

AENC-ARC-ENV-REP-0155

Norwich to Tilbury

Volume 6: Environmental Statement

Document: 6.8.A8 Environmental Statement Appendix 8.8 - Wintering
and Passage Bird Report - Clean Version - Part 2 of 4

Final Issue B

July 2026

Planning Inspectorate Reference: EN020027

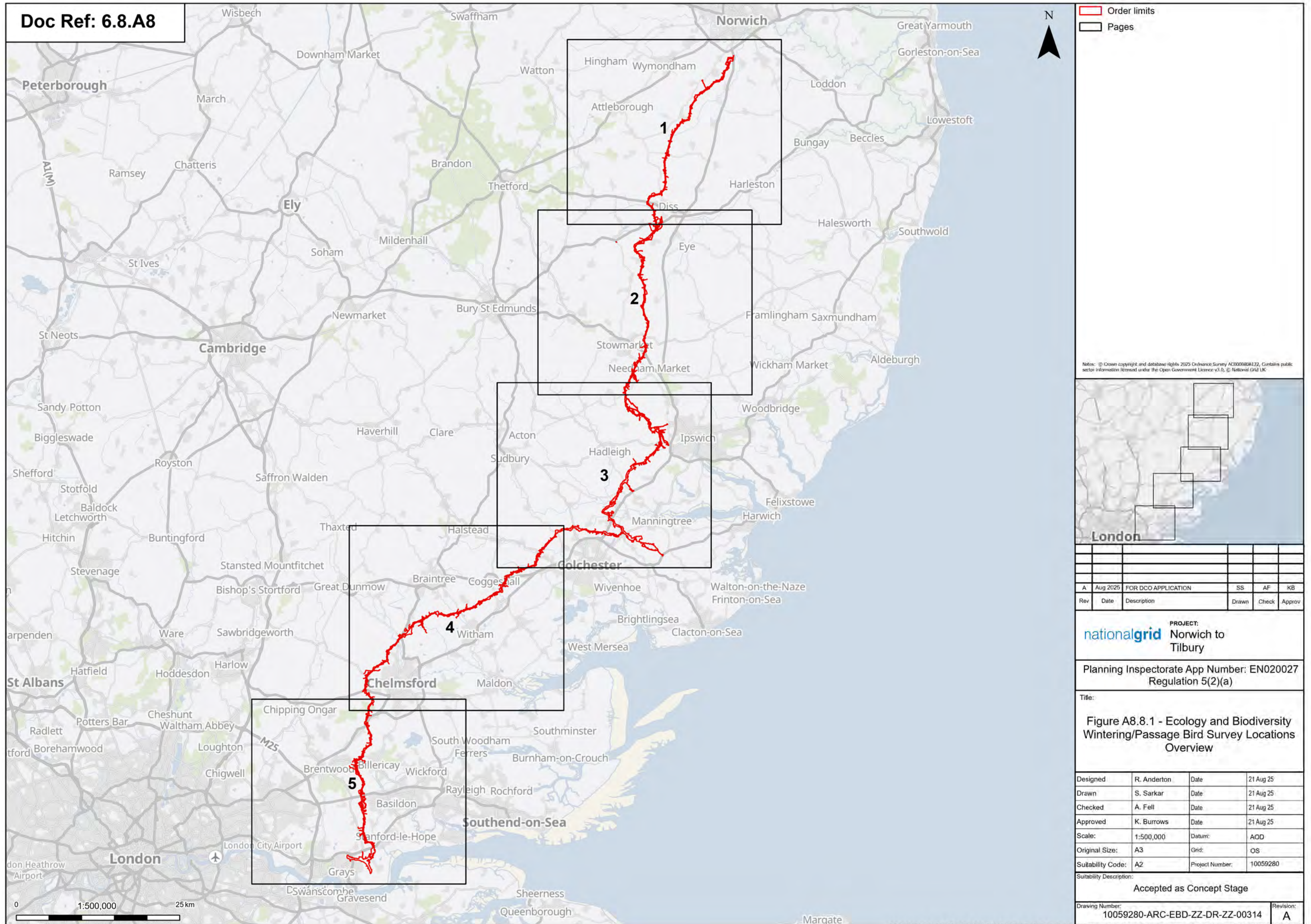
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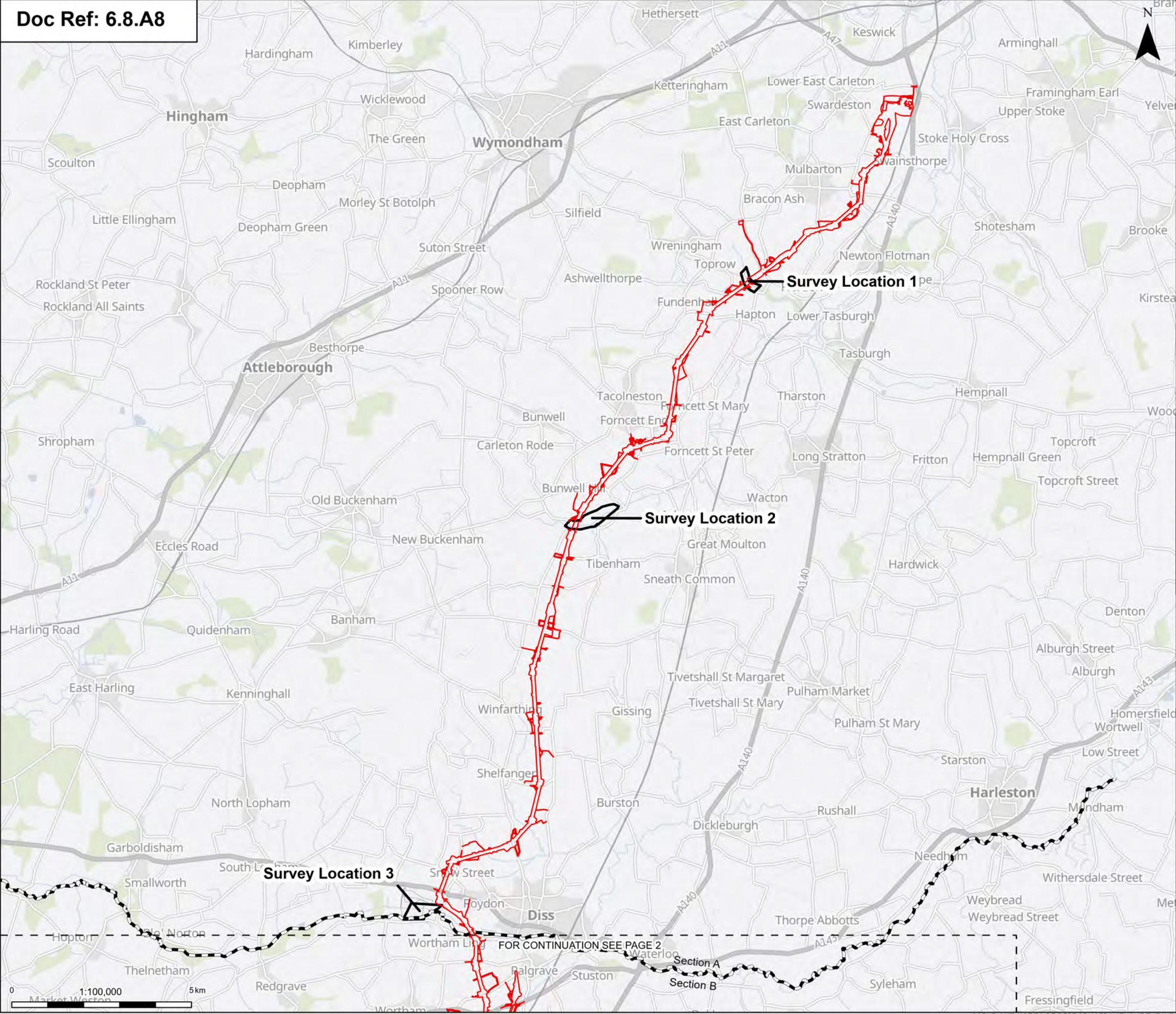
nationalgrid

Appendix A.

Figures

See parts 2 to 4





Order limits

Sheet index cutline

Project section line

Discipline specific constraints

Vantage Point (VP)

Note: 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 2025	FOR DCO APPLICATION	SS	AF	KB
Rev	Date	Description	Drawn	Check	Approved

PROJECT:
nationalgrid Norwich to
Tilbury

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

Title:

Figure A8.8.1 - Ecology and Biodiversity
Wintering/Passage Bird Survey Locations
Page 1 of 5

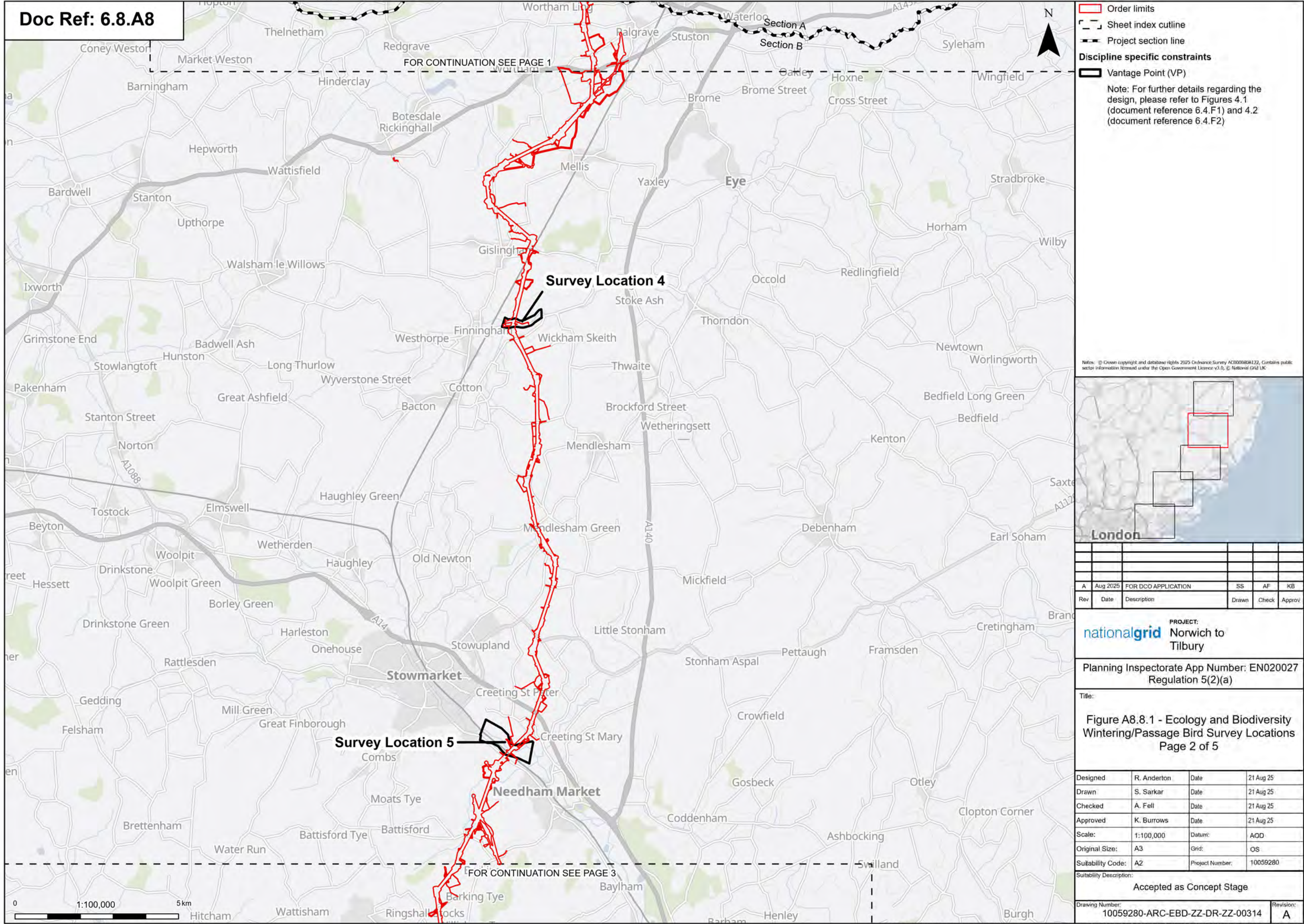
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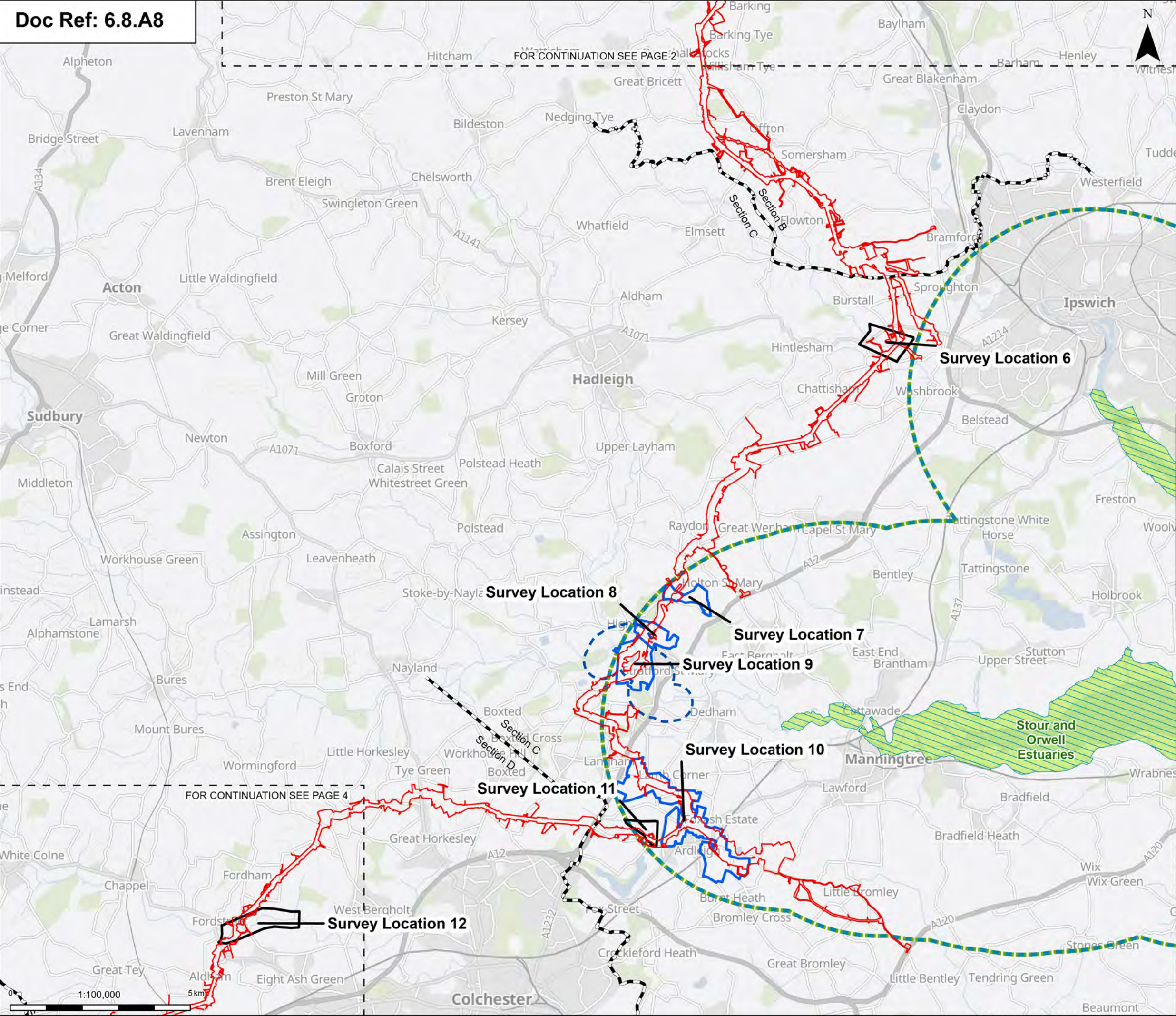
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Order limits

Sheet index cutline

Project section line

Discipline specific constraints

- Vantage Point (VP)
- Transect
- 500 m Study Area - River Stour
- Special Protection Area
- Ramsar
- Special Protection Area 5 km Study Area
- Ramsar 5 km Study Area

Note: 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:

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Title:

Figure A8.8.1 - Ecology and Biodiversity
Wintering/Passage Bird Survey Locations
Page 3 of 5

Designed	R. Anderton	Date	21 Aug 25
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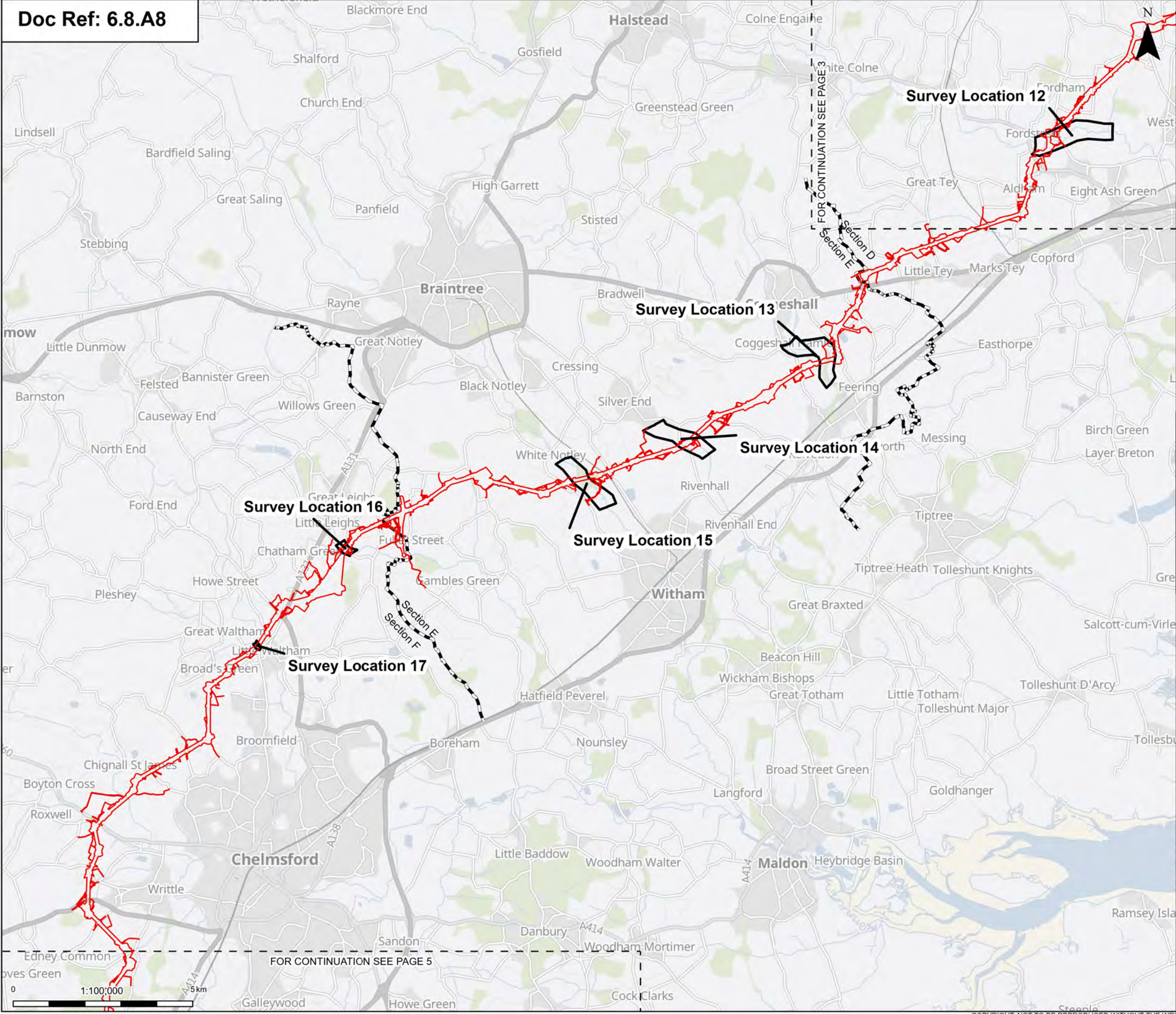
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Order limits

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Project section line

Discipline specific constraints

Vantage Point (VP)

Note: 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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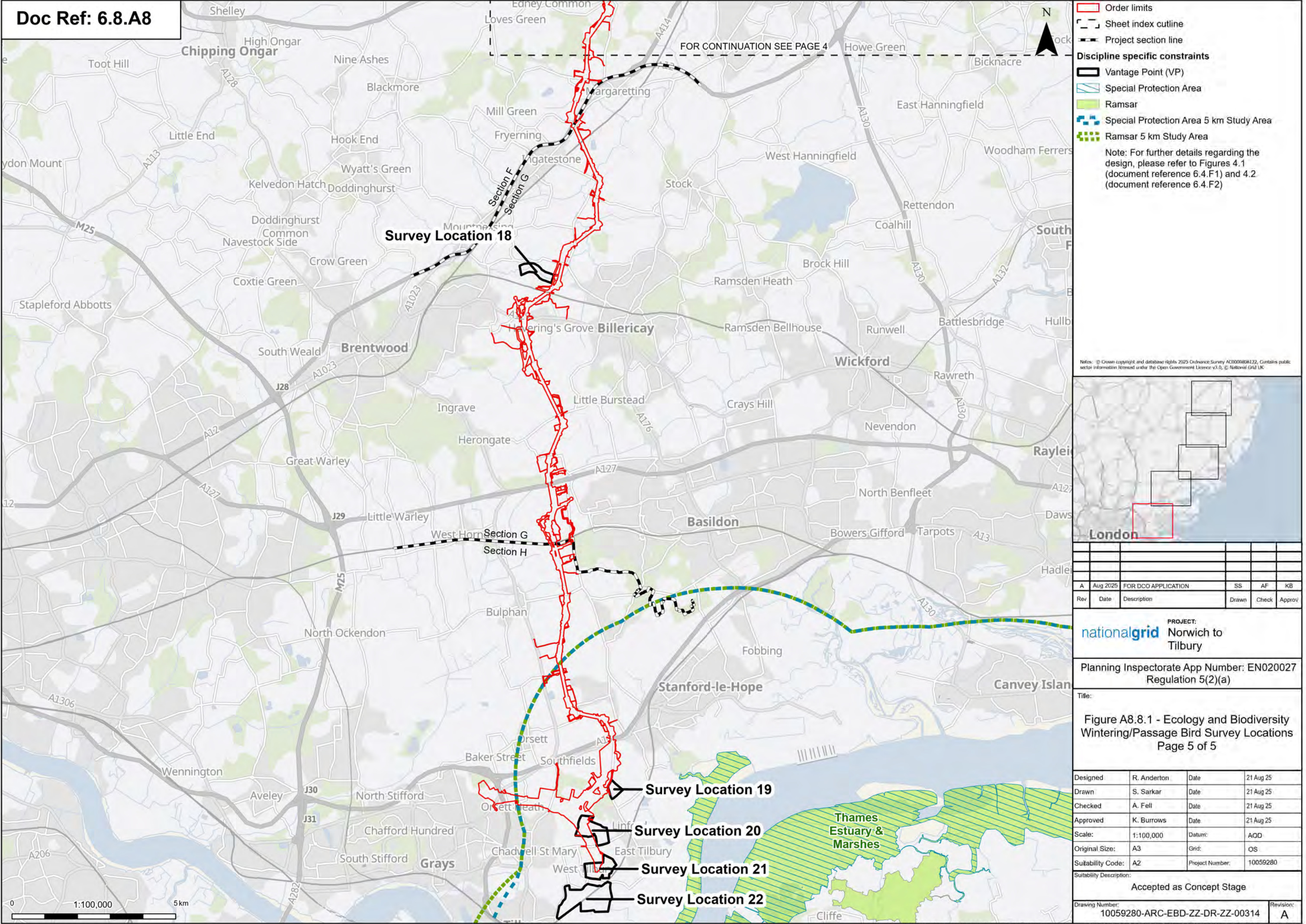
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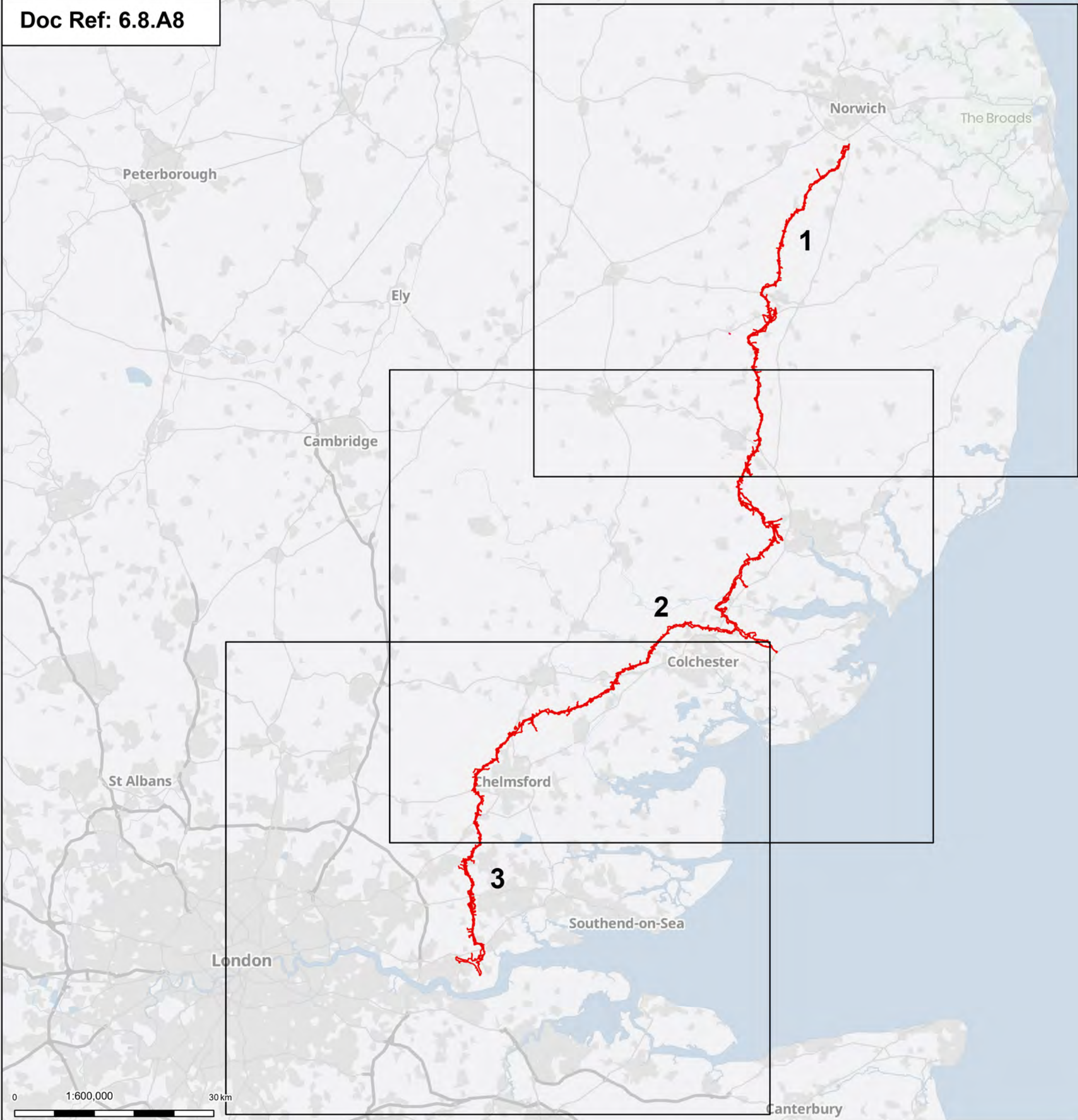
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Wintering/Passage Bird Survey Locations
Page 4 of 5**

Designed	R. Anderton	Date	21 Aug 25
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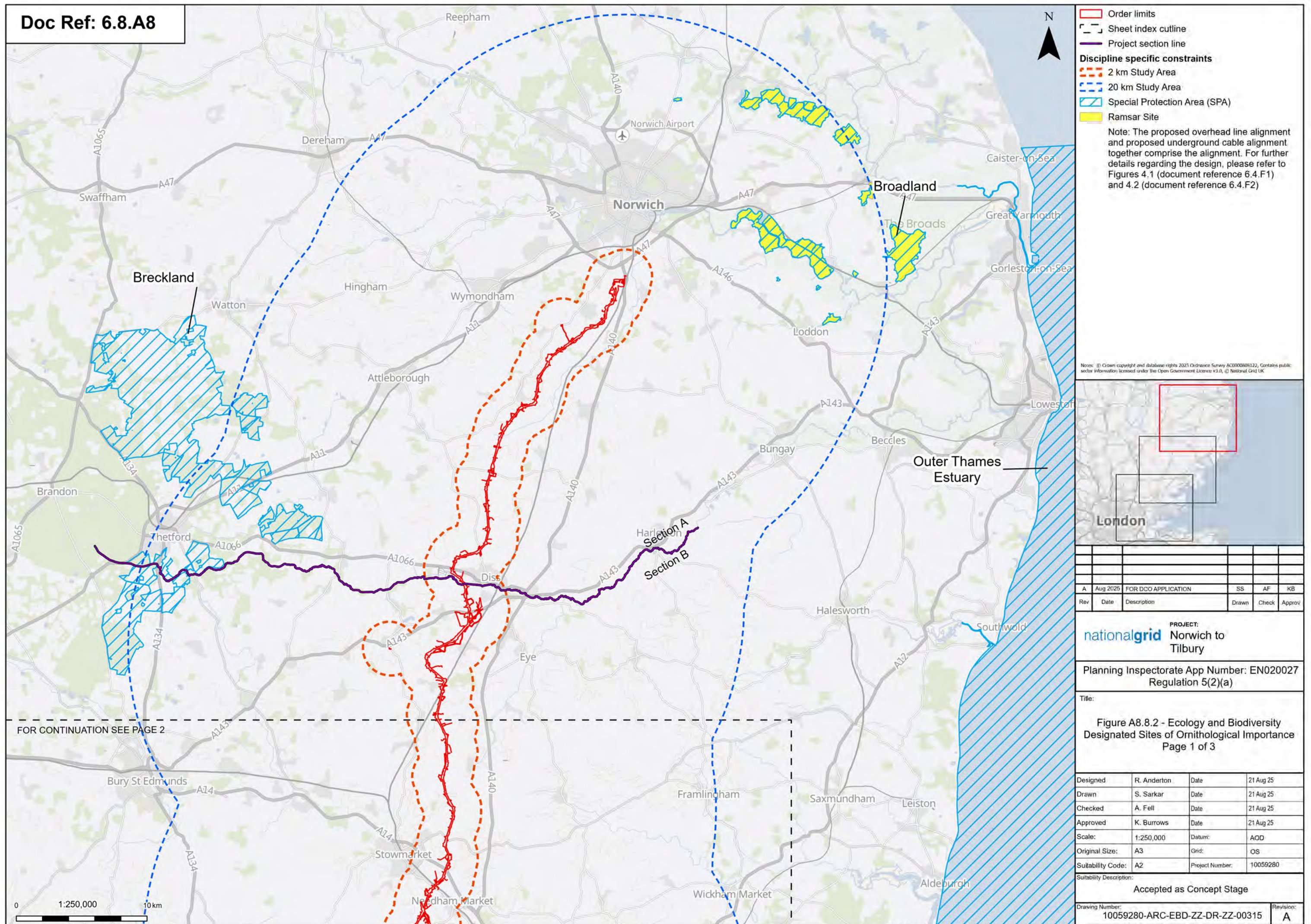
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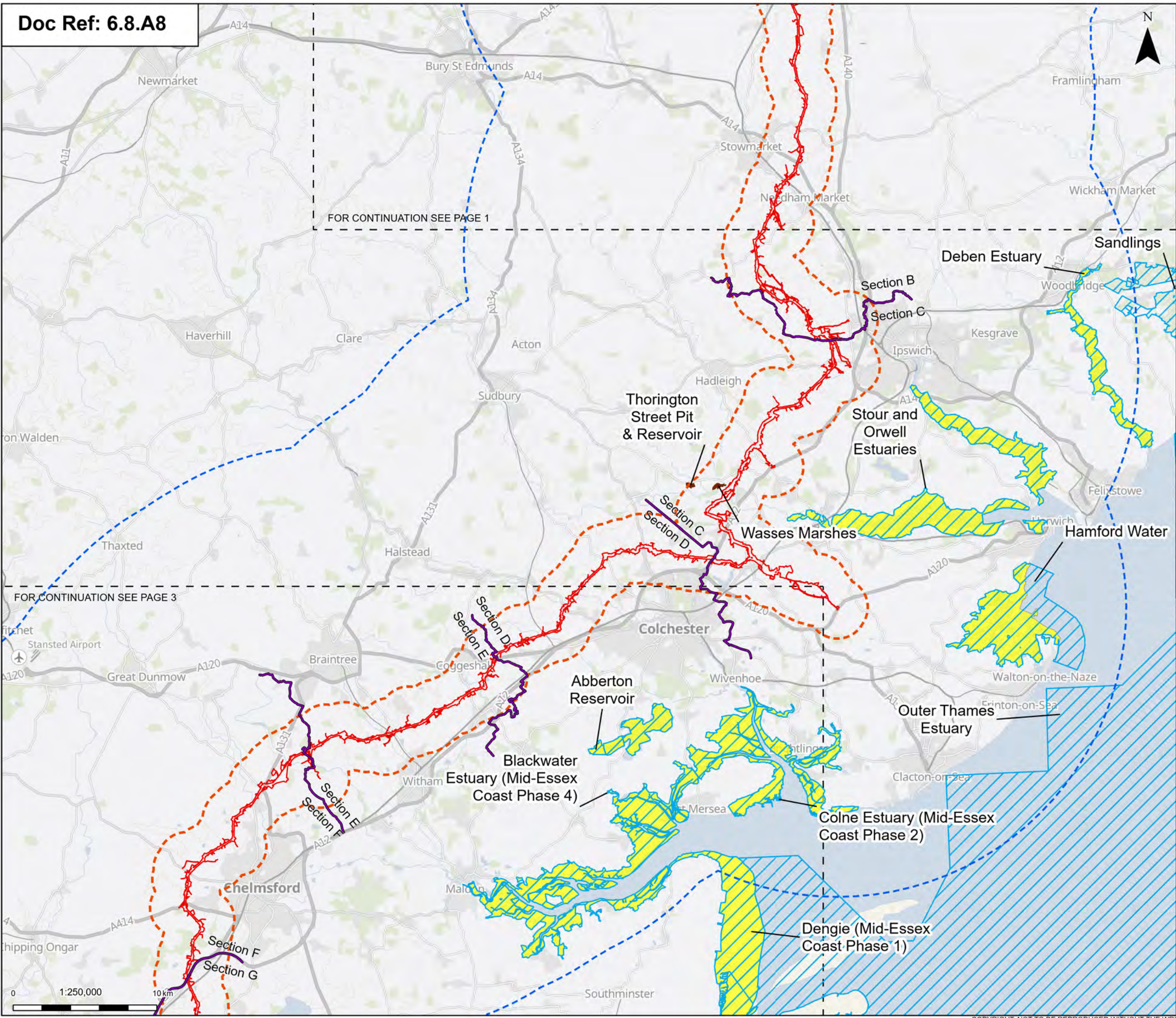
Figure A8.8.2 - Ecology and Biodiversity
Designated Sites of Ornithological Importance
Overview

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Order limits

Sheet index outline

Project section line

Discipline specific constraints

- 2 km Study Area
- 20 km Study Area
- County Wildlife Site (CWS)
- Special Protection Area (SPA)
- Ramsar Site

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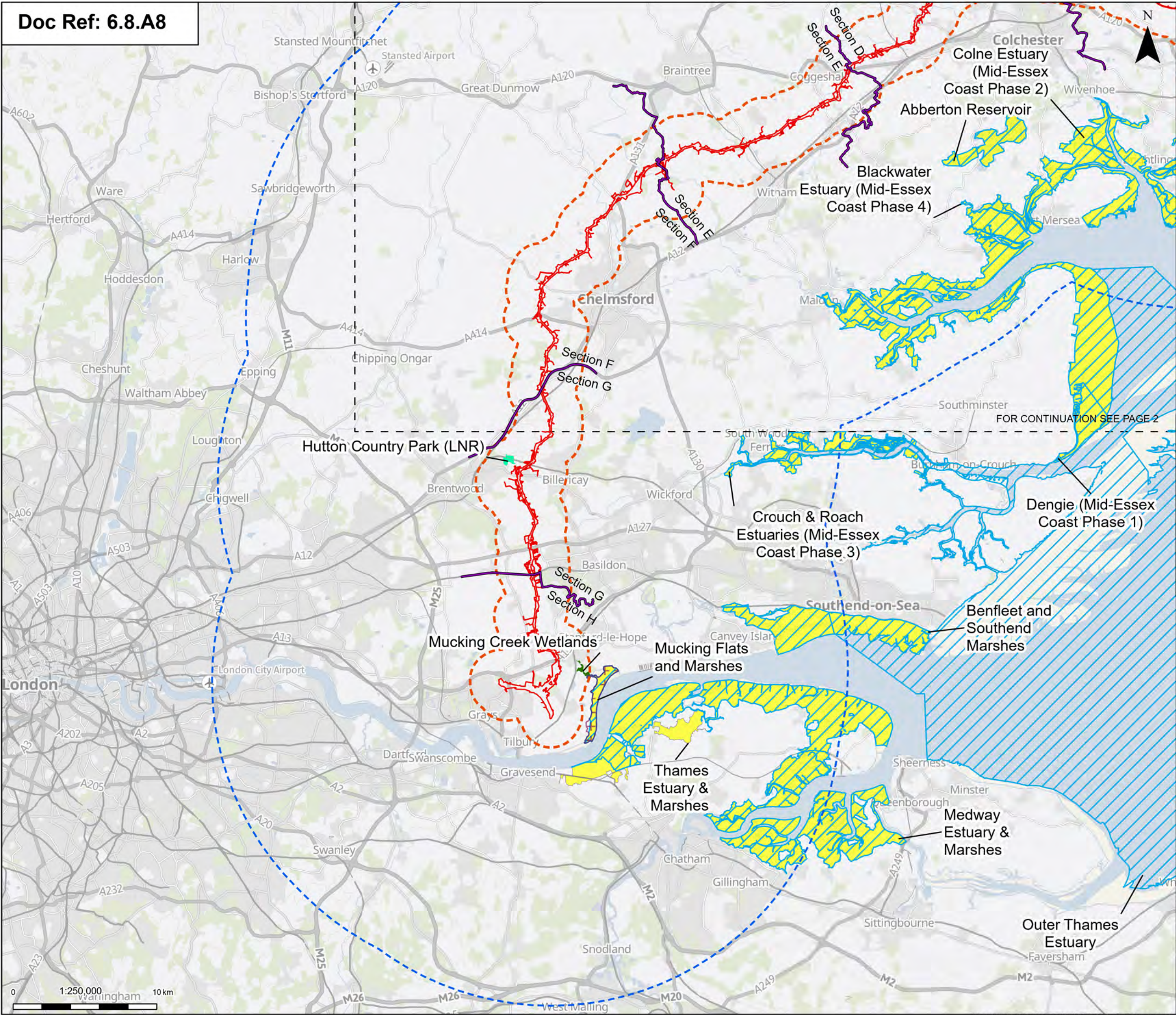
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

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Figure A8.8.2 - Ecology and Biodiversity
Designated Sites of Ornithological Importance
Page 2 of 3

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Order limits

Sheet index outline

Project section line

Discipline specific constraints

2 km Study Area

20 km Study Area

Local Nature Reserve (LNR)

Local Wildlife Site (LWS)

Site of Special Scientific Interest (SSSI)

Special Protection Area (SPA)

Ramsar Site

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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London

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Norwich to Tilbury

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Regulation 5(2)(a)

Title:

Figure A8.8.2 - Ecology and Biodiversity
Designated Sites of Ornithological Importance
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Designed	R. Anderton	Date	21 Aug 25
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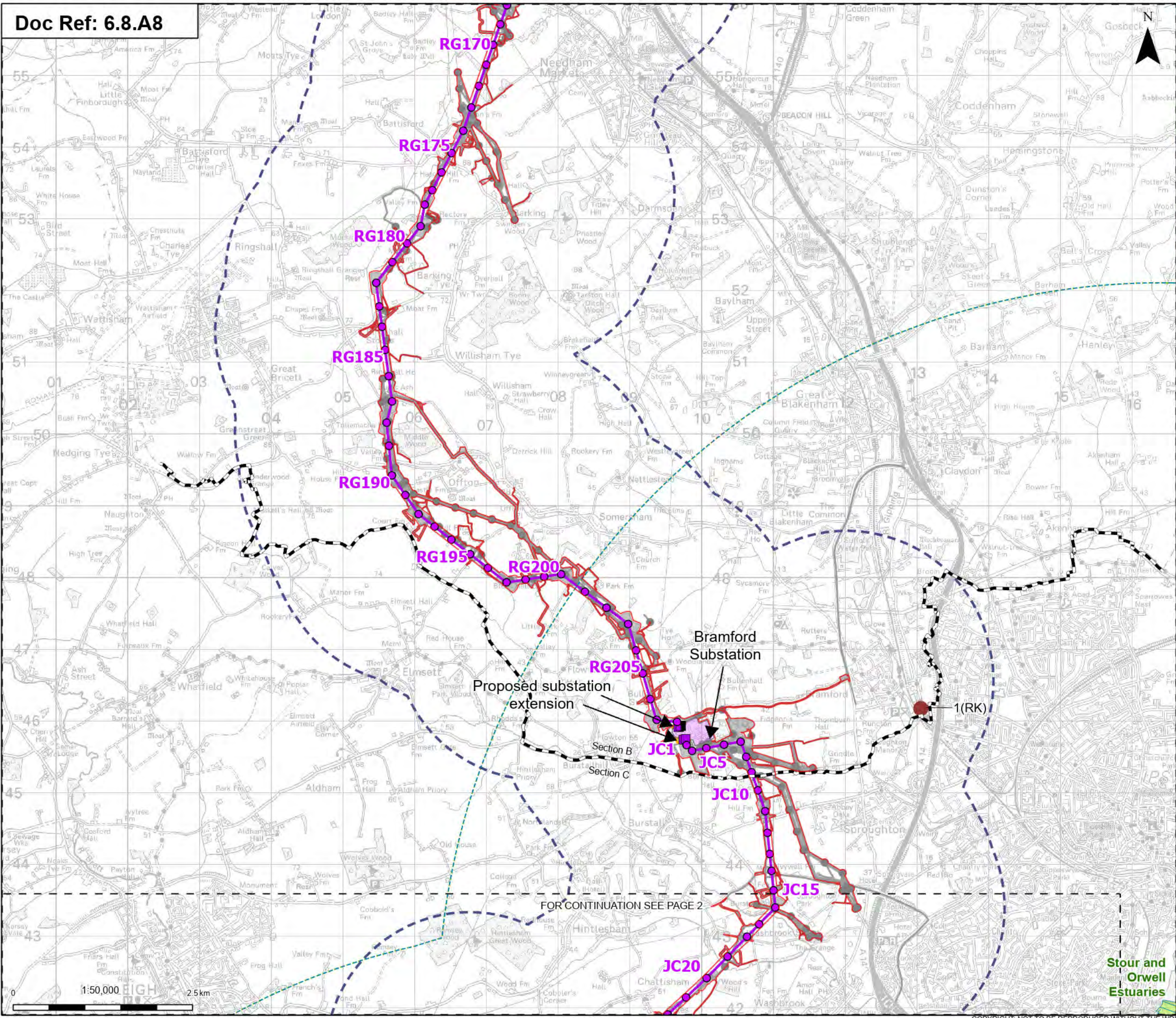
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Order limits

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

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Special Protection Areas

Ramsar

Special Protection Areas 10 km Study Area

Ramsar 10 km Study Area

Stour and Orwell Estuaries SPA qualifying species total abundance (desk study data 2013-2022)

Black-tailed Godwit (BW)

Dunlin (DN)

Grey Plover (GV)

Knot (KN)

Redshank (RK)

Pintail (PT)

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

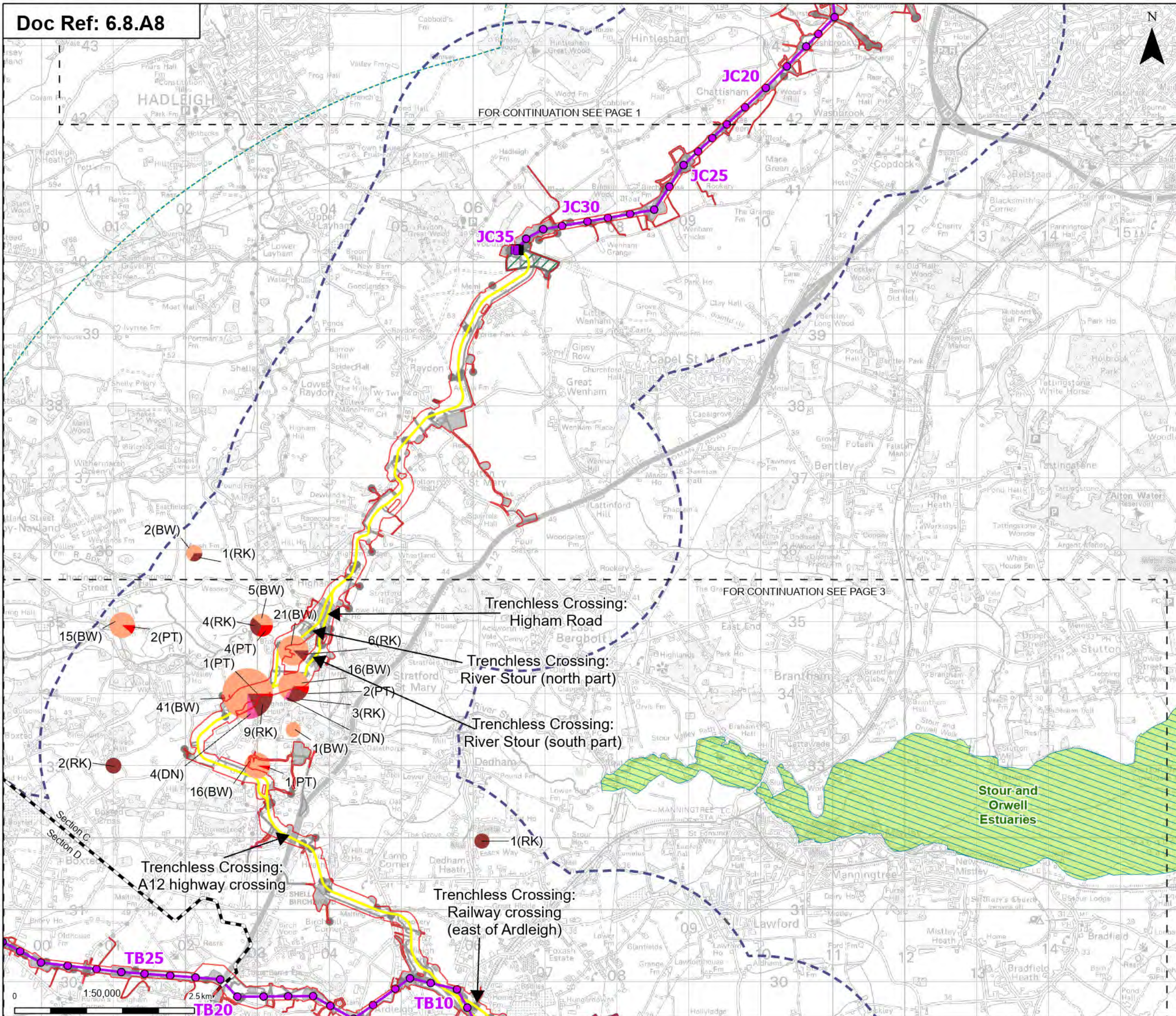
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Title:
Figure A8.8.3 - Ecology and Biodiversity
Distribution of SPA / Ramsar Qualifying Features
Desk Study Data -Stour and Orwell Estuaries
Page 1 of 5

Designed	R. Anderton	Date	21 Aug 25
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Order limits

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Project section line

Proposed project design details

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

Discipline specific constraints

- 2 km Study Area
- Special Protection Areas
- Ramsar
- Special Protection Areas 10 km Study Area
- Ramsar 10 km Study Area

Stour and Orwell Estuaries SPA qualifying species total abundance (desk study data 2013-2022)

- Black-tailed Godwit (BW)
- Dunlin (DN)
- Grey Plover (GV)
- Knot (KN)
- Redshank (RK)
- Pintail (PT)

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

Cambridge

Ipswich

Chelmsford

London

Tilbury

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PROJECT: **Norwich to Tilbury**

nationalgrid

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

Title: **Figure A8.8.3 - Ecology and Biodiversity Distribution of SPA / Ramsar Qualifying Features Desk Study Data -Stour and Orwell Estuaries**
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Designed	R. Anderton	Date	21 Aug 25
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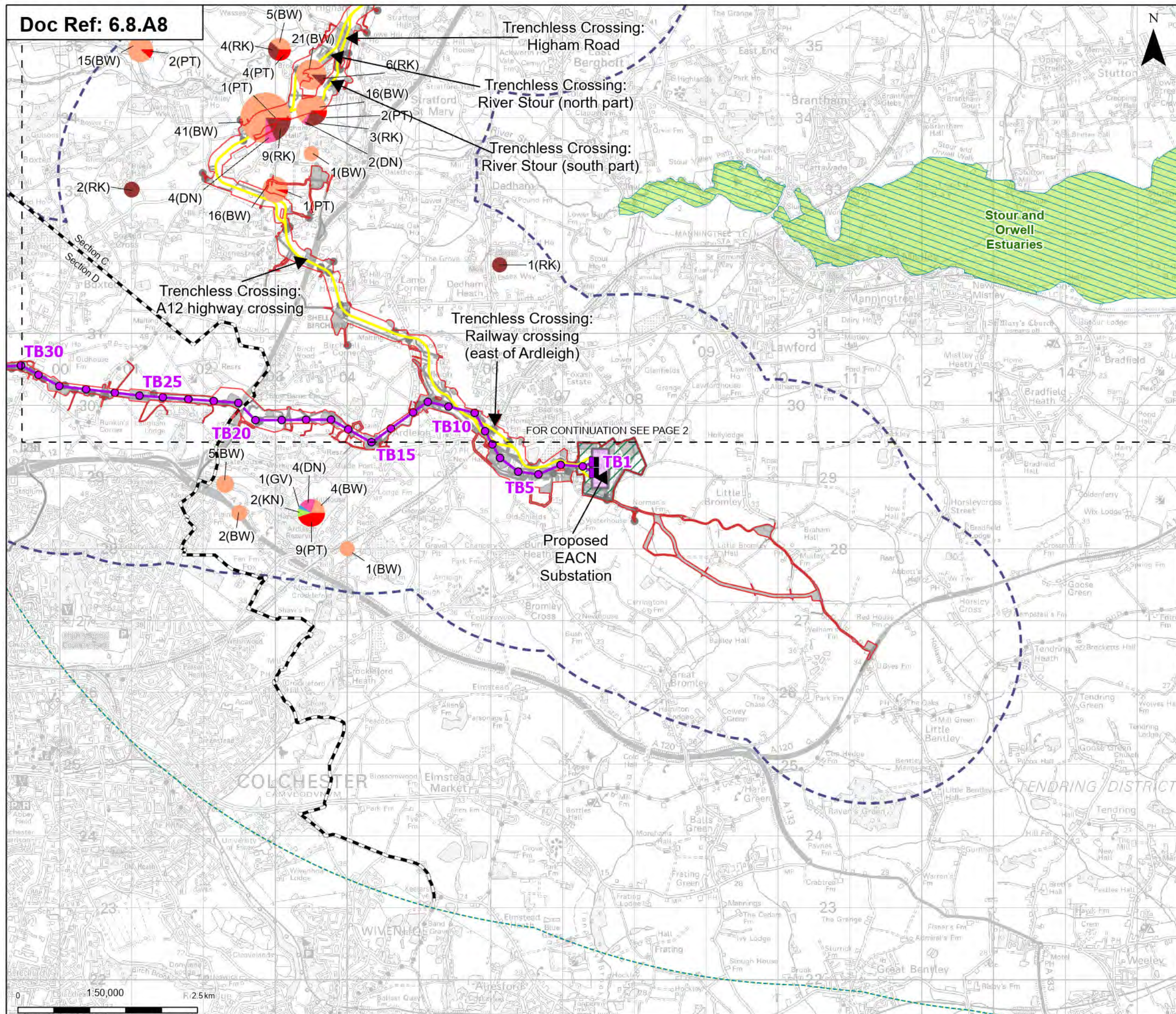
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Legend

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- Sheet index cutline
- Project section line

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
- Special Protection Areas
- Ramsar
- Special Protection Areas 10 km Study Area
- Ramsar 10 km Study Area

Stour and Orwell Estuaries SPA qualifying species total abundance (desk study data 2013-2022)

- Black-tailed Godwit (BW)
- Dunlin (DN)
- Grey Plover (GV)
- Knot (KN)
- Redshank (RK)
- Pintail (PT)

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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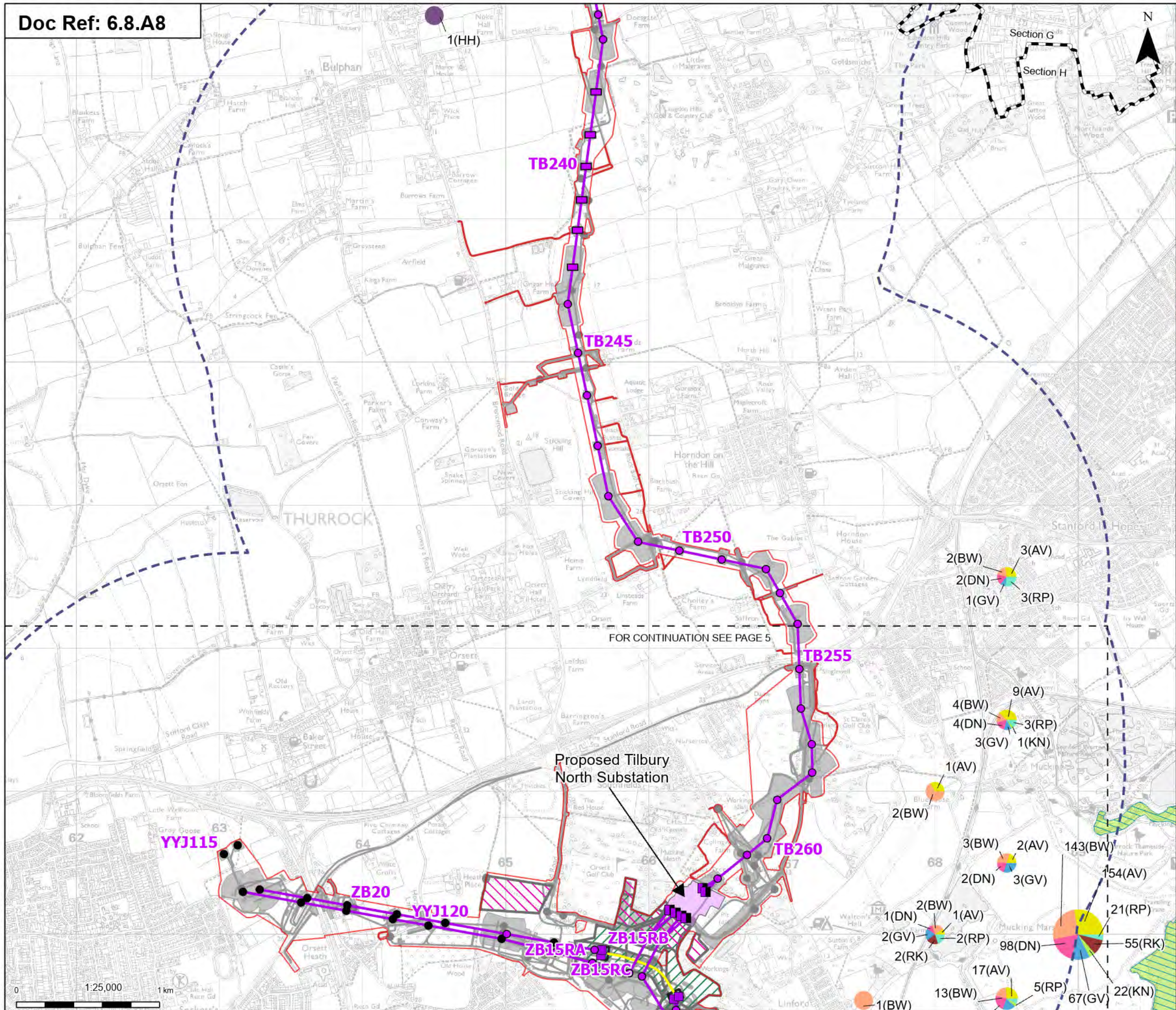
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Regulation 5(2)(a)

Title: Figure A8.8.3 - Ecology and Biodiversity
Distribution of SPA / Ramsar Qualifying Features
Desk Study Data - Stour and Orwell Estuaries
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Order limits

- Sheet index outline
- Project section line

Proposed project design details

- Proposed full line tension gantry
- Proposed low duty gantry
- Proposed low height pylon location
- 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
- Special Protection Areas
- Ramsar
- Special Protection Areas 10 km Study Area
- Ramsar 10 km Study Area

Thames Estuary and Marshes SPA qualifying species total abundance (desk study data 2013-2022)

- Avocet (AV)
- Black-tailed Godwit (BW)
- Dunlin (DN)
- Grey Plover (GV)
- Hen Harrier (HH)
- Knot (KN)
- Redshank (RK)
- Ringed Plover (RP)

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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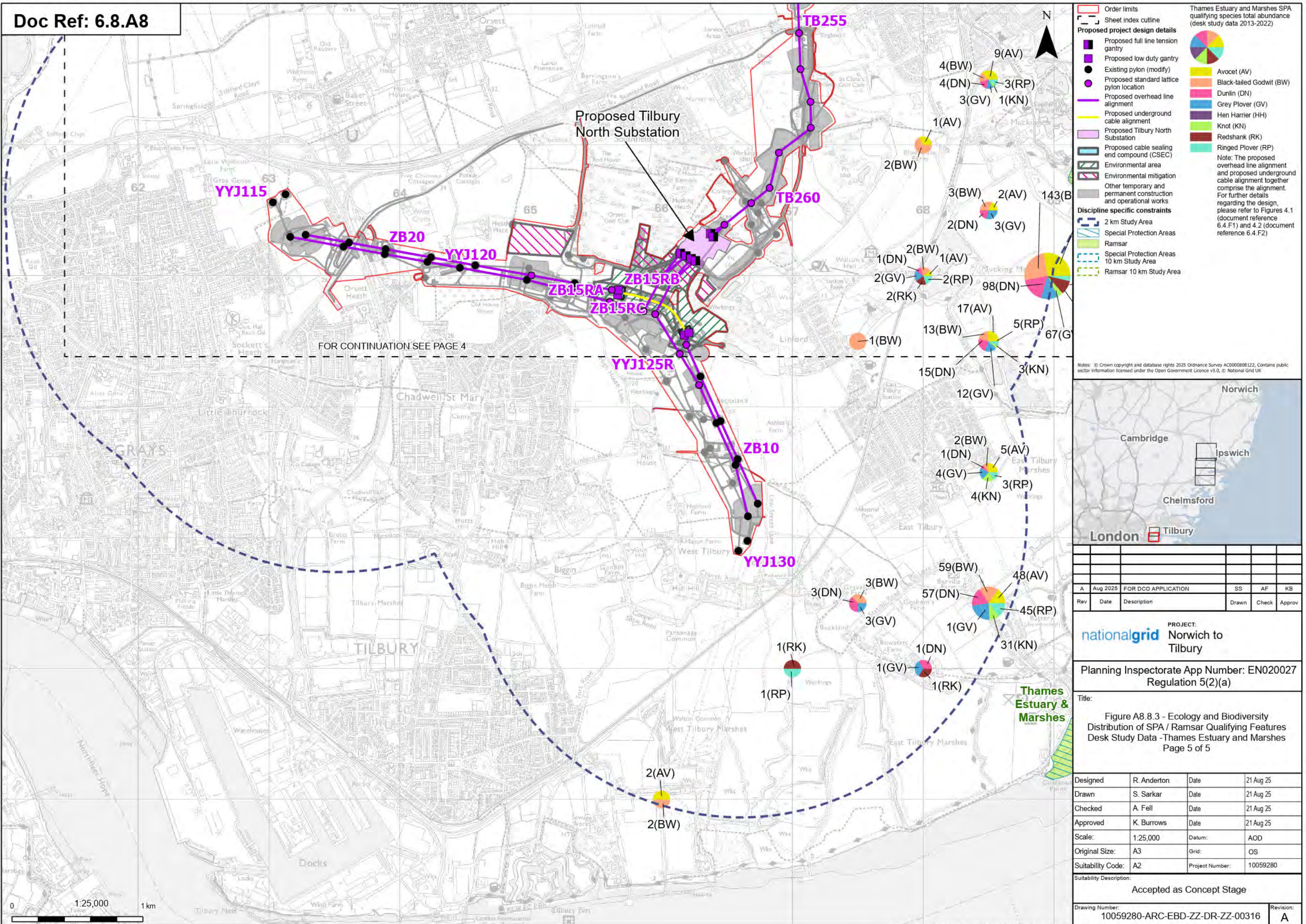
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Figure A8.8.3 - Ecology and Biodiversity
Distribution of SPA / Ramsar Qualifying Features
Desk Study Data -Thames Estuary and Marshes
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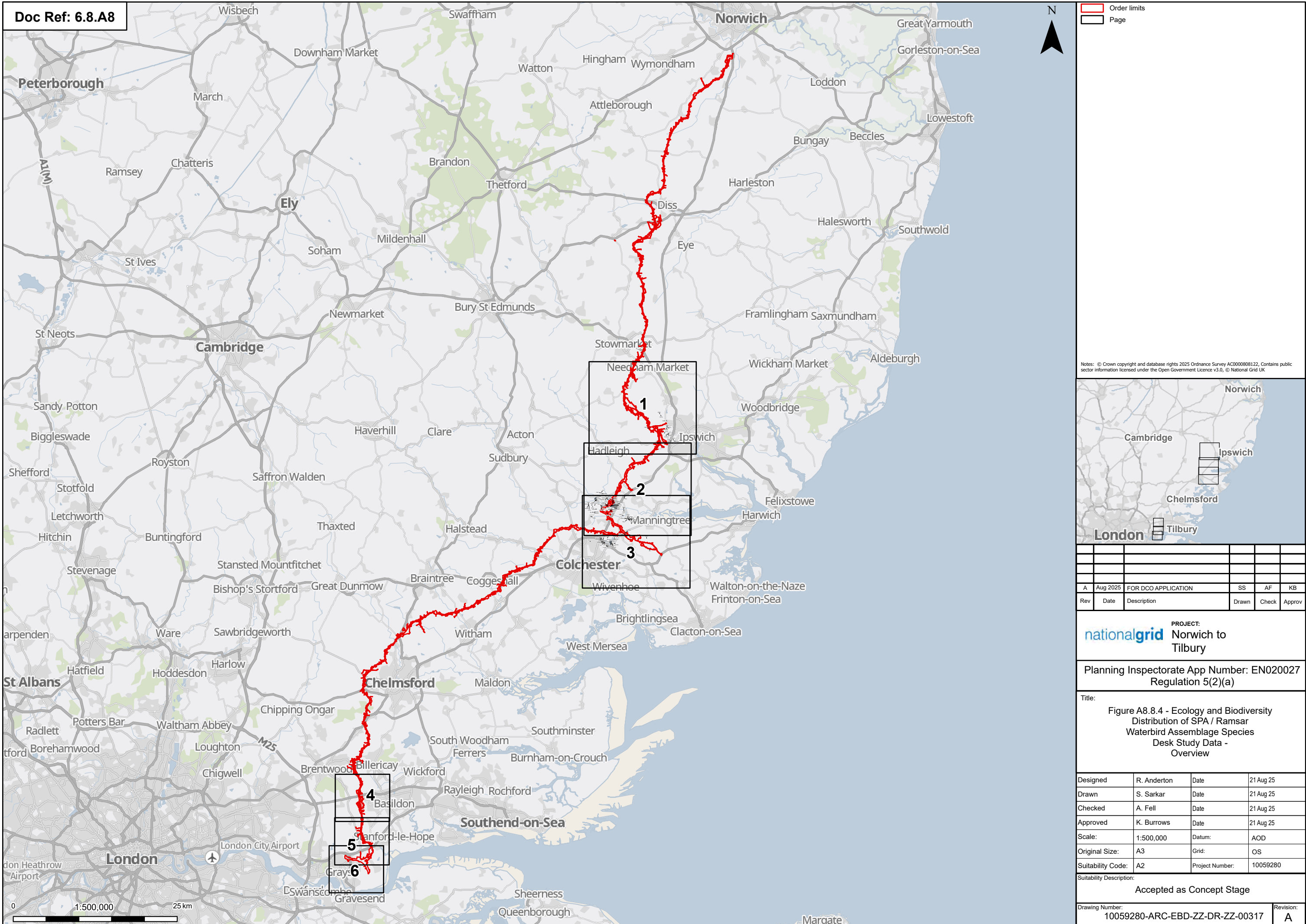
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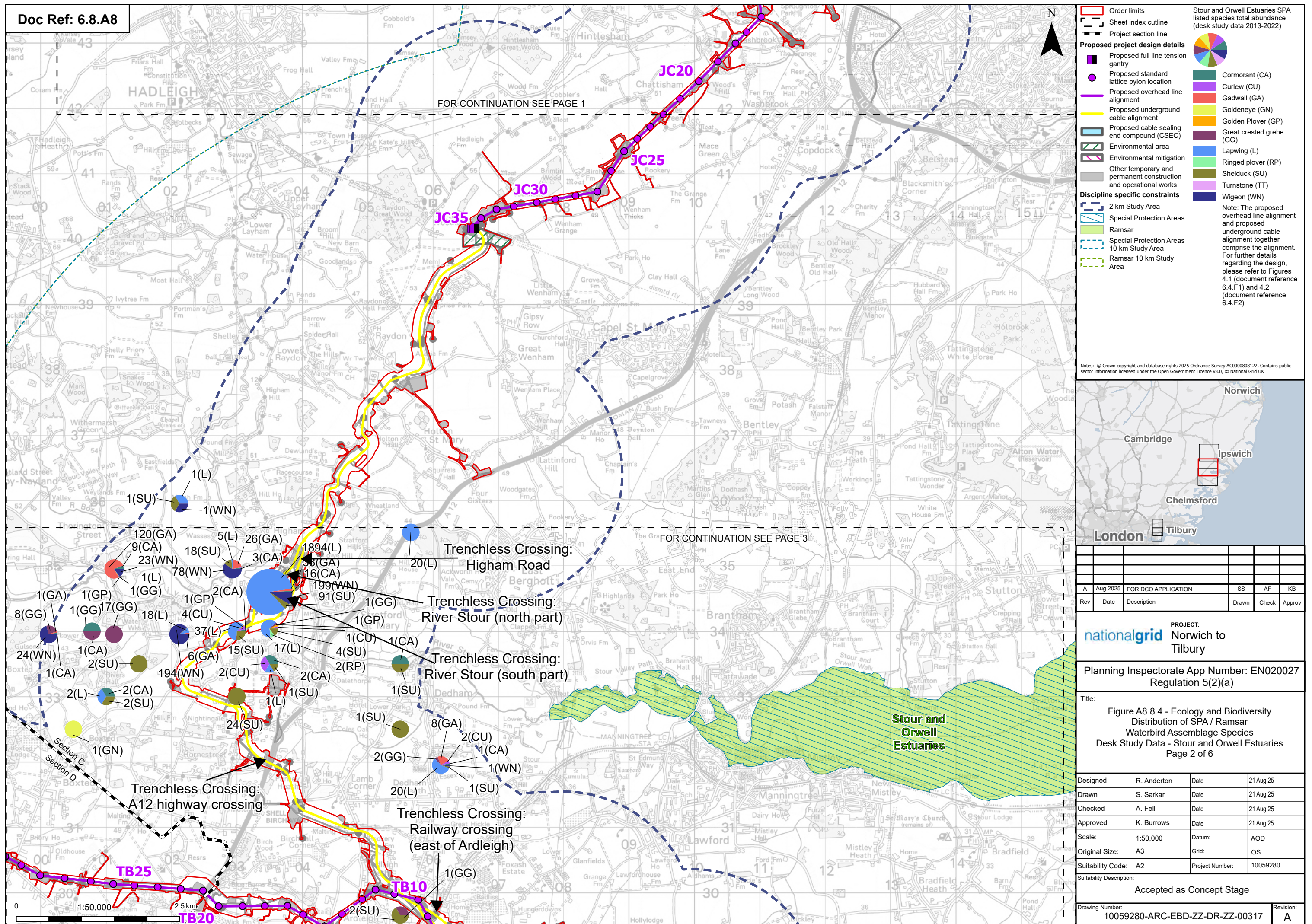
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Distribution of SPA / Ramsar Qualifying Features
Desk Study Data -Thames Estuary and Marshes
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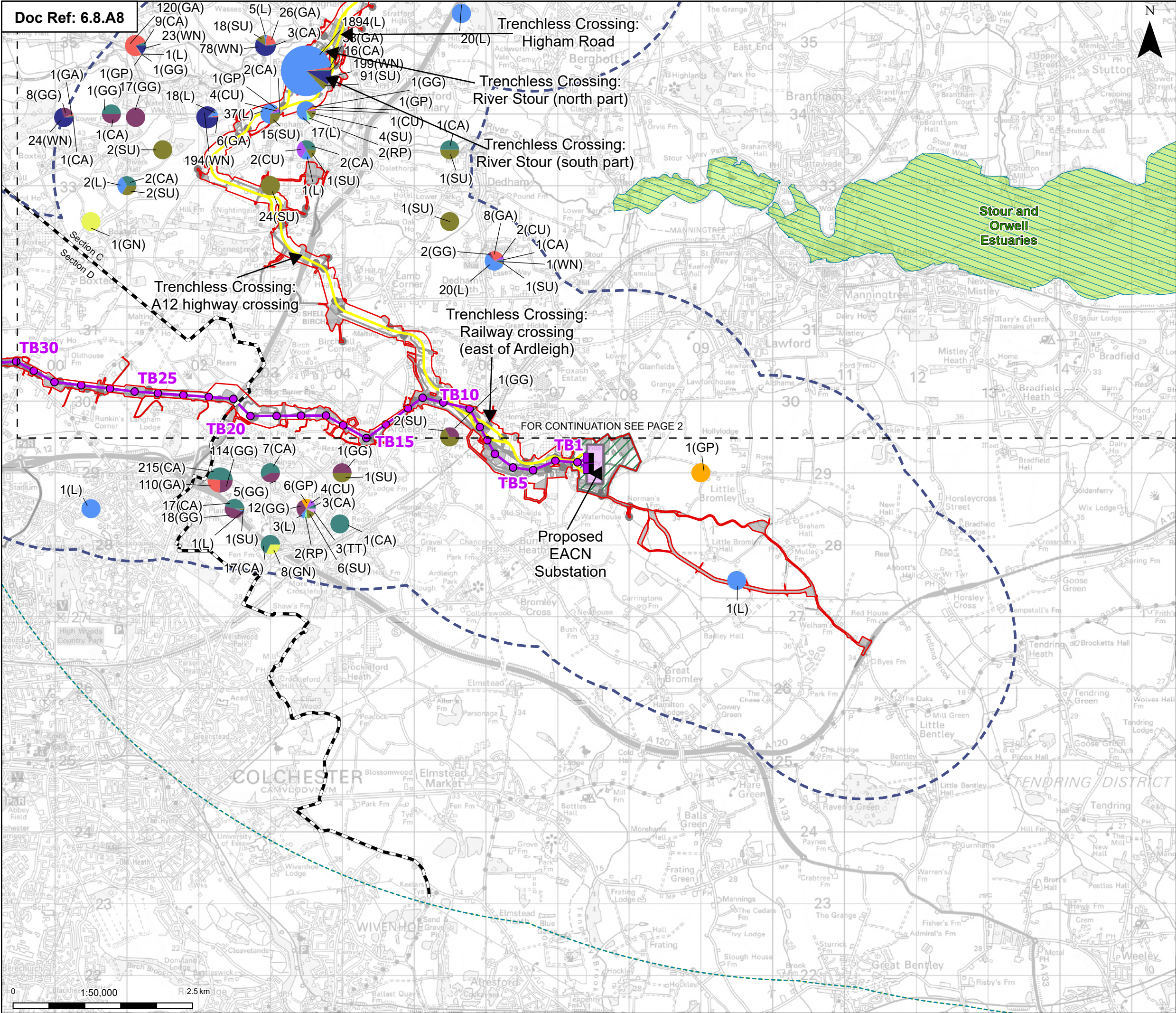
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Order limits

Sheet index outline

Project section line

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
- Special Protection Areas
- Ramsar
- Special Protection Areas 10 km Study Area
- Ramsar 10 km Study Area

Stour and Orwell Estuaries SPA listed species total abundance (desk study data 2013-2022)

Cormorant (CA)	Goldeneye (GN)
Curlew (CU)	Golden Plover (GP)
Gadwall (GA)	Great crested grebe (GG)
Lapwing (L)	Ringed plover (RP)
Shelduck (SU)	Turnstone (TT)
Widgeon (WN)	

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 6.4.F1 and 6.4.F2 (document reference 6.4.F1 and 6.4.F2)

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Map of the region showing the project location relative to Norwich, Cambridge, Ipswich, Chelmsford, and London.

