

Norwich to Tilbury

Volume 6: Environmental Statement

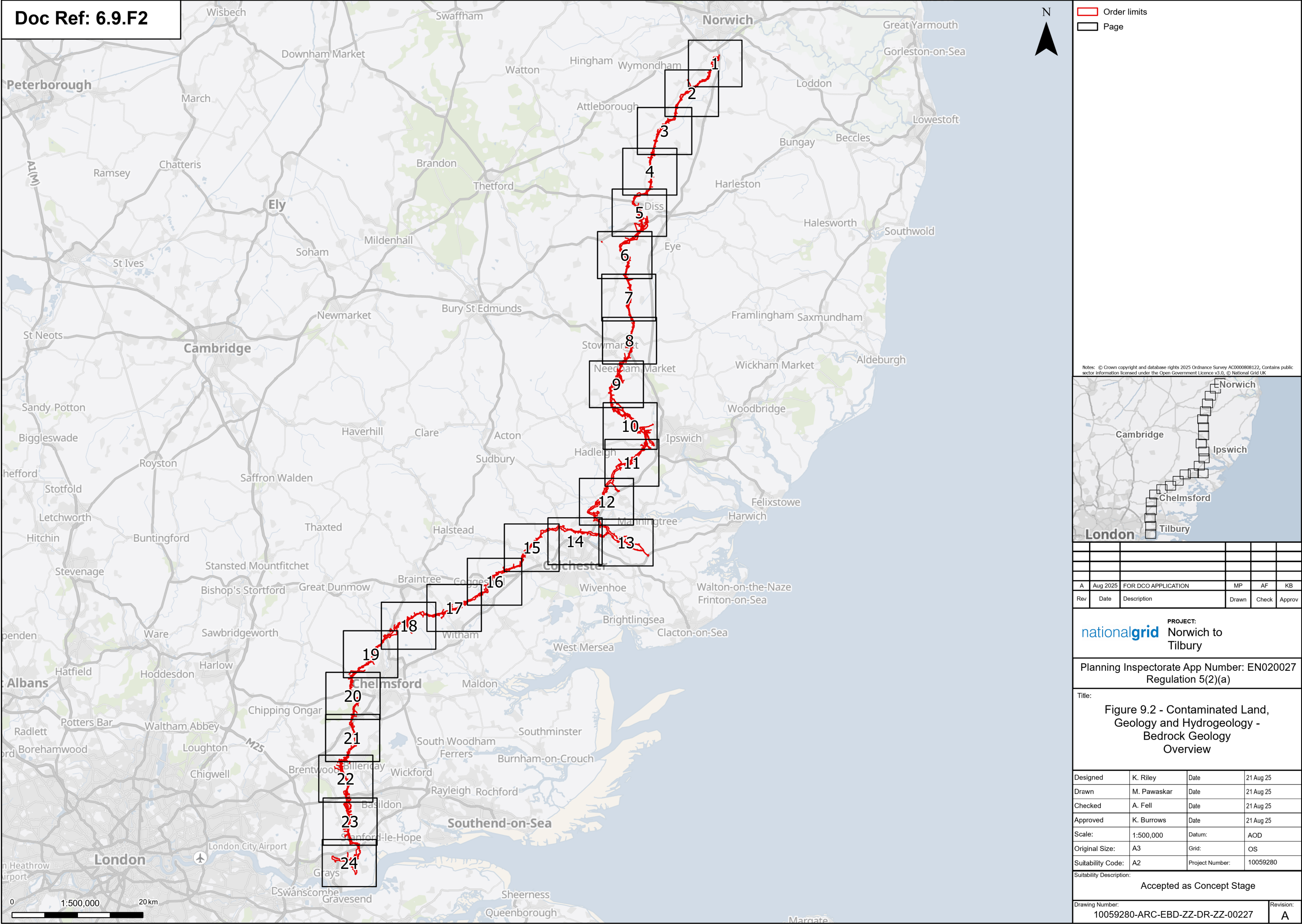
Document: 6.9.F2 Environmental Statement Figure 9.2 - Bedrock Geology

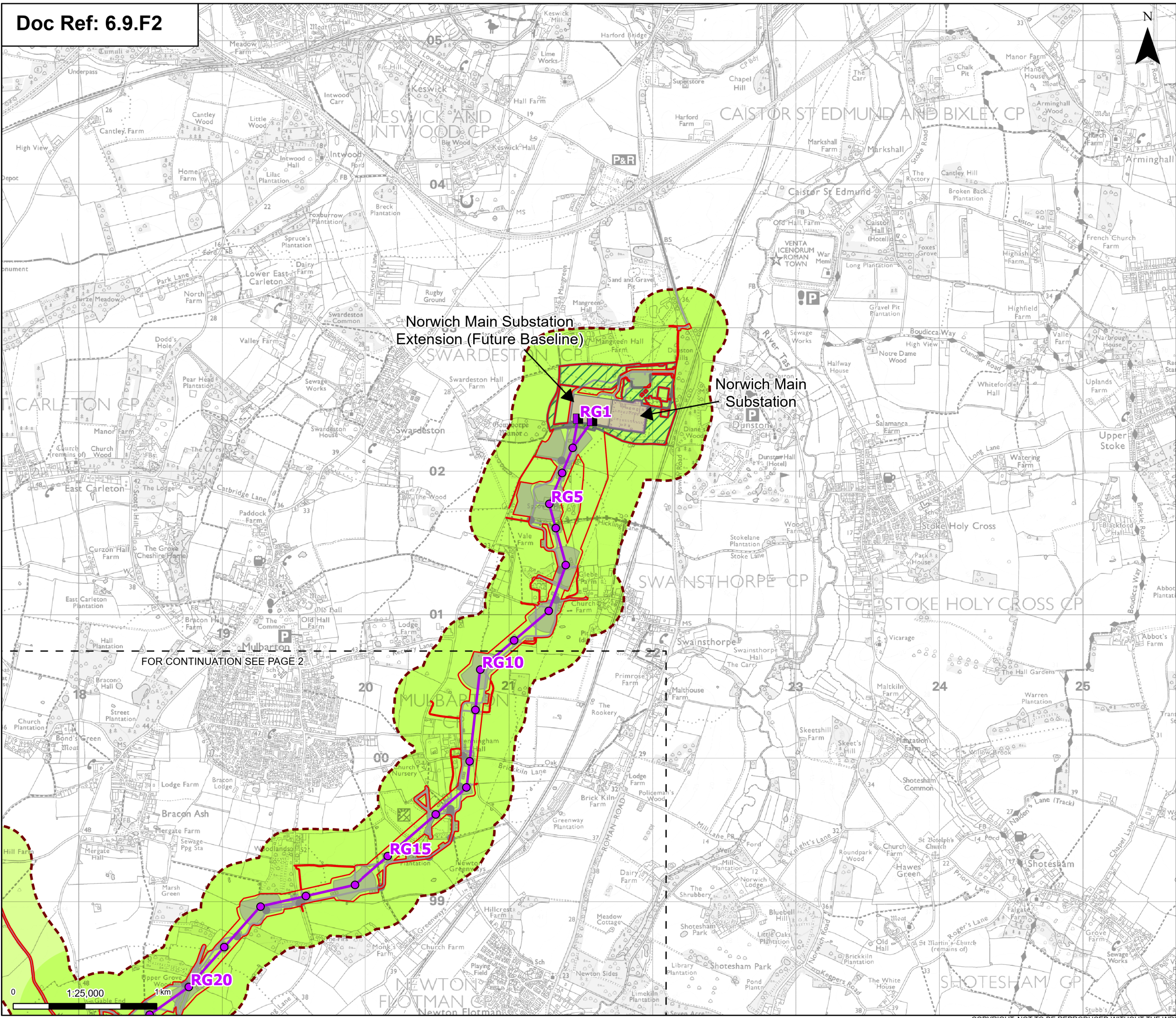
Final Issue A

August 2025

Planning Inspectorate Reference: EN020027

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 Regulation 5(2)(a)





Order limits

Proposed project design details

Discipline specific constraints

Bedrock geology

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

250 m Study Area

Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown Chalk Formation (Undifferentiated) - Chalk

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 9.2 - Contaminated Land, Geology and Hydrogeology - Bedrock Geology

Page 1 of 24

Designed	K. Riley	Date	21 Aug 25
Drawn	M. Pawaskar	Date	21 Aug 25
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Accepted as Concept Stage			

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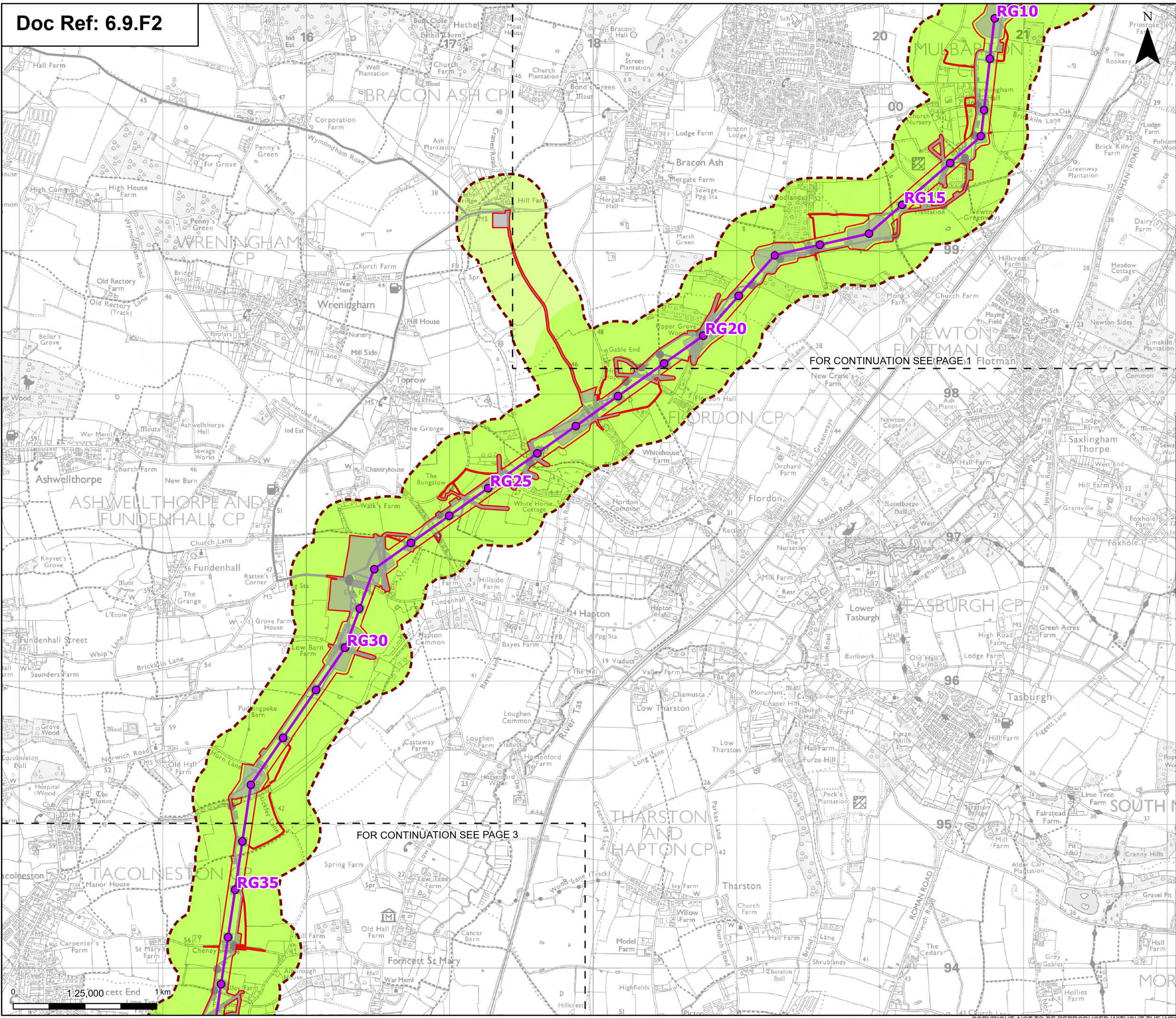
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Order limits

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

250 m Study Area

Bedrock geology

Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown Chalk Formation (Undifferentiated) - Chalk

