

Norwich to Tilbury

Volume 6: Environmental Statement

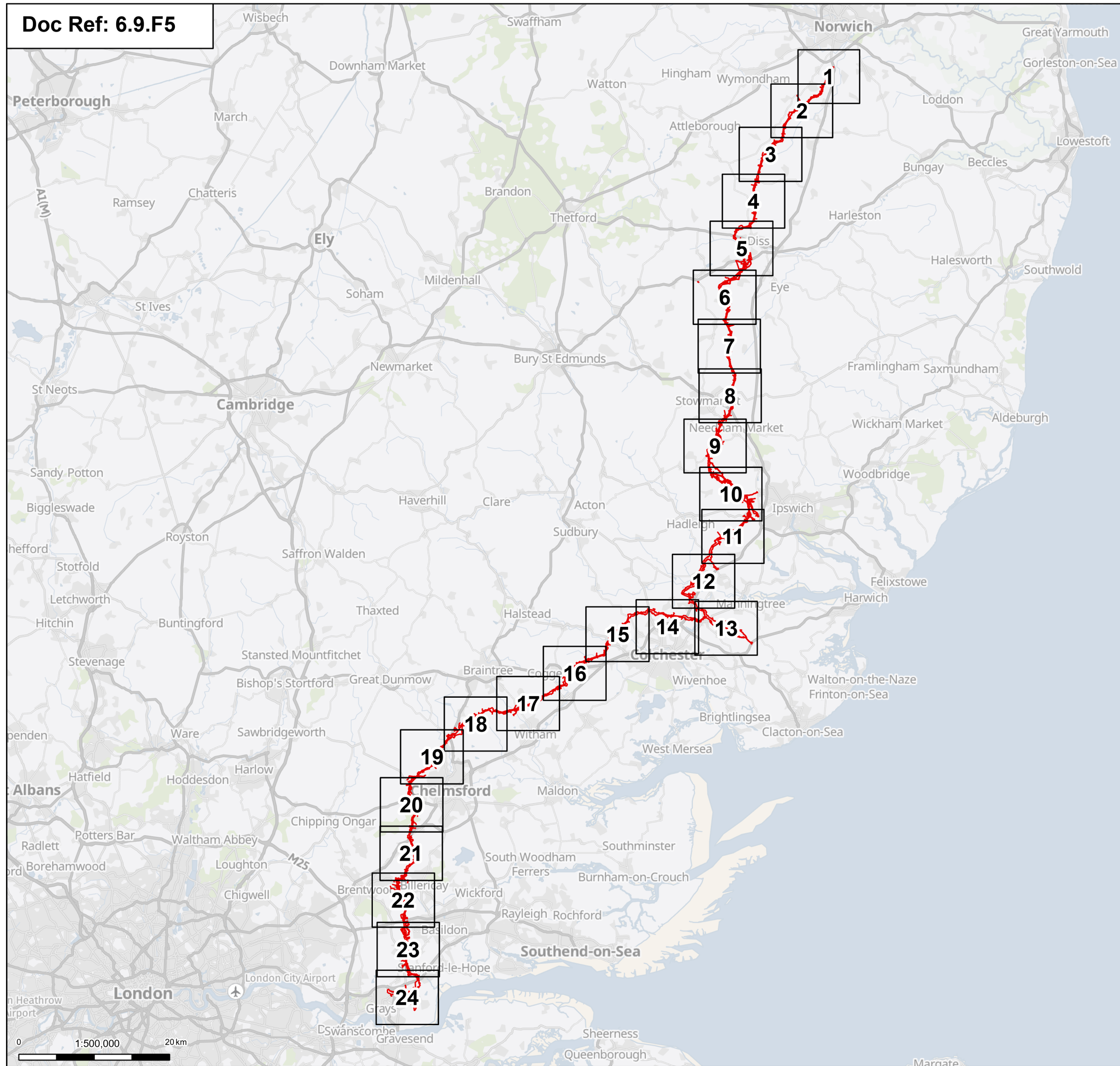
Document: 6.9.F5 Environmental Statement Figure 9.5 - Hydrogeology and Hydrogeological Receptors

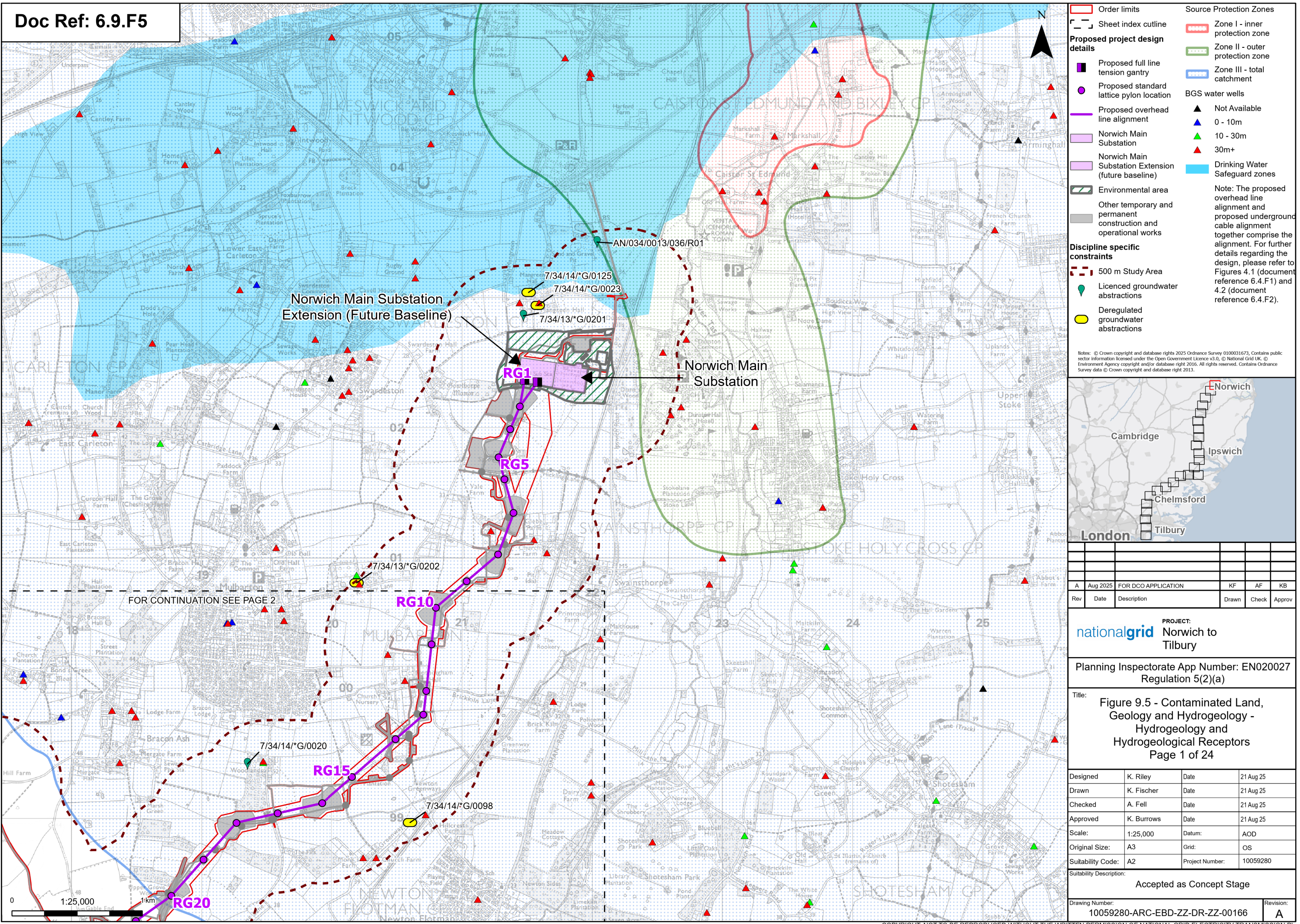
Final Issue A

August 2025

Planning Inspectorate Reference: EN020027

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





Order limits

Sheet index outline

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

500 m Study Area

Licensed groundwater abstractions

Deregulated groundwater abstractions

Source Protection Zones

Zone I - inner protection zone

Zone II - outer protection zone

Zone III - total catchment

BGS water wells

Not Available

0 - 10m

10 - 30m

30m+

Drinking Water Safeguard zones

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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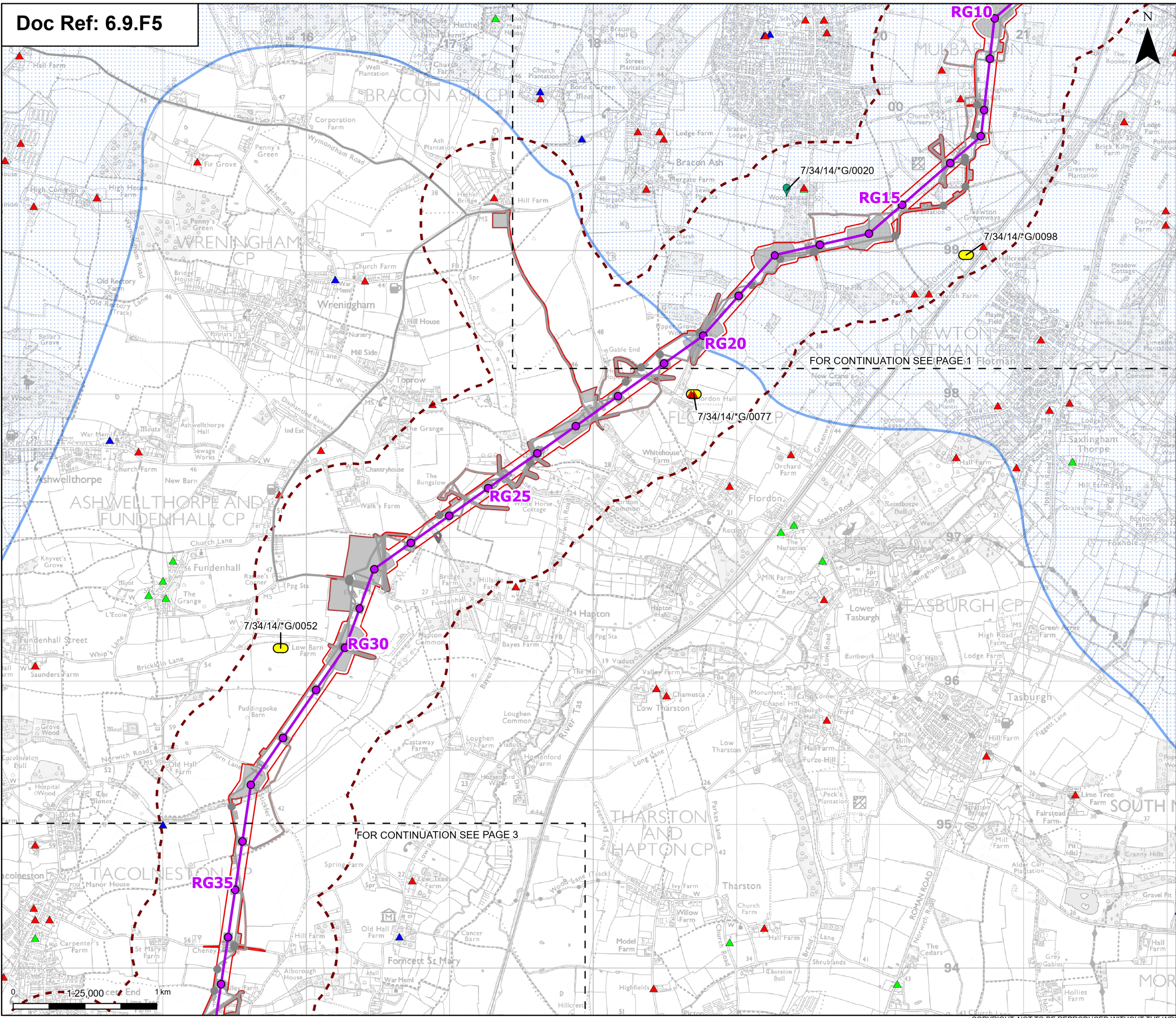
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Figure 9.5 - Contaminated Land, Geology and Hydrogeology - Hydrogeology and Hydrogeological Receptors
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Designed	K. Riley	Date	21 Aug 25
Drawn	K. Fischer	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00166	Revision: A
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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

