

Norwich to Tilbury

Volume 6: Environmental Statement

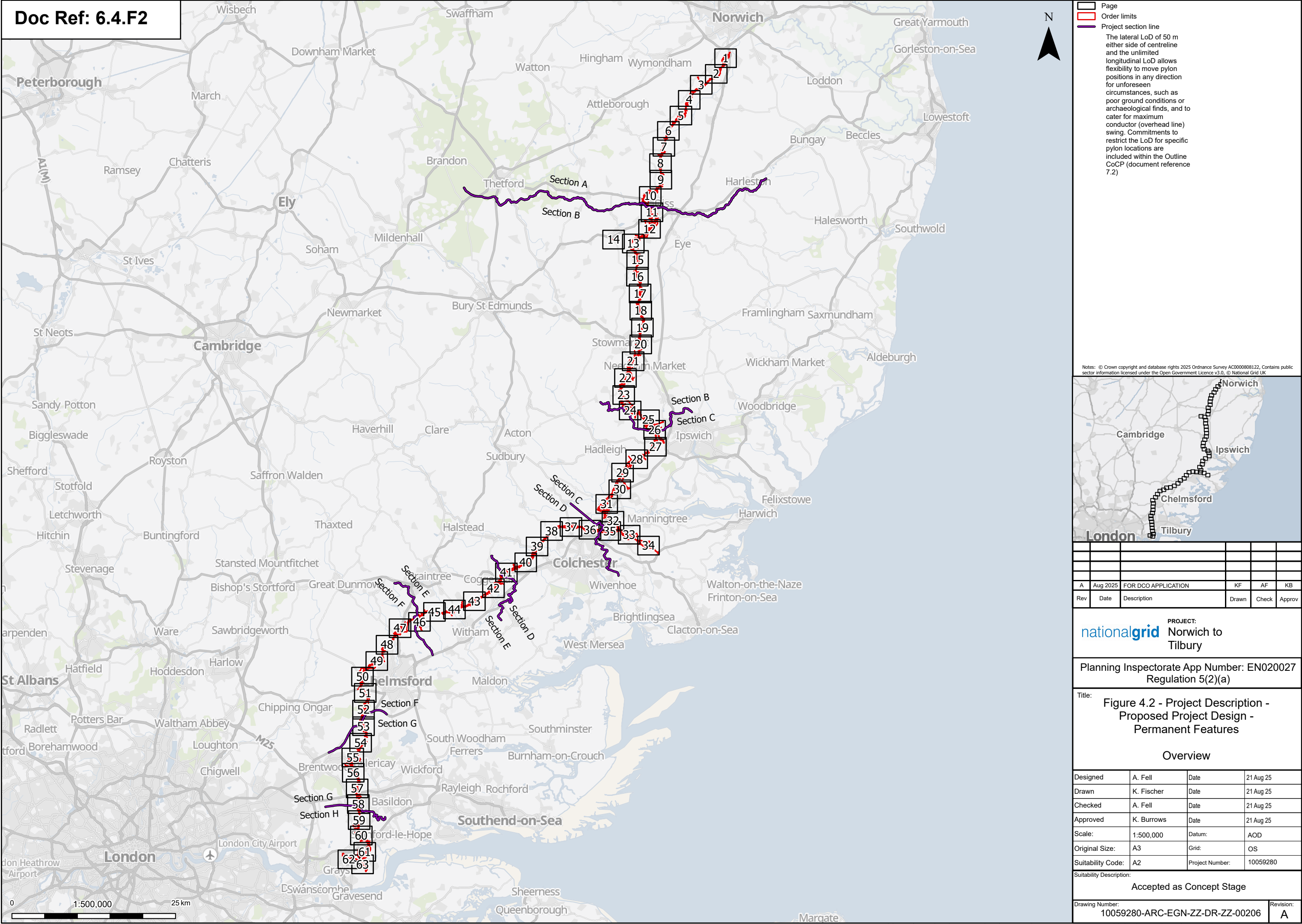
Document: 6.4.F2 Environmental Statement Figure 4.2 - Proposed Project Design - Permanent Features