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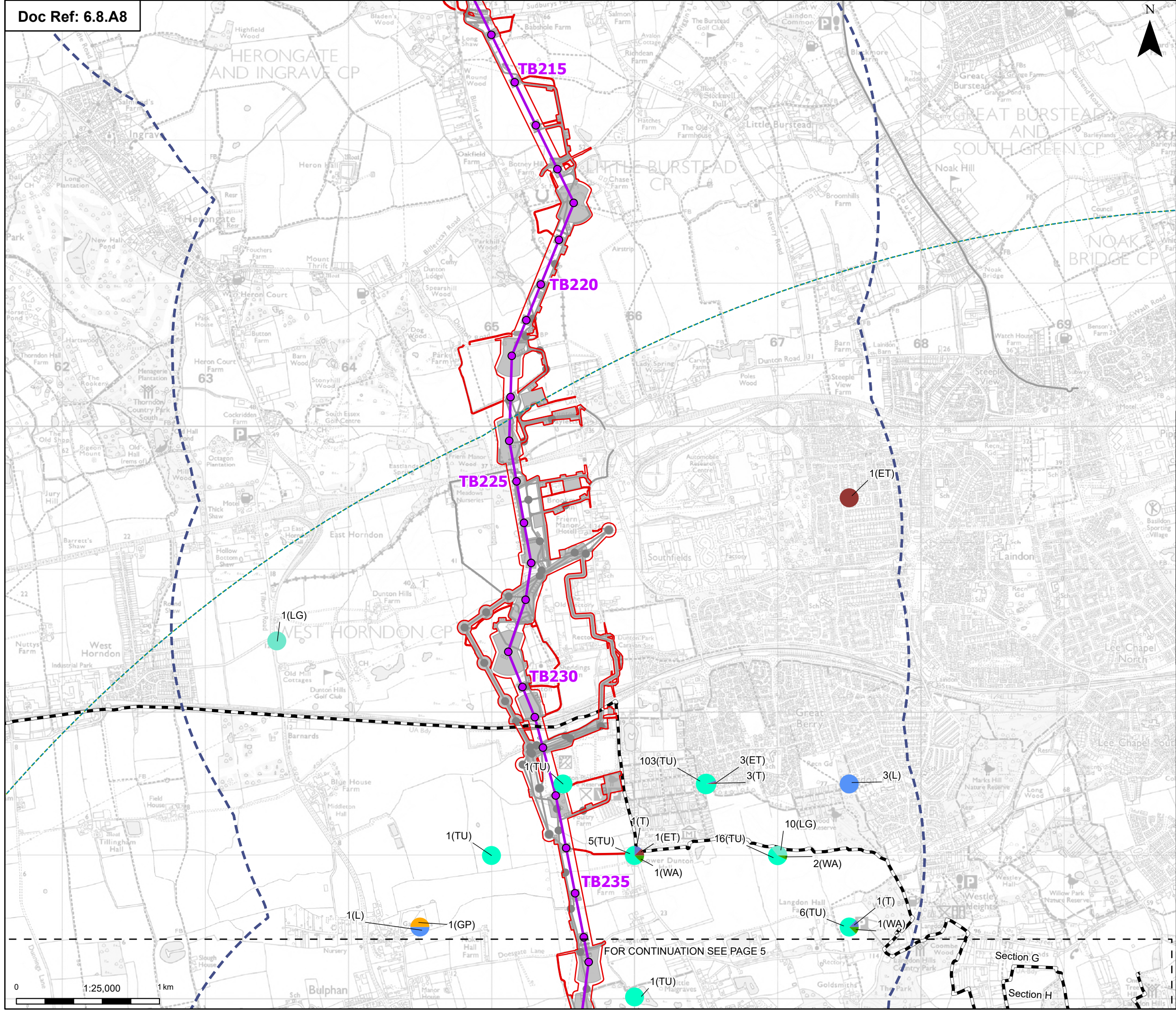
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Title: **Figure A8.8.4 - Ecology and Biodiversity Distribution of SPA / Ramsar Waterbird Assemblage Species Desk Study Data - Stour and Orwell Estuaries Page 3 of 6**

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Order limits

Sheet index outline

Project section line

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

Special Protection Areas

10 km Study Area

Ramsar 10 km Study Area

Thames Estuary and Marshes SPA listed species total abundance (desk study data 2013-2022)

Gadwall (GA)

Greenshank (GK)

Golden Plover (GP)

Lapwing (L)

Little Egret (ET)

Little Grebe (LG)

Pintail (PT)

Pochard (PO)

Ruff (RU)

Shelduck (SU)

Shoveler (SV)

Spotted Redshank (DR)

Teal (T)

Tufted Duck (TU)

Water Rail (WA)

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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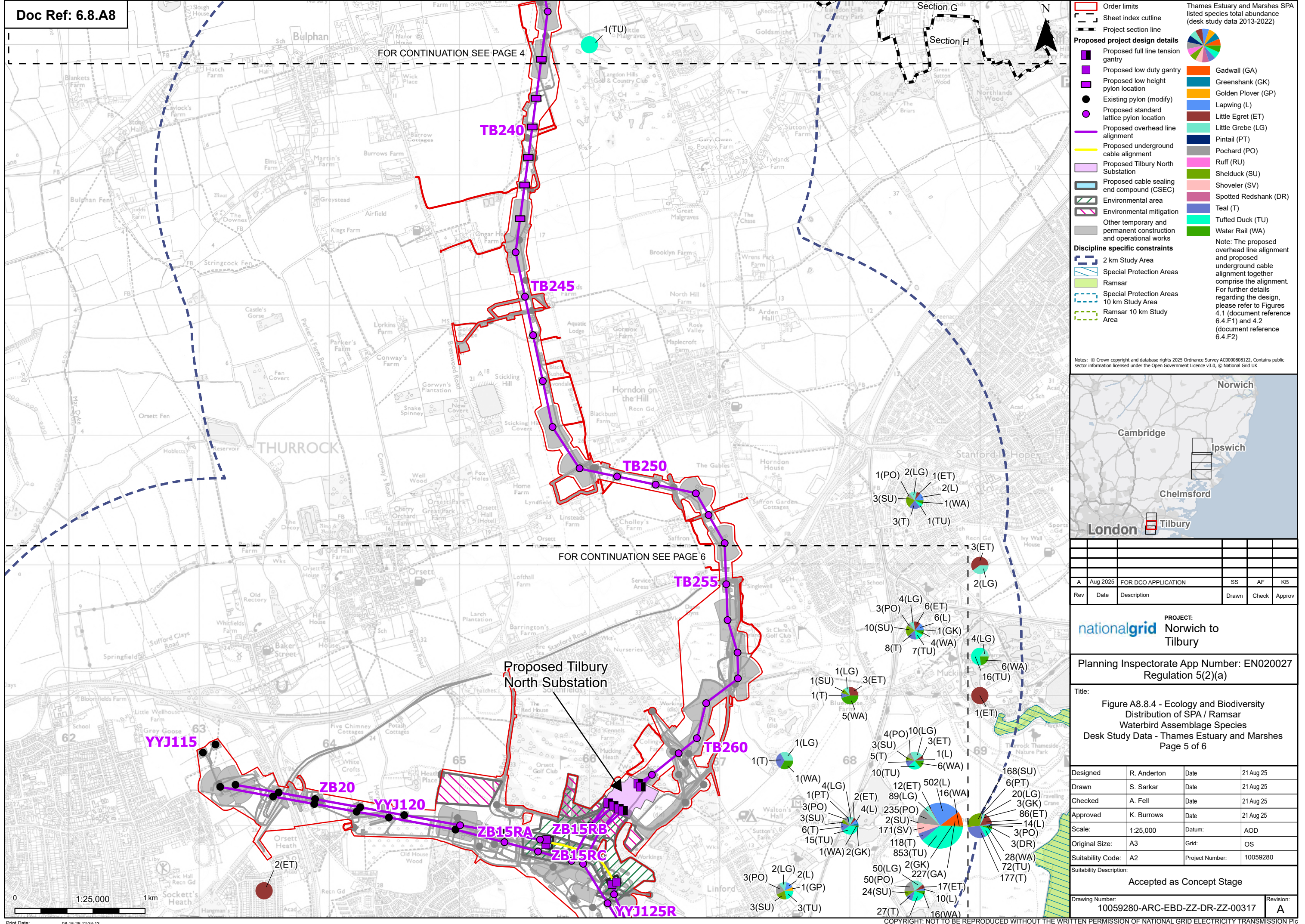
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Distribution of SPA / Ramsar
Waterbird Assemblage Species
Desk Study Data - Thames Estuary and Marshes
Page 4 of 6

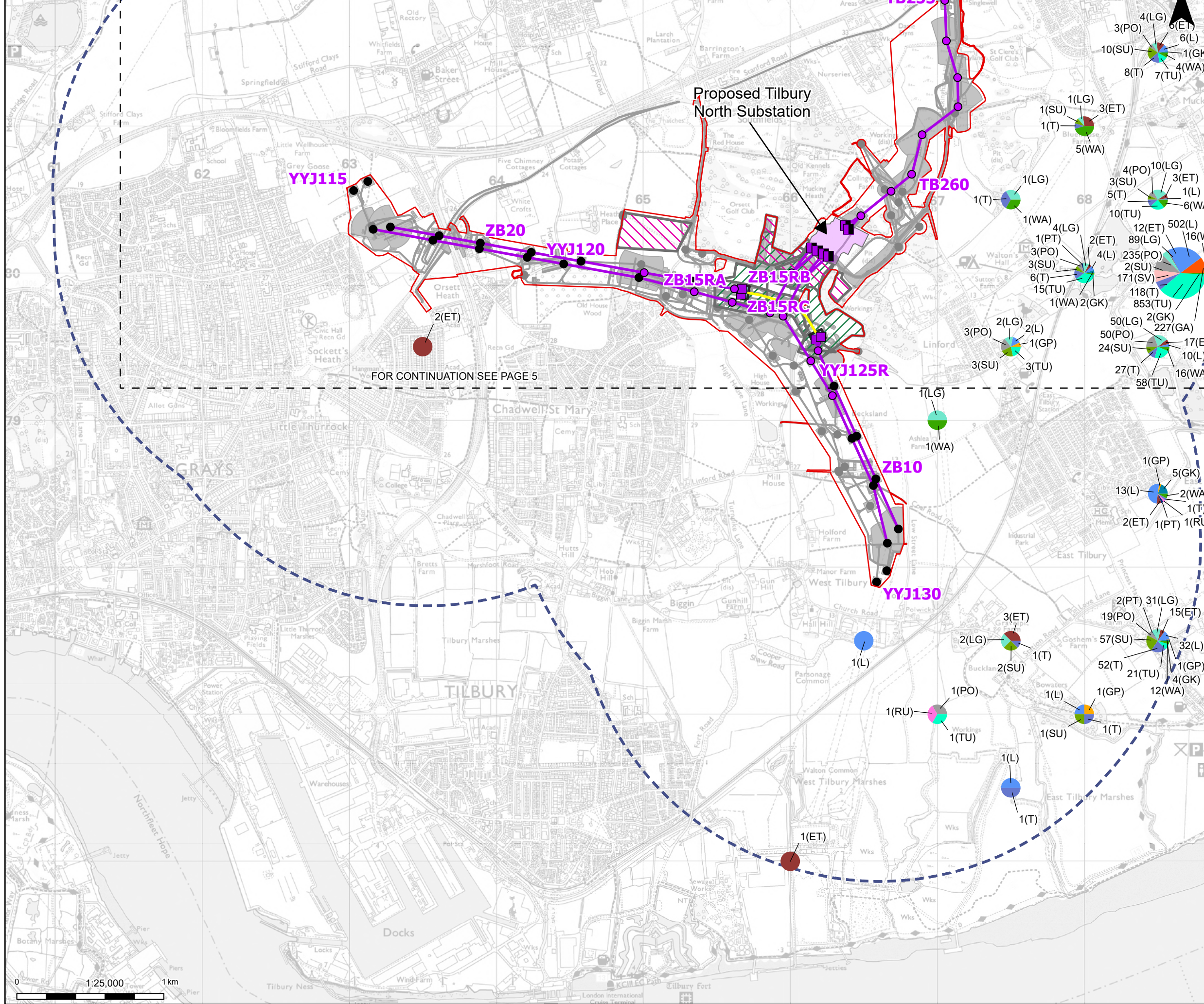
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Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280
Suitability Description:			

Accepted as Concept Stage

Drawing Number:	Revision:
10059280-ARC-EBD-ZZ-DR-ZZ-00317	A

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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
- Special Protection Areas 10 km Study Area
- Ramsar 10 km Study Area

Thames Estuary and Marshes SPA listed species total abundance (desk study data 2013-2022)

Species	Abundance
Gadwall (GA)	1
Greenshank (GK)	1
Golden Plover (GP)	1
Lapwing (L)	1
Little Egret (ET)	1
Little Grebe (LG)	1
Pintail (PT)	1
Pochard (PO)	1
Ruff (RU)	1
Shelduck (SU)	1
Shoveler (SV)	1
Spotted Redshank (DR)	1
Teal (T)	1
Tufted Duck (TU)	1
Water Rail (WA)	1

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)

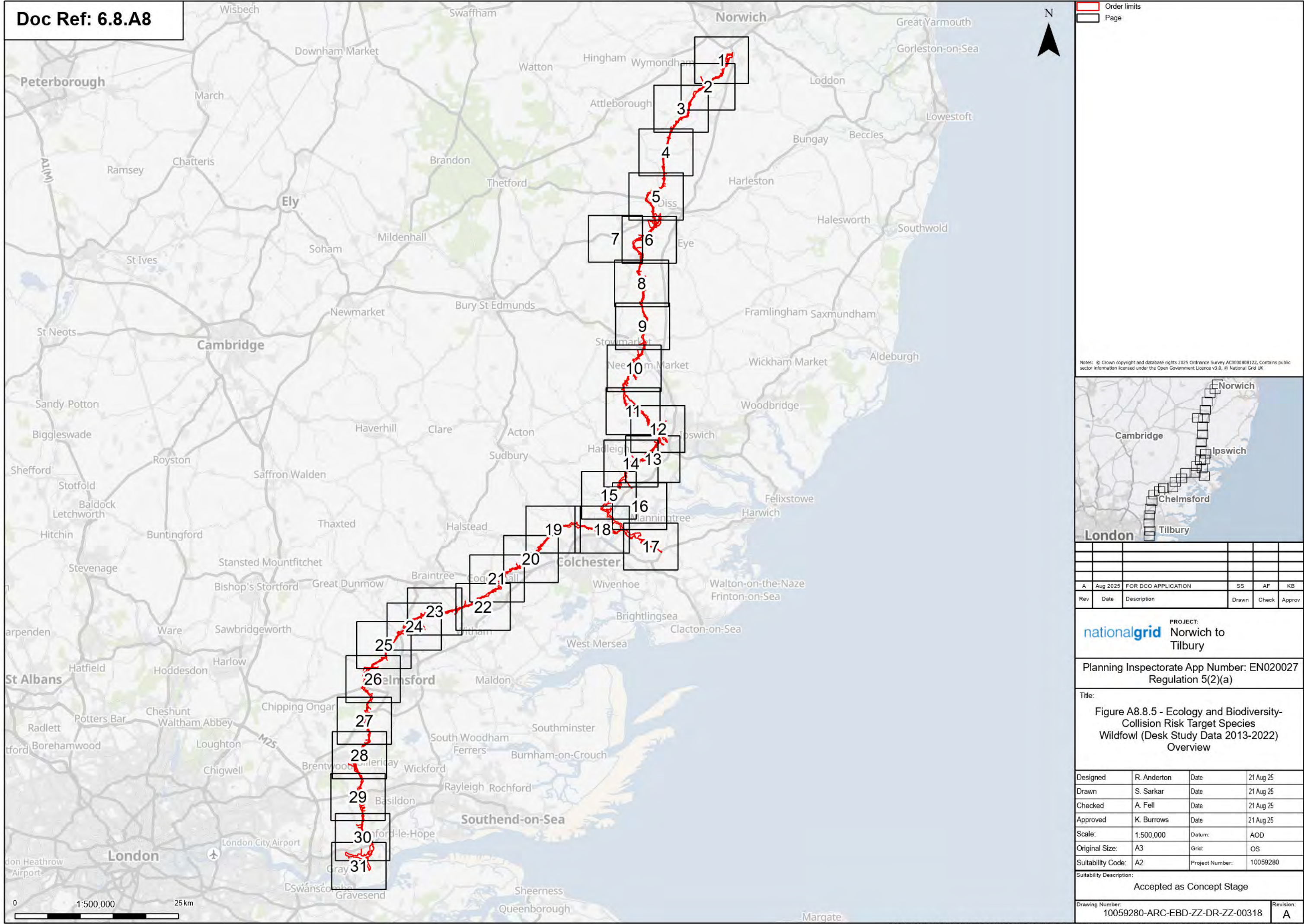
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Figure A8.8.4 - Ecology and Biodiversity
Distribution of SPA / Ramsar
Waterbird Assemblage Species
Desk Study Data - Thames Estuary and Marshes
Page 6 of 6

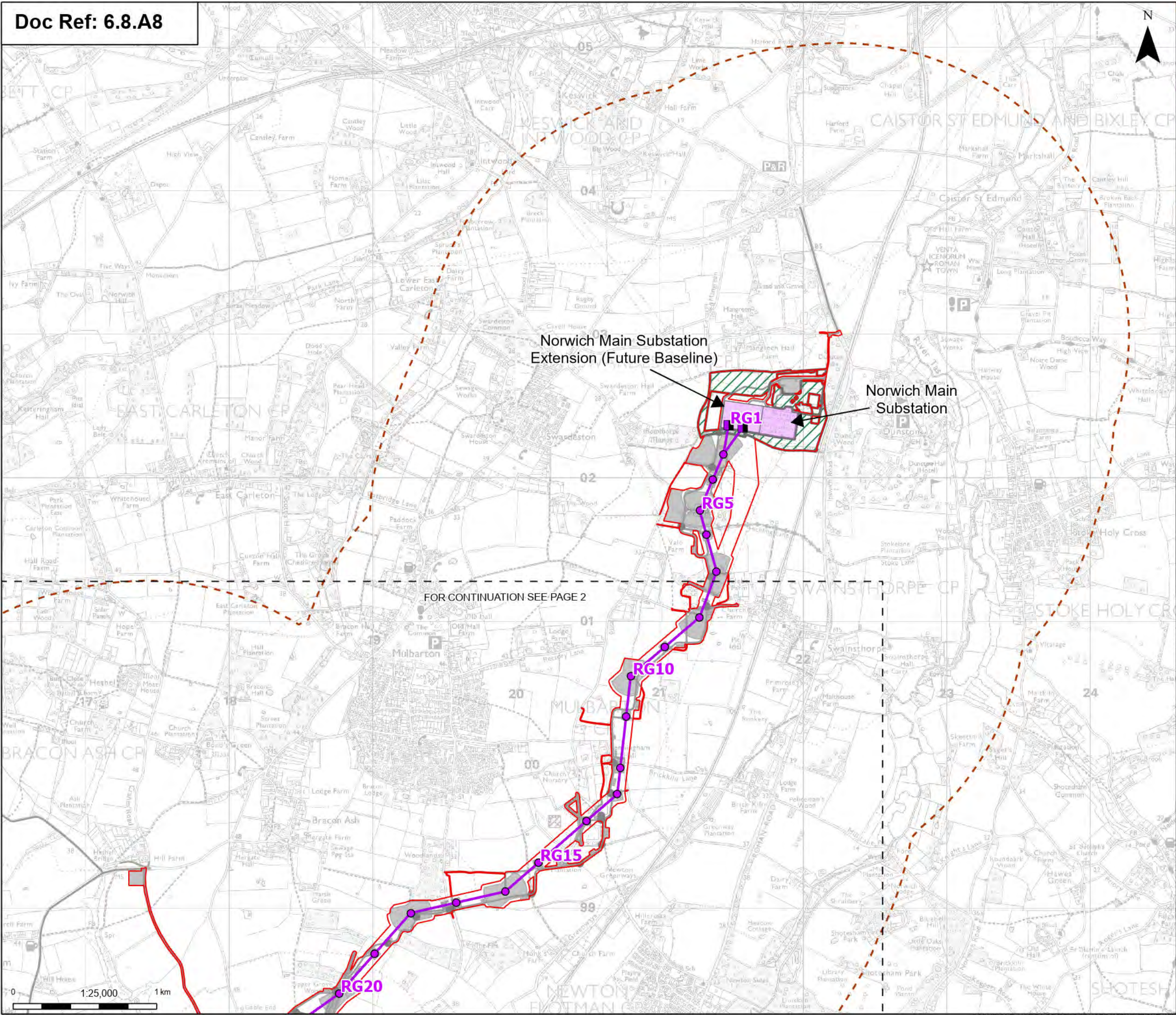
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Approved	K. Burrows	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00317

Revision:
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Order limits

Sheet index cutline

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

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

Pochard (PO)

Scaup (SP)

Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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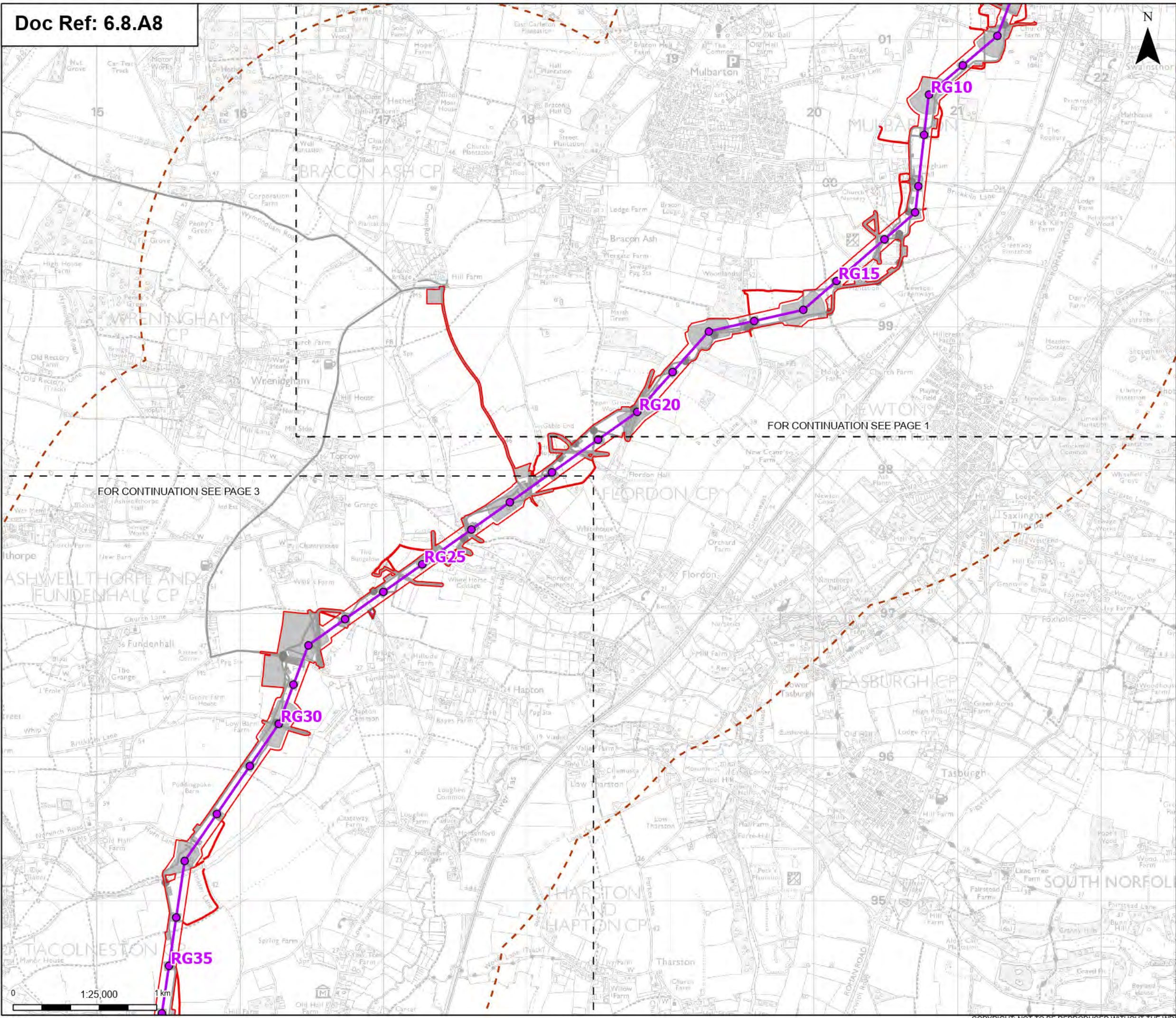
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
Page 1 of 31

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00318	Revision: A
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Order limits

Sheet index outline

Proposed project design details

Discipline specific constraints

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

2 km Study Area

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

Pochard (PO)

Scaup (SP)

Smew (SY)

Velvet scoter (VS)

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Whooper swan (WS)

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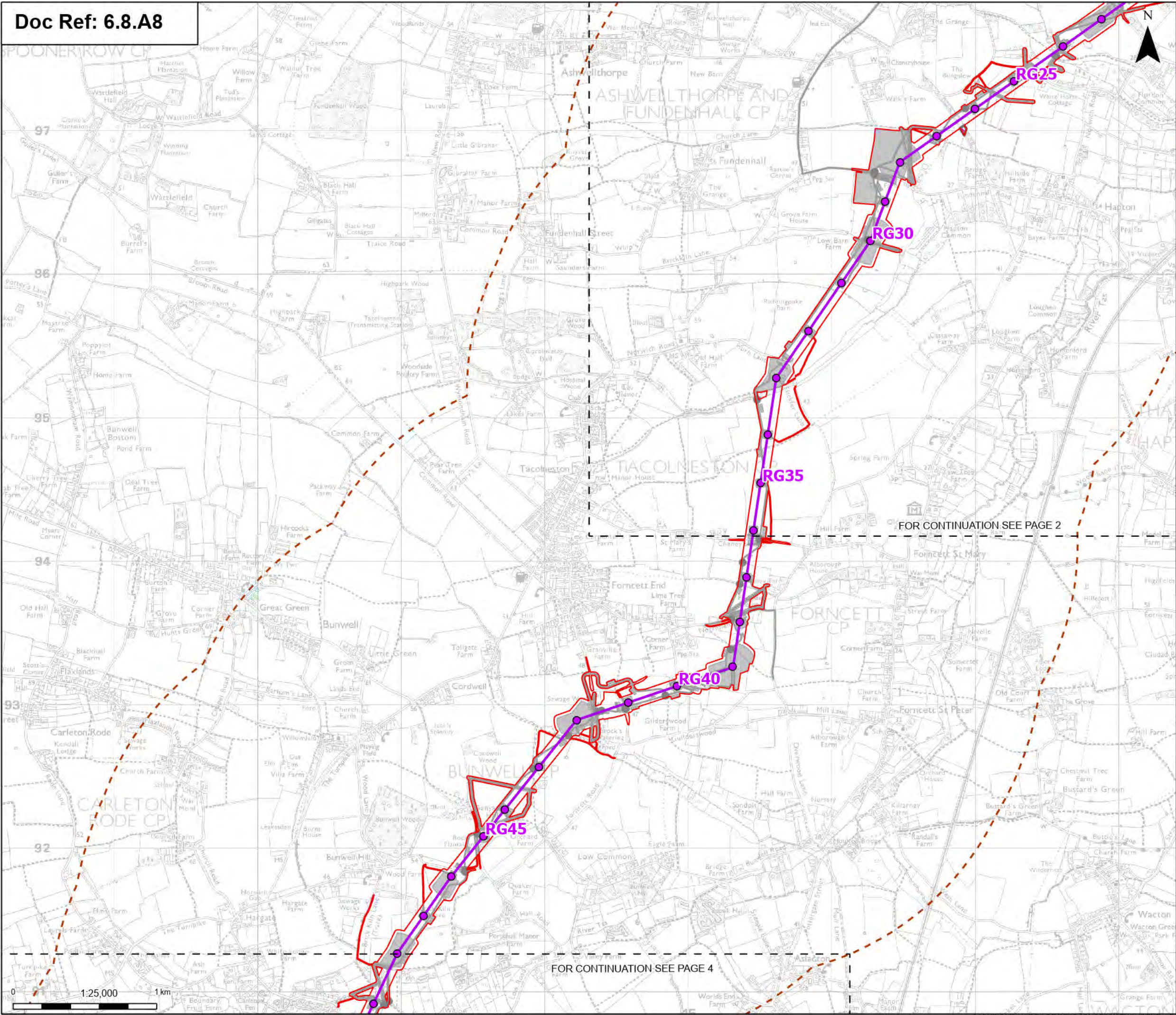
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Regulation 5(2)(a)

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Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
Page 2 of 31

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	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

Drawing Number:	10059280-ARC-EBD-ZZ-DR-ZZ-00318	Revision:	A
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Order limits
Sheet index outline

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

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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)

Title:
Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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Approved	K. Burrows	Date	21 Aug 25
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Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00318

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A

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FOR CONTINUATION SEE PAGE 5

Order limits

Sheet index outline

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

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

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PROJECT:
nationalgrid Norwich to
Tilbury

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

Title:
Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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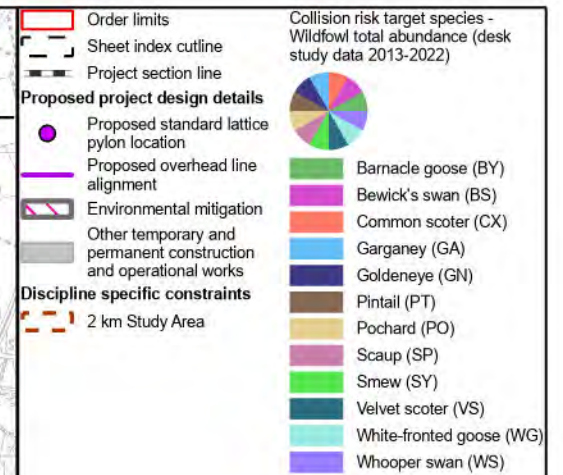
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Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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nationalgrid PROJECT: Norwich to Tilbury

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

Title: Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
Page 5 of 31

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	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
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Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00318	Revision: A
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FOR CONTINUATION SEE PAGE 5

FOR CONTINUATION SEE PAGE 8
FOR CONTINUATION
SEE PAGE 7

Order limits

Sheet index outline

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

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

Pochard (PO)

Scaup (SP)

Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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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Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
Page 6 of 31

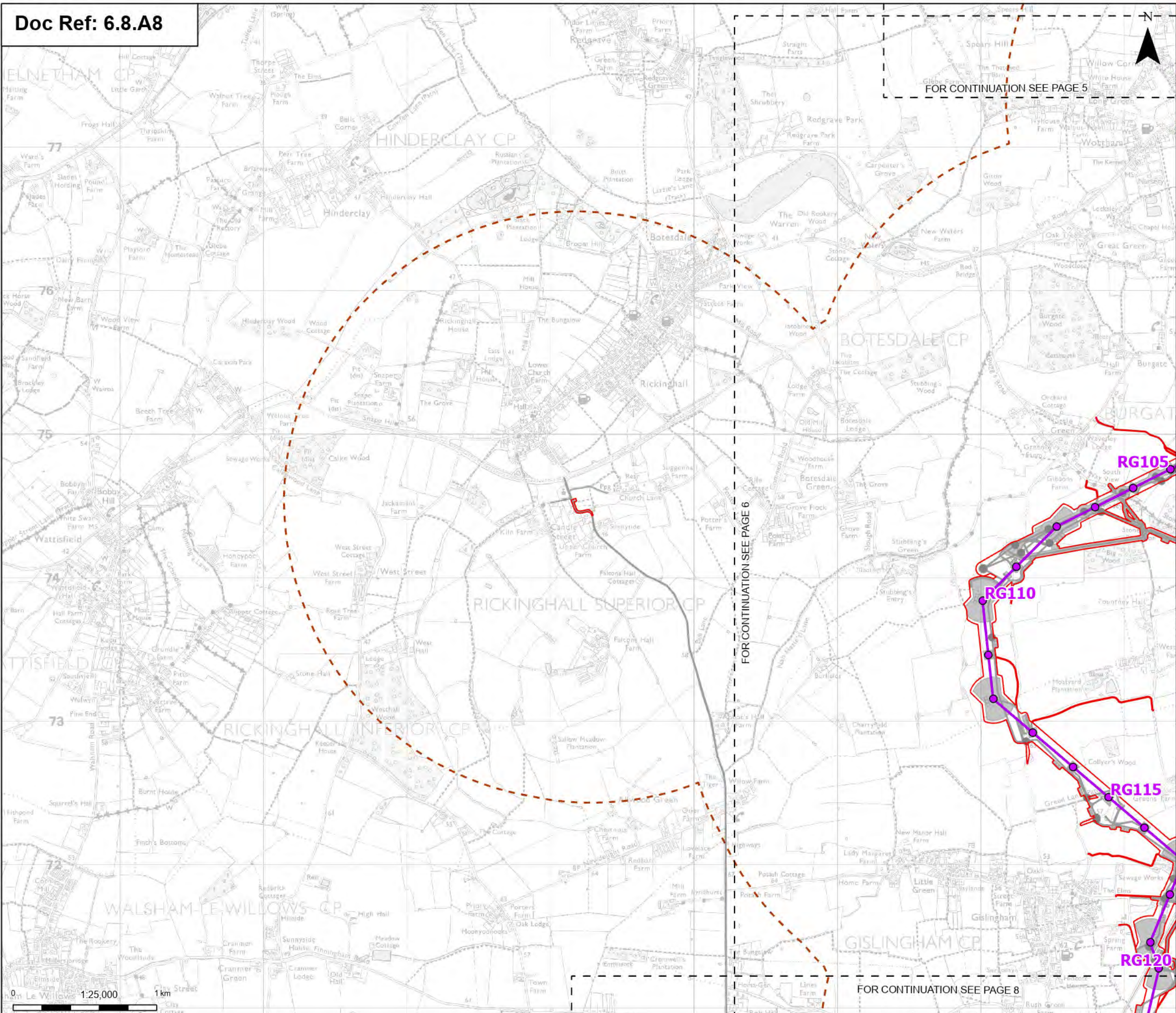
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Sheet index outline

Proposed project design details

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

Discipline specific constraints

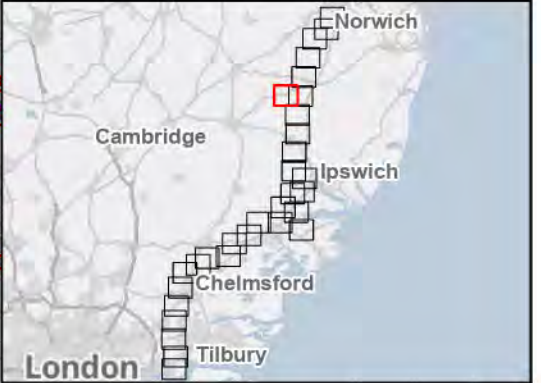
- 2 km Study Area

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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**

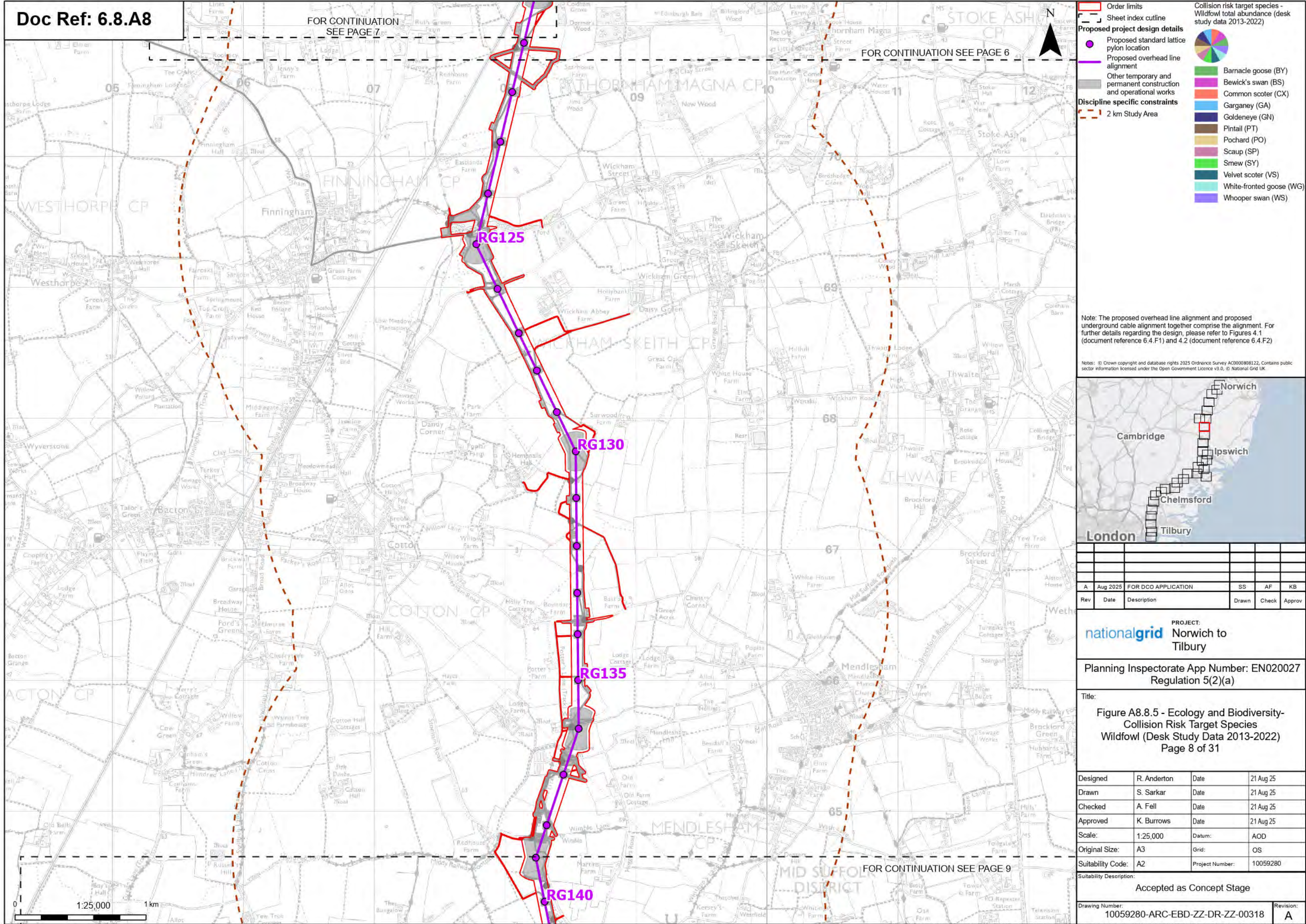
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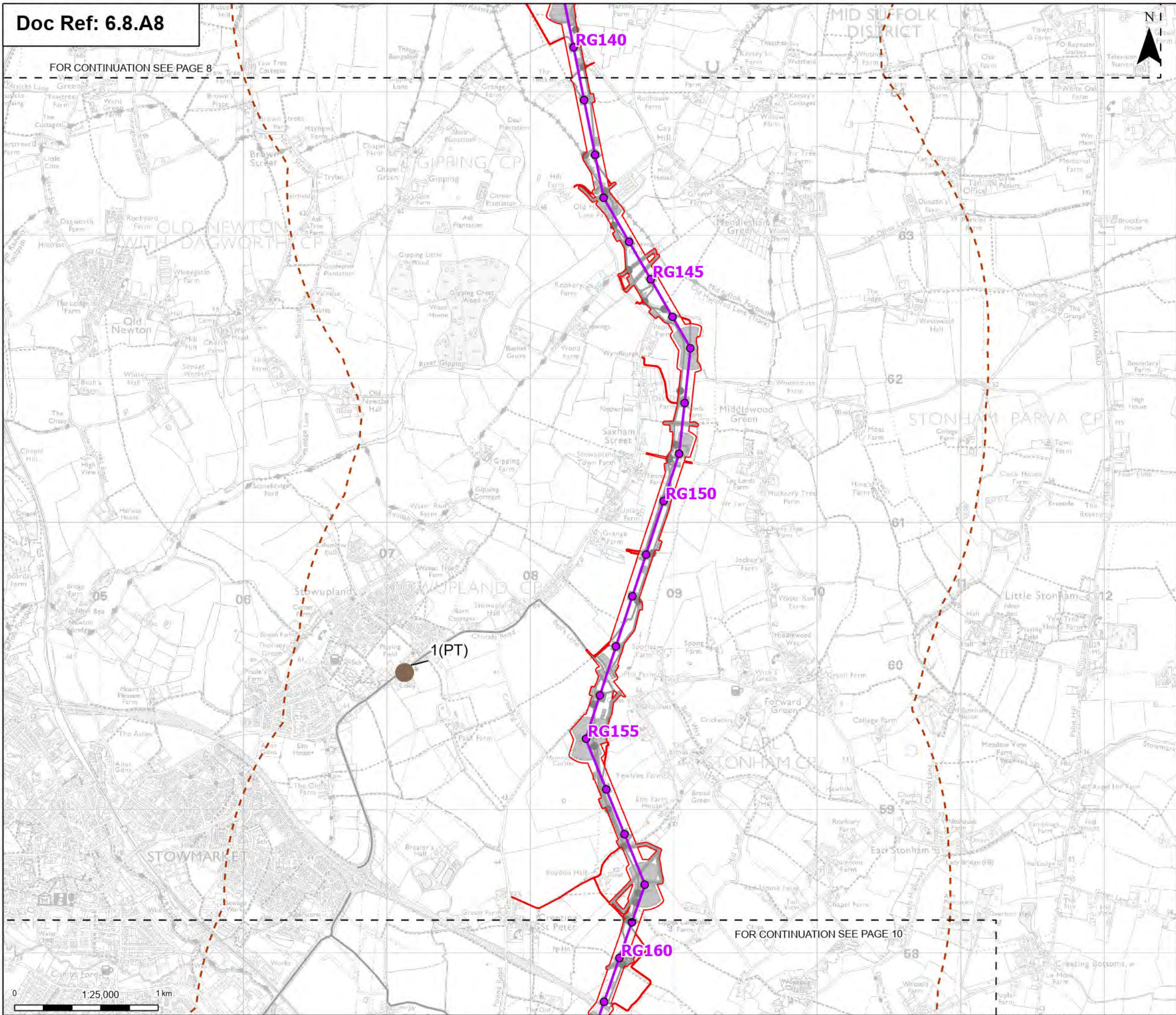
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Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00318
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Sheet index outline

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

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

Pochard (PO)

Scaup (SP)

Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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

Cambridge

Ipswich

Chelmsford

Tilbury

London

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PROJECT:

nationalgrid Norwich to Tilbury

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Title:
Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
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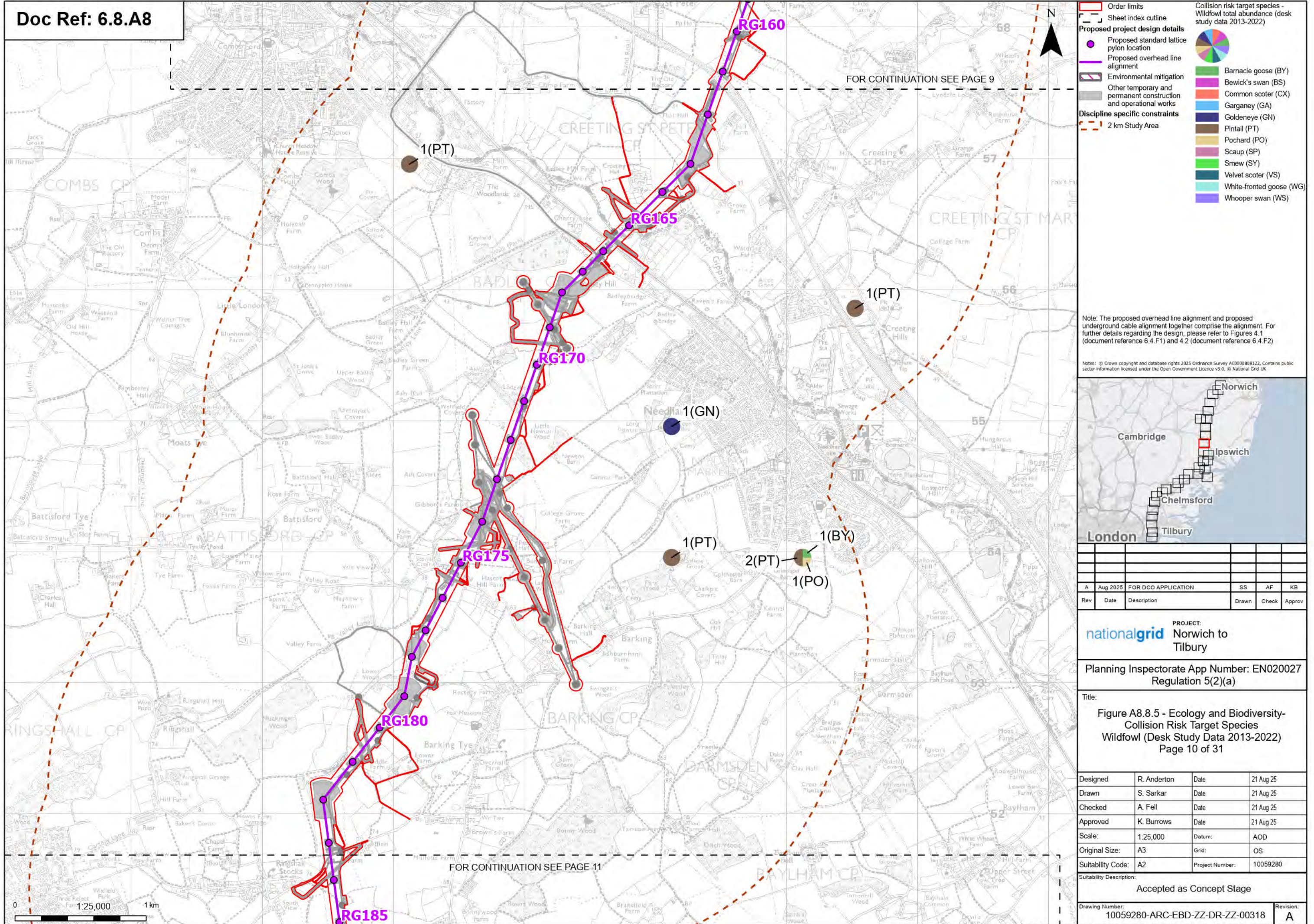
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Suitability Description:
Accepted as Concept Stage

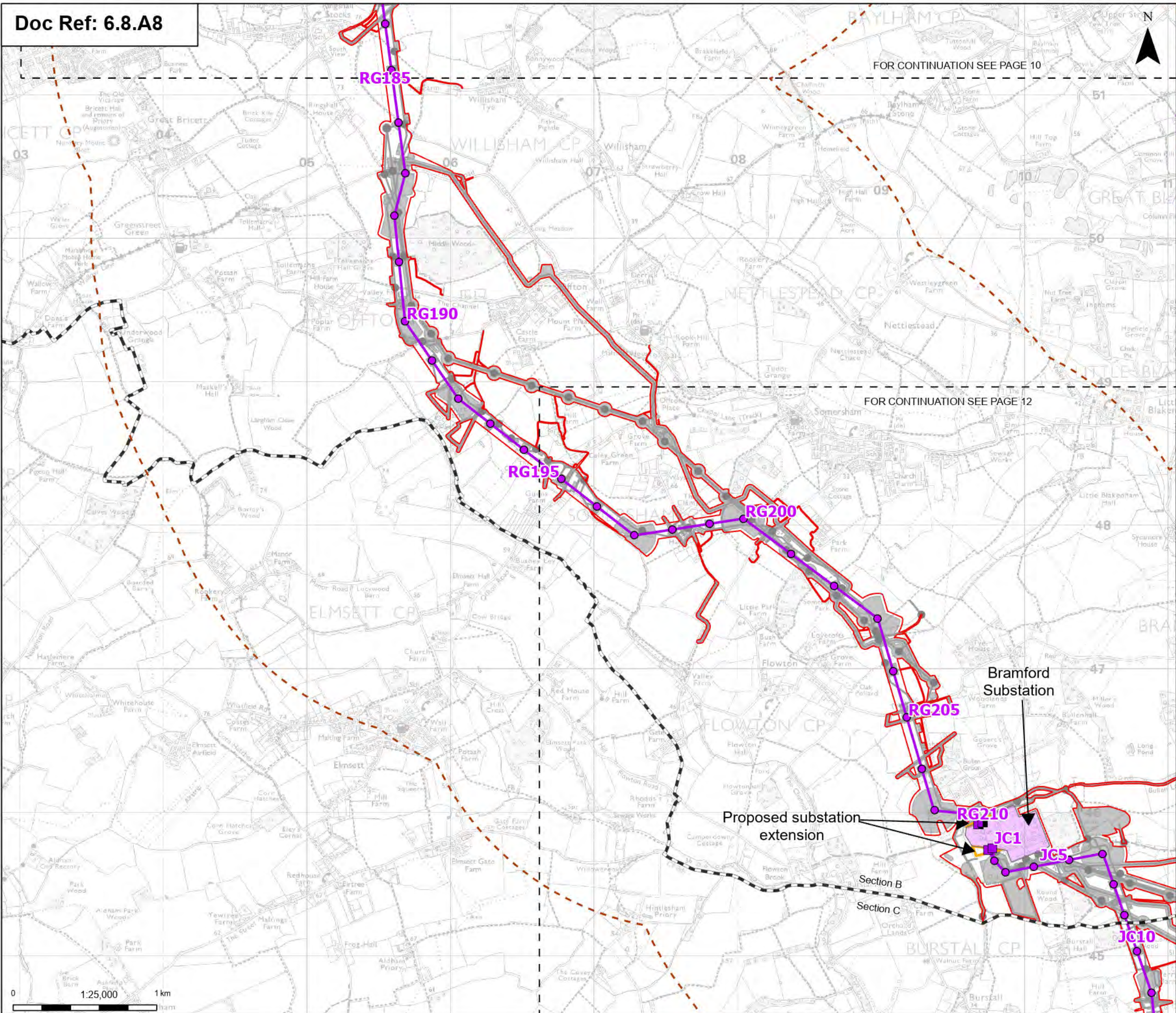
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Order limits
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Project section line

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

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)	Bewick's swan (BS)	Common scoter (CX)	Garganey (GA)	Goldeneye (GN)	Pintail (PT)	Pochard (PO)	Scaup (SP)	Smew (SY)	Velvet scoter (VS)	White-fronted goose (WG)	Whooper swan (WS)
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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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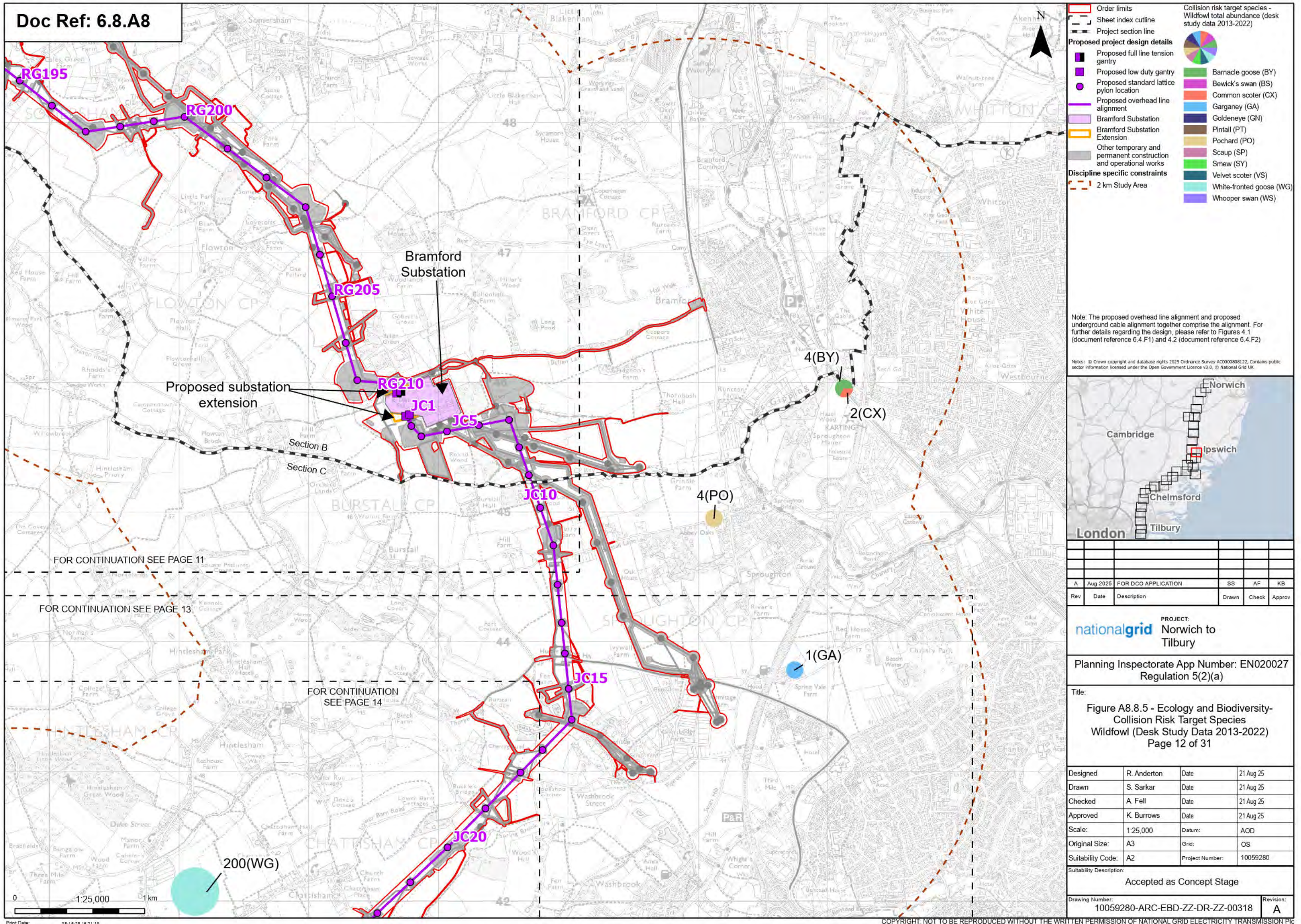
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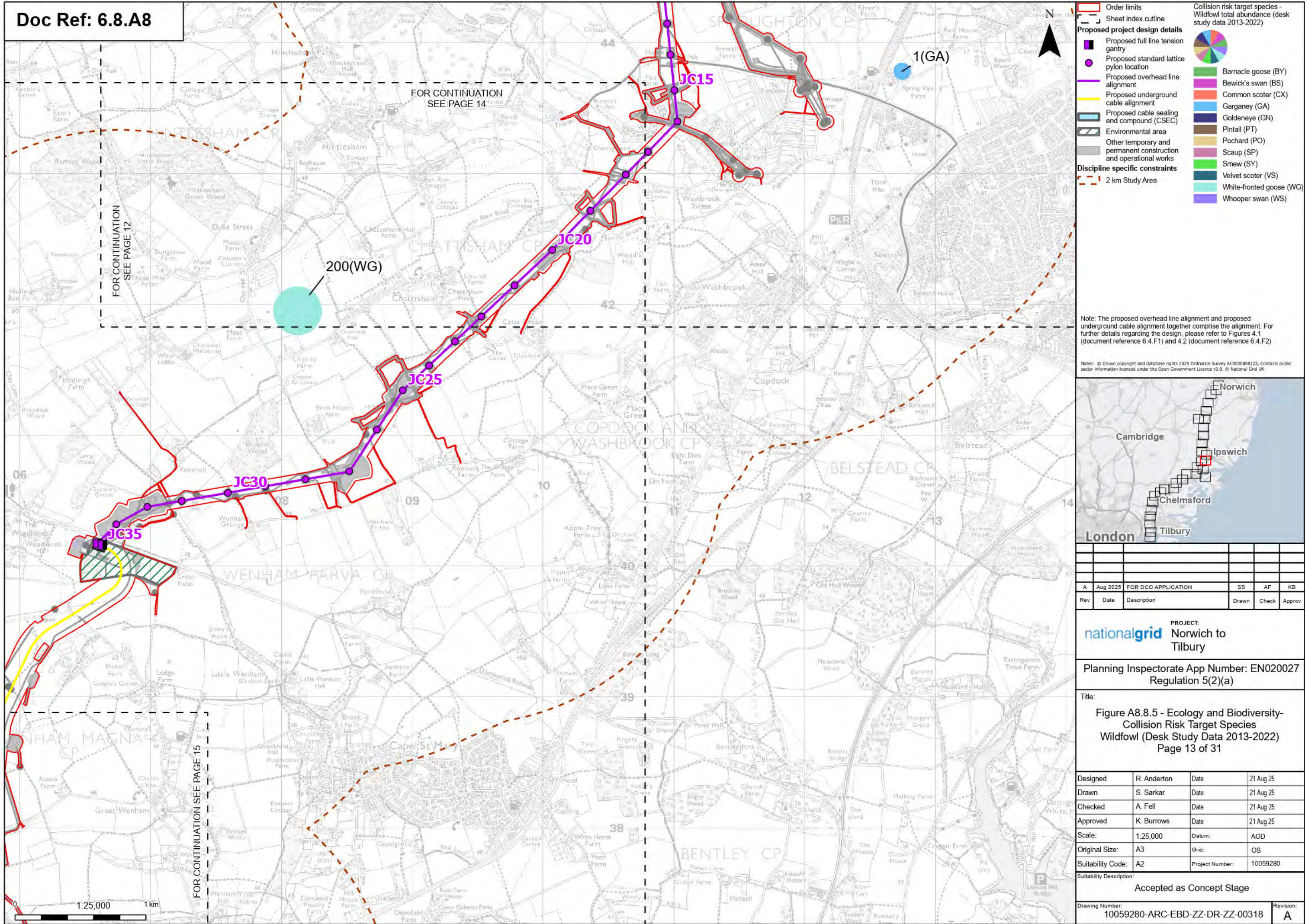
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Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
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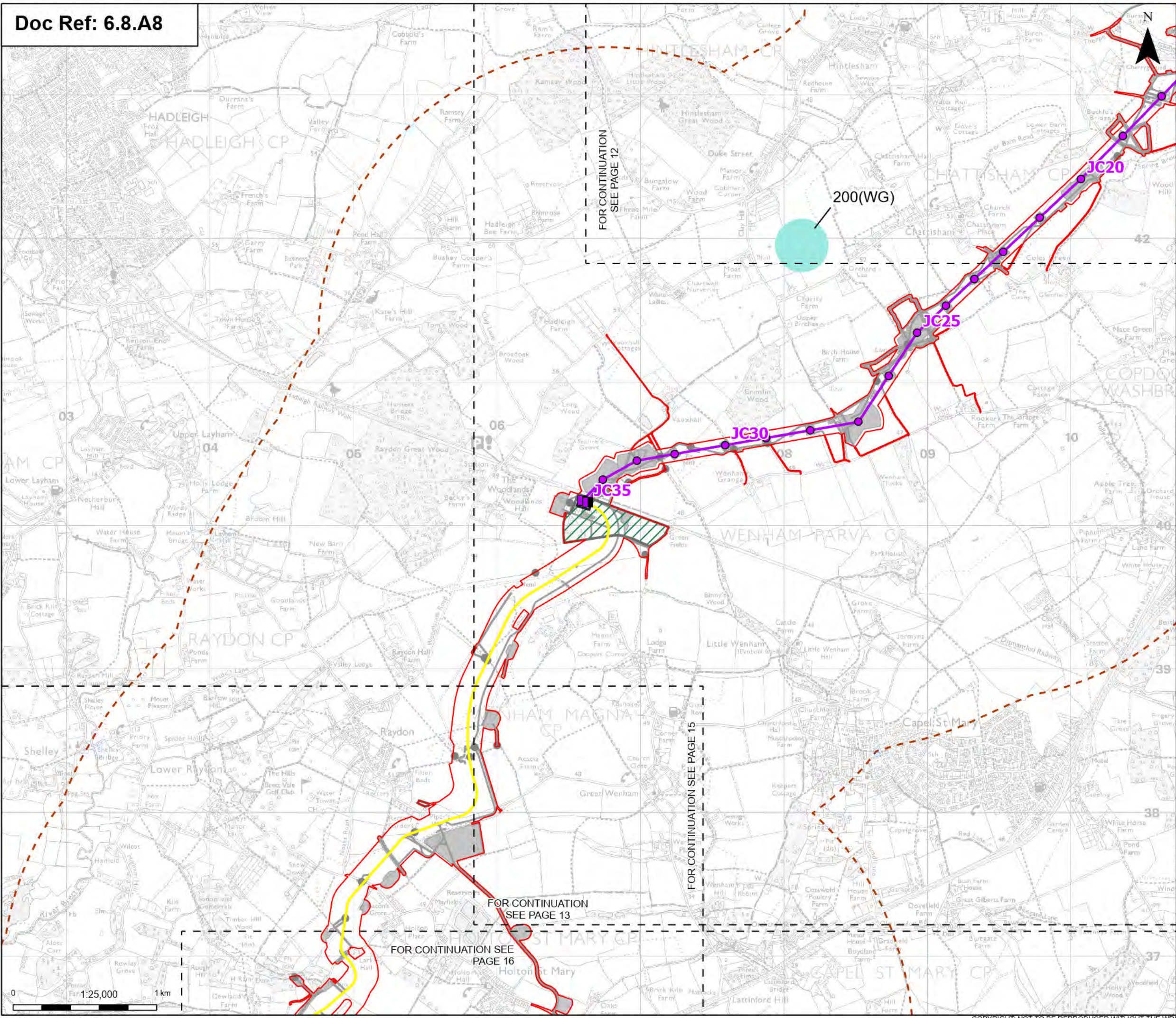
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Revision:
A







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Proposed project design details

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

Discipline specific constraints

- 2 km Study Area

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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

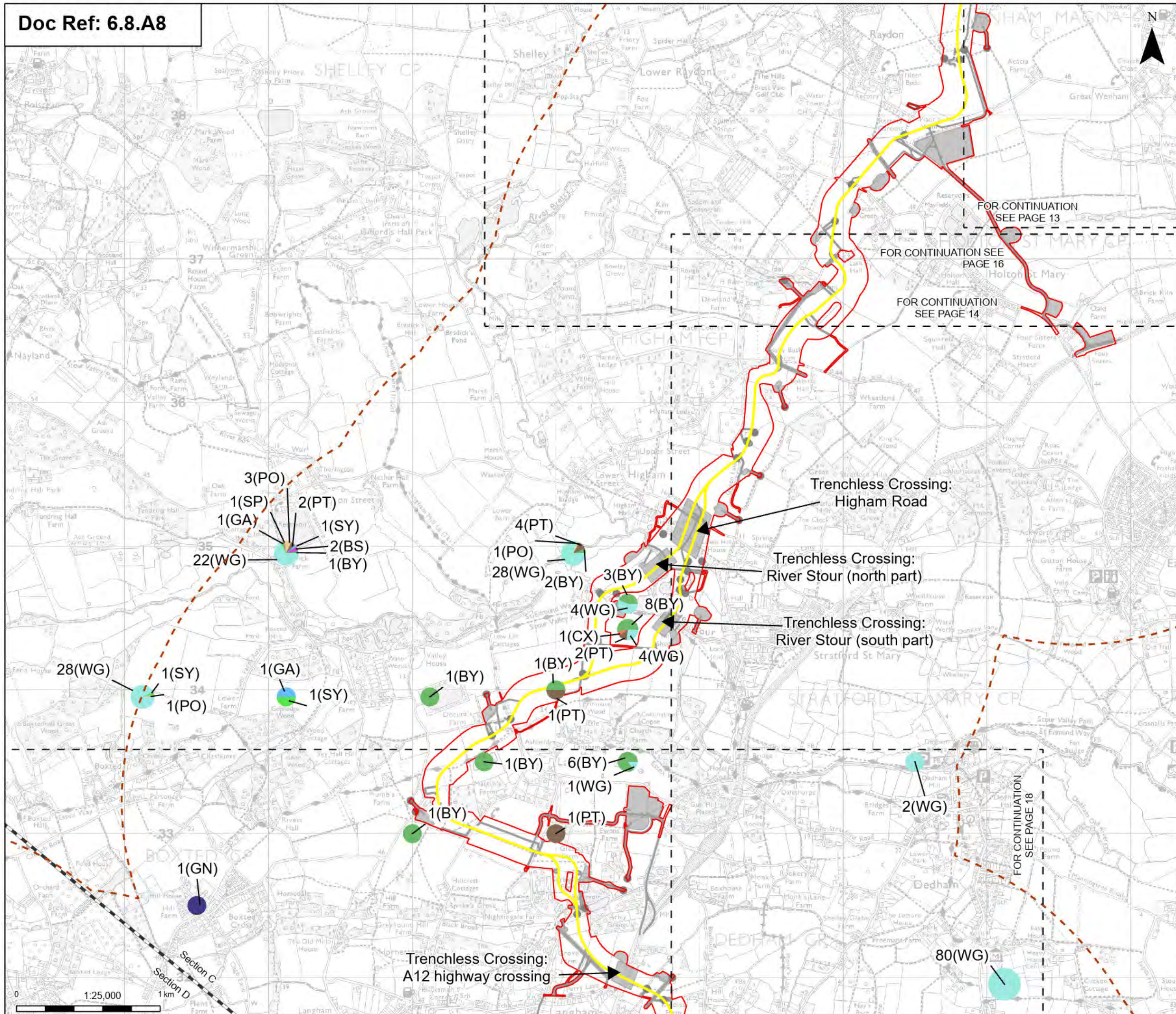
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**Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
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Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00318

Revision:
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Order limits

Sheet index cutline

Project section line

Proposed project design details

Proposed underground cable alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

Pochard (PO)

Scaup (SP)

Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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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London

Cambridge

Chelmsford

Ipswich

Norwich

Tilbury

Rev	Date	Description	Drawn	Check	Approv
A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB

PROJECT: Norwich to Tilbury

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

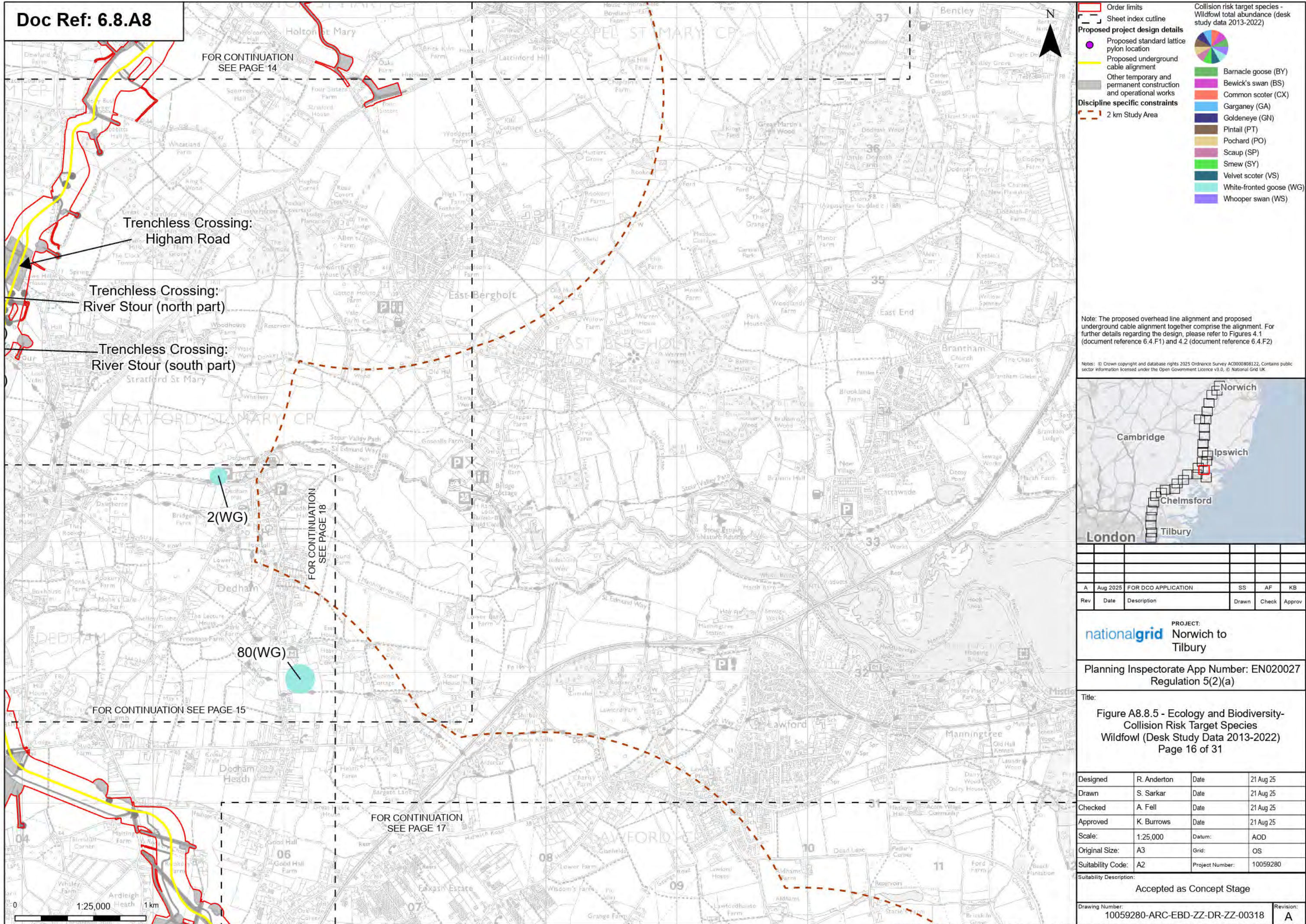
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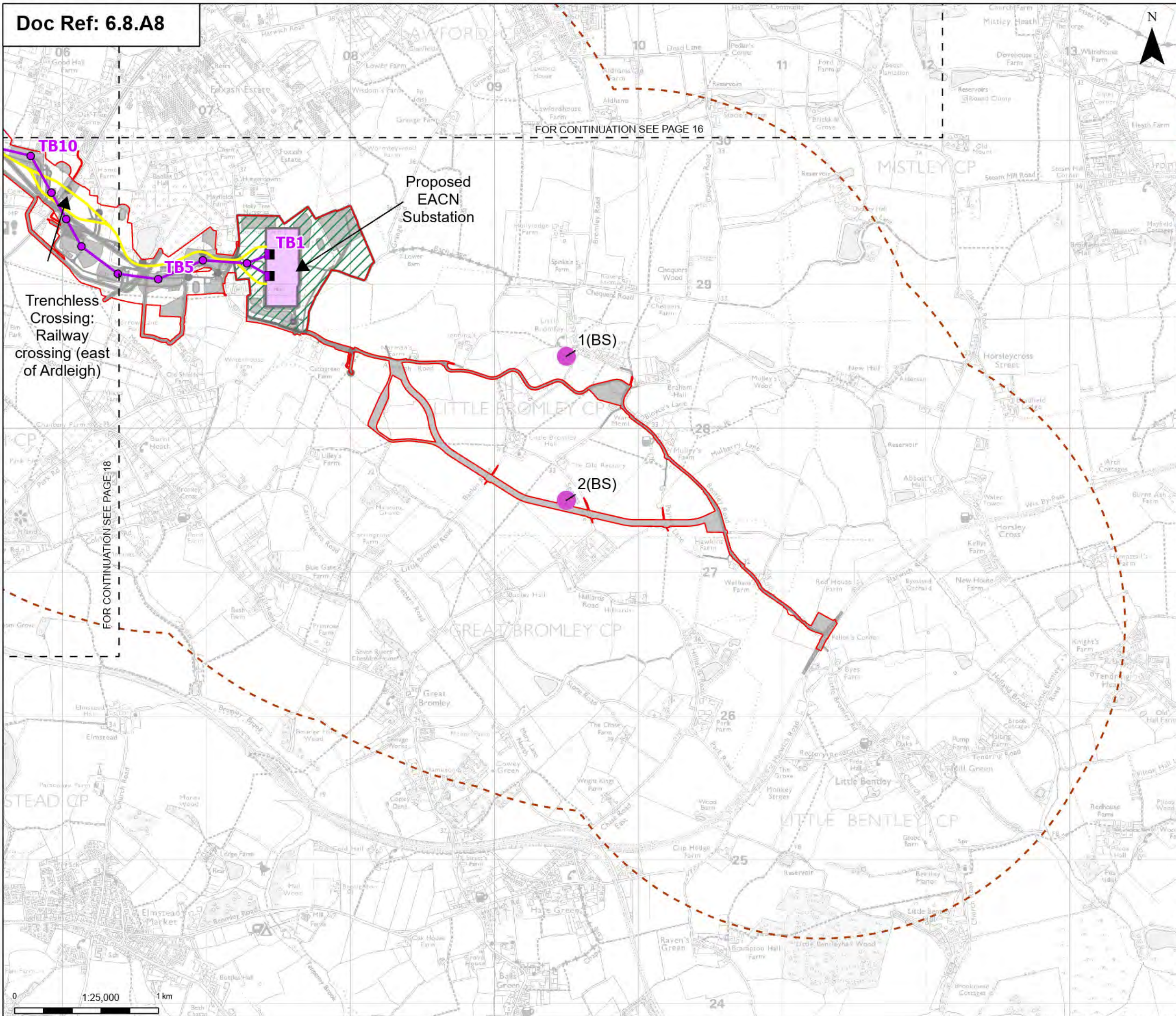
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Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description: Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00318

Revision: A





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

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

Pochard (PO)

Scaup (SP)

Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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

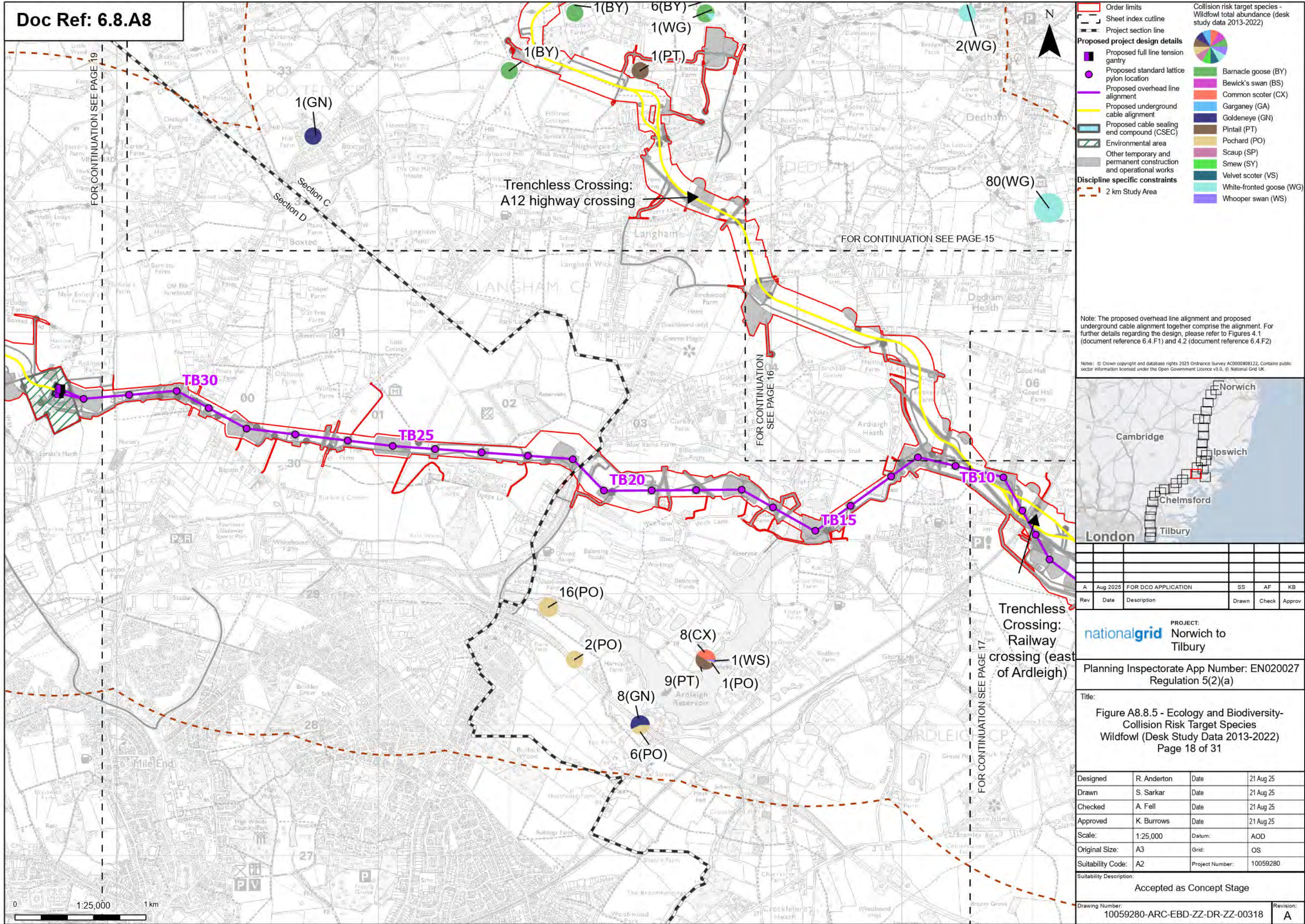
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Regulation 5(2)(a)