Licensed groundwater abstractions

Deregulated groundwater abstractions

Source Protection Zones

Zone III - total catchment

BGS water wells

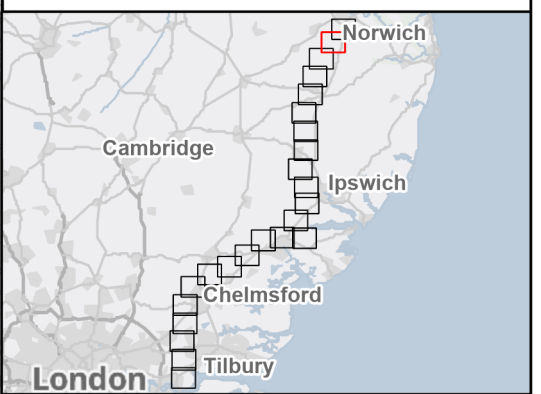
0 - 10m

10 - 30m

30m+

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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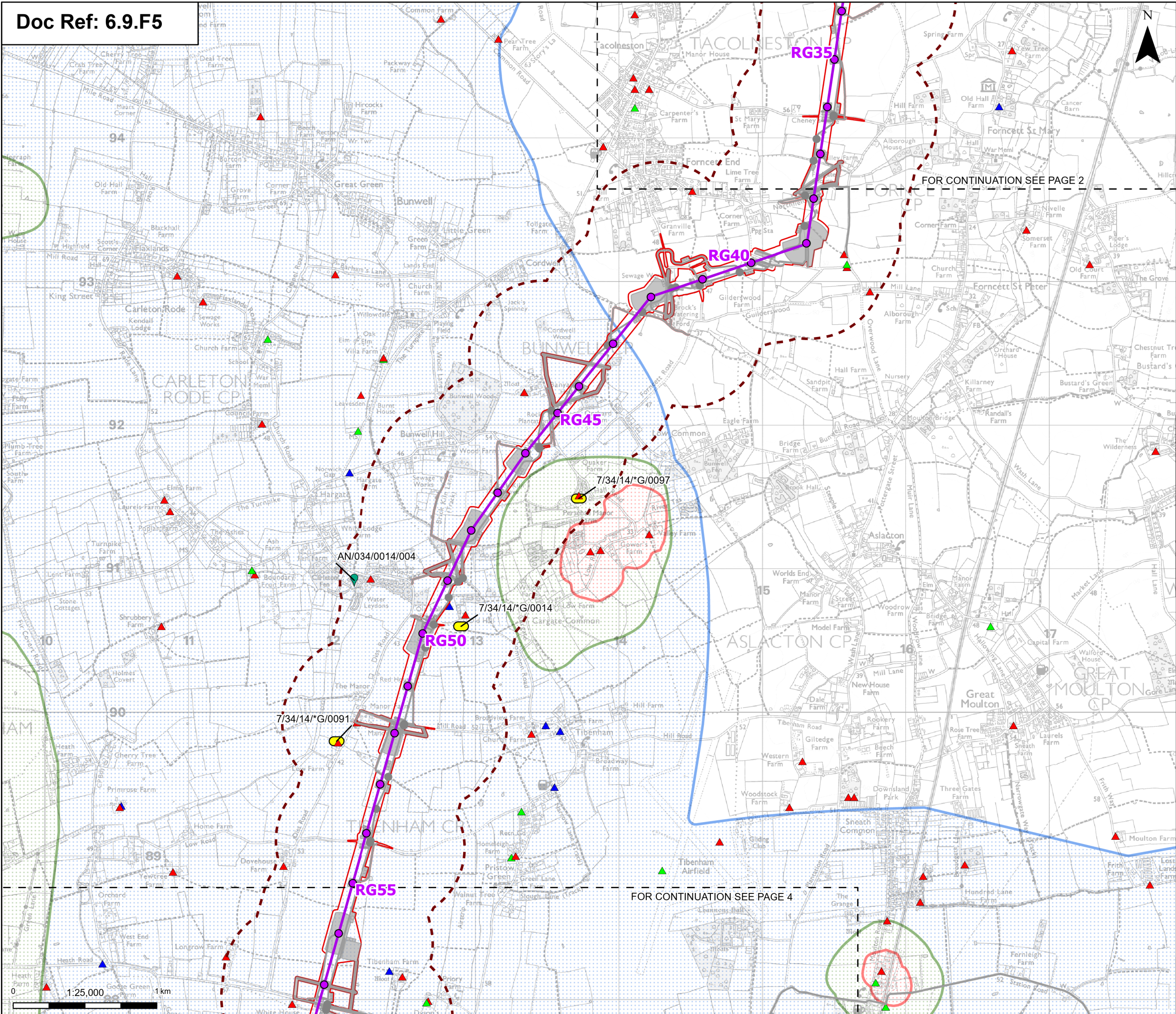
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Zone II - outer protection zone

Zone III - total catchment

BGS water wells

0 - 10m

10 - 30m

30m+

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Tilbury

London

Norwich

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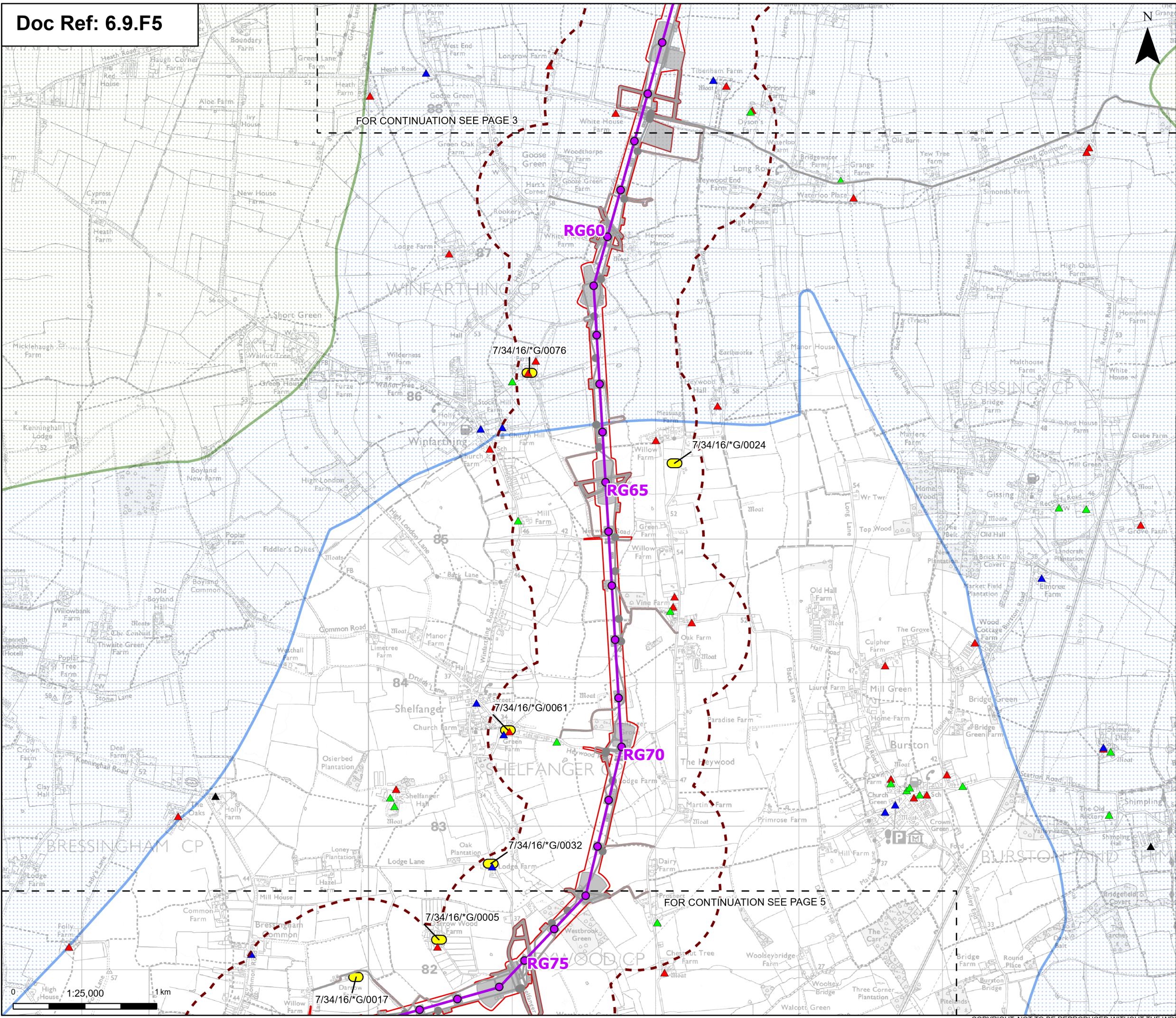
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Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

500 m Study Area

Deregulated groundwater abstractions

Zone II - outer protection zone

Zone III - total catchment

BGS water wells

Not Available

0 - 10m

10 - 30m

30m+

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Tilbury

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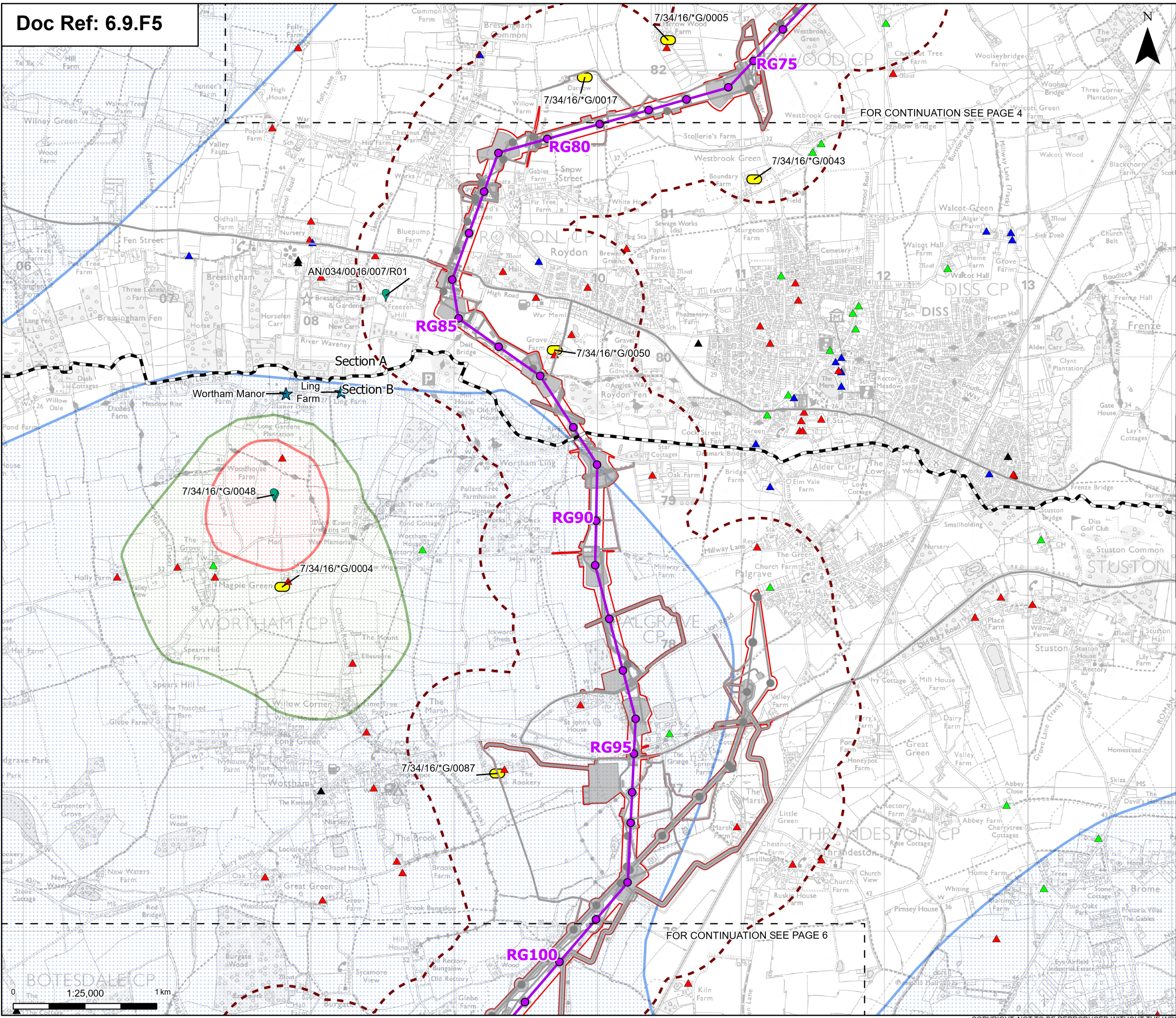
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Proposed standard lattice pylon location