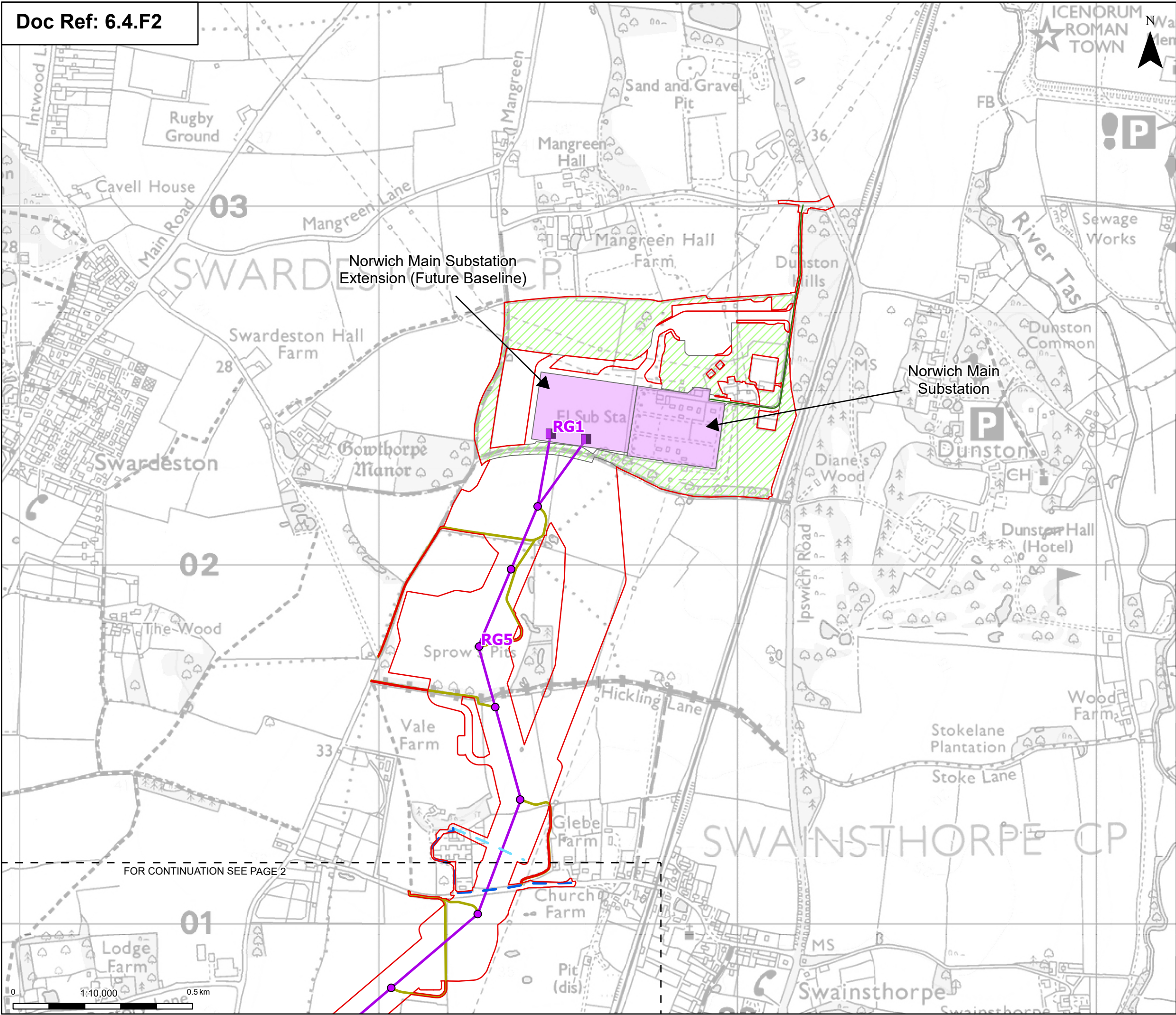
Final Issue A

August 2025

Planning Inspectorate Reference: EN020027

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





Order limits

Sheet index cutline

Norwich Main Substation

Norwich Main Substation Extension (future baseline)

Proposed permanent design details

Proposed full line tension gantry

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed Substation / Cable Sealing End (CSE) compound permanent access routes

Proposed permanent access (no physical works)

Proposed Environmental Areas - Permanent

Proposed 11kV overhead line mitigation

Proposed 11kV underground cable alignment mitigation

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

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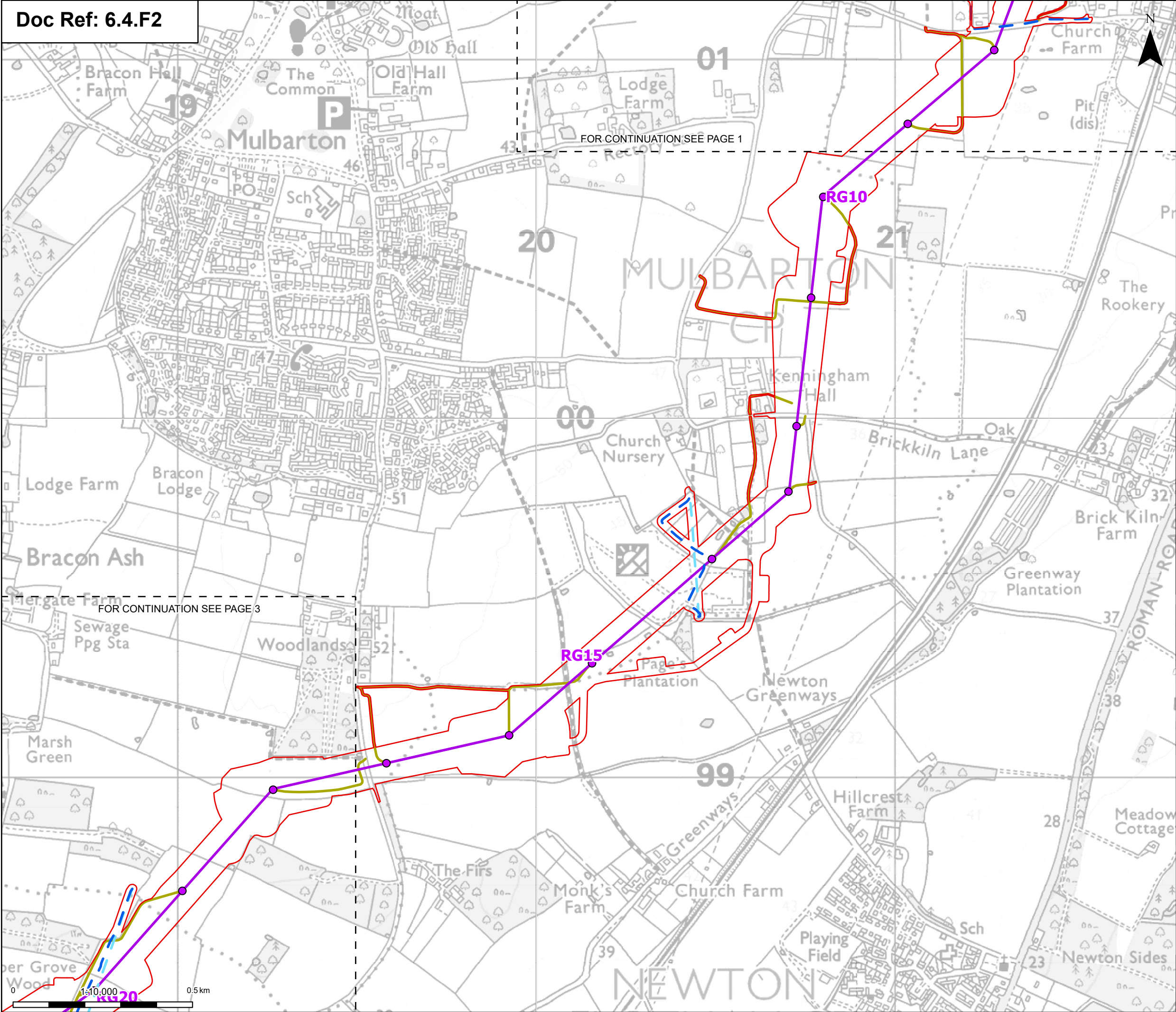
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Section A
Page 1 of 63

| | | | |
|-------------------|------------|-----------------|-----------|
| Designed | A. Fell | 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: | 1:10,000 | Datum: | AOD |
| Original Size: | A3 | Grid: | OS |
| Suitability Code: | A2 | Project Number: | 10059280 |

Suitability Description:
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| Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00206 | Revision: A |
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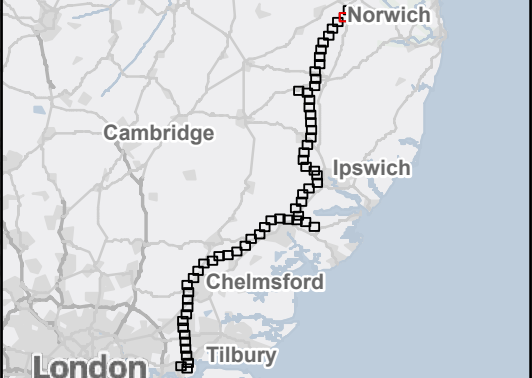
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Proposed permanent design details