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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Title:

Figure 9.2 - Contaminated Land, Geology and Hydrogeology - Bedrock Geology

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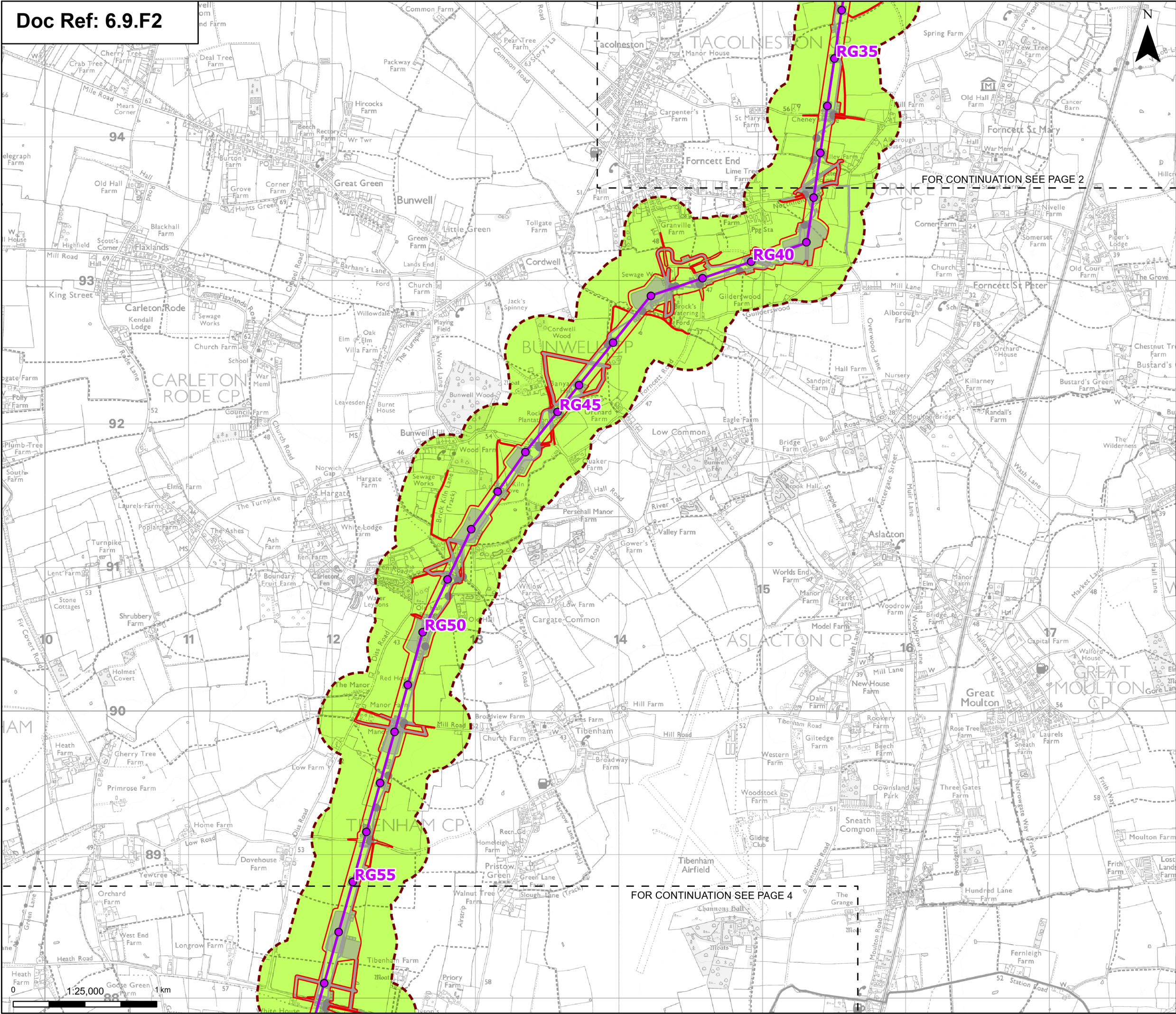
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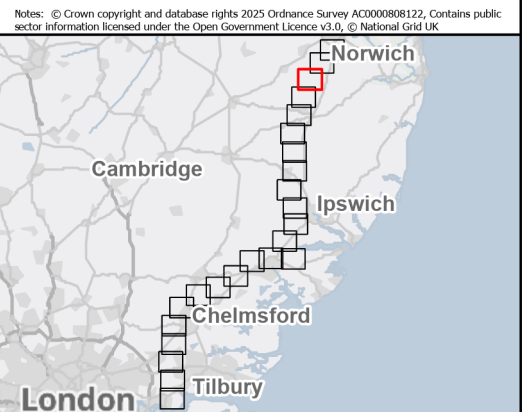
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- Order limits**
- Order limits
- Proposed project design details**
- Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Other temporary and permanent construction and operational works
- Discipline specific constraints**
- 250 m Study Area
- Bedrock geology**
- Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown Chalk Formation (Undifferentiated) - Chalk
- 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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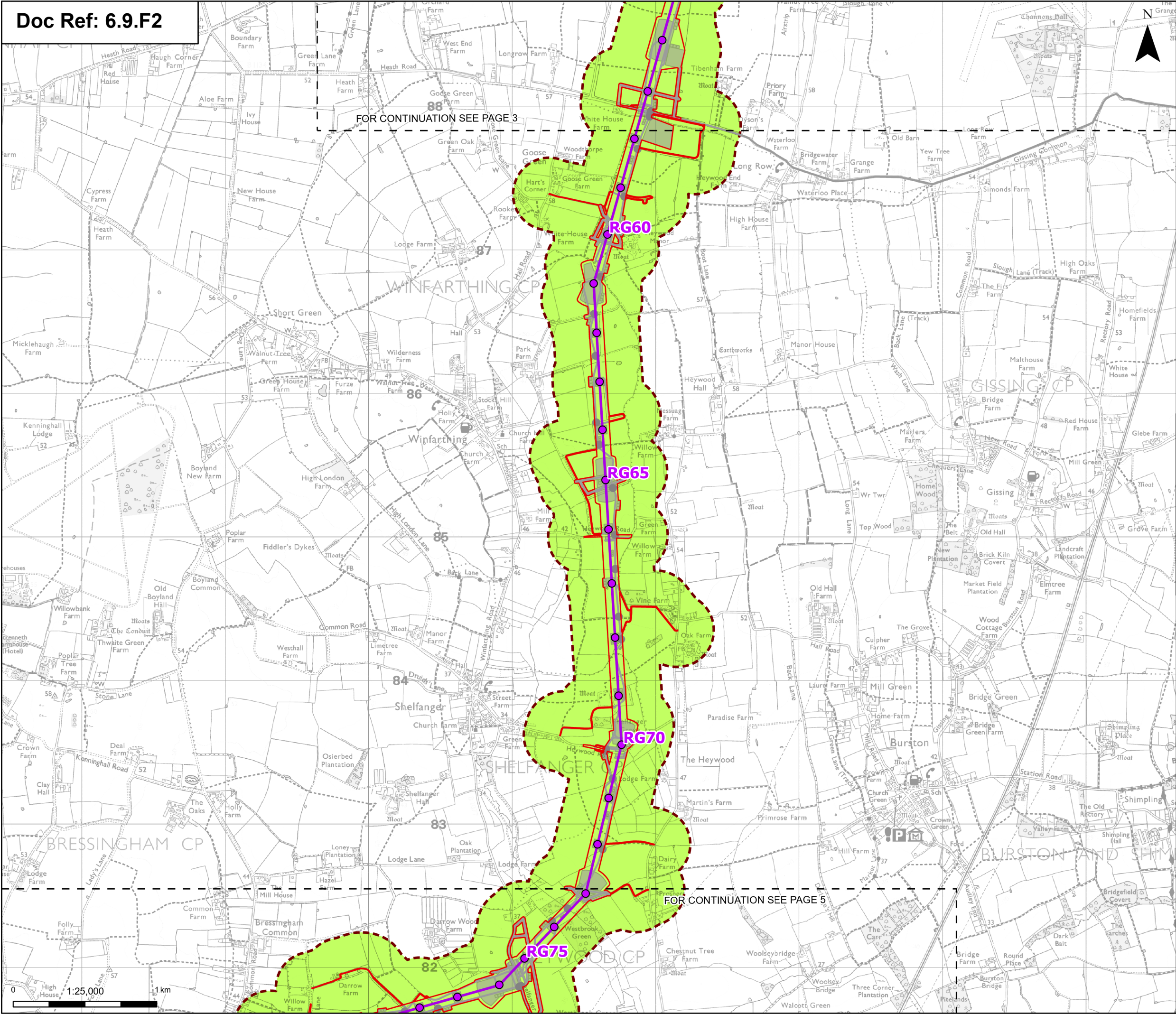
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Figure 9.2 - Contaminated Land, Geology and Hydrogeology - Bedrock Geology
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Order limits

Proposed project design details

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

Discipline specific constraints

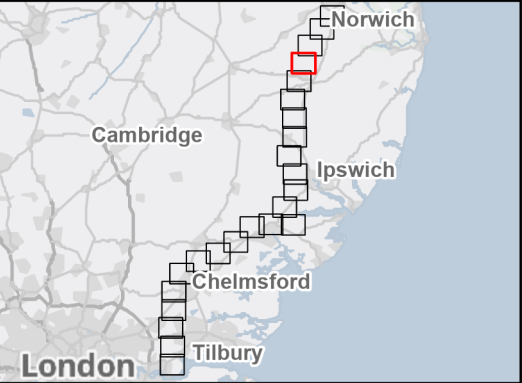
- 250 m Study Area

Bedrock geology

Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown Chalk Formation (Undifferentiated) - Chalk

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

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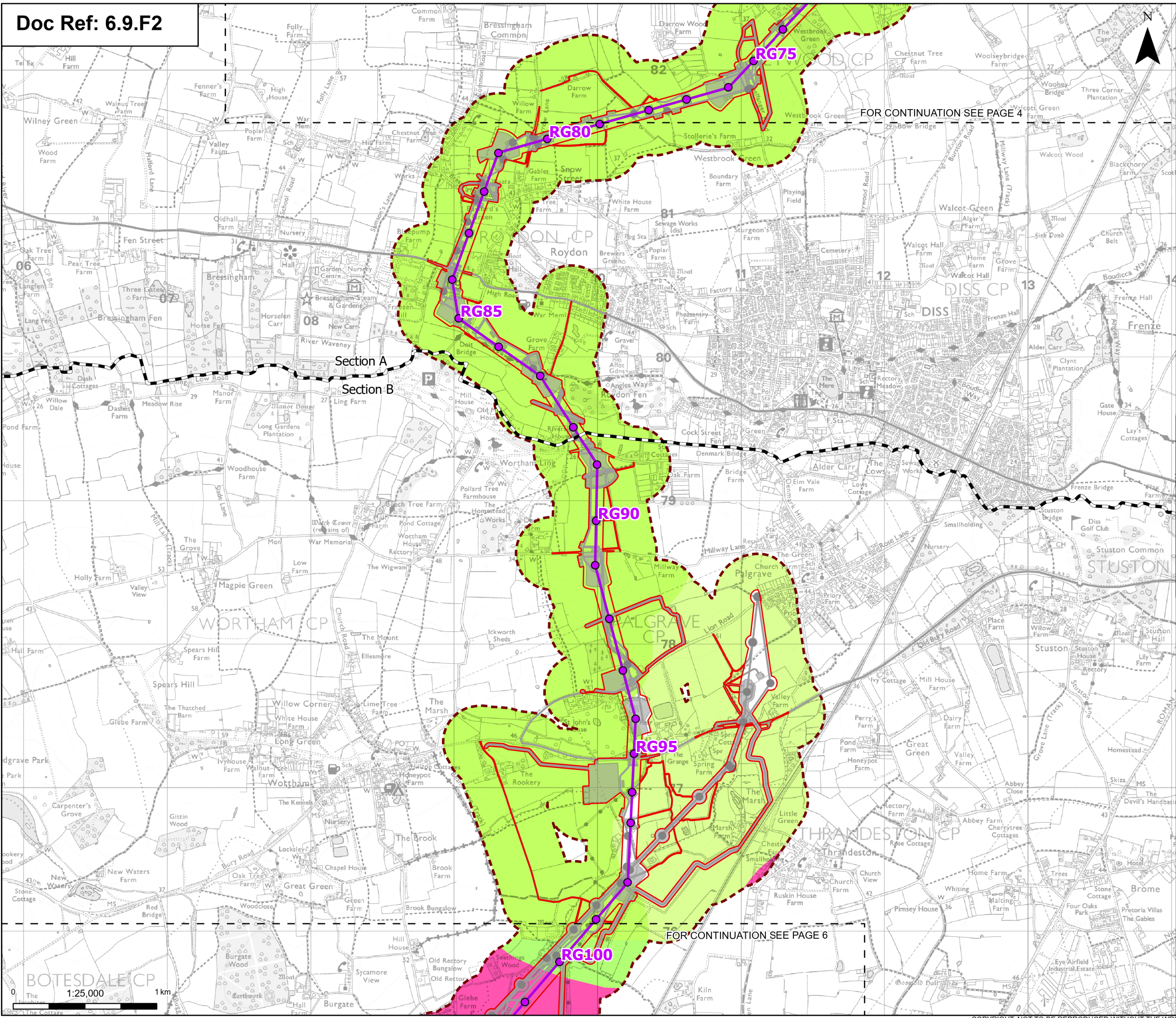
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Order limits