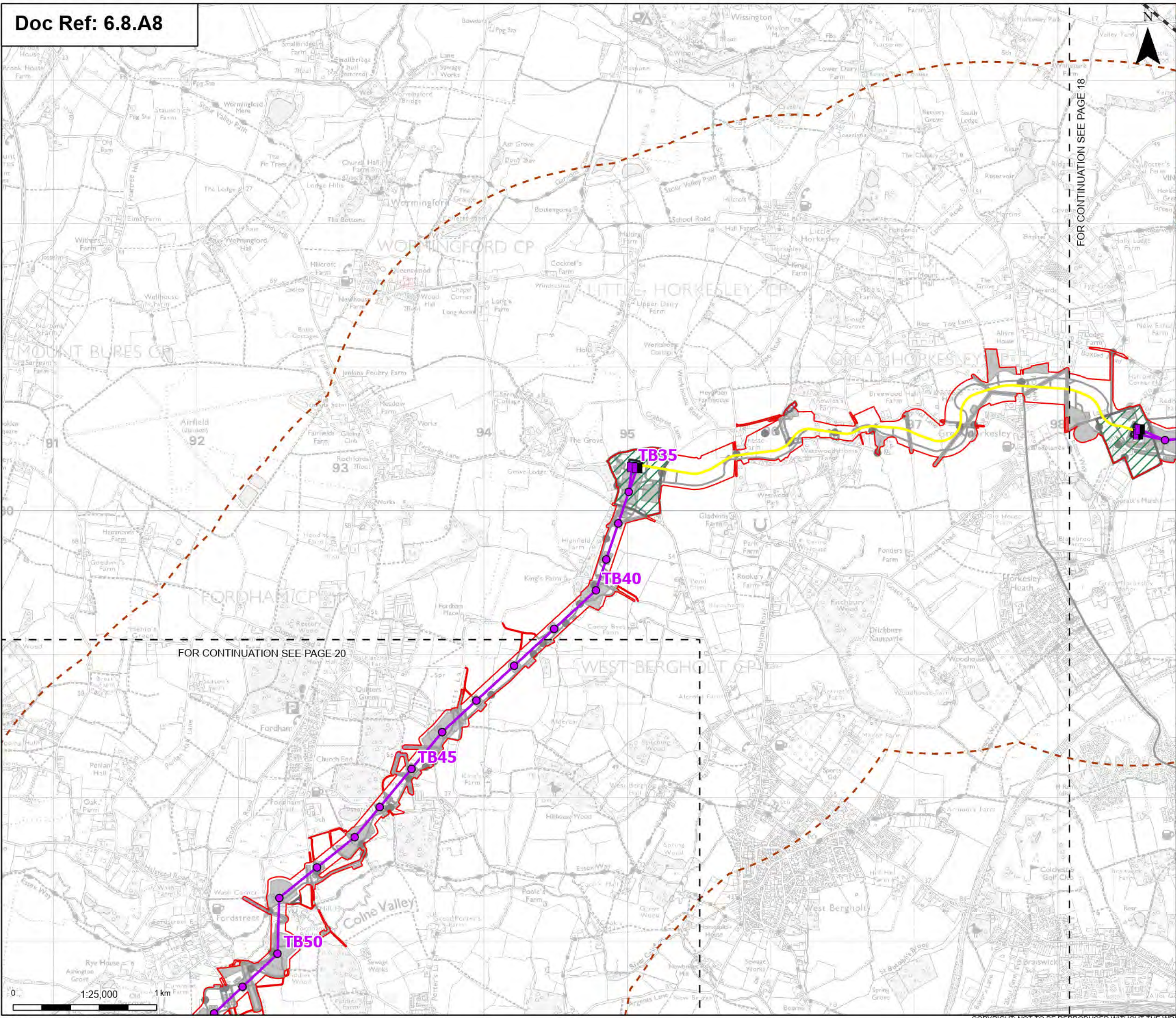
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Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00318	Revision: A
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Order limits

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Project section line

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

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

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Scaup (SP)

Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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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nationalgrid

PROJECT:
Norwich to
Tilbury

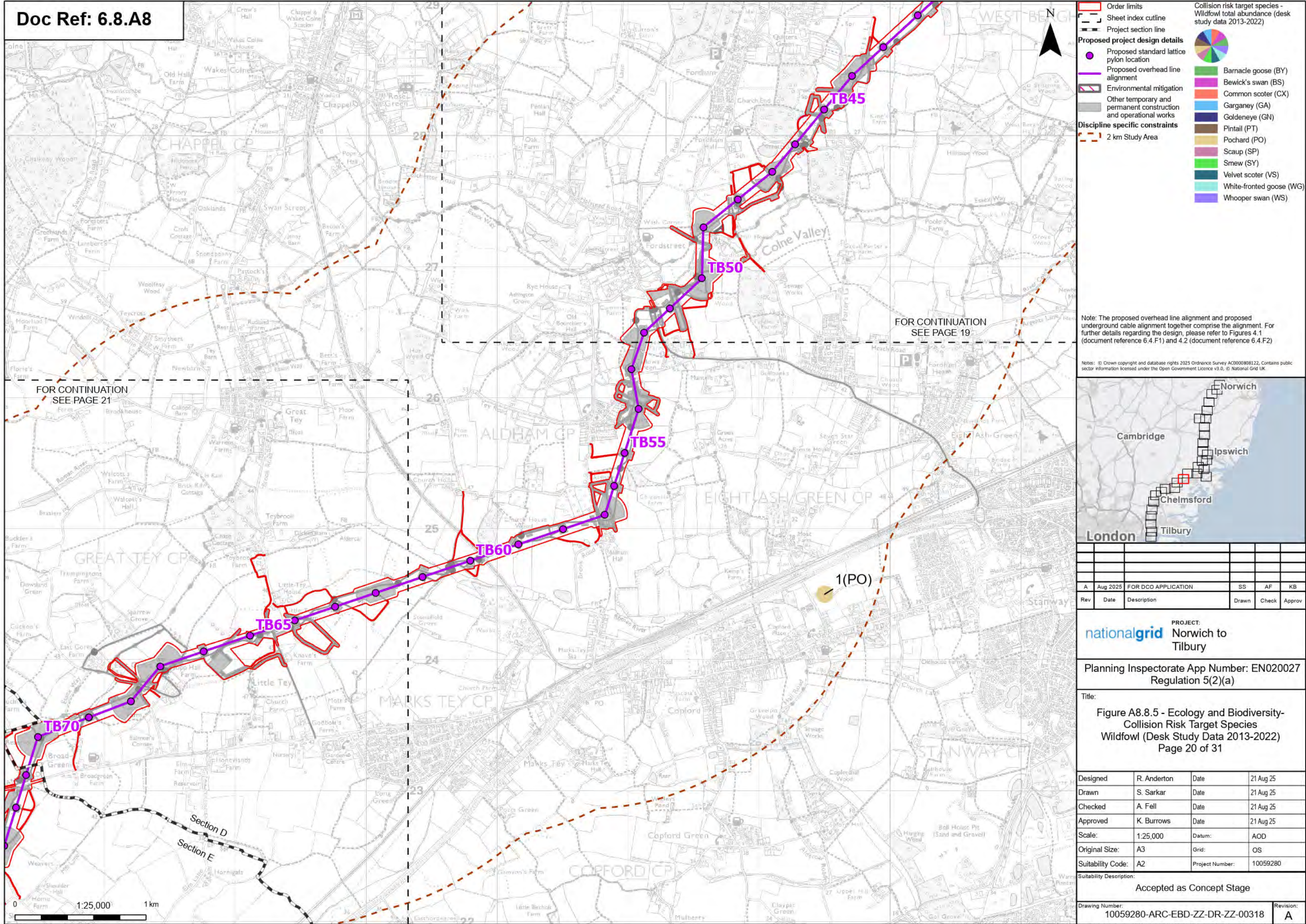
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Regulation 5(2)(a)

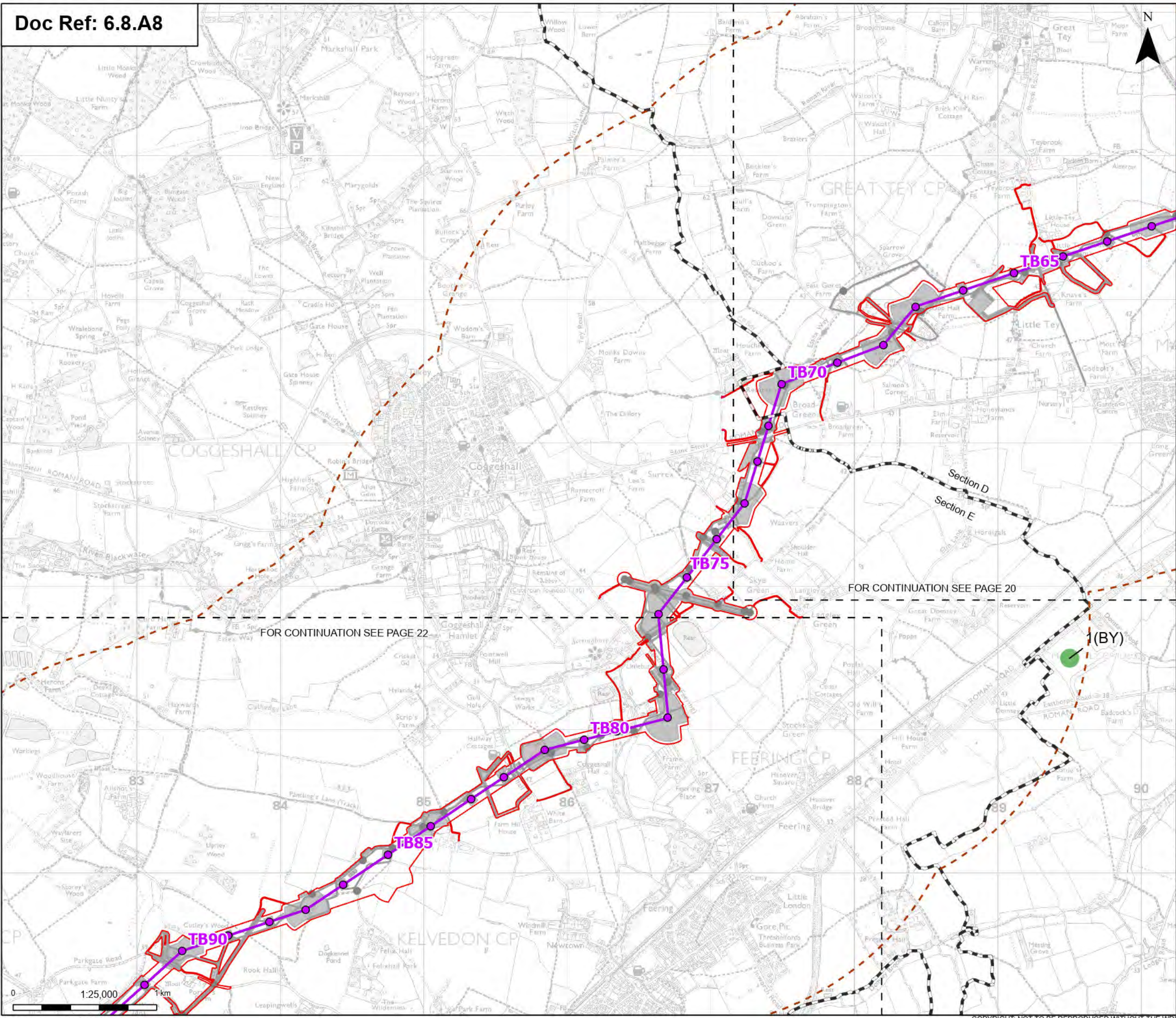
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Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
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Drawn	S. Sarkar	Date	21 Aug 25
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00318	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

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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

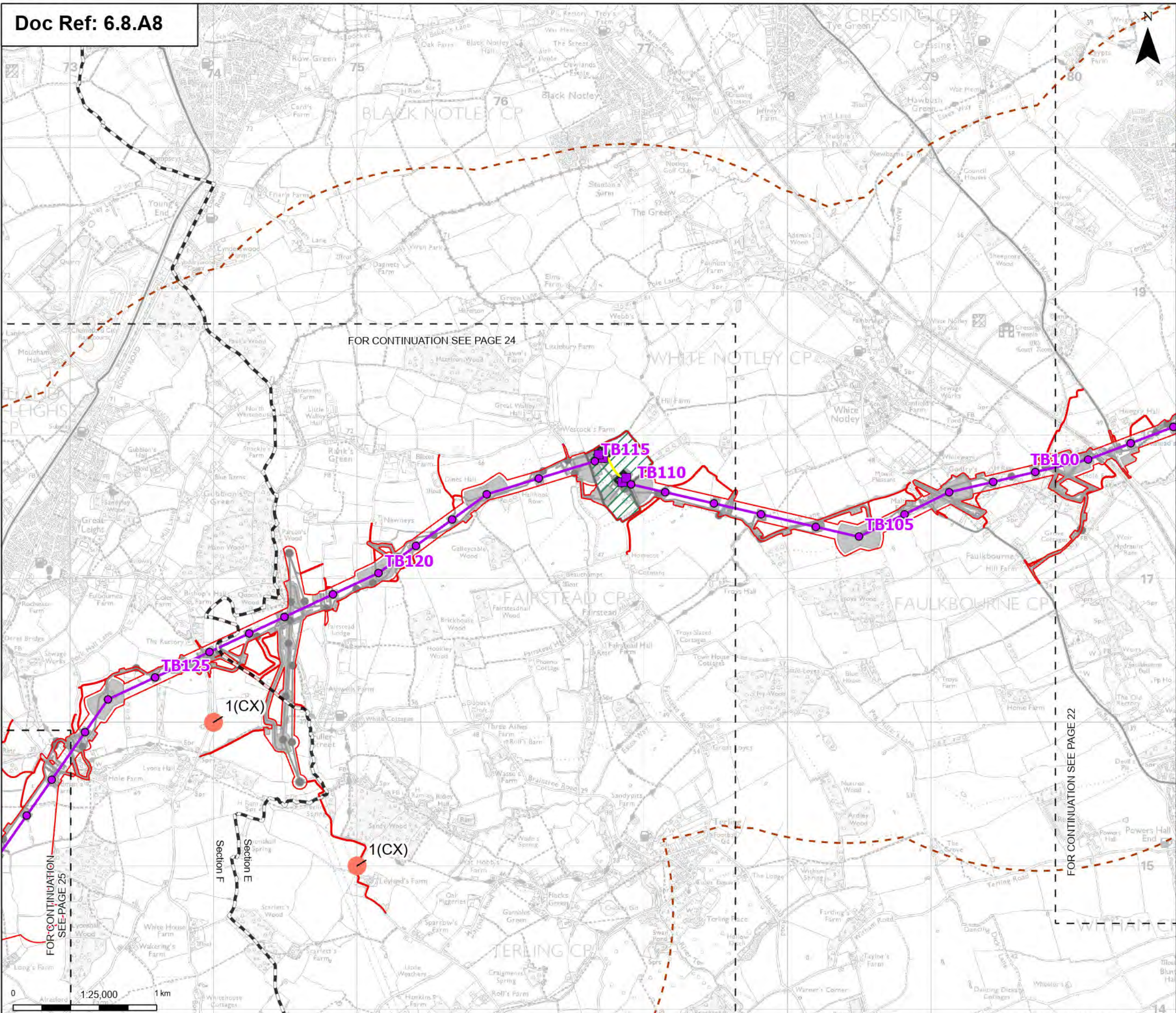
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Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
Page 21 of 31

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Drawn	S. Sarkar	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-00318

Revision:
A



Order limits

- Sheet index cutline
- Project section line

Proposed project design details

- 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

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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PROJECT: **Norwich to Tilbury**

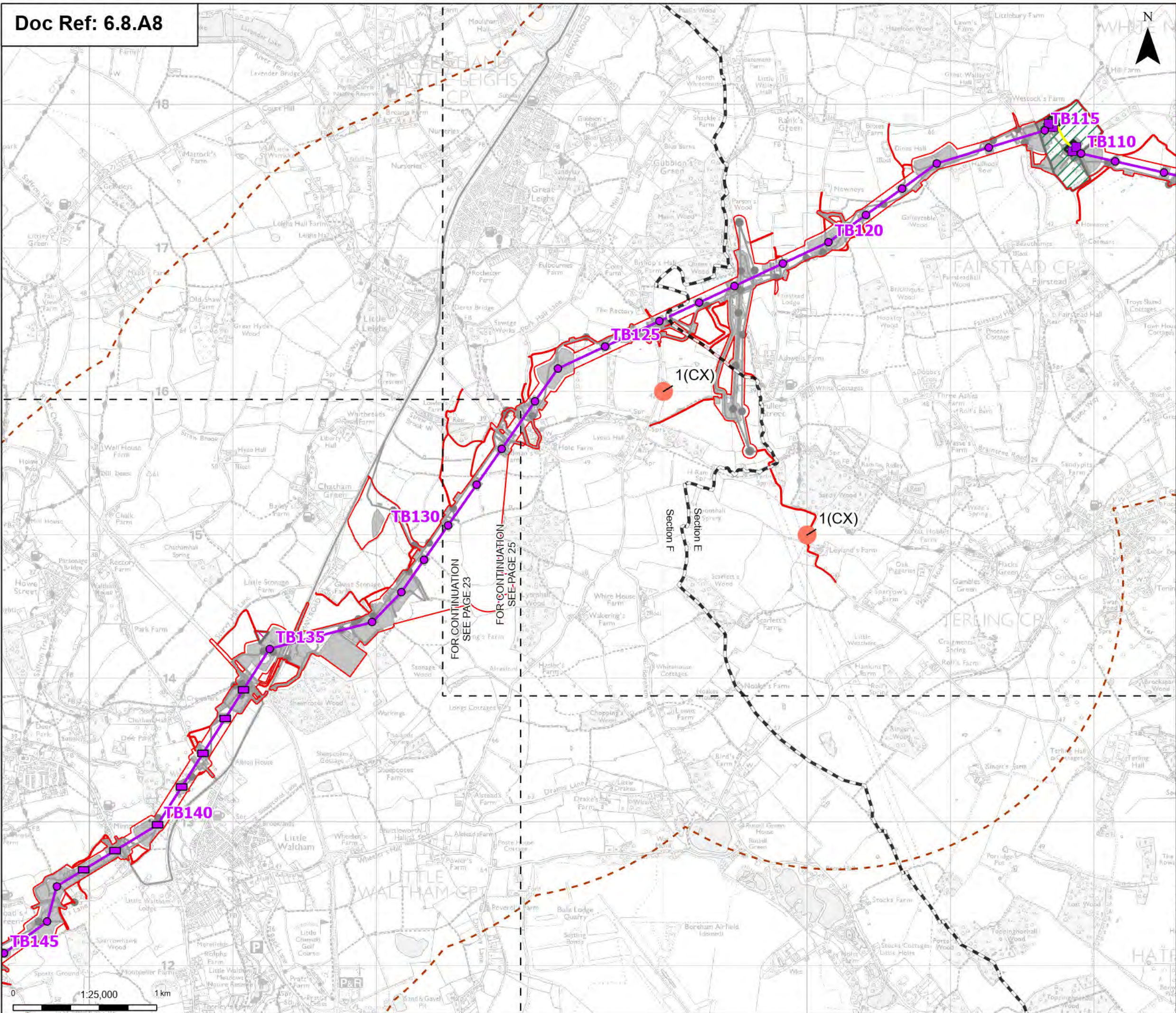
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Regulation 5(2)(a)

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Figure A8.8.5 - Ecology and Biodiversity- Collision Risk Target Species Wildfowl (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	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

Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00318
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
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
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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**

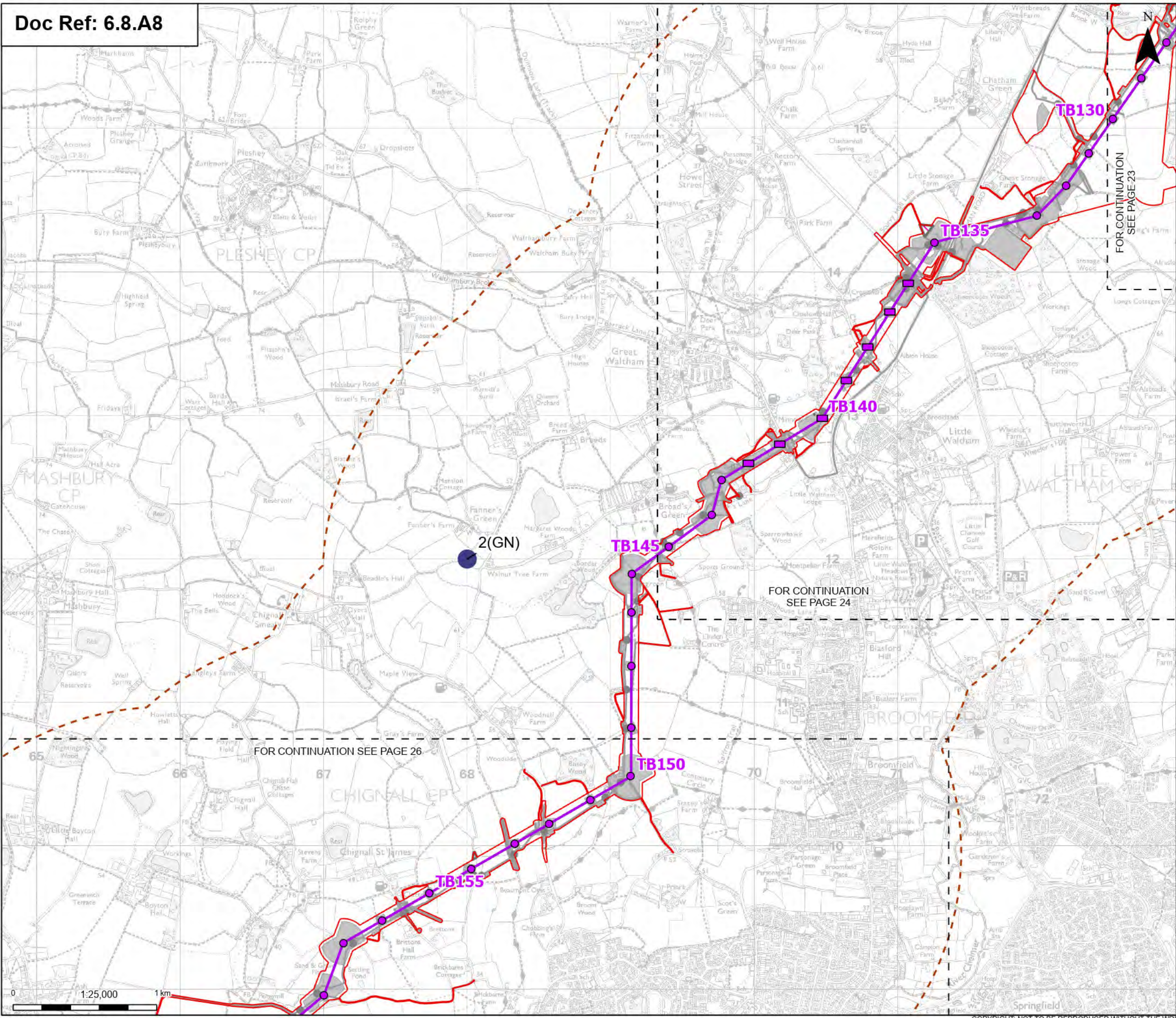
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Regulation 5(2)(a)

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Figure A8.8.5 - Ecology and Biodiversity - Collision Risk Target Species Wildfowl (Desk Study Data 2013-2022)
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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

Accepted as Concept Stage

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Order limits
Sheet index outline

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

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
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- Whooper swan (WS)

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)

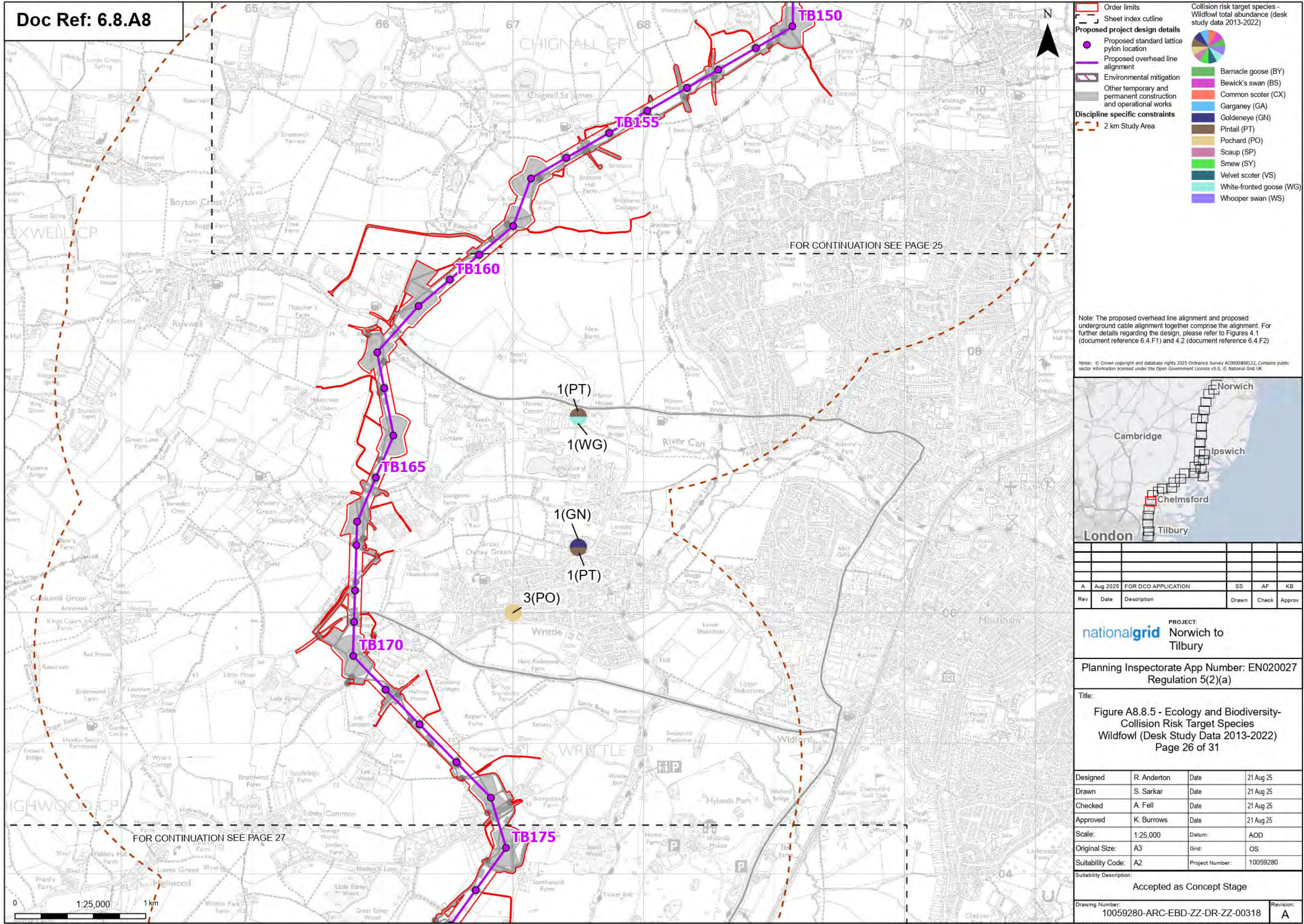
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Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
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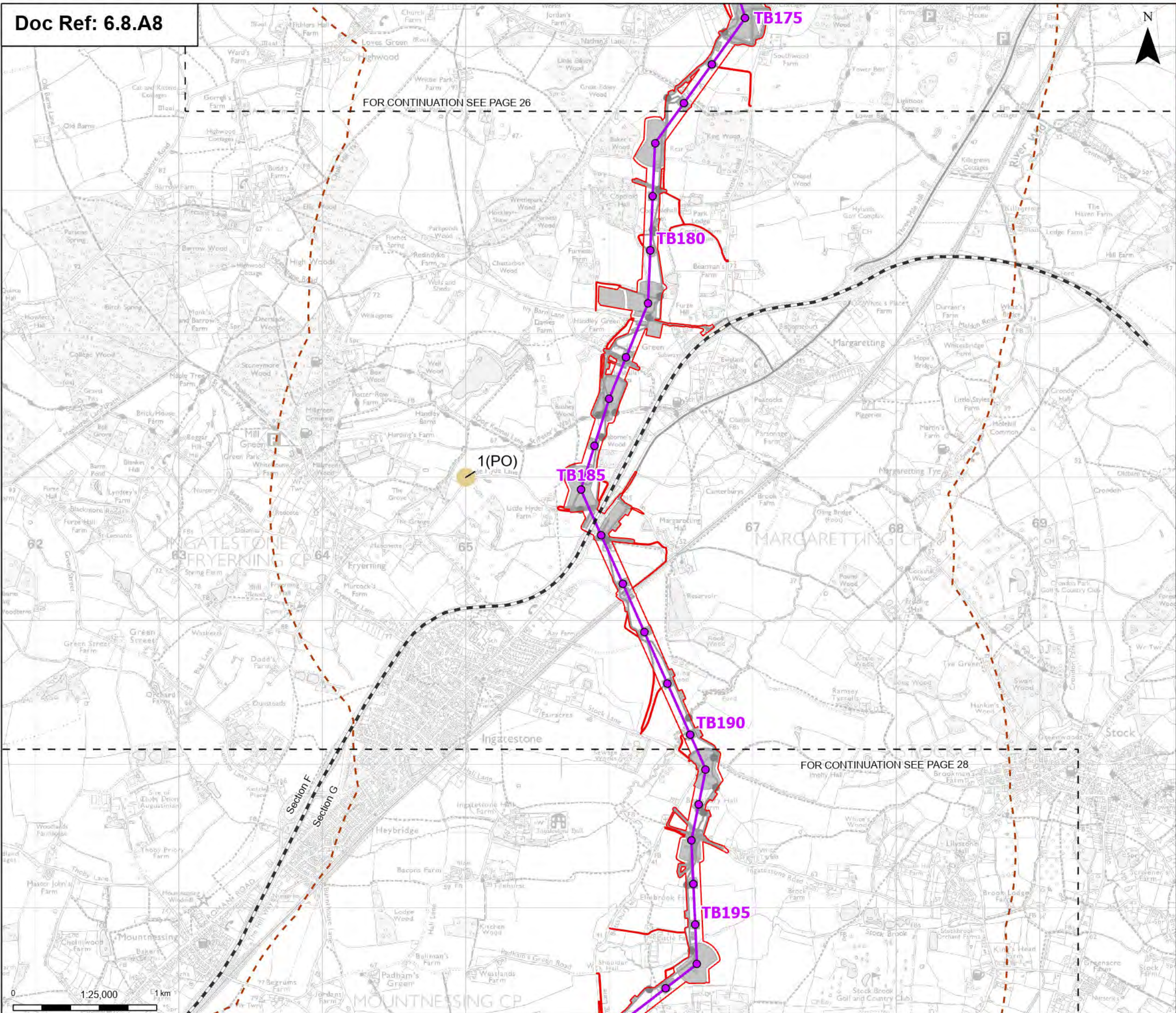
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

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10059280-ARC-EBD-ZZ-DR-ZZ-00318

Revision:
A





Order limits
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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

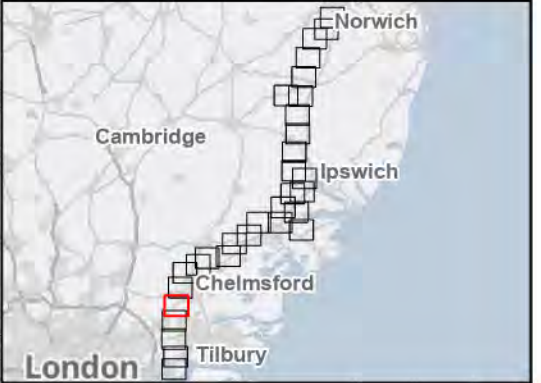
Discipline specific constraints
2 km Study Area

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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PROJECT:
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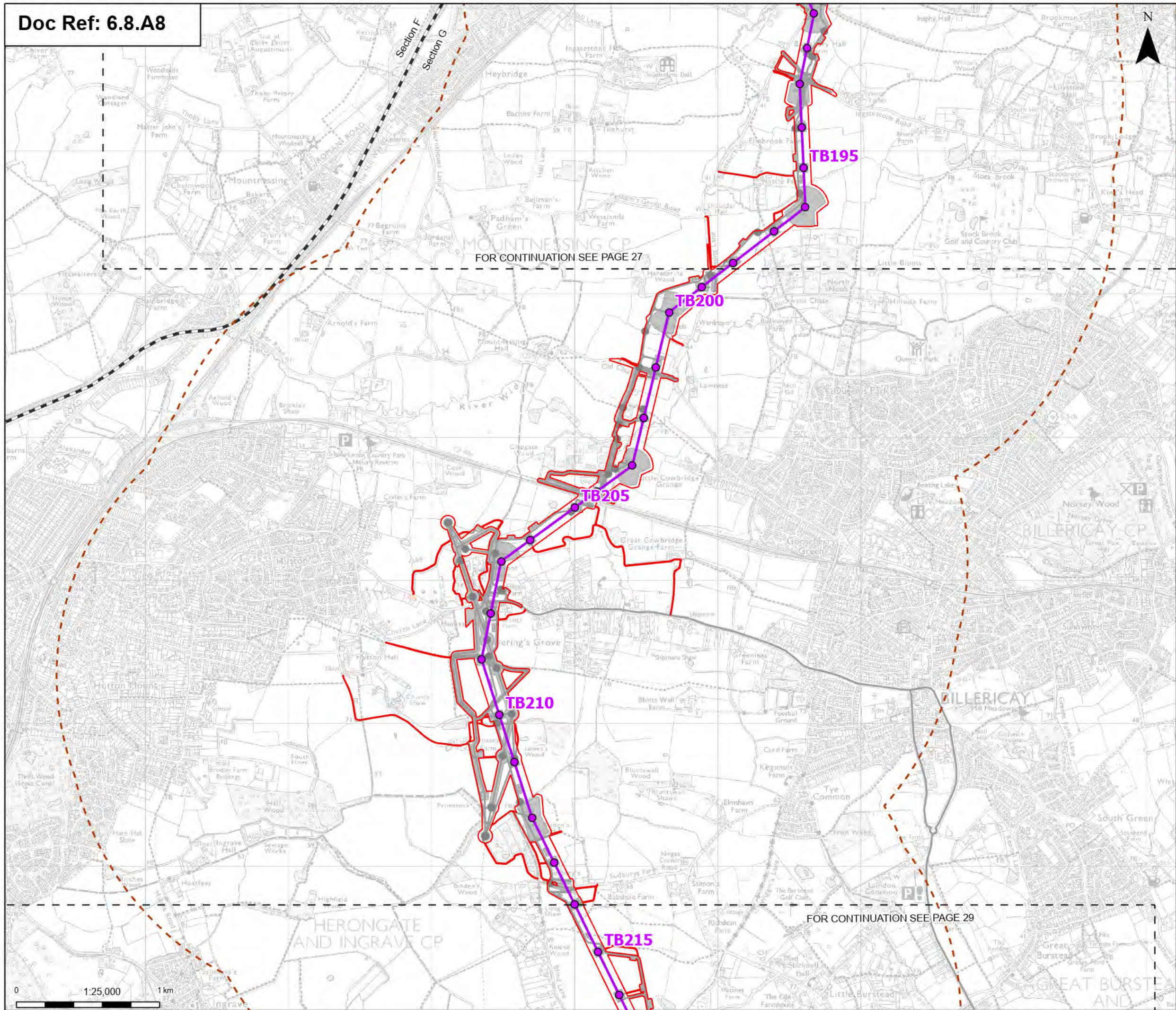
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Regulation 5(2)(a)

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Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
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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

Accepted as Concept Stage

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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

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

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Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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

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Title:
Figure A8.8.5 - Ecology and Biodiversity-
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Wildfowl (Desk Study Data 2013-2022)
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Scale:	1:25,000	Datum:	AOD
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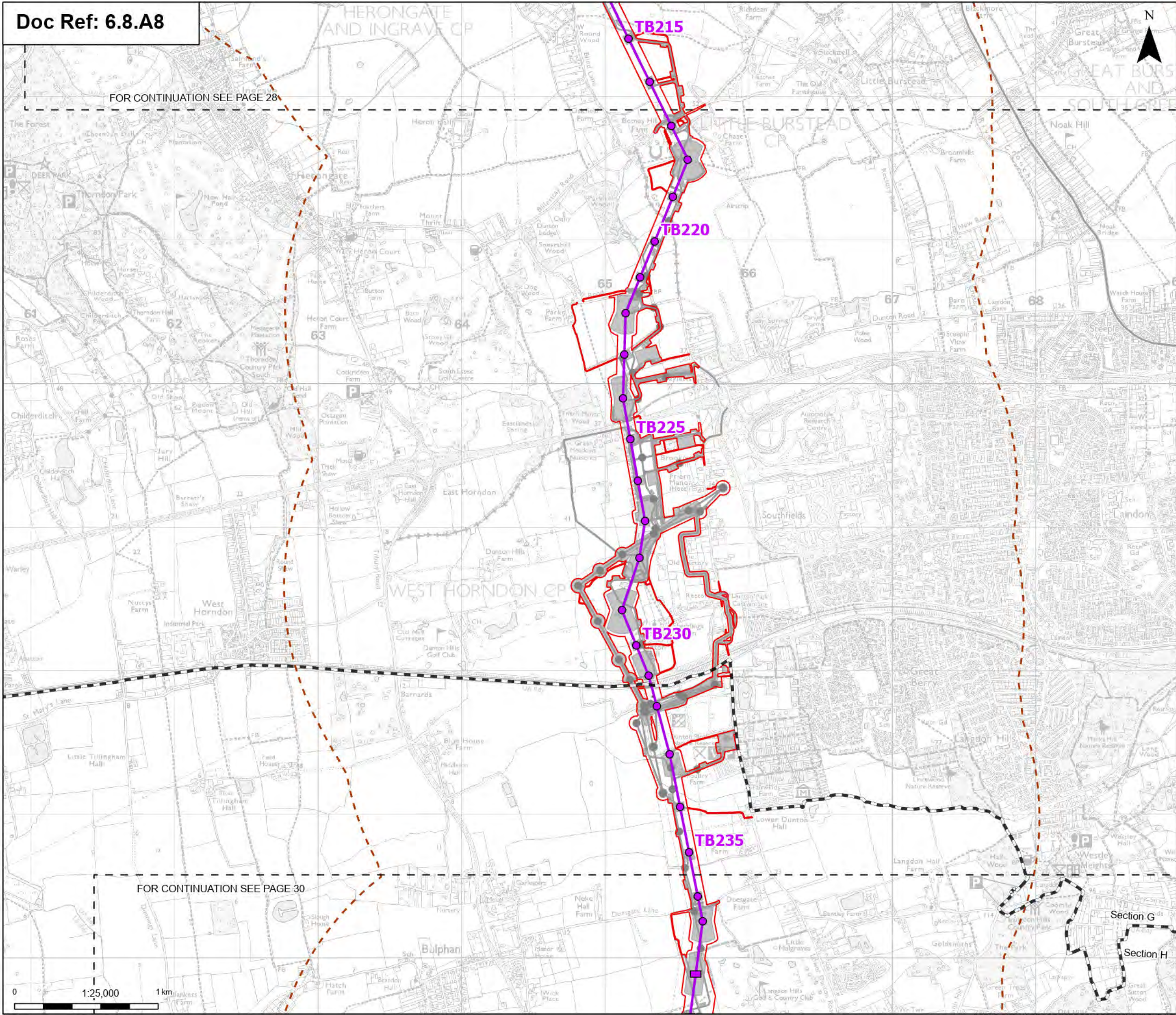
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Revision:
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Proposed low height pylon location

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

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

Pochard (PO)

Scaup (SP)

Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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**

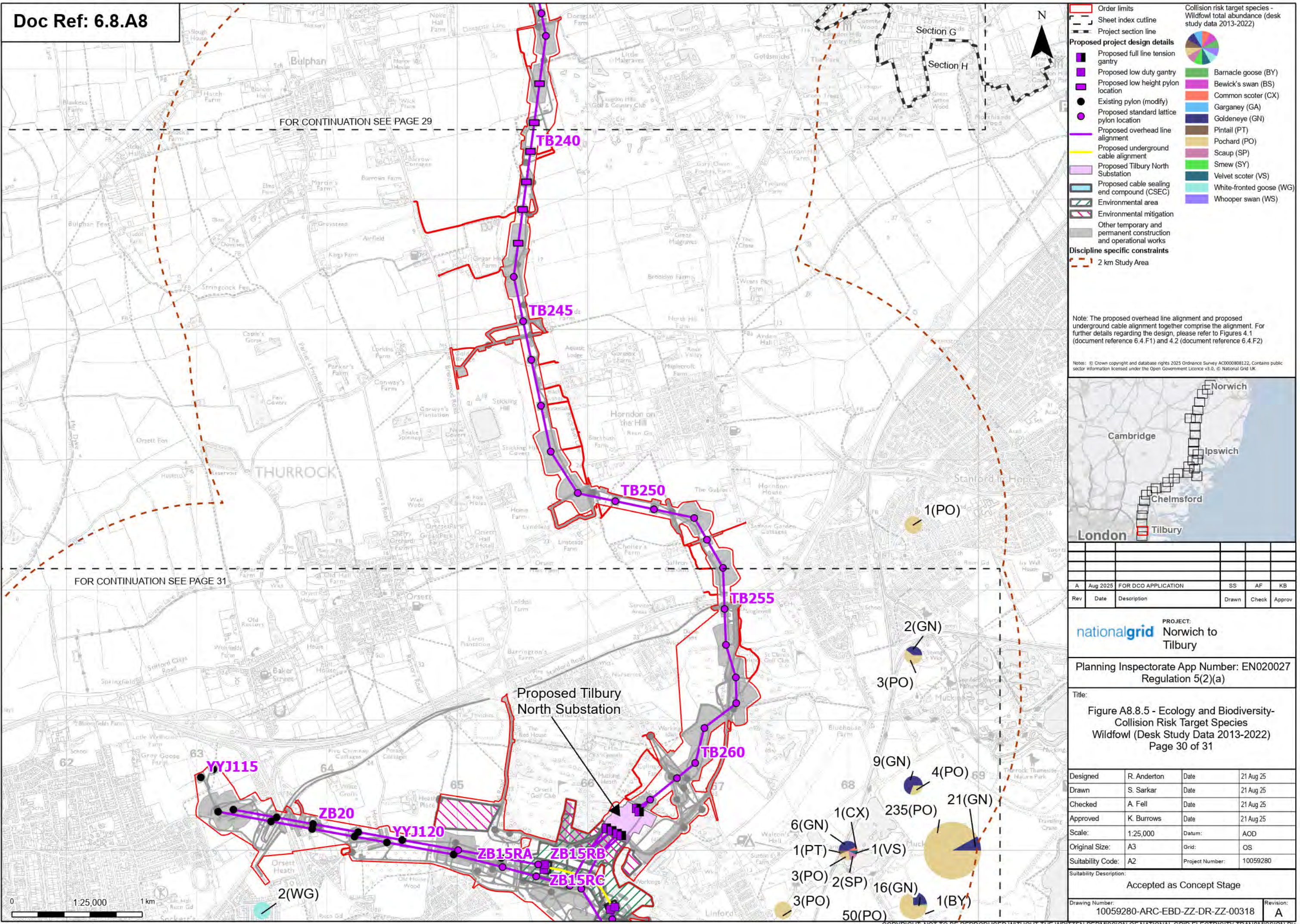
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Regulation 5(2)(a)

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Figure A8.8.5 - Ecology and Biodiversity- Collision Risk Target Species Wildfowl (Desk Study Data 2013-2022)
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Designed	R. Anderton	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-00318** Revision: **A**



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PROJECT:
nationalgrid Norwich to Tilbury

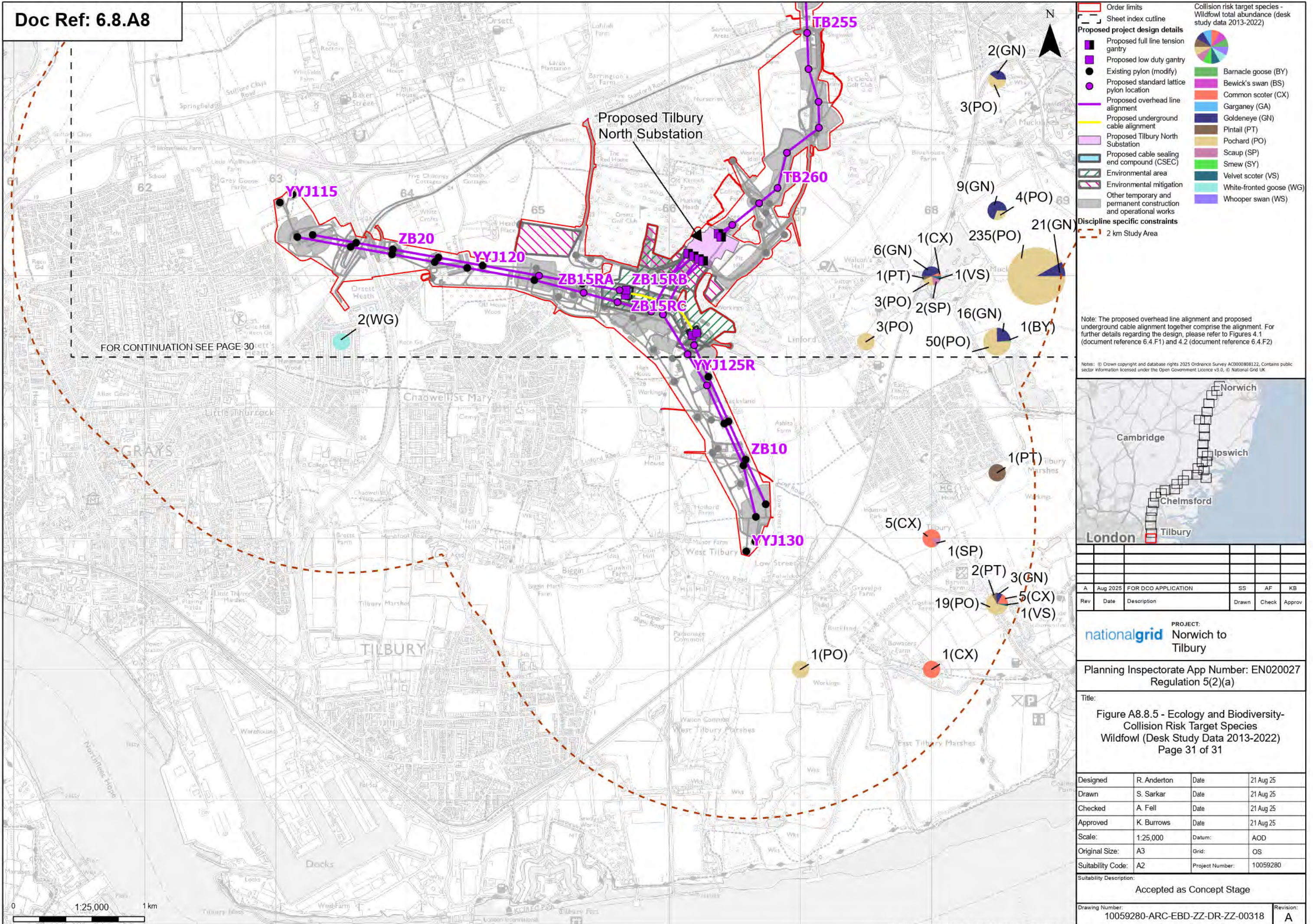
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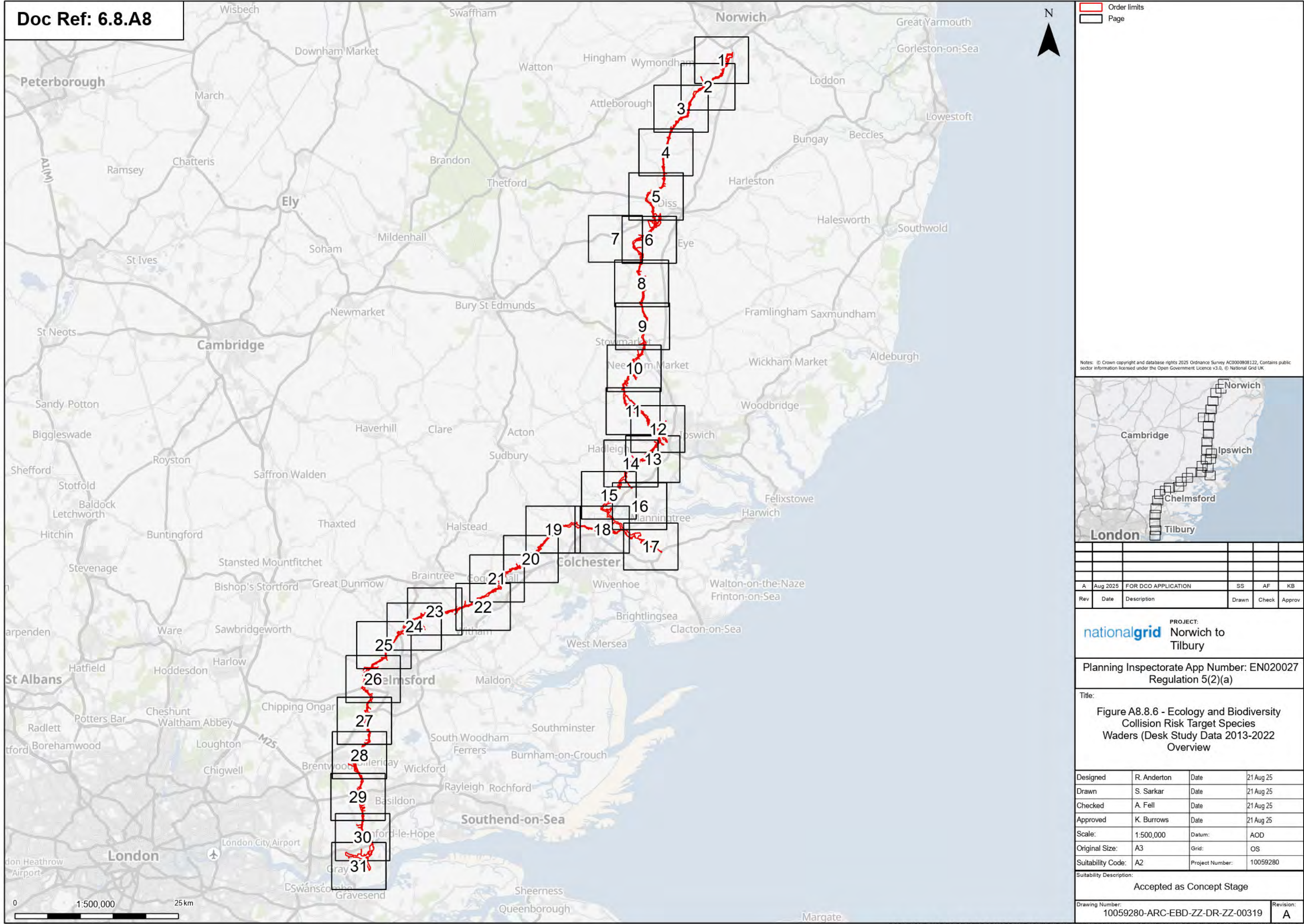
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Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
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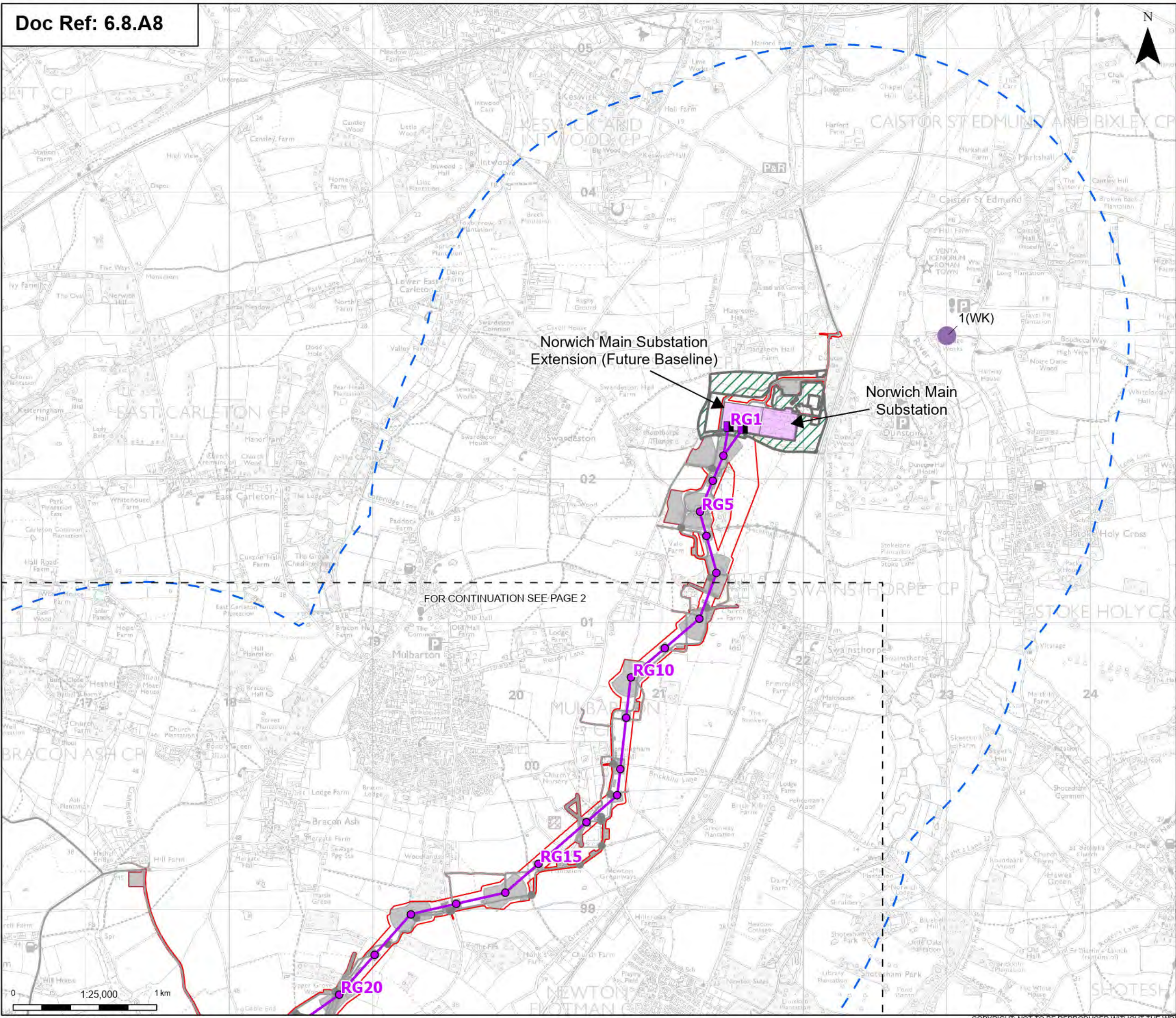
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

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Order limits

Sheet index outline

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

Collision risk target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

Lapwing (L)

Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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**

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

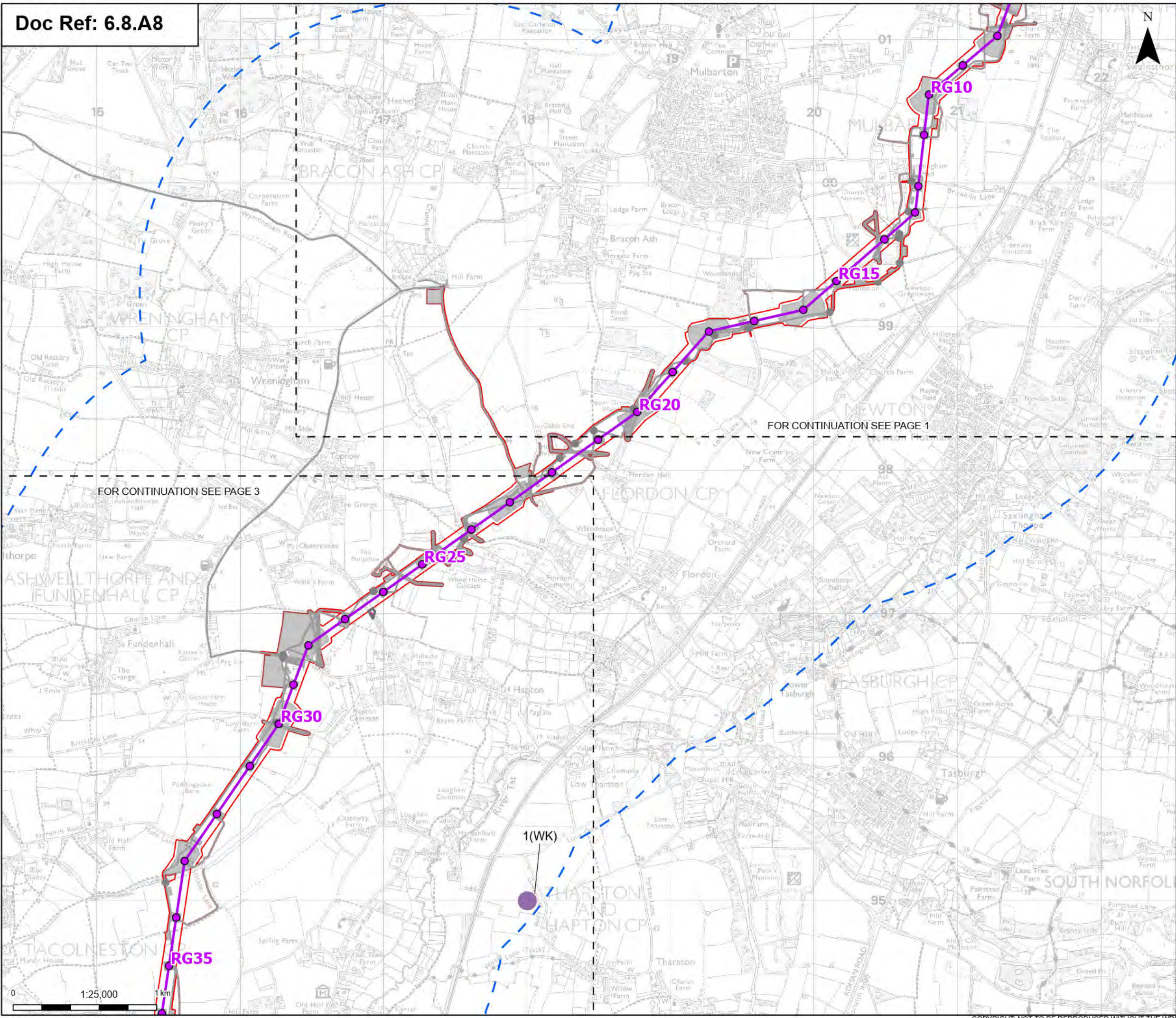
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Collision Risk Target Species
Waders (Desk Study Data 2013-2022
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Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00319	Revision: A
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Order limits

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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

Collision risk target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

Lapwing (L)

Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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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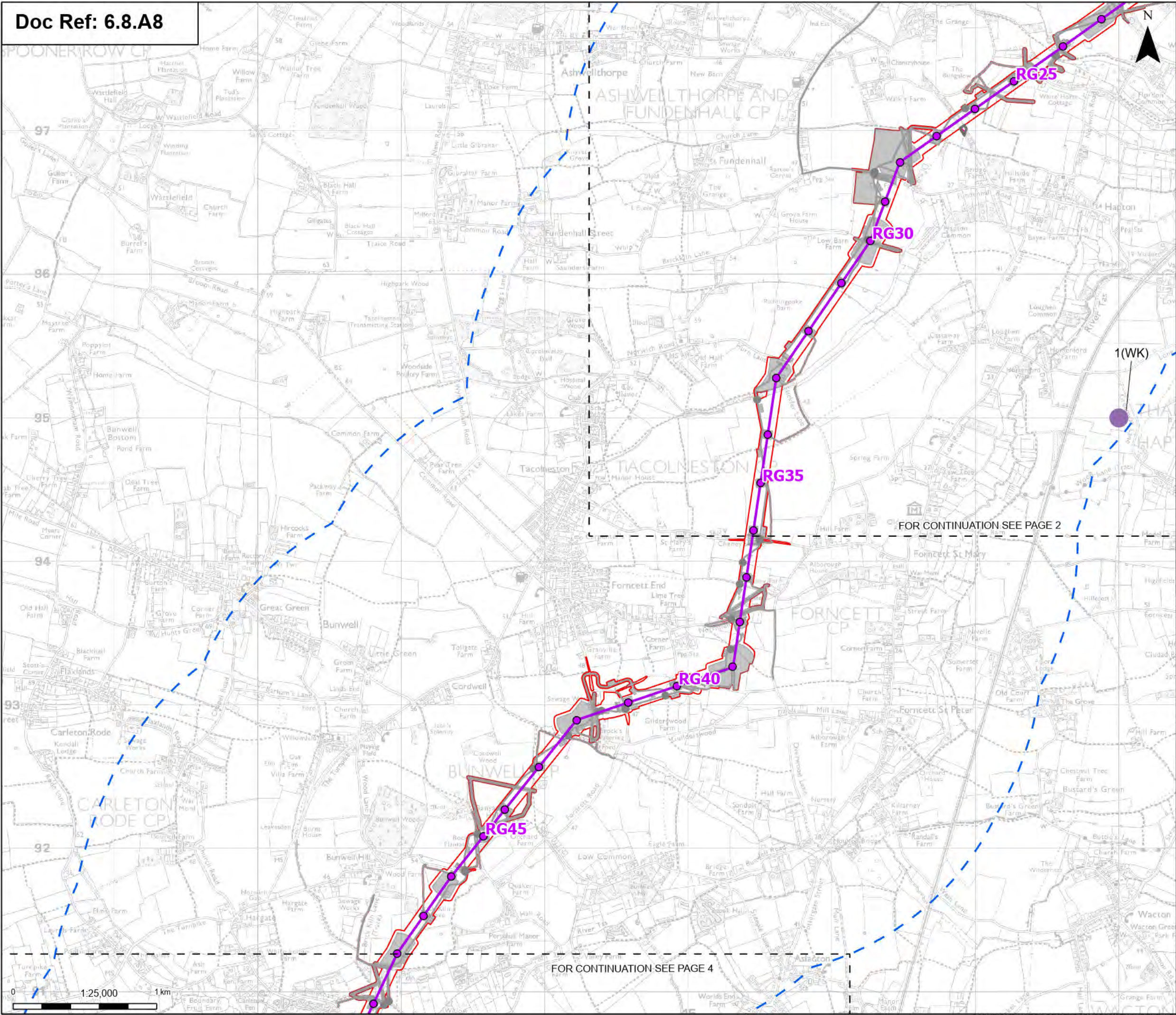
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Regulation 5(2)(a)

Title:
Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
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Proposed standard lattice pylon location

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Discipline specific constraints

2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

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PROJECT:
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Planning Inspectorate App Number: EN020027
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Title:
Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
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Collision risk target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

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PROJECT: **Norwich to Tilbury**

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

Title:
**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
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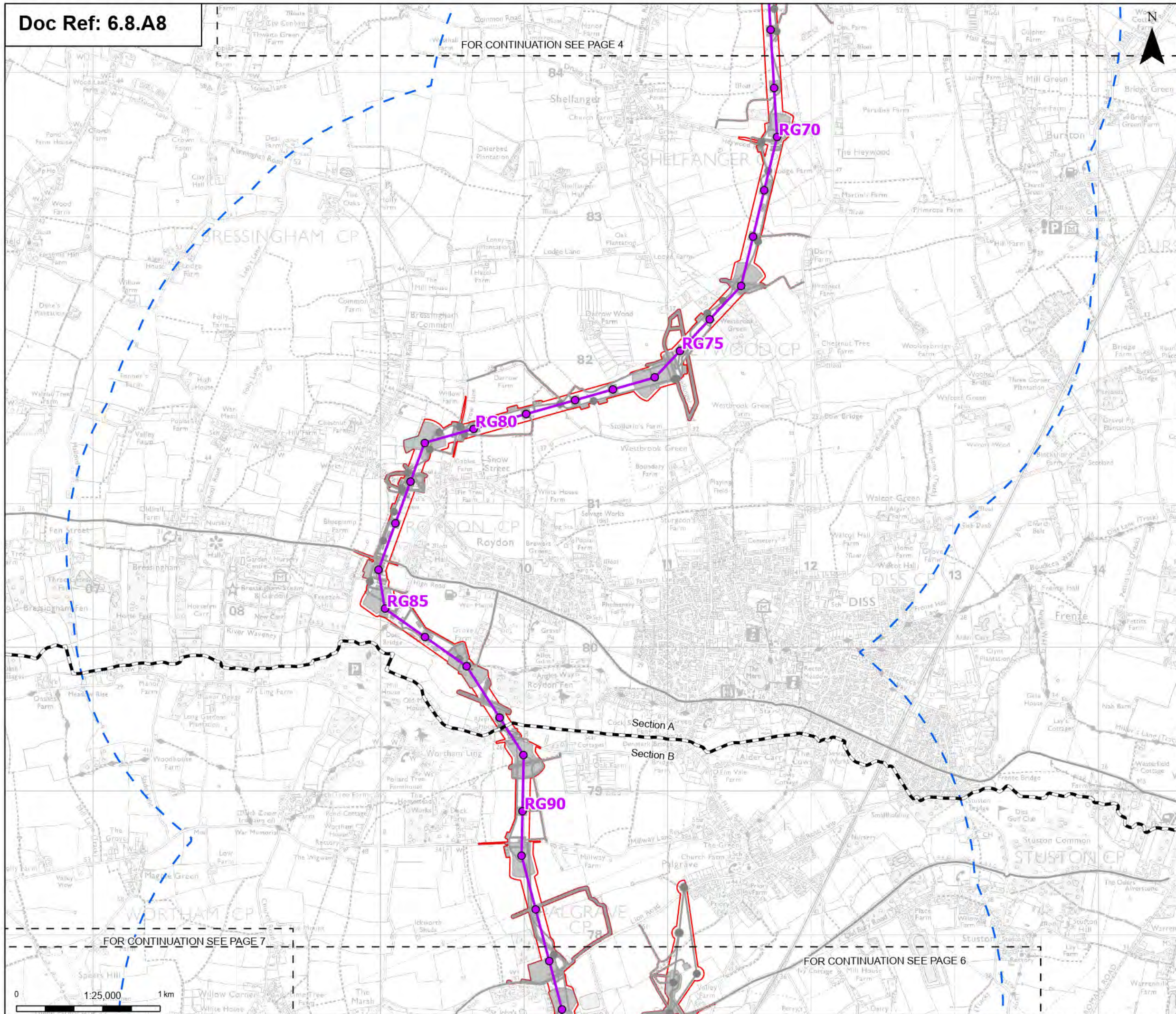
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Suitability Code:	A2	Project Number:	10059280

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Proposed overhead line alignment
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Other temporary and permanent construction and operational works

Discipline specific constraints
2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

- Avocet (AV)
- Bar-tailed godwit (BA)
- Black-tailed godwit (BW)
- Curlew (CU)
- Dunlin (DN)
- Golden plover (GP)
- Green sandpiper (GE)
- Greenshank (GK)
- Lapwing (L)
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- Ringed plover (RP)
- Ruff (RU)
- Whimbrel (WM)
- Wood sandpiper (OD)
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PROJECT:
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Planning Inspectorate App Number: EN020027
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Title:
Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
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Proposed overhead line alignment

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Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

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

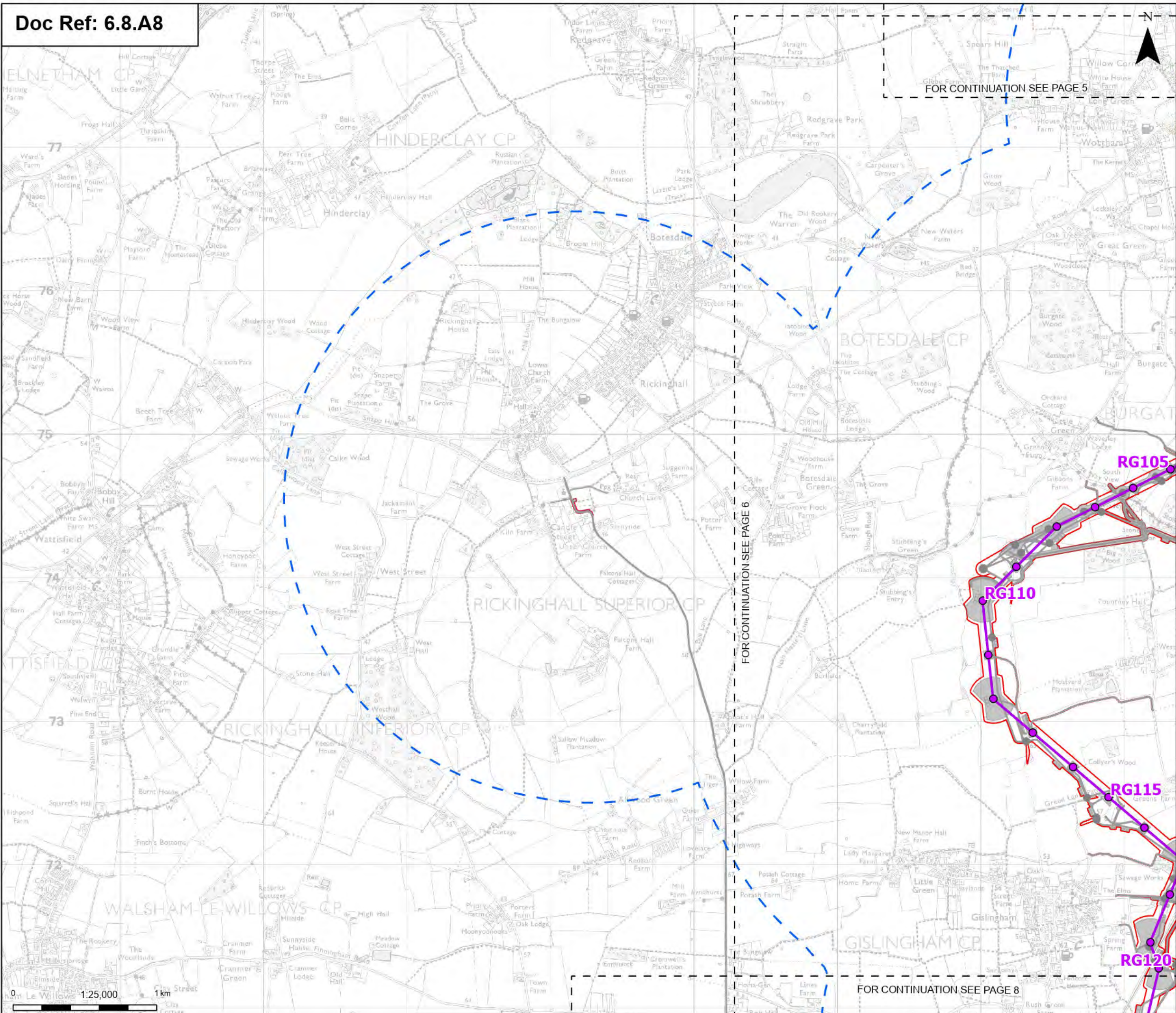
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Waders (Desk Study Data 2013-2022
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Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

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Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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PROJECT: **nationalgrid** Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:
Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
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Drawn	S. Sarkar	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

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Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

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PROJECT:
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Tilbury

Planning Inspectorate App Number: EN020027
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Title:
Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
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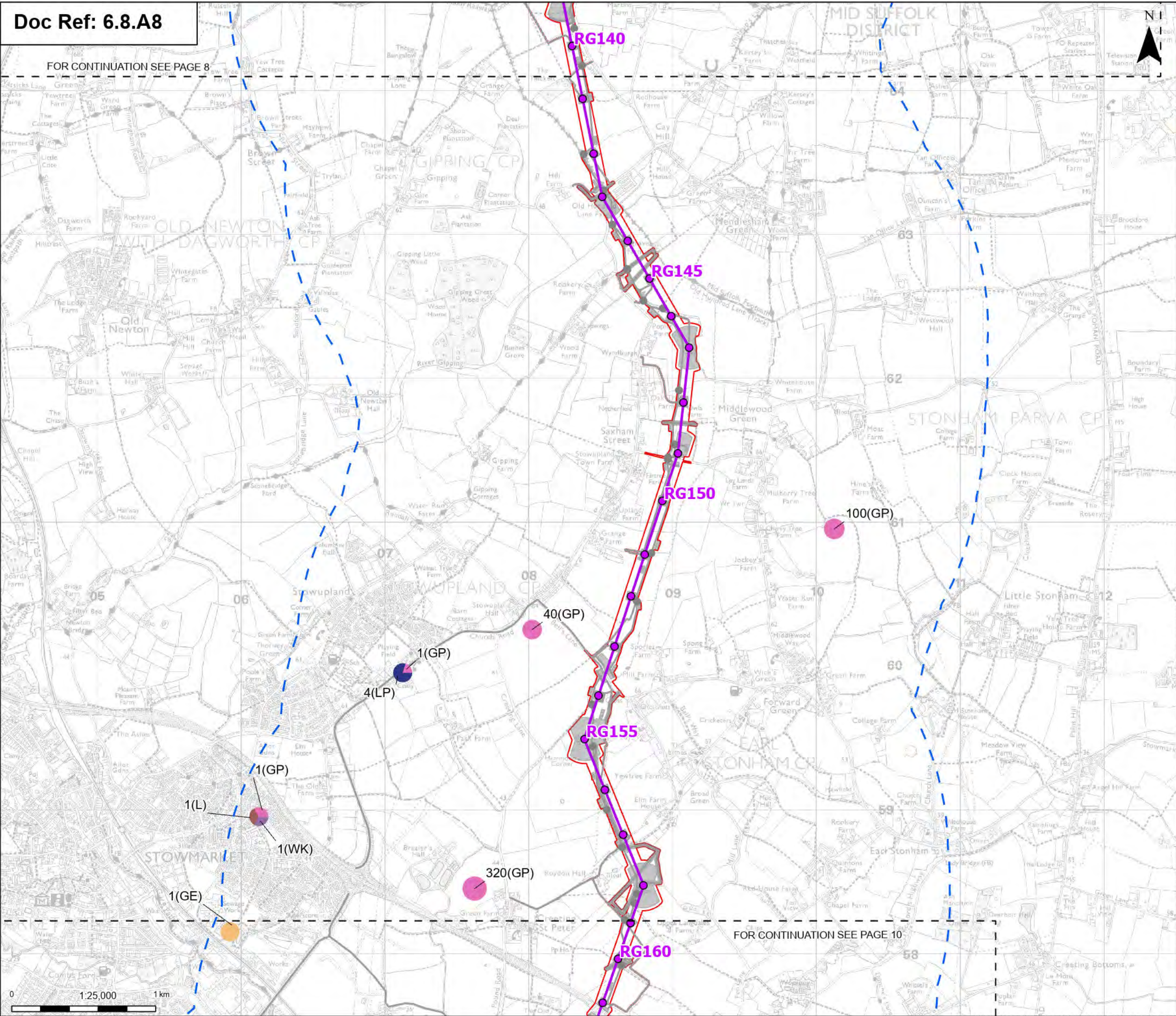
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- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Other temporary and permanent construction and operational works

Discipline specific constraints

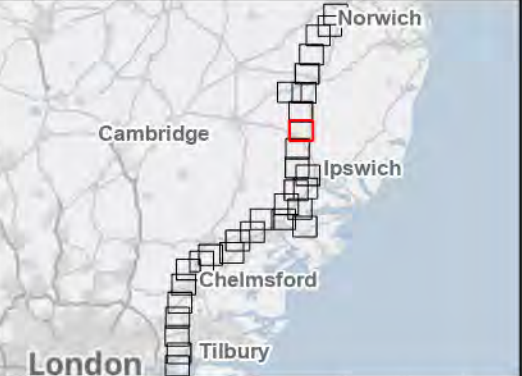
- 2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

- Avocet (AV)
- Bar-tailed godwit (BA)
- Black-tailed godwit (BW)
- Curlew (CU)
- Dunlin (DN)
- Golden plover (GP)
- Green sandpiper (GE)
- Greenshank (GK)
- Lapwing (L)
- Little ringed plover (LP)
- Ringed plover (RP)
- Ruff (RU)
- Whimbrel (WM)
- Wood sandpiper (OD)
- Woodcock (WK)