- Proposed standard lattice pylon location
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- Proposed permanent access (no physical works)
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Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

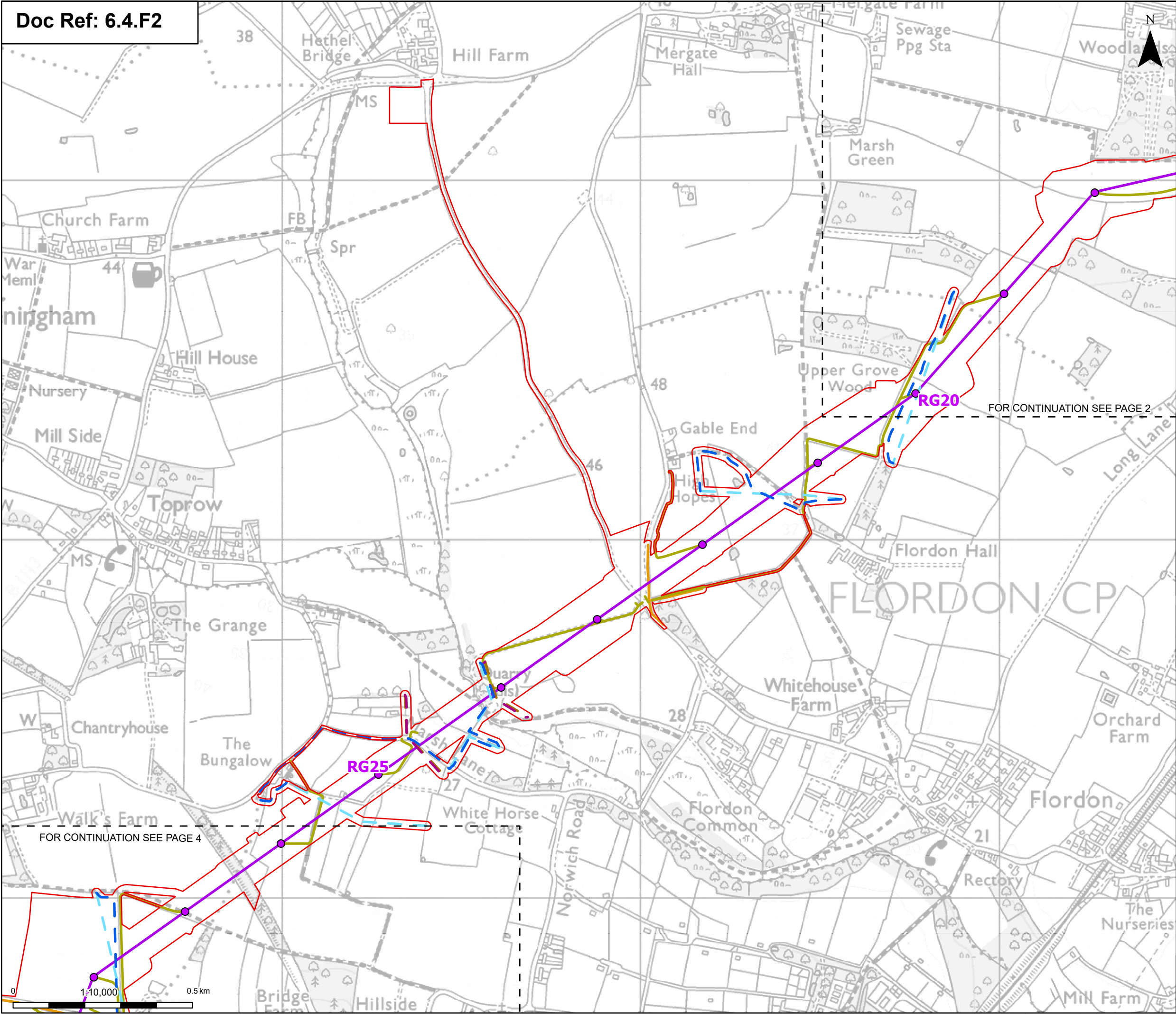
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Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Section A
Page 2 of 63

| | | | |
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Drawing Number:
10059280-ARC-EGN-ZZ-DR-ZZ-00206

Revision:
A



Order limits

Sheet index outline

Proposed permanent design details

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Proposed overhead line alignment

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Tilbury

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

Title:
Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Section A
Page 3 of 63

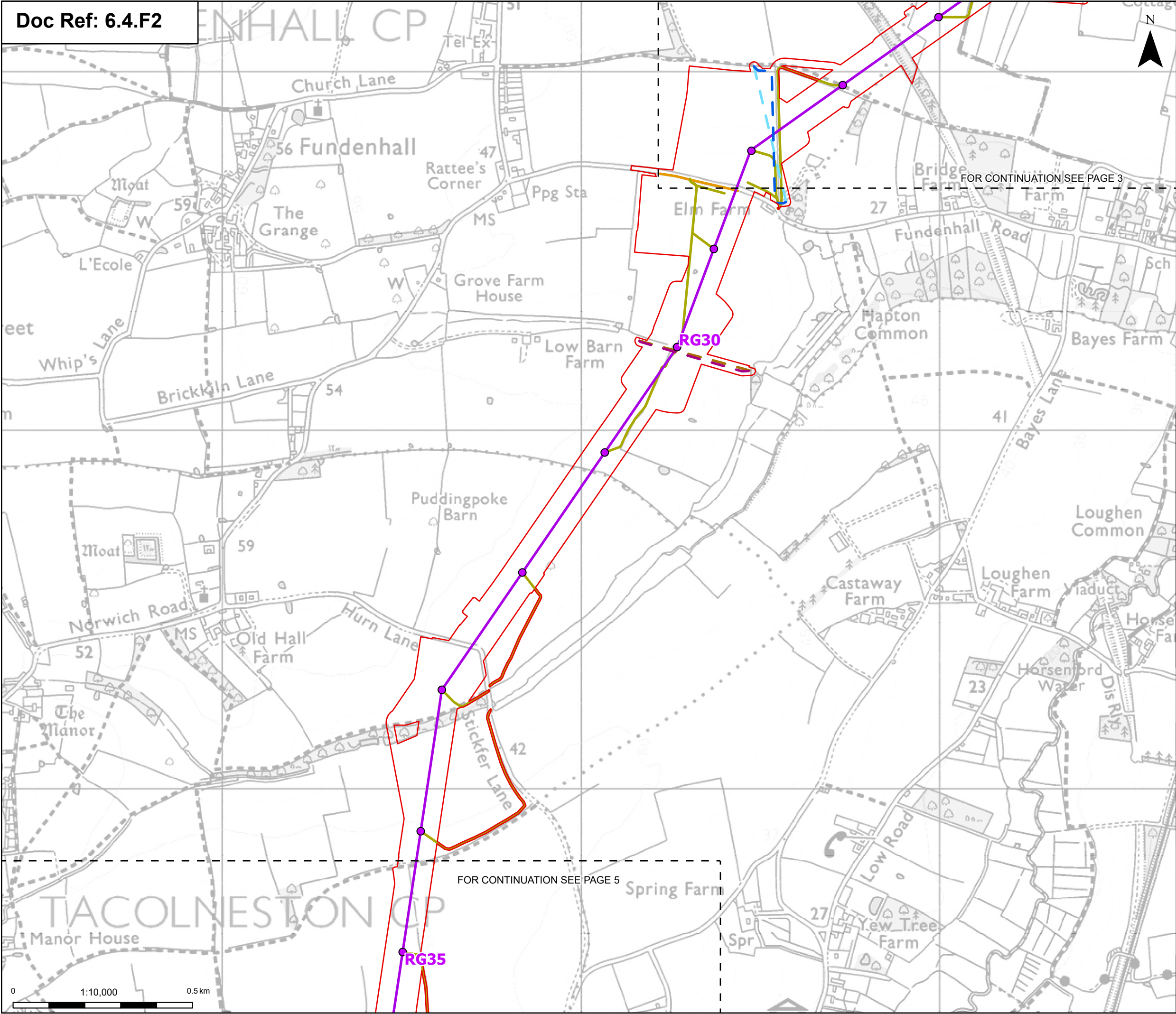
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Order limits