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

250 m Study Area

Bedrock geology

Crag Group - Sand

Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown Chalk Formation (Undifferentiated) - Chalk

Norwich Crag Formation - Sand

Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation And Culver Chalk Formation (Undifferentiated) - Chalk

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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Figure 9.2 - Contaminated Land, Geology and Hydrogeology - Bedrock Geology

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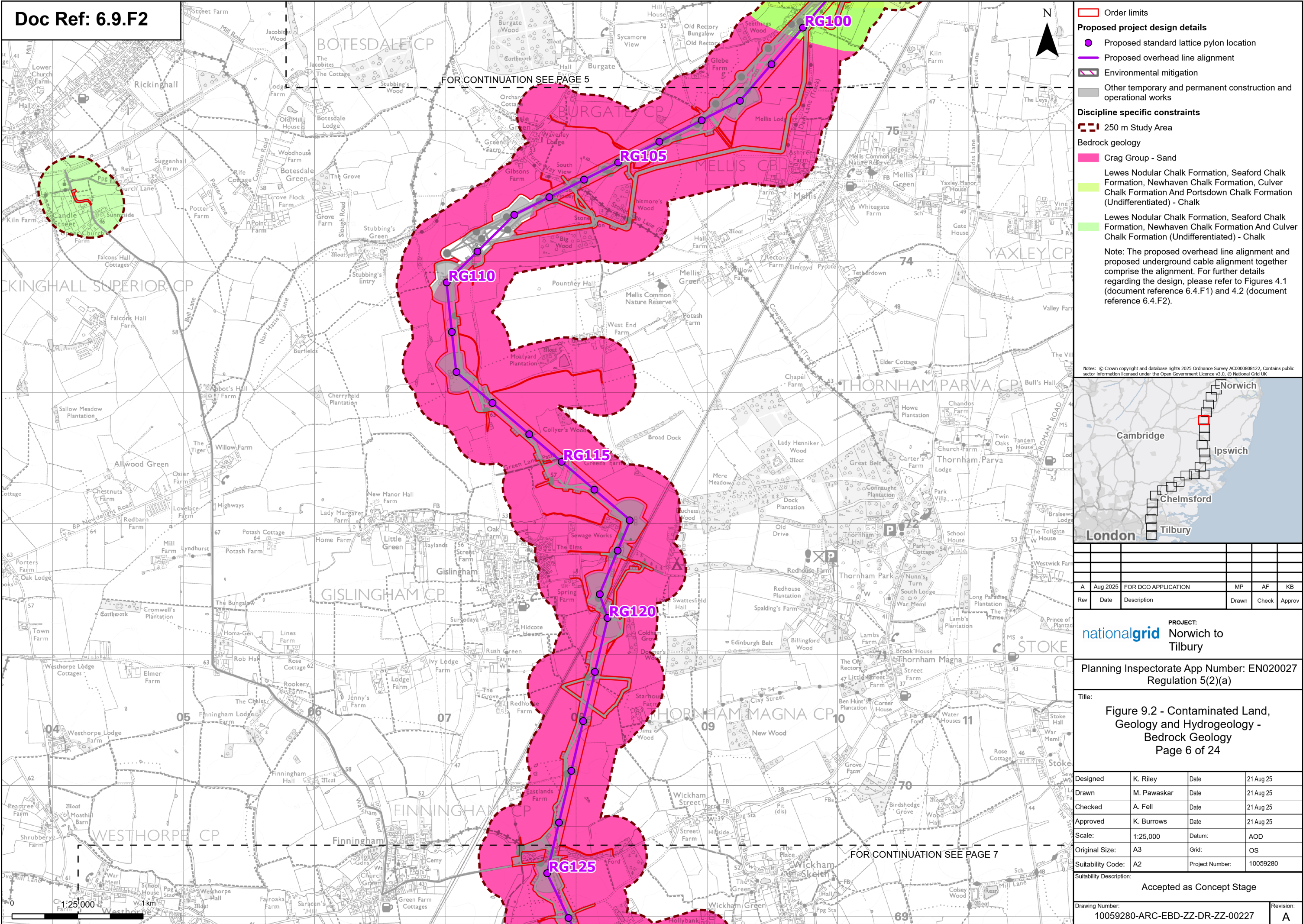
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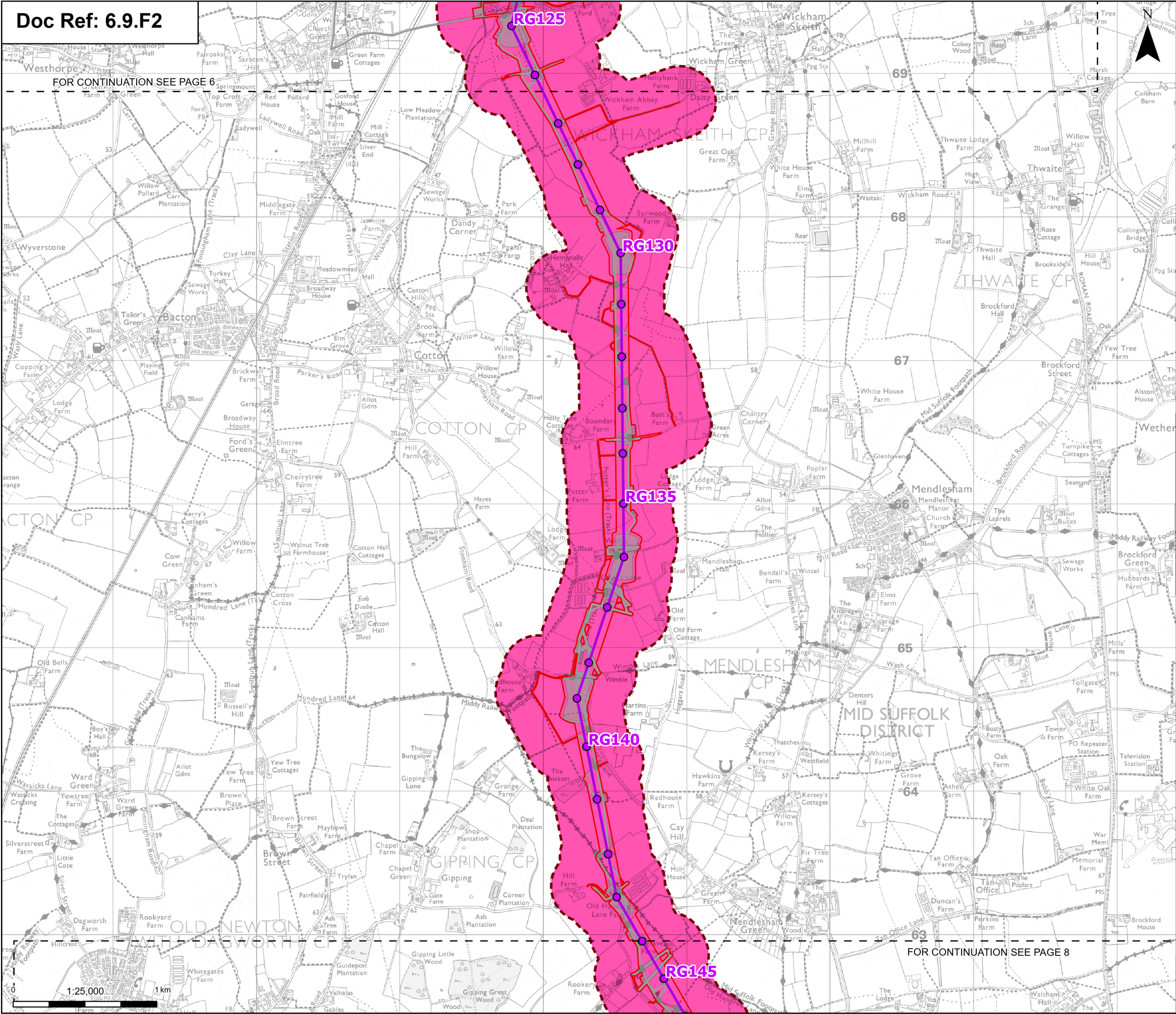
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Order limits

Proposed project design details

Discipline specific constraints

Bedrock geology

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).

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

250 m Study Area

Crag Group - Sand

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Norwich to Tilbury

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Figure 9.2 - Contaminated Land, Geology and Hydrogeology - Bedrock Geology
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FOR CONTINUATION SEE PAGE 7

FOR CONTINUATION SEE PAGE 9

Order limits

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

250 m Study Area

Bedrock geology

Crag Group - Sand

Newhaven Chalk Formation - Chalk

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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Figure 9.2 - Contaminated Land,
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Bedrock Geology
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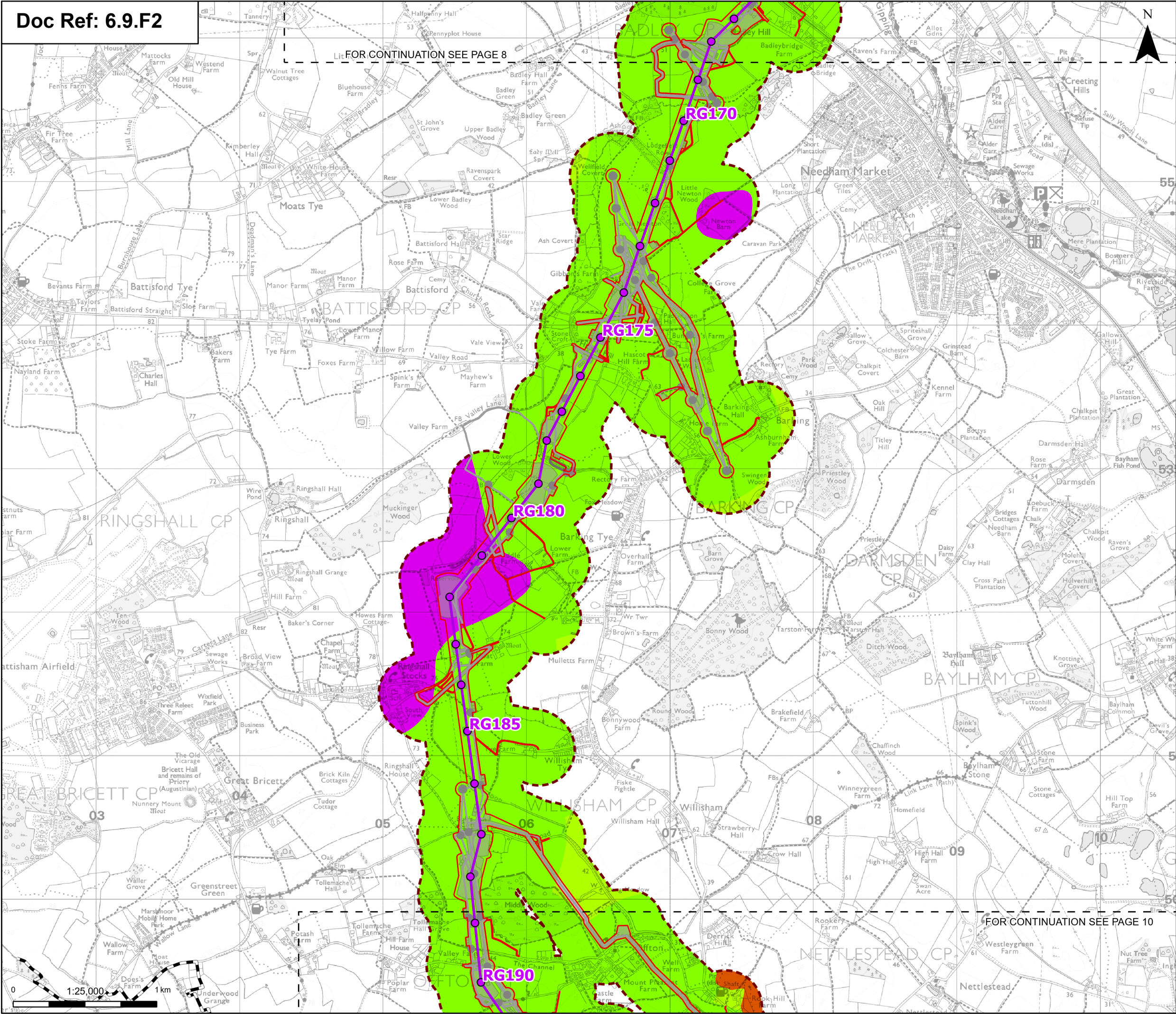
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Order limits