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Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

500 m Study Area

Private Water Supplies - Babergh Mid Suffolk

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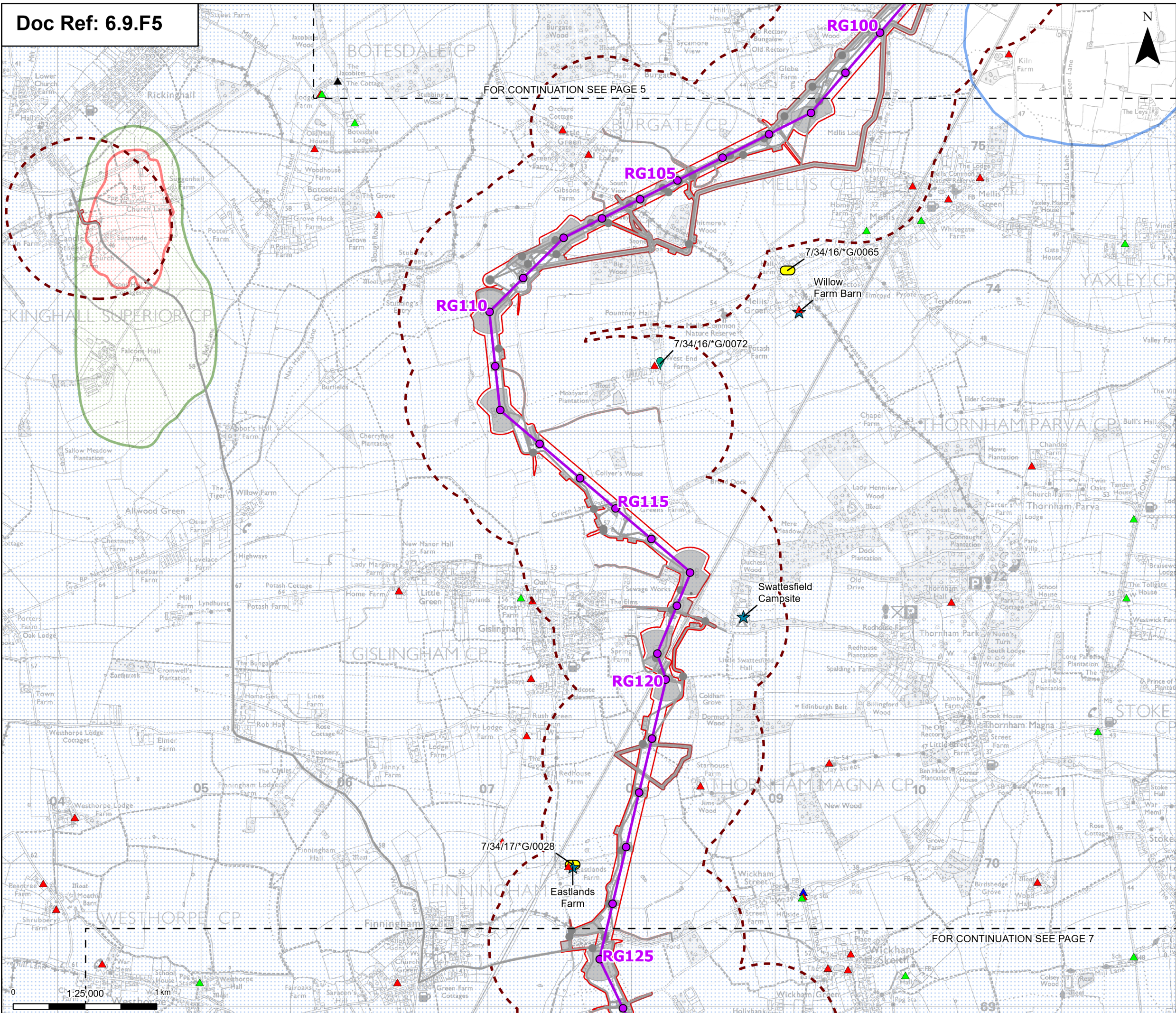
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500 m Study Area

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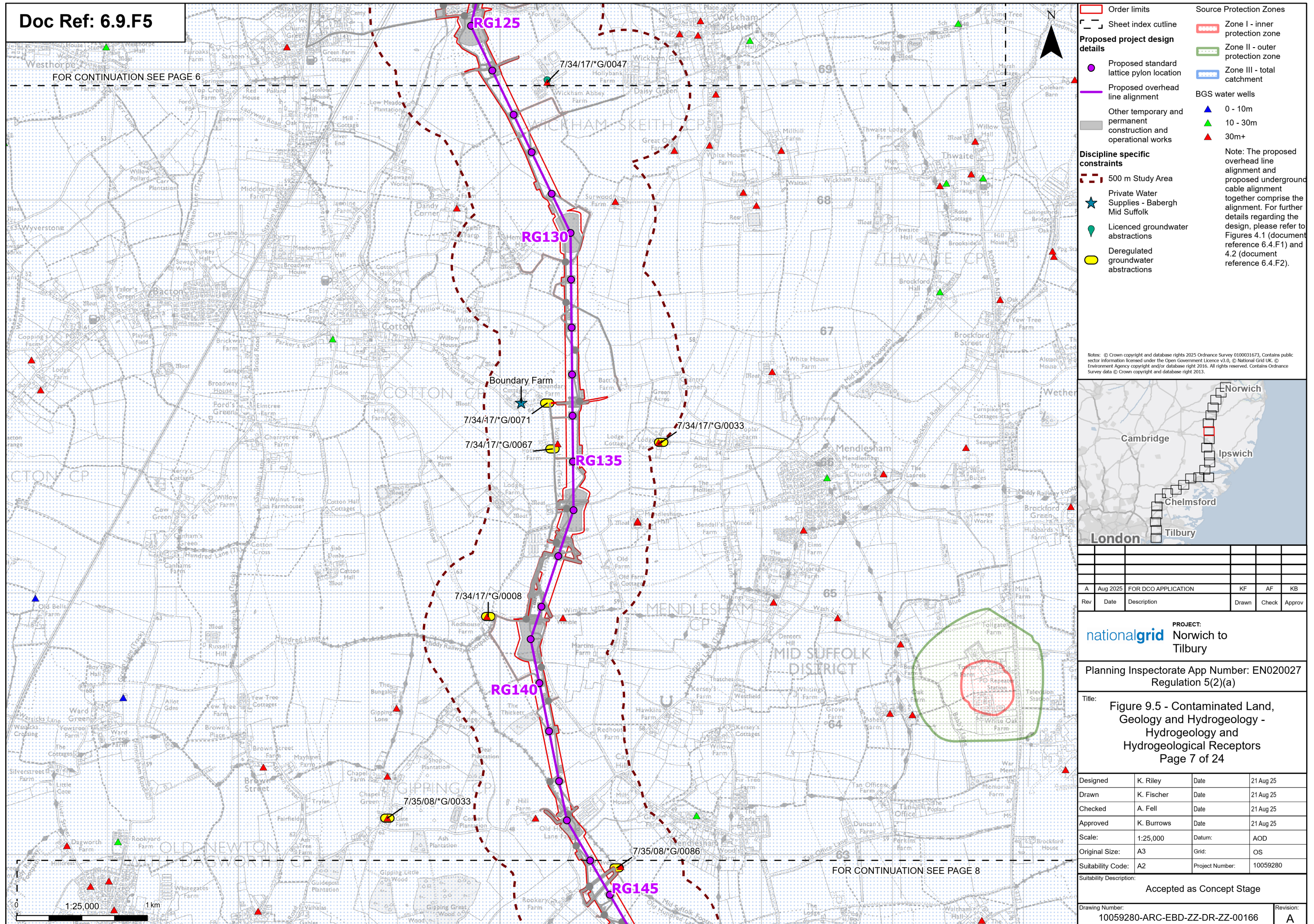
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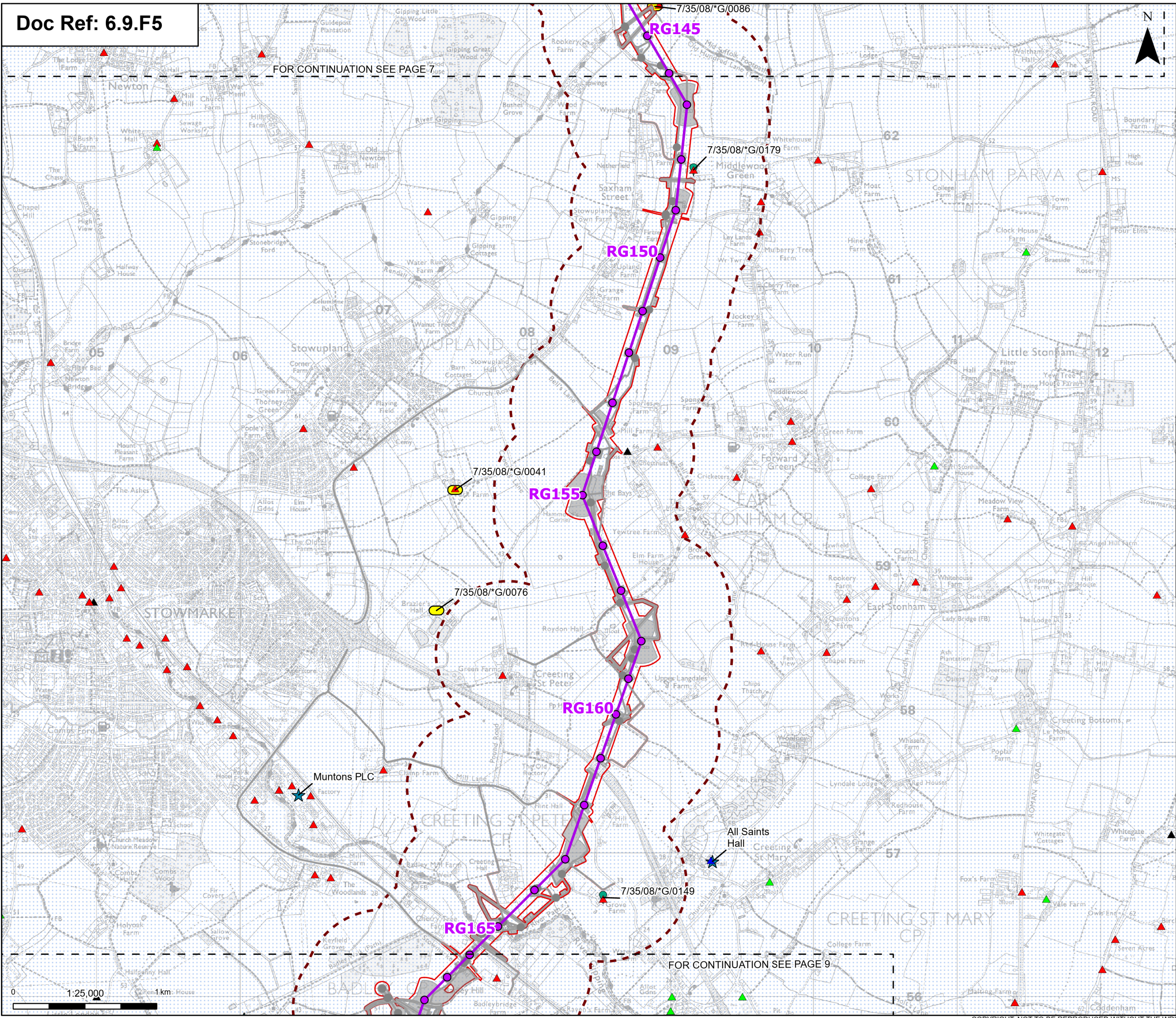
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Licensed groundwater abstractions