Sheet index outline

Proposed permanent design details

Proposed standard lattice pylon location

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FOR CONTINUATION SEE PAGE 3

FOR CONTINUATION SEE PAGE 5

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PROJECT:

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure 4.2 - Project Description - Proposed Project Design - Permanent Features

Section A

Page 4 of 63

| | | | |
|---------------------------|------------|-----------------|-----------|
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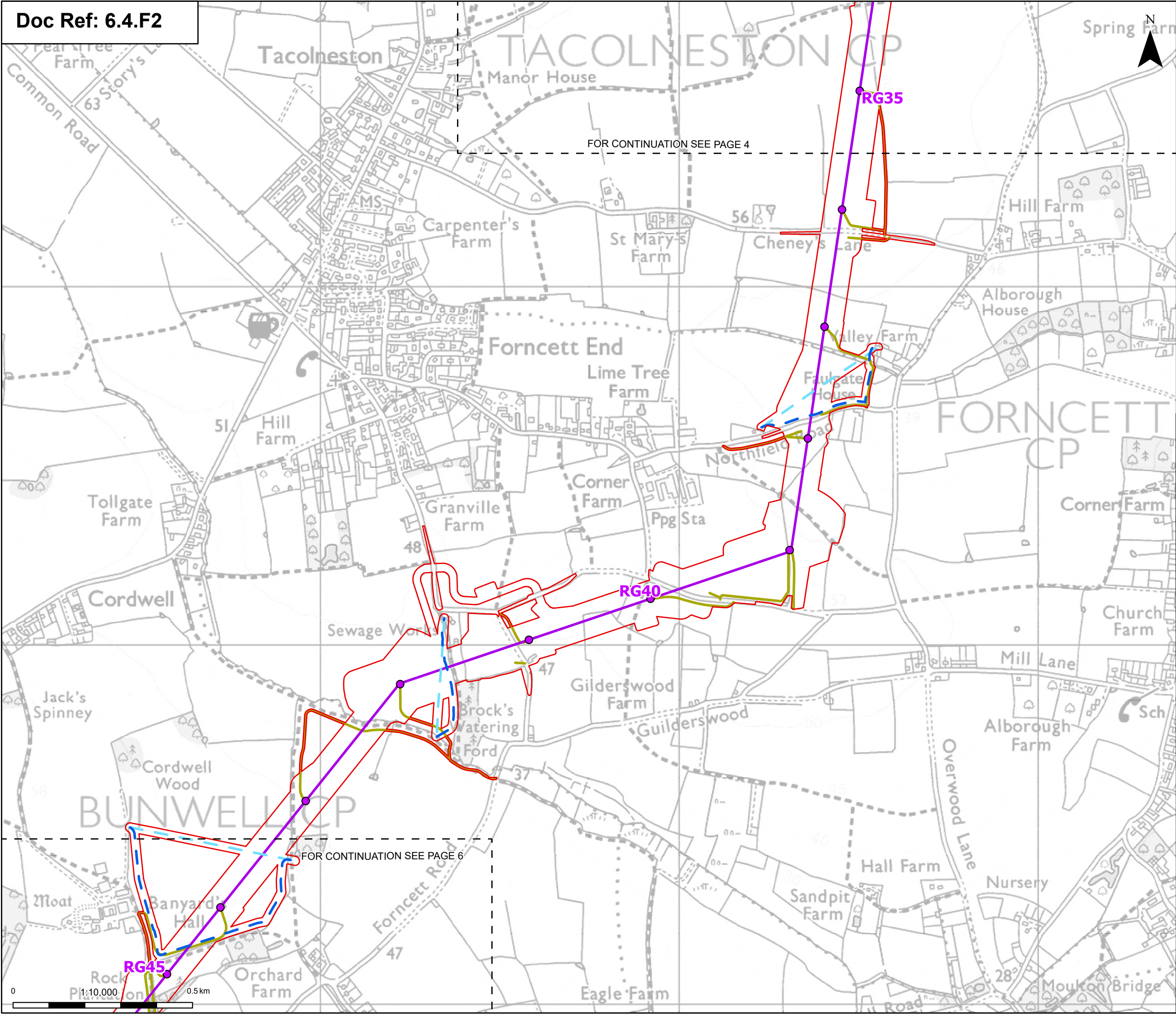
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Sheet index cutline

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PROJECT:

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

Title: **Figure 4.2 - Project Description - Proposed Project Design - Permanent Features Section A**
Page 5 of 63

| | | | |
|-------------------|------------|-----------------|-----------|
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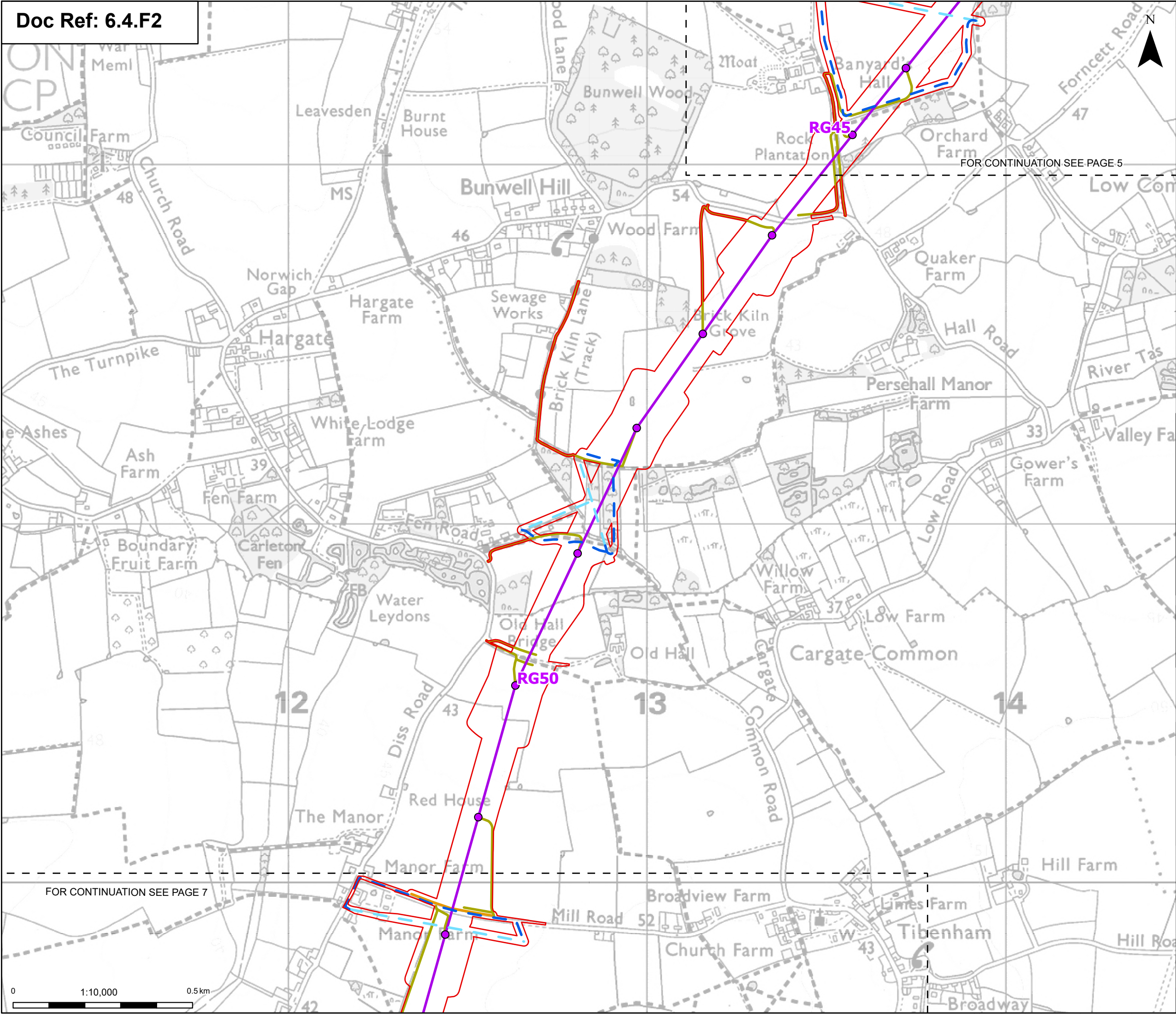
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Sheet index outline

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Proposed standard lattice pylon location

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FOR CONTINUATION SEE PAGE 7

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PROJECT:

Norwich to Tilbury

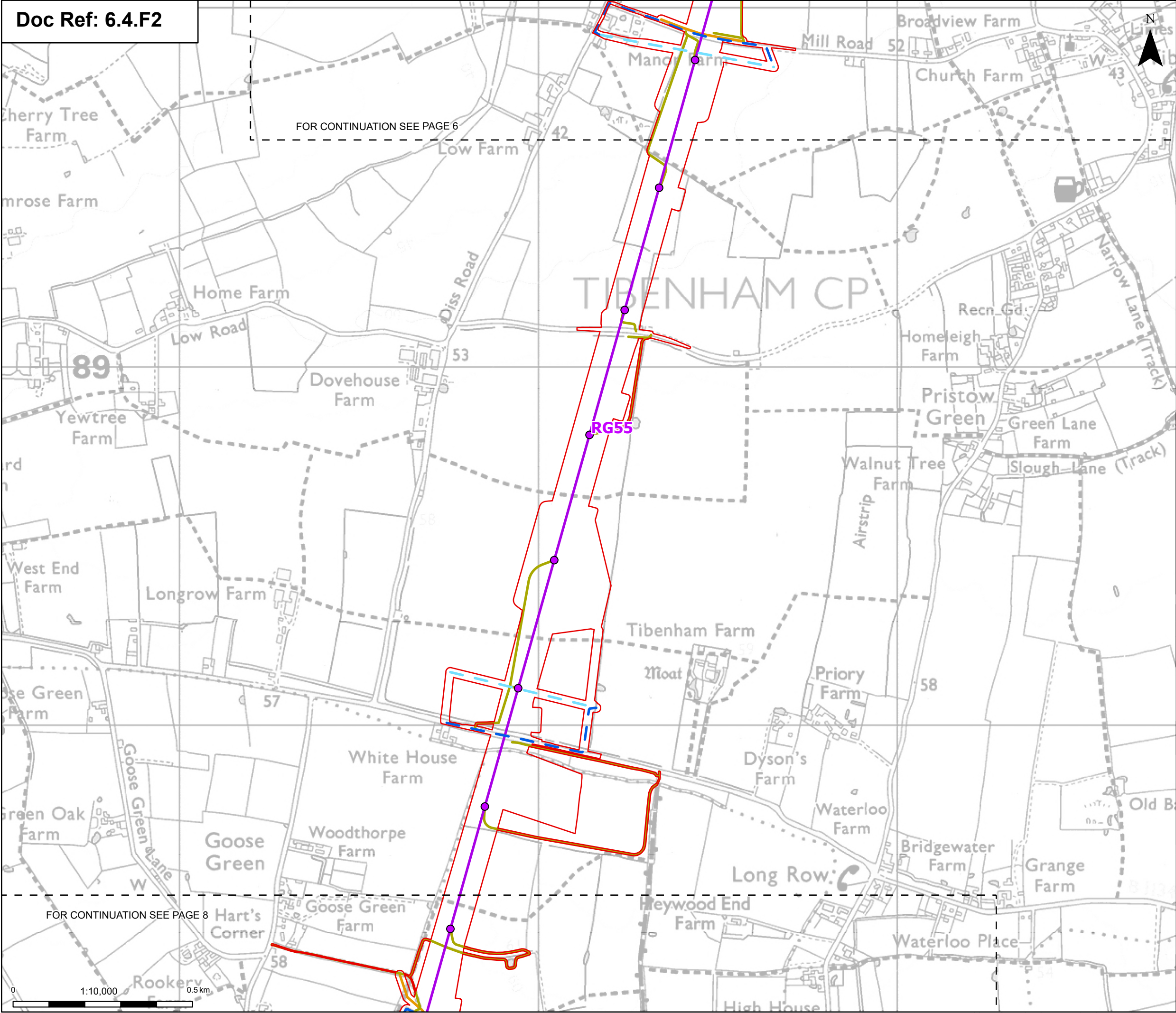
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Regulation 5(2)(a)