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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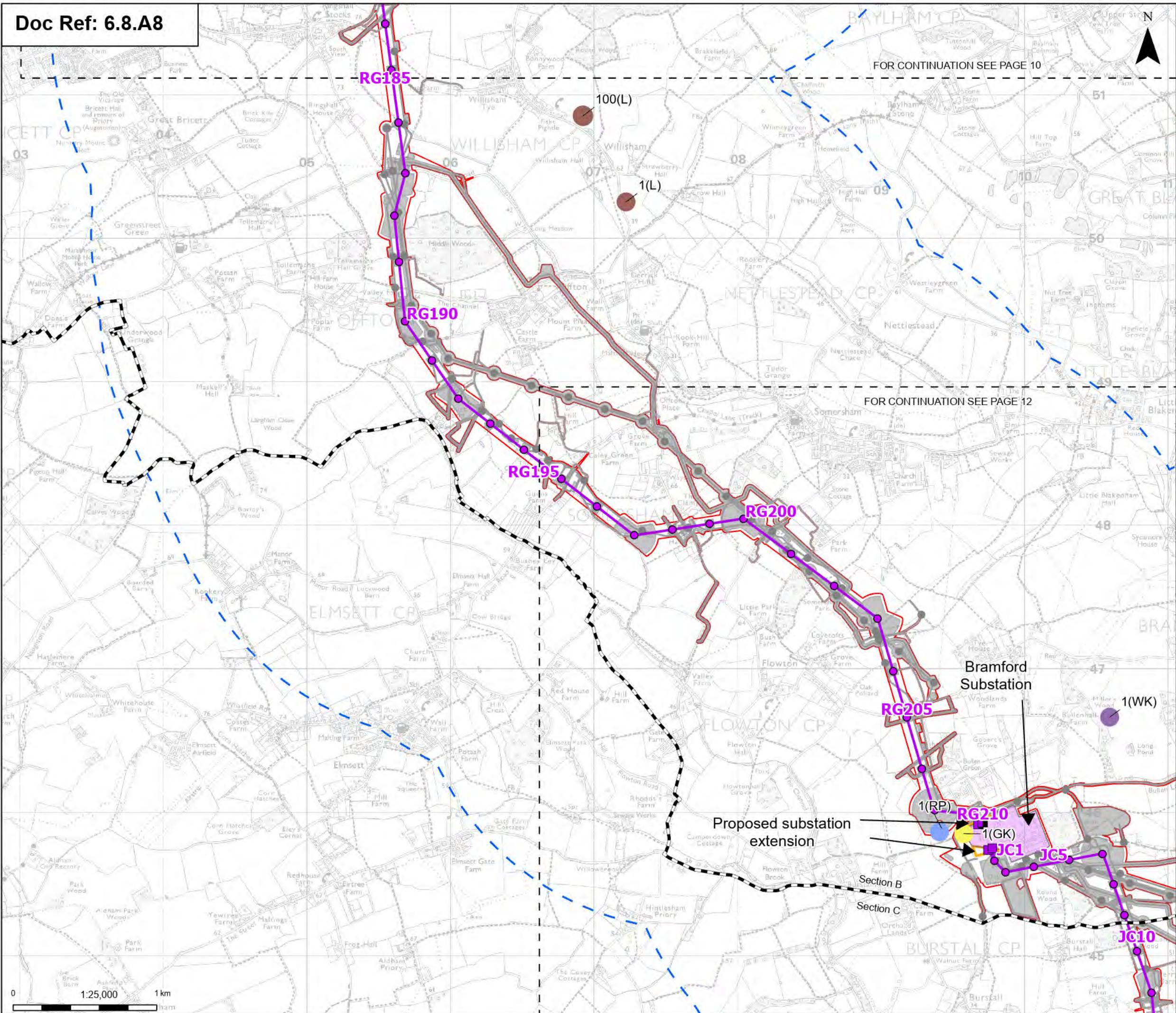
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**Figure A8.8.6 - Ecology and Biodiversity
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Waders (Desk Study Data 2013-2022
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Accepted as Concept Stage

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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

Collision risk target species - Waders total abundance (desk study data 2013-2022)

Species	Abundance
Avocet (AV)	1
Bar-tailed godwit (BA)	1
Black-tailed godwit (BW)	1
Curlew (CU)	1
Dunlin (DN)	1
Golden plover (GP)	1
Green sandpiper (GE)	1
Greenshank (GK)	1
Lapwing (L)	1
Little ringed plover (LP)	1
Ringed plover (RP)	1
Ruff (RU)	1
Whimbrel (WM)	1
Wood sandpiper (OD)	1
Woodcock (WK)	1

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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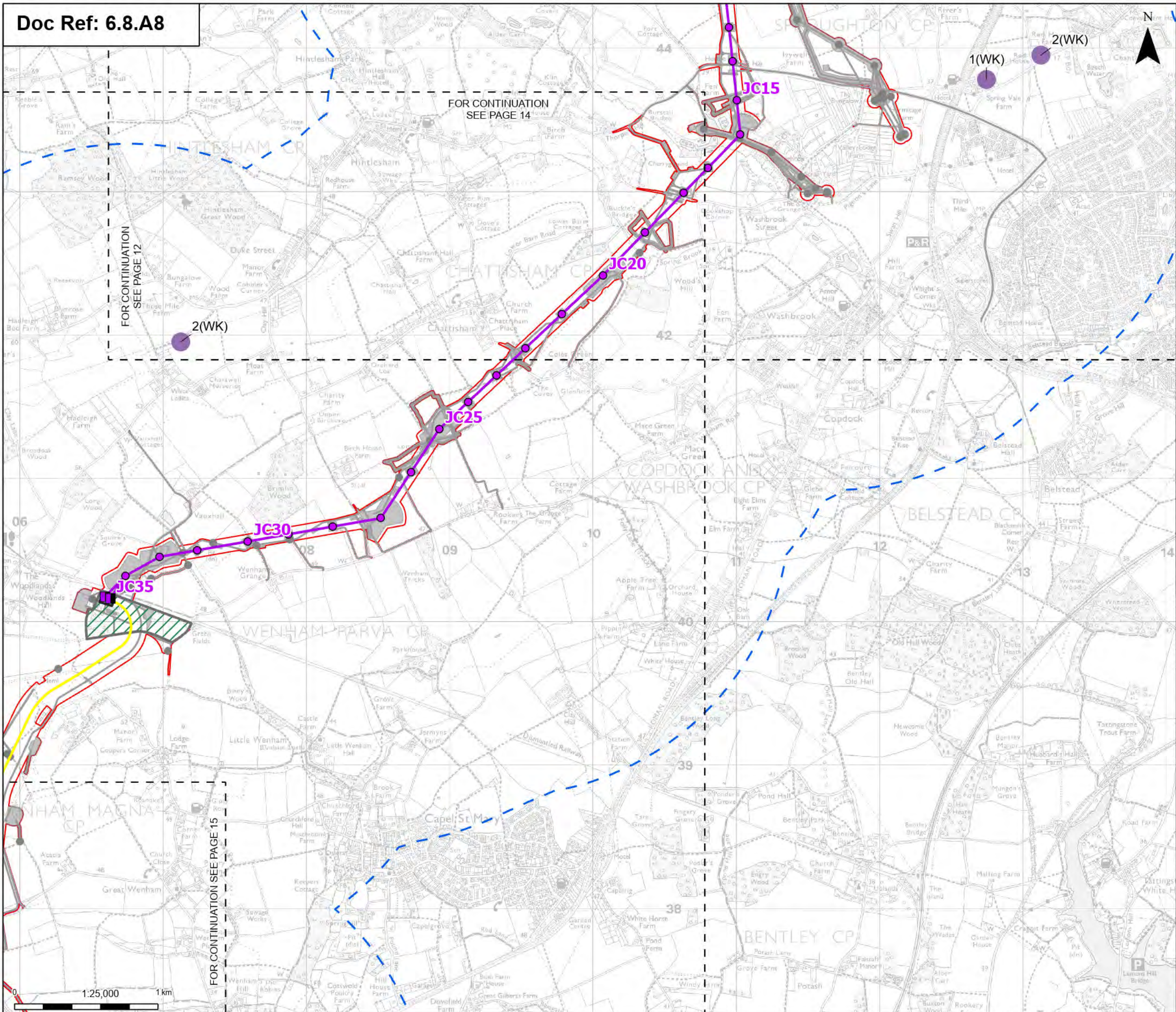
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Waders (Desk Study Data 2013-2022
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Proposed underground cable alignment

Proposed cable sealing end compound (CSEC)

Environmental area

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

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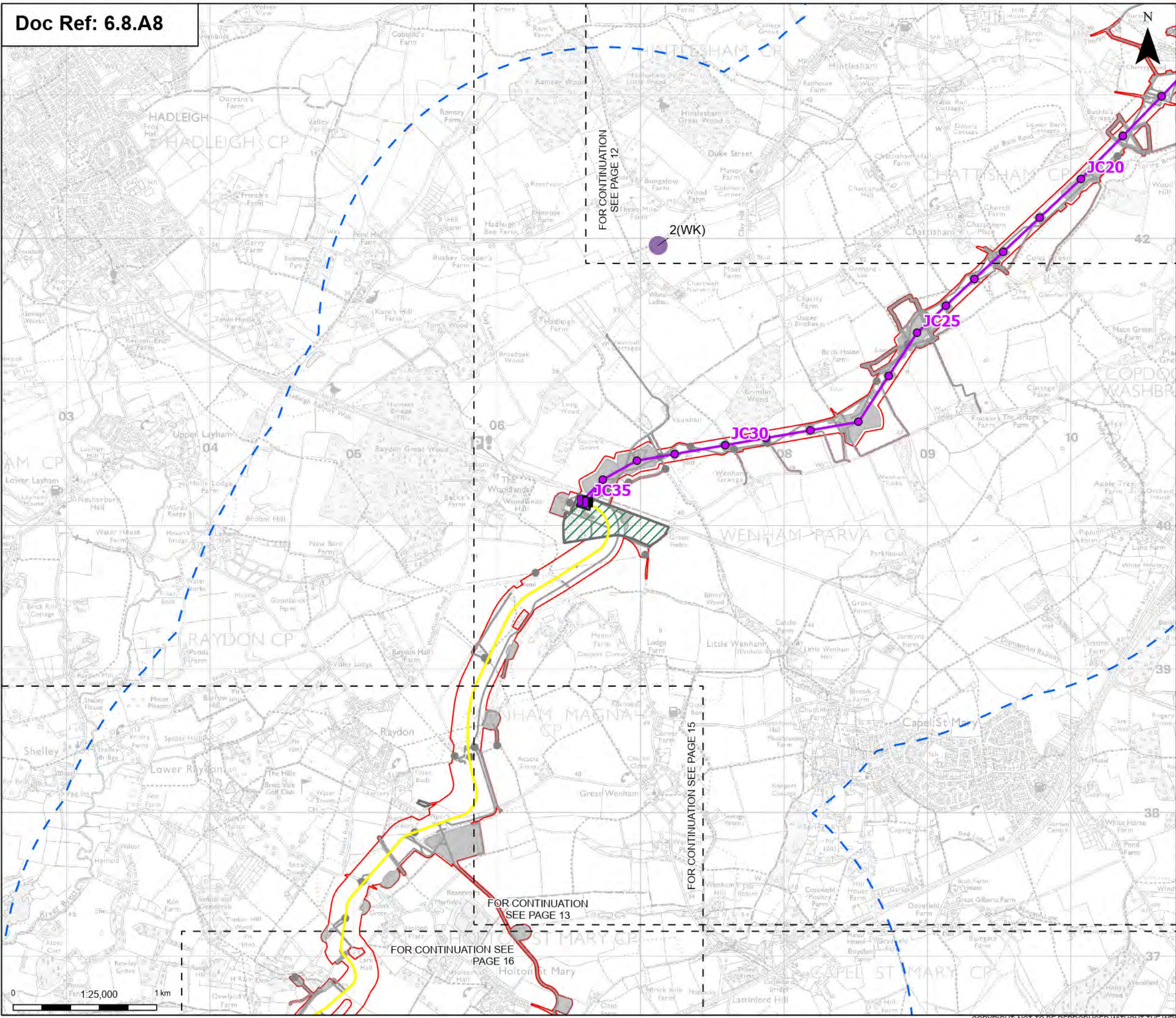
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- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

- Avocet (AV)
- Bar-tailed godwit (BA)
- Black-tailed godwit (BW)
- Curlew (CU)
- Dunlin (DN)
- Golden plover (GP)
- Green sandpiper (GE)
- Greenshank (GK)
- Lapwing (L)
- Little ringed plover (LP)
- Ringed plover (RP)
- Ruff (RU)
- Whimbrel (WM)
- Wood sandpiper (OD)
- Woodcock (WK)

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PROJECT: **Norwich to Tilbury**

Planning Inspectorate App Number: EN020027
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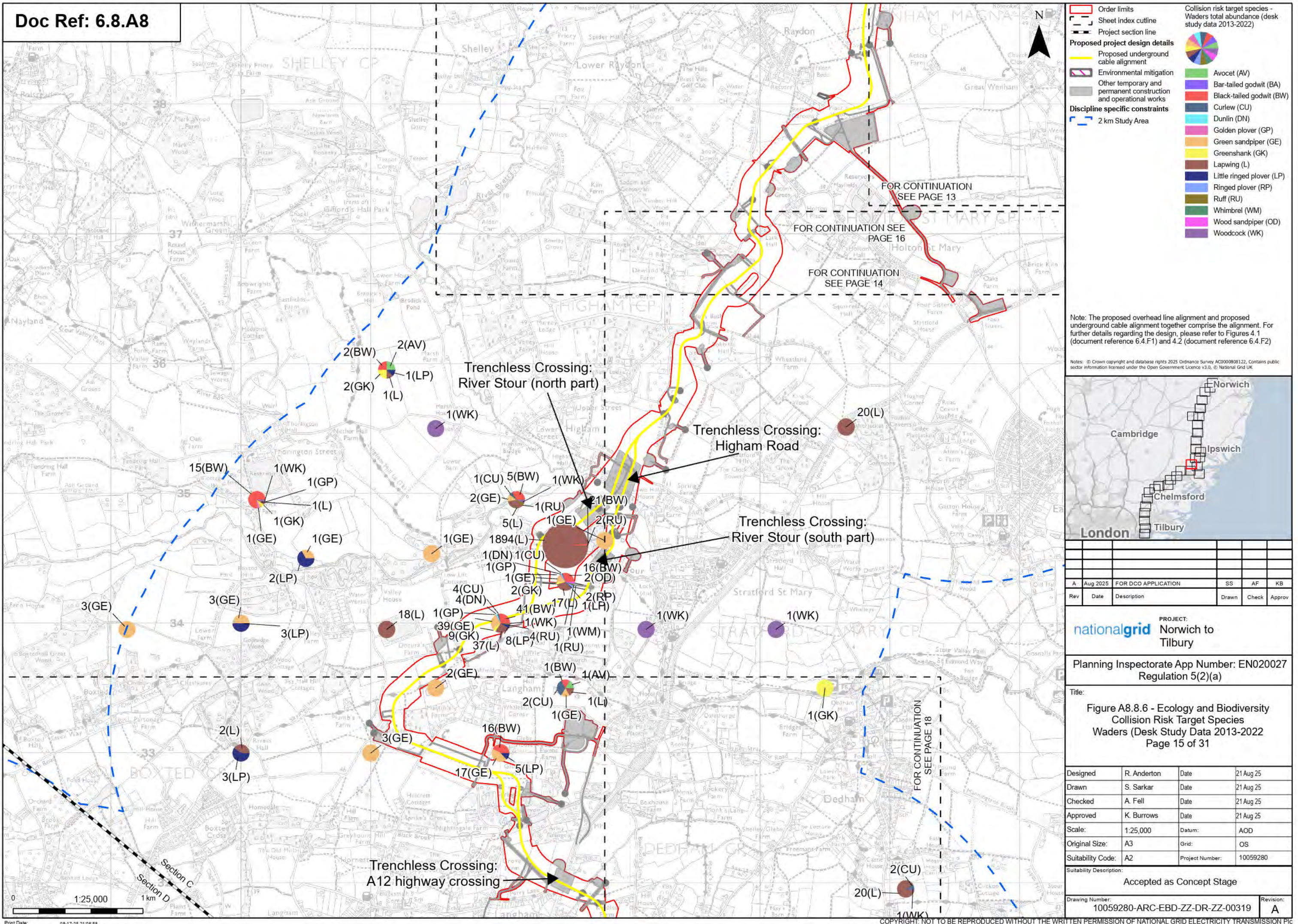
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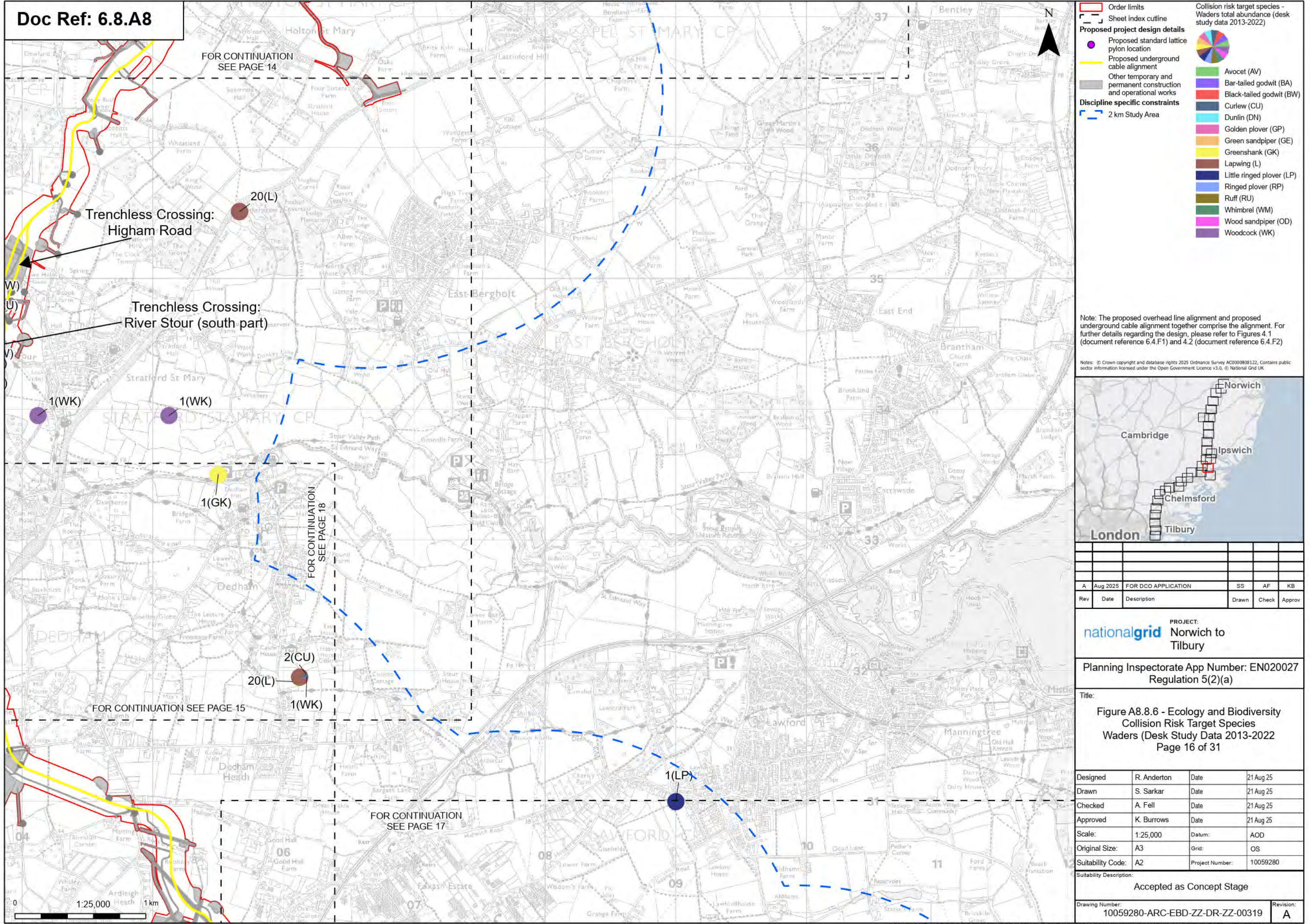
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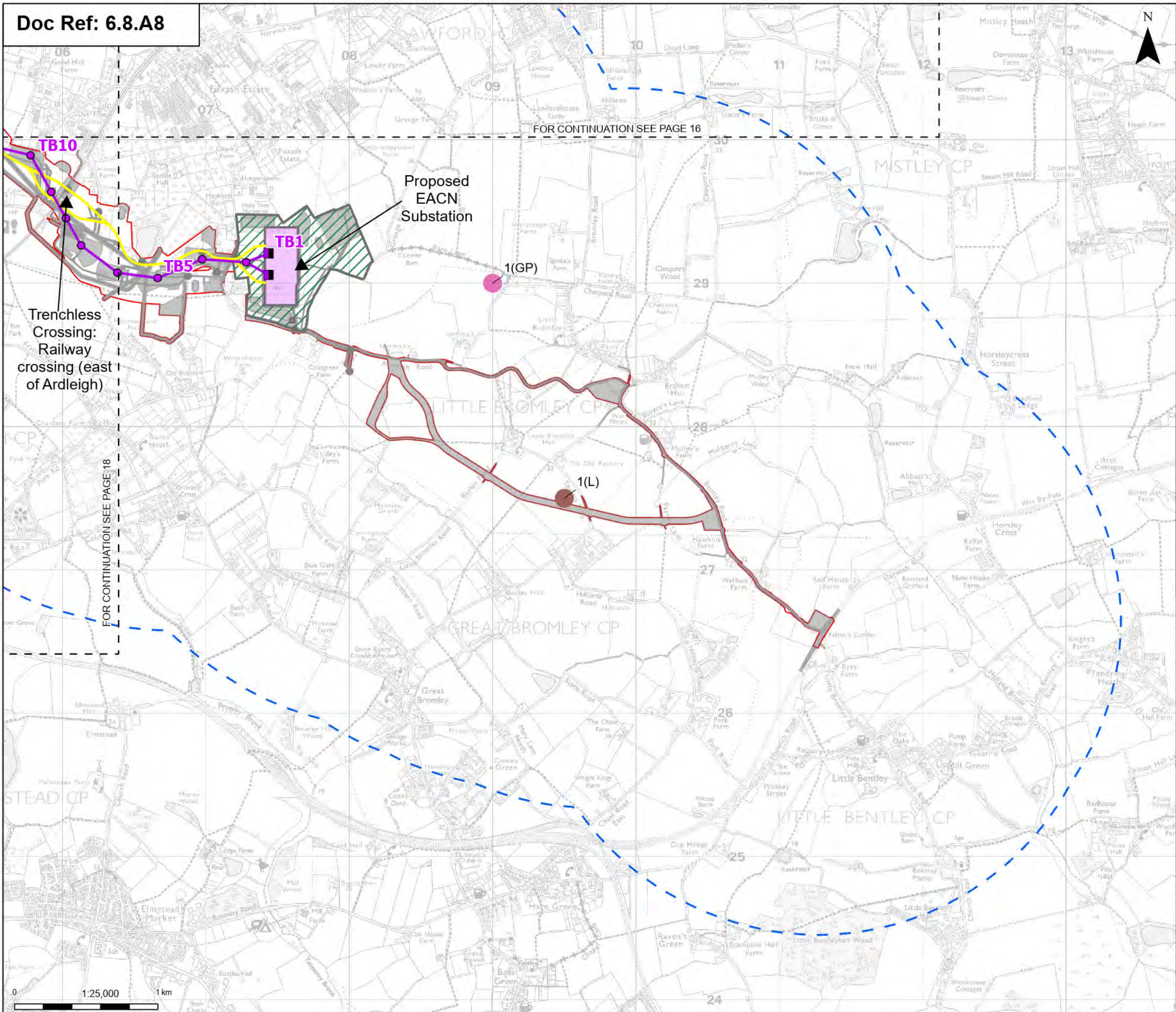
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Suitability Description:
Accepted as Concept Stage

Drawing Number:	10059280-ARC-EBD-ZZ-DR-ZZ-00319	Revision:	A
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Order limits

Sheet index outline

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

Collision risk target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

Lapwing (L)

Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

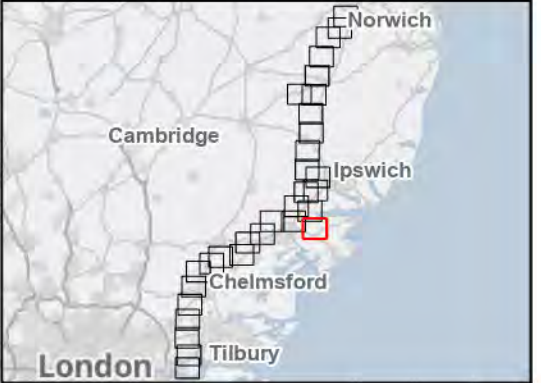
Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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 2025	FOR DCO APPLICATION	SS	AF	KB
Rev	Date	Description	Drawn	Check	Approv

PROJECT: **Norwich to Tilbury**

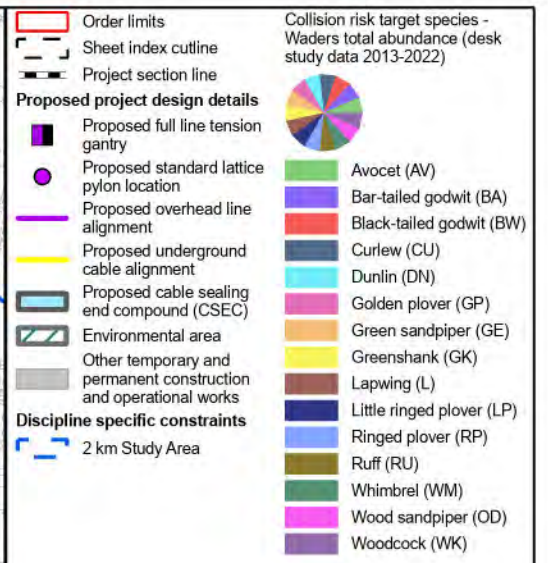
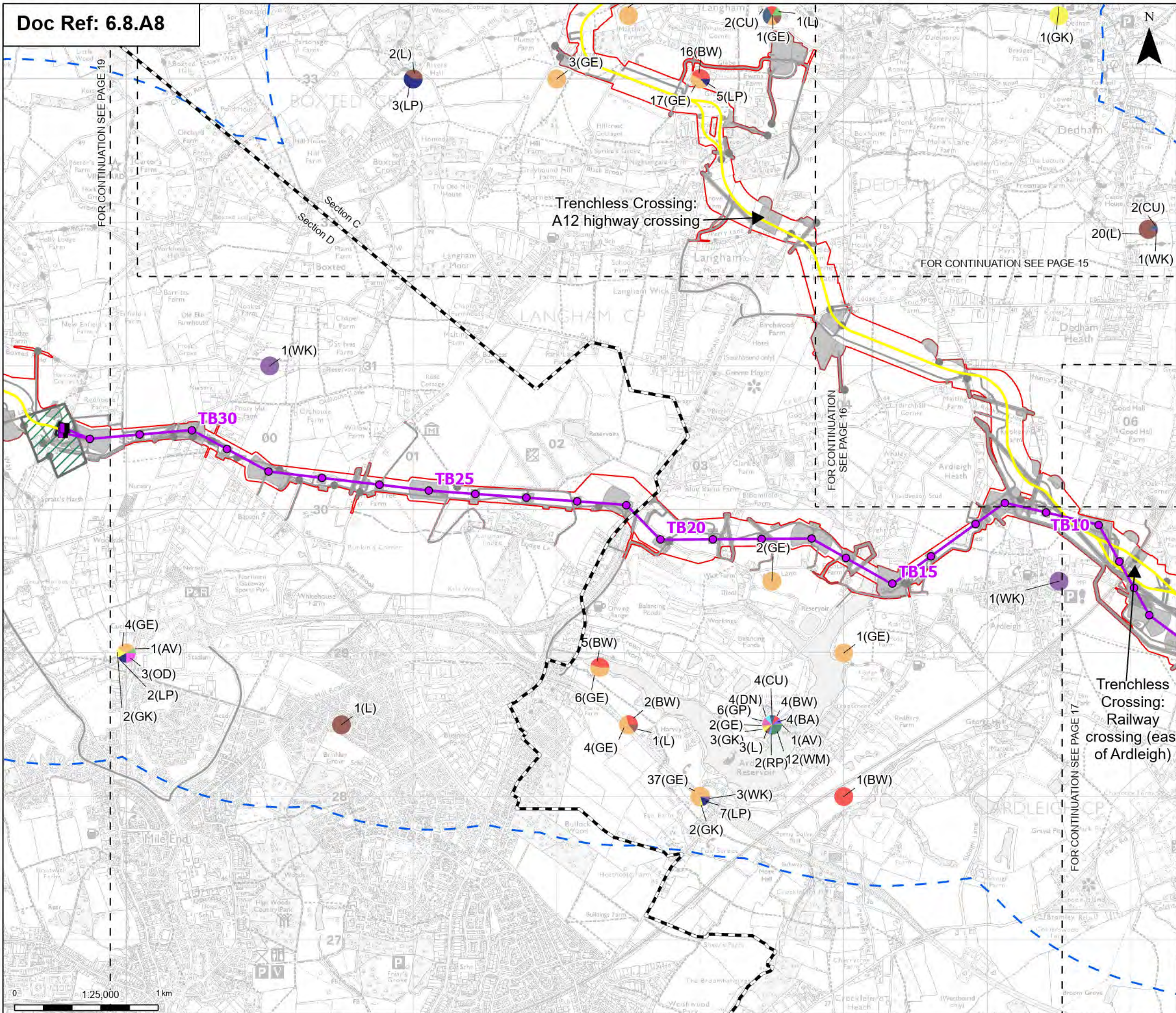
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
Page 17 of 31**

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	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-00319
Revision: A



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 2025	FOR DCO APPLICATION	SS	AF	KB

PROJECT: **Norwich to Tilbury**

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

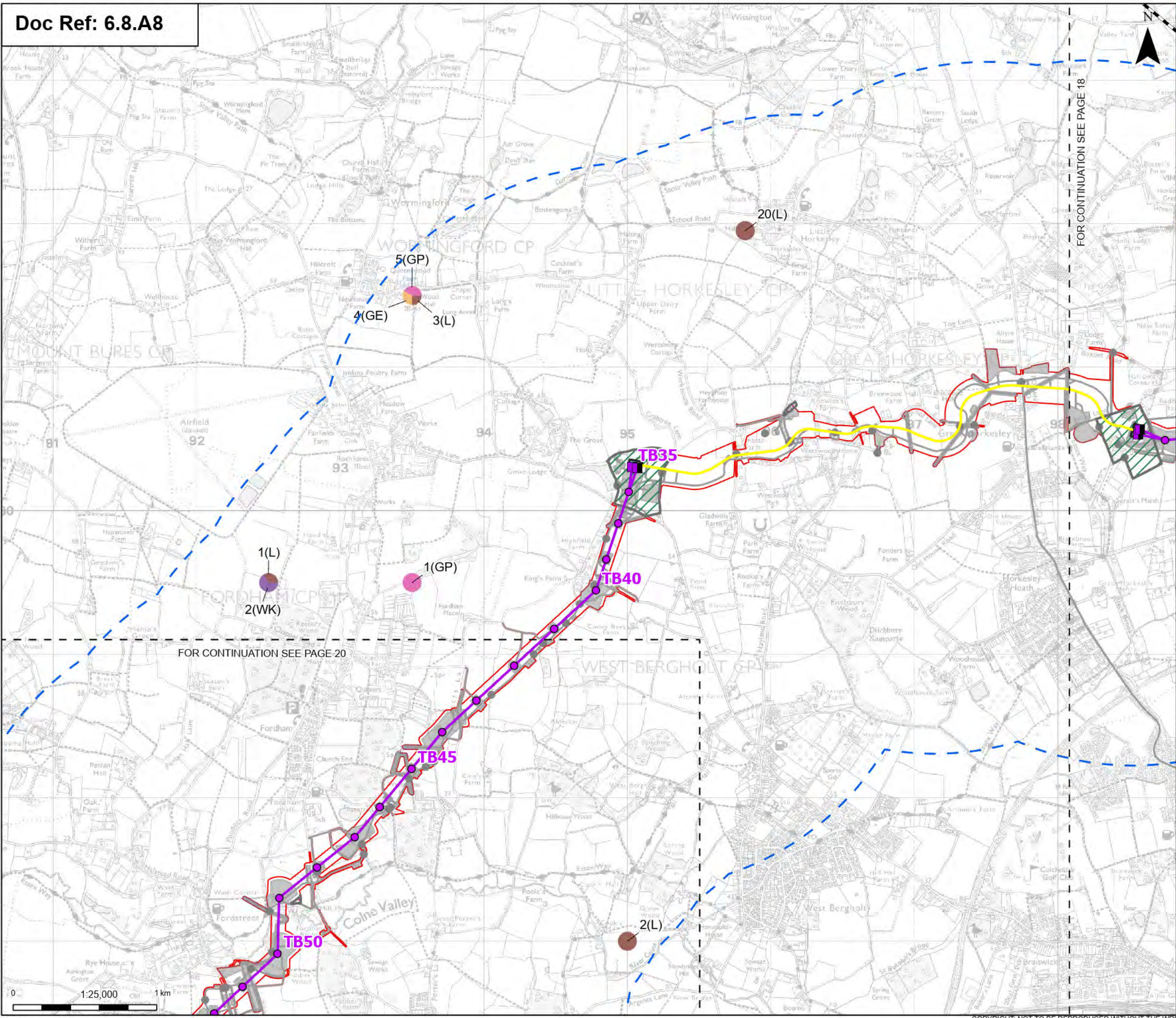
Title:
**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
Page 18 of 31**

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	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-00319

Revision:
A



Order limits

Sheet index outline

Project section line

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

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

Lapwing (L)

Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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 2025	FOR DCO APPLICATION	SS	AF	KB

nationalgrid

PROJECT:

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

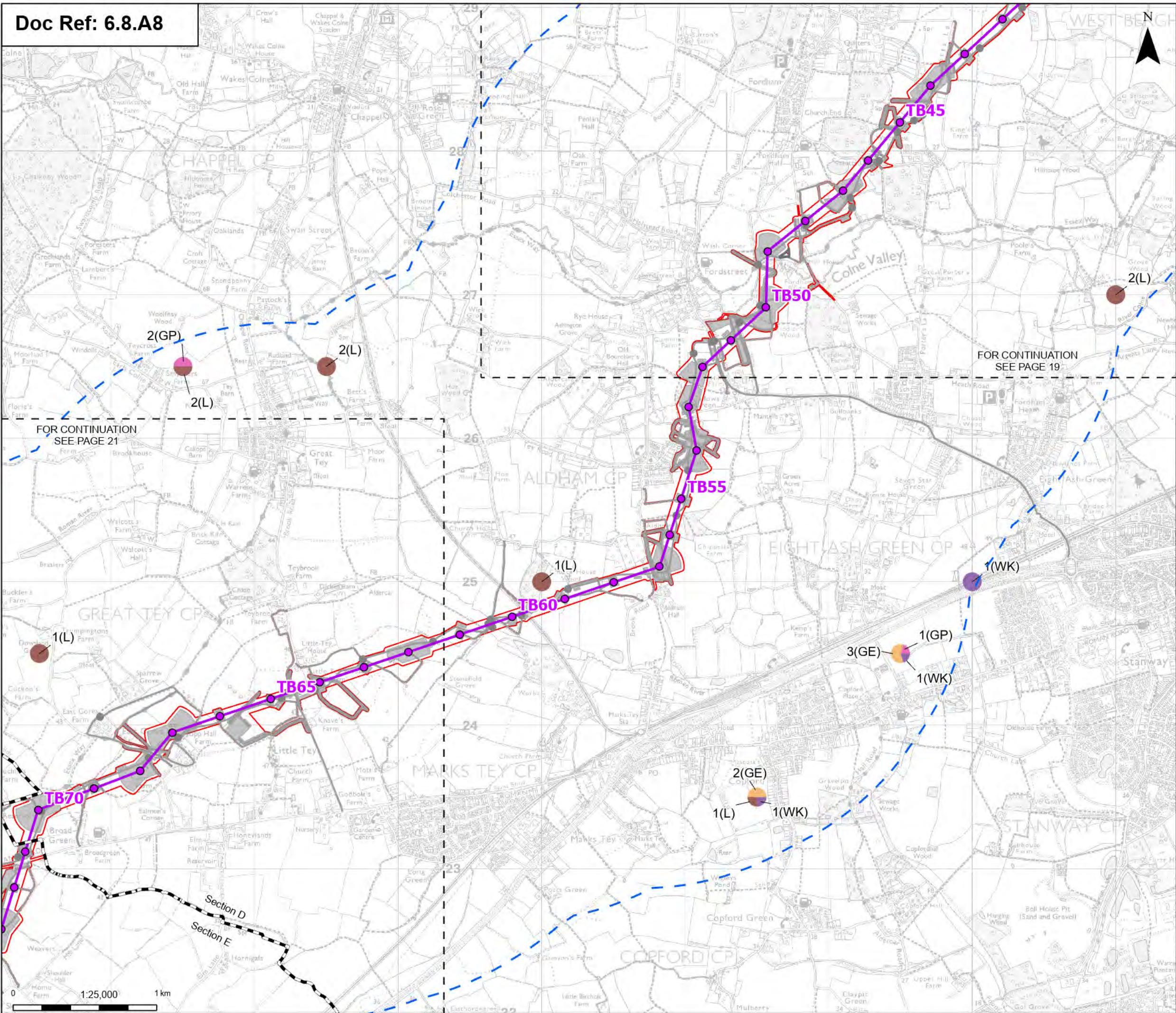
Regulation 5(2)(a)

Title:
Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
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Designed	R. Anderton	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-00319	Revision:	A
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Order limits
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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

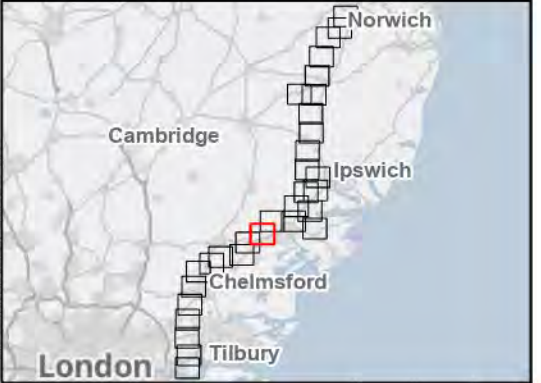
Discipline specific constraints
2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

- Avocet (AV)
- Bar-tailed godwit (BA)
- Black-tailed godwit (BW)
- Curlew (CU)
- Dunlin (DN)
- Golden plover (GP)
- Green sandpiper (GE)
- Greenshank (GK)
- Lapwing (L)
- Little ringed plover (LP)
- Ringed plover (RP)
- Ruff (RU)
- Whimbrel (WM)
- Wood sandpiper (OD)
- Woodcock (WK)

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**

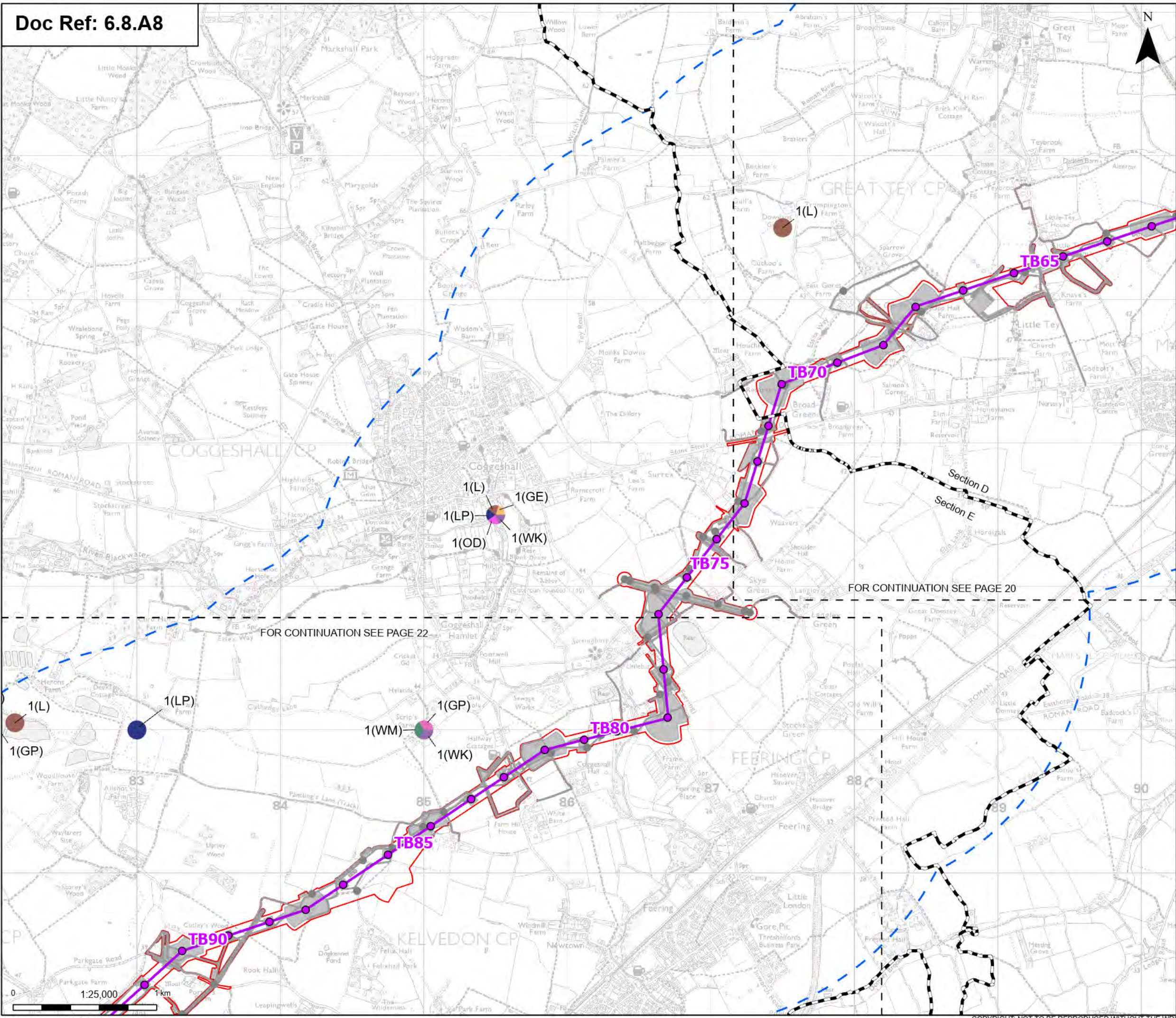
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Regulation 5(2)(a)

Title:
**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
Page 20 of 31**

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	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-00319
Revision: A



Order limits
Sheet index outline
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

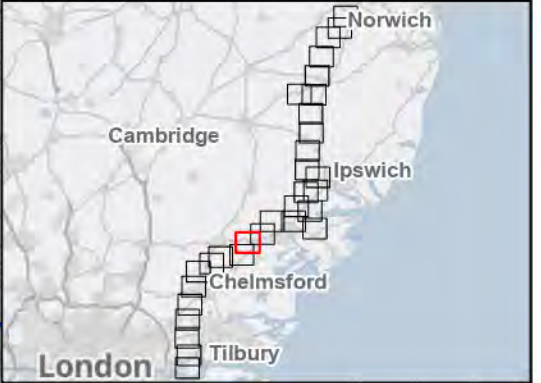
Discipline specific constraints
2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

- Avocet (AV)
- Bar-tailed godwit (BA)
- Black-tailed godwit (BW)
- Curlew (CU)
- Dunlin (DN)
- Golden plover (GP)
- Green sandpiper (GE)
- Greenshank (GK)
- Lapwing (L)
- Little ringed plover (LP)
- Ringed plover (RP)
- Ruff (RU)
- Whimbrel (WM)
- Wood sandpiper (OD)
- Woodcock (WK)

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**

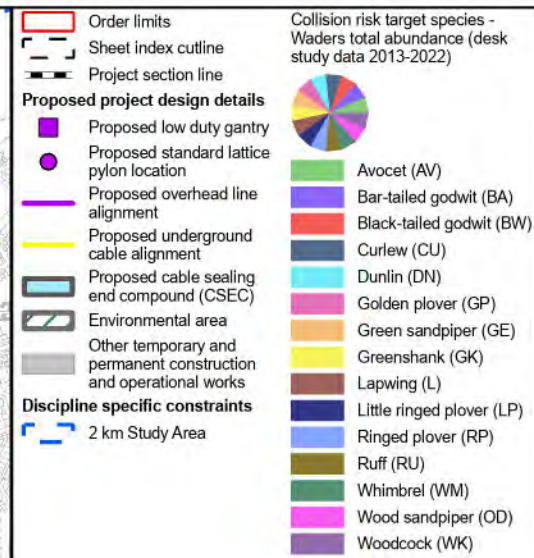
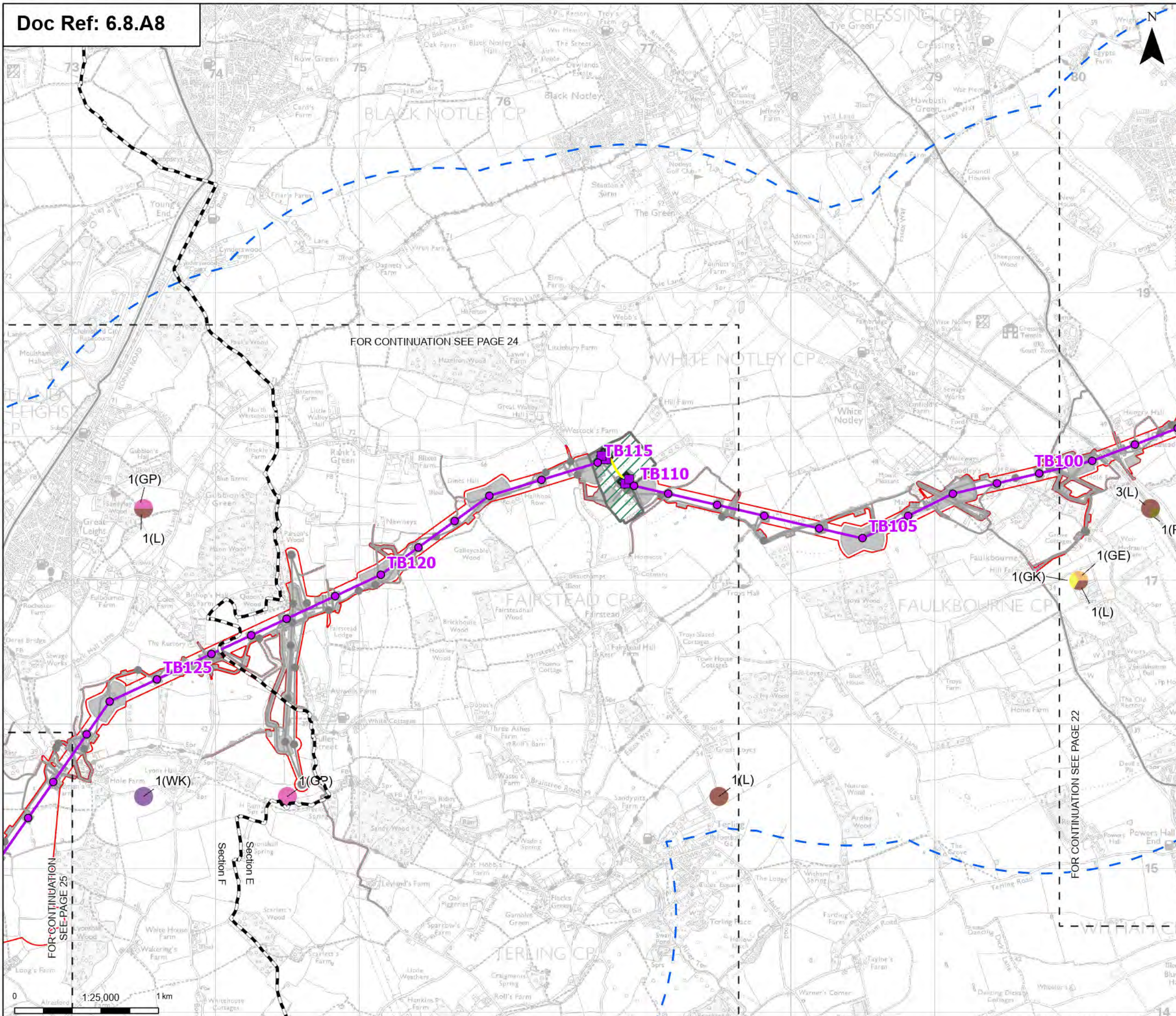
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Regulation 5(2)(a)

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**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
Page 21 of 31**

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	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-00319
Revision: A



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**

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

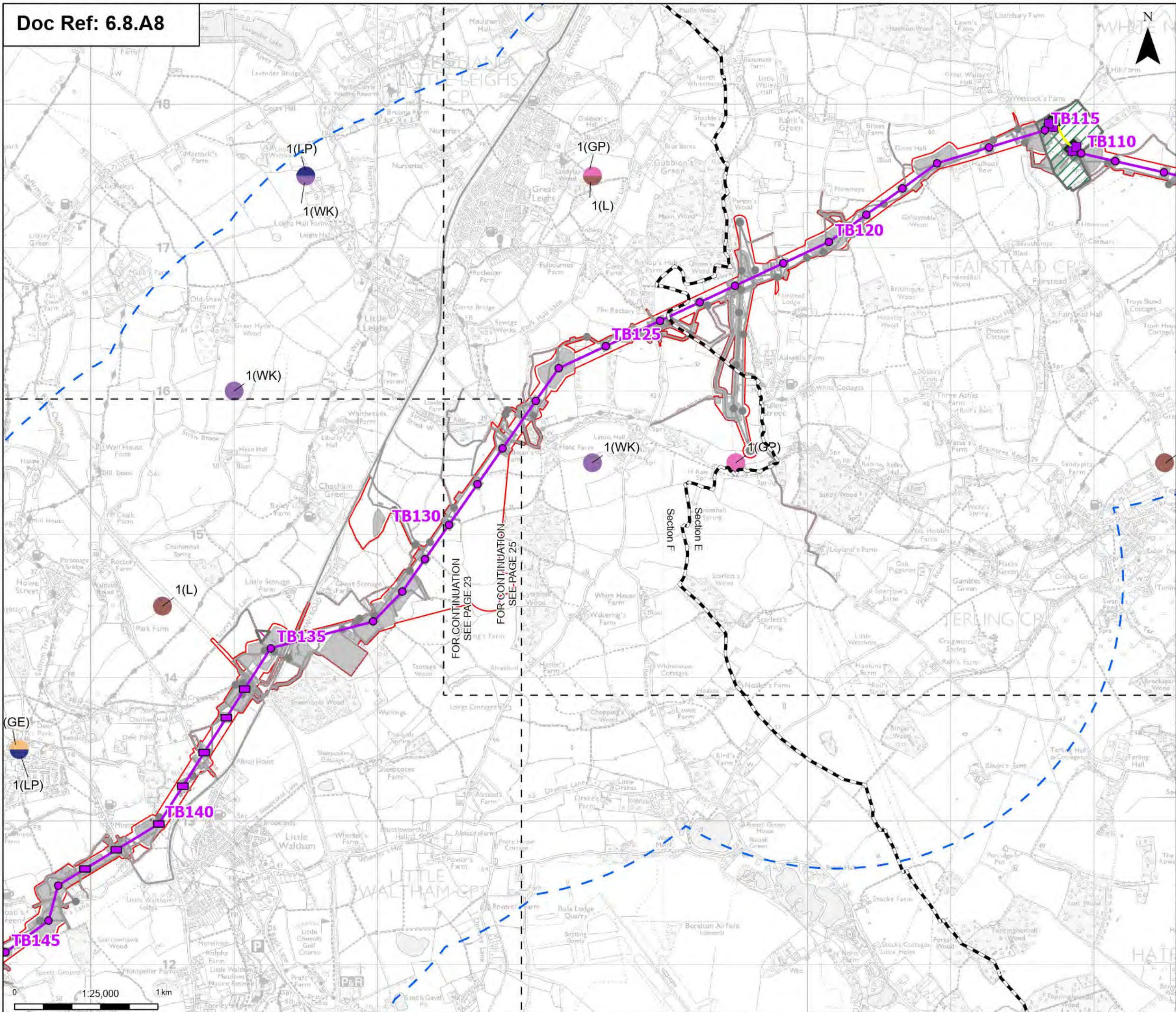
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**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
Page 23 of 31**

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	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-00319

Revision:
A



Order limits

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Project section line

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

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

Lapwing (L)

Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

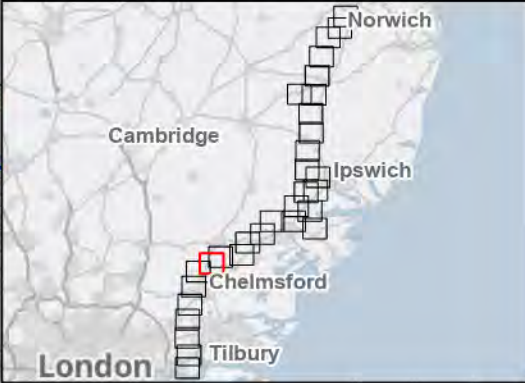
Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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

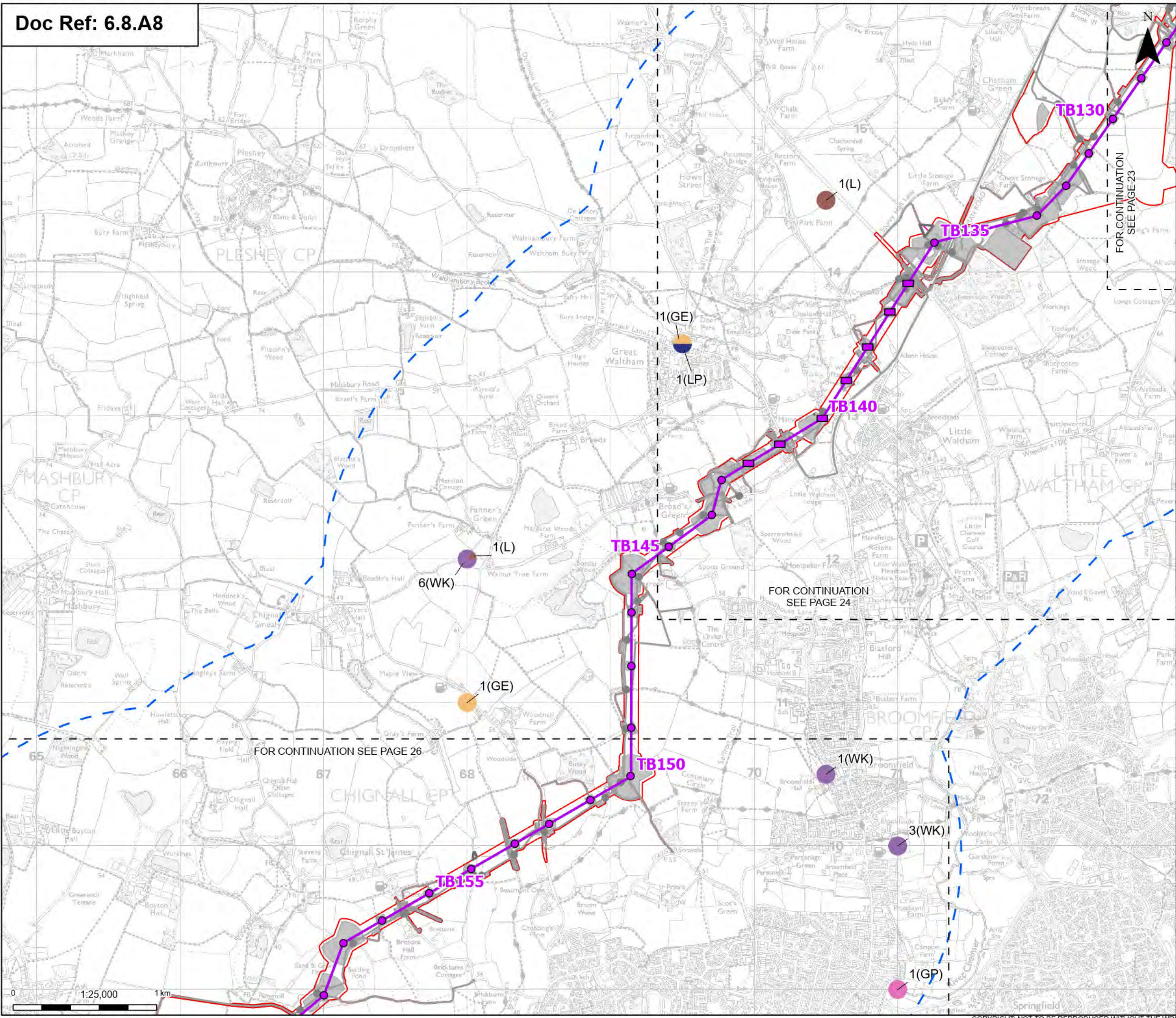
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Regulation 5(2)(a)

Title:
Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
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Designed	R. Anderton	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-00319	Revision: A
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Order limits
Sheet index outline

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

Collision risk target species - Waders total abundance (desk study data 2013-2022)

- Avocet (AV)
- Bar-tailed godwit (BA)
- Black-tailed godwit (BW)
- Curlew (CU)
- Dunlin (DN)
- Golden plover (GP)
- Green sandpiper (GE)
- Greenshank (GK)
- Lapwing (L)
- Little ringed plover (LP)
- Ringed plover (RP)
- Ruff (RU)
- Whimbrel (WM)
- Wood sandpiper (OD)
- Woodcock (WK)

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 2025	FOR DCO APPLICATION	SS	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

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

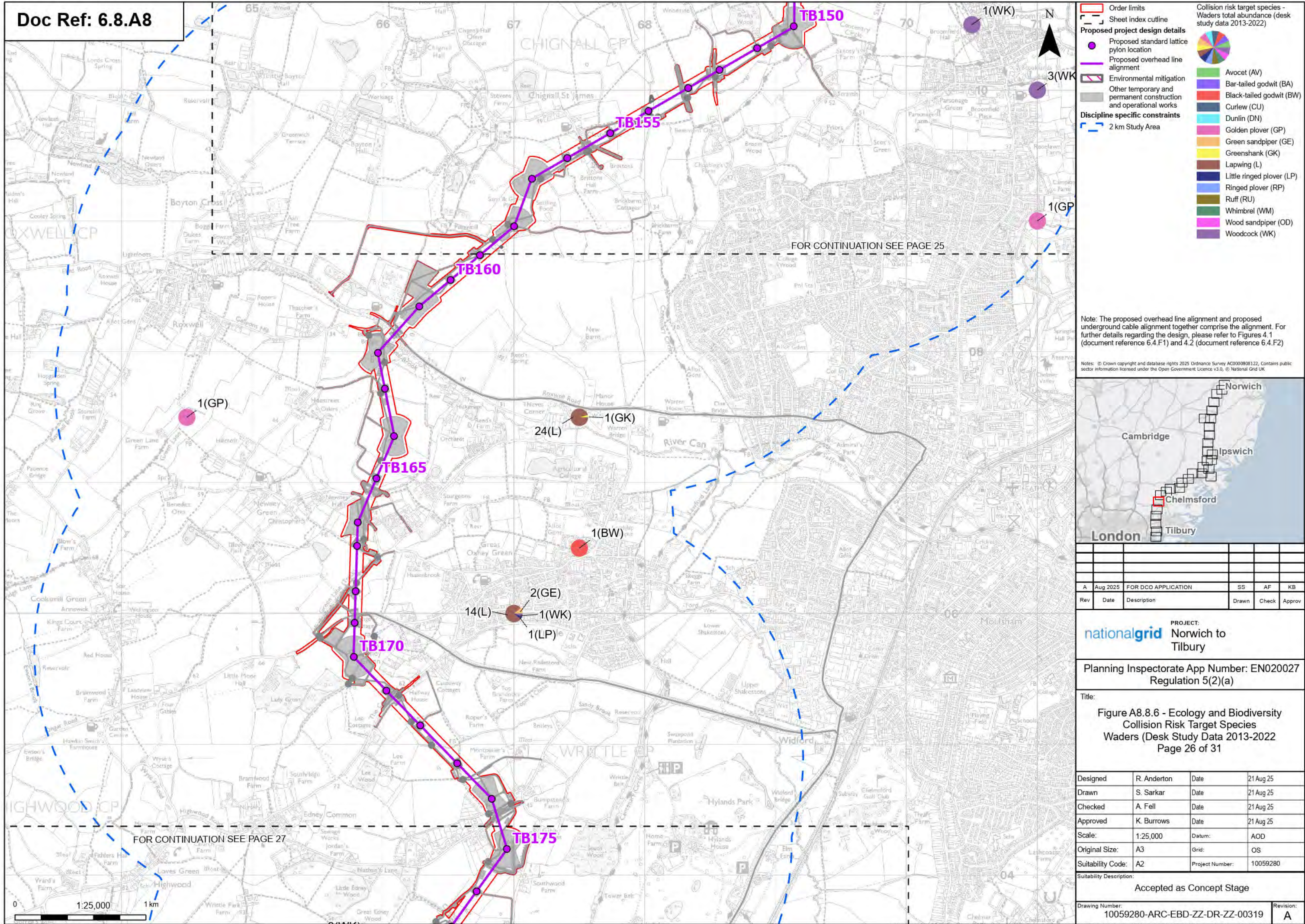
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Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
Page 25 of 31

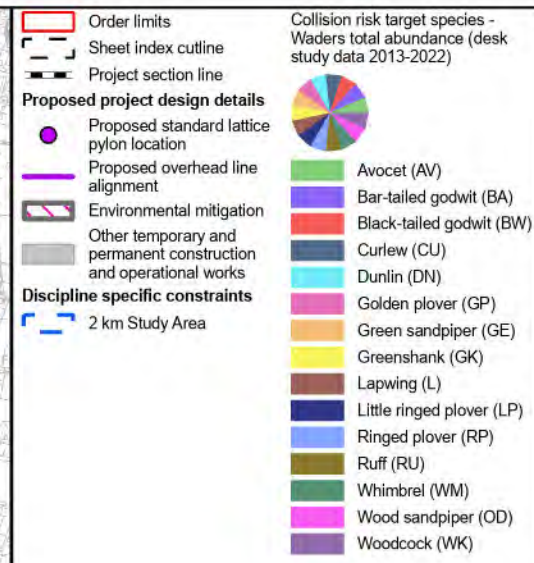
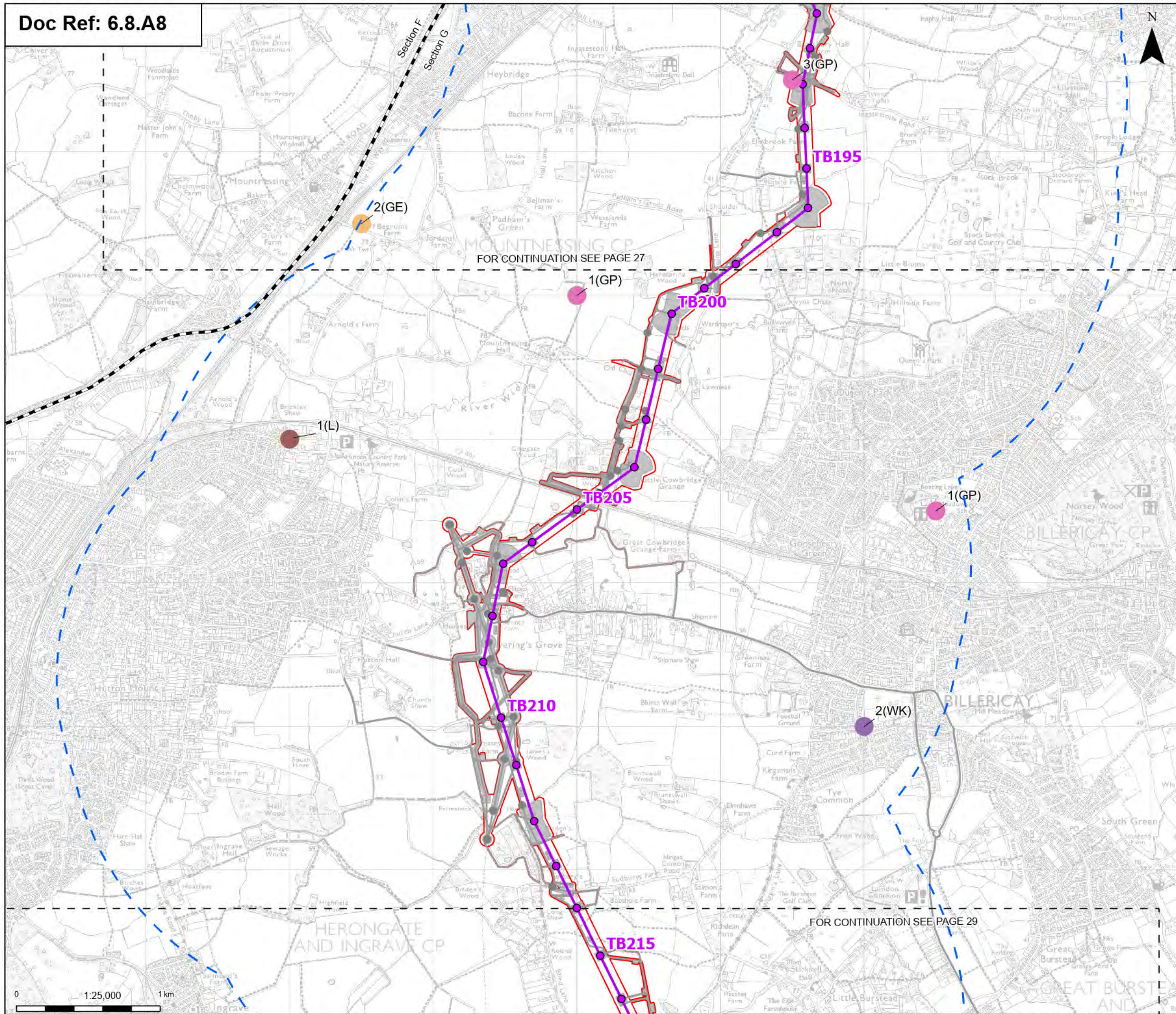
Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00319

Revision:
A





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**

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

Title:
**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
Page 28 of 31**

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	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

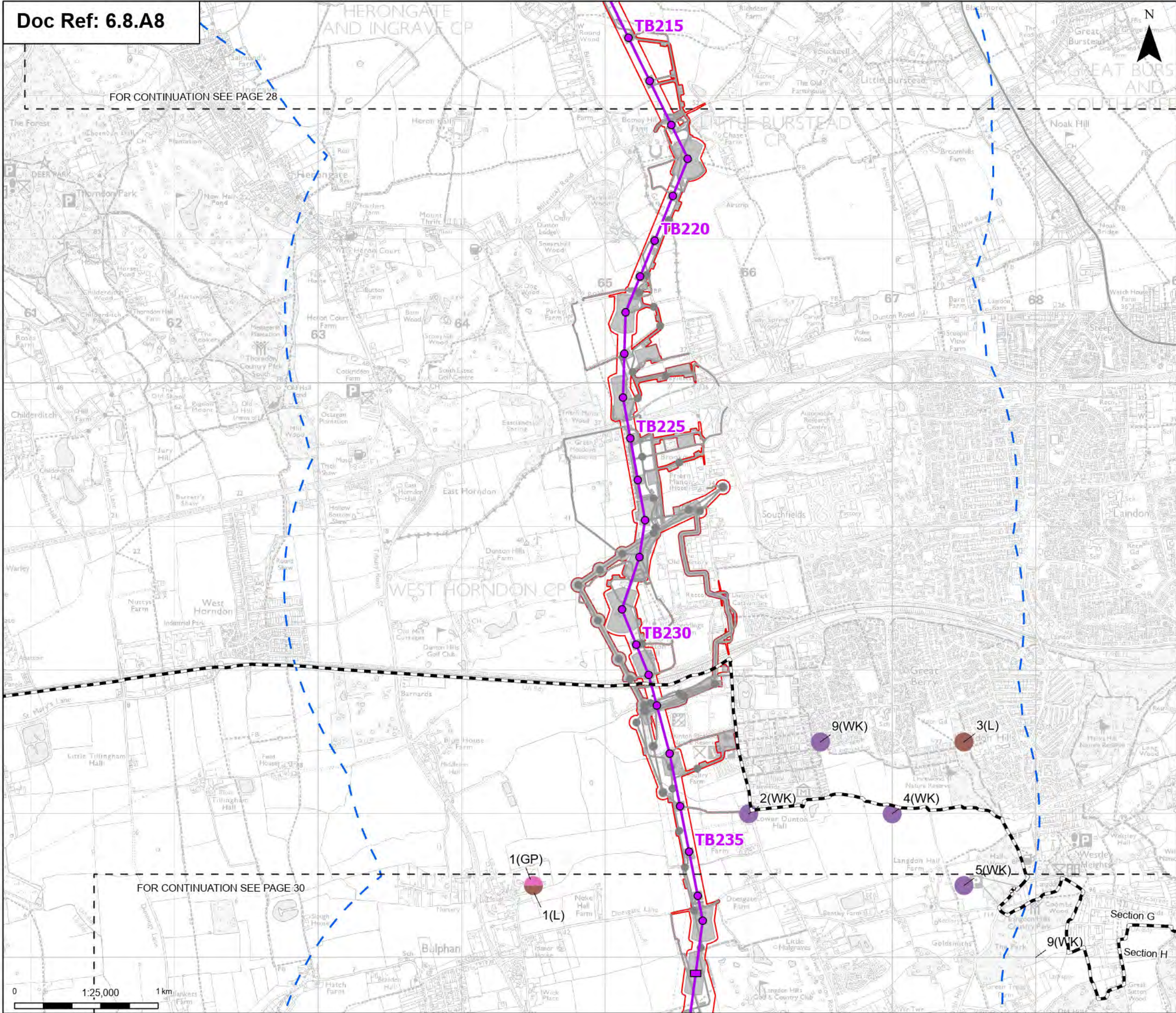
Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00319

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FOR CONTINUATION SEE PAGE 28

FOR CONTINUATION SEE PAGE 30



Order limits

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Project section line

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

Collision risk target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

Lapwing (L)

Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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**

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

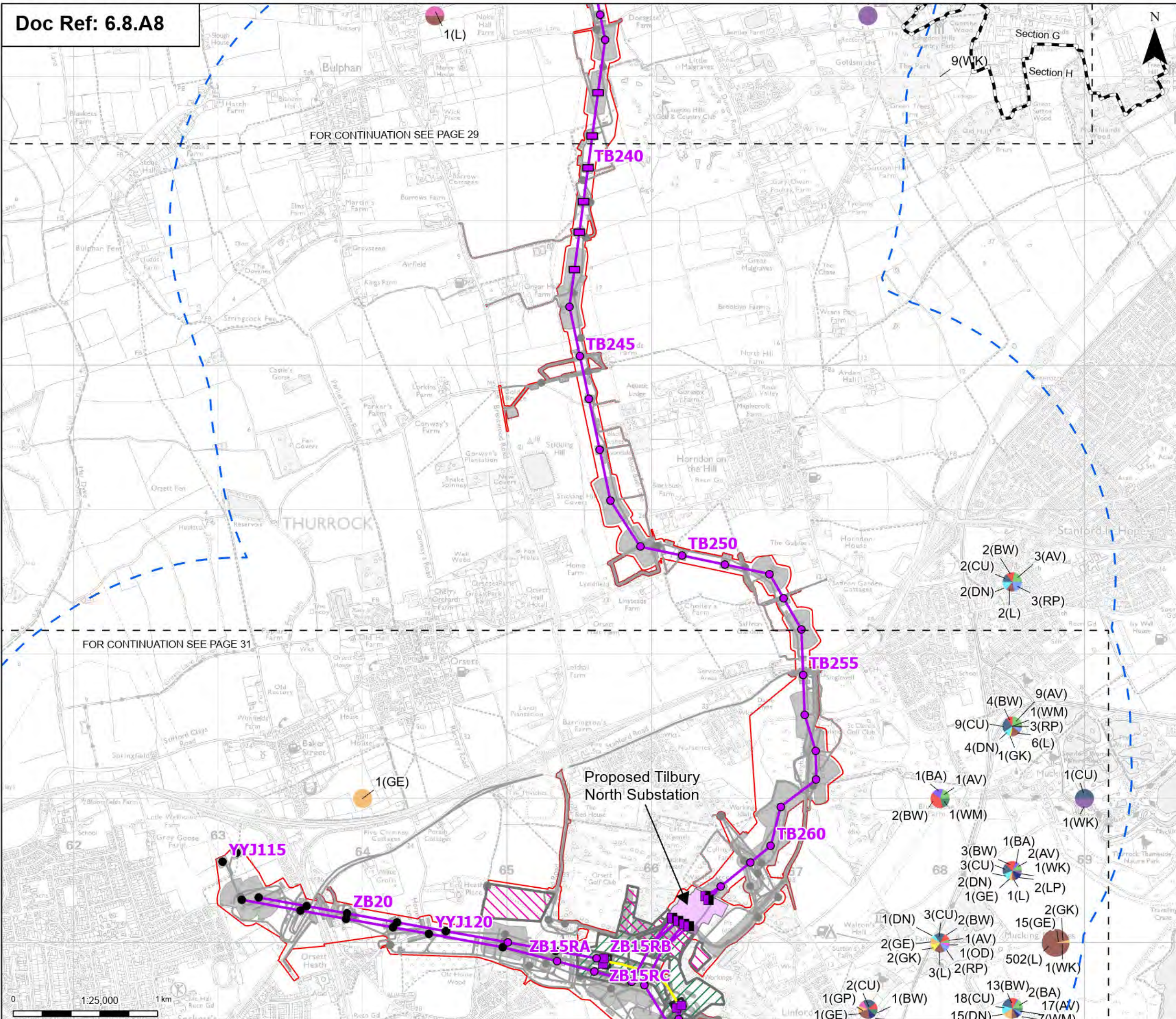
Title:
**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
Page 29 of 31**

Designed	R. Anderton	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-00319

Revision:
A



Order limits
Sheet index outline
Project section line

Proposed project design details

- Proposed full line tension gantry
- Proposed low duty gantry
- Proposed low height pylon location
- 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

Collision risk target species - Waders total abundance (desk study data 2013-2022)

- Avocet (AV)
- Bar-tailed godwit (BA)
- Black-tailed godwit (BW)
- Curlew (CU)
- Dunlin (DN)
- Golden plover (GP)
- Green sandpiper (GE)
- Greenshank (GK)
- Lapwing (L)
- Little ringed plover (LP)
- Ringed plover (RP)
- Ruff (RU)
- Whimbrel (WM)
- Wood sandpiper (OD)
- Woodcock (WK)