Deregulated groundwater abstractions

Source Protection Zones

Zone III - total catchment

BGS water wells

Not Available

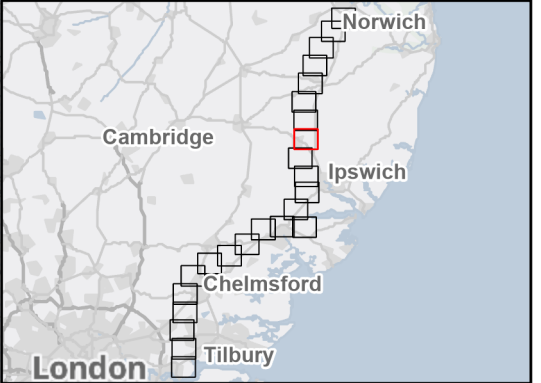
0 - 10m

10 - 30m

30m+

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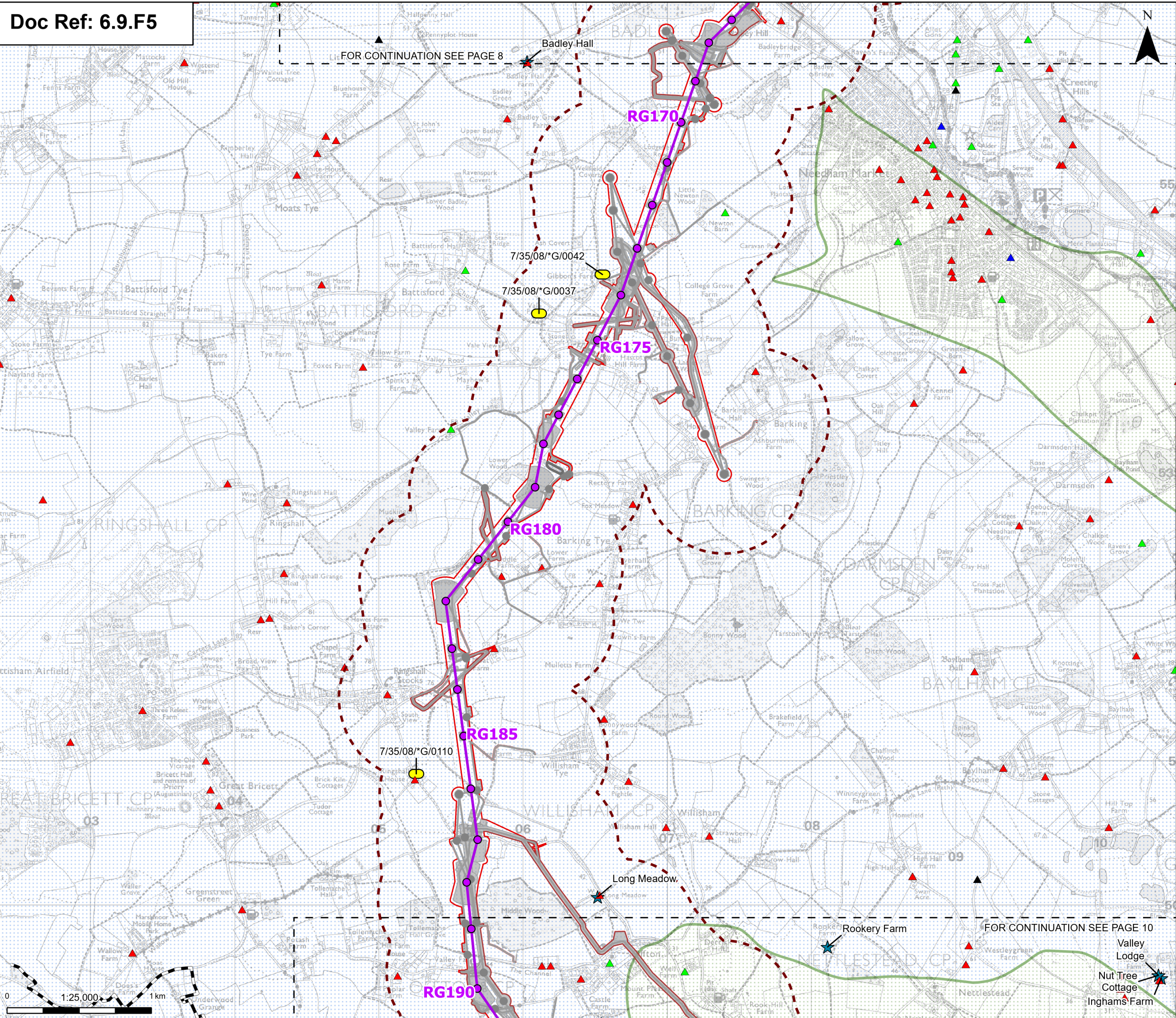
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500 m Study Area

Private Water Supplies - Babergh Mid Suffolk

Deregulated groundwater abstractions

Source Protection Zones

Zone I - inner protection zone

Zone II - outer protection zone

Zone III - total catchment

BGS water wells

Not Available

0 - 10m

10 - 30m

30m+

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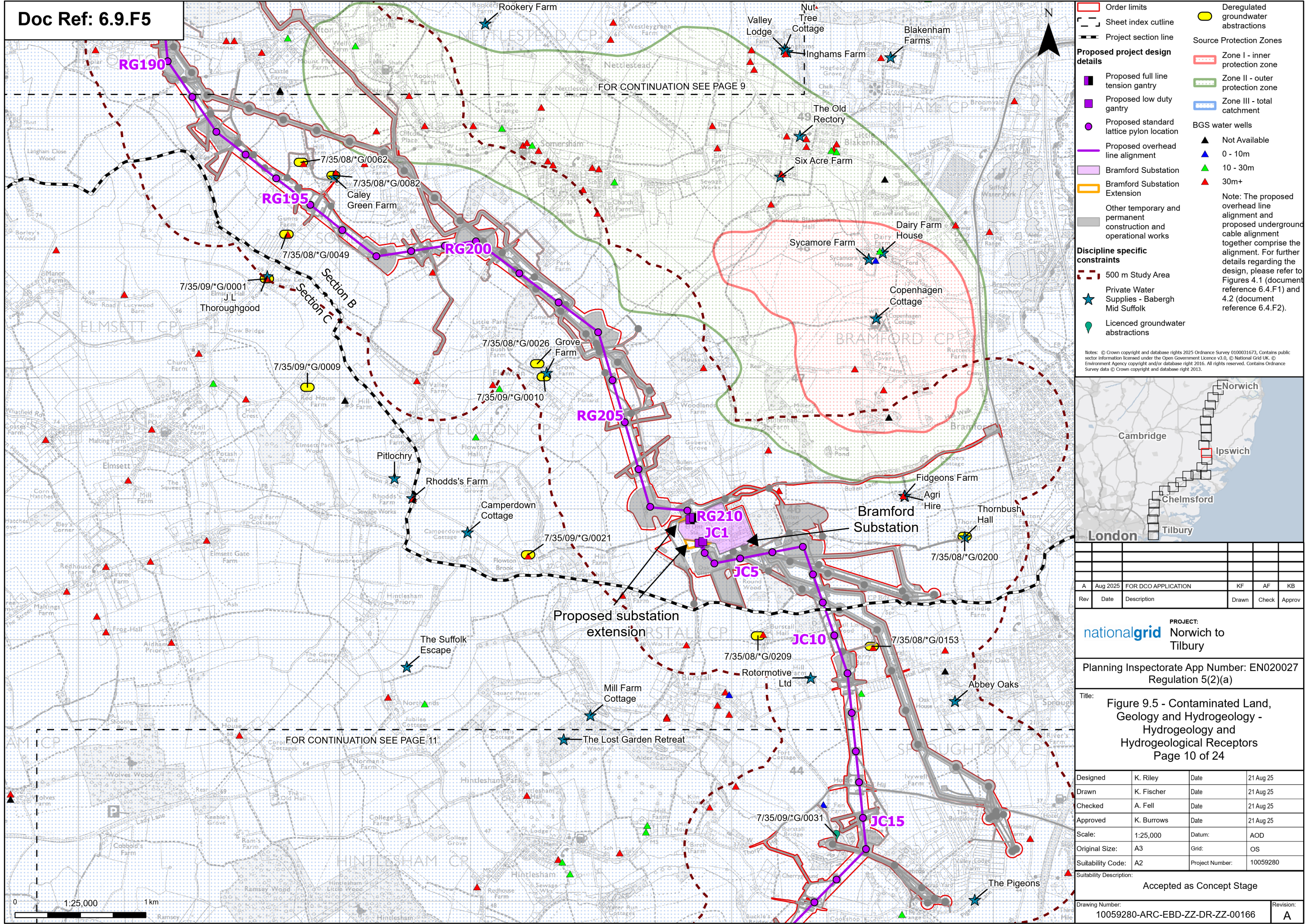
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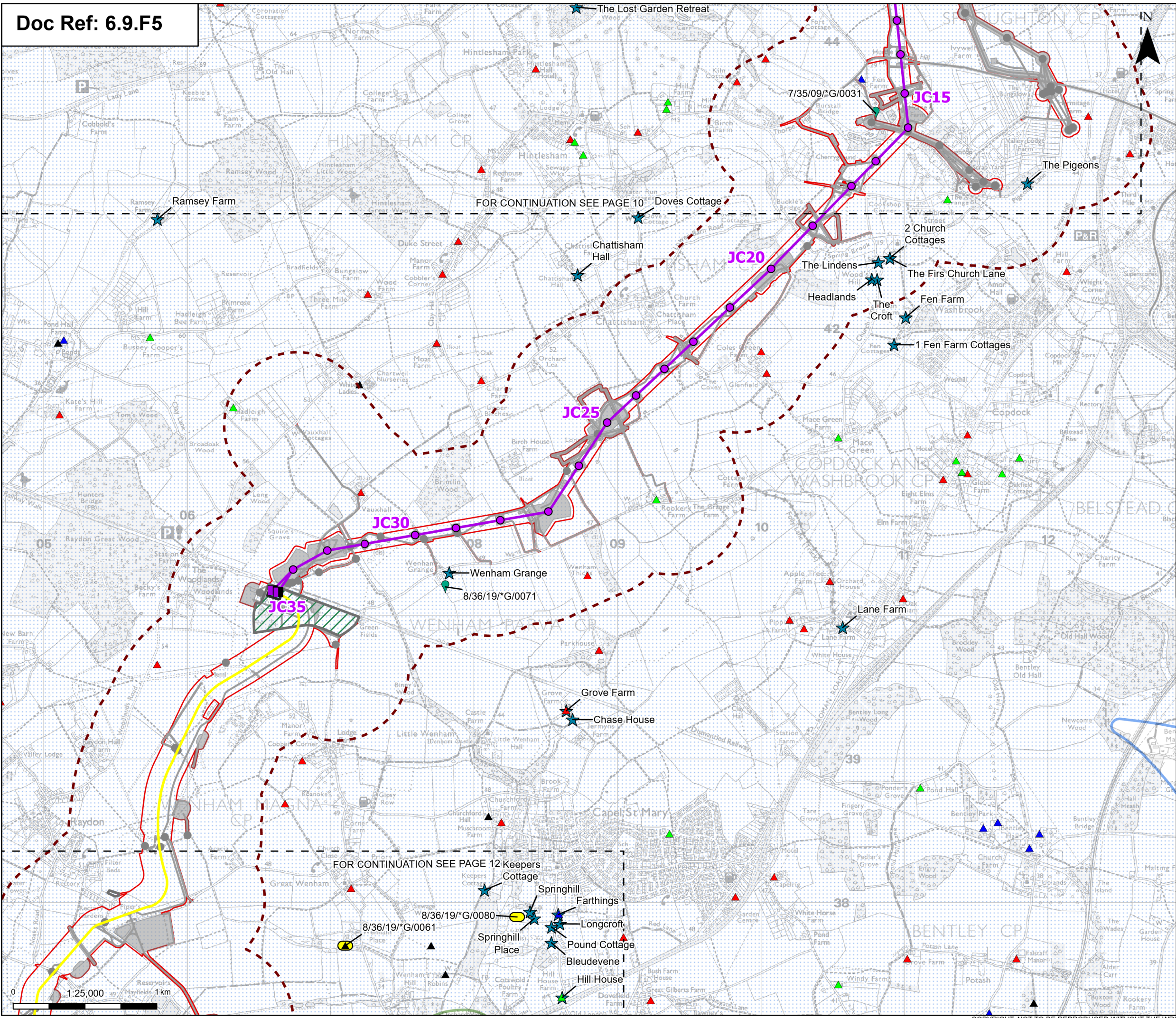
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- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction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