Title:
Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Section A
Page 6 of 63

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Sheet index cutline

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Proposed standard lattice pylon location

Proposed overhead line alignment

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Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure 4.2 - Project Description - Proposed Project Design - Permanent Features

Section A

Page 7 of 63

| | | | |
|-------------------|------------|-----------------|-----------|
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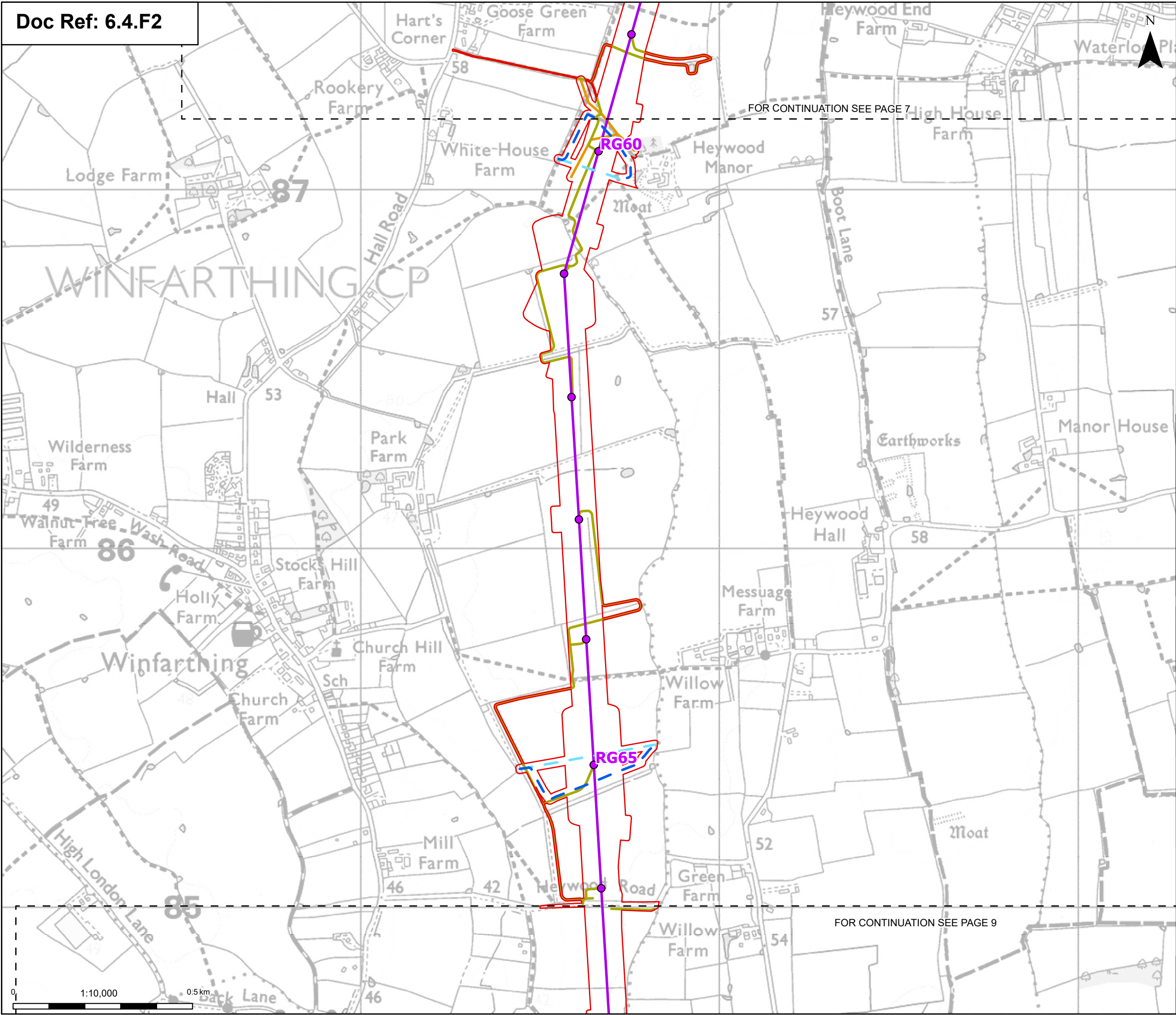
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Order limits

Sheet index cutline

Proposed permanent design details

Proposed standard lattice pylon location

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Proposed permanent access (no physical works)

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Proposed 11kV overhead line mitigation