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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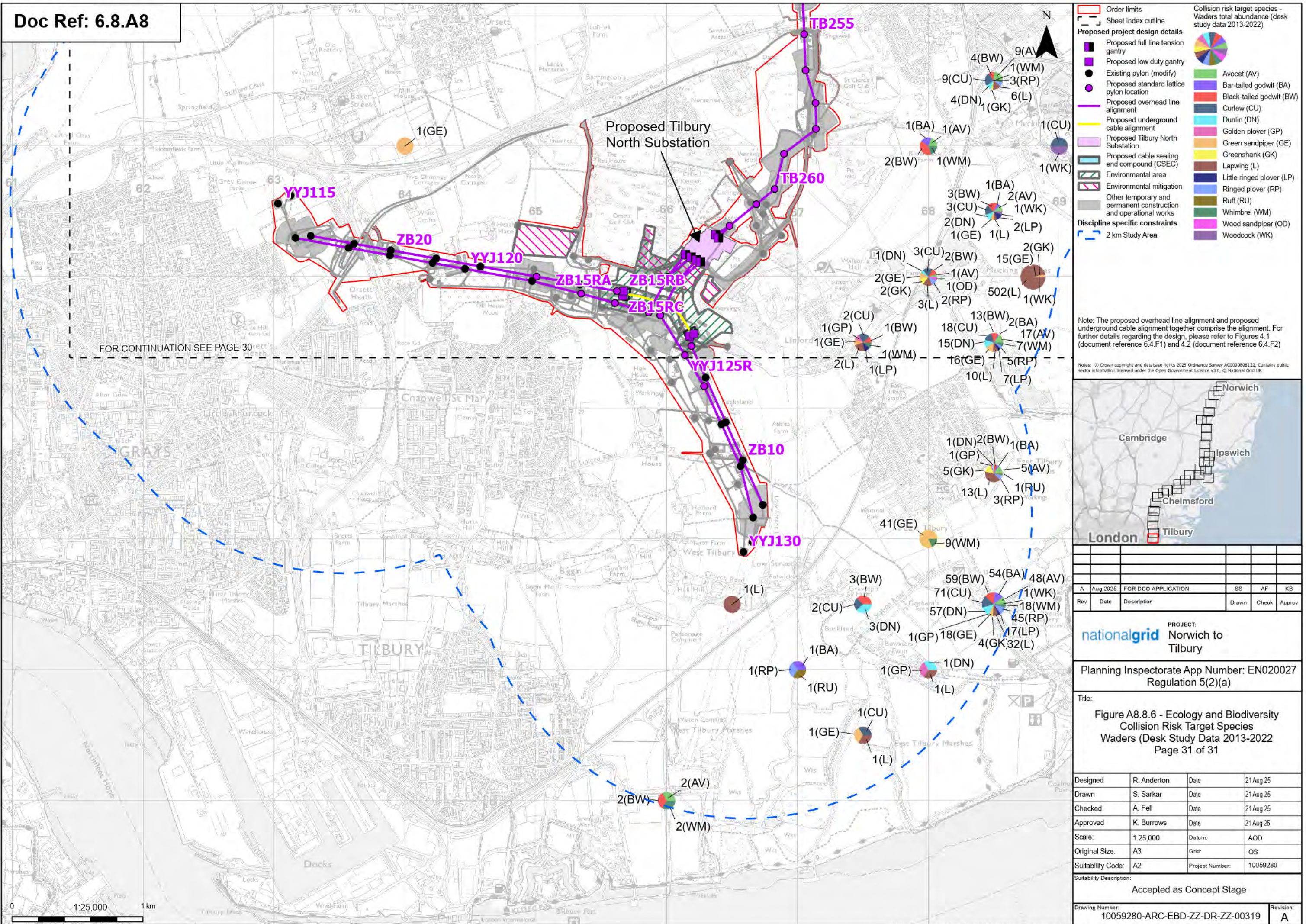
PROJECT:
nationalgrid Norwich to Tilbury

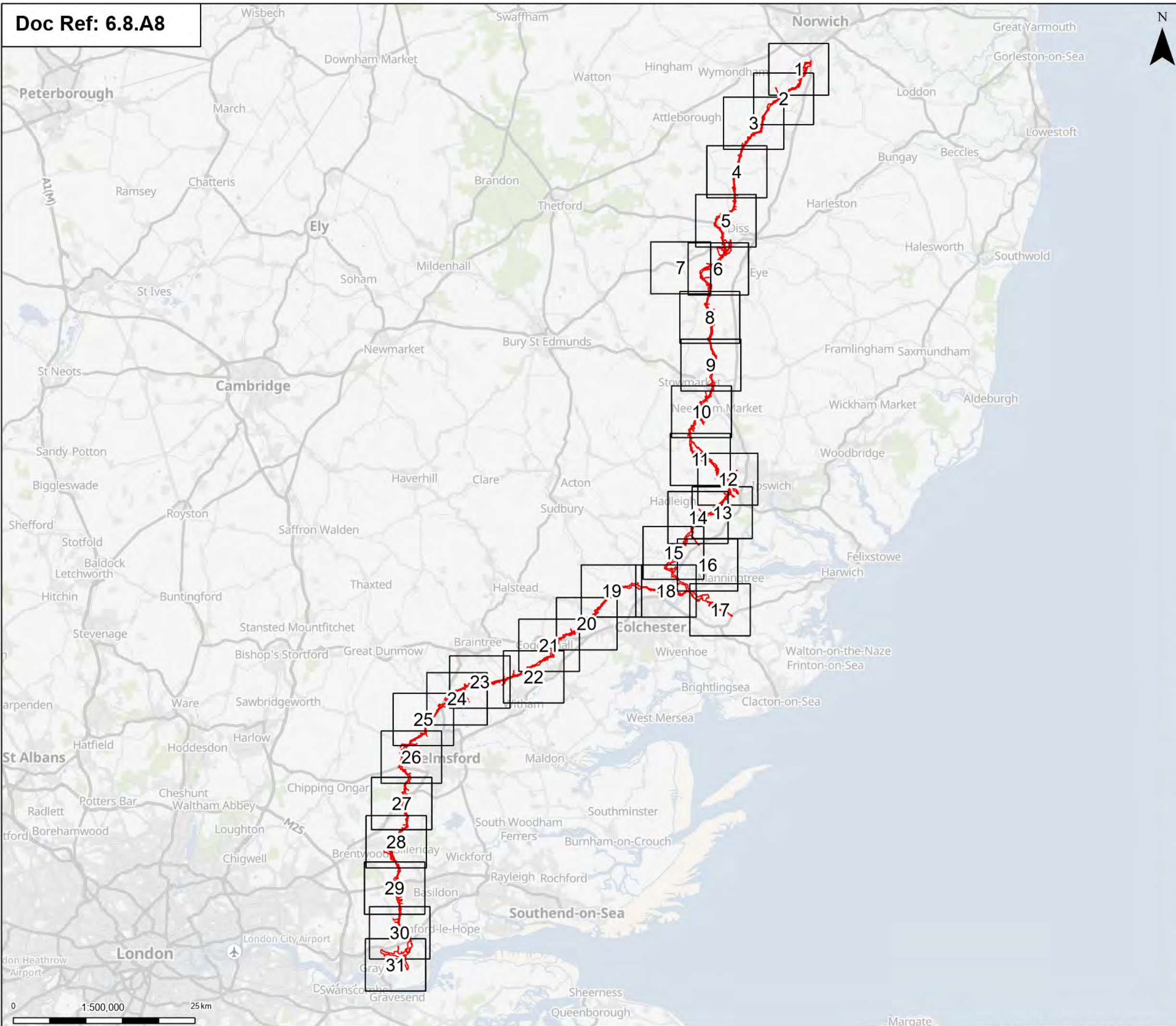
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
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Designed	R. Anderton	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

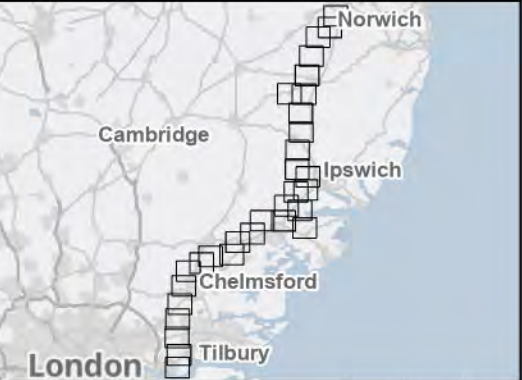
Suitability Description: Accepted as Concept Stage	
Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00319	Revision: A





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Rev	Date	Description	Drawn	Check	Approv

PROJECT:
nationalgrid Norwich to
Tilbury

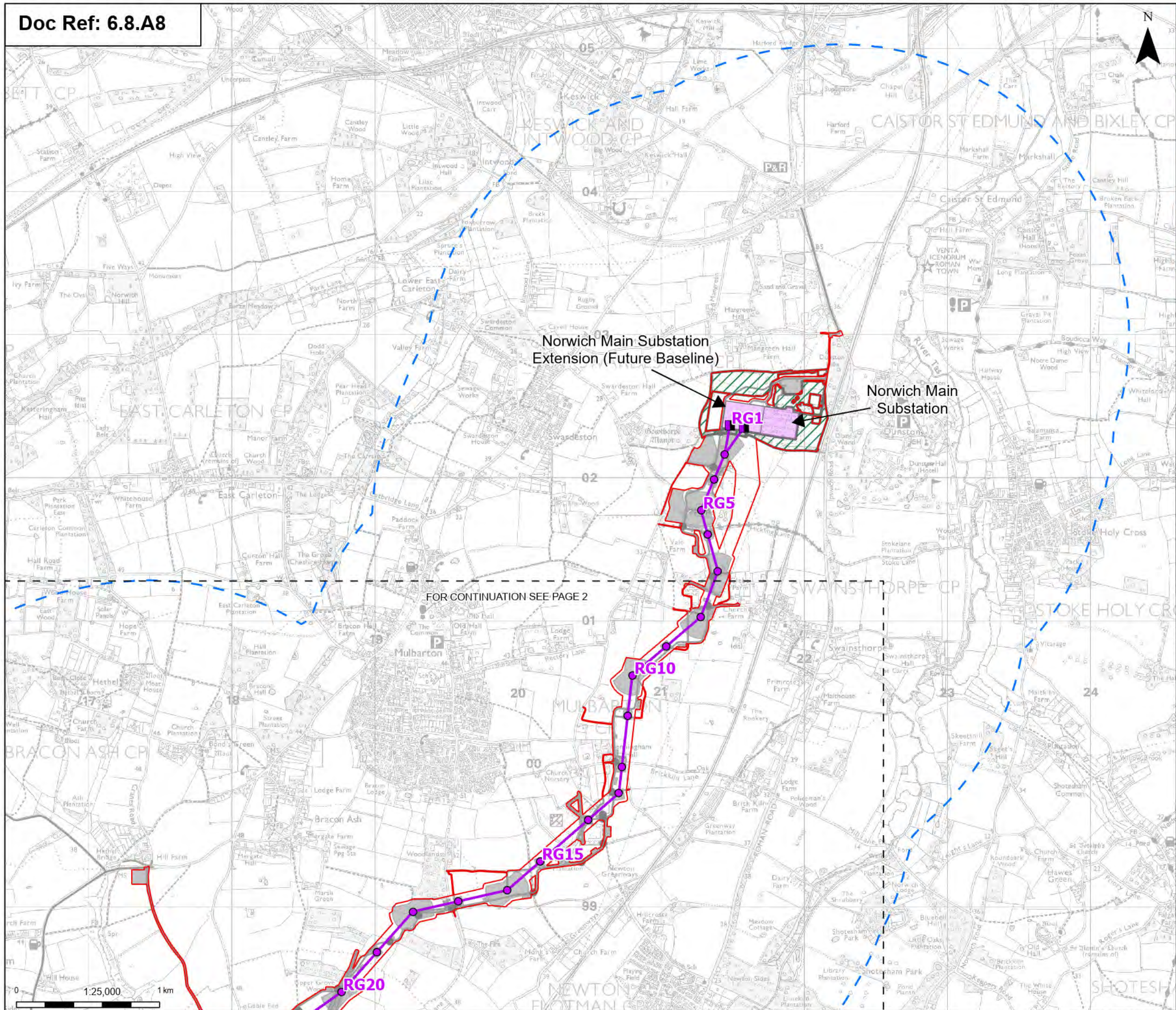
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
Overview

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:500,000	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-00320
Revision:
A



Order limits

Sheet index outline

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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

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 2025	FOR DCO APPLICATION	SS	AF	KB

PROJECT: **Norwich to Tilbury**

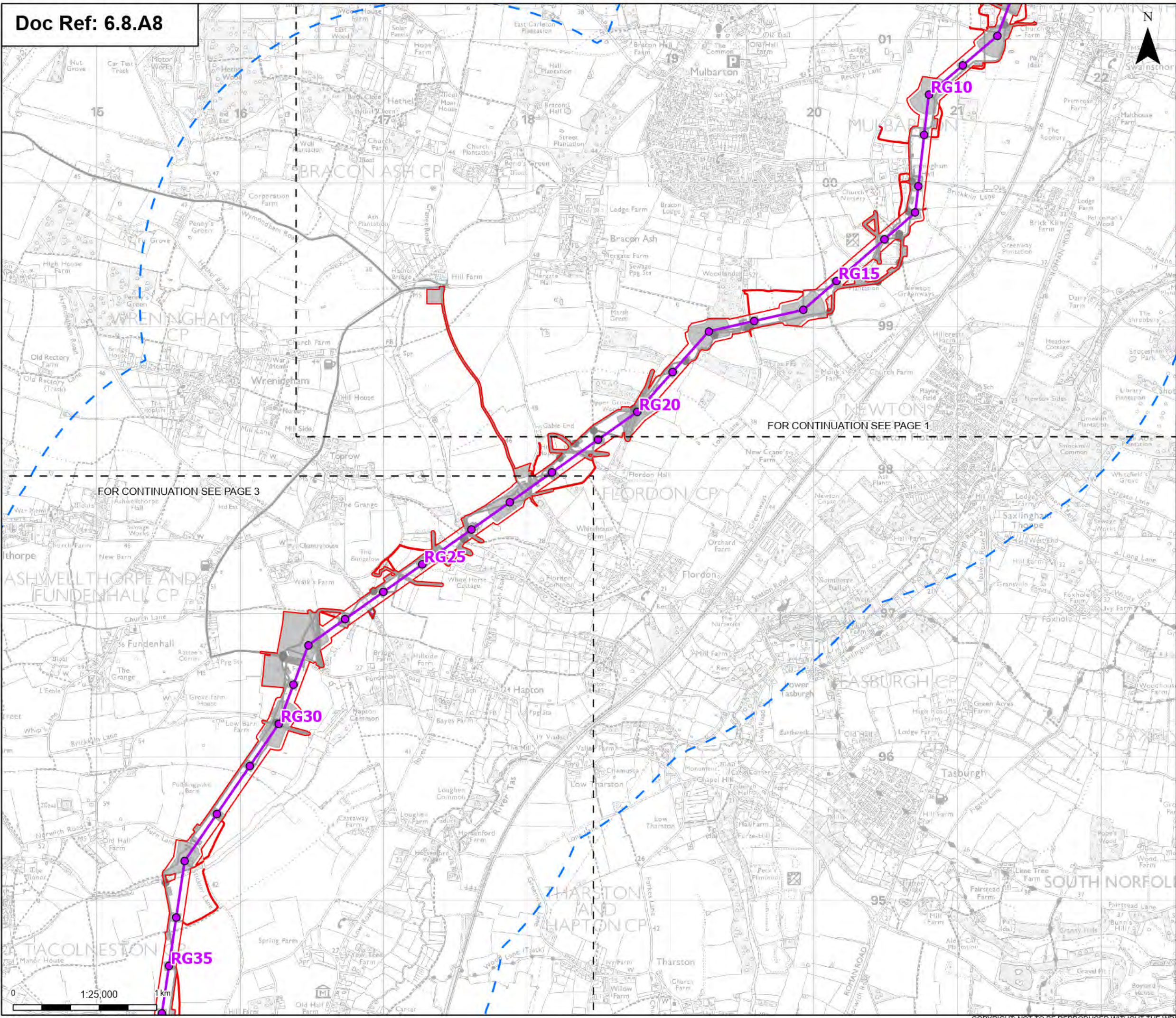
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
**Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
Page 1 of 31**

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
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Suitability Description:
Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00320
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Order limits

Sheet index outline

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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Legend:

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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
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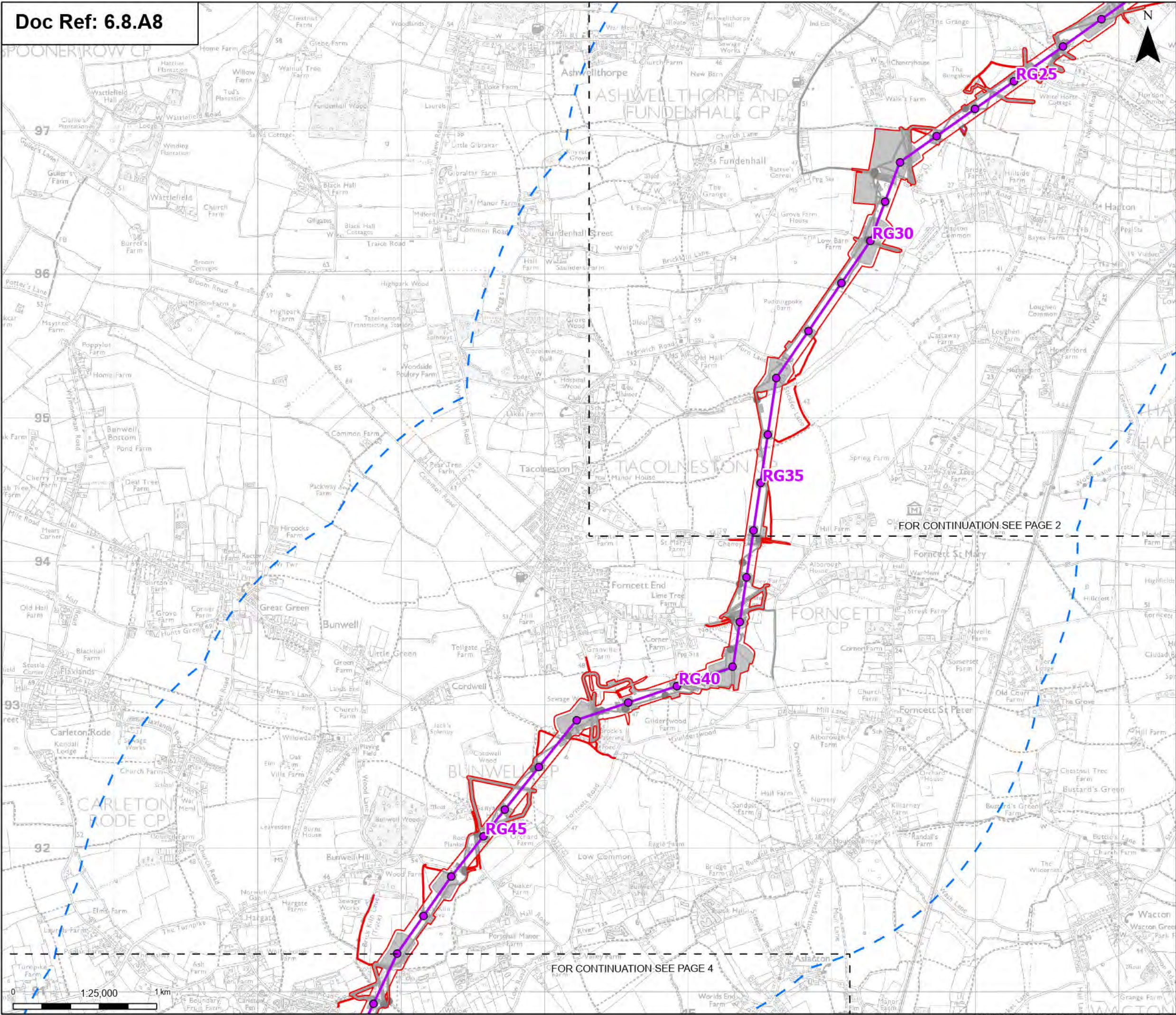
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Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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Approved	K. Burrows	Date	21 Aug 25
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number:
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Order limits

Sheet index outline

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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Legend:

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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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Planning Inspectorate App Number: EN020027
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Title:
**Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Sheet index outline

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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Black-necked grebe (BN)

Black-throated diver (BV)

Great northern diver (ND)

Red-necked grebe (RX)

Red-throated diver (RH)

Slavonian grebe (SZ)

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:
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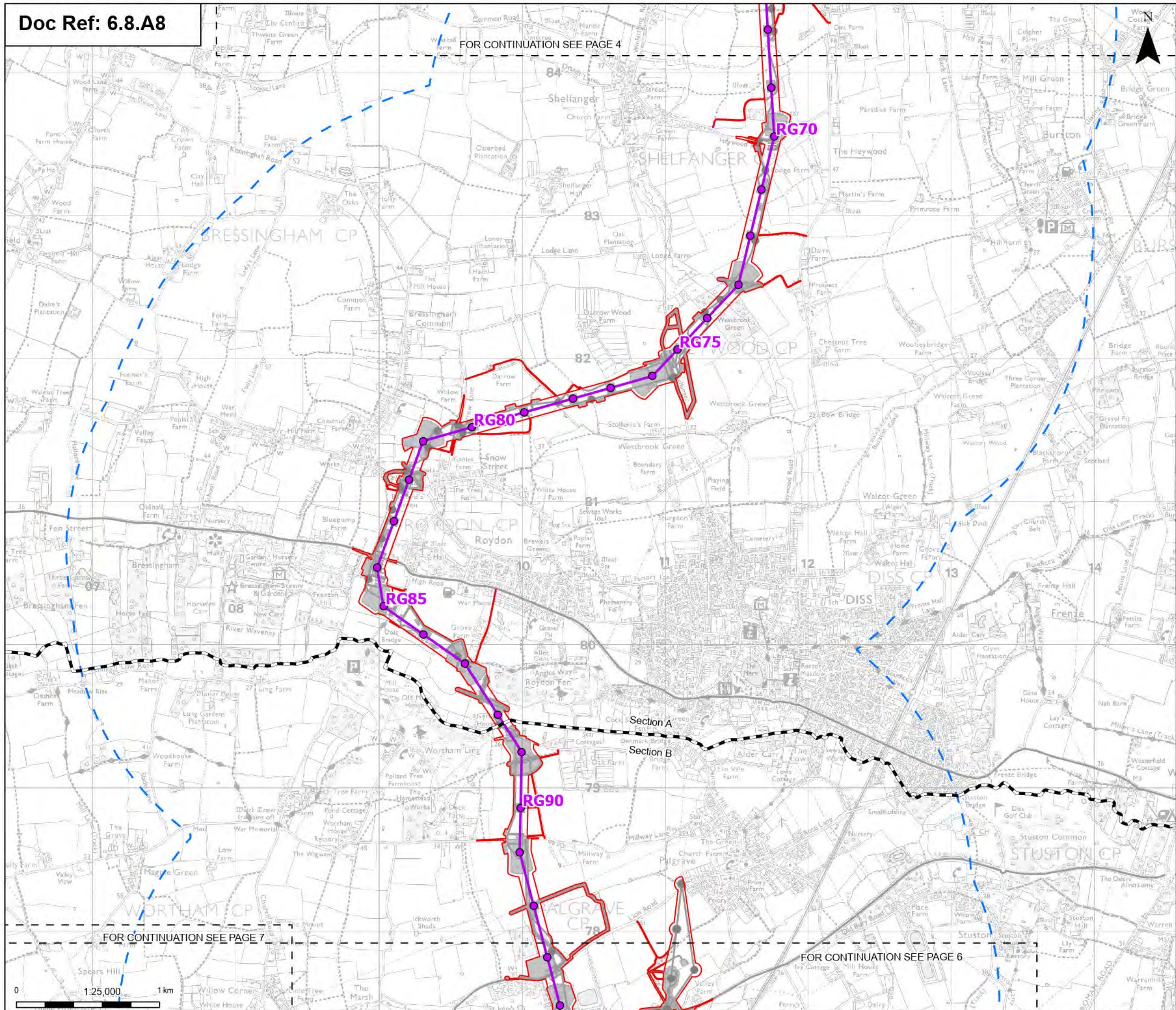
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Suitability Code:	A2	Project Number:	10059280

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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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

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:
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Planning Inspectorate App Number: EN020027
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Title:
**Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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Norwich to
Tilbury

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

Title:

Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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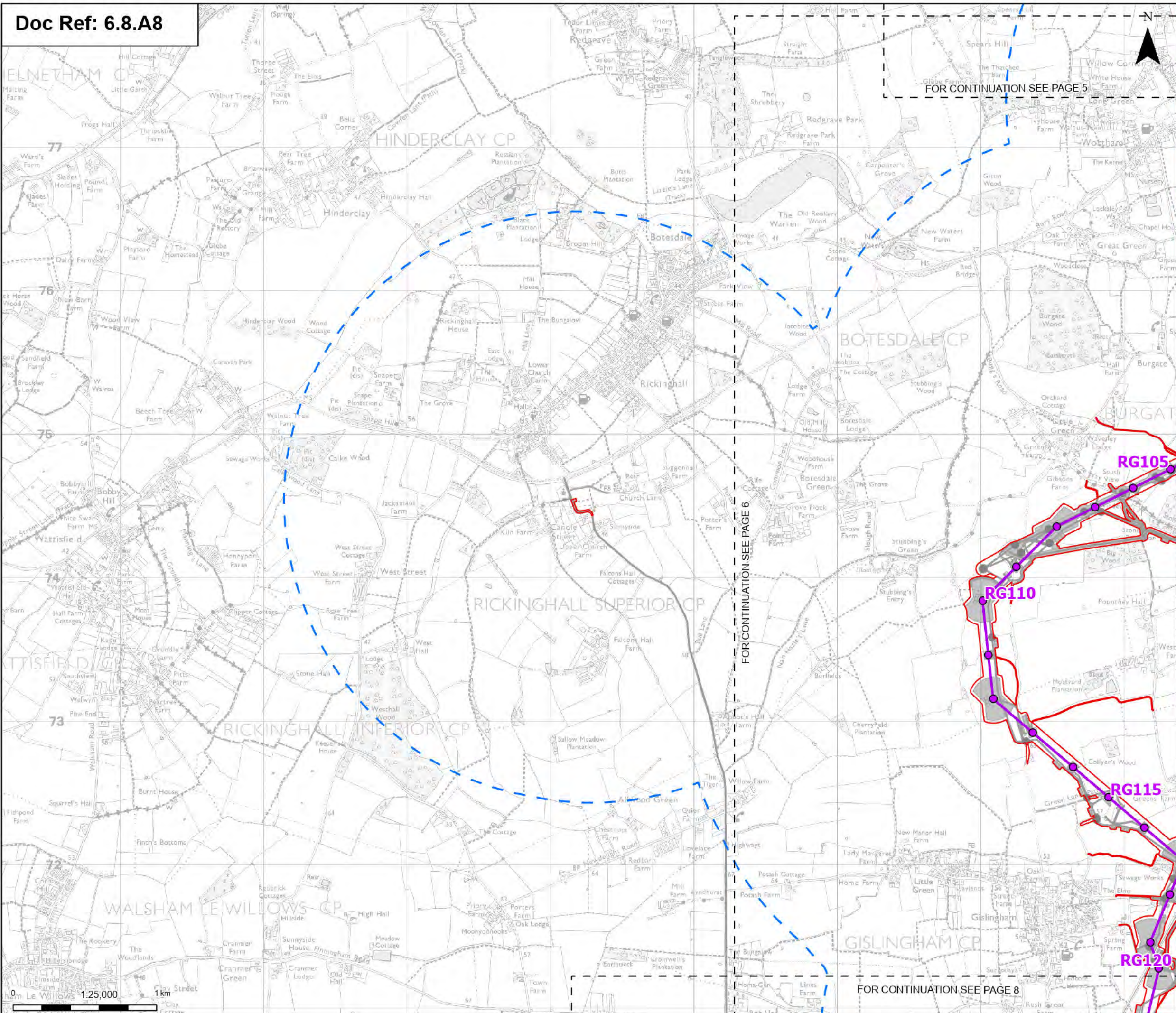
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Proposed project design details

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

Discipline specific constraints

- 2 km Study Area

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

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:
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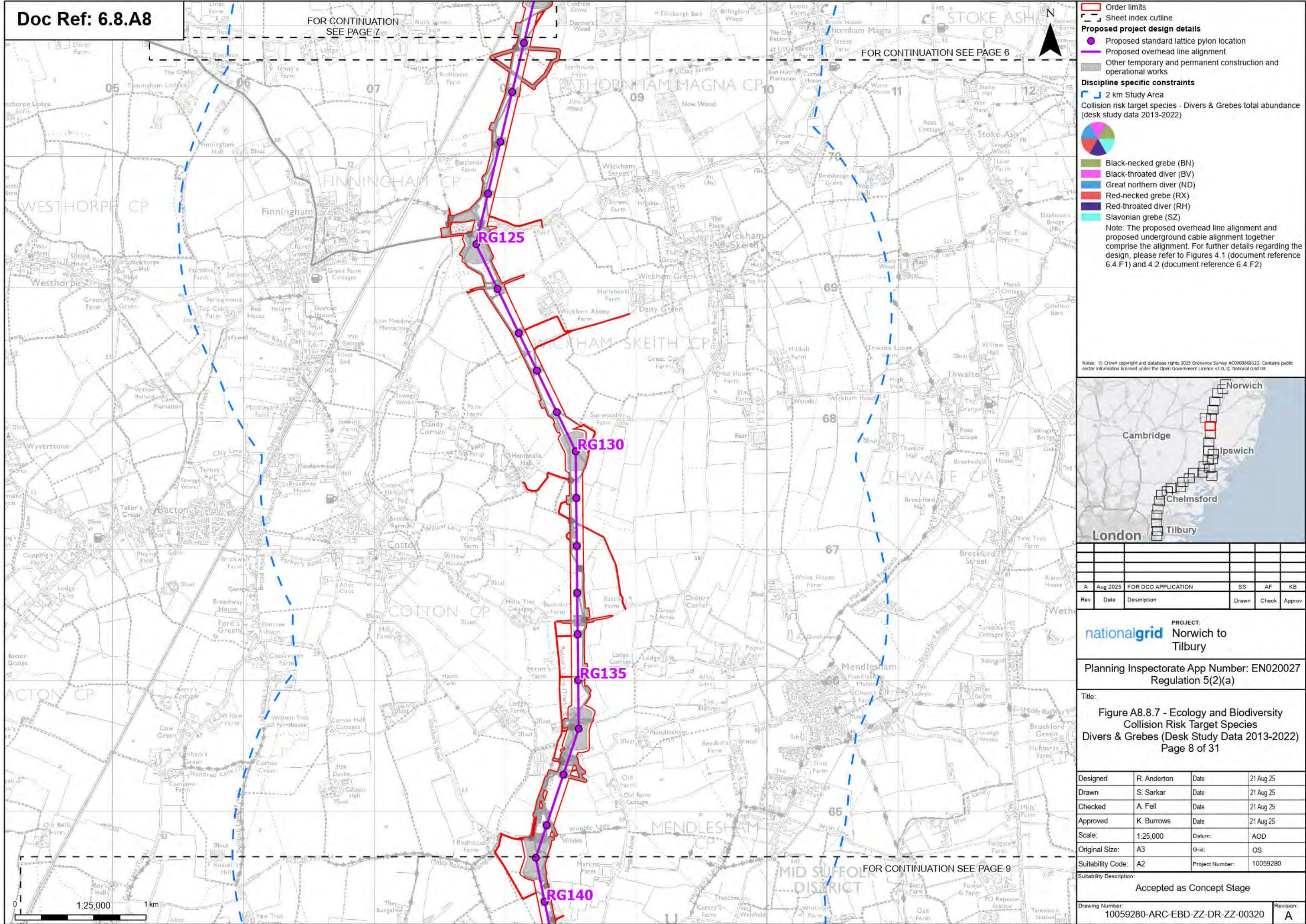
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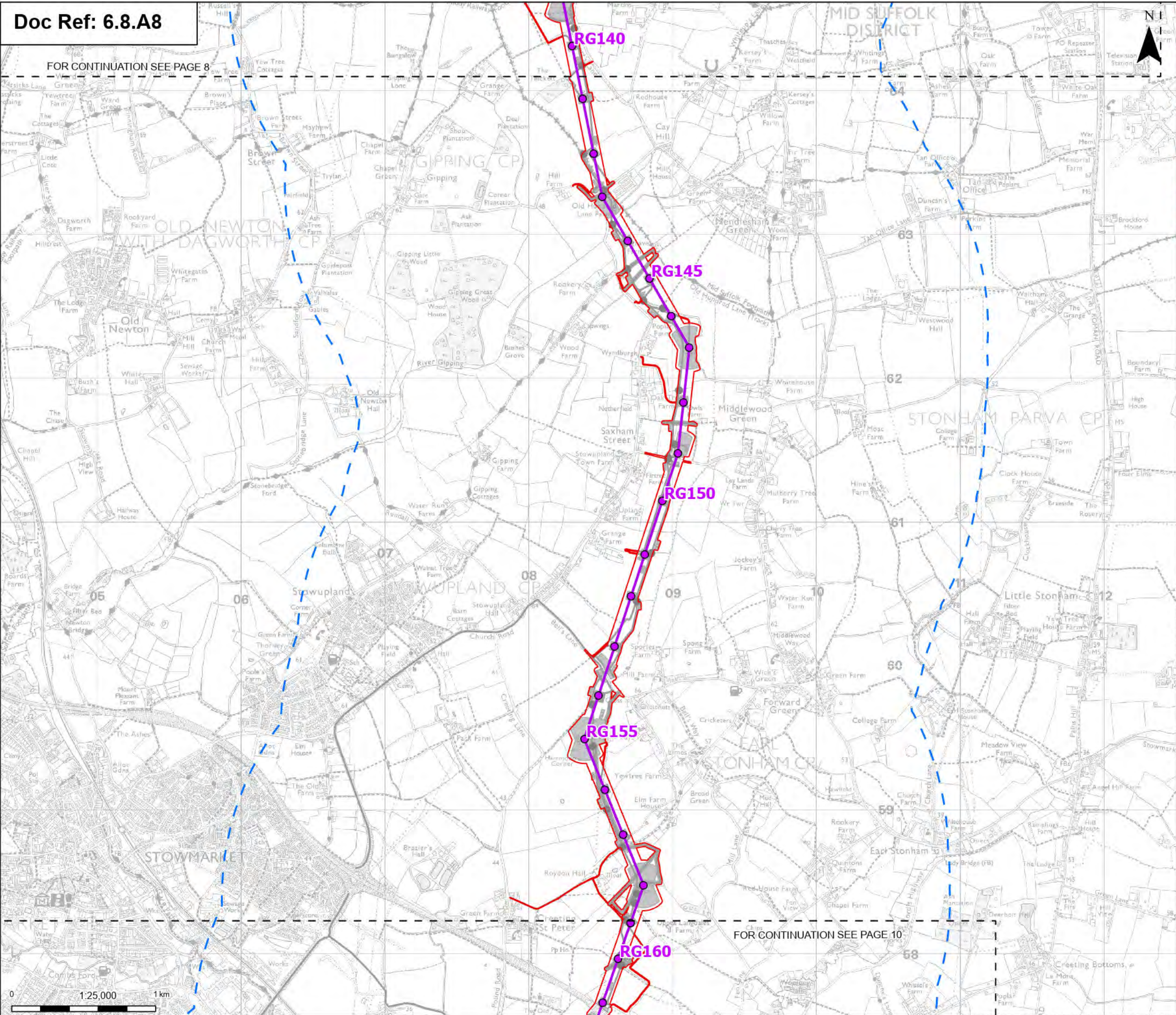
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Order limits

Sheet index outline

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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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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Tilbury

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Regulation 5(2)(a)

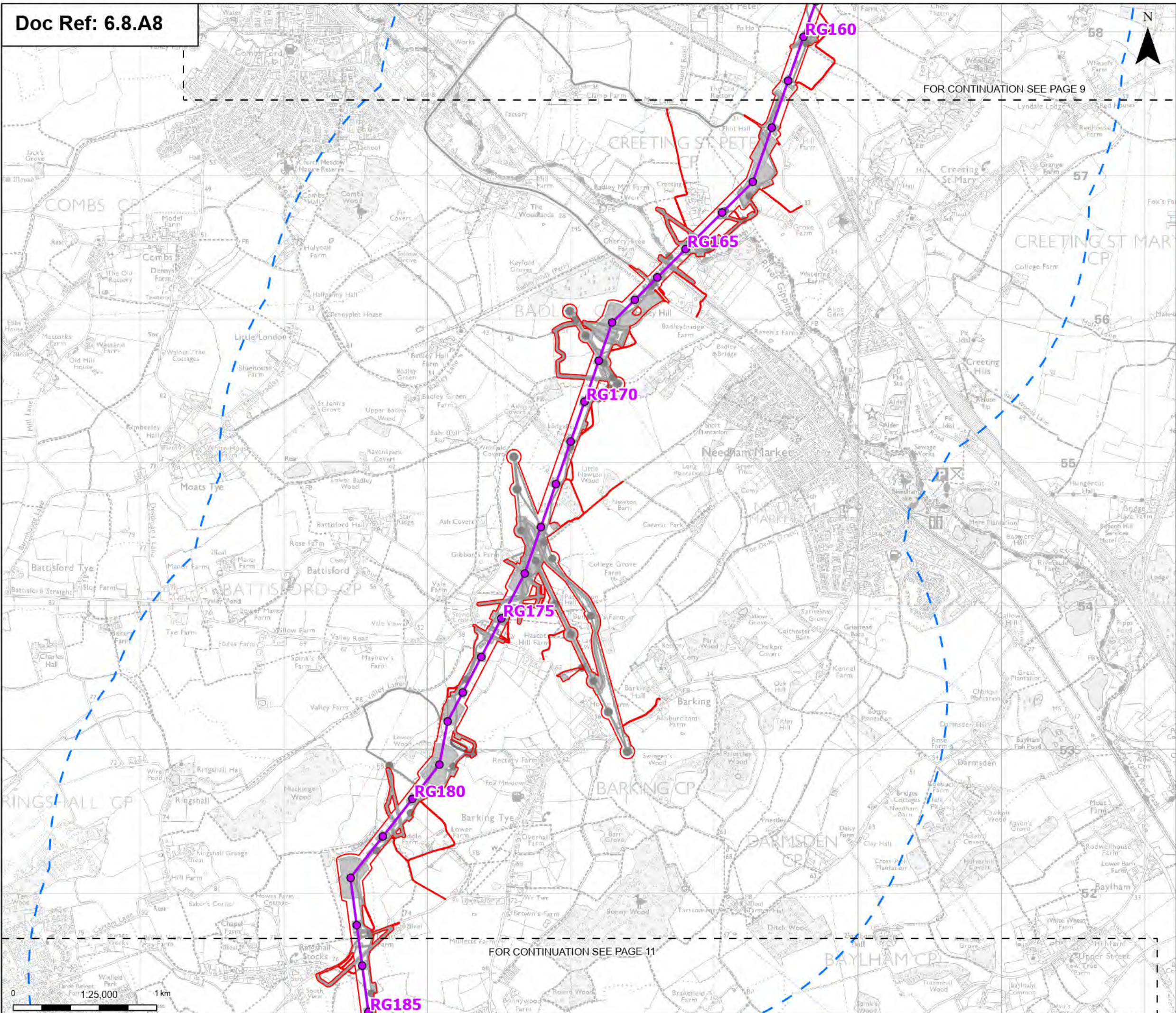
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Collision Risk Target Species
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Order limits

Sheet index outline

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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Black-necked grebe (BN)
Black-throated diver (BV)
Great northern diver (ND)
Red-necked grebe (RX)
Red-throated diver (RH)
Slavonian grebe (SZ)

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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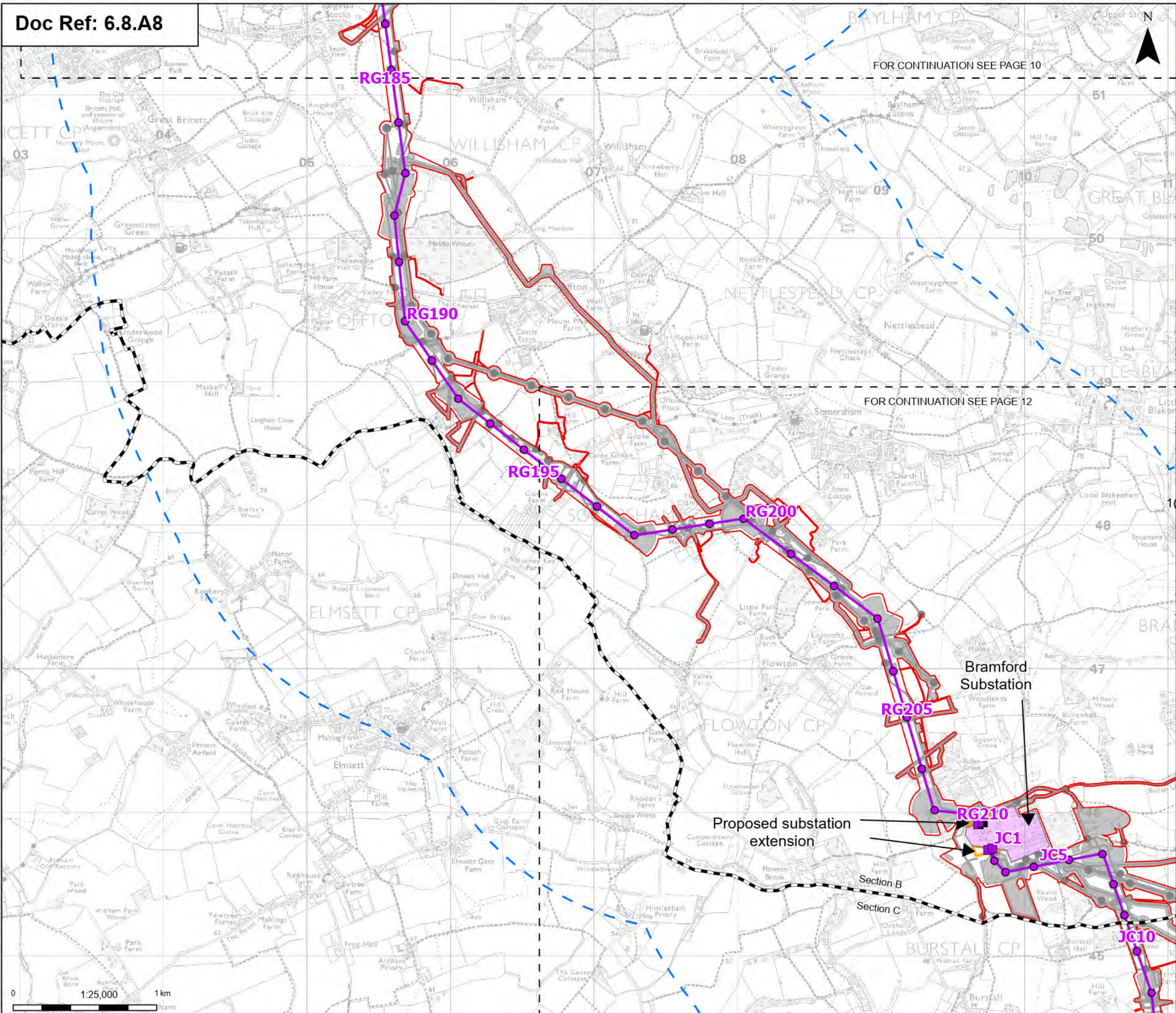
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Title:
**Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

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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
- Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Legend

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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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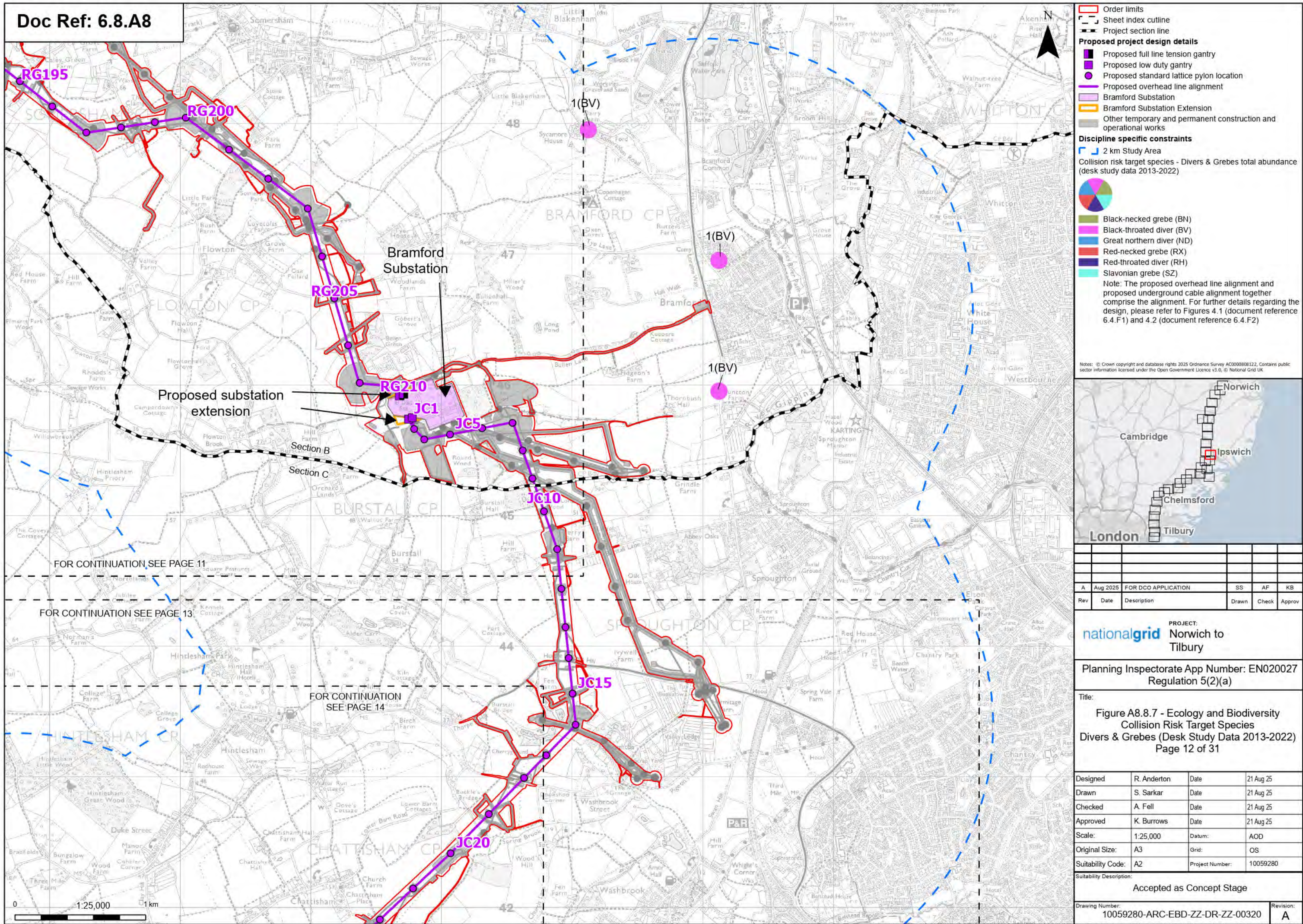
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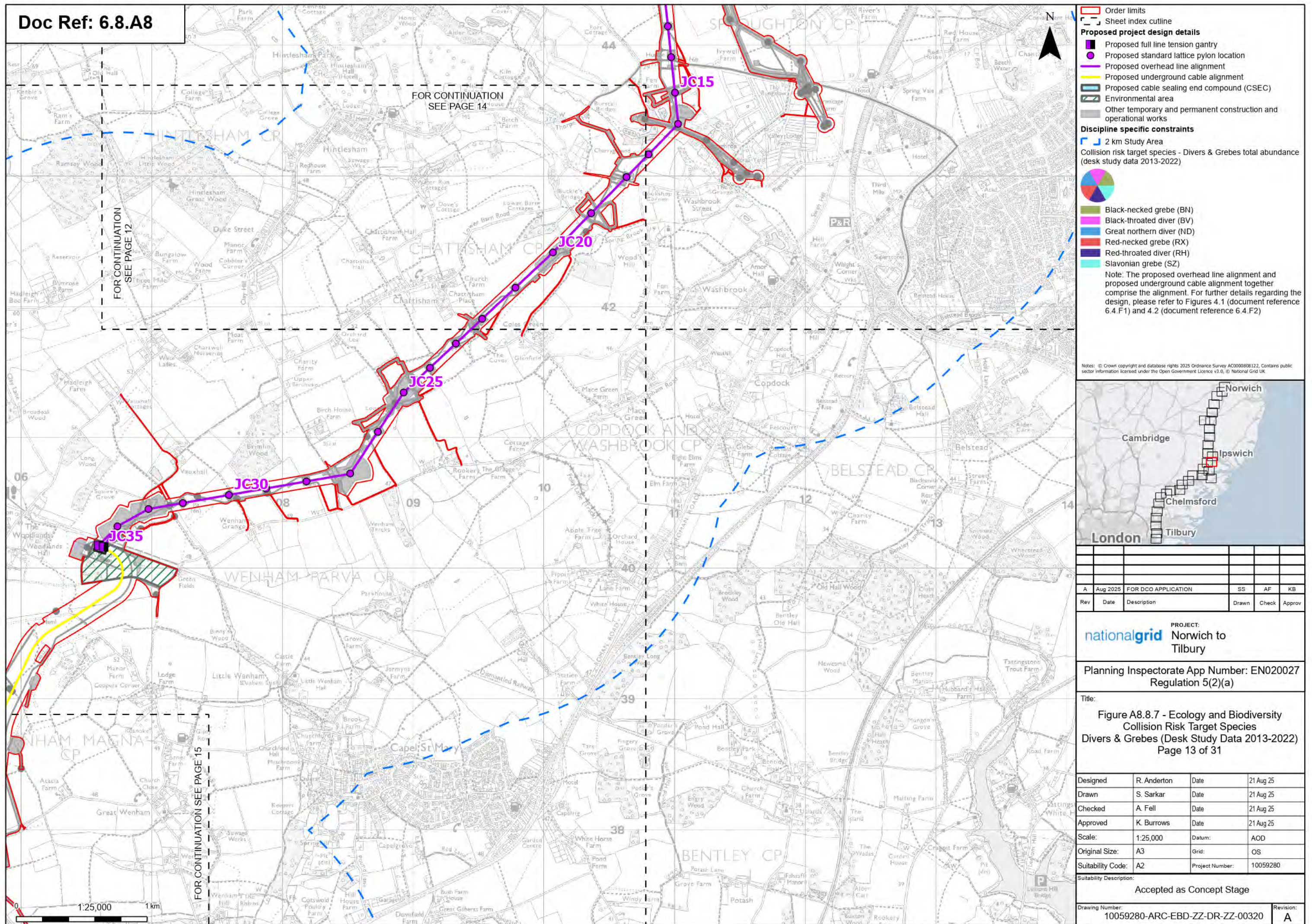
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Collision Risk Target Species
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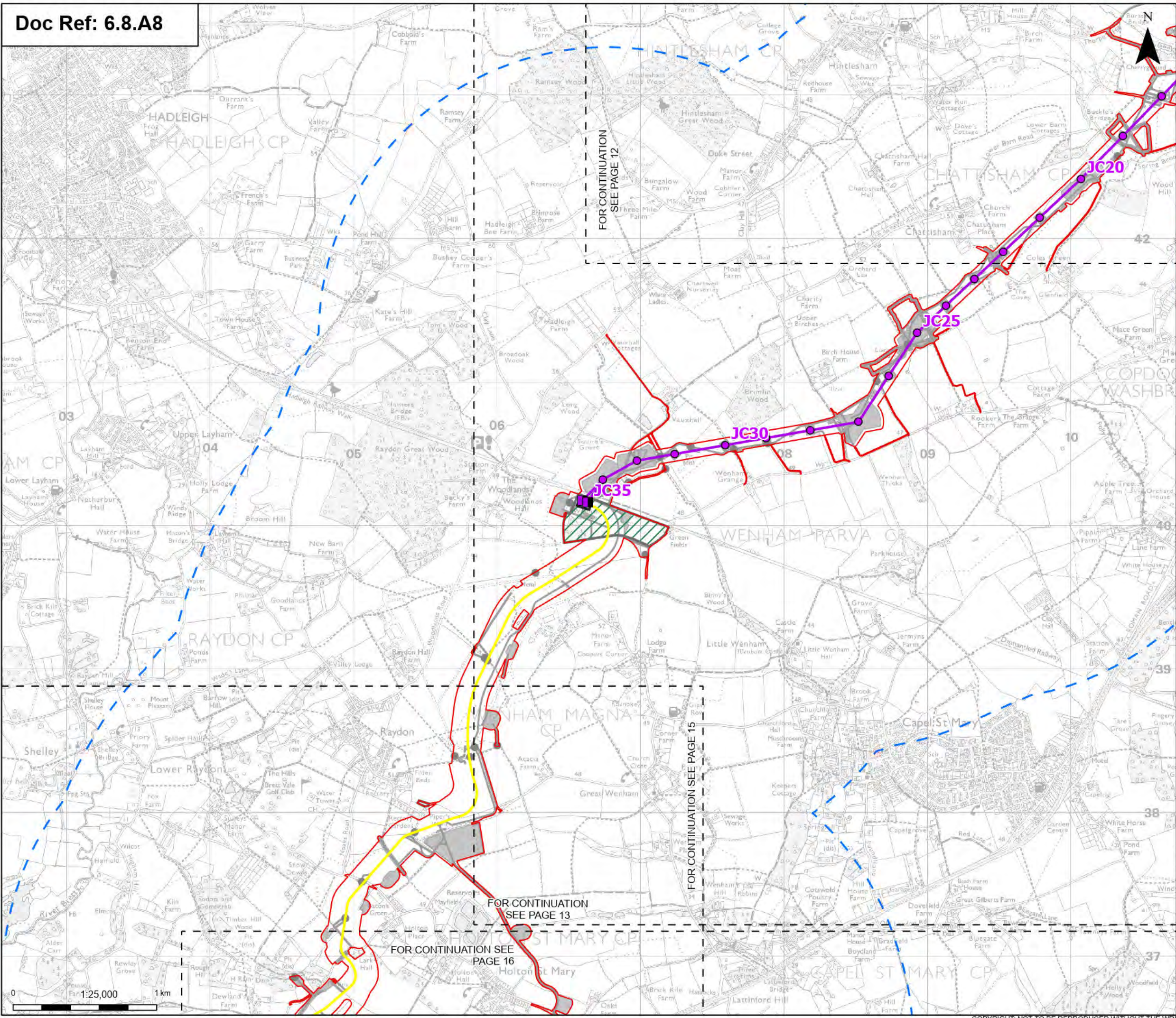
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Proposed project design details

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

Discipline specific constraints

2 km Study Area

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Black-necked grebe (BN)
Black-throated diver (BV)
Great northern diver (ND)
Red-necked grebe (RX)
Red-throated diver (RH)
Slavonian grebe (SZ)

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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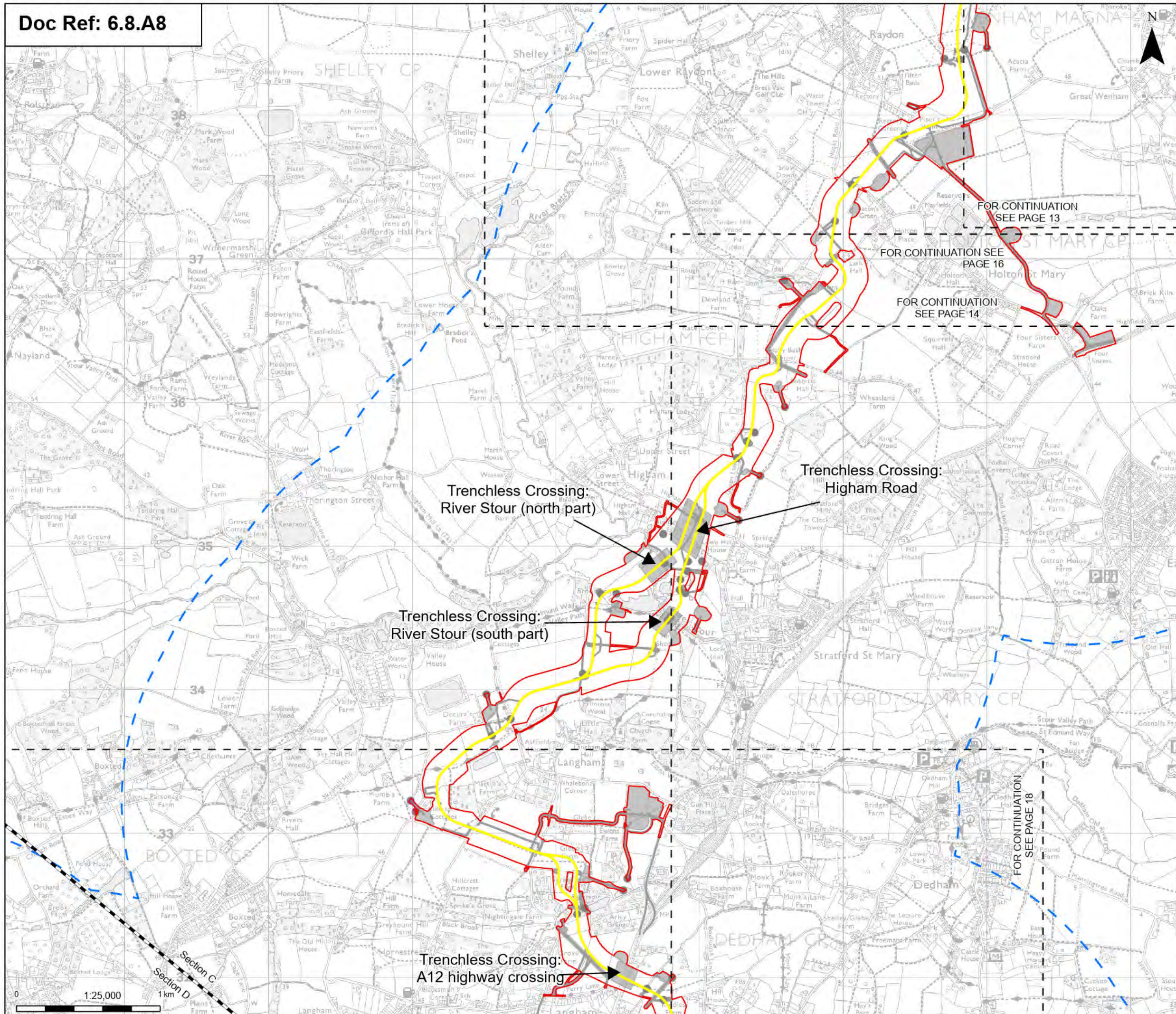
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Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Accepted as Concept Stage

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- Project section line

Proposed project design details

- Proposed underground cable alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Black-necked grebe (BN)
Black-throated diver (BV)
Great northern diver (ND)
Red-necked grebe (RX)
Red-throated diver (RH)
Slavonian grebe (SZ)

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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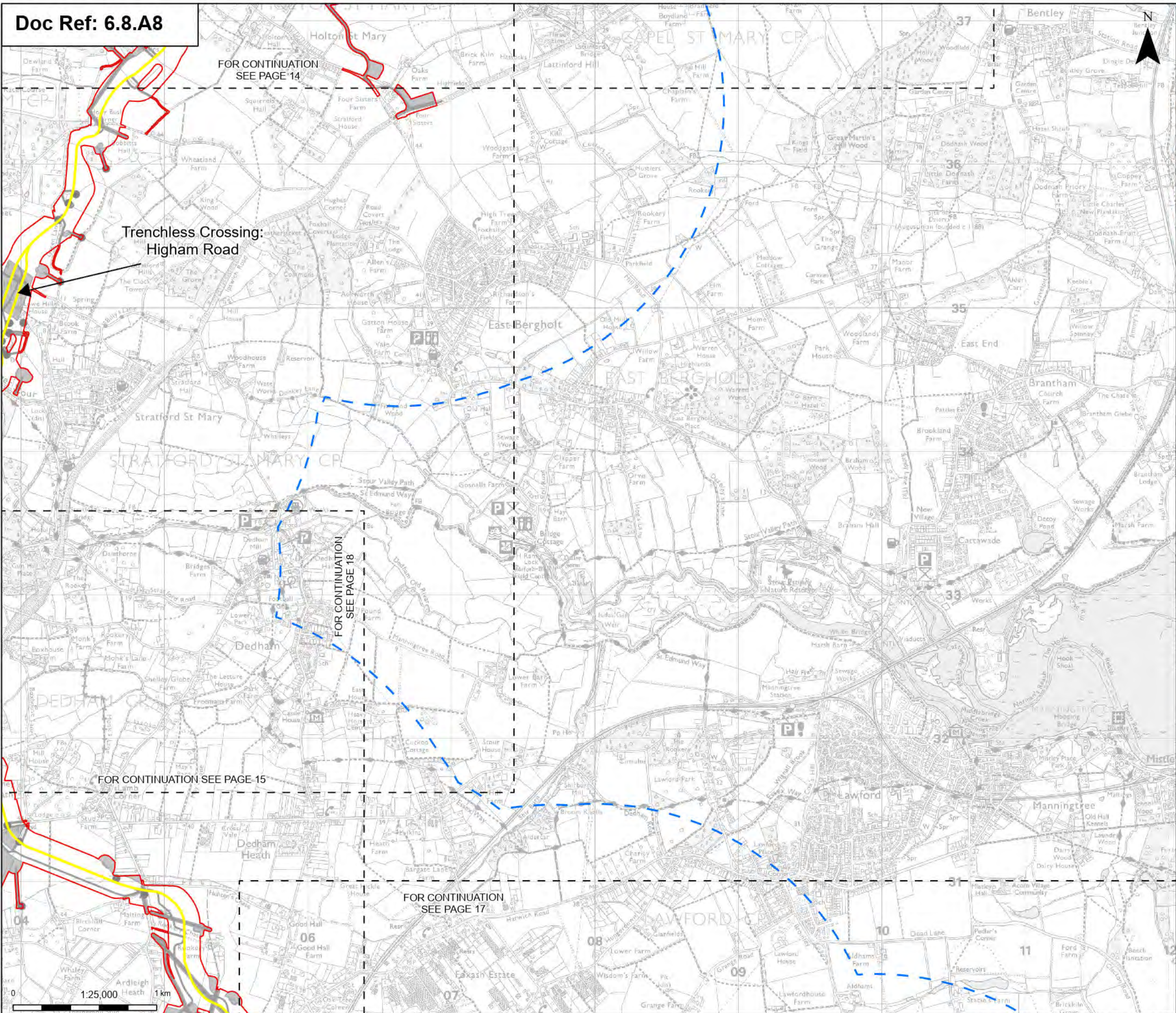
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Sheet index outline

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
- Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Legend

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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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nationalgrid

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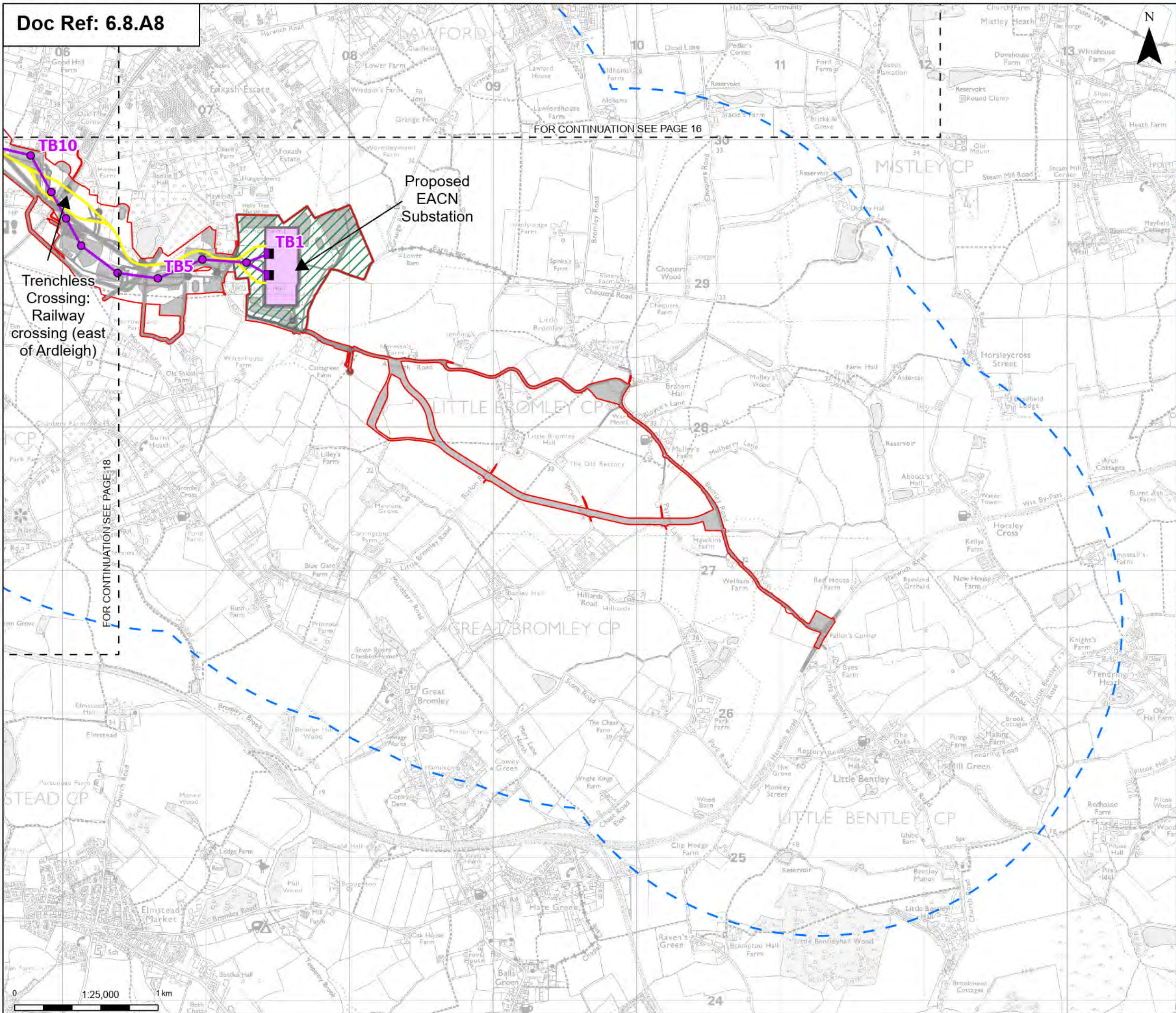
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Sheet index outline

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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Black-necked grebe (BN)
Black-throated diver (BV)
Great northern diver (ND)
Red-necked grebe (RX)
Red-throated diver (RH)
Slavonian grebe (SZ)

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**

Planning Inspectorate App Number: EN020027
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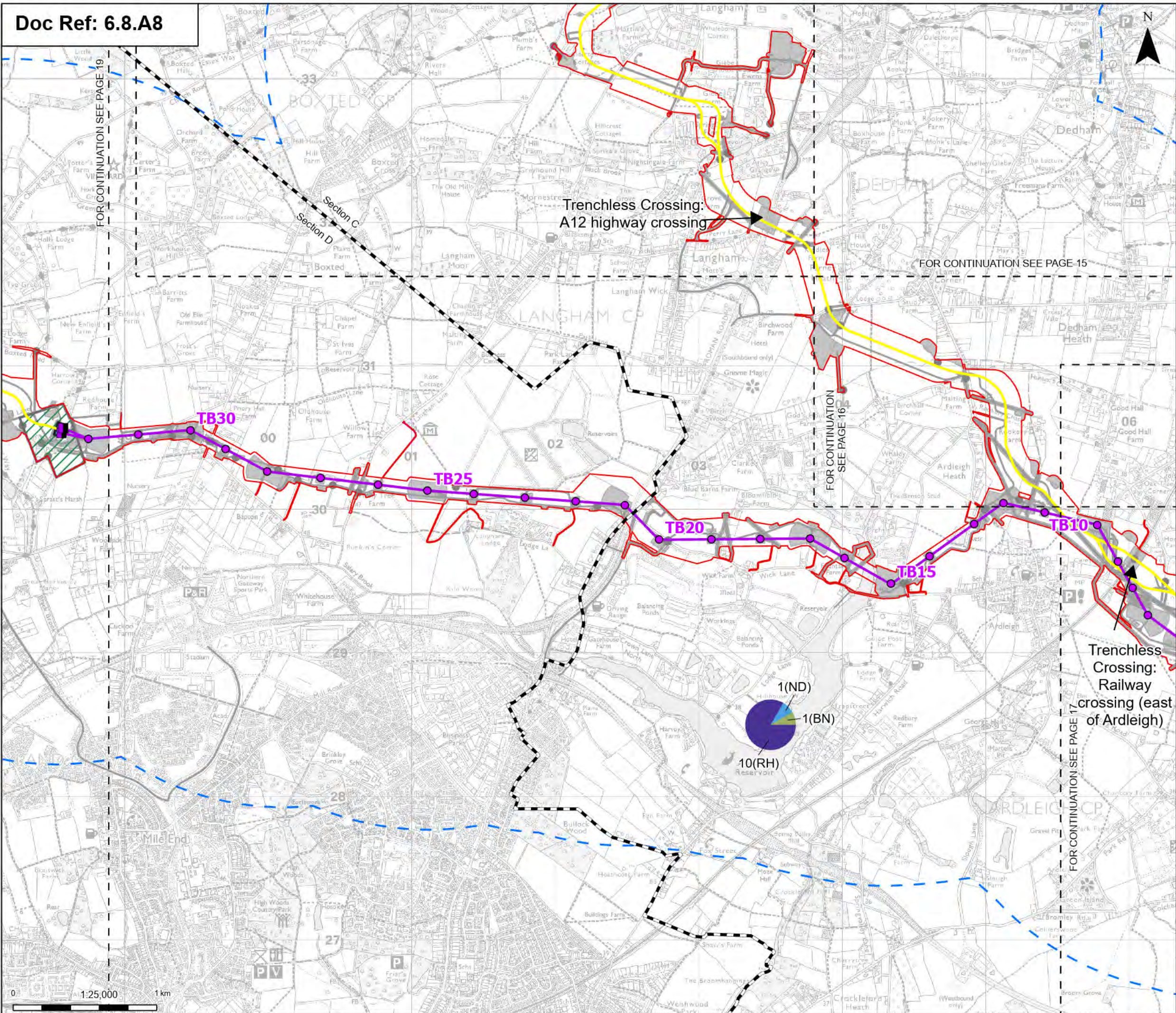
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Project section line

Proposed project design details

- 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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Legend:

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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 2025	FOR DCO APPLICATION	SS	AF	KB

PROJECT: **Norwich to Tilbury**

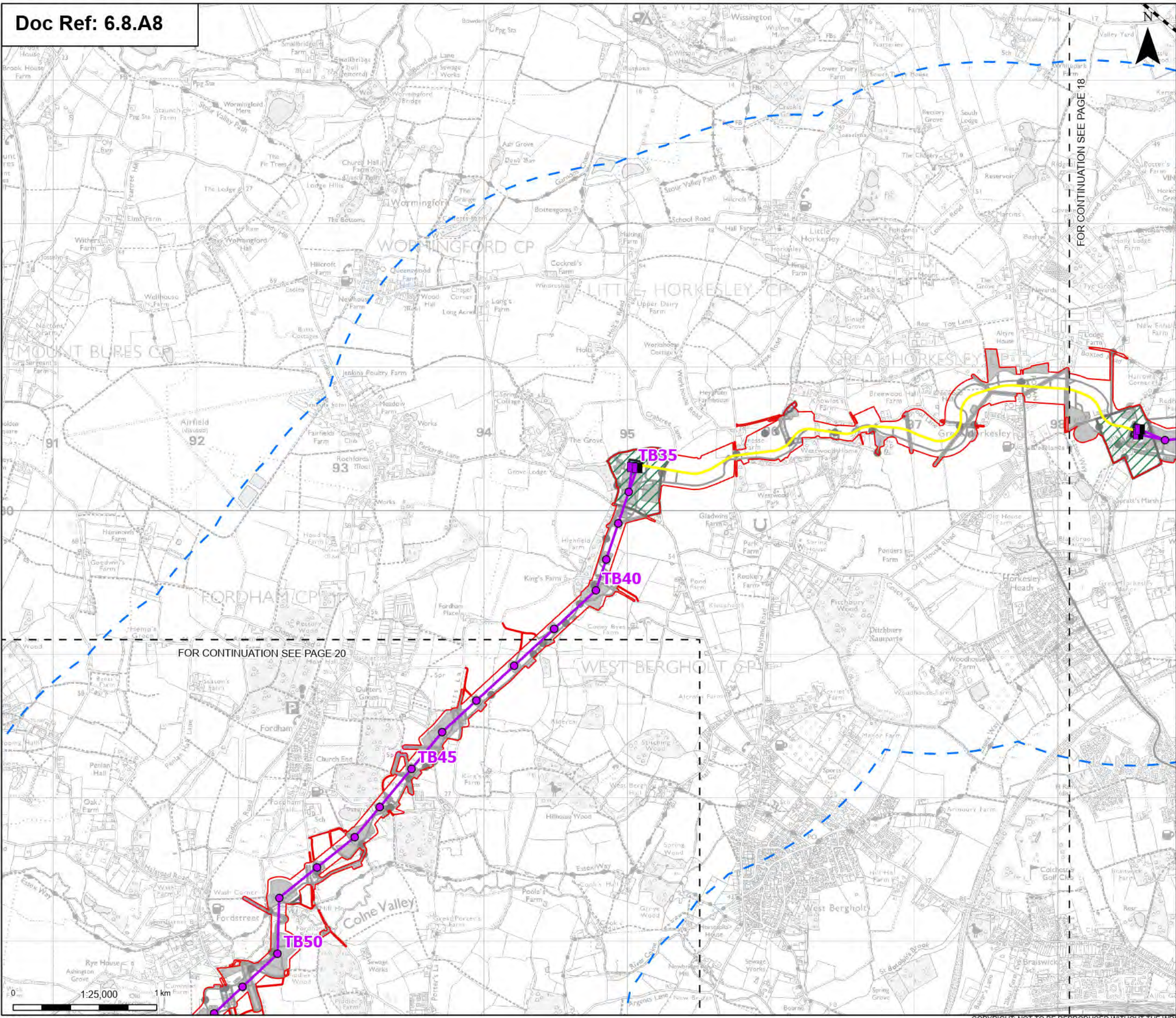
Planning Inspectorate App Number: EN020027 Regulation 5(2)(a)

Title: **Figure A8.8.7 - Ecology and Biodiversity Collision Risk Target Species Divers & Grebes (Desk Study Data 2013-2022) Page 18 of 31**

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	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-00320** Revision: **A**



Order limits

- Sheet index outline
- Project section line

Proposed project design details

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

Discipline specific constraints

- 2 km Study Area

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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 2025	FOR DCO APPLICATION	SS	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