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

250 m Study Area

Bedrock geology

Red Crag Formation - Sand

Newhaven Chalk Formation - Chalk

Chillesford Church Sand Member - Sand

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

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Figure 9.2 - Contaminated Land, Geology and Hydrogeology - Bedrock Geology

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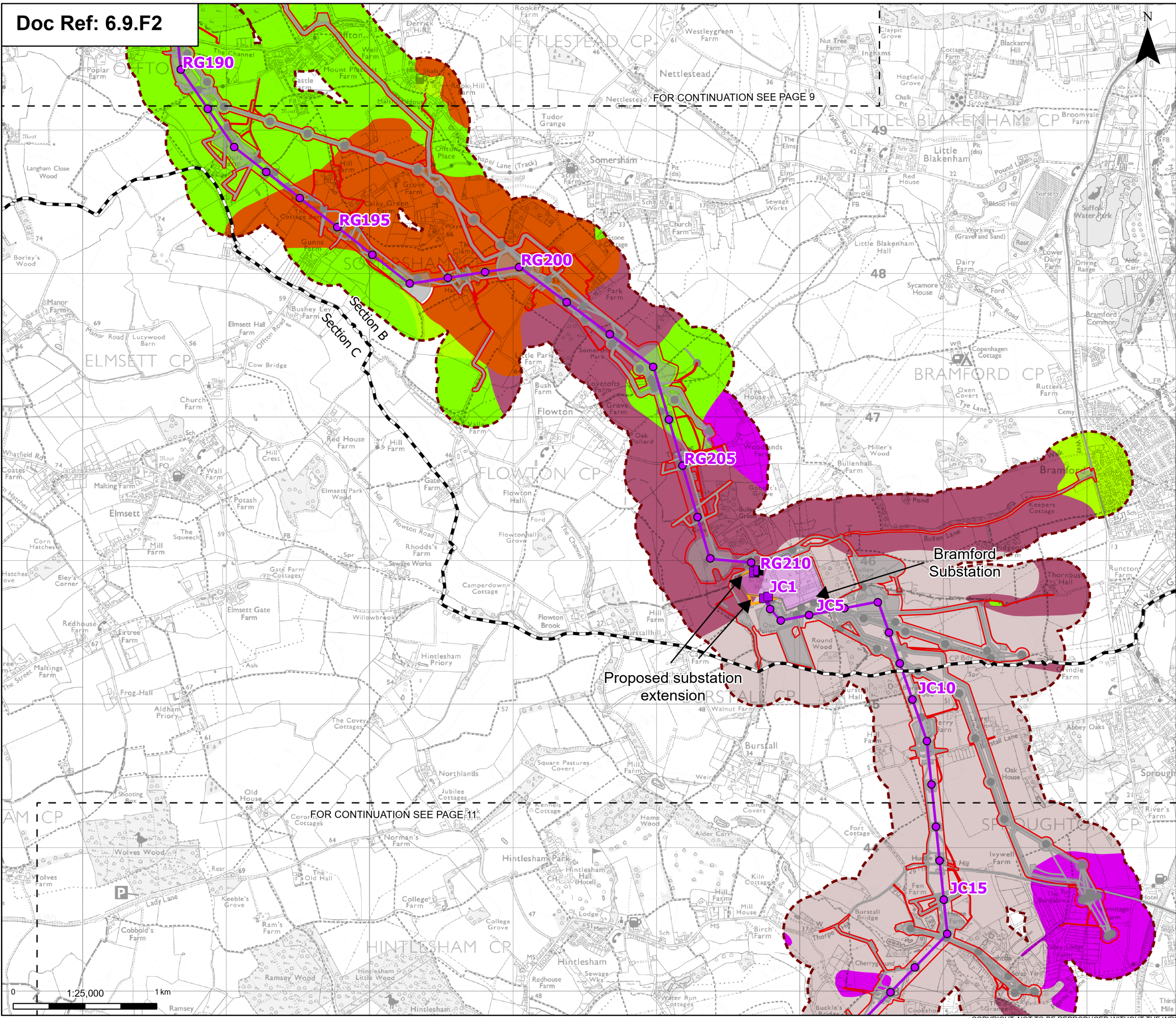
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Order limits

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

250 m Study Area

Bedrock geology

Red Crag Formation - Sand

Thames Group - Clay, Silt And Sand

Newhaven Chalk Formation - Chalk

Thanet Formation And Lambeth Group (Undifferentiated) - Clay, Silt And Sand

Chillesford Church Sand Member - Sand

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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Figure 9.2 - Contaminated Land, Geology and Hydrogeology - Bedrock Geology

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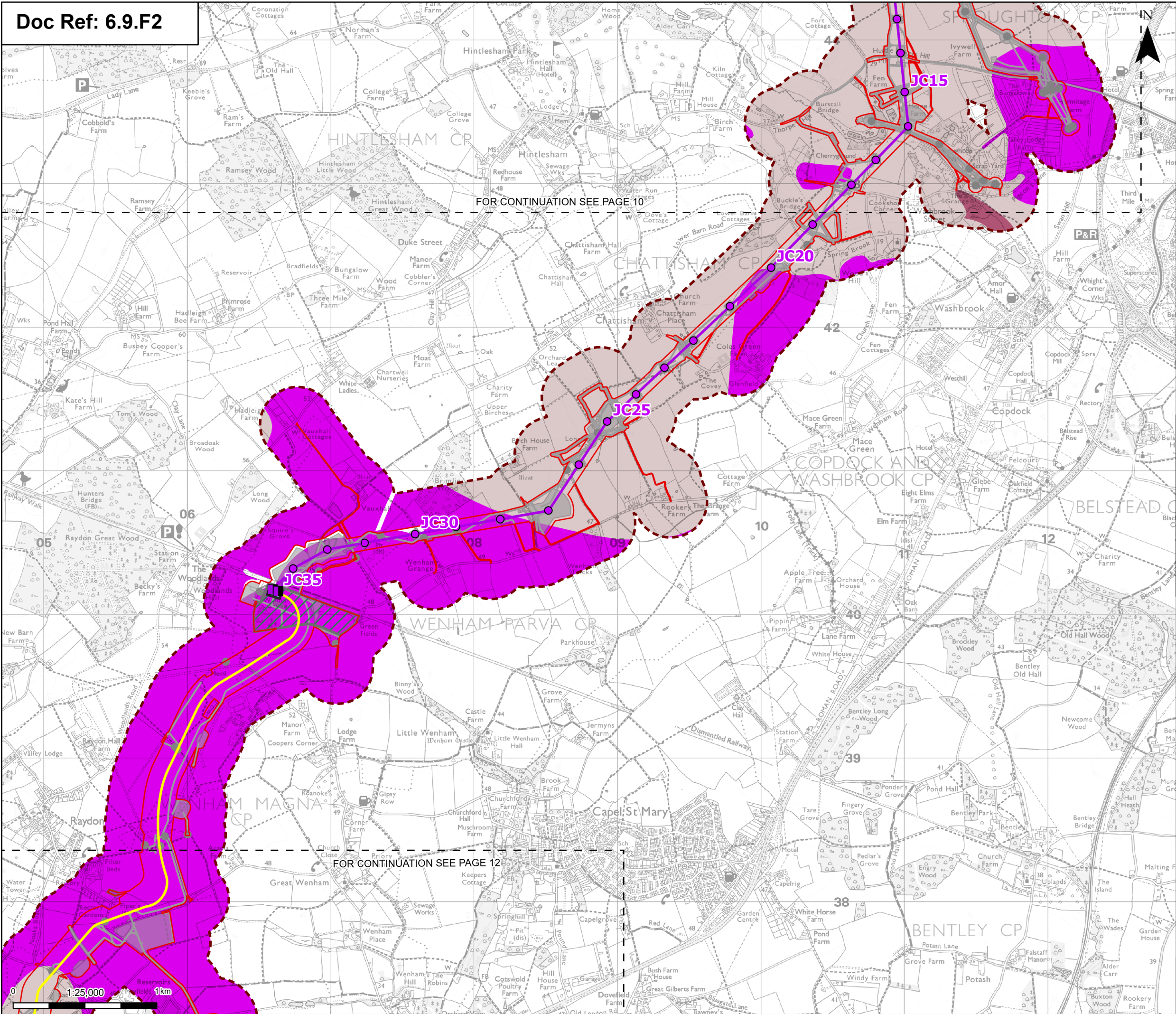
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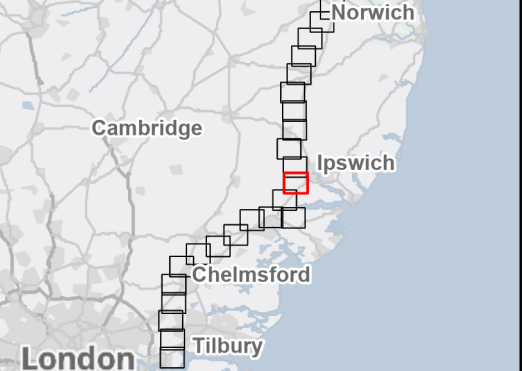


- Order limits**
- Order limits
- Proposed project design details**
- Proposed full line tension gantry
 - Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Proposed underground cable alignment
 - Proposed cable sealing end compound (CSEC)
 - Environmental area
 - Environmental mitigation
 - Other temporary and permanent construction and operational works

- Discipline specific constraints**
- 250 m Study Area
- Bedrock geology**
- Red Crag Formation - Sand
 - Thames Group - Clay, Silt And Sand
 - Thanet Formation And Lambeth Group (Undifferentiated) - Clay, Silt And Sand