Discipline specific constraints

- 500 m Study Area
- Private Water Supplies - Babergh Mid Suffolk

Licenced groundwater abstractions

Deregulated groundwater abstractions

Source Protection Zones

- Zone II - outer protection zone
- Zone III - total catchment

BGS water wells

- Not Available
- 0 - 10m
- 10 - 30m
- 30m+

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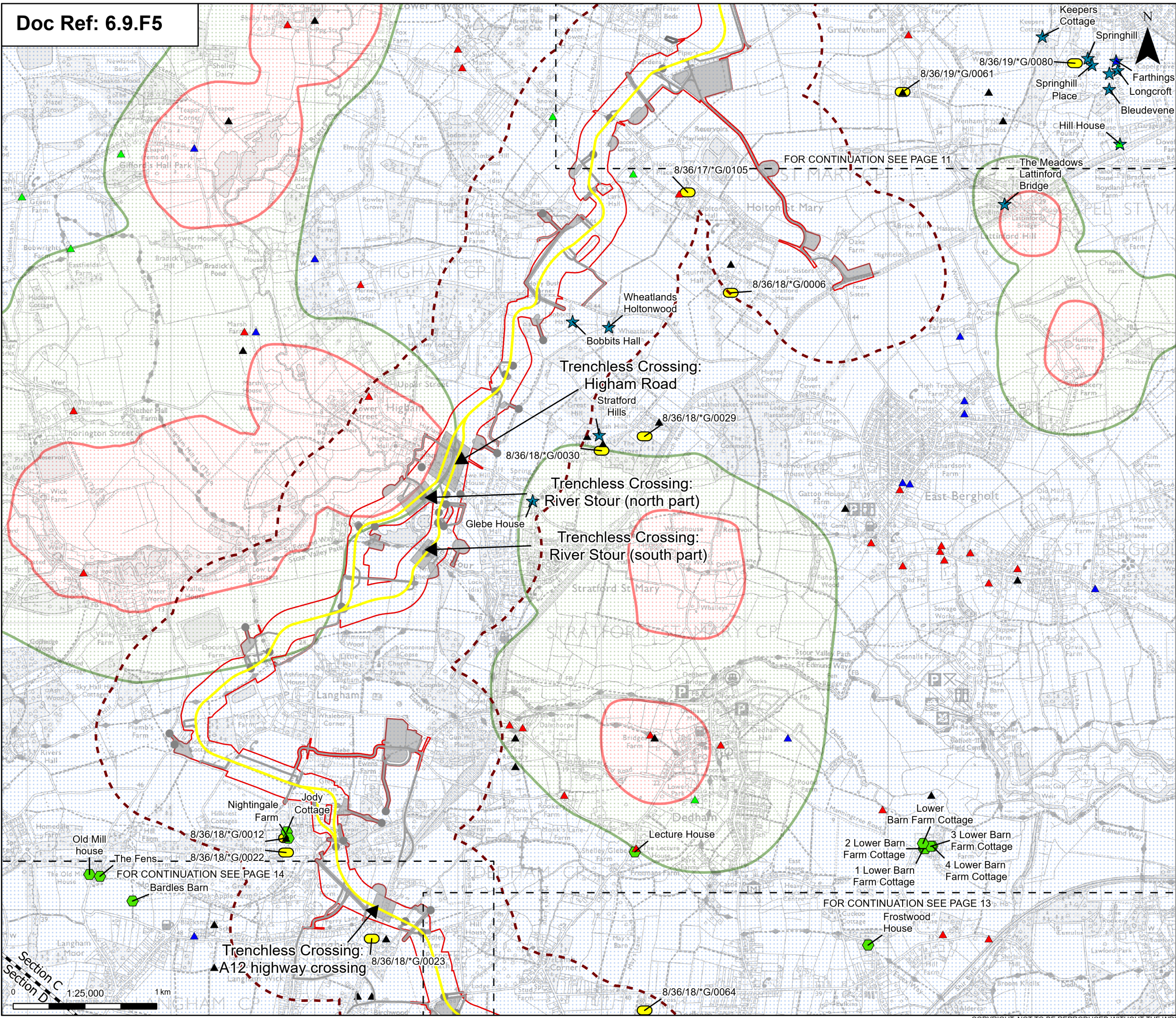
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Environmental mitigation

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Discipline specific constraints

500 m Study Area

Private Water Supplies - Babergh Mid Suffolk

Private water supplies - Colchester

Deregulated groundwater abstractions

Source Protection Zones

Zone I - inner protection zone

Zone II - outer protection zone

Zone III - total catchment

BGS water wells

Not Available

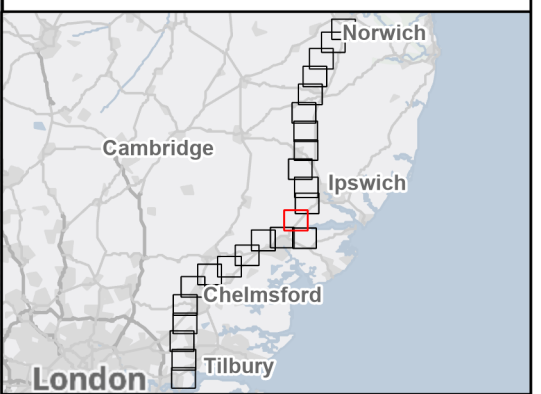
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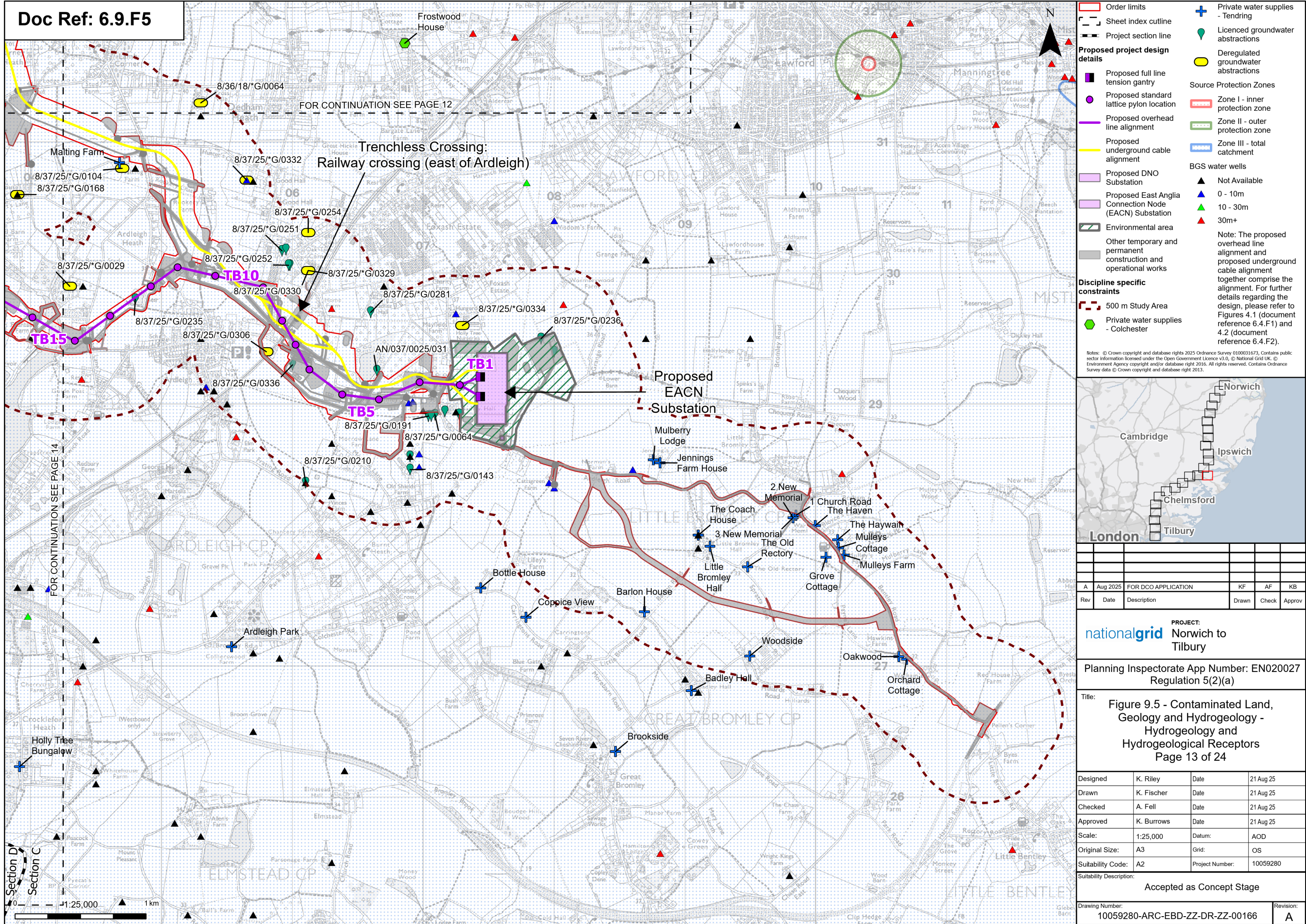
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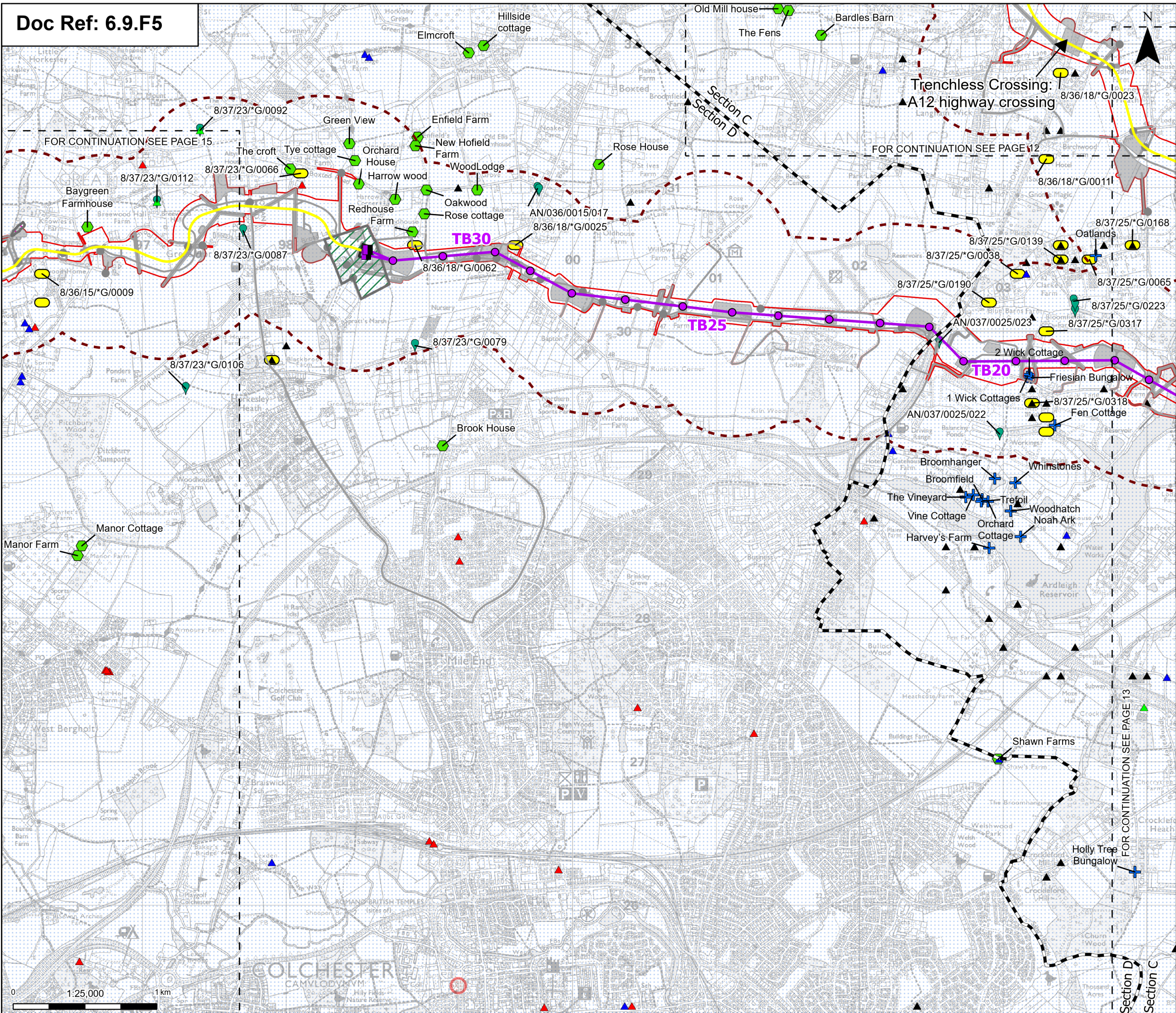
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Private water supplies - Tending