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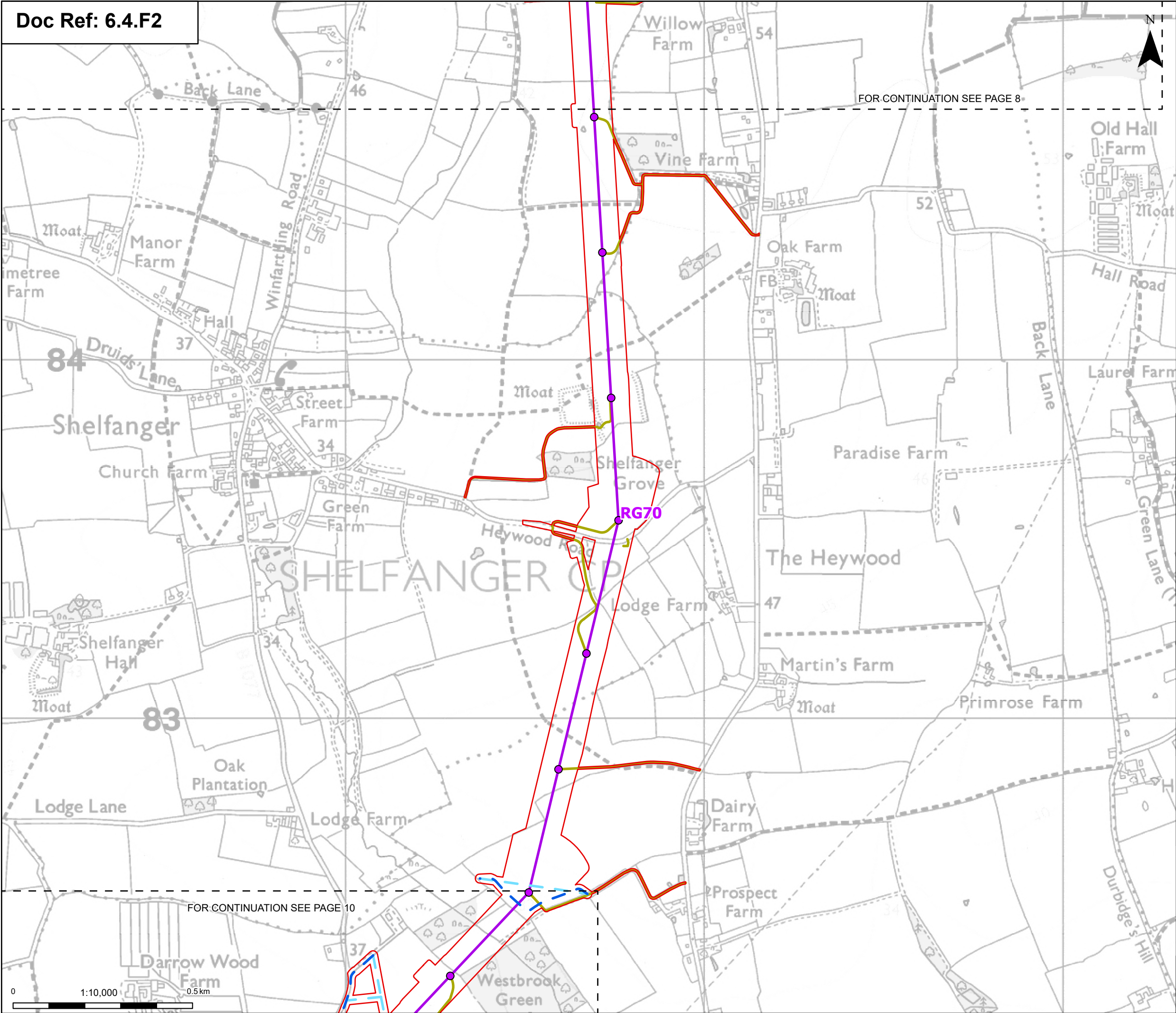
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Title: Figure 4.2 - Project Description - Proposed Project Design - Permanent Features Section A Page 8 of 63

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| Checked | A. Fell | Date | 21 Aug 25 |
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Order limits

Sheet index outline

Proposed permanent design details

Proposed standard lattice pylon location

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Proposed permanent access (no physical works)

Proposed 11kV overhead line mitigation

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| Rev | Date | Description | Drawn | Check | Approv |

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Norwich to
Tilbury

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

Title:
Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Section A
Page 9 of 63

| | | | |
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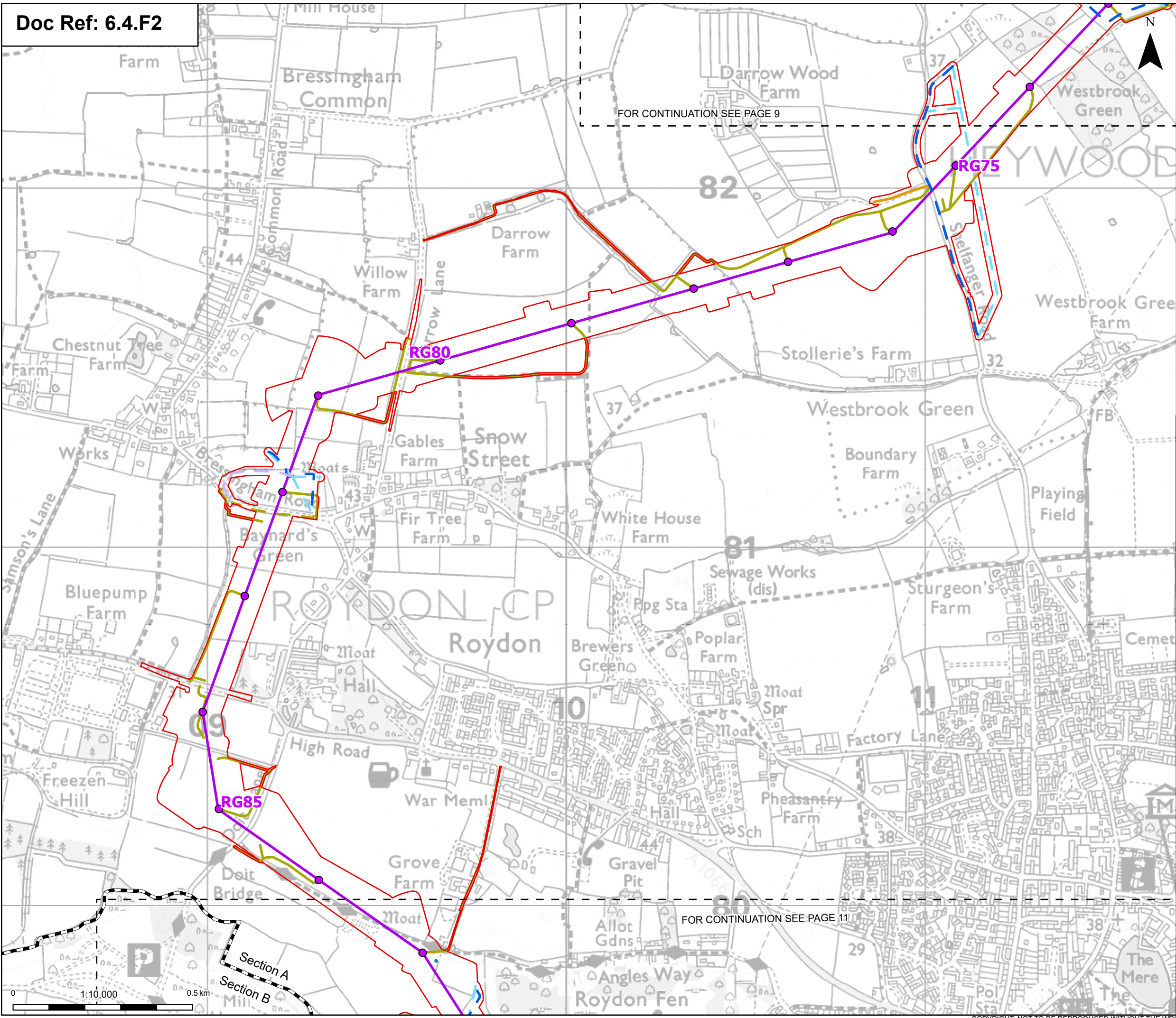
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Order limits