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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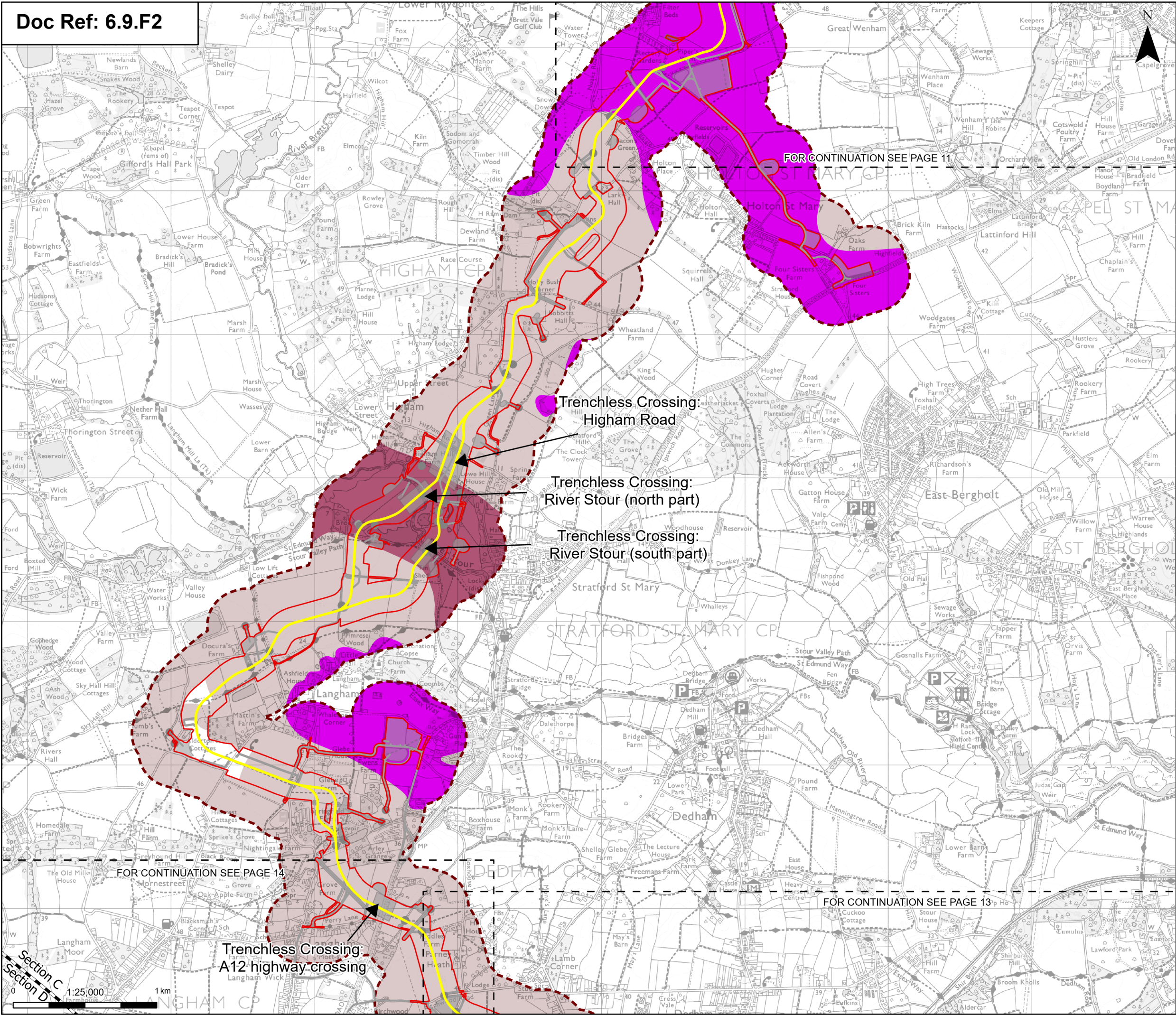
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Figure 9.2 - Contaminated Land, Geology and Hydrogeology - Bedrock Geology
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Order limits

Project section line

Proposed project design details

Proposed underground cable alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

250 m Study Area

Bedrock geology

Red Crag Formation - Sand

Thames Group - Clay, Silt And Sand

Thanet Formation And Lambeth Group (Undifferentiated) - Clay, Silt And Sand

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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Figure 9.2 - Contaminated Land, Geology and Hydrogeology - Bedrock Geology

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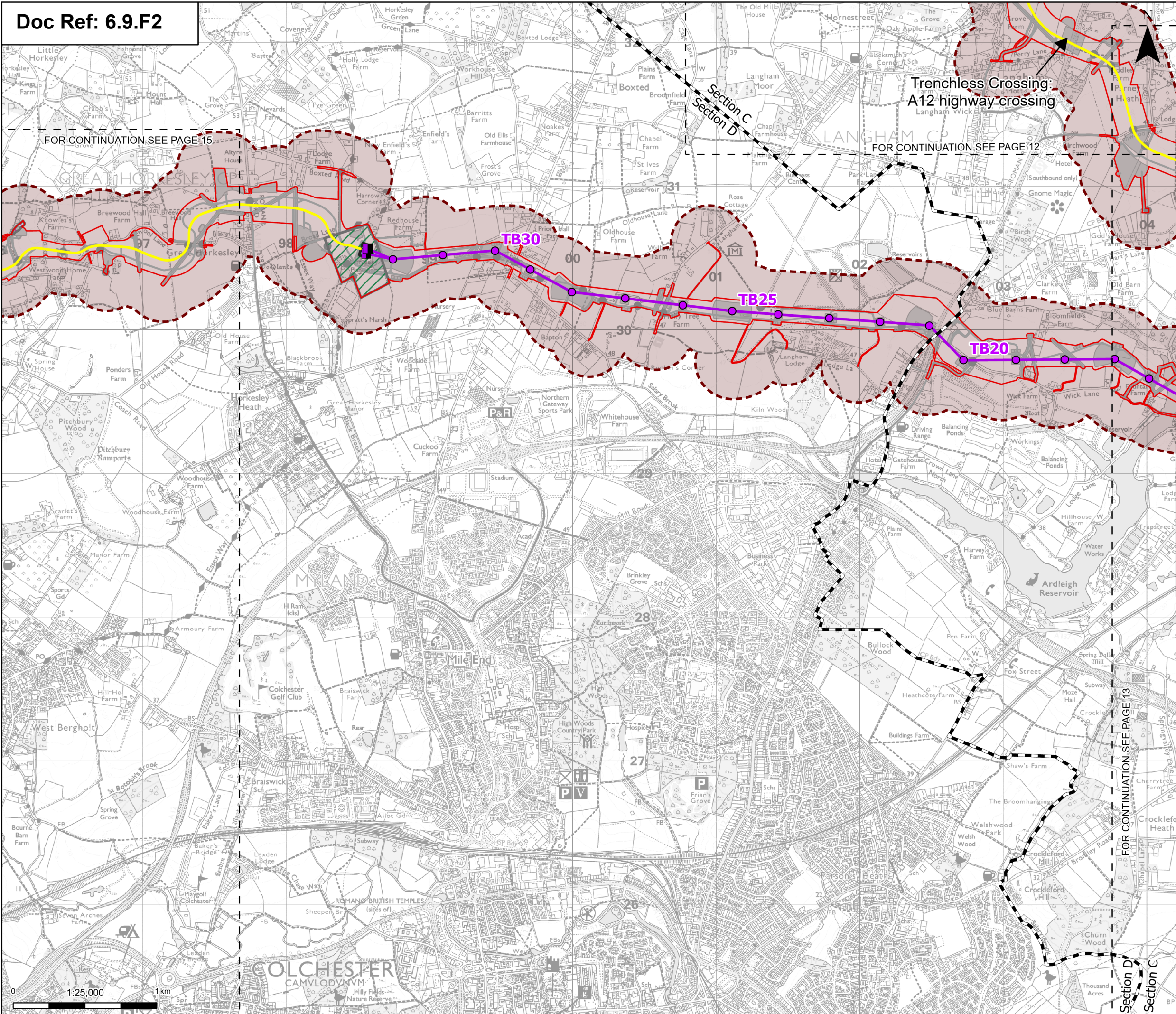
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Order limits

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

250 m Study Area

Bedrock geology

London Clay Formation - Clay, Silt And Sand

Thames Group - Clay, Silt And Sand

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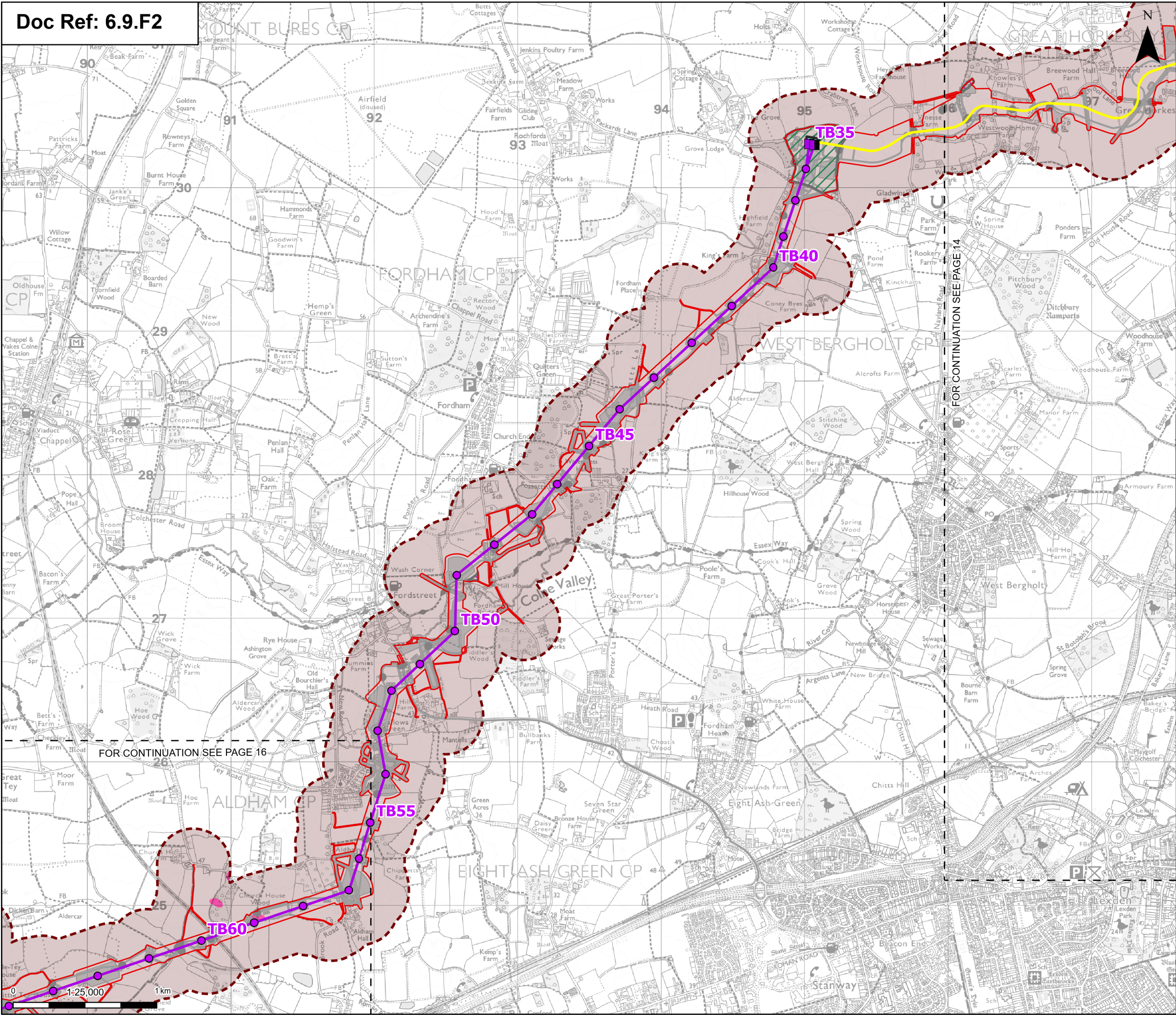
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Order limits