Licenced groundwater abstractions

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Source Protection Zones

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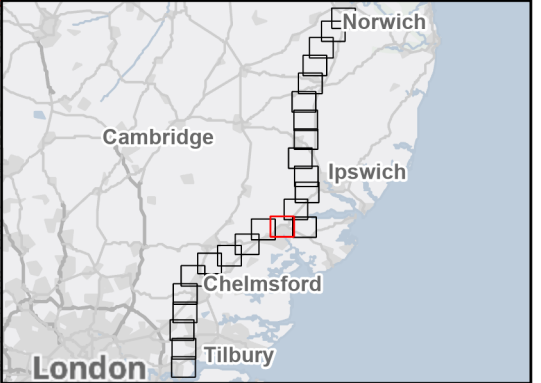
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Discipline specific constraints

500 m Study Area

Private water supplies - Colchester

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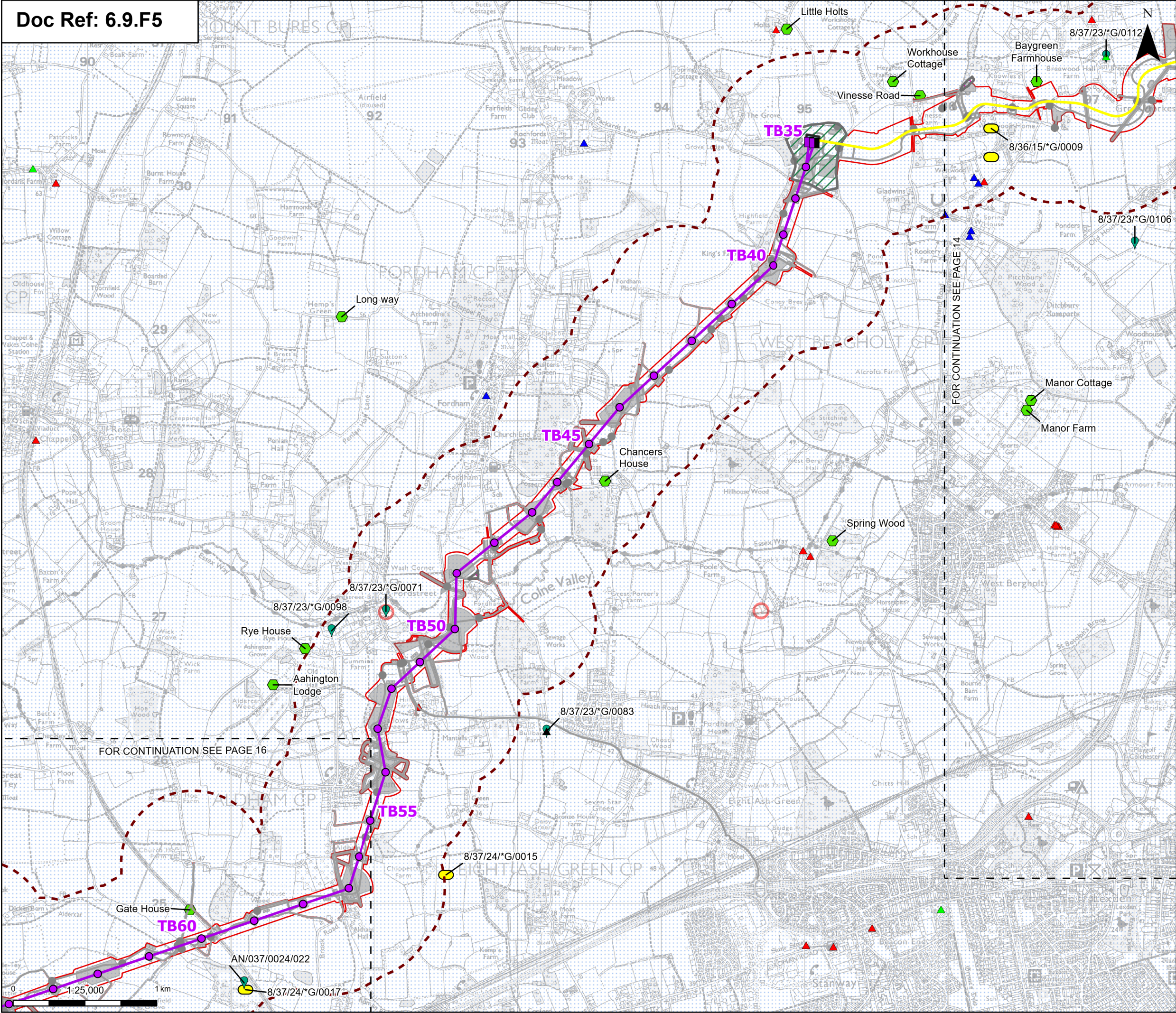
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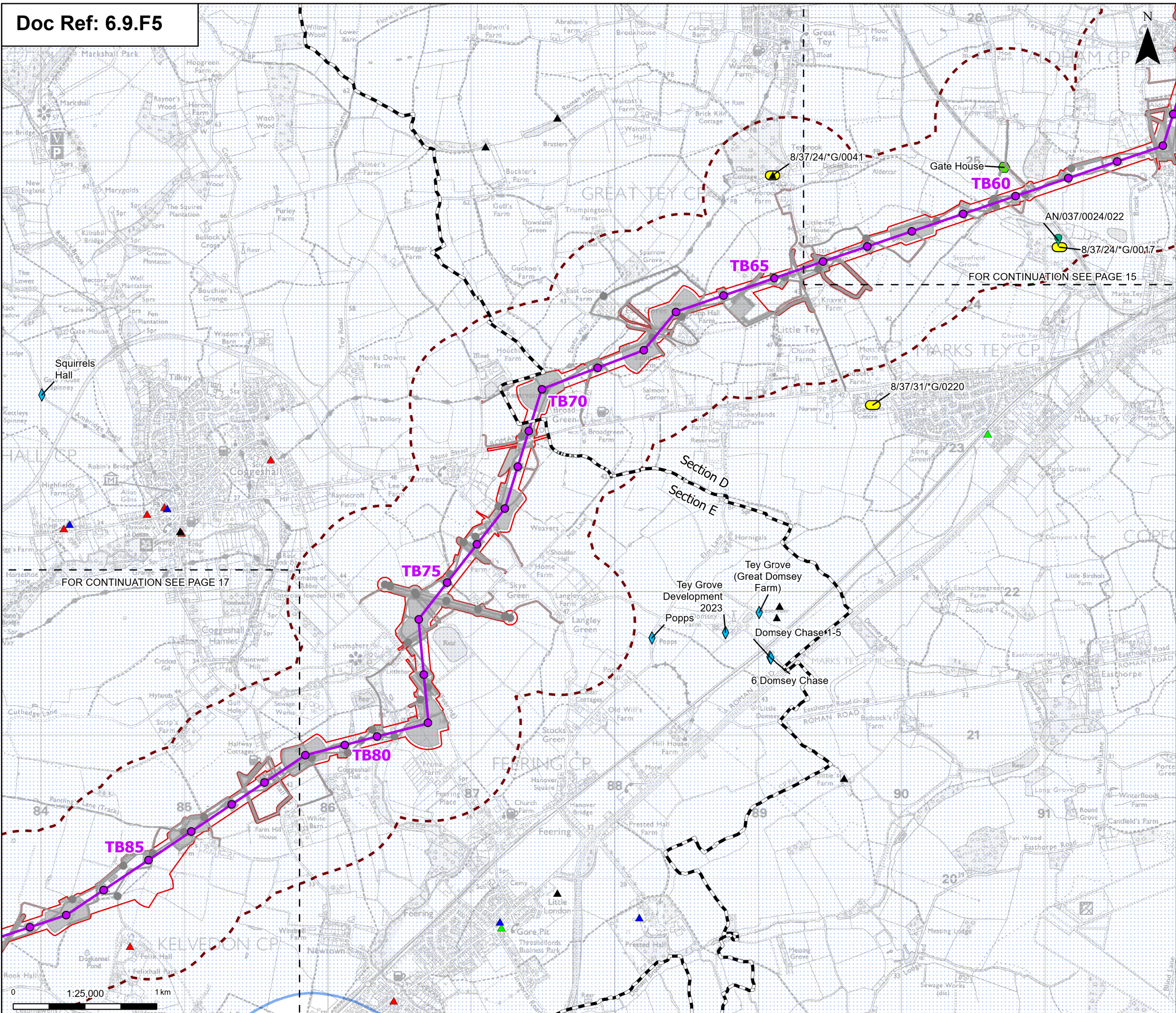
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Regulation 5(2)(a)

Title:
Figure 9.5 - Contaminated Land, Geology and Hydrogeology - Hydrogeology and Hydrogeological Receptors
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Designed	K. Riley	Date	21 Aug 25
Drawn	K. Fischer	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number:	10059280-ARC-EBD-ZZ-DR-ZZ-00166	Revision:	A
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Order limits