Project section line

Sheet index outline

FOR CONTINUATION SEE PAGE 9

Proposed permanent design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed permanent access (no physical works)

Proposed BT overhead line mitigation

Proposed 11kV overhead line mitigation

Proposed 11kV underground cable alignment mitigation

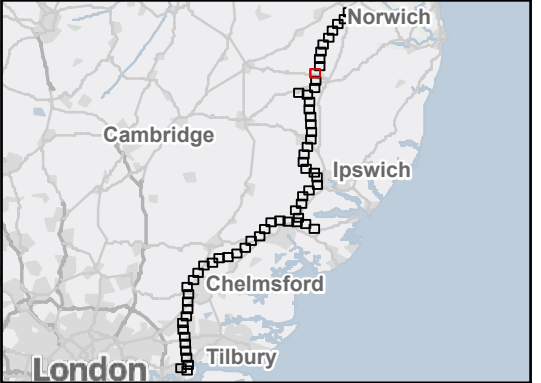
Proposed UKPN Pole Mitigation

Proposed LV proposed underground cable alignment

Proposed flood compensation mitigation works

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

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Norwich to Tilbury

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

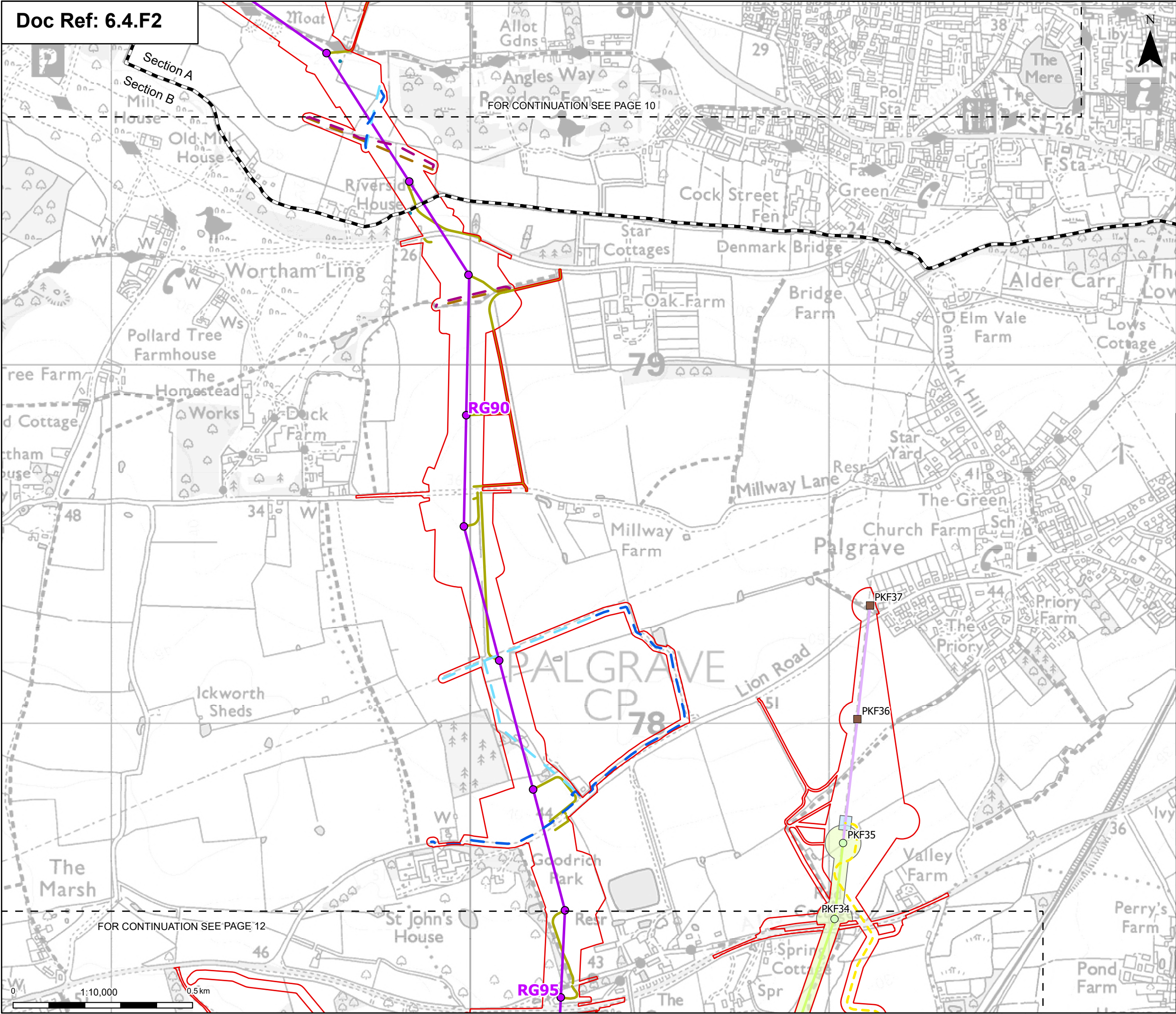
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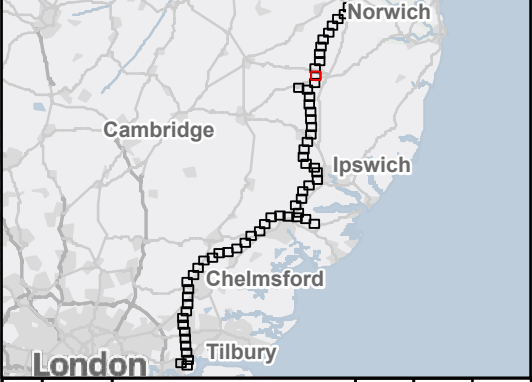
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Revision: A



- Order limits
 - Project section line
 - Sheet index cutline
 - Proposed permanent design details
 - Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Proposed permanent access (no physical works)
 - Proposed UKPN overhead line dismantle towers
 - Proposed UKPN overhead line existing tower (to be modified)
 - Proposed 11kV overhead line mitigation
 - Proposed 11kV underground cable alignment mitigation
 - Proposed 33kV overhead line mitigation
 - Proposed 33kV underground cable alignment mitigation
 - Proposed flood compensation mitigation works
 - Proposed UKPN cable sealing end platform
 - Proposed UKPN tower dismantle assets
 - Proposed UKPN dismantle centreline
 - Proposed UKPN Cable Centreline
 - Proposed UKPN Existing Centreline (Modified)
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment.

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