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

- 250 m Study Area

Bedrock geology

- London Clay Formation - Clay, Silt And Sand
- Crag Group - Sand

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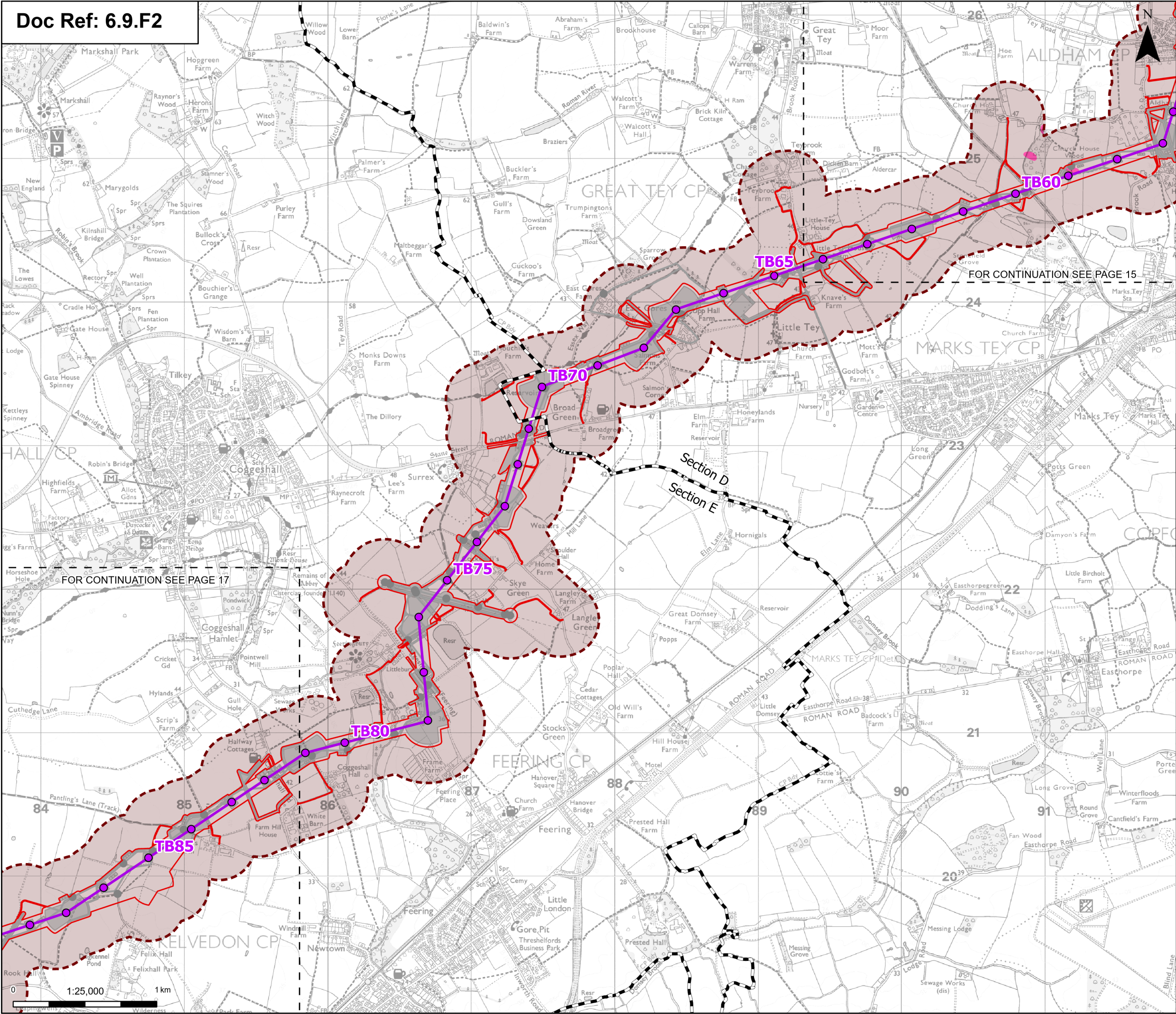
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Designed	K. Riley	Date	21 Aug 25
Drawn	M. Pawaskar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280
Suitability Description:			

Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00227	Revision: A
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Order limits

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

250 m Study Area

Bedrock geology

London Clay Formation - Clay, Silt And Sand

Crag Group - Sand

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

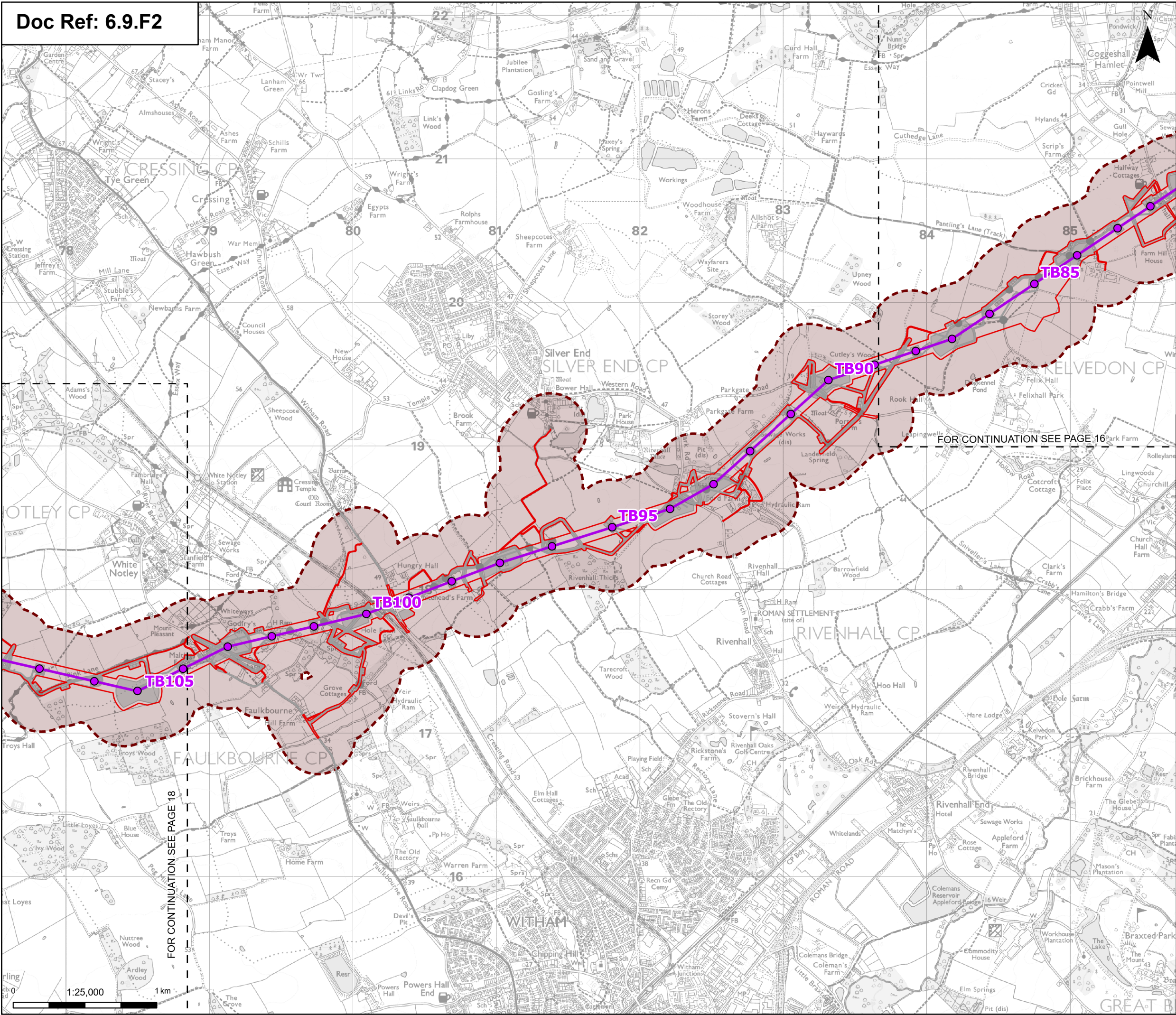
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
Figure 9.2 - Contaminated Land,
Geology and Hydrogeology -
Bedrock Geology
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Designed	K. Riley	Date	21 Aug 25
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Suitability Description:
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Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00227	Revision: A
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- Order limits**
- Order limits
- Proposed project design details**
- Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Other temporary and permanent construction and operational works

- Discipline specific constraints**
- 250 m Study Area

- Bedrock geology**
- London Clay Formation - Clay, Silt And Sand

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)

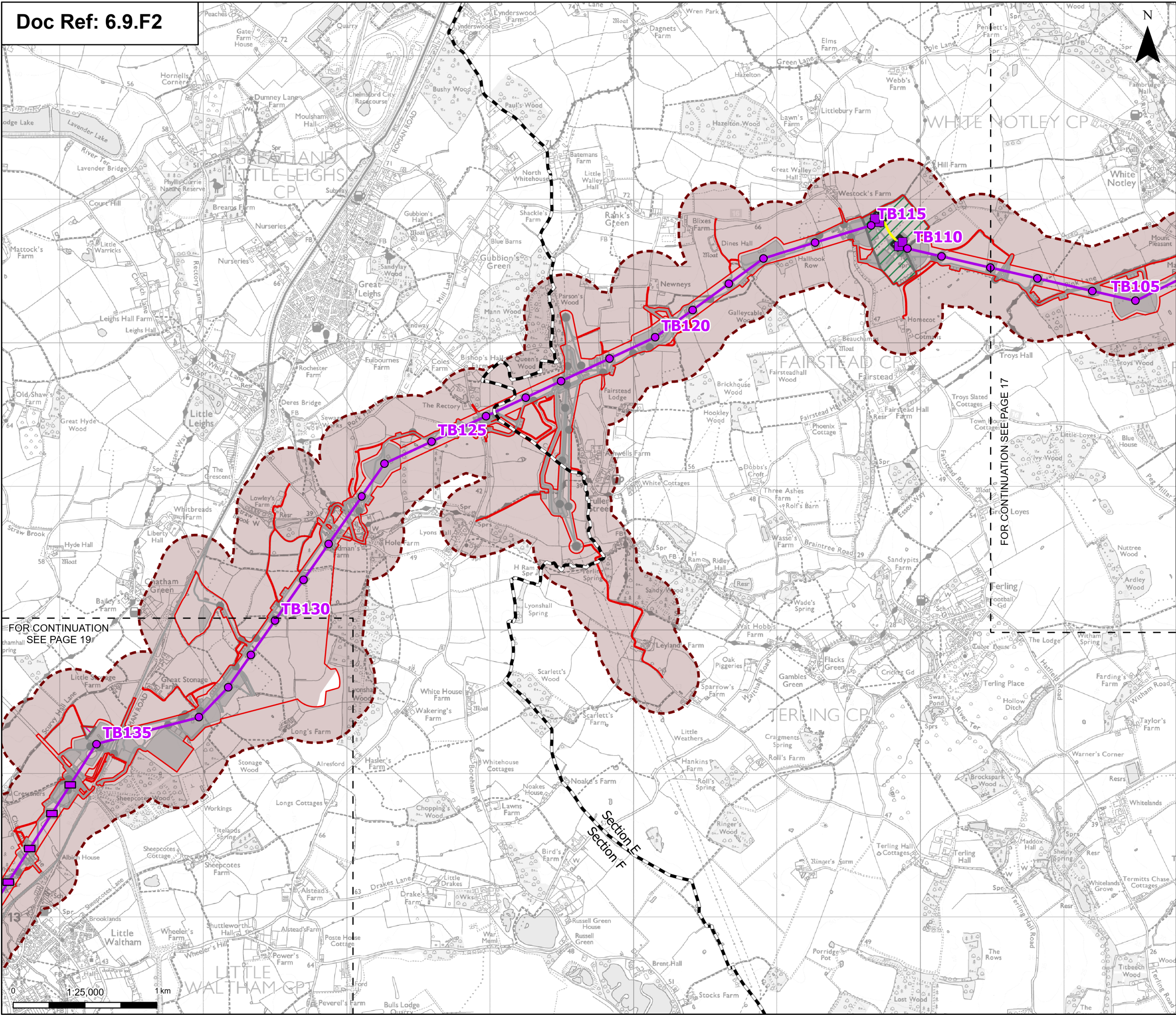
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Figure 9.2 - Contaminated Land, Geology and Hydrogeology - Bedrock Geology
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Order limits

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

250 m Study Area

Bedrock geology

London Clay Formation - Clay, Silt And Sand

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

Ipswich

Cambridge

Chelmsford

Tilbury

London

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Norwich to Tilbury

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Figure 9.2 - Contaminated Land, Geology and Hydrogeology - Bedrock Geology

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Suitability Description:	Accepted as Concept Stage		