Sheet index cutline

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

500 m Study Area

Private water supplies - Braintree

Private water supplies - Colchester

Licensed groundwater abstractions

Deregulated groundwater abstractions

Source Protection Zones

Zone III - total catchment

BGS water wells

Not Available

0 - 10m

10 - 30m

30m+

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 Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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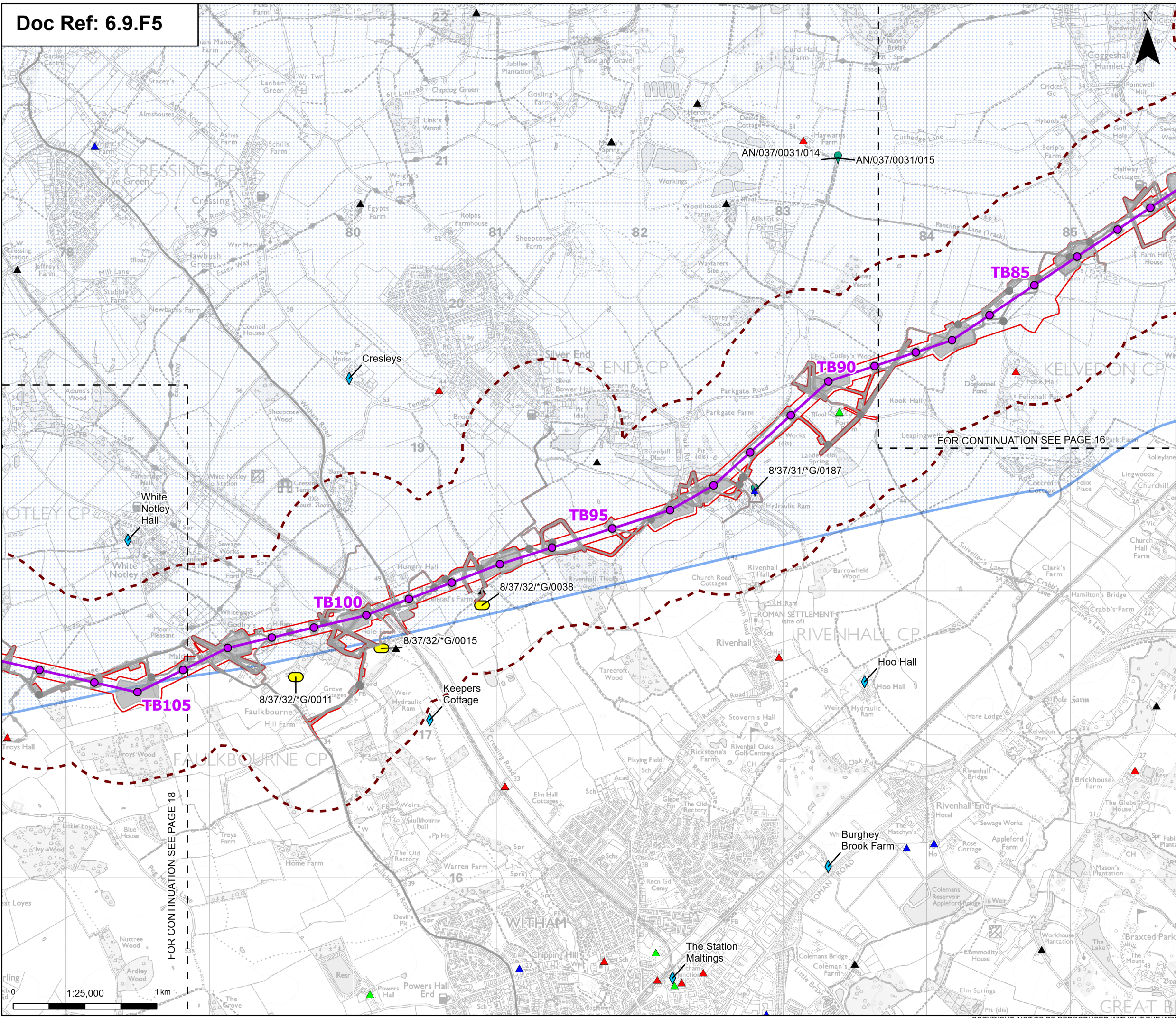
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Order limits

Sheet index outline

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

500 m Study Area

Private water supplies - Braintree

Licensed groundwater abstractions

Deregulated groundwater abstractions

Source Protection Zones

Zone III - total catchment

BGS water wells

Not Available

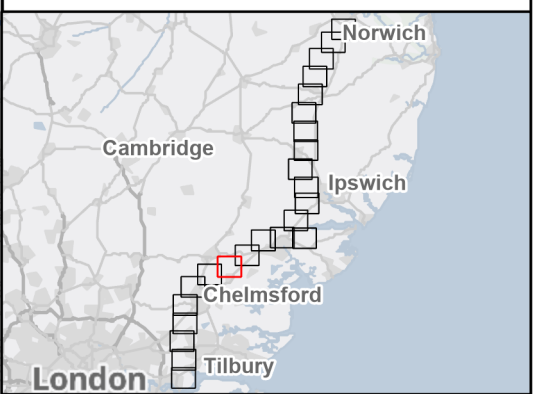
0 - 10m

10 - 30m

30m+

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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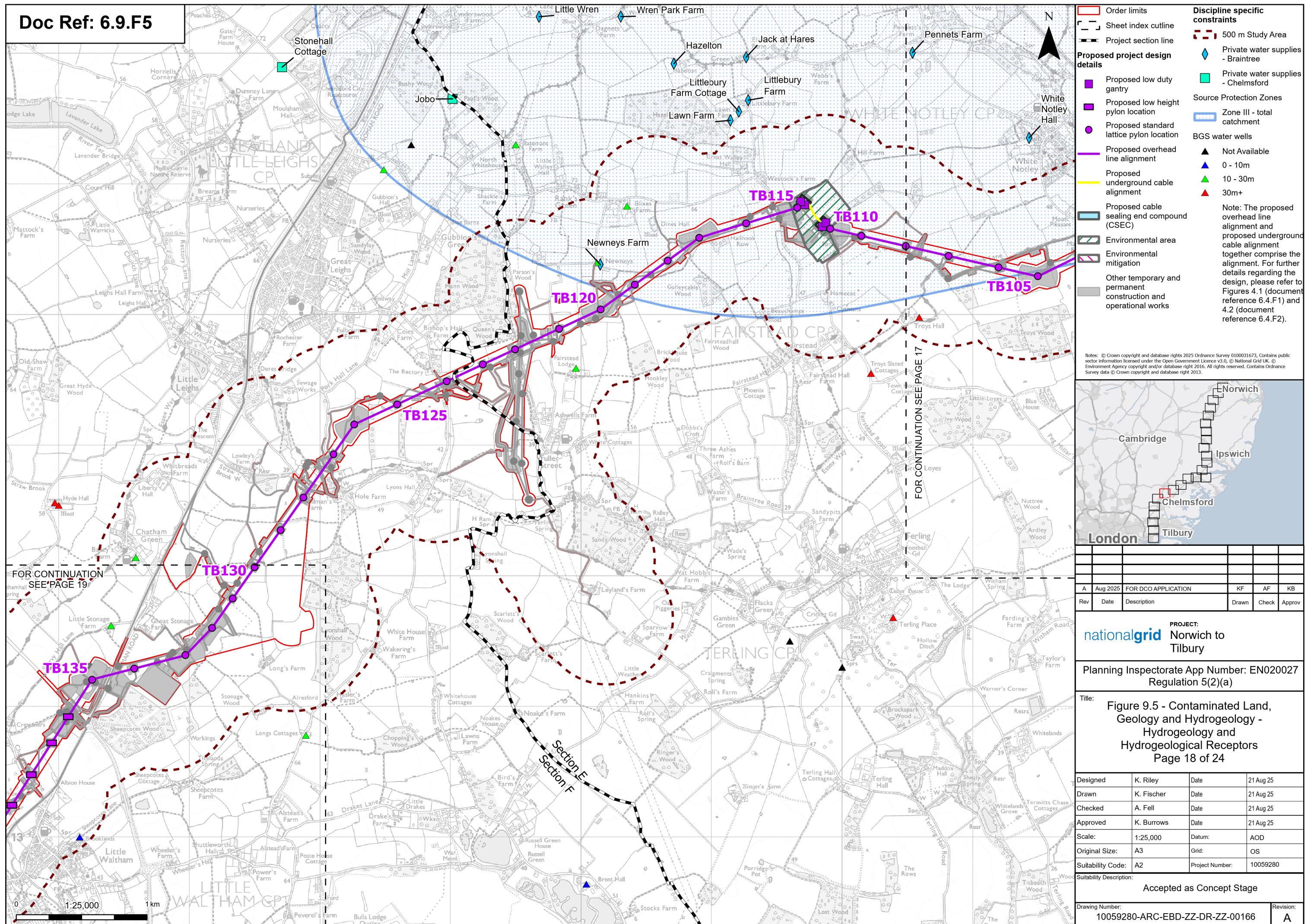
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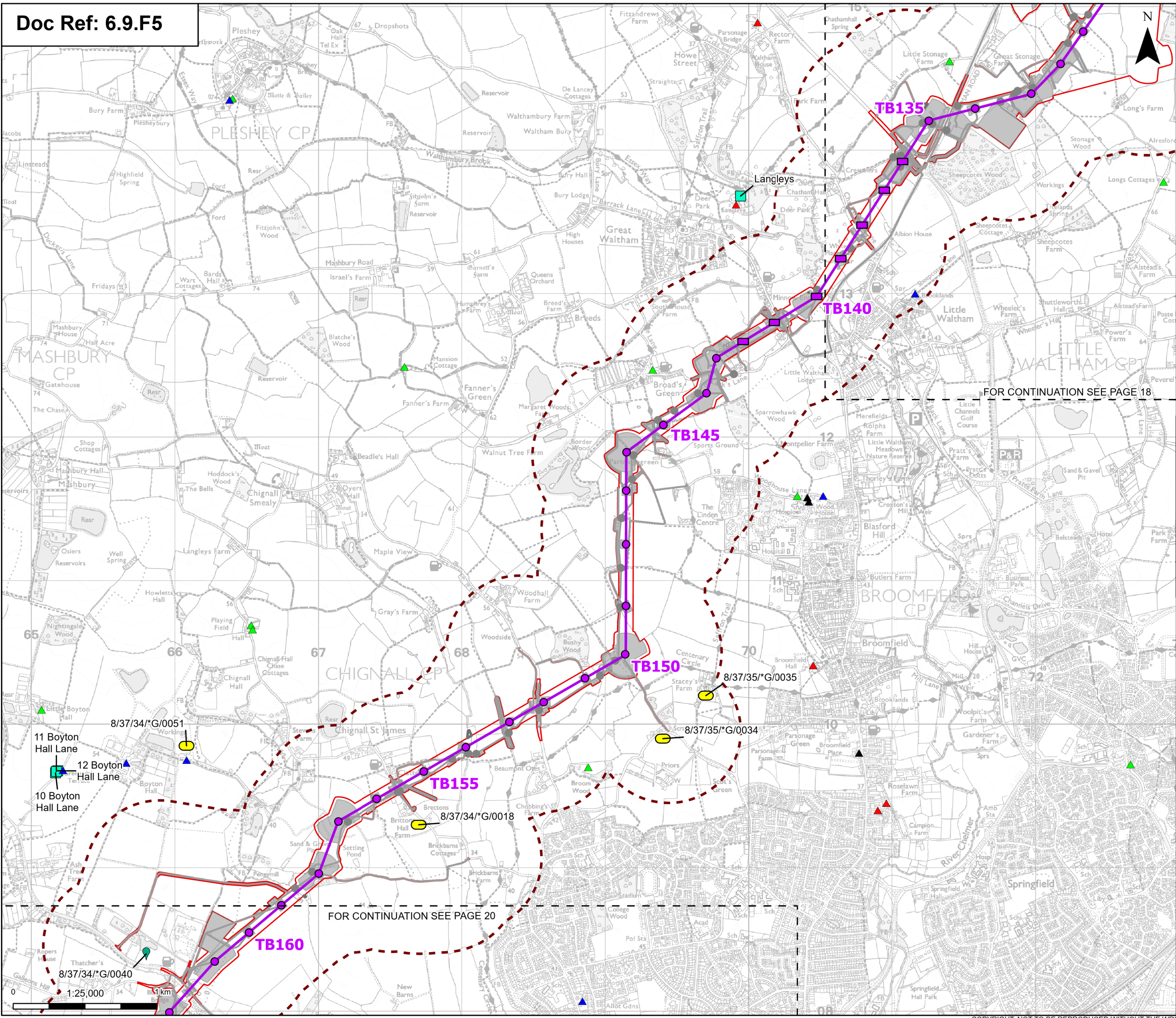
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Order limits