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

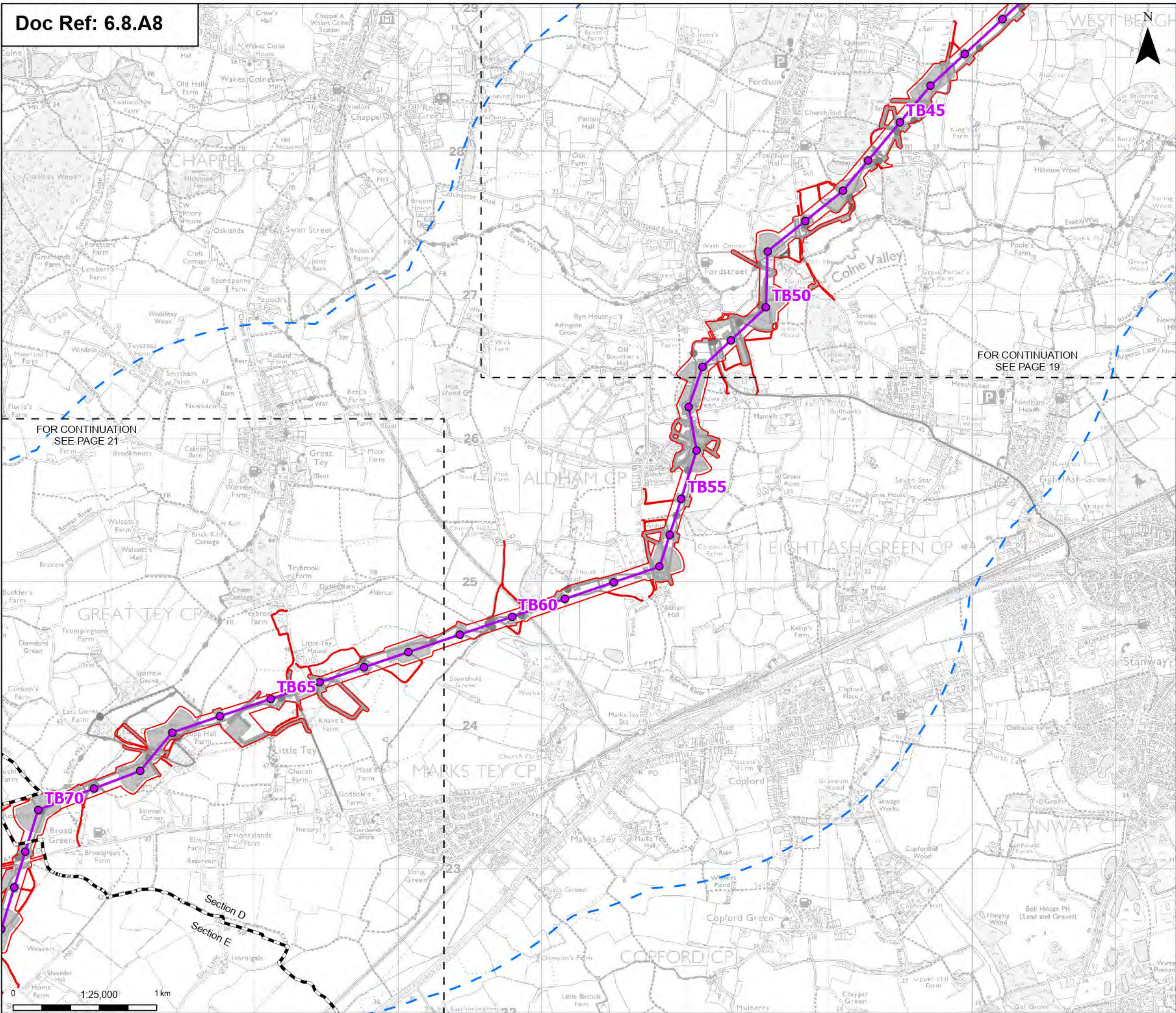
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**Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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Approved	K. Burrows	Date	21 Aug 25
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Suitability Description:
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Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00320

Revision:
A



Order limits

- Sheet index outline
- 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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

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)

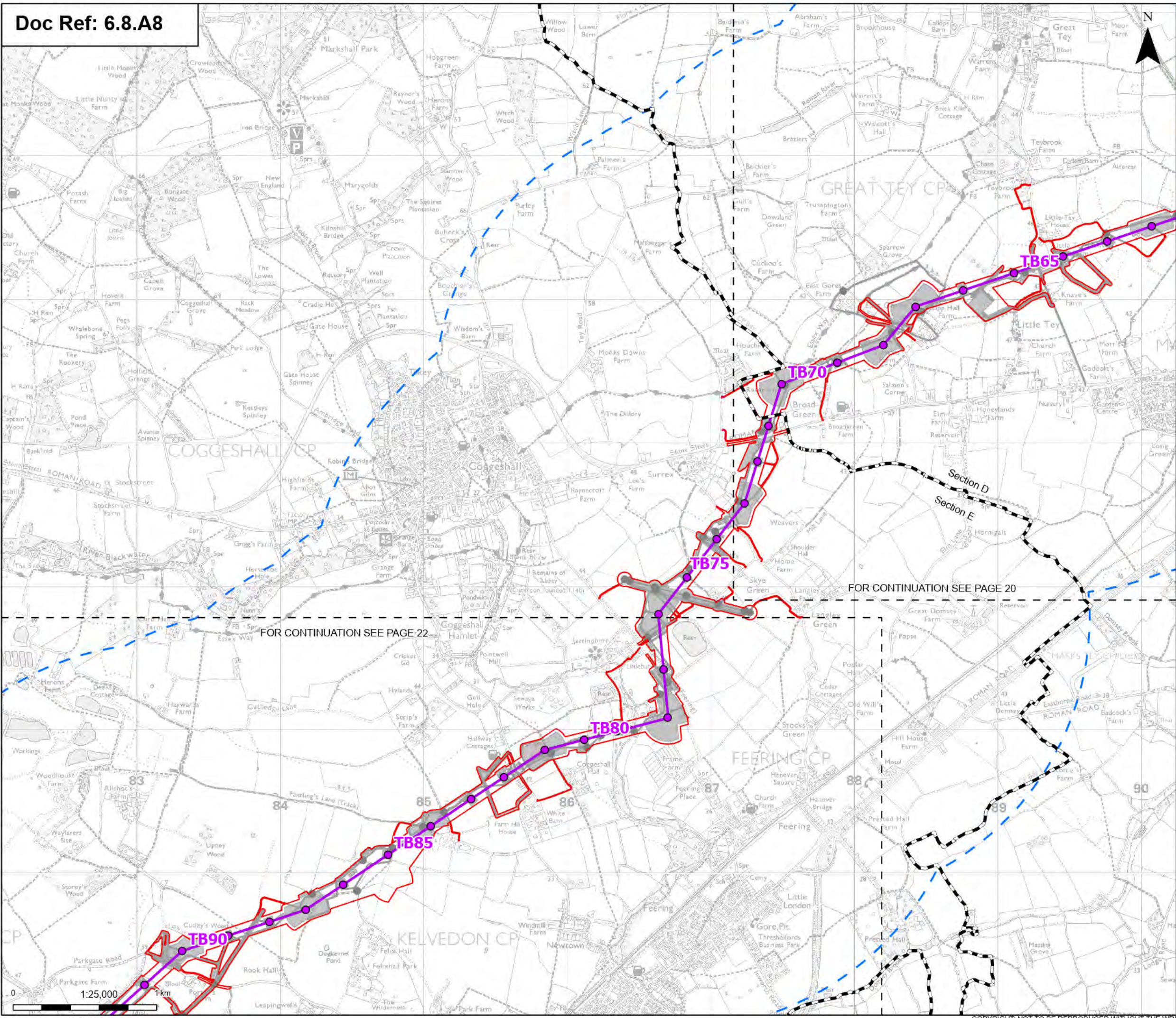
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Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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Drawing Number:
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Revision:
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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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

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

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Regulation 5(2)(a)

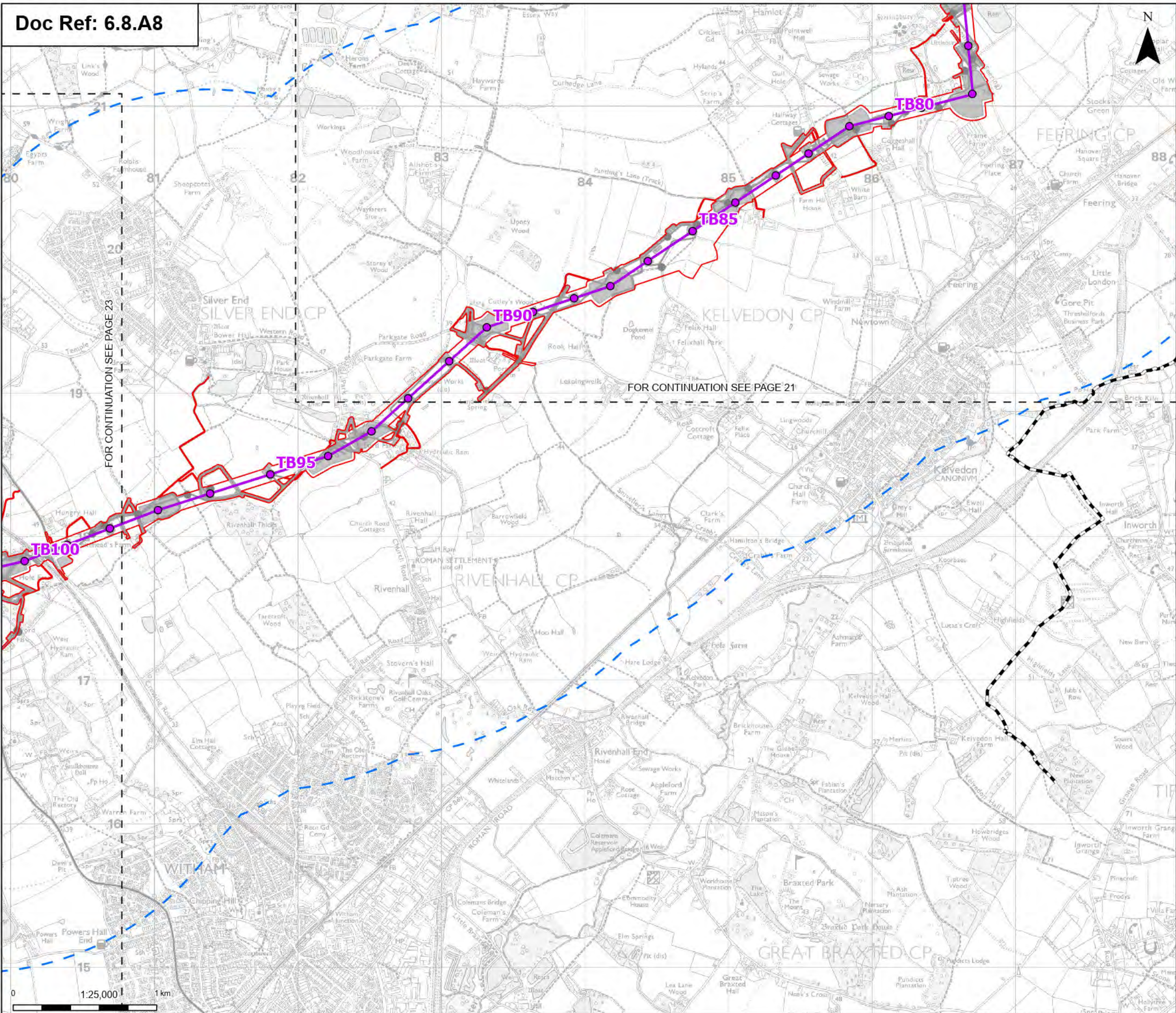
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Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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Revision:
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Order limits

- Sheet index outline
- 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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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

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

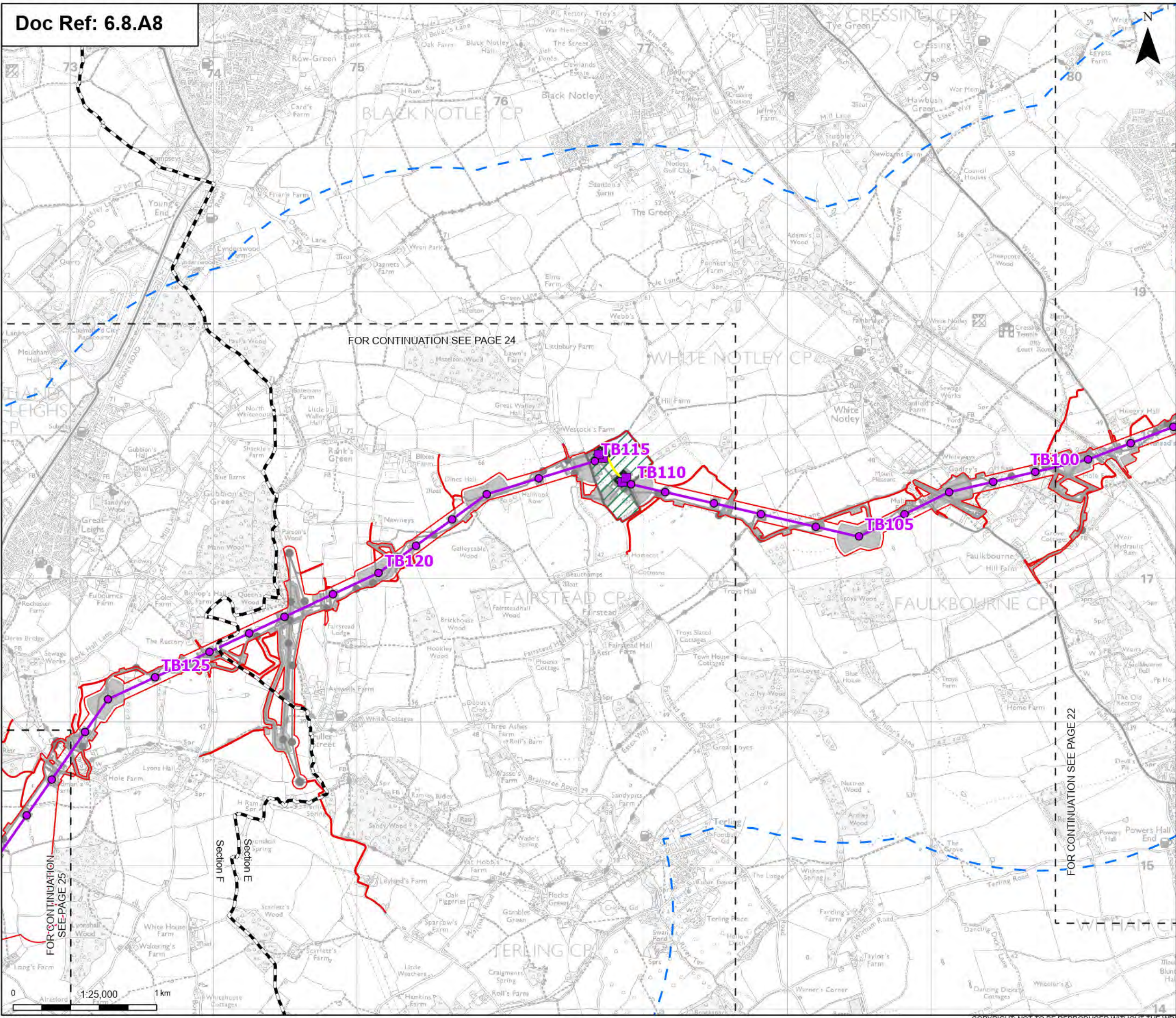
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**Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00320

Revision:
A



Order limits

- Sheet index outline
- Project section line

Proposed project design details

- 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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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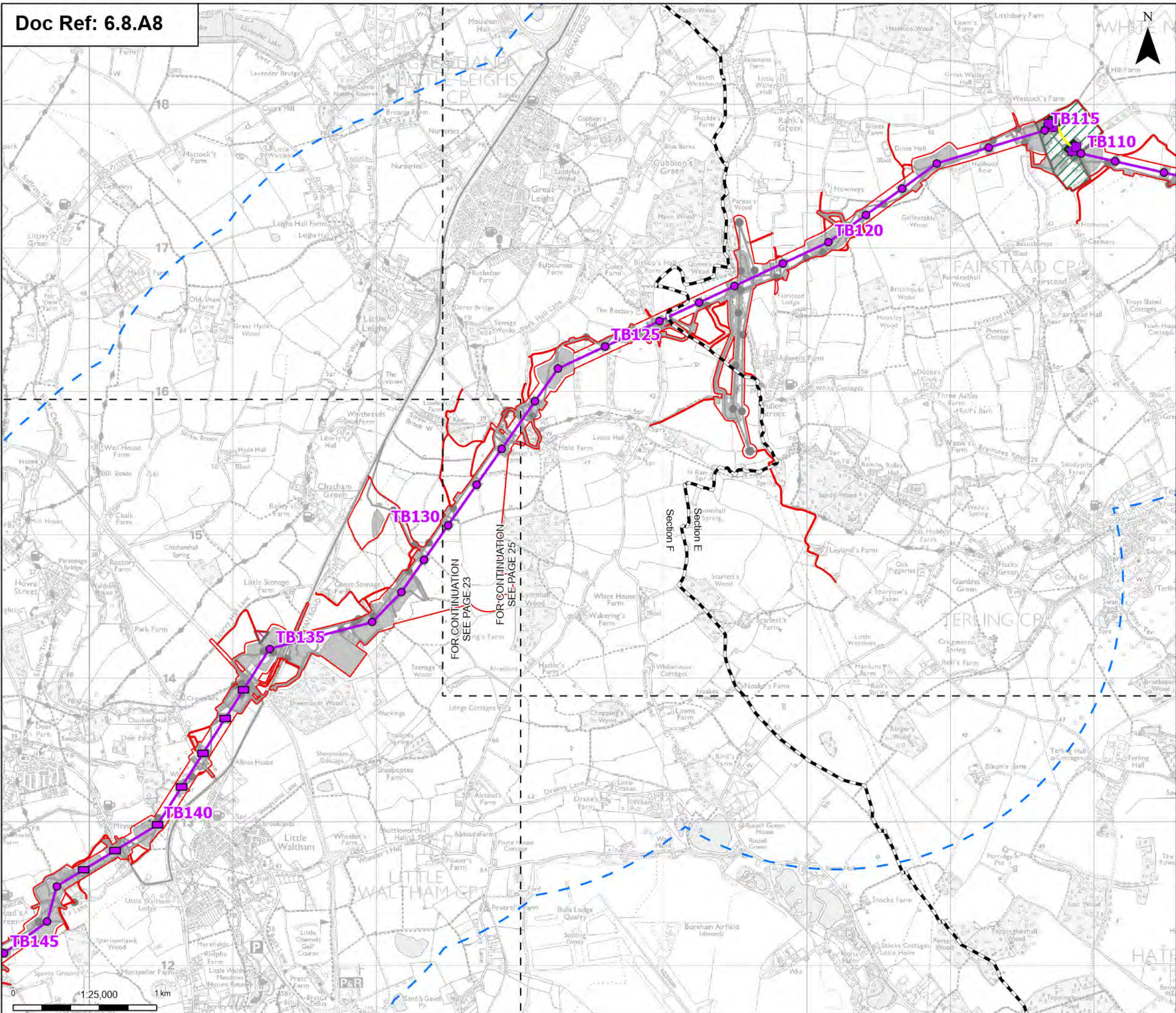
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Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00320

Revision:
A



Order limits

- Sheet index outline
- 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
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Legend

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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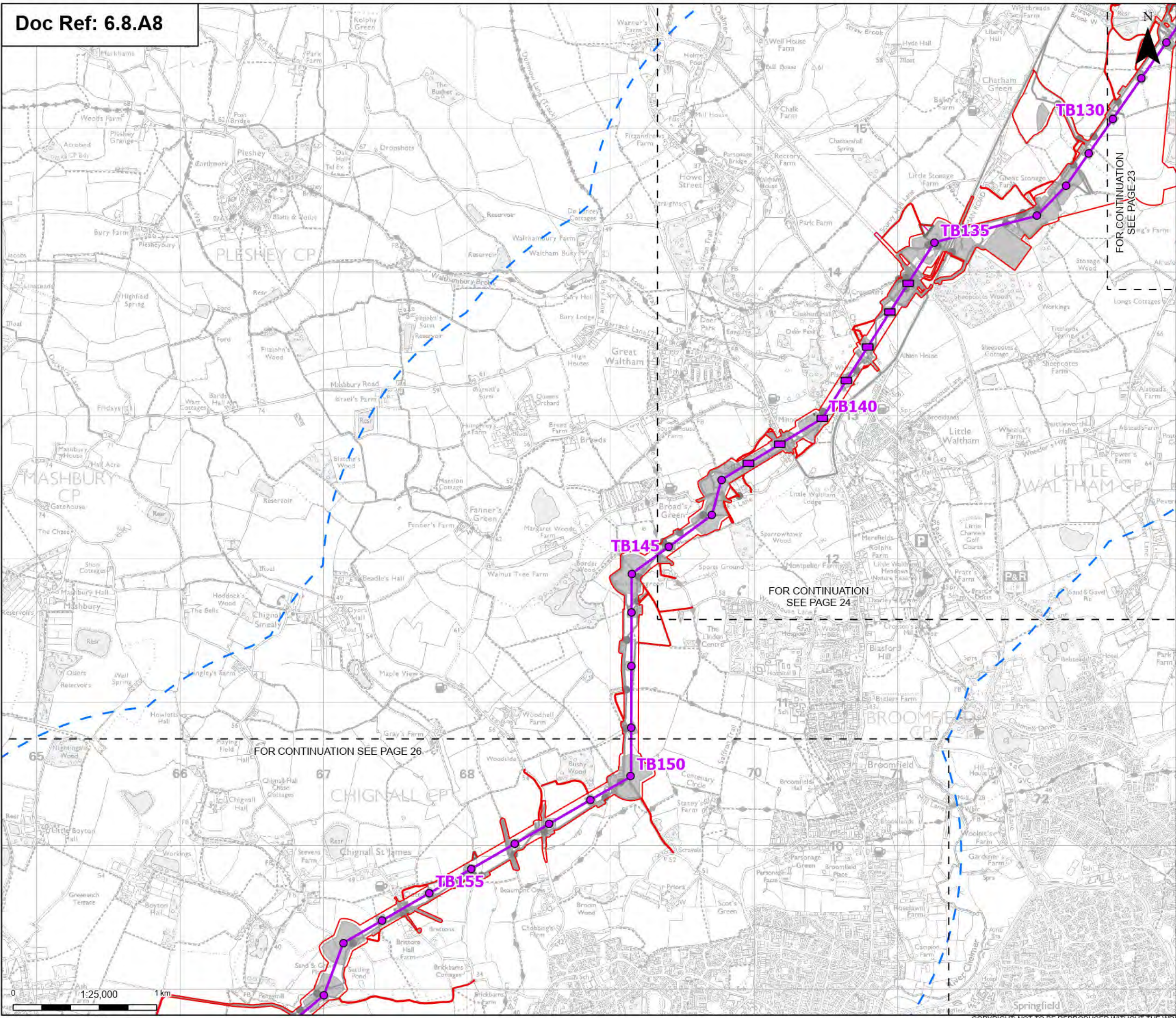
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Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00320

Revision:
A



Order limits
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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
Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Legend:
Black-necked grebe (BN)
Black-throated diver (BV)
Great northern diver (ND)
Red-necked grebe (RX)
Red-throated diver (RH)
Slavonian grebe (SZ)

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

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Regulation 5(2)(a)

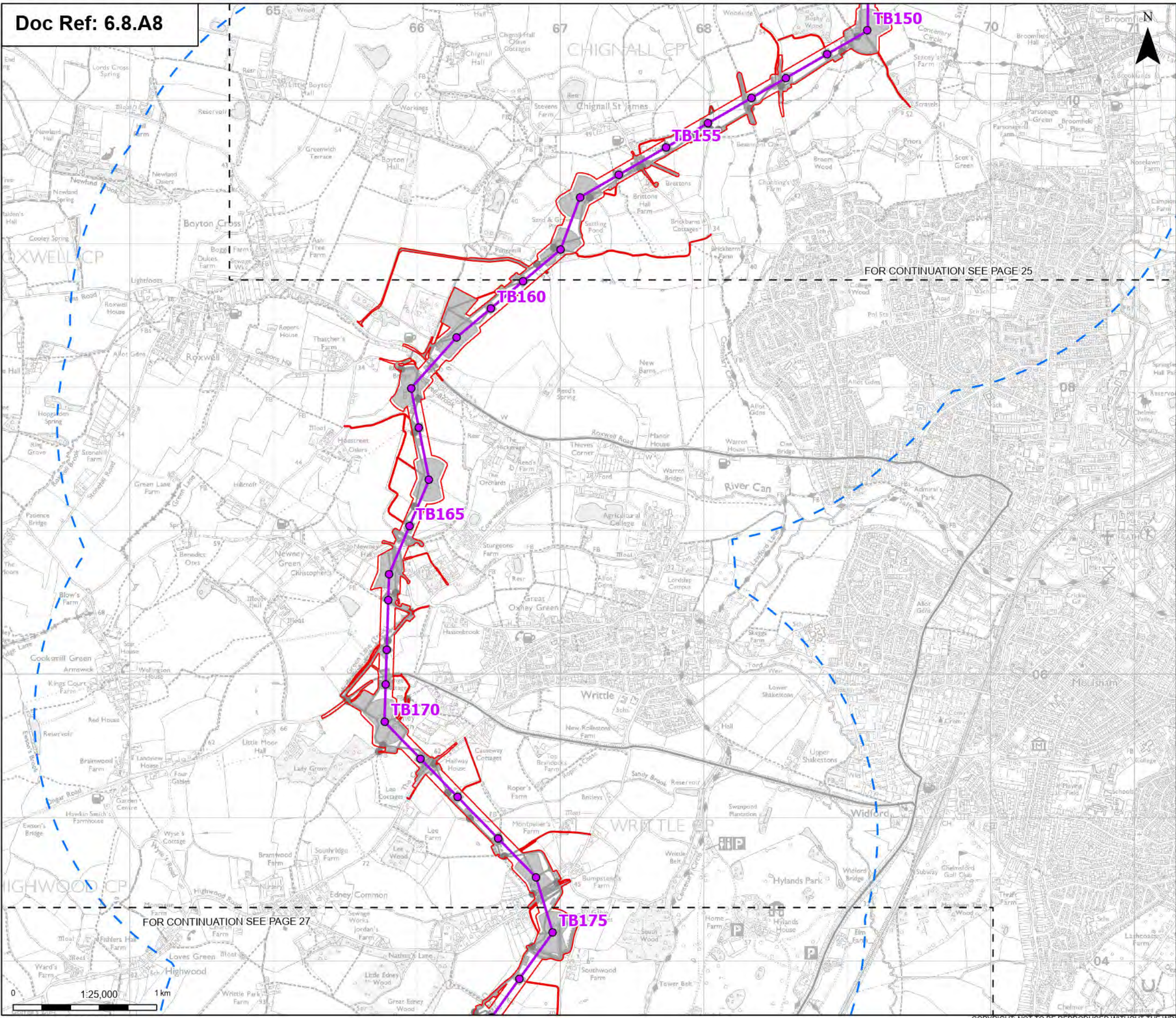
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Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
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Approved	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

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00320

Revision:
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Order limits

Sheet index outline

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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

- Black-necked grebe (BN)
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Rev	Date	Description	Drawn	Check	Approv
A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB

PROJECT:
nationalgrid Norwich to
Tilbury

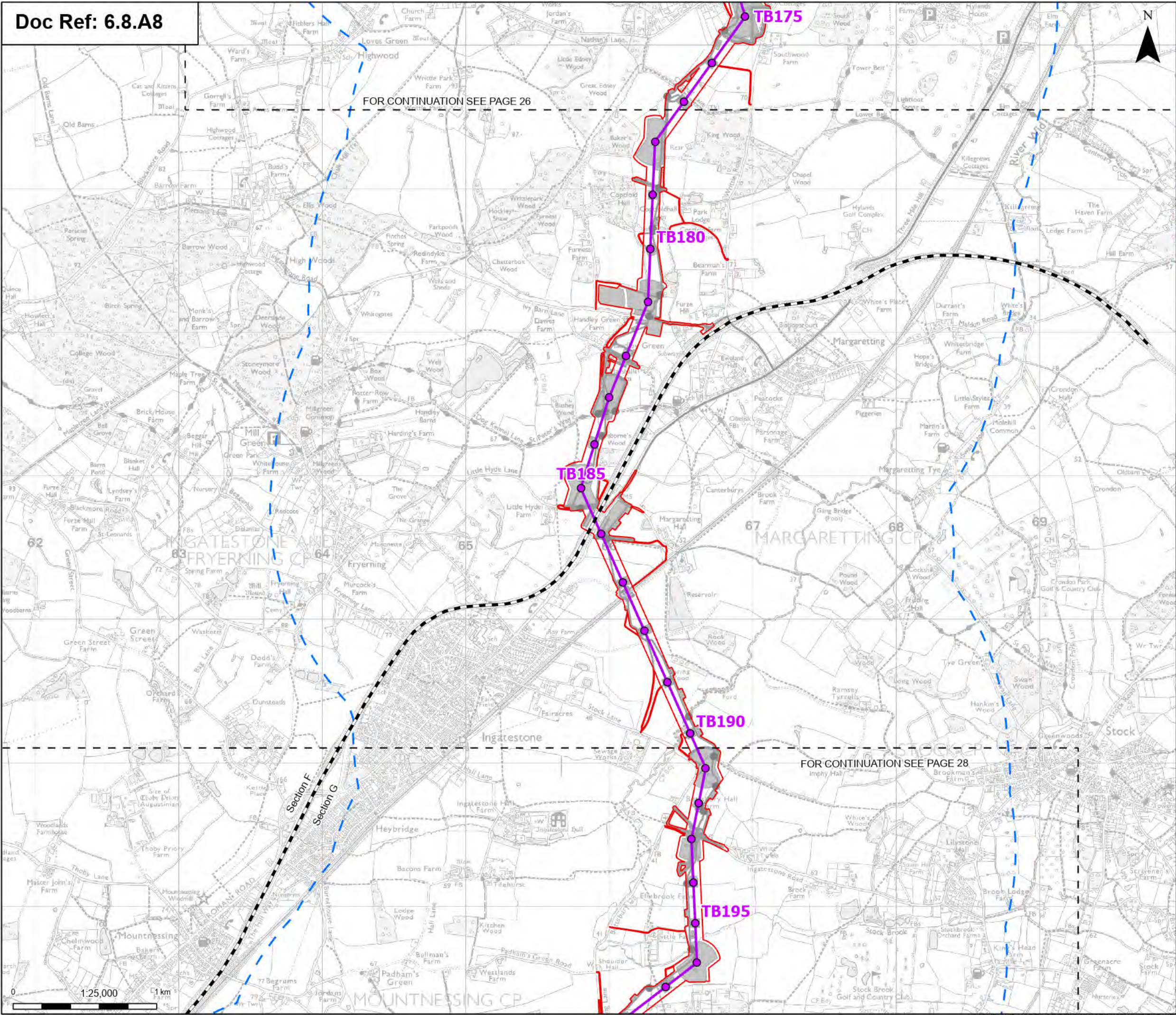
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Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
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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-00320	Revision: A
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Order limits

- Sheet index outline
- 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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

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

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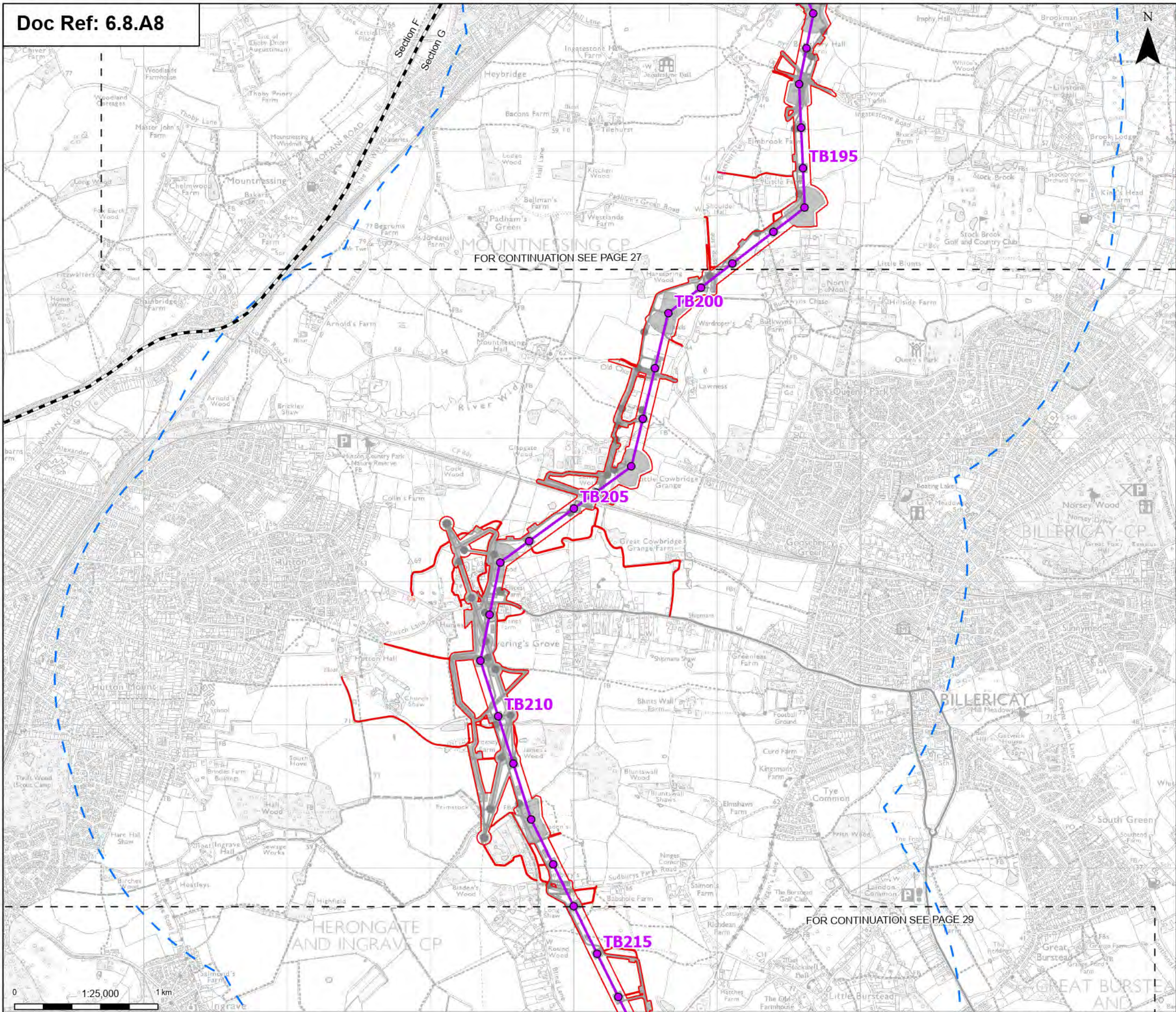
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Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
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Scale:	1:25,000	Datum:	AOD
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Revision:
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Order limits

- Sheet index outline
- 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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Black-necked grebe (BN)
Black-throated diver (BV)
Great northern diver (ND)
Red-necked grebe (RX)
Red-throated diver (RH)
Slavonian grebe (SZ)

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Rev	Date	Description	Drawn	Check	Approv
A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

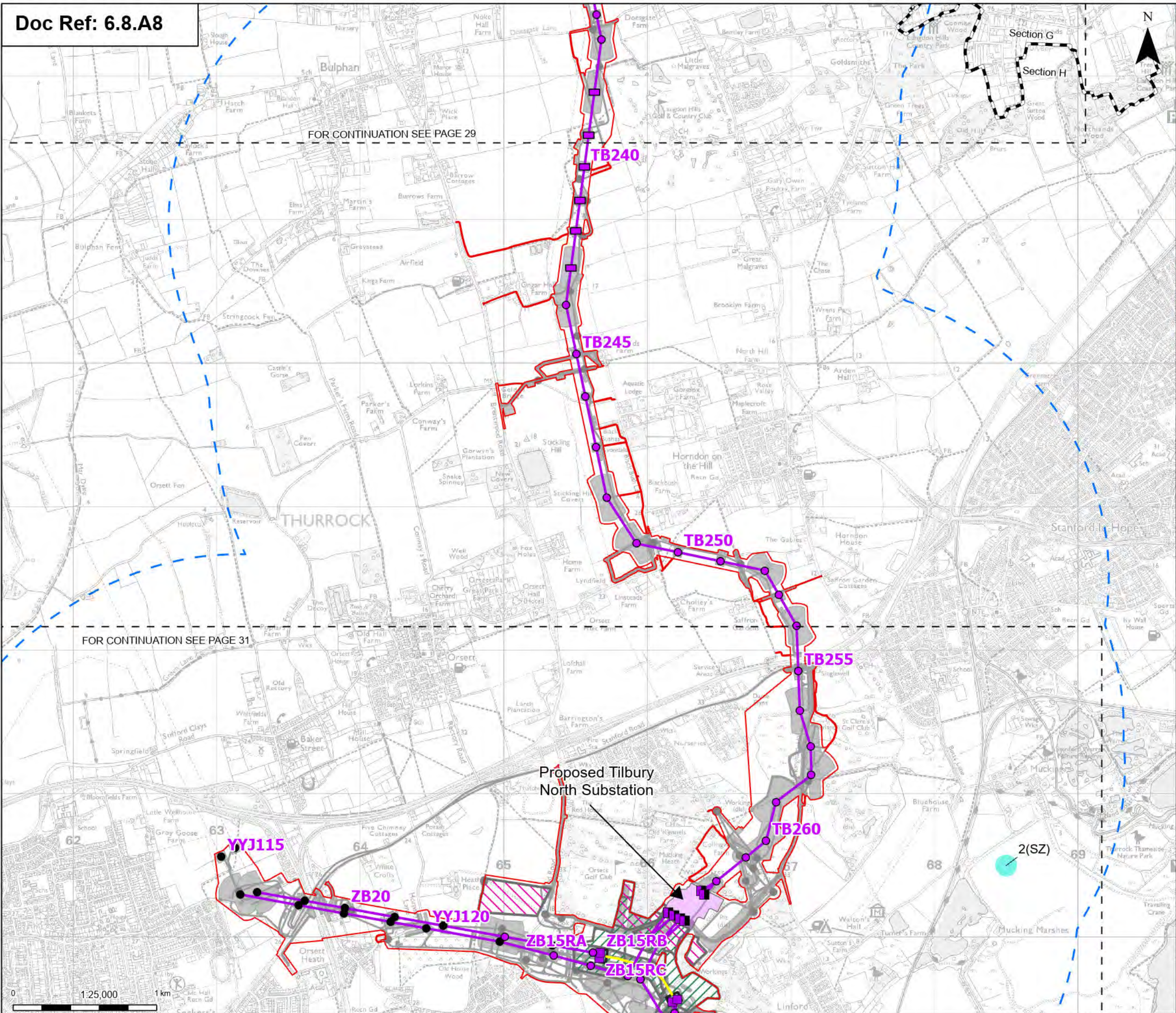
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Title:
Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Drawn	S. Sarkar	Date	21 Aug 25
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Suitability Description:
Accepted as Concept Stage

Drawing Number:
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Revision:
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Order limits

- Sheet index outline
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Proposed project design details

- Proposed full line tension gantry
- Proposed low duty gantry
- Proposed low height pylon location
- 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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

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:
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Tilbury

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

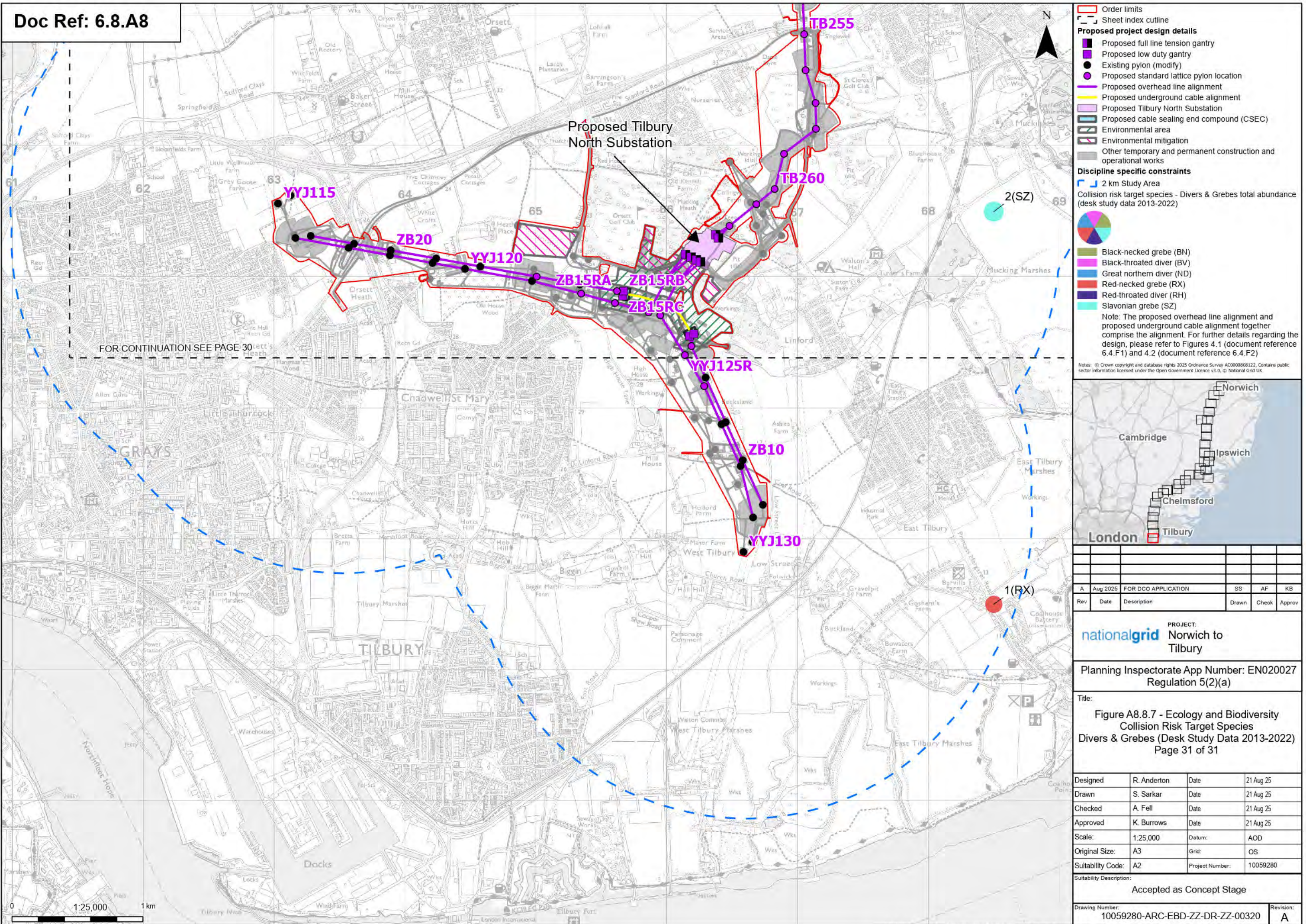
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Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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Order limits

- 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

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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

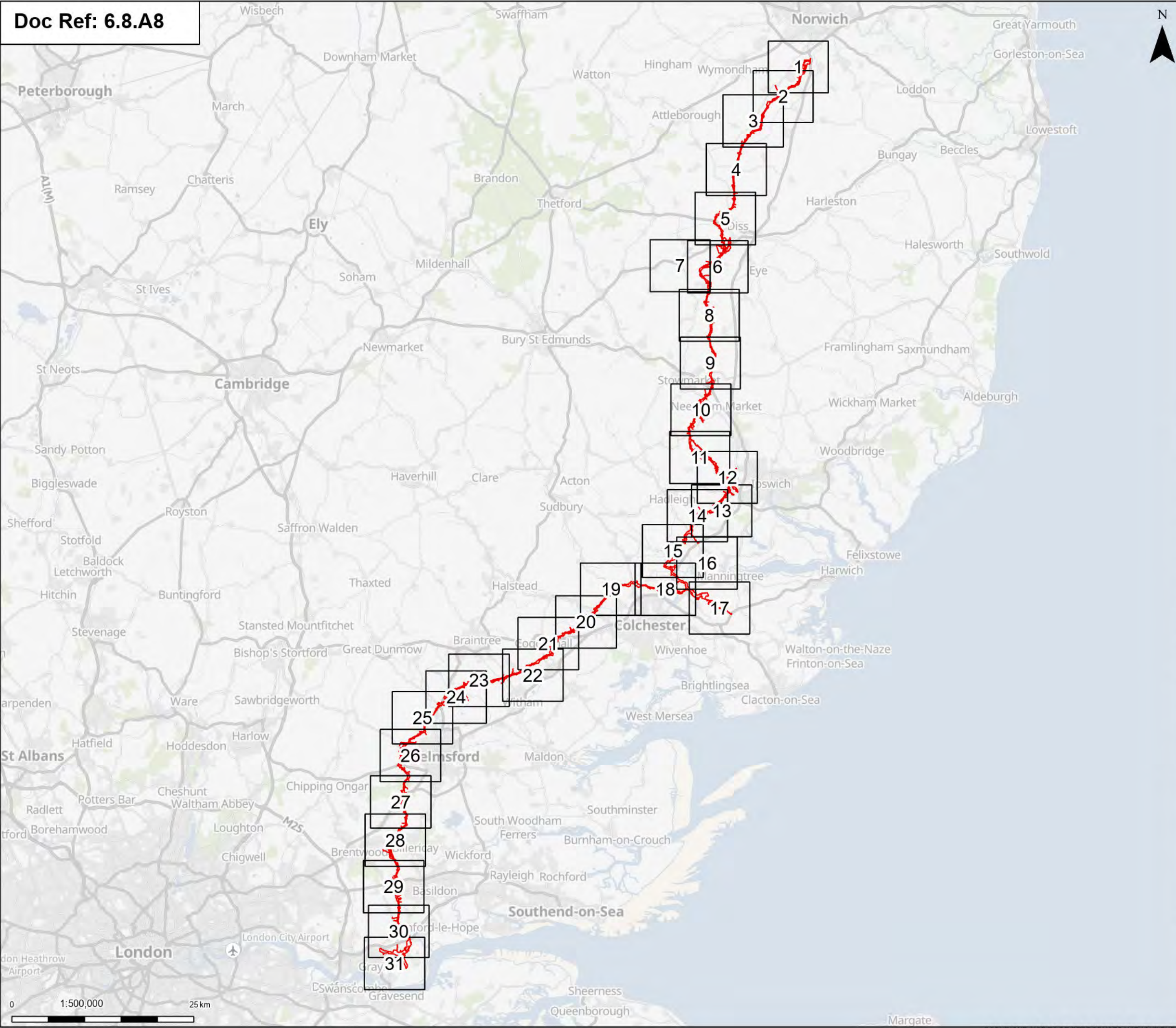
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Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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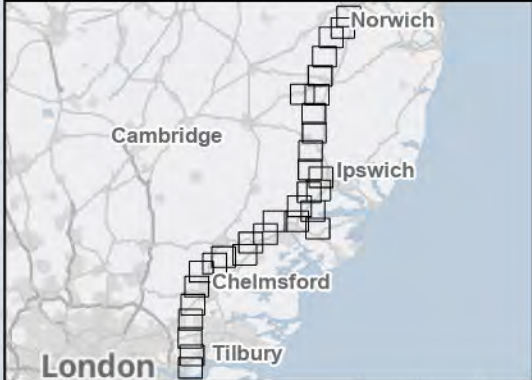
Suitability Description:
Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00320	Revision: A
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PROJECT:
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Tilbury

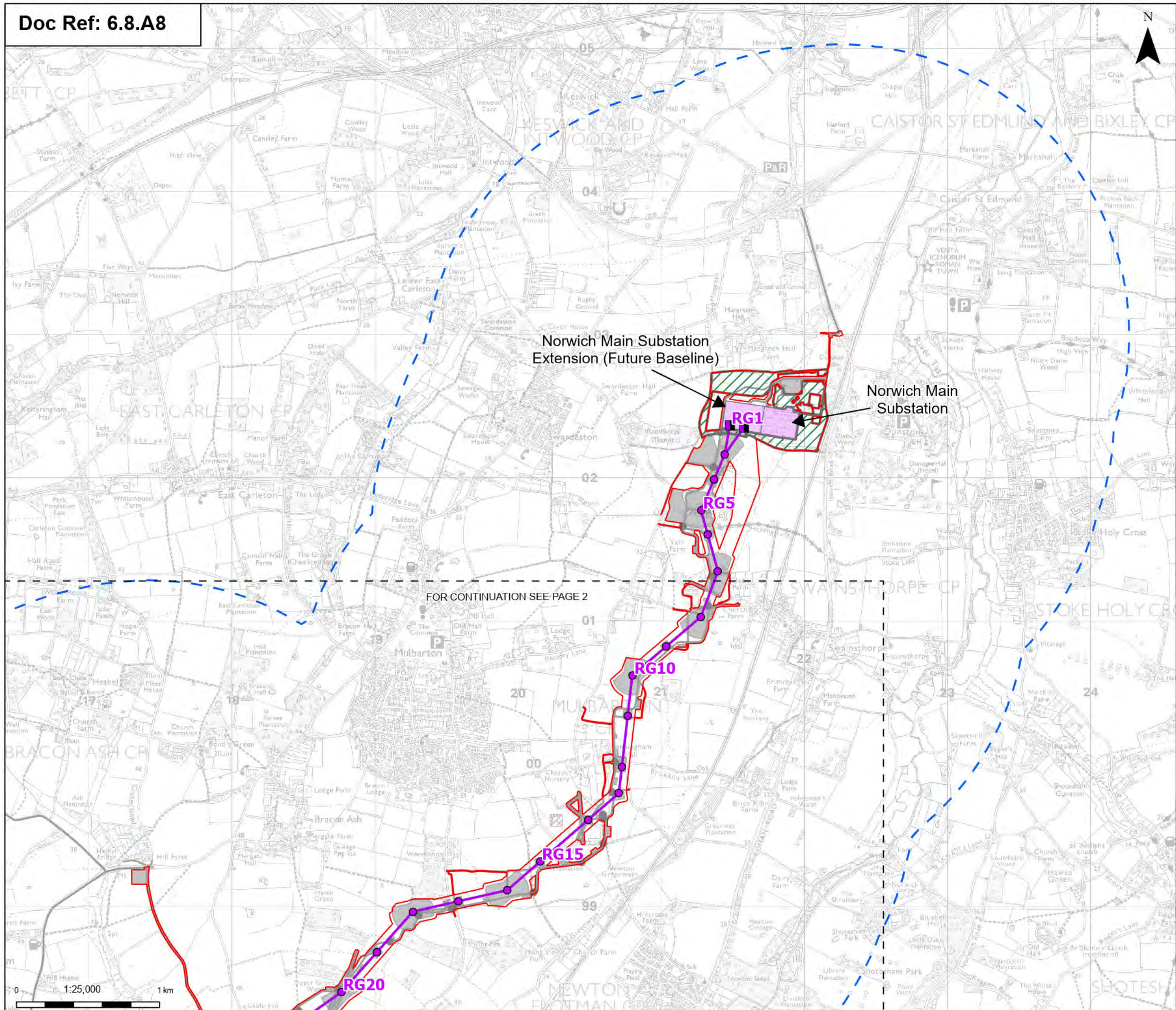
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Regulation 5(2)(a)

Title:
Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
Overview

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Suitability Description:
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10059280-ARC-EBD-ZZ-DR-ZZ-00321
Revision:
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Order limits

Sheet index outline

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

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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**

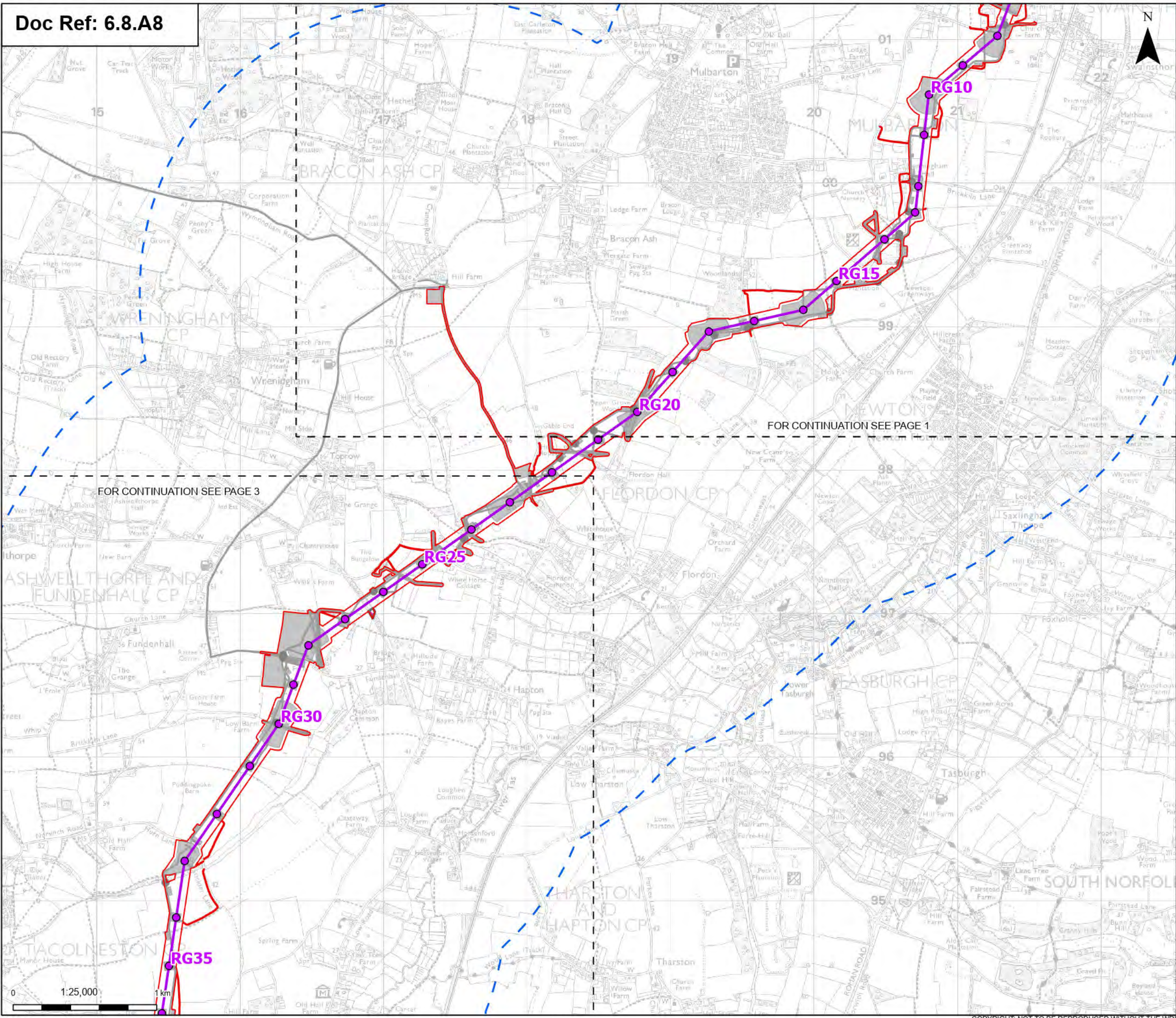
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
**Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)**
Page 1 of 31

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
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-00321
Revision: A



Order limits

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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

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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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nationalgrid

PROJECT:
Norwich to
Tilbury

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

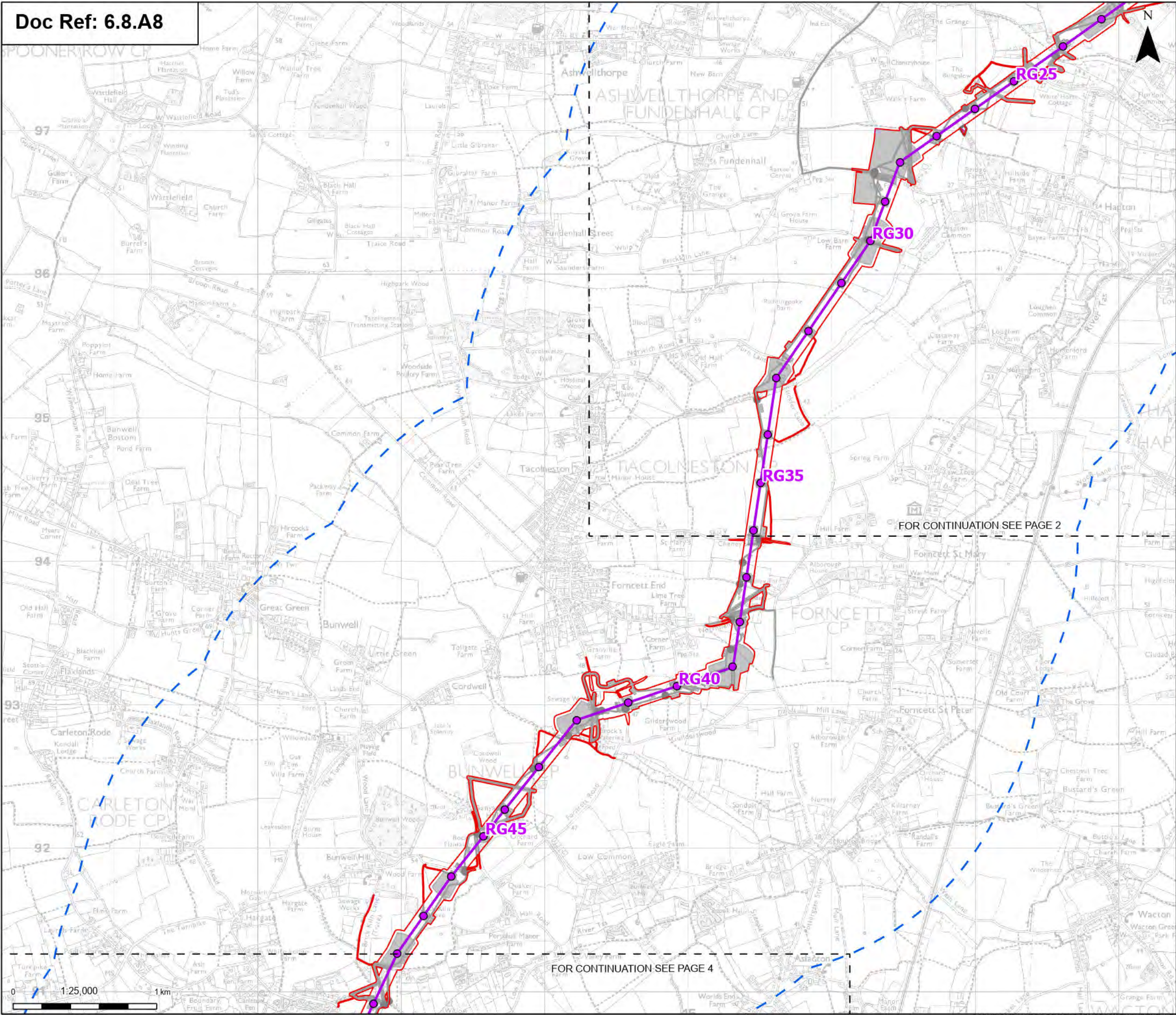
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Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00321	Revision: A
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Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

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Discipline specific constraints

2 km Study Area

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

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PROJECT:
nationalgrid Norwich to Tilbury

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

Title:
**Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
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Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
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Suitability Description:
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Revision:
A

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Proposed project design details

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Discipline specific constraints

2 km Study Area

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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 A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
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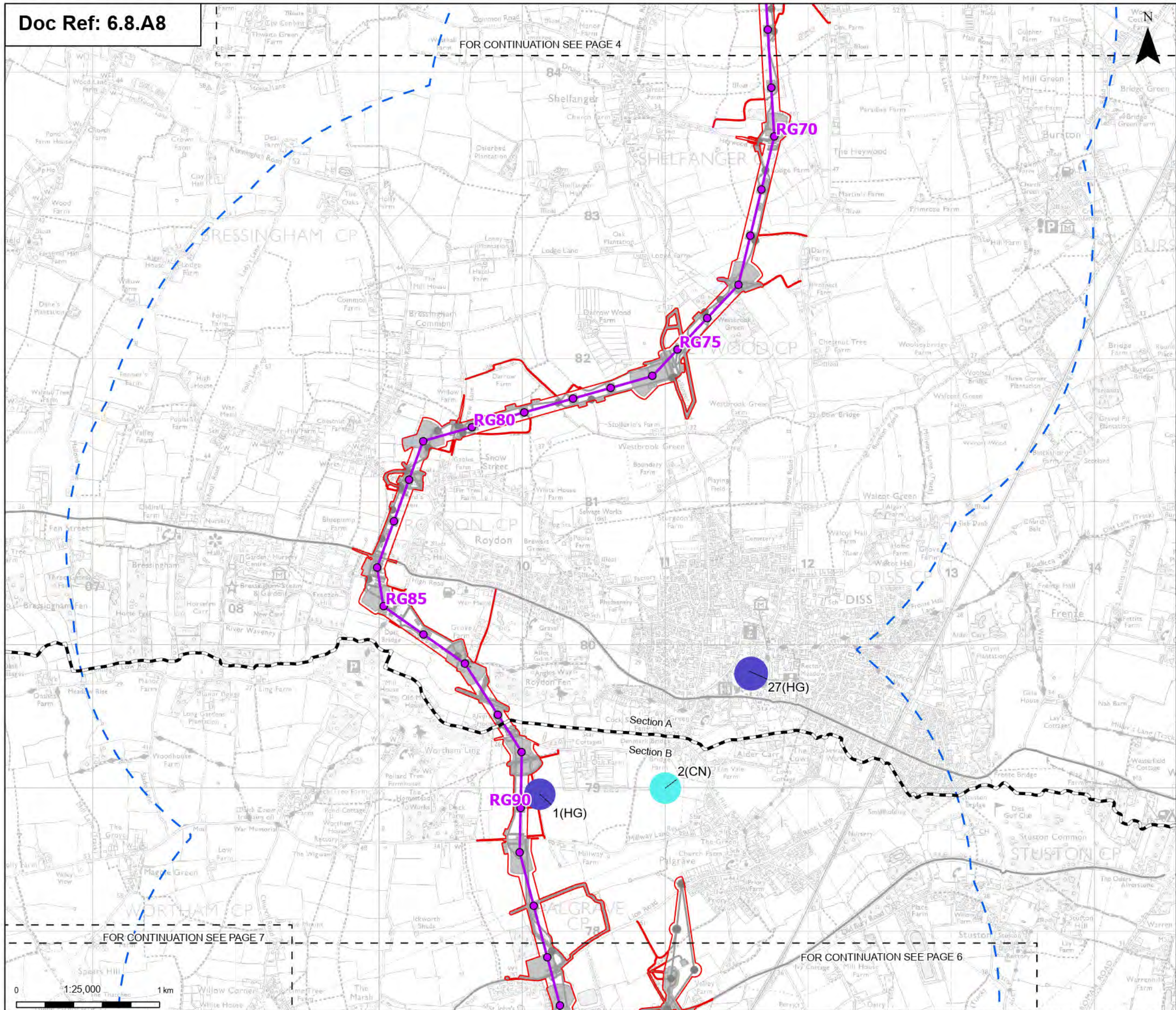
Suitability Description:
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2 km Study Area

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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:
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Title:
Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
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Accepted as Concept Stage

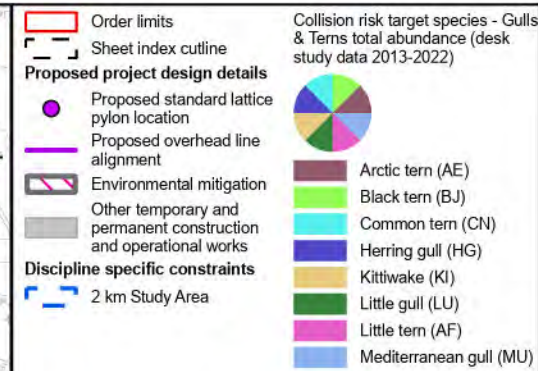
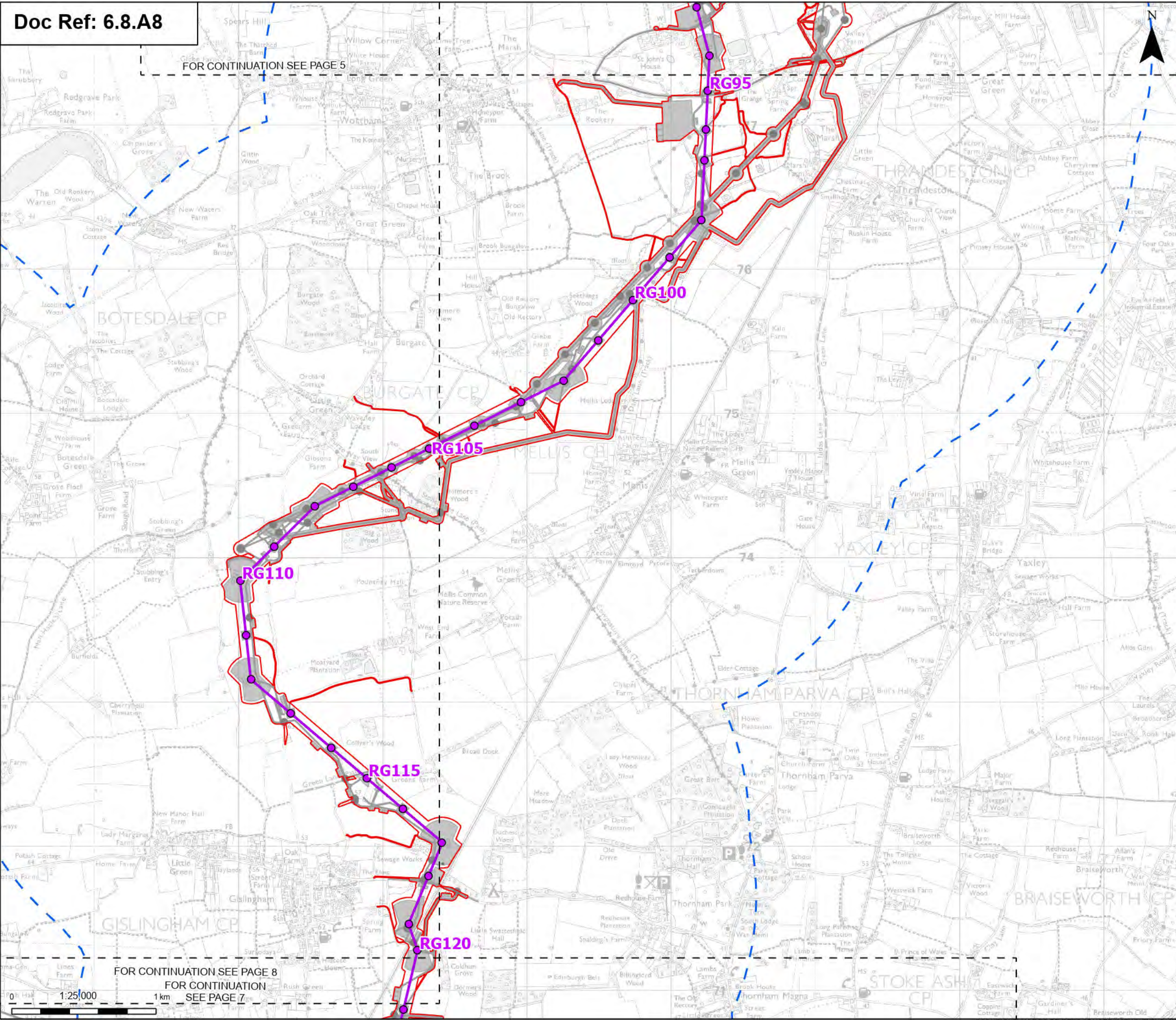
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PROJECT:
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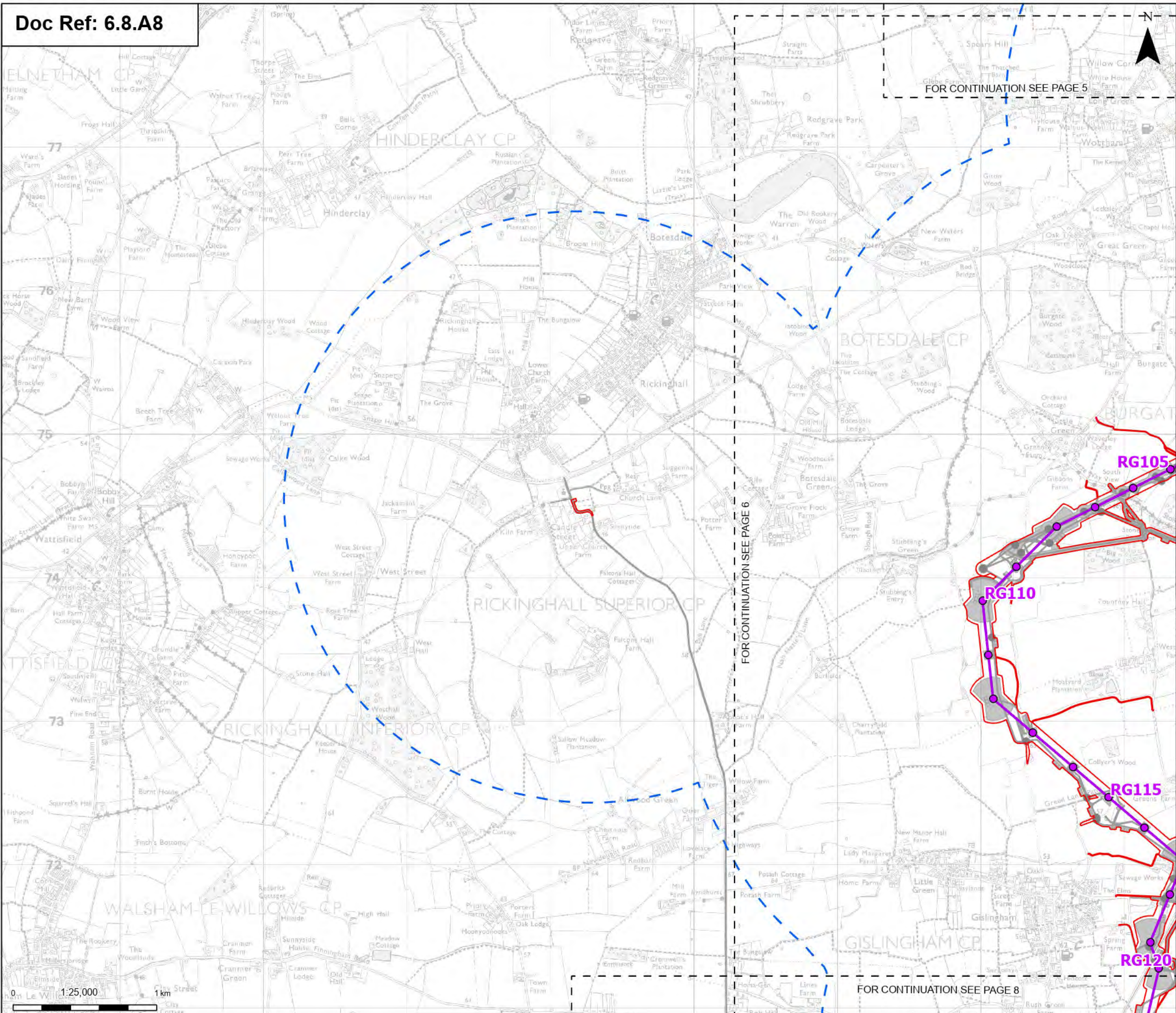
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Collision Risk Target Species
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Discipline specific constraints

2 km Study Area

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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:
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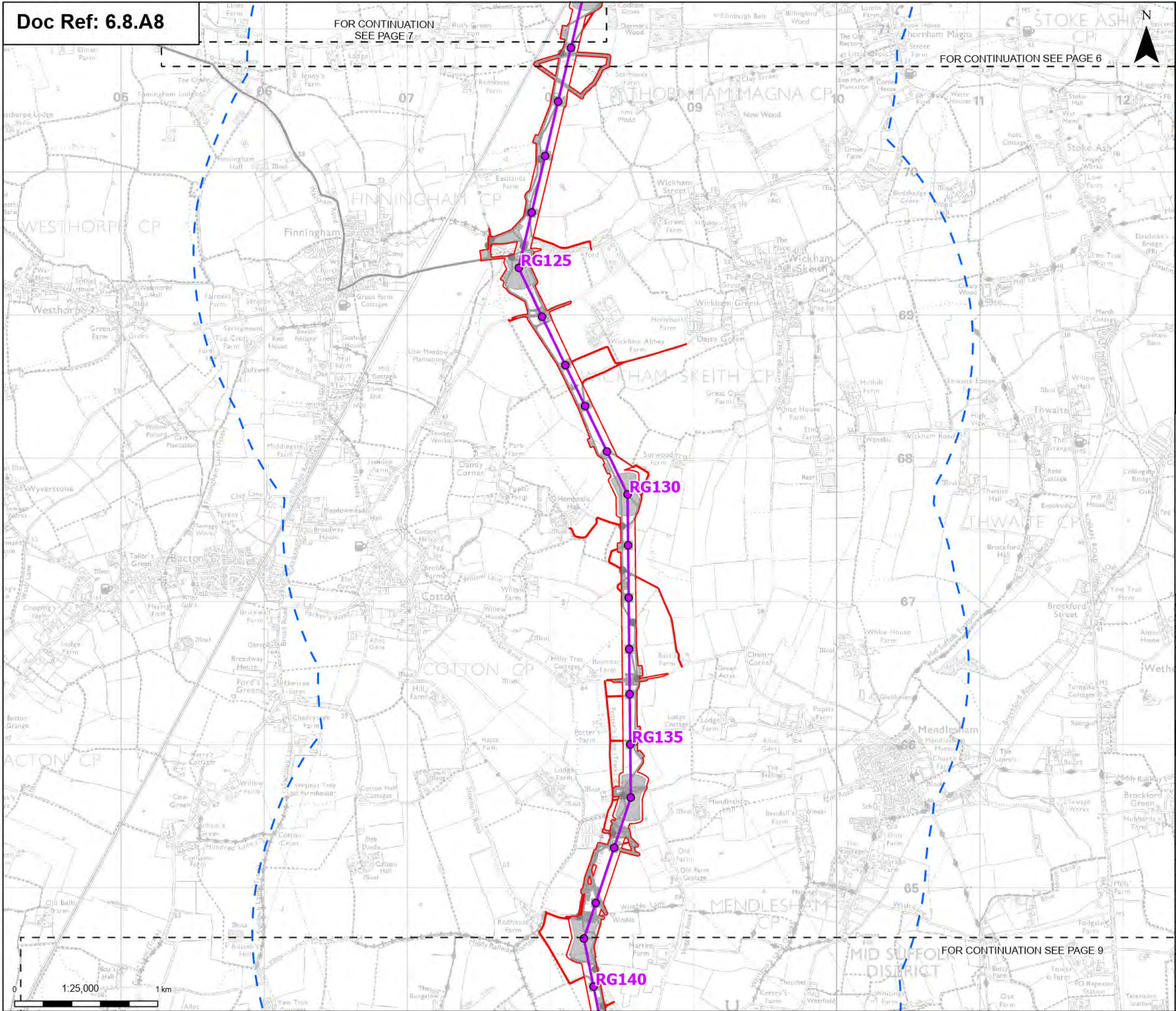
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Regulation 5(2)(a)