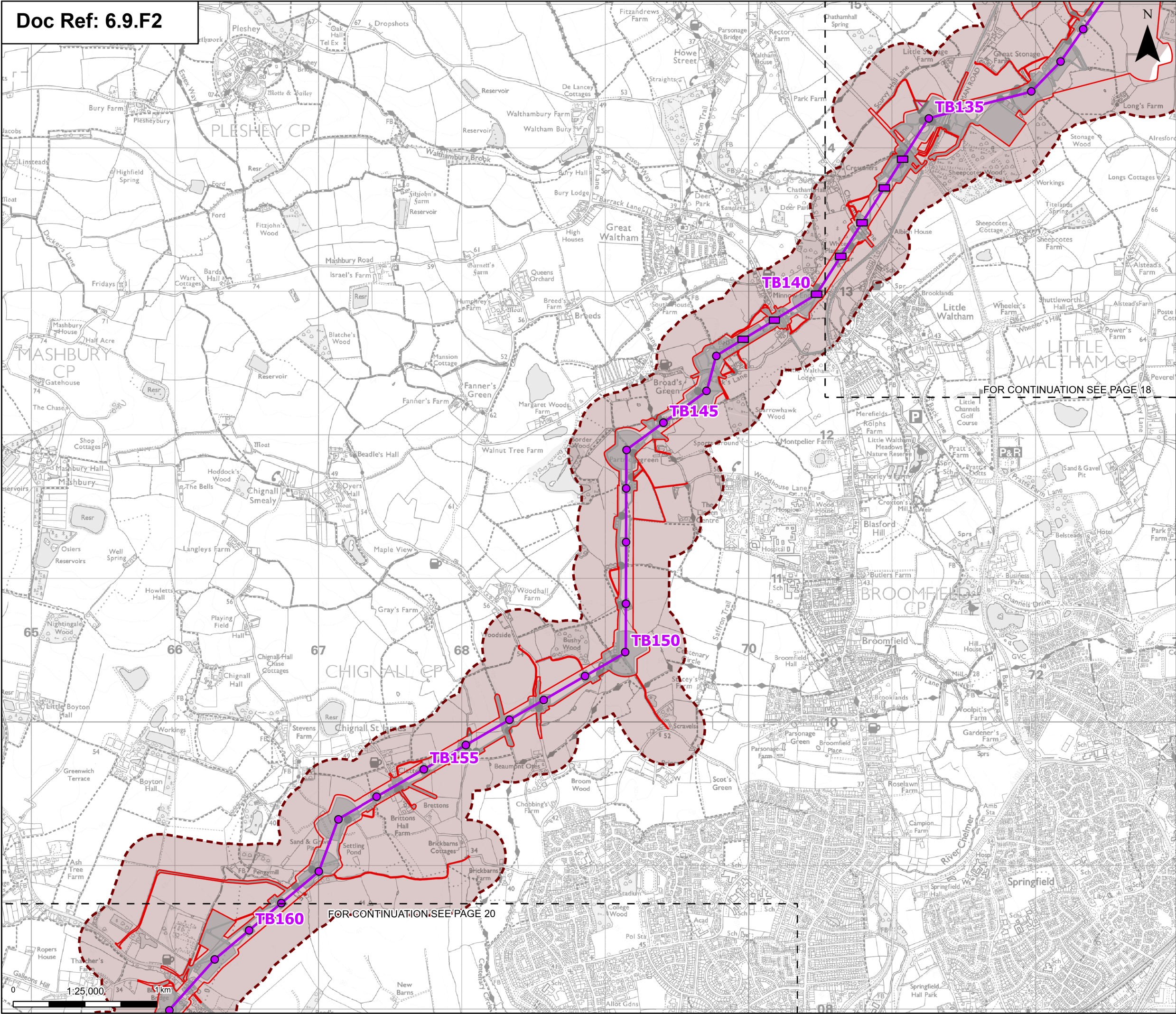
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Order limits

Proposed project design details

Discipline specific constraints

Bedrock geology

Proposed low height pylon location

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

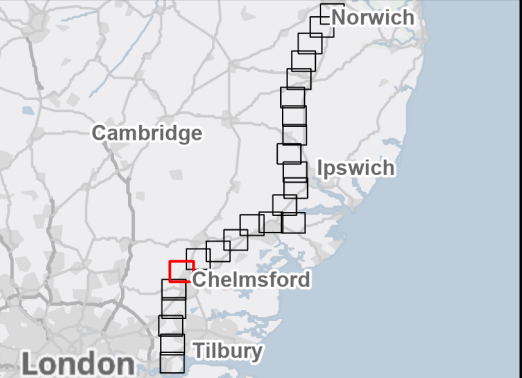
Other temporary and permanent construction and operational works

250 m Study Area

London Clay Formation - Clay, Silt And Sand

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

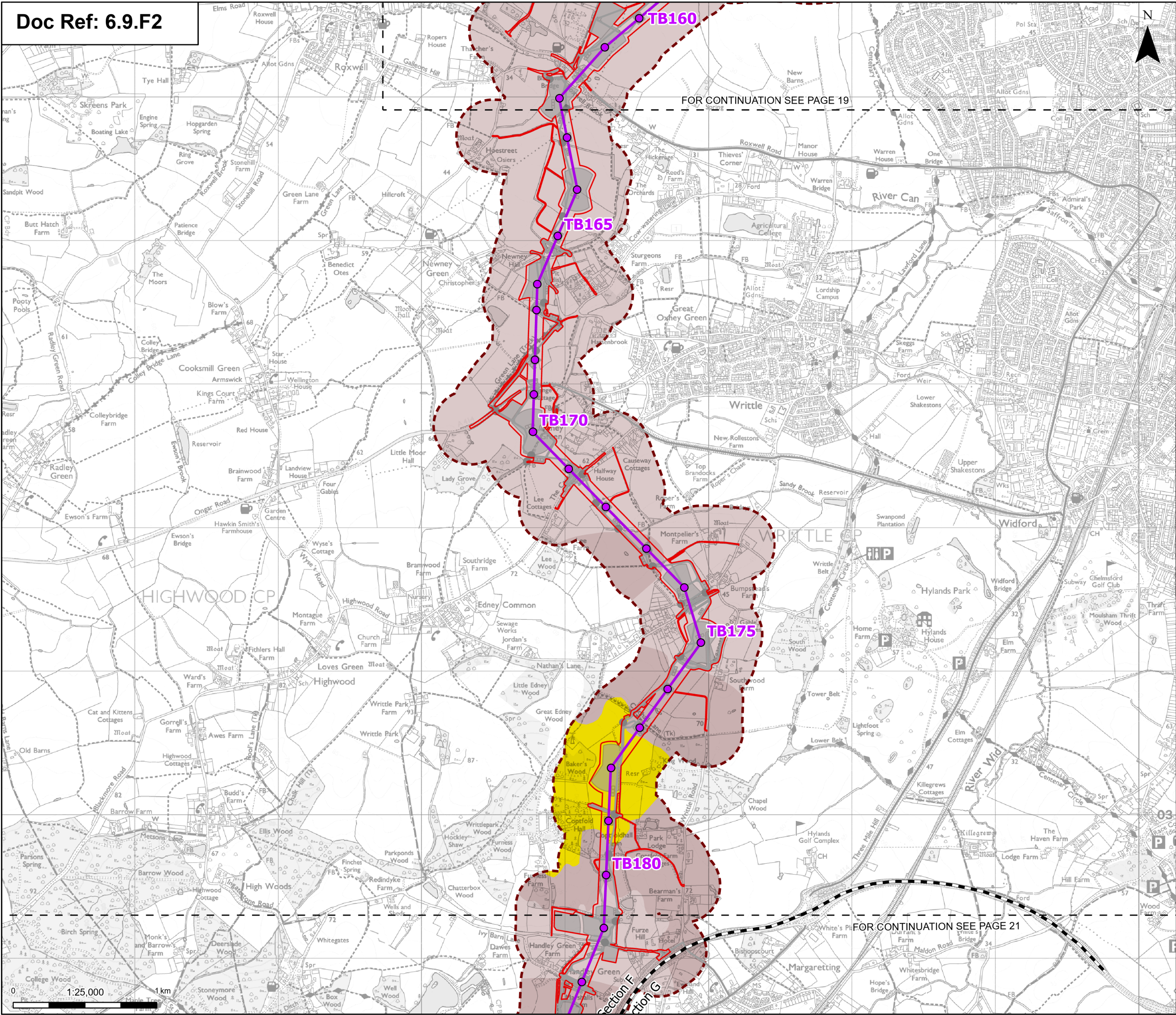
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Figure 9.2 - Contaminated Land,
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Suitability Description:
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Order limits

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

250 m Study Area

Bedrock geology

London Clay Formation - Clay, Silt And Sand

Claygate Member - Clay, Silt And Sand

Bagshot Formation - Sand

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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Title:

Figure 9.2 - Contaminated Land, Geology and Hydrogeology - Bedrock Geology

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Suitability Description:

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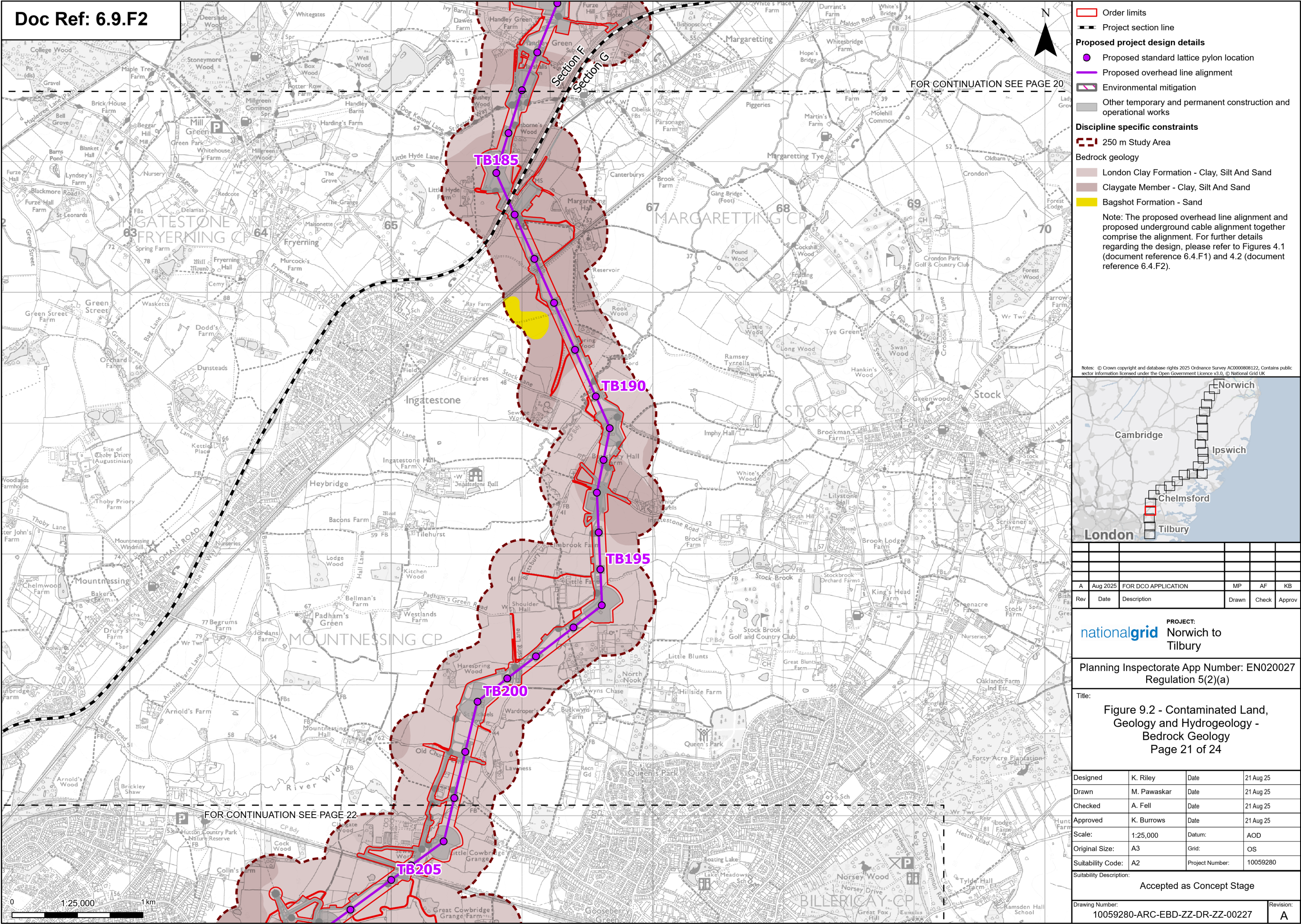
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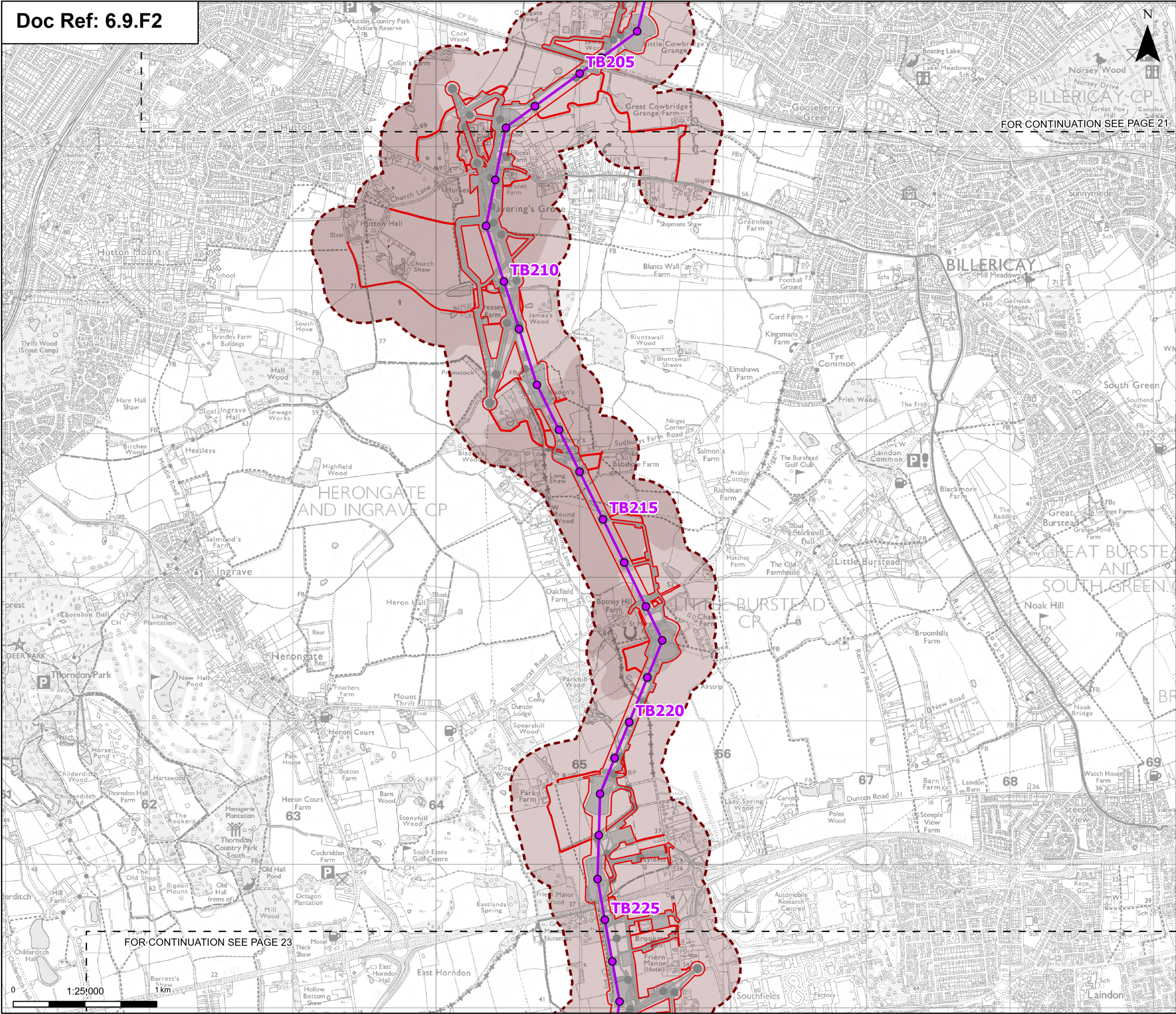
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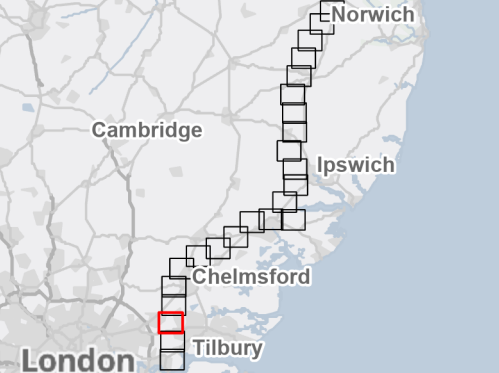
- Order limits
- Proposed project design details
- Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Other temporary and permanent construction and operational works