Sheet index outline

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

500 m Study Area

Private water supplies - Chelmsford

Licenced groundwater abstractions

Deregulated groundwater abstractions

BGS water wells

Not Available

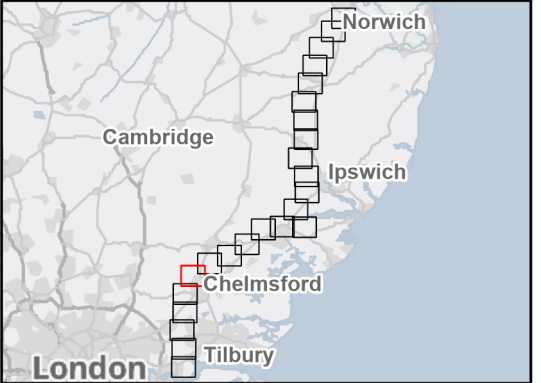
0 - 10m

10 - 30m

30m+

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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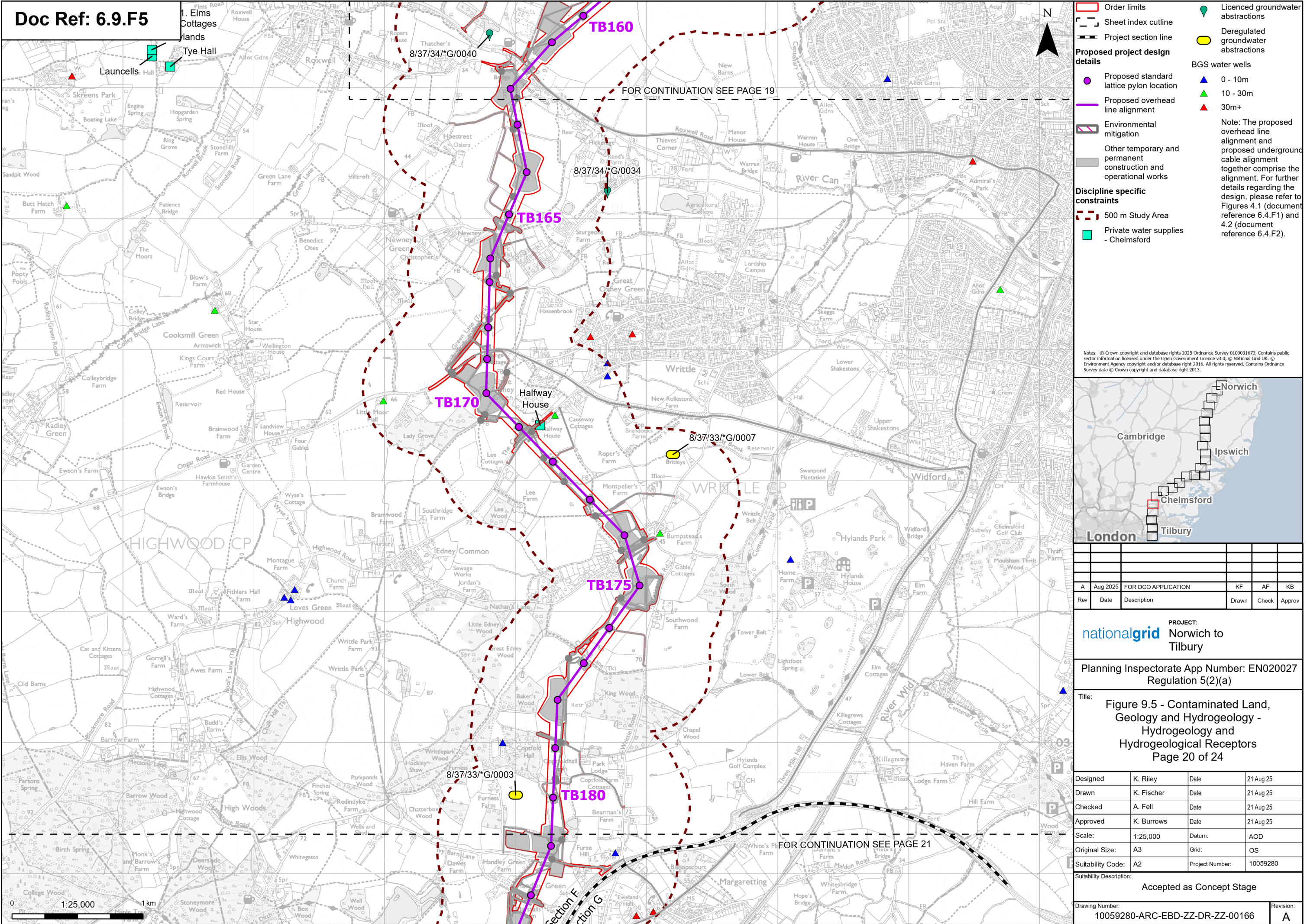
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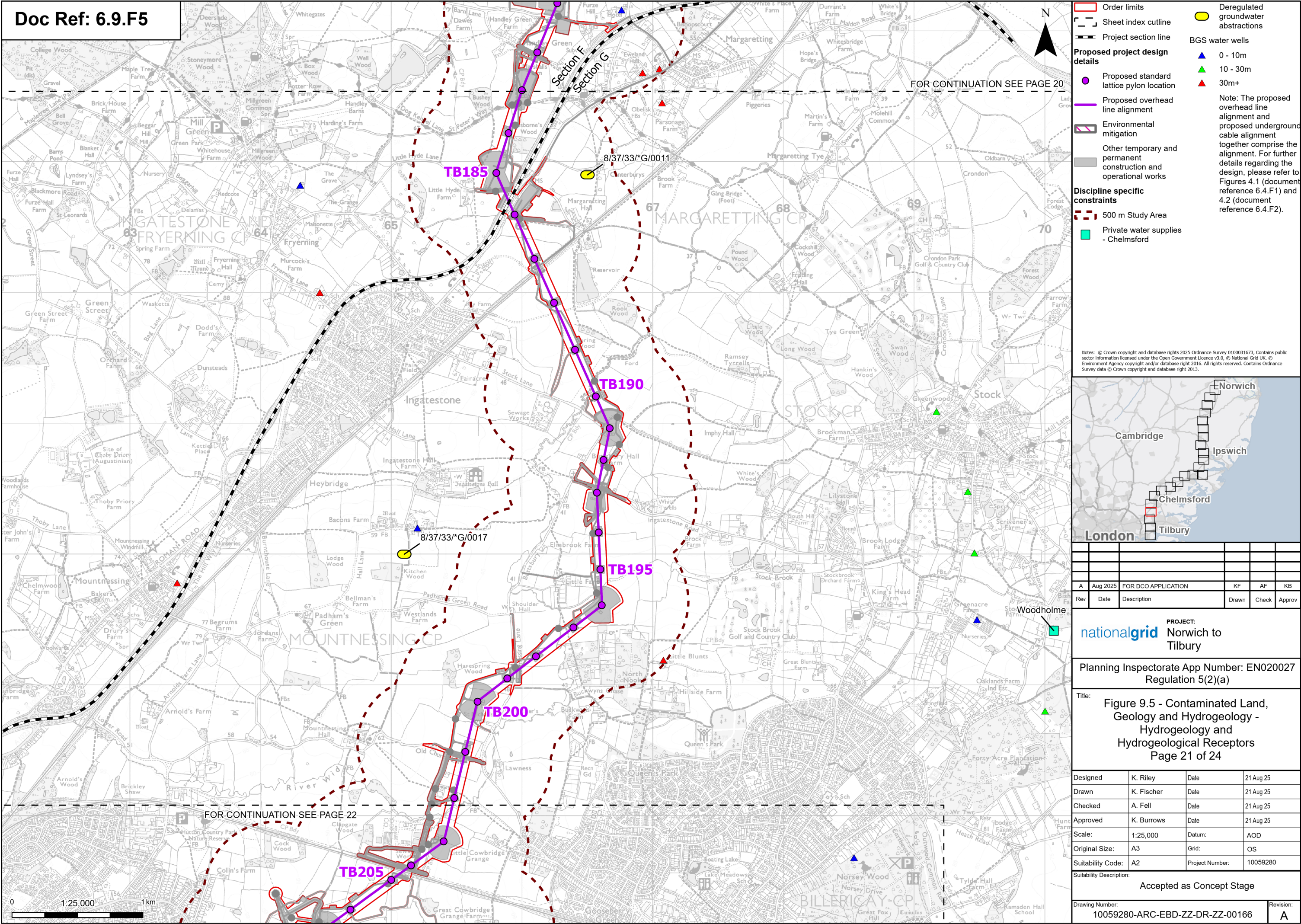
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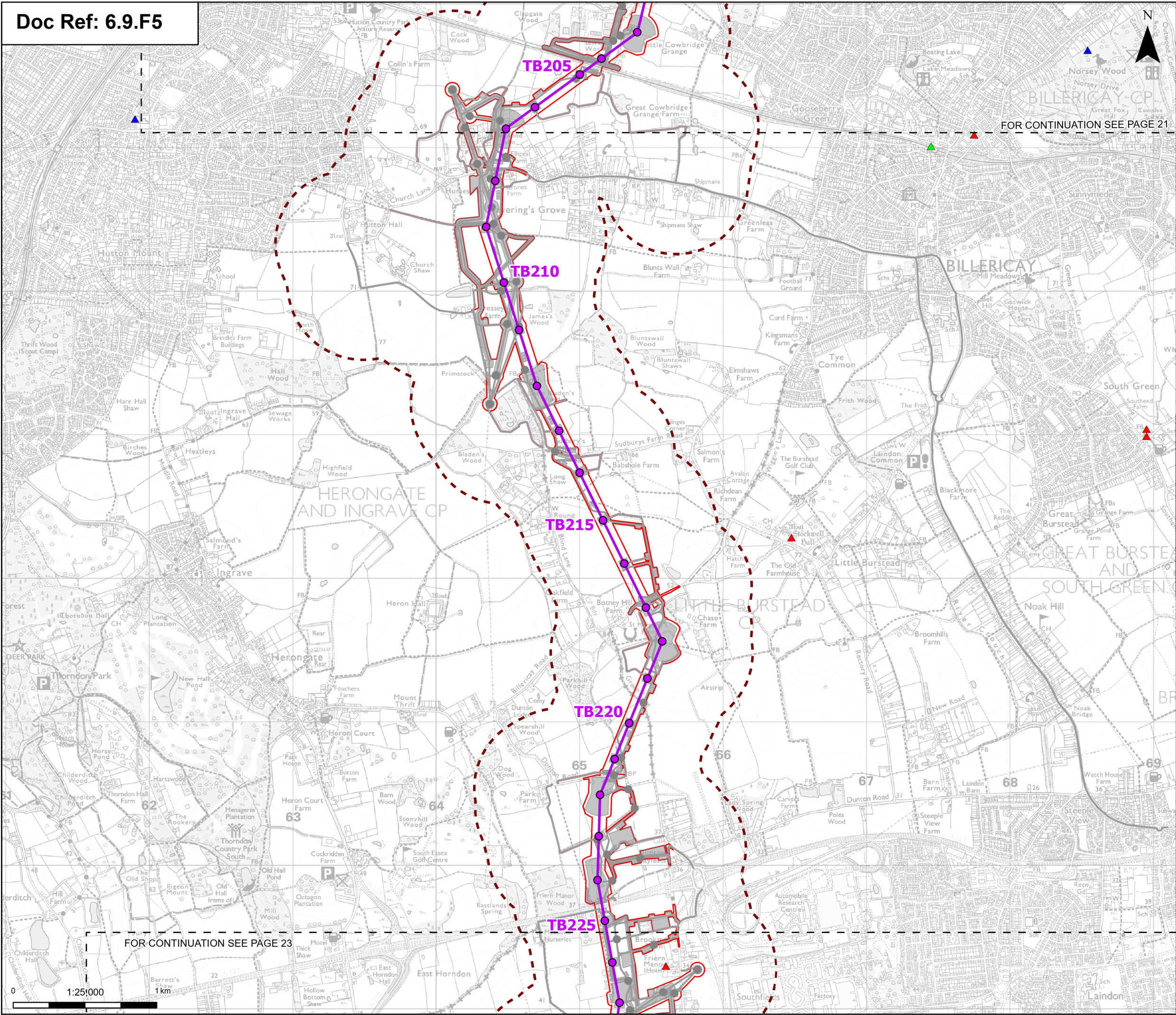
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Order limits

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

500 m Study Area

BGS water wells

0 - 10m

10 - 30m

30m+

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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