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Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
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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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Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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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Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
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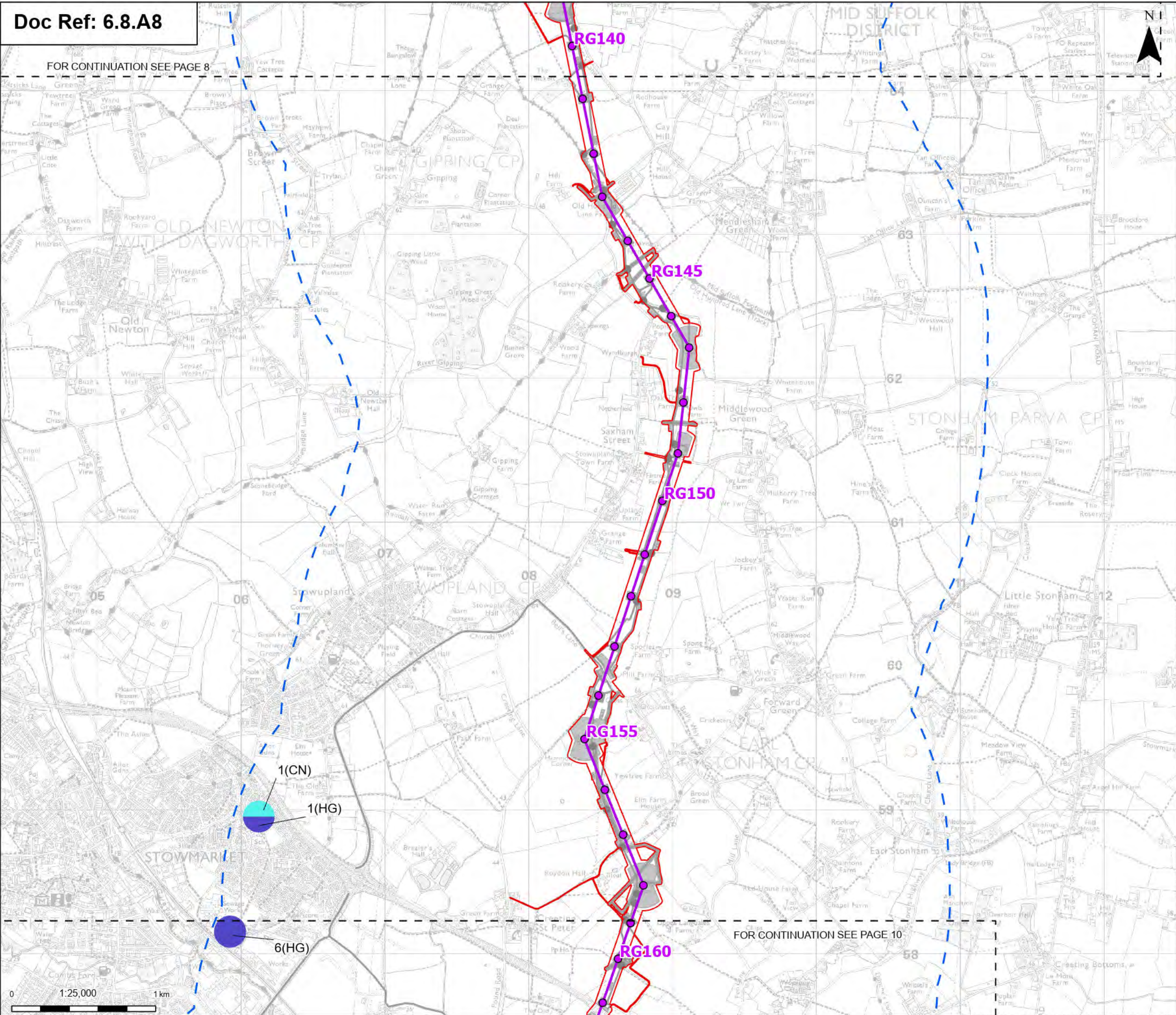
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Suitability Code:	A2	Project Number:	10059280

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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

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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

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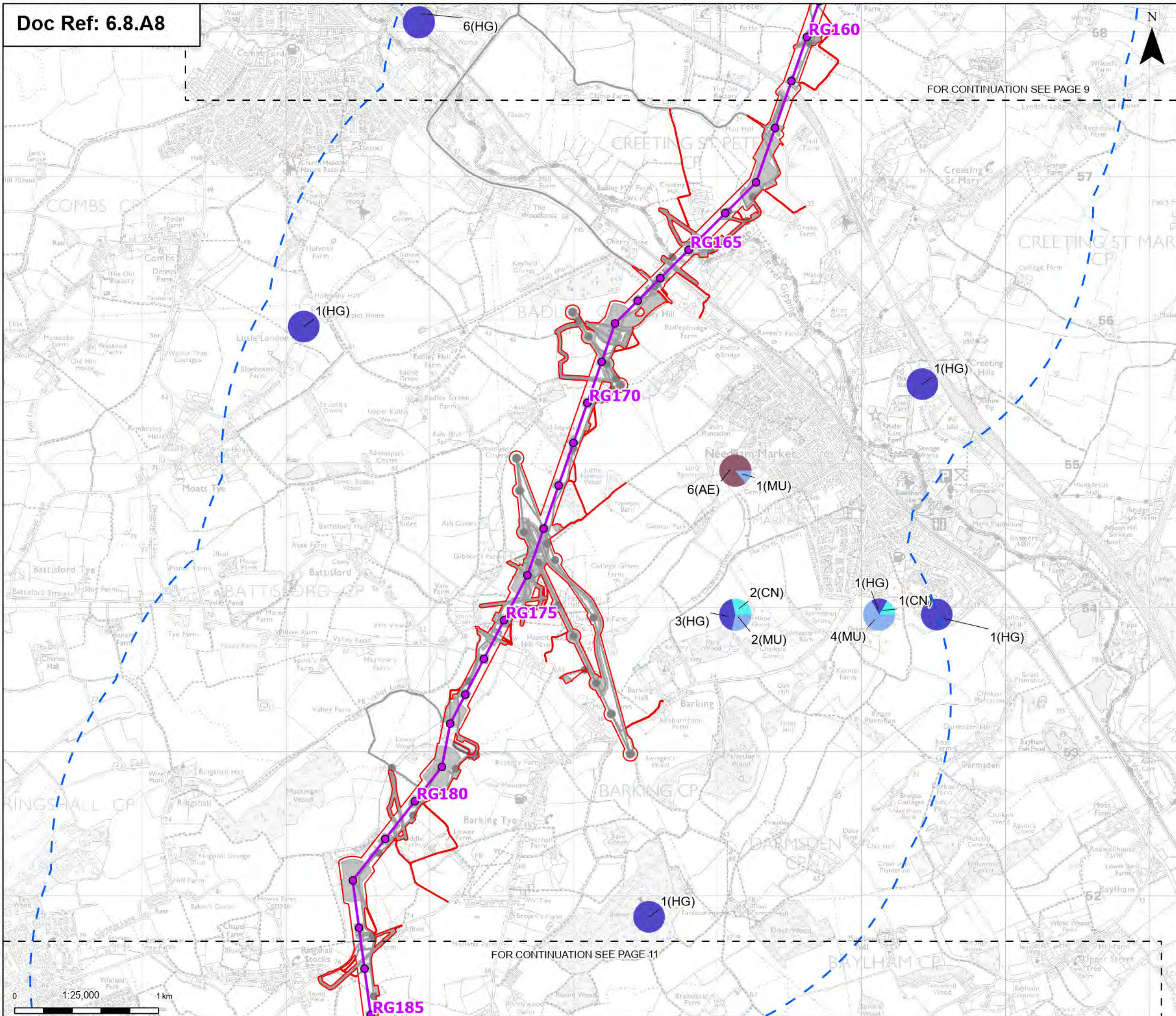
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Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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Proposed project design details

Proposed standard lattice pylon location

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Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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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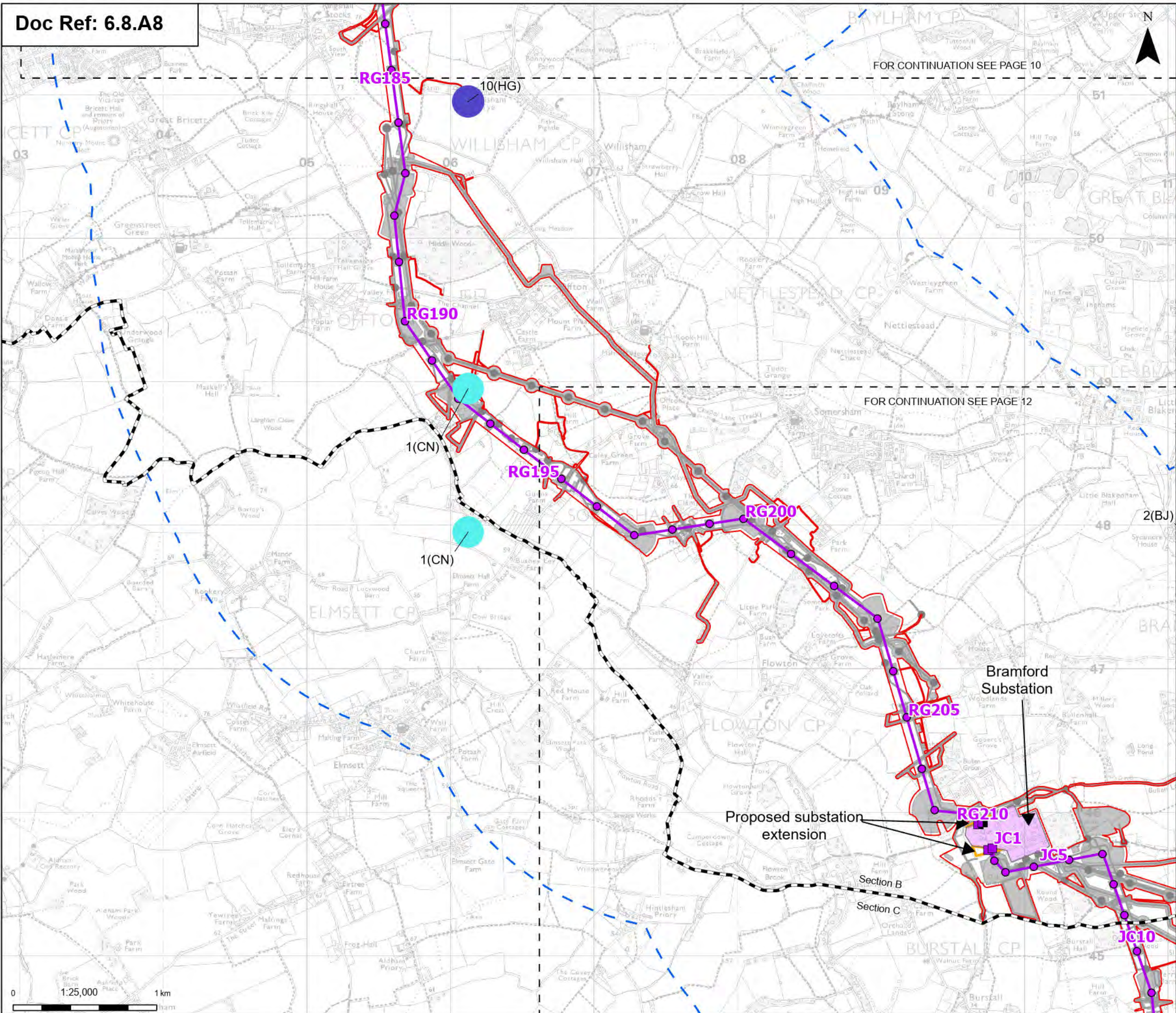
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Figure A8.8.8 - Ecology and Biodiversity Collision Risk Target Species Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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- 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

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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

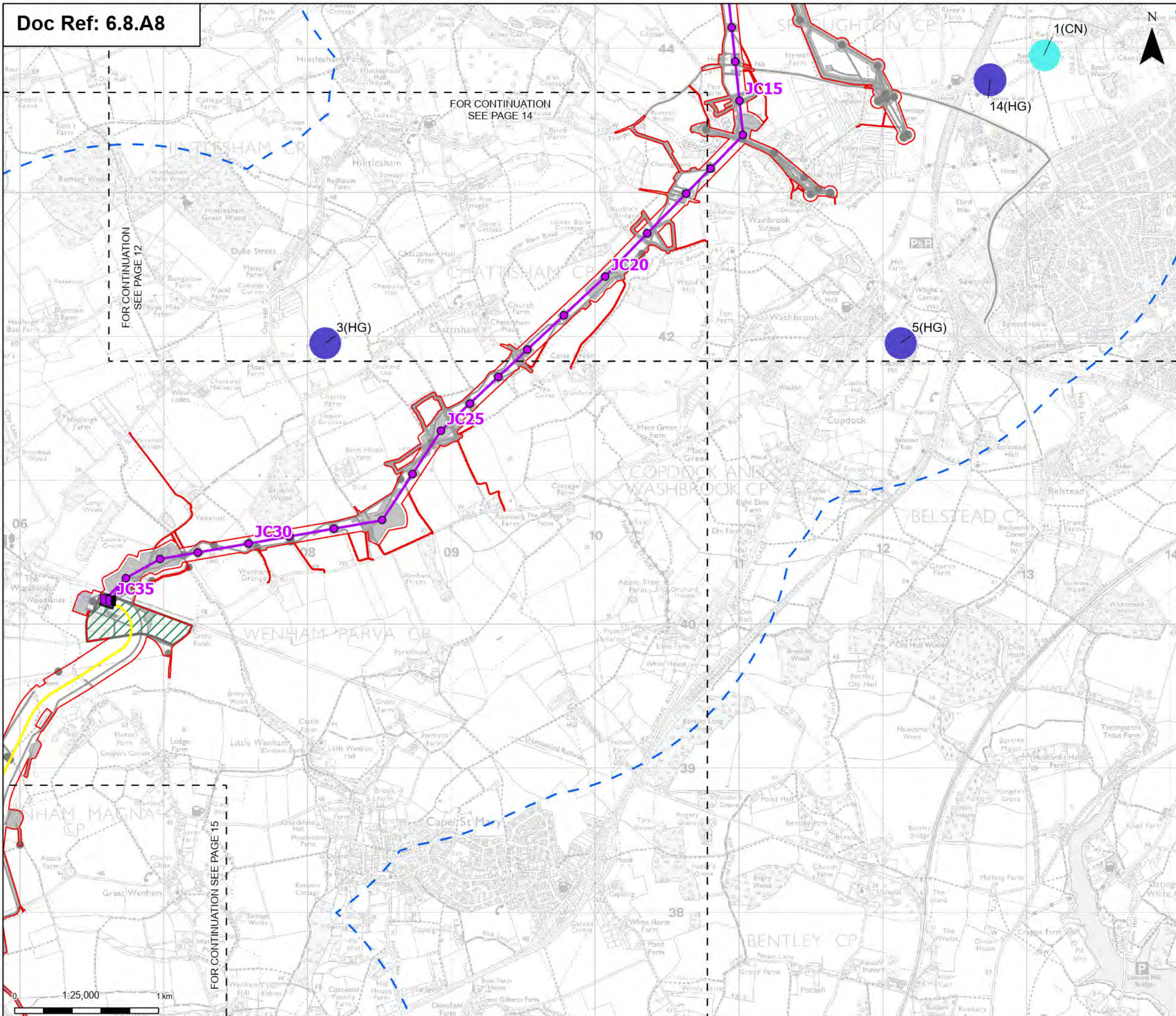
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Figure A8.8.8 - Ecology and Biodiversity
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

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2 km Study Area

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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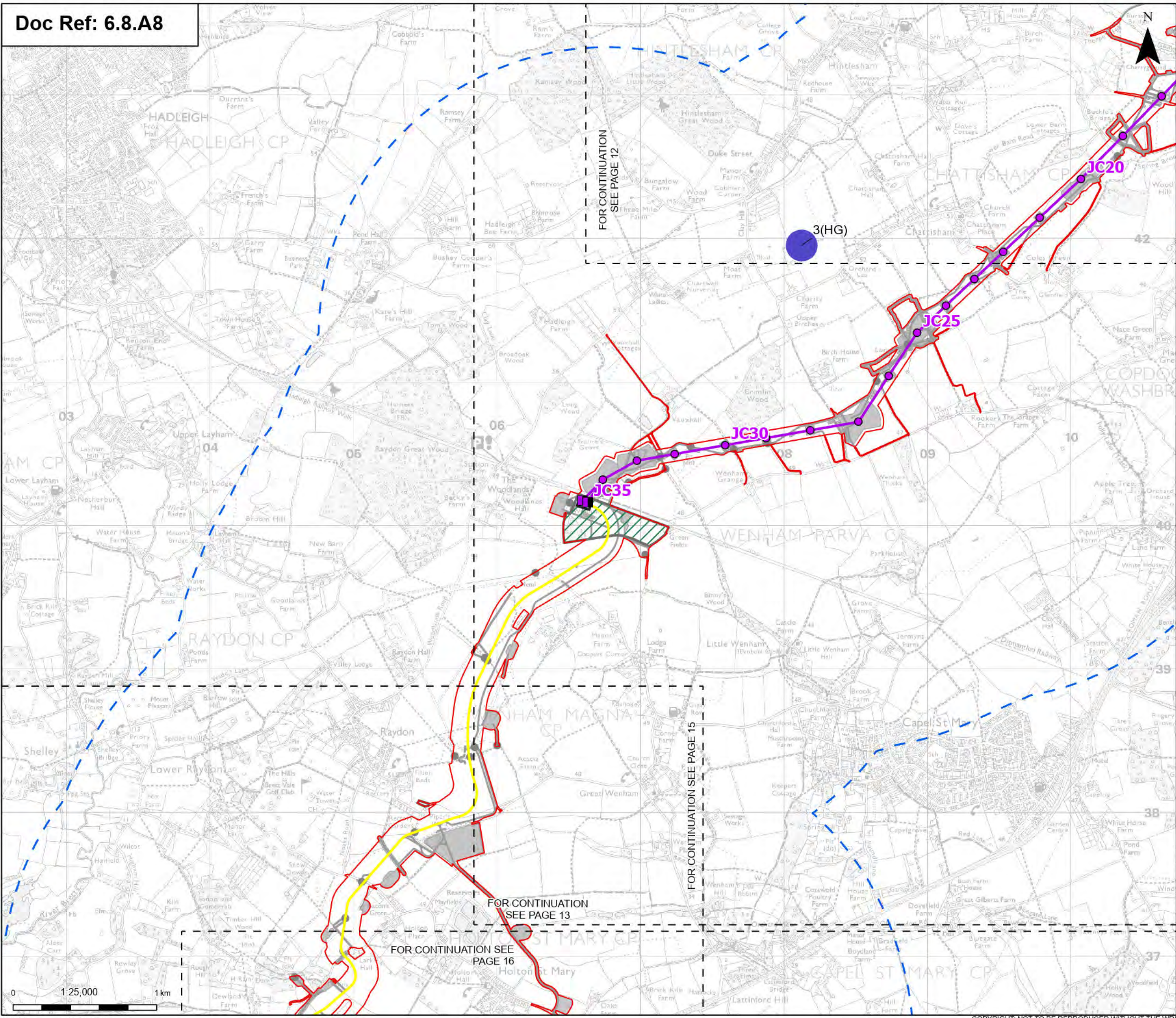
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Figure A8.8.8 - Ecology and Biodiversity
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- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints
2 km Study Area

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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

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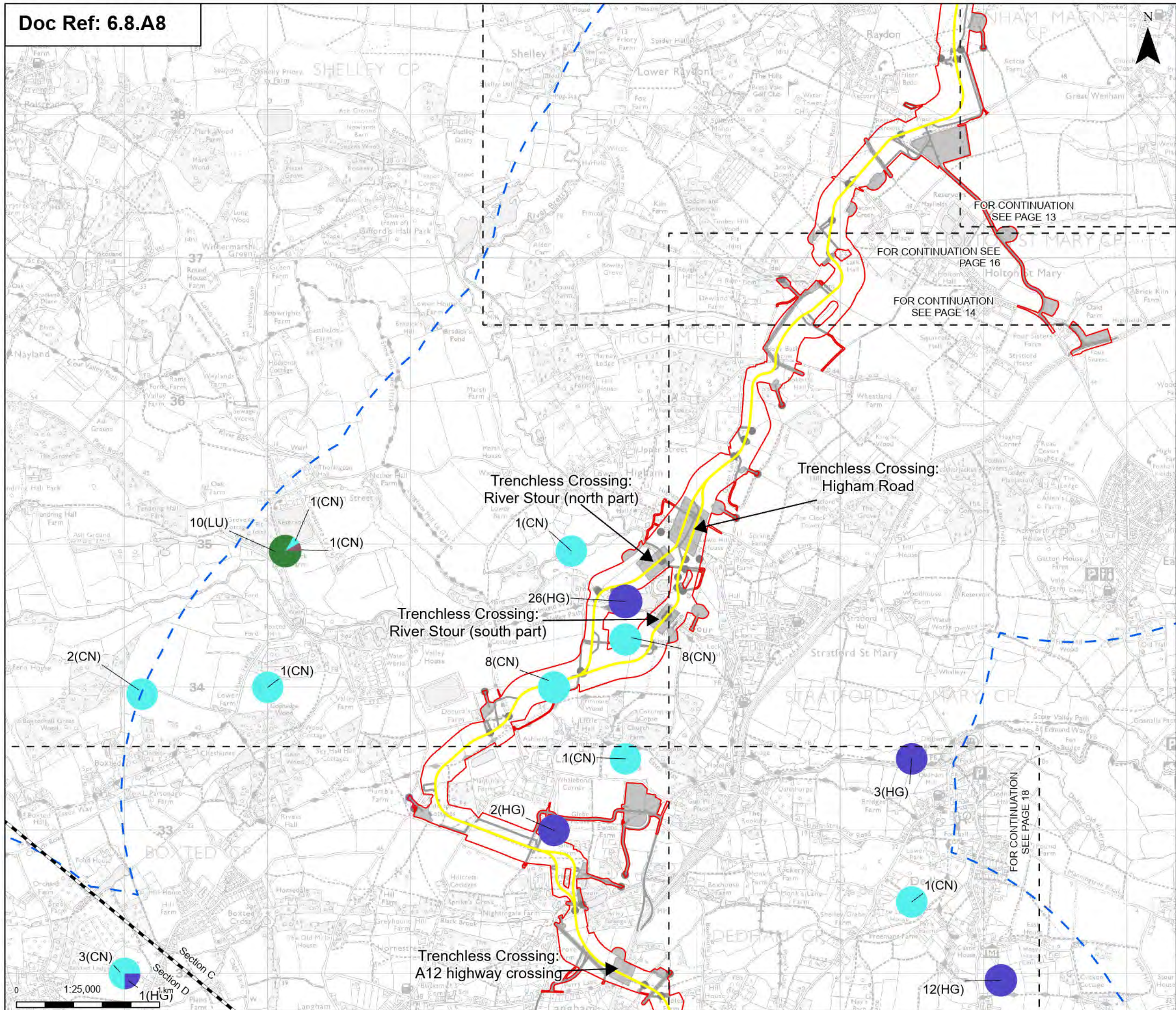
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Discipline specific constraints
 2 km Study Area

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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 2025	FOR DCO APPLICATION	SS	AF	KB
Rev	Date	Description	Drawn	Check	Approv

PROJECT:
 nationalgrid Norwich to Tilbury

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

Title:
 Figure A8.8.8 - Ecology and Biodiversity
 Collision Risk Target Species
 Gulls & Terns (Desk Study Data 2013-2022)
 Page 15 of 31

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	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-00321

Revision:
 A

FOR CONTINUATION
SEE PAGE 14

Trenchless Crossing Higham Road

8(CN)

3(HG)

 $1(\text{CN})$

12(HG)

FOR CONTINUATION
SEE PAGE 18

FOR CONTINUATION
SEE PAGE 17

08

09

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Dec 1998

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10



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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

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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

nationalgrid PROJECT: Norwich to Tilbury

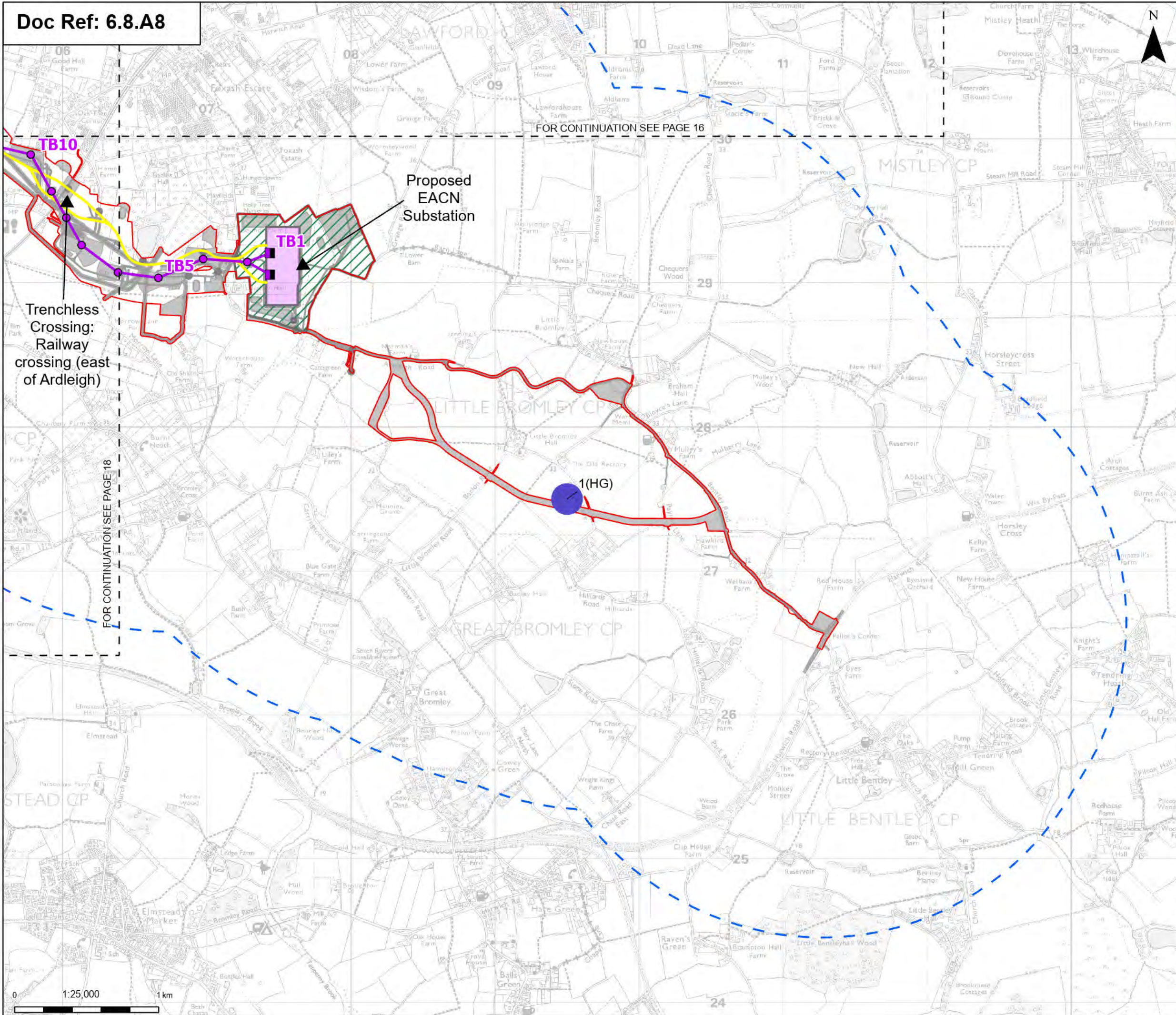
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title: Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
Page 16 of 31

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	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
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Drawing Number:	Revision:
10059280-ARC-EBD-ZZ-DR-ZZ-00321	A



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

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

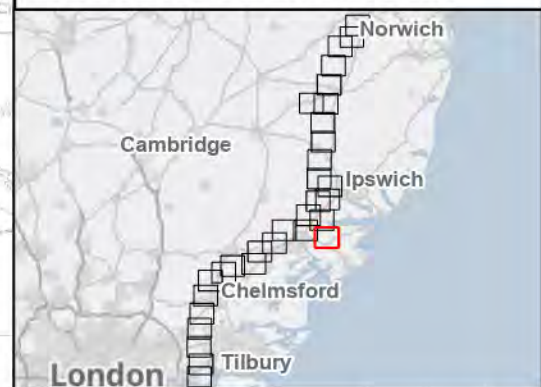
- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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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Rev	Date	Description	Drawn	Check	Approv

nationalgrid PROJECT: Norwich to Tilbury

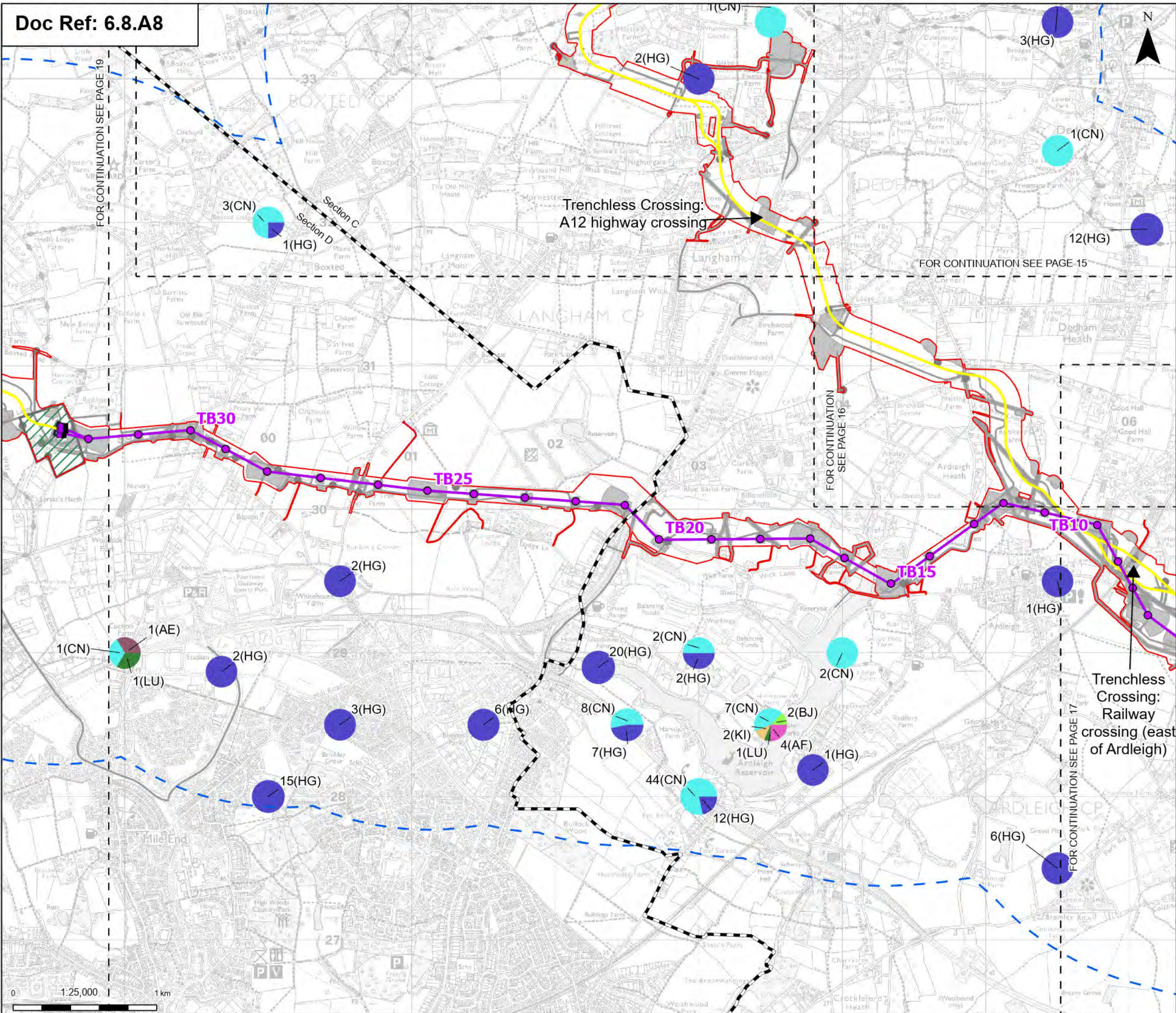
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title: Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	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

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00321	Revision: A
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Order limits
Sheet index cutline
Project section line

Proposed project design details
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

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

Species	Abundance
Arctic tern (AE)	1
Black tern (BJ)	2
Common tern (CN)	44
Herring gull (HG)	12
Kittiwake (KI)	2
Little gull (LU)	1
Little tern (AF)	4
Mediterranean gull (MU)	1

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 2025	FOR DCO APPLICATION	SS	AF	KB

PROJECT: **nationalgrid** Norwich to Tilbury

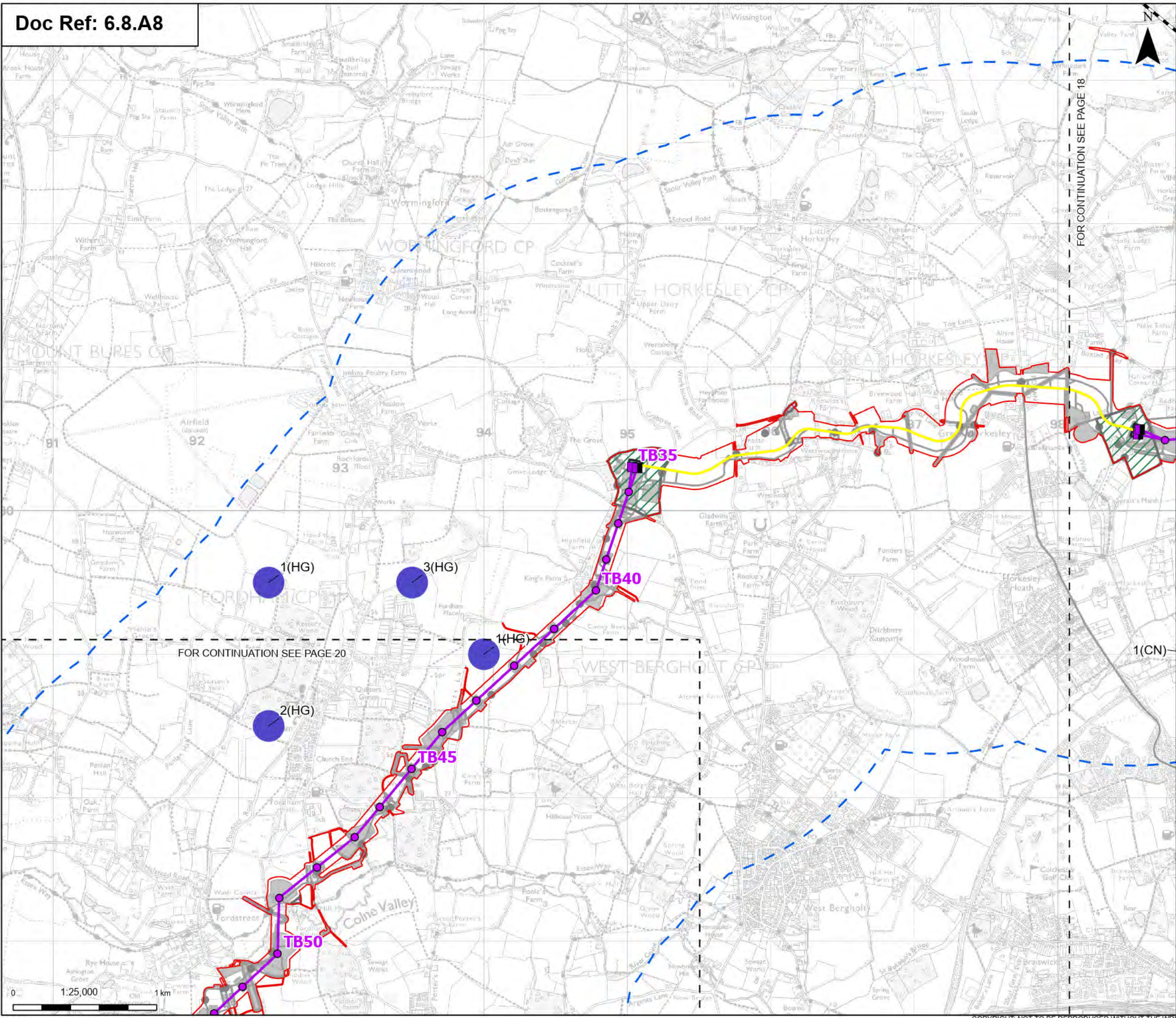
Planning Inspectorate App Number: EN020027 Regulation 5(2)(a)

Title: **Figure A8.8.8 - Ecology and Biodiversity Collision Risk Target Species Gulls & Terns (Desk Study Data 2013-2022) Page 18 of 31**

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
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-00321** Revision: **A**



Order limits
Sheet index outline
Project section line

Proposed project design details

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

Discipline specific constraints
2 km Study Area

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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 2025	FOR DCO APPLICATION	SS	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

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

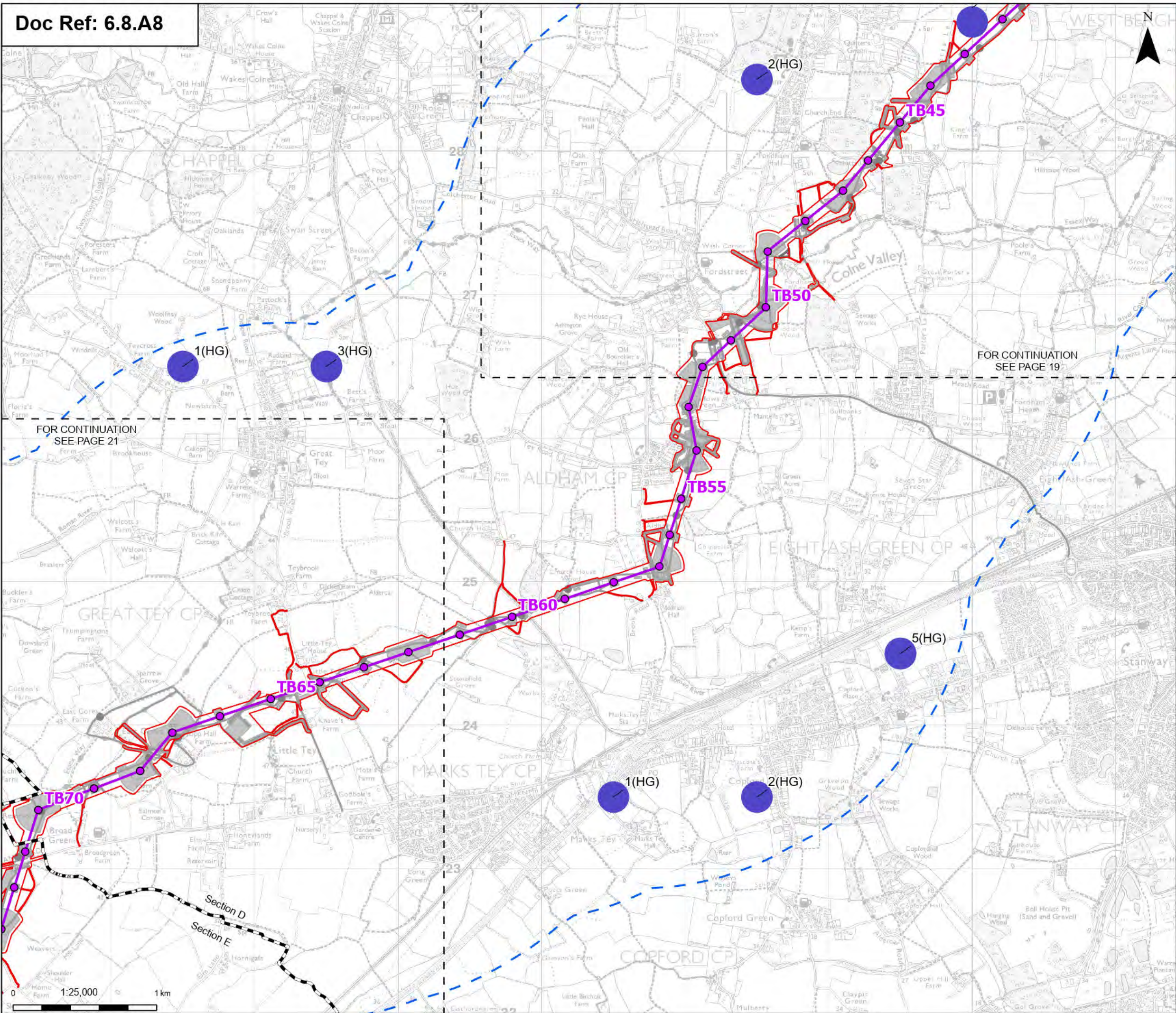
Title:
Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
Page 19 of 31

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
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Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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10059280-ARC-EBD-ZZ-DR-ZZ-00321

Revision:
A



Order limits
Sheet index outline
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

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB

PROJECT: **Norwich to Tilbury**

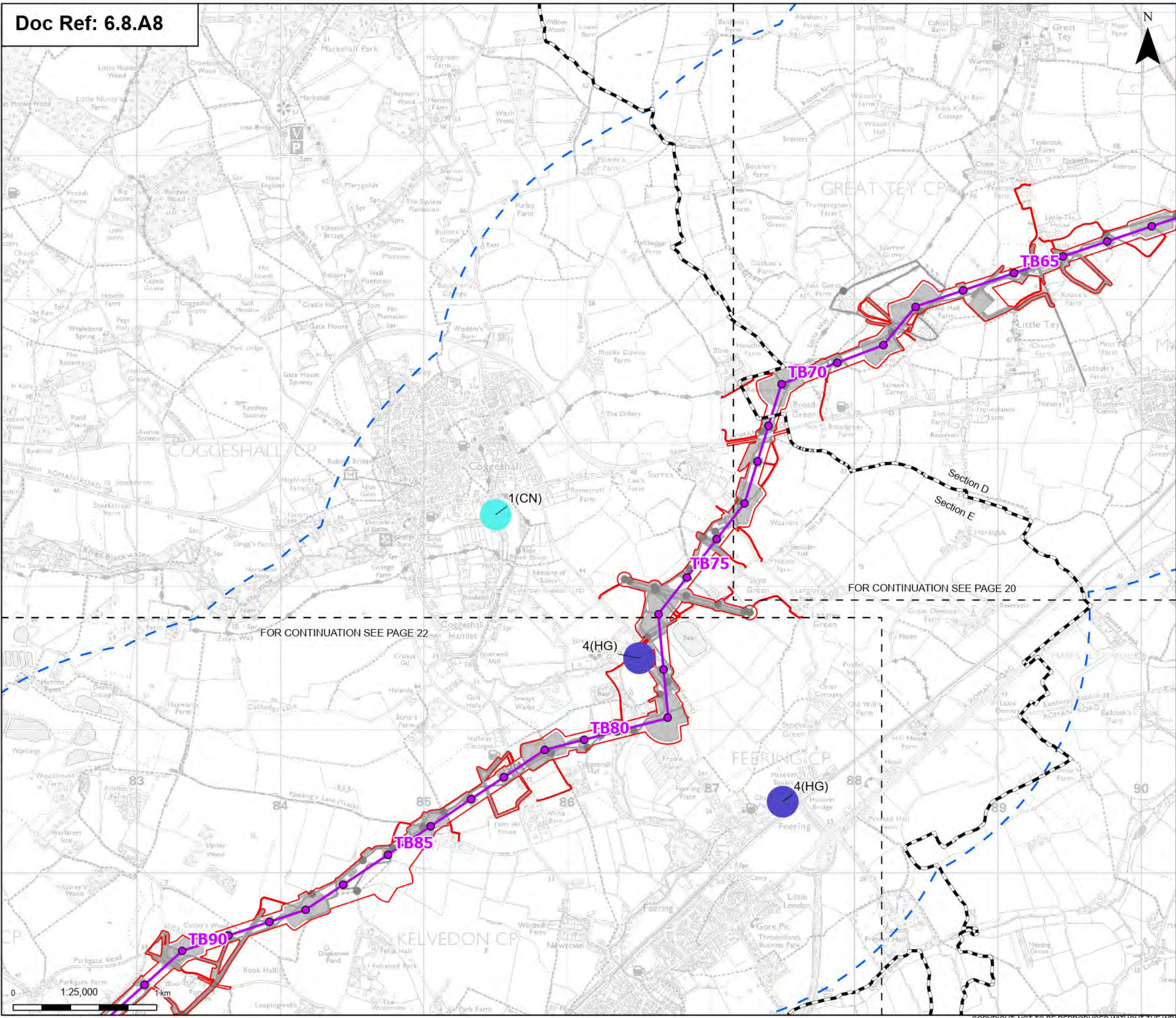
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
Figure A8.8.8 - Ecology and Biodiversity Collision Risk Target Species Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00321
Revision: A



Order limits

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Project section line

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

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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

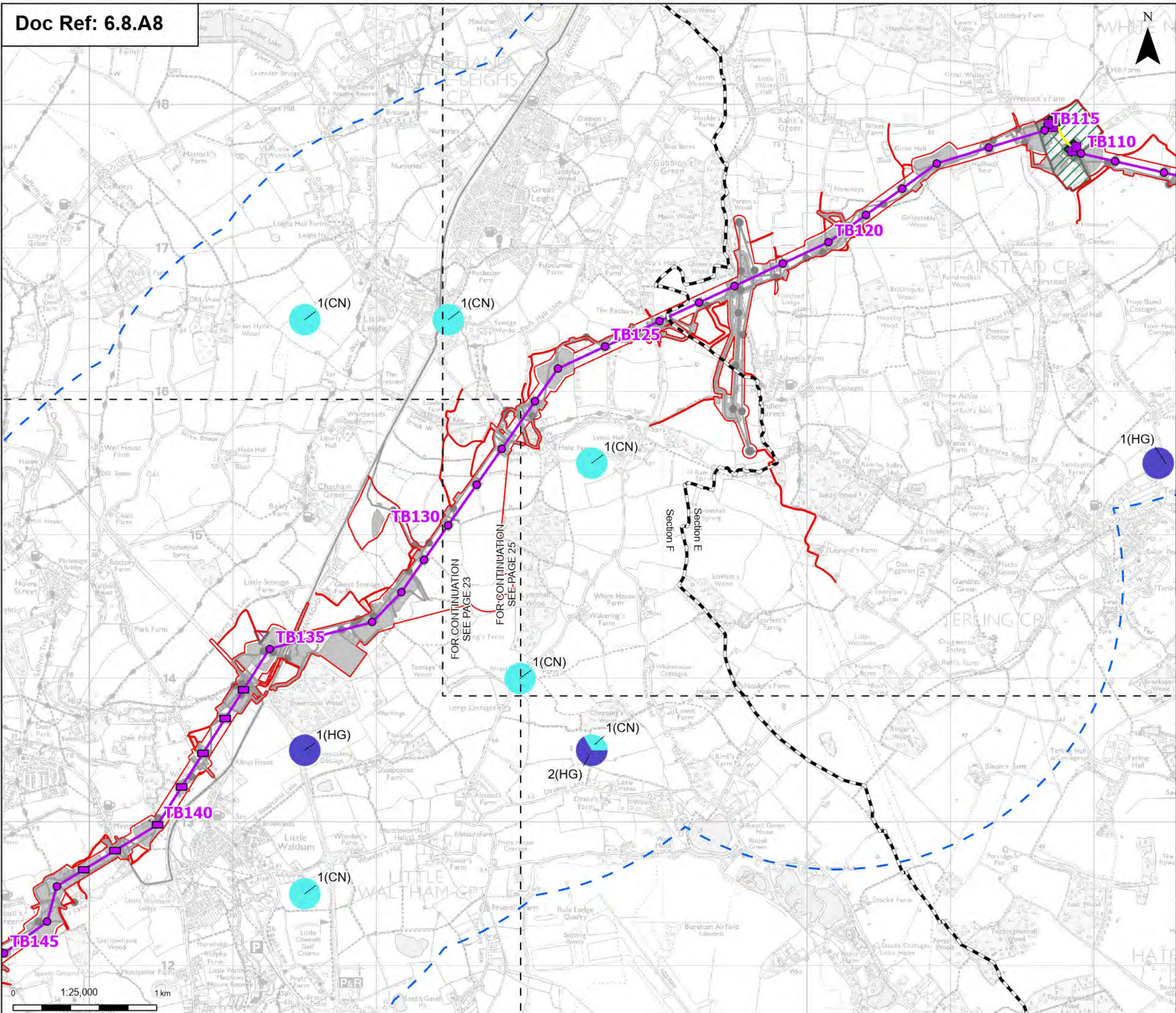
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
**Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
Page 21 of 31**

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
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Suitability Description:
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Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00321	Revision: A
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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
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
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- Little tern (AF)
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PROJECT: **Norwich to Tilbury**

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

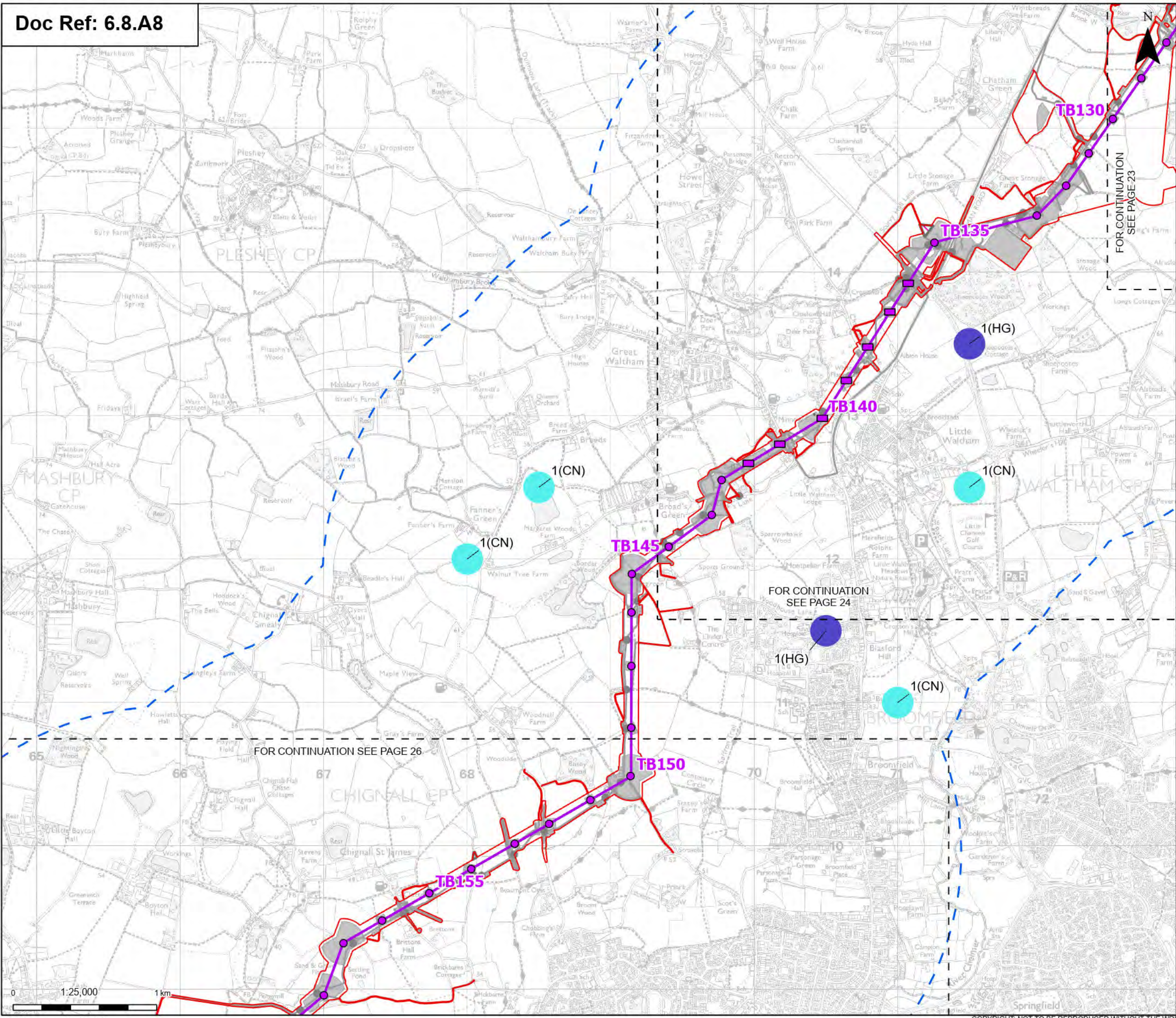
Title:
**Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00321

Revision:
A



Order limits
Sheet index cutline

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

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
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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)

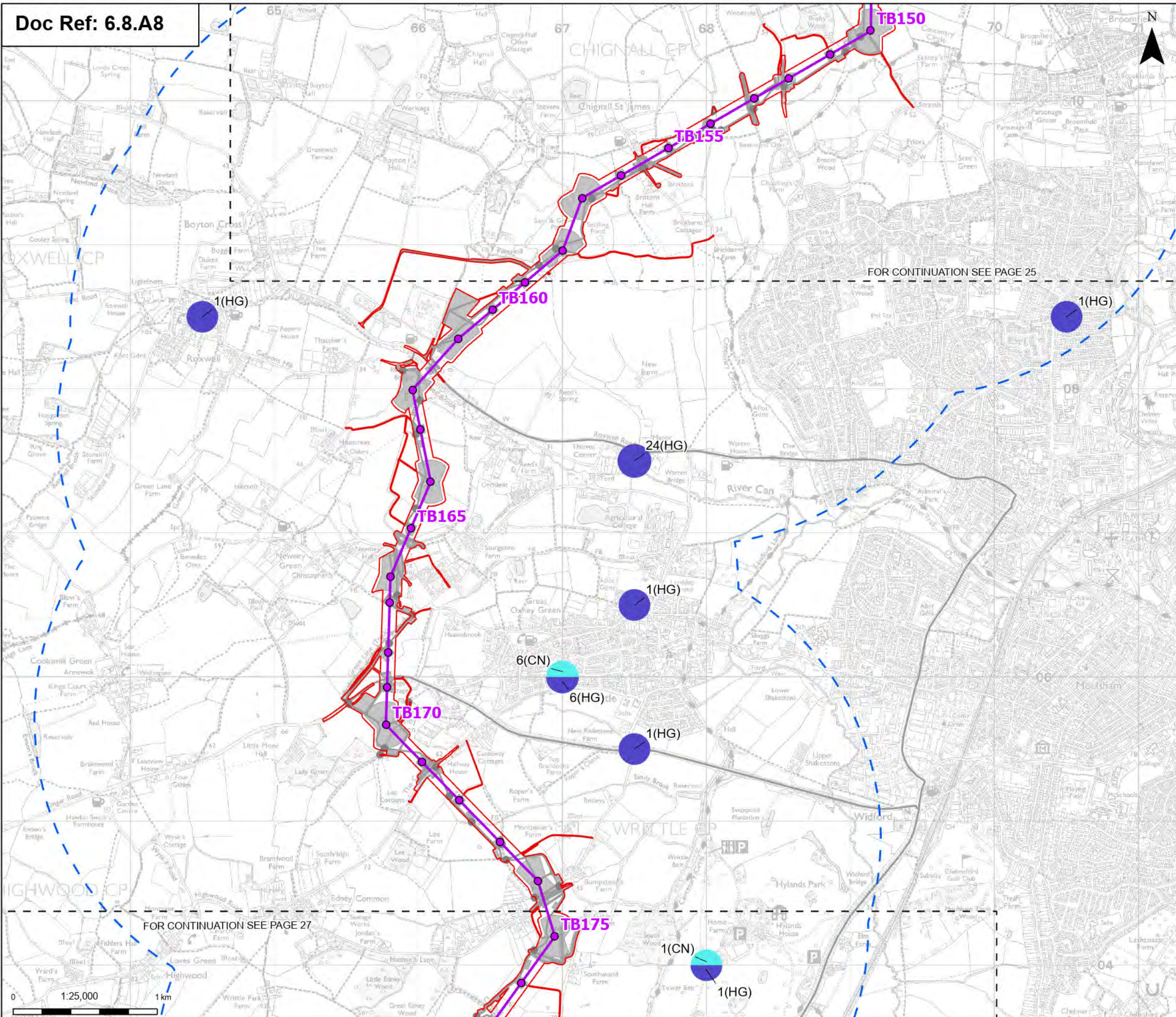
Title:
Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
Page 25 of 31

Designed	R. Anderton	Date	21 Aug 25
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Suitability Description:
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Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00321

Revision:
A



Order limits

Sheet index outline

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

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

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PROJECT:
nationalgrid Norwich to Tilbury

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

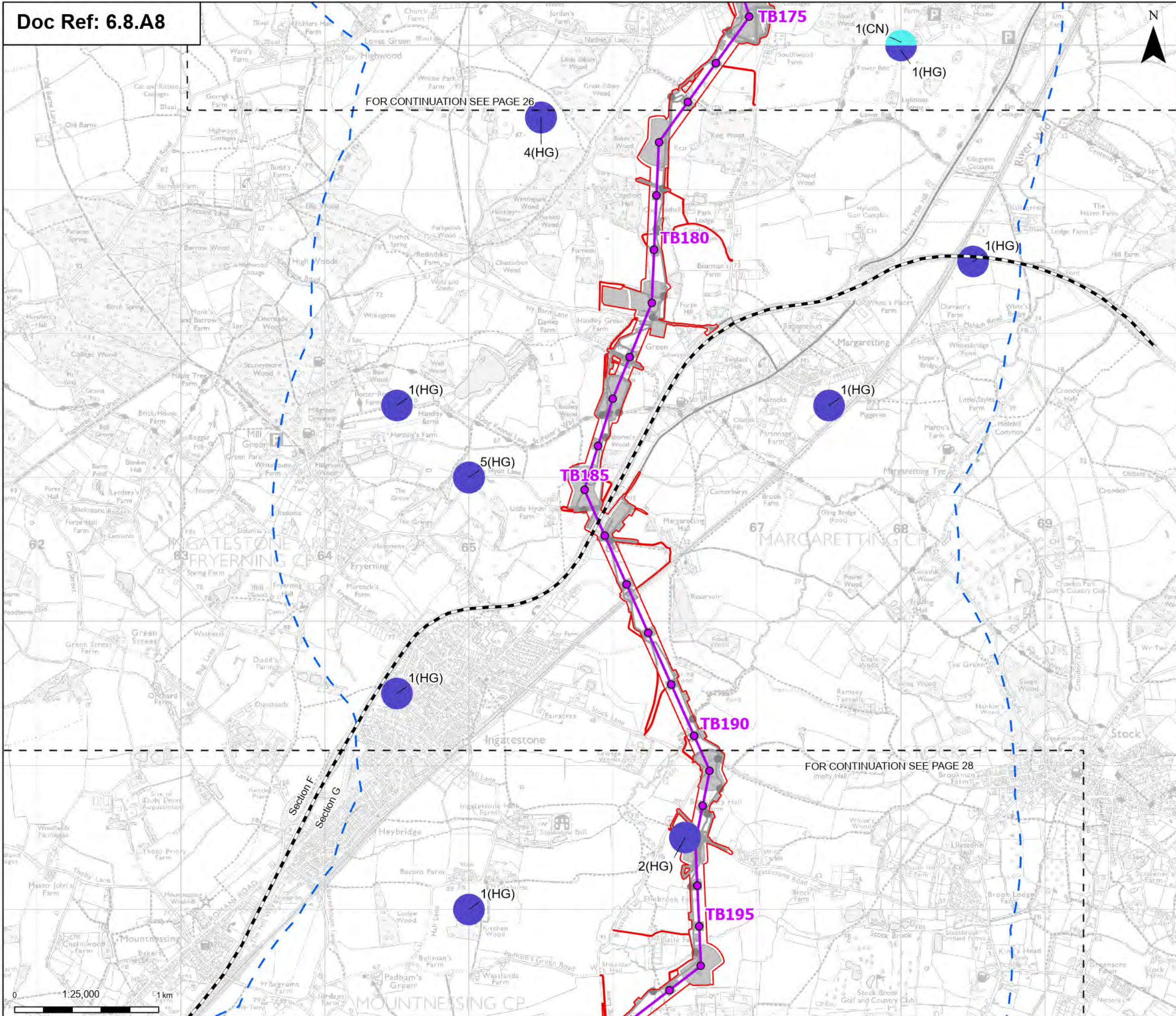
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Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
Page 26 of 31

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

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Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00321	Revision: A
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FOR CONTINUATION SEE PAGE 28

- Legend:**

 - 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

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

 - Arctic tern (AE)
 - Black tern (BJ)
 - Common tern (CN)
 - Herring gull (HG)
 - Kittiwake (KI)
 - Little gull (LU)
 - Little tern (AF)
 - Mediterranean gull (MU)

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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nationalgrid PROJECT:
Norwich to
Tilbury

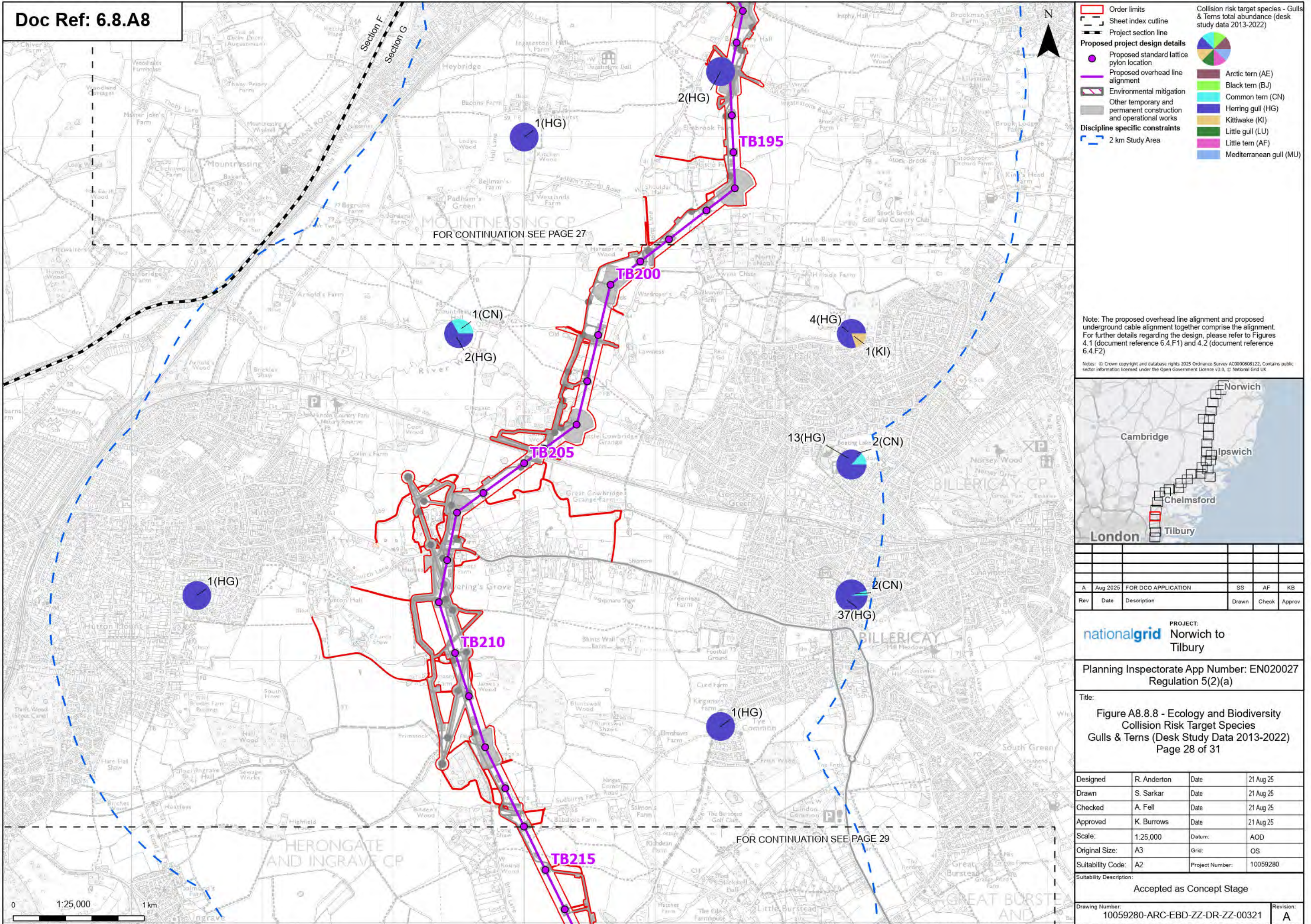
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title: Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

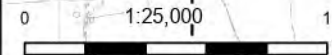
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Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00321	Revision: A
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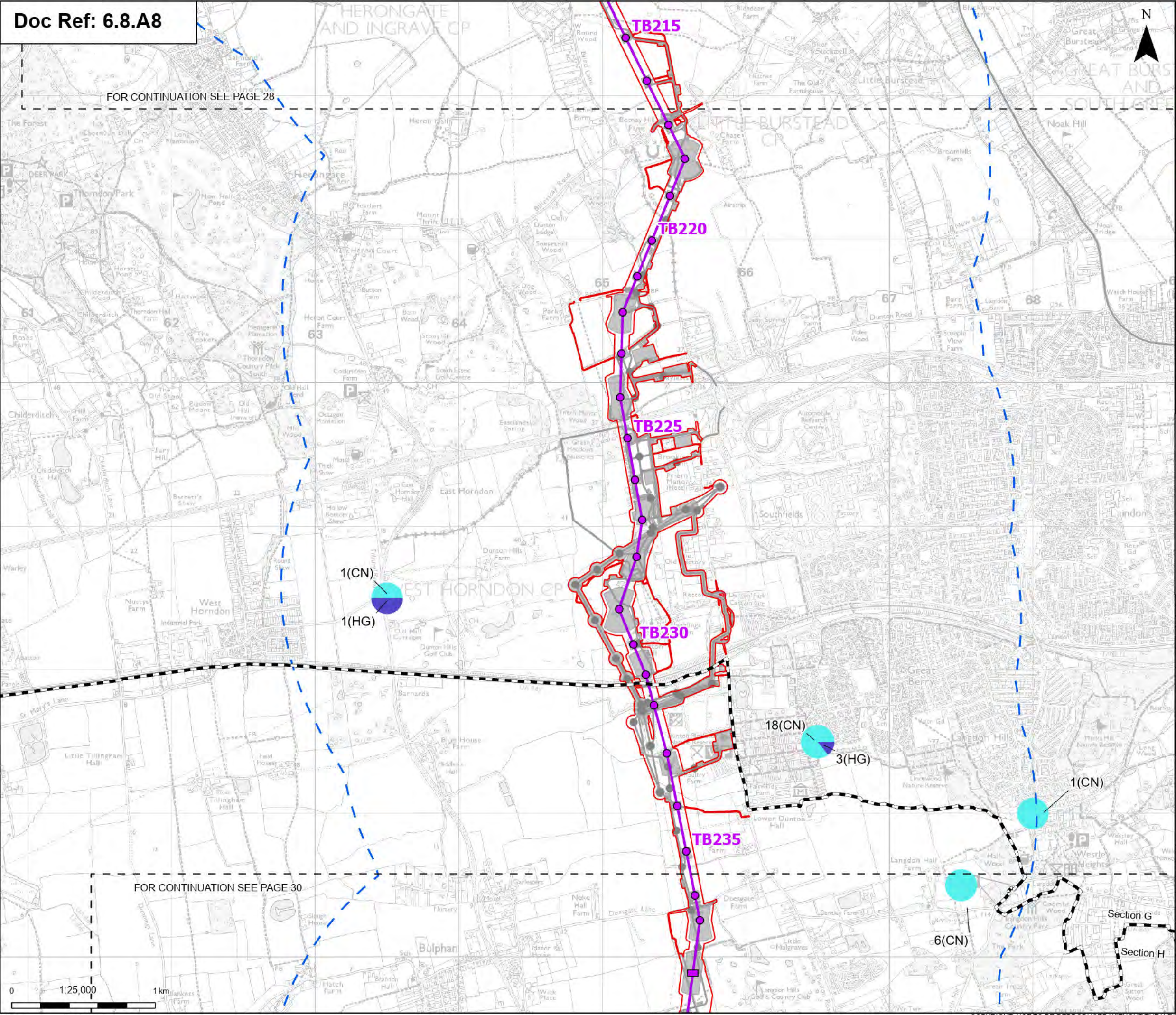


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Order limits

Sheet index outline

Project section line

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

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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)

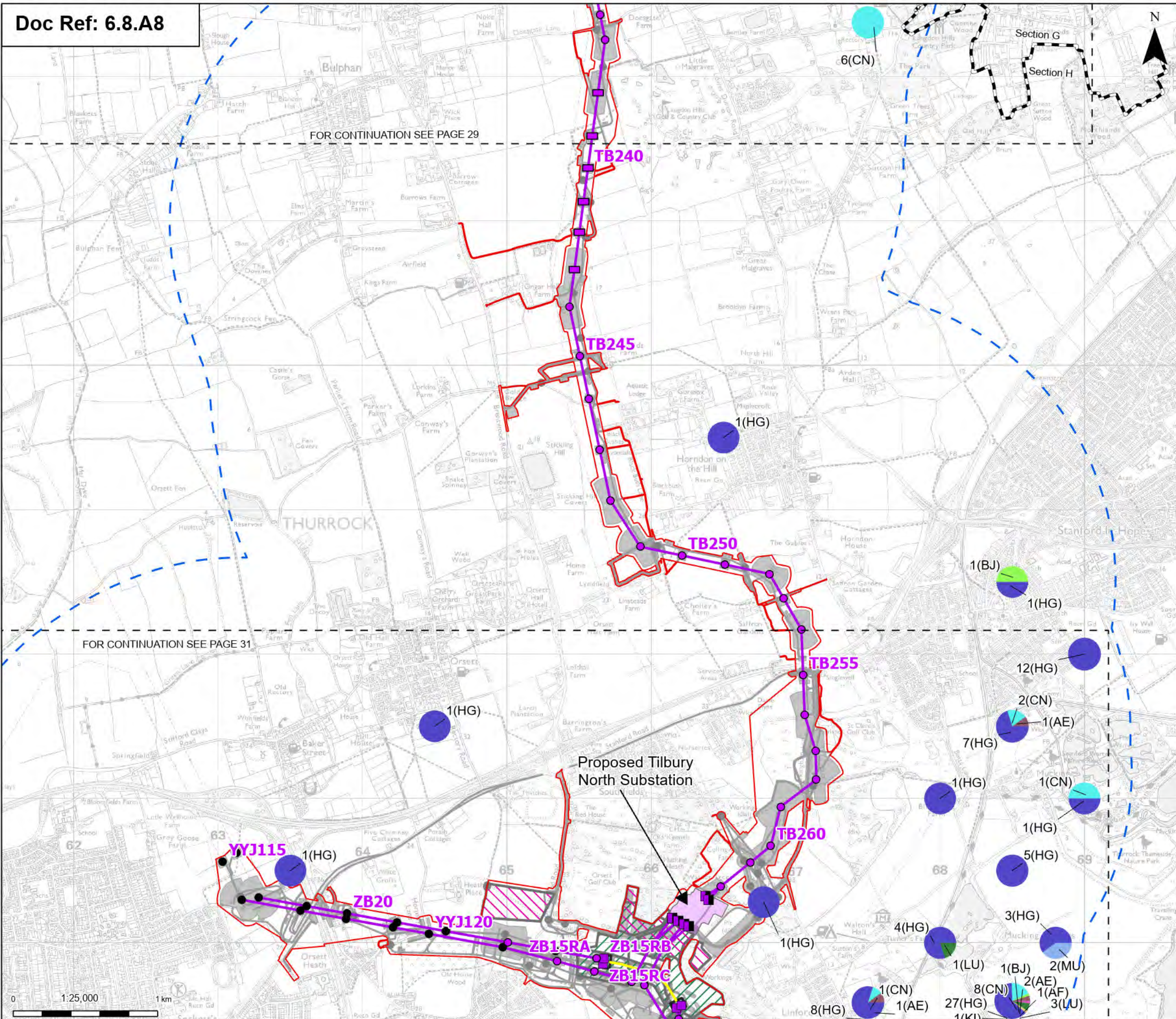
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Figure A8.8.8 - Ecology and Biodiversity Collision Risk Target Species Gulls & Terns (Desk Study Data 2013-2022)

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Designed	R. Anderton	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280
Suitability Description:			
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Order limits
Sheet index outline
Project section line

Proposed project design details

- Proposed full line tension gantry
- Proposed low duty gantry
- Proposed low height pylon location
- 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

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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**

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

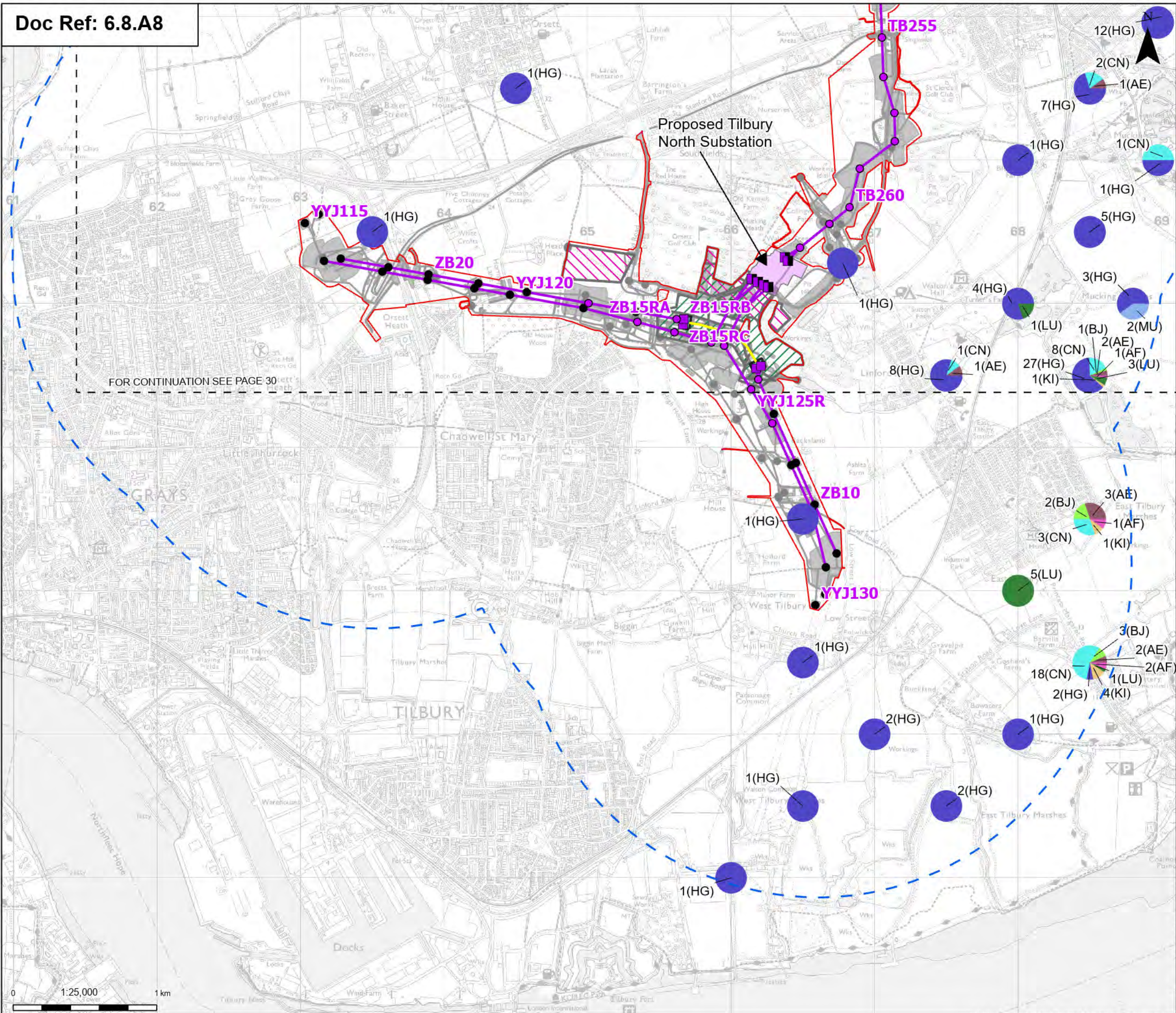
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**Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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Approved	K. Burrows	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00321

Revision:
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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

Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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**