- Discipline specific constraints
- 250 m Study Area

- Bedrock geology
- London Clay Formation - Clay, Silt And Sand
 - Claygate Member - Clay, Silt And Sand

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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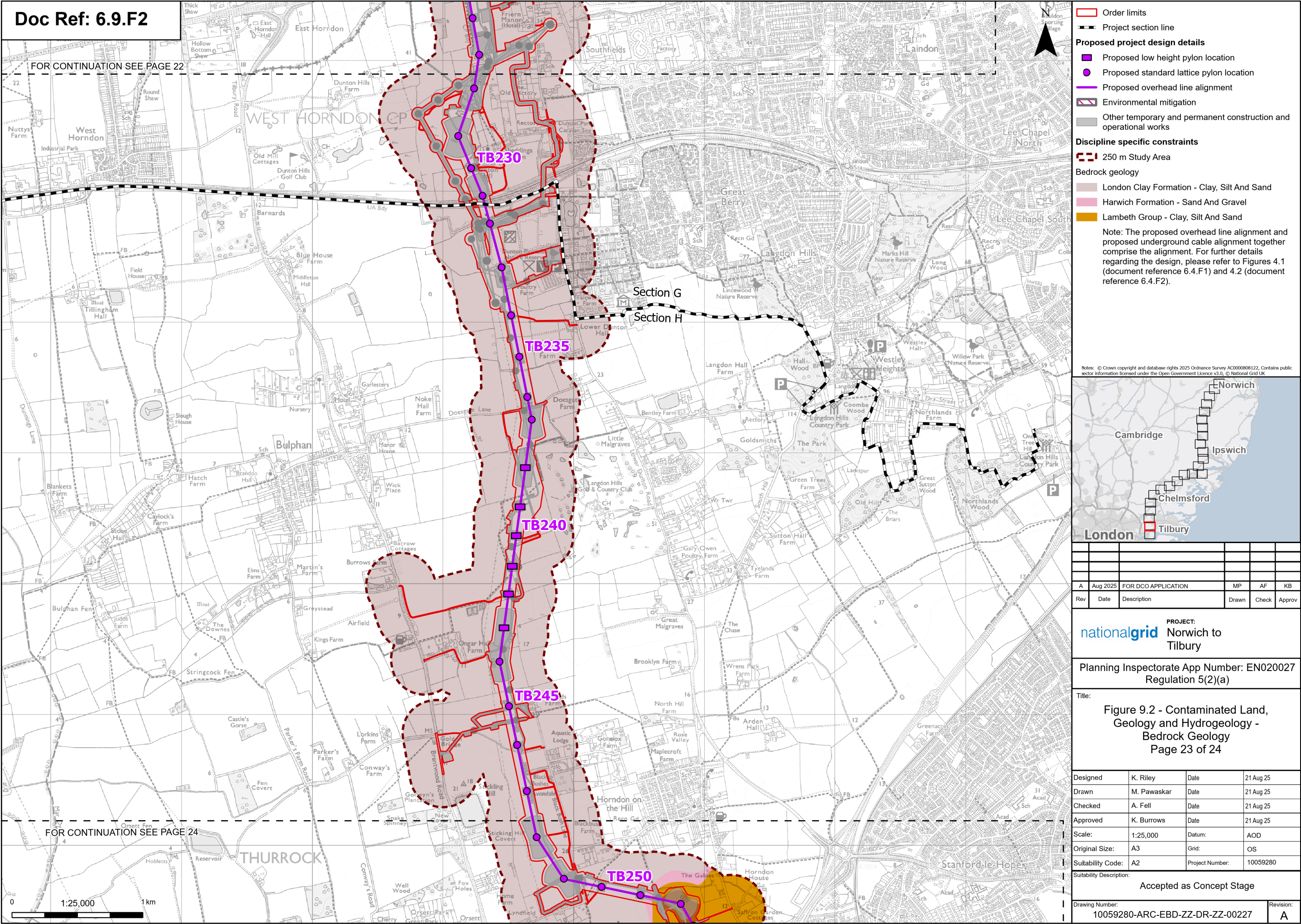
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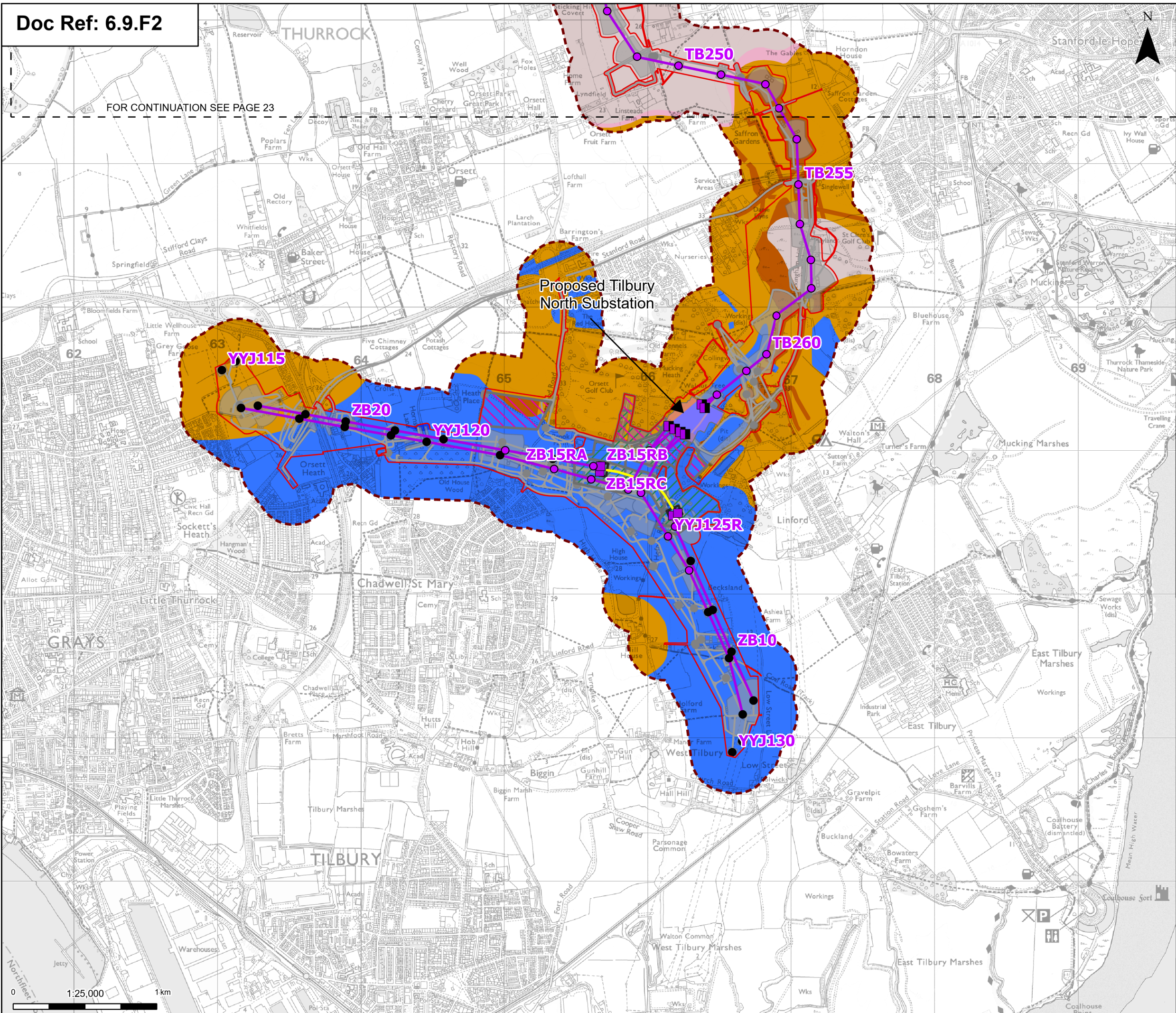
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Order limits

Proposed project design details

Discipline specific constraints

Bedrock geology

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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

250 m Study Area

Thanet Formation - Sand

London Clay Formation - Clay, Silt And Sand

Lambeth Group - Sand, Silt And Clay

Harwich Formation - Sand And Gravel

Lambeth Group - Clay, Silt And Clay

Cambridge

Ipswich

Chelmsford

Tilbury

London

Norwich

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