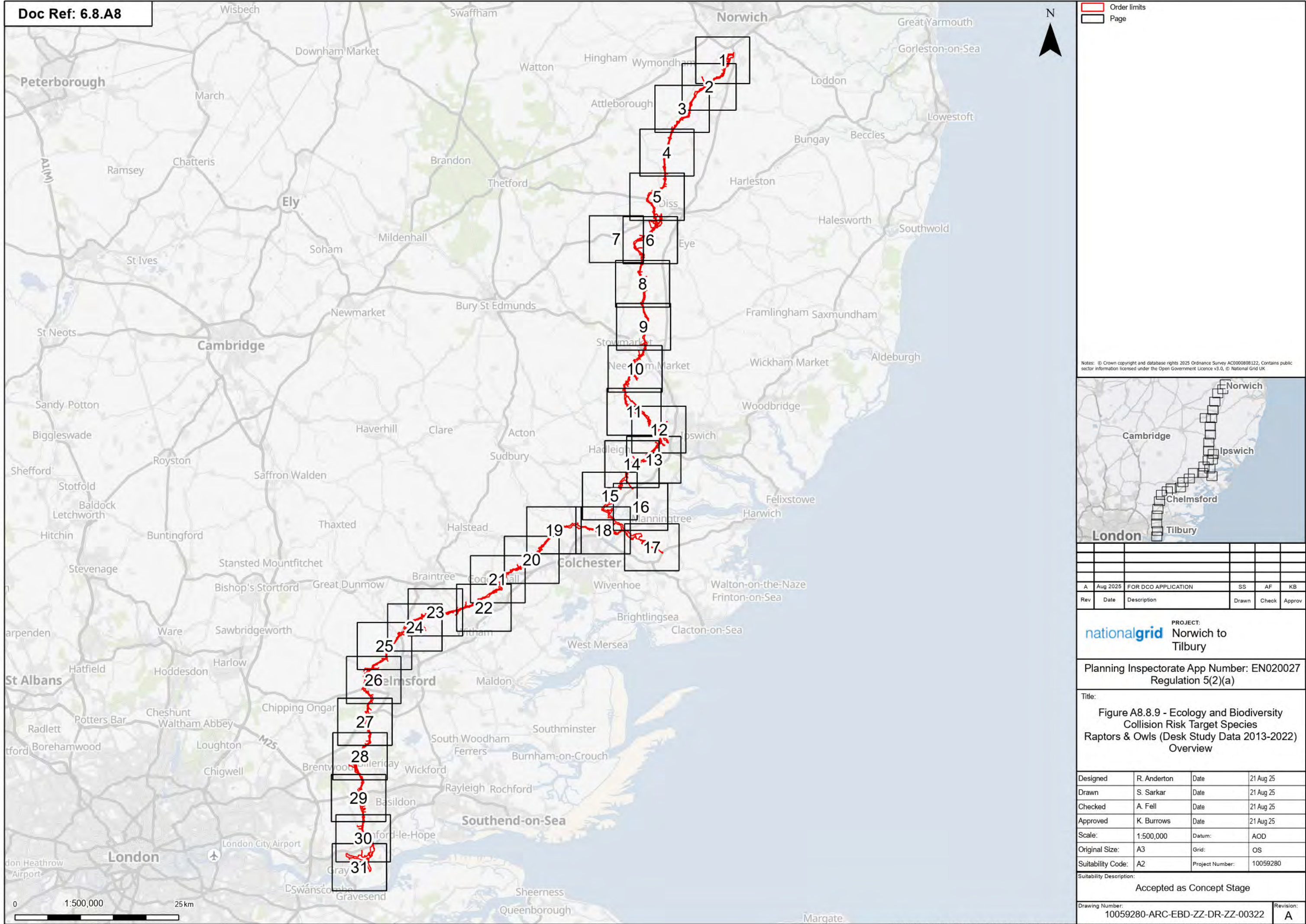
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Regulation 5(2)(a)

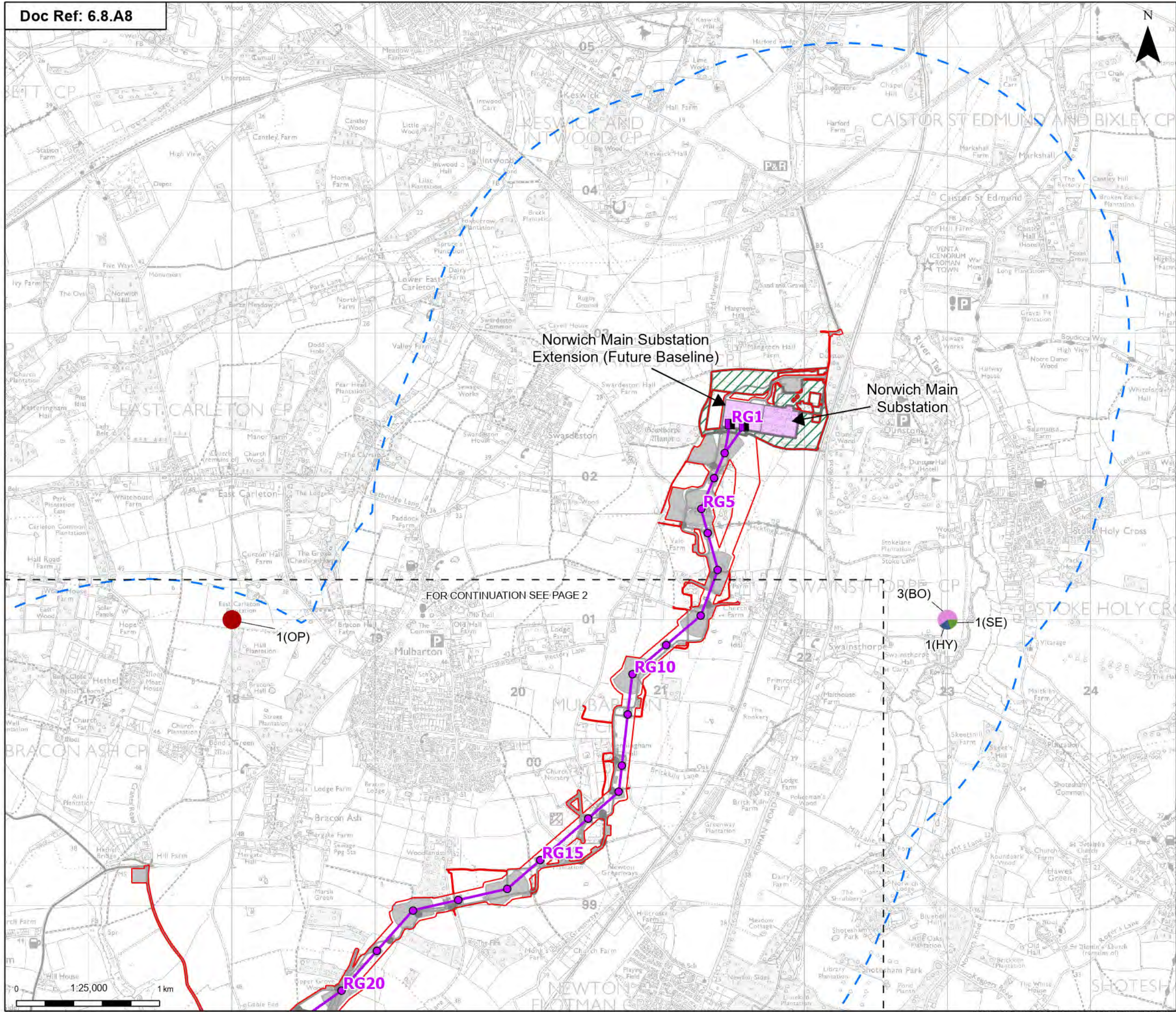
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Figure A8.8.8 - Ecology and Biodiversity Collision Risk Target Species Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00321
Revision: A





Order limits
Sheet index outline

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

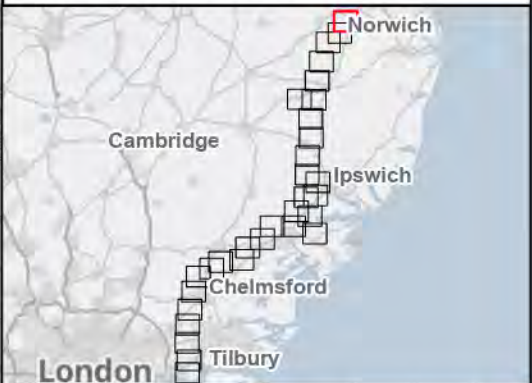
Discipline specific constraints
2 km Study Area

Collision risk target species - Raptors & Owls total abundance (desk study data 2013-2022)

- Barn owl (BO)
- Black kite (KB)
- Goshawk (GI)
- Hen harrier (HH)
- Hobby (HY)
- Honey buzzard (HZ)
- Marsh harrier (MR)
- Merlin (ML)
- Montagu's harrier (MO)
- Osprey (OP)
- Peregrine (PE)
- Red Kite (KT)
- Short-eared owl (SE)
- Snowy owl (SO)
- White-tailed eagle (WE)

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**

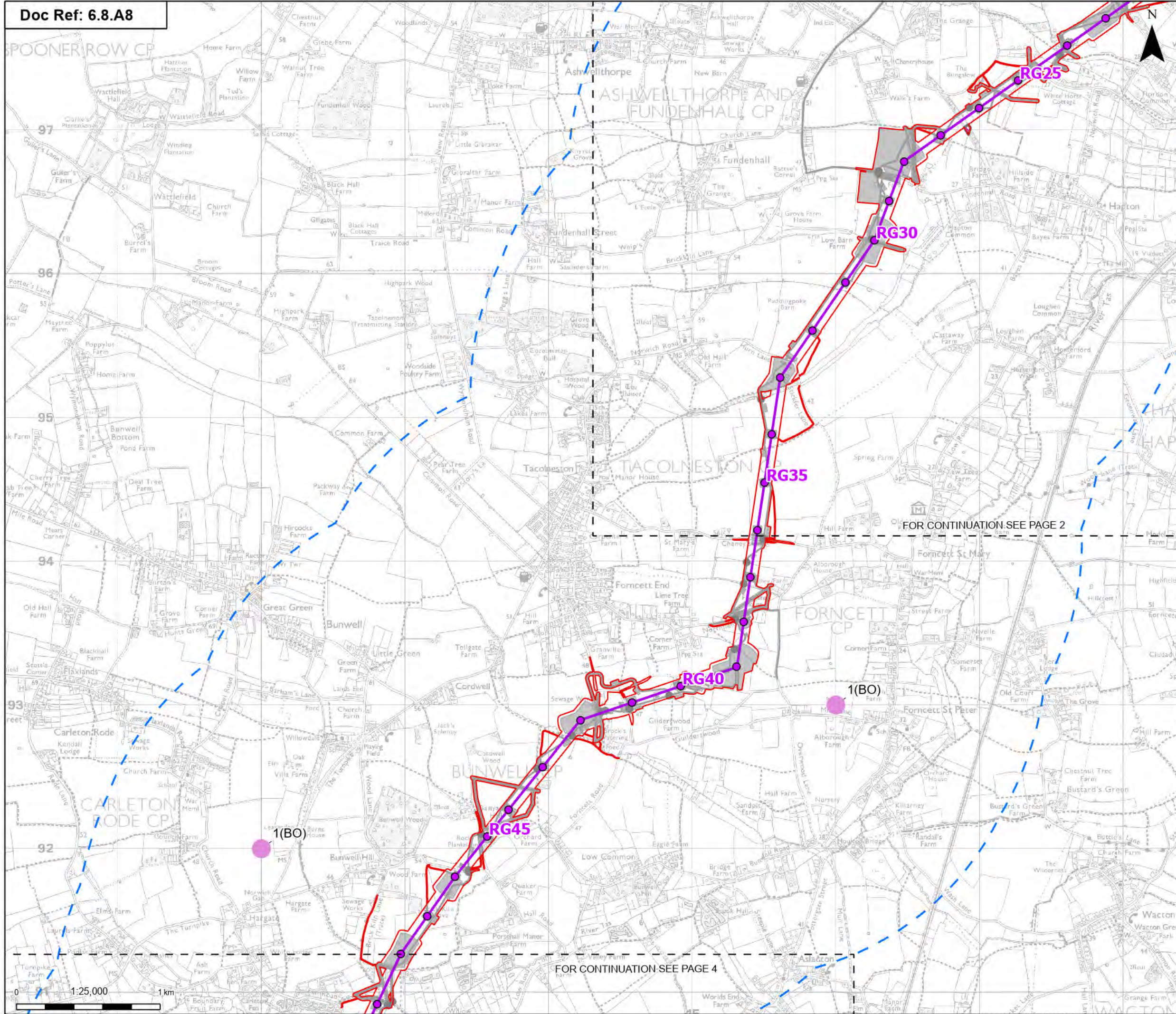
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Regulation 5(2)(a)

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**Figure A8.8.9 - Ecology and Biodiversity
Collision Risk Target Species
Raptors & Owls (Desk Study Data 2013-2022)
Page 1 of 31**

Designed	R. Anderton	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

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Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00322
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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

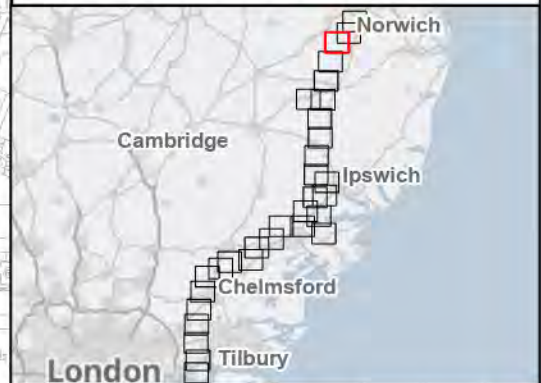
- 2 km Study Area

Collision risk target species - Raptors & Owls total abundance (desk study data 2013-2022)

- Barn owl (BO)
- Black kite (KB)
- Goshawk (GI)
- Hen harrier (HH)
- Hobby (HY)
- Honey buzzard (HZ)
- Marsh harrier (MR)
- Merlin (ML)
- Montagu's harrier (MO)
- Osprey (OP)
- Peregrine (PE)
- Red Kite (KT)
- Short-eared owl (SE)
- Snowy owl (SO)
- White-tailed eagle (WE)

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PROJECT:
nationalgrid Norwich to Tilbury

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

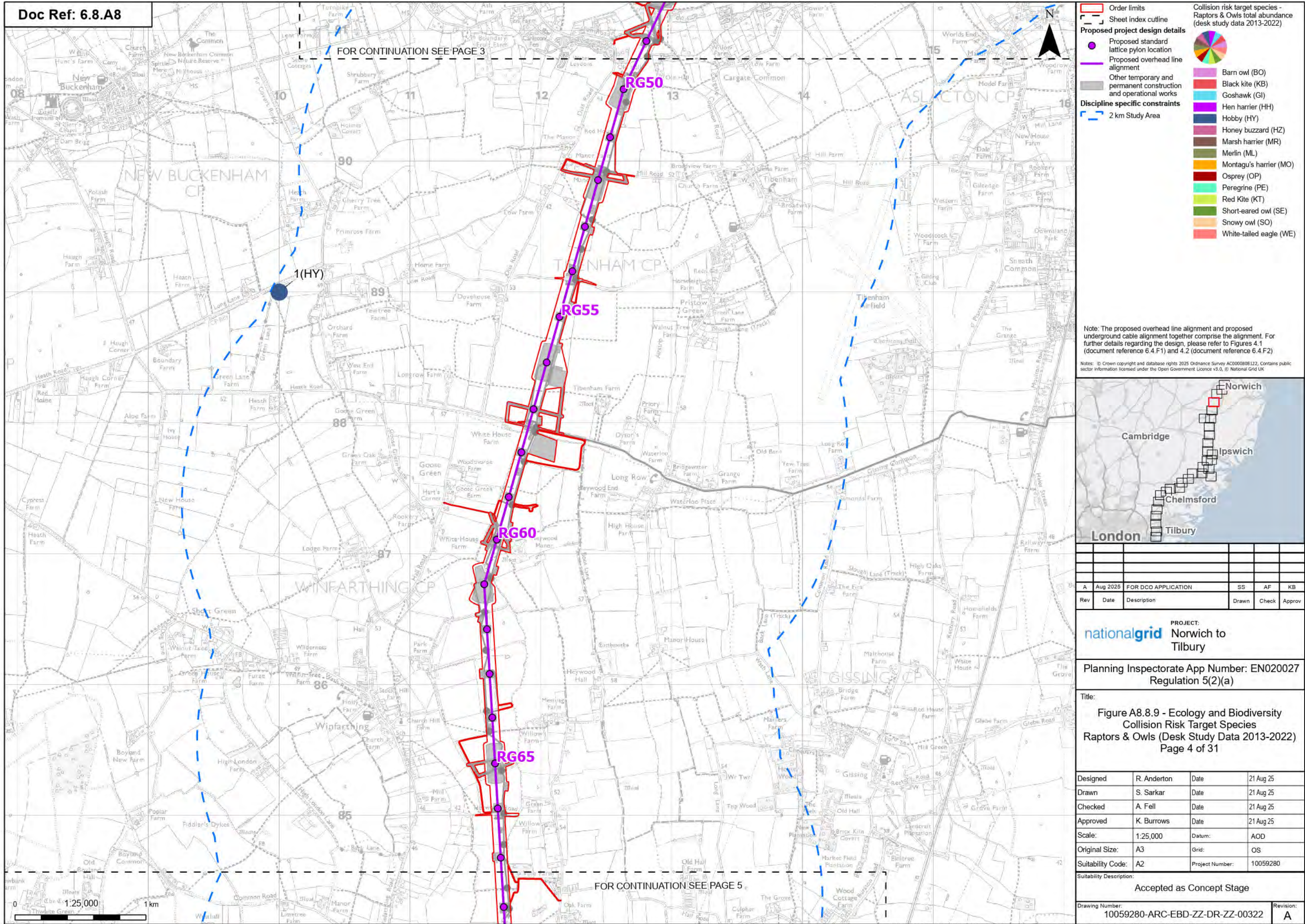
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**Figure A8.8.9 - Ecology and Biodiversity
Collision Risk Target Species
Raptors & Owls (Desk Study Data 2013-2022)
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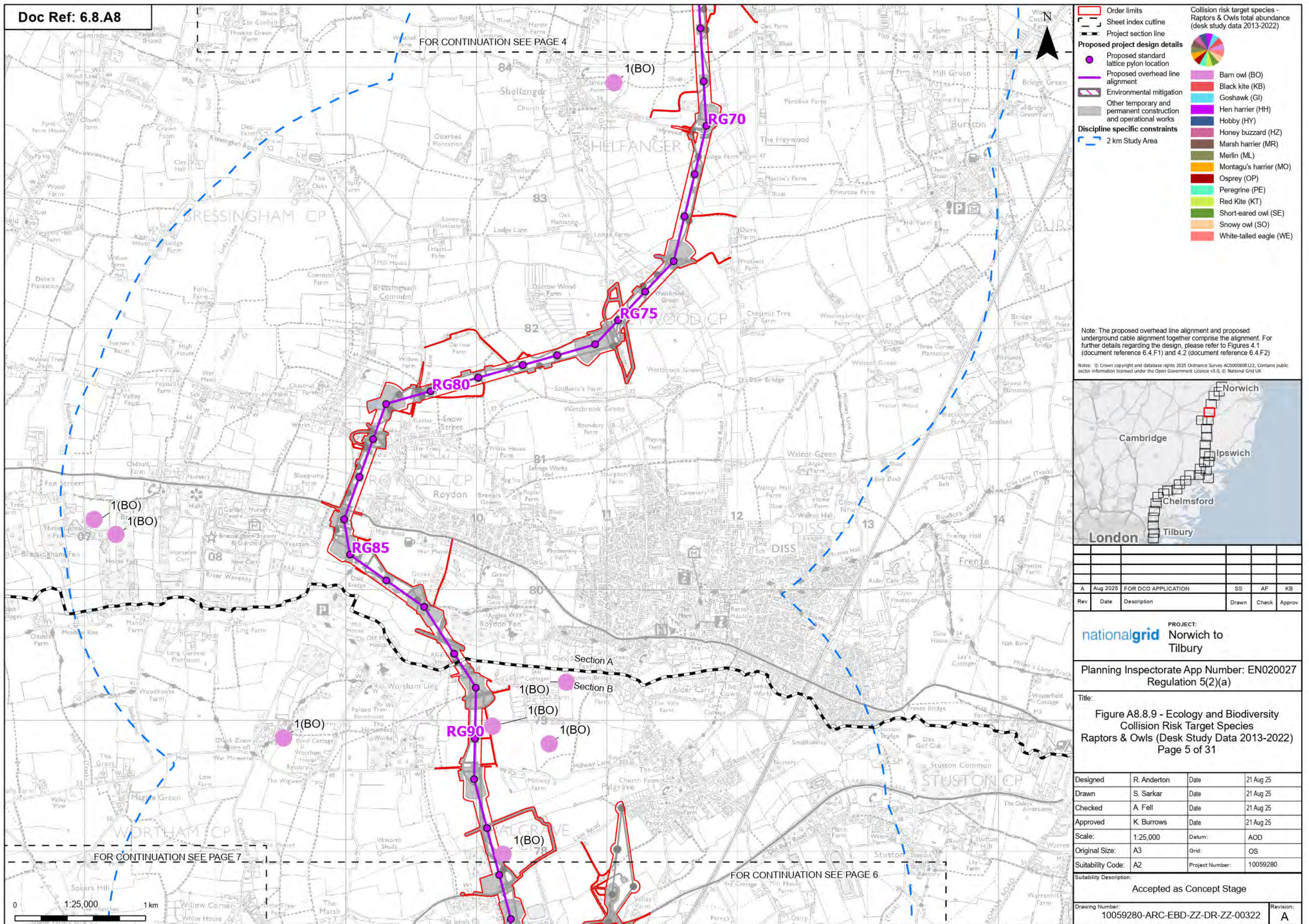
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Drawn	S. Sarkar	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

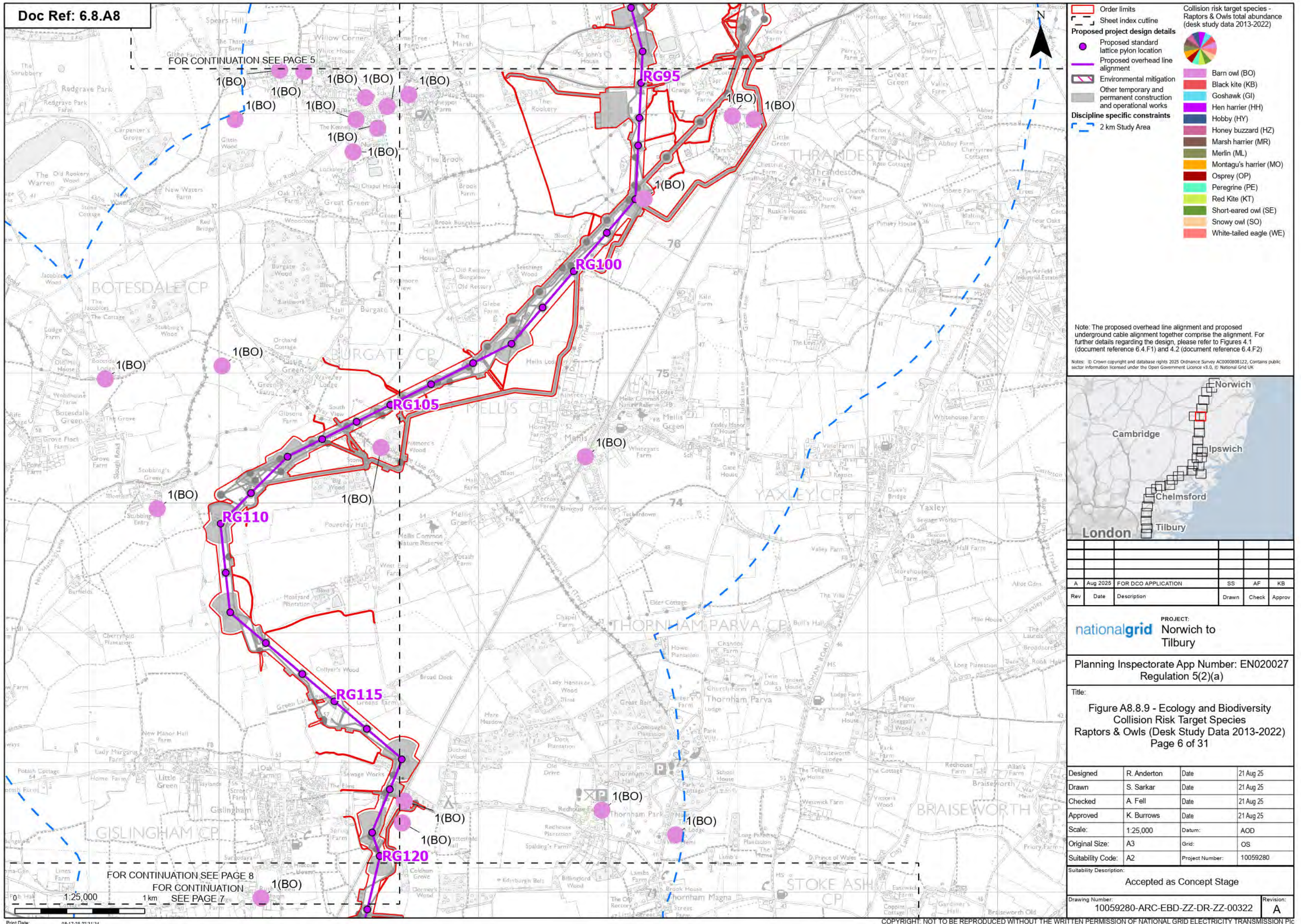
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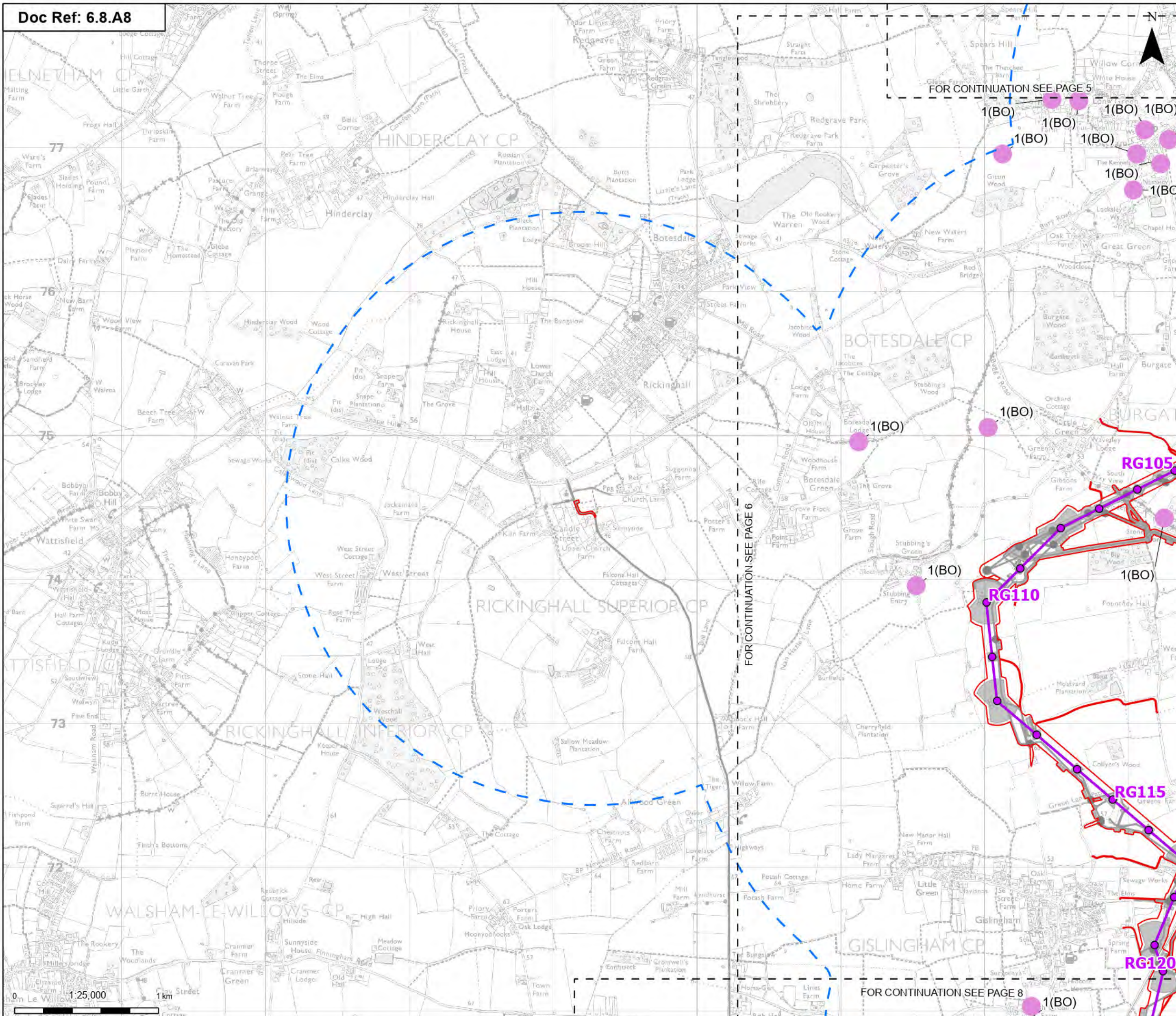
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10059280-ARC-EBD-ZZ-DR-ZZ-00322

Revision:
A









Order limits
Sheet index outline

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

Collision risk target species - Raptors & Owls total abundance (desk study data 2013-2022)

- Barn owl (BO)
- Black kite (KB)
- Goshawk (GI)
- Hen harrier (HH)
- Hobby (HY)
- Honey buzzard (HZ)
- Marsh harrier (MR)
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PROJECT:
nationalgrid Norwich to Tilbury

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

Title:
**Figure A8.8.9 - Ecology and Biodiversity
Collision Risk Target Species
Raptors & Owls (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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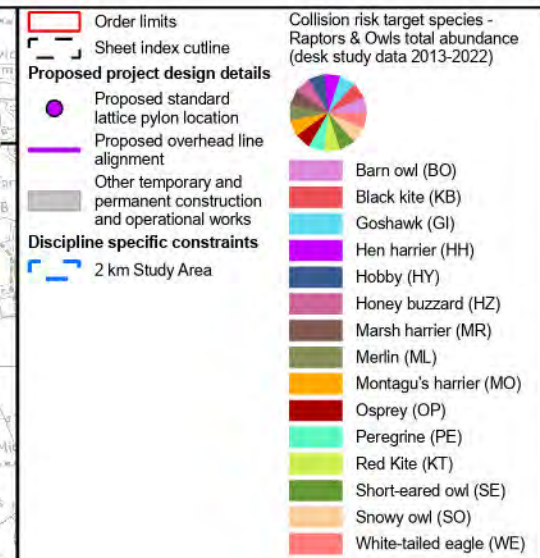
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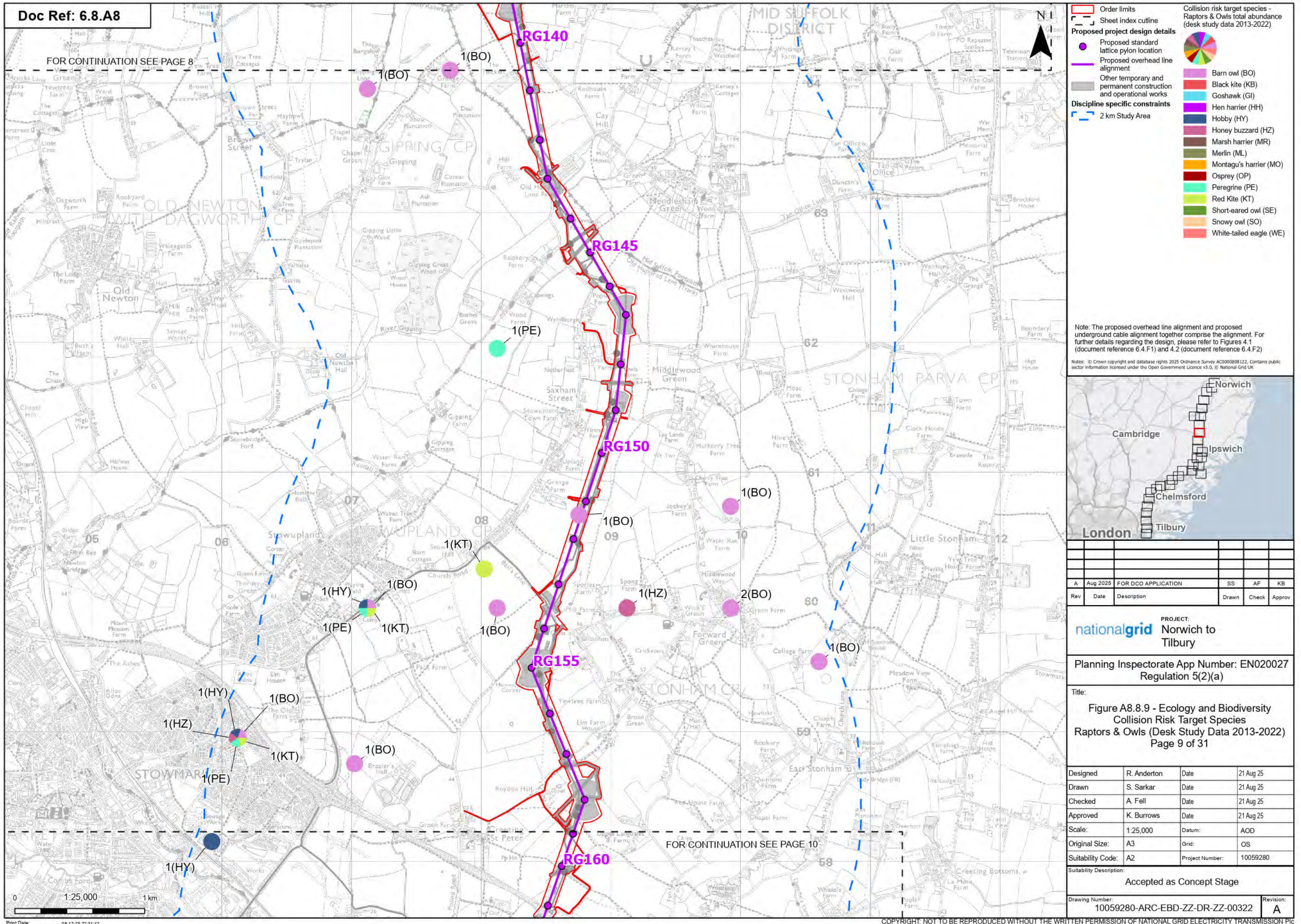
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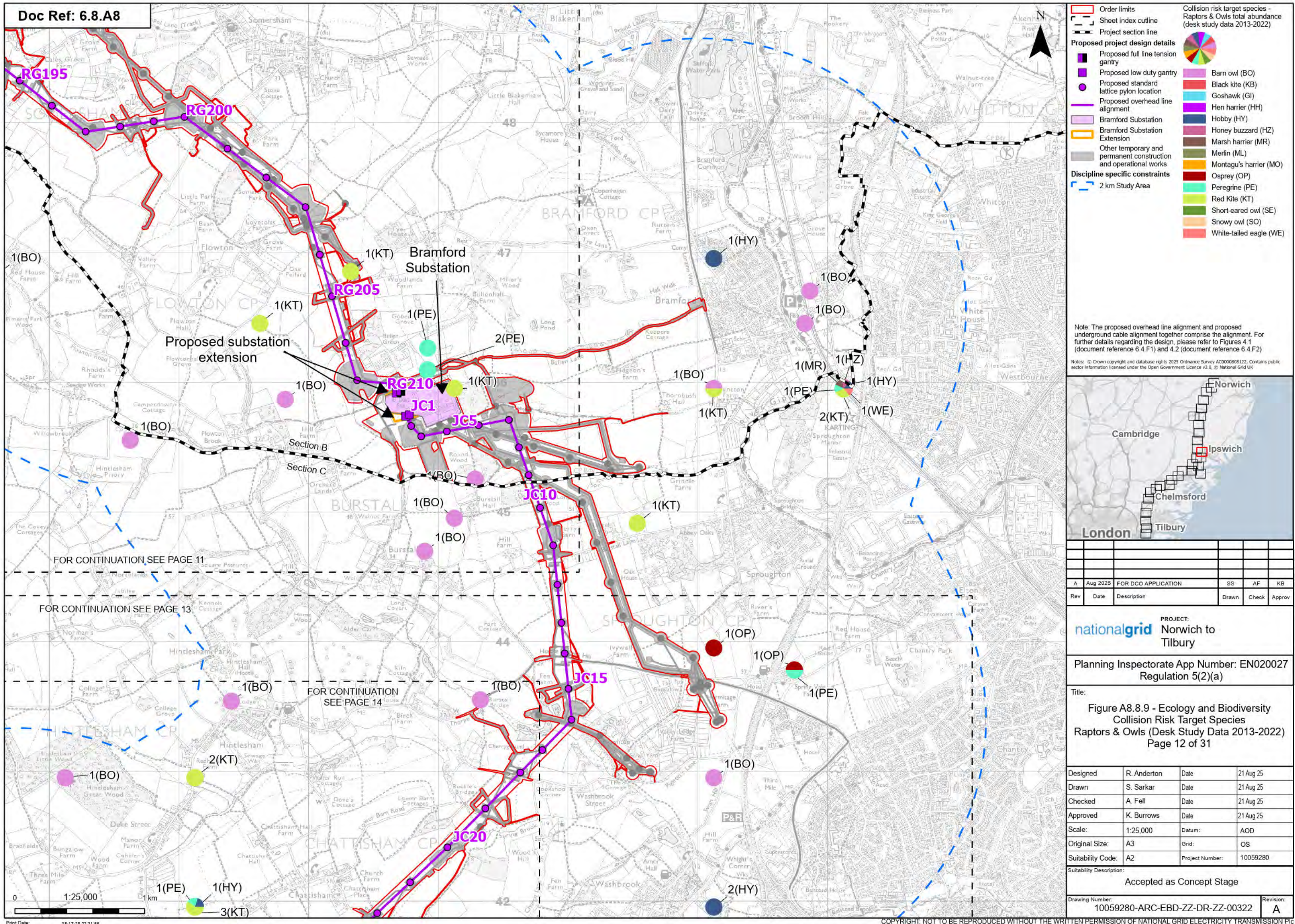
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Collision Risk Target Species
Raptors & Owls (Desk Study Data 2013-2022)
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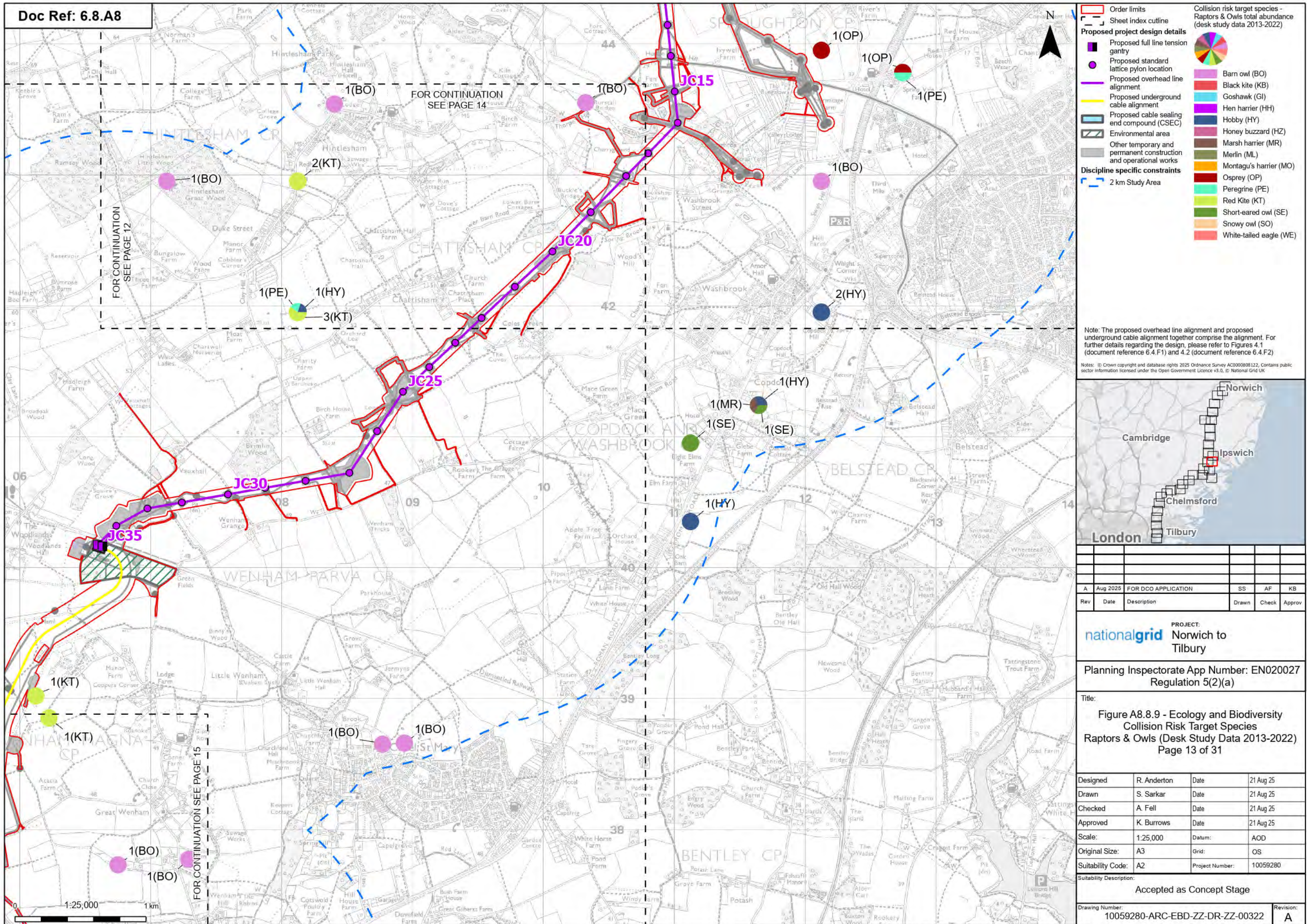
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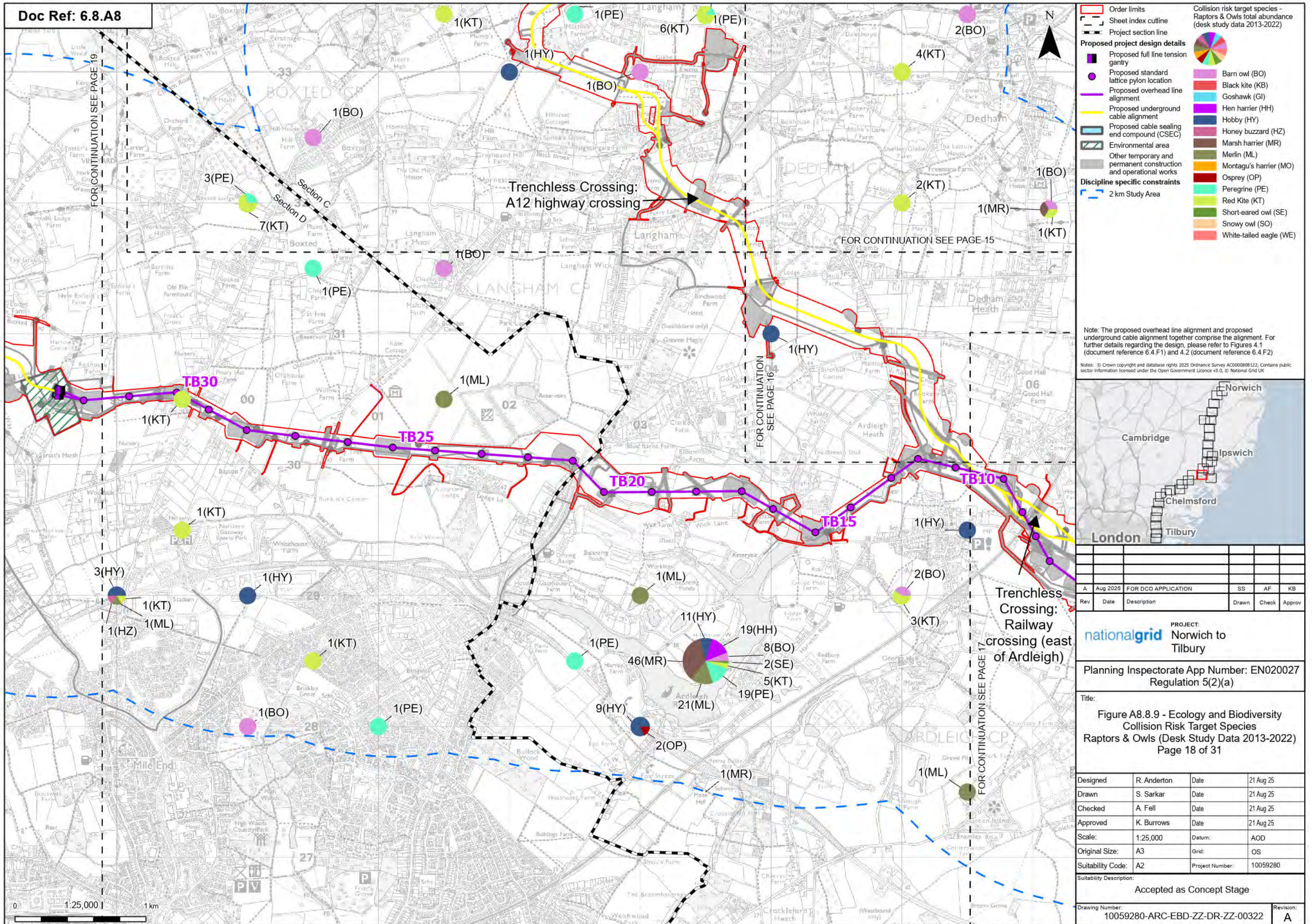
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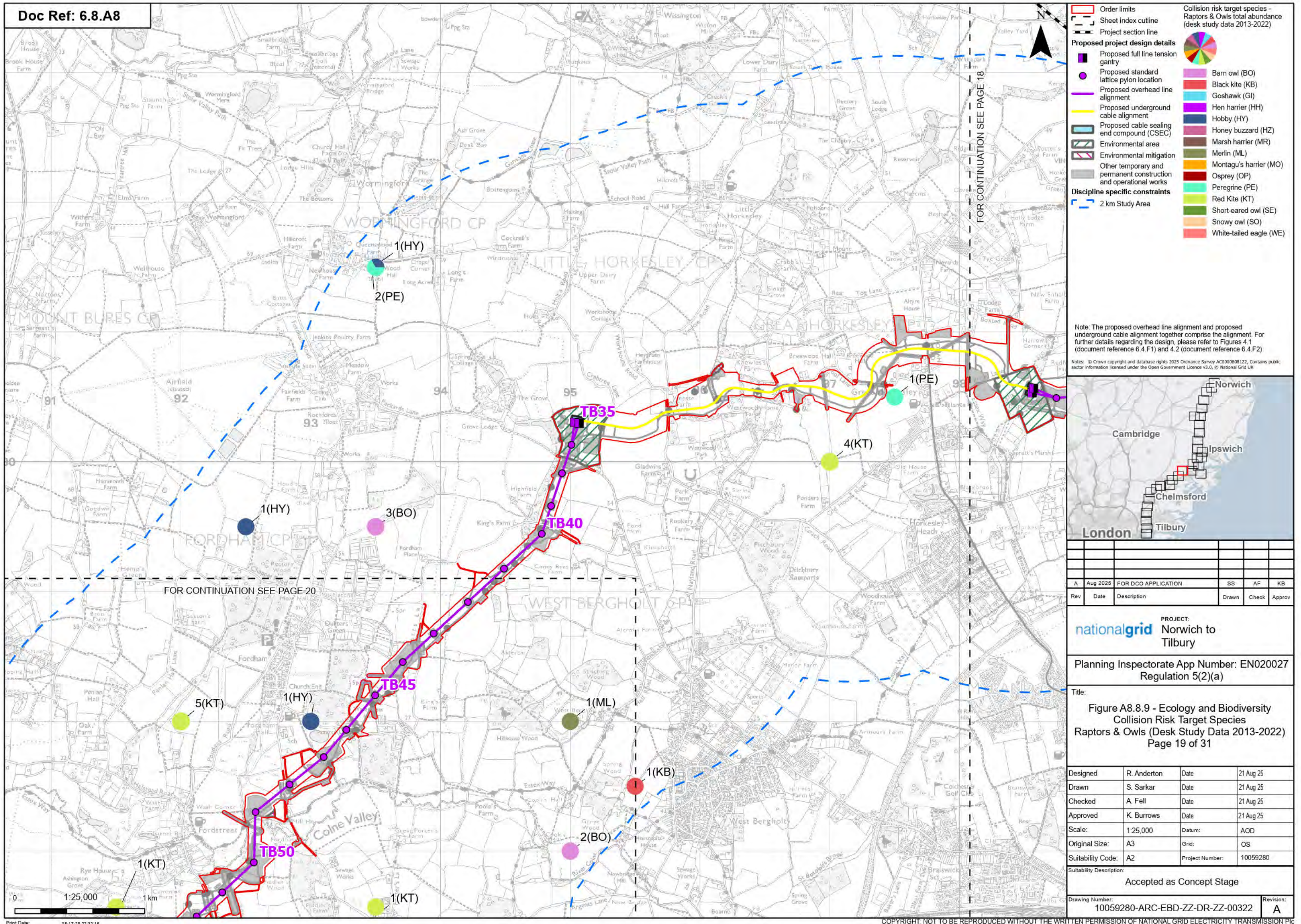
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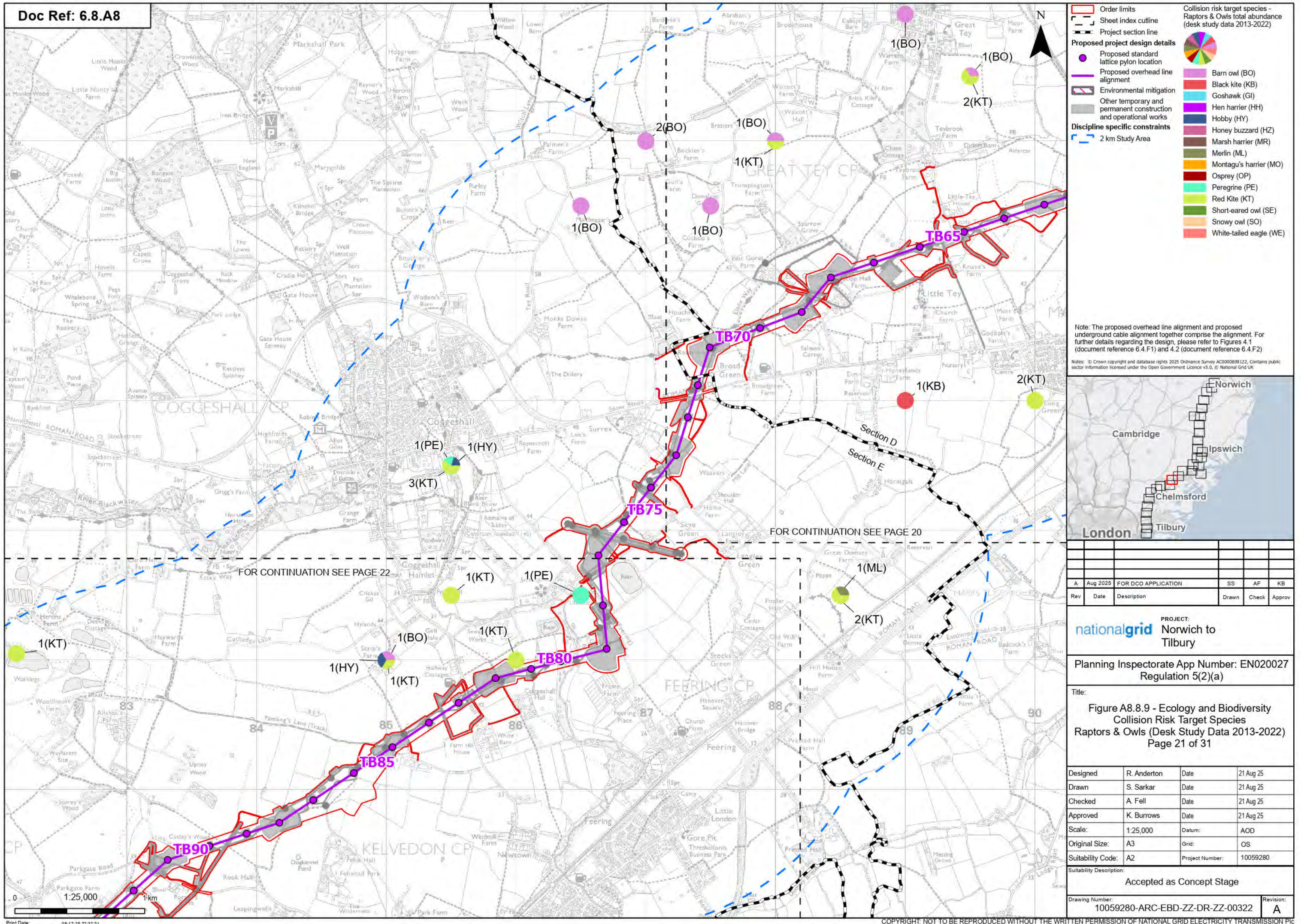


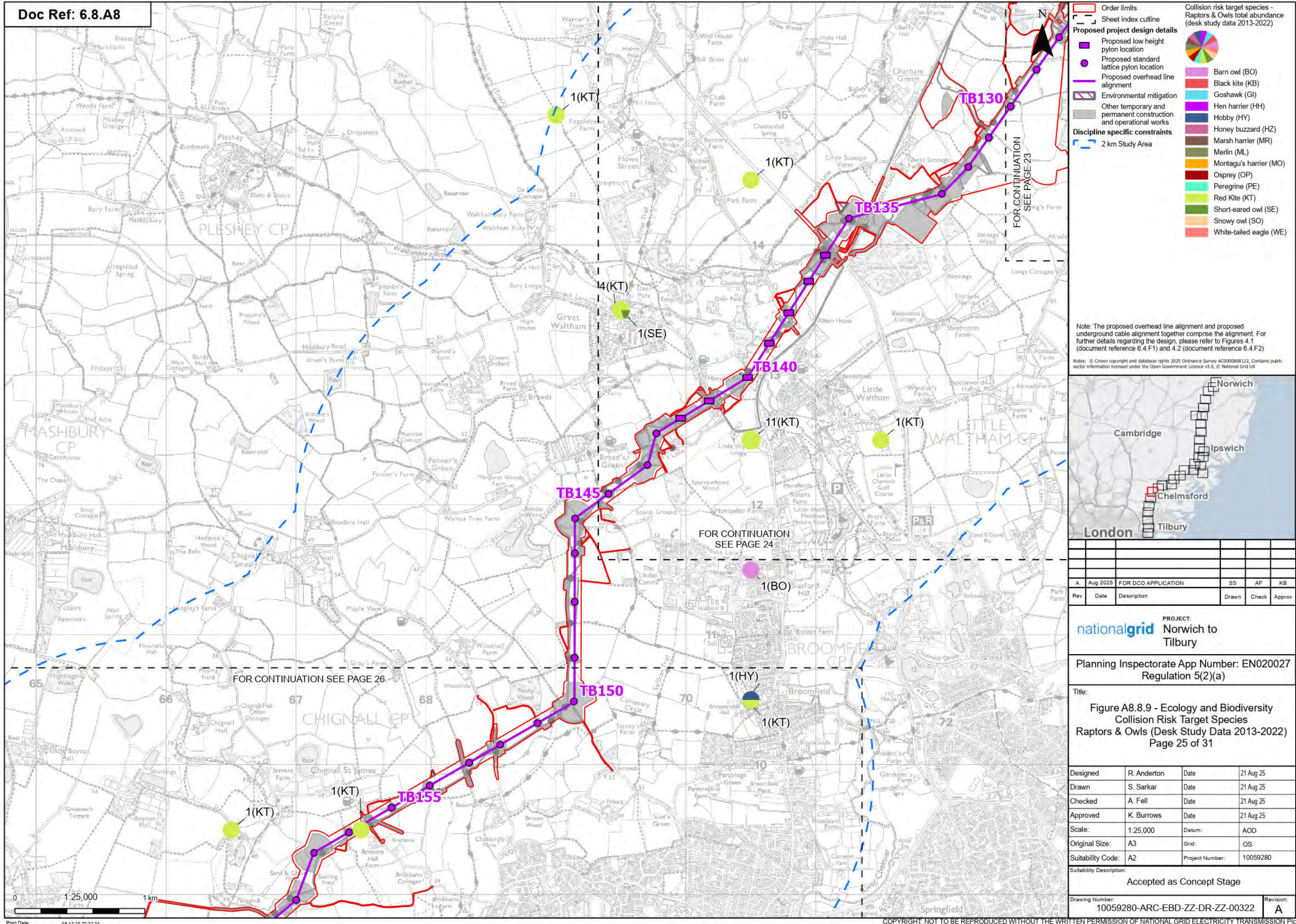


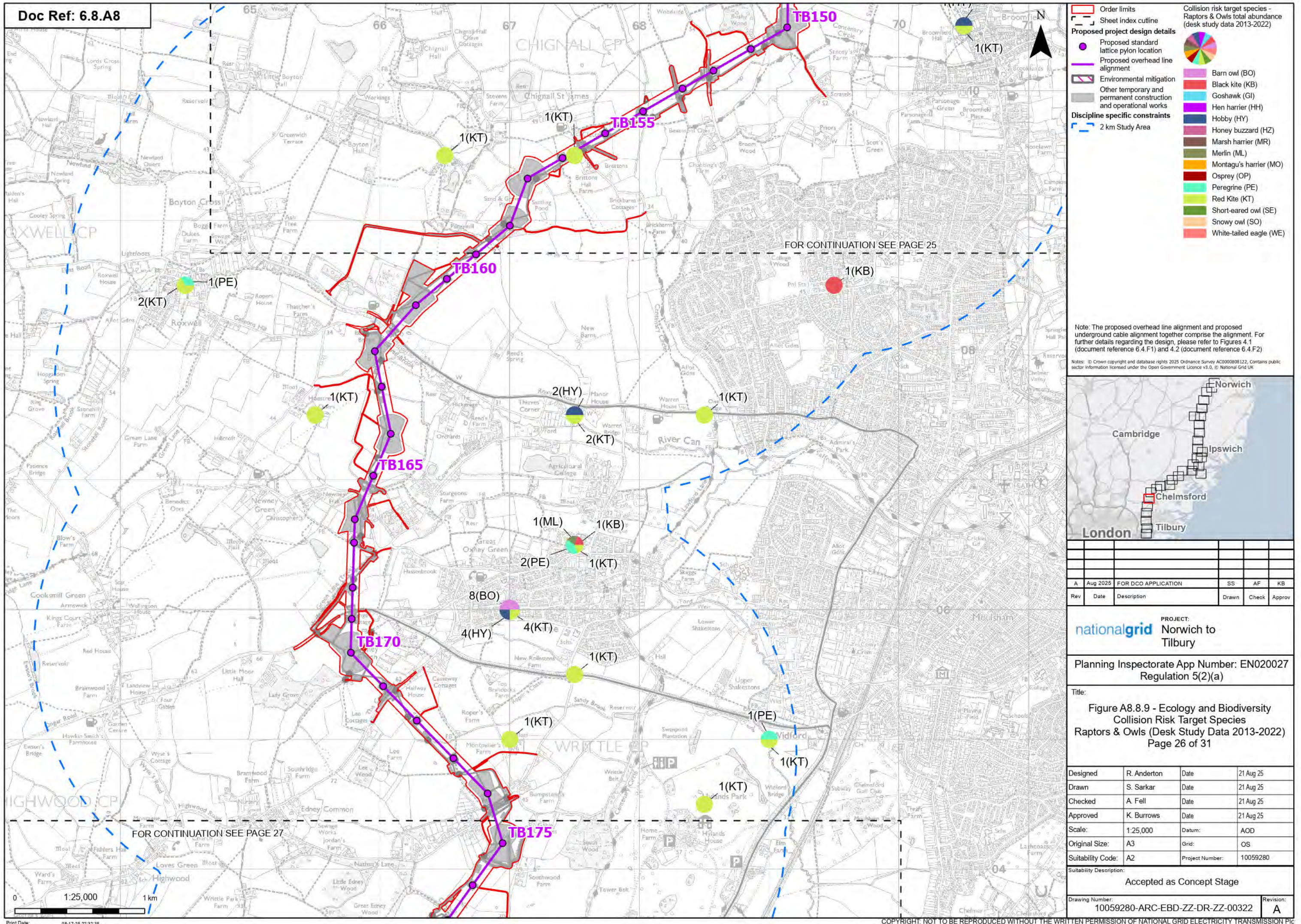


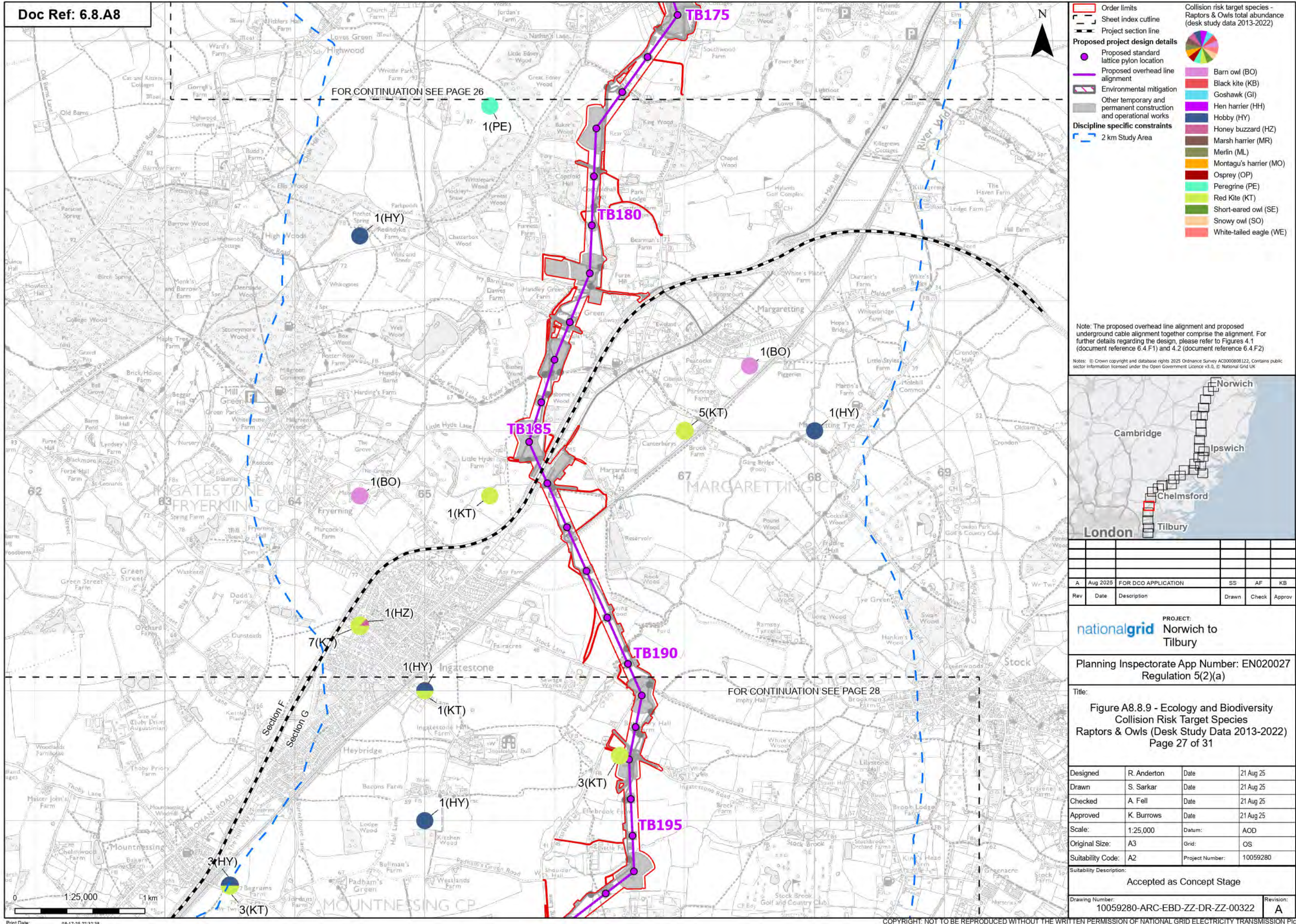


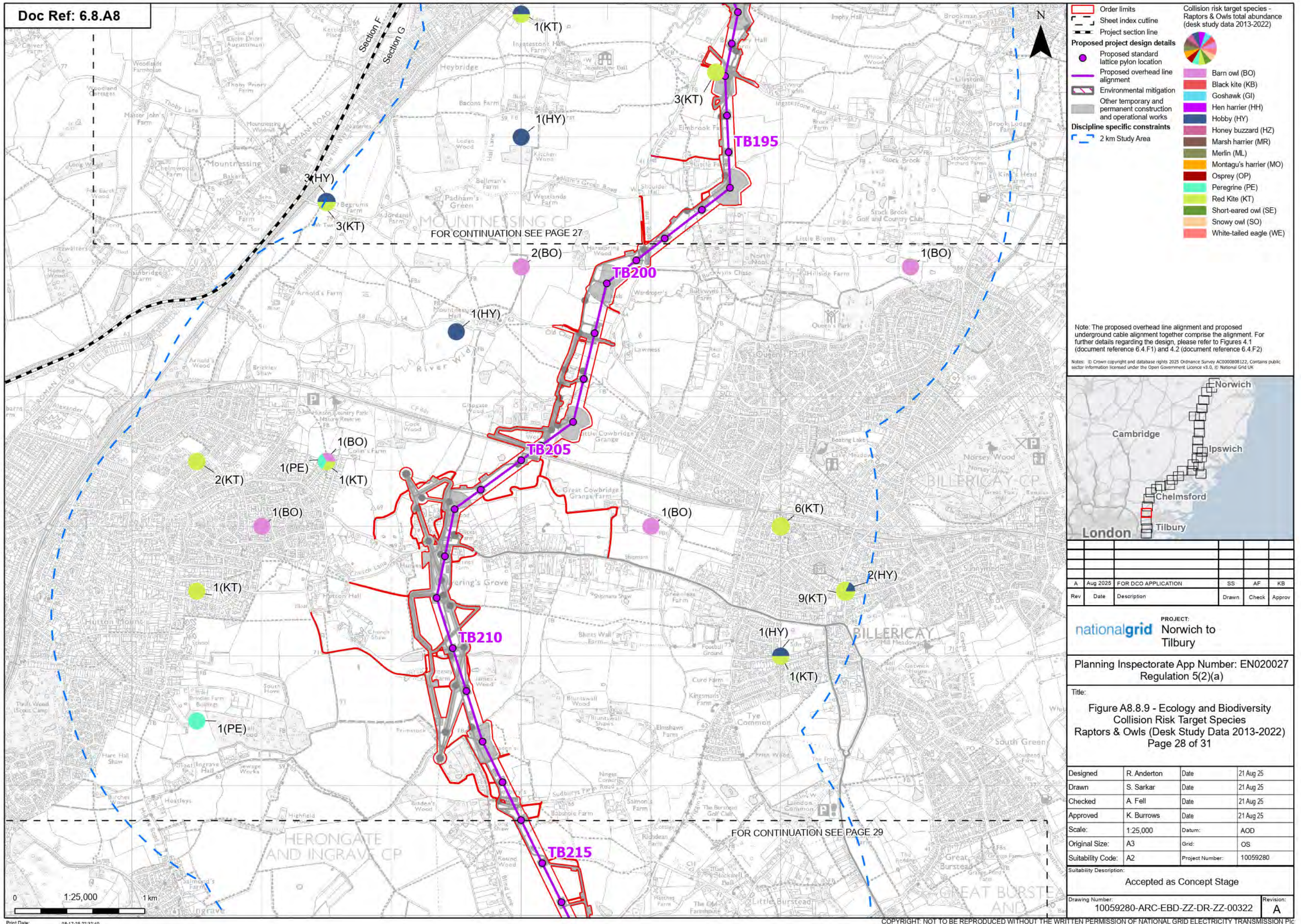


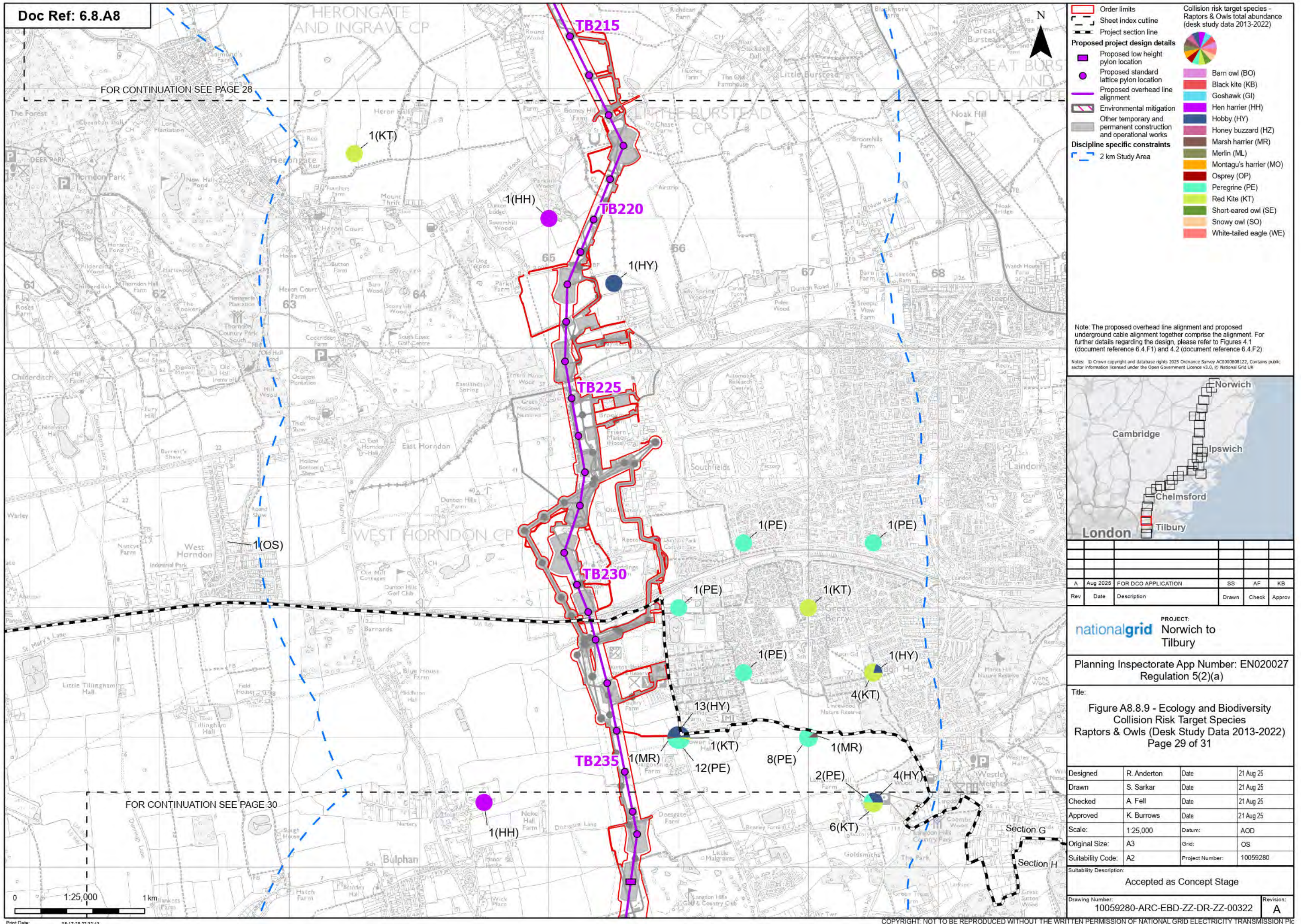


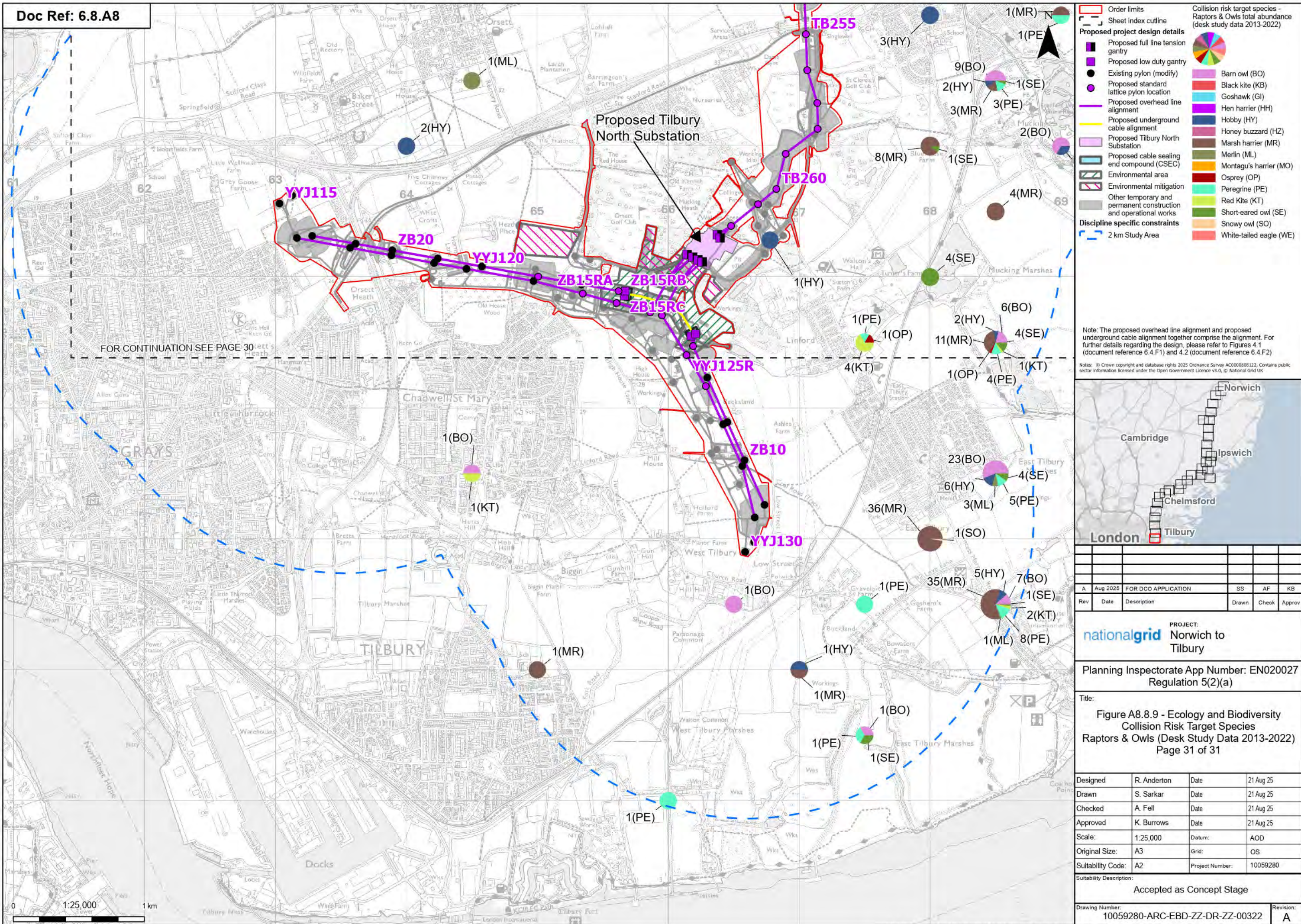












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Sheet index outline
- Proposed project design details**
- Proposed full line tension gantry
 - Proposed low duty gantry
 - Existing pylon (modify)
 - Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Proposed underground 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
- Collision risk target species - Raptors & Owls total abundance (desk study data 2013-2022)**
- Barn owl (BO)
 - Black kite (KB)
 - Goshawk (GI)
 - Hen harrier (HH)
 - Hobby (HY)
 - Honey buzzard (HZ)
 - Marsh harrier (MR)
 - Merlin (ML)
 - Montagu's harrier (MO)
 - Osprey (OP)
 - Peregrine (PE)
 - Red Kite (KT)
 - Short-eared owl (SE)
 - Snowy owl (SO)
 - White-tailed eagle (WE)

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**

Planning Inspectorate App Number: EN020027
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Title: **Figure A8.8.9 - Ecology and Biodiversity Collision Risk Target Species Raptors & Owls (Desk Study Data 2013-2022)**
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Approved	K. Burrows	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

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Revision: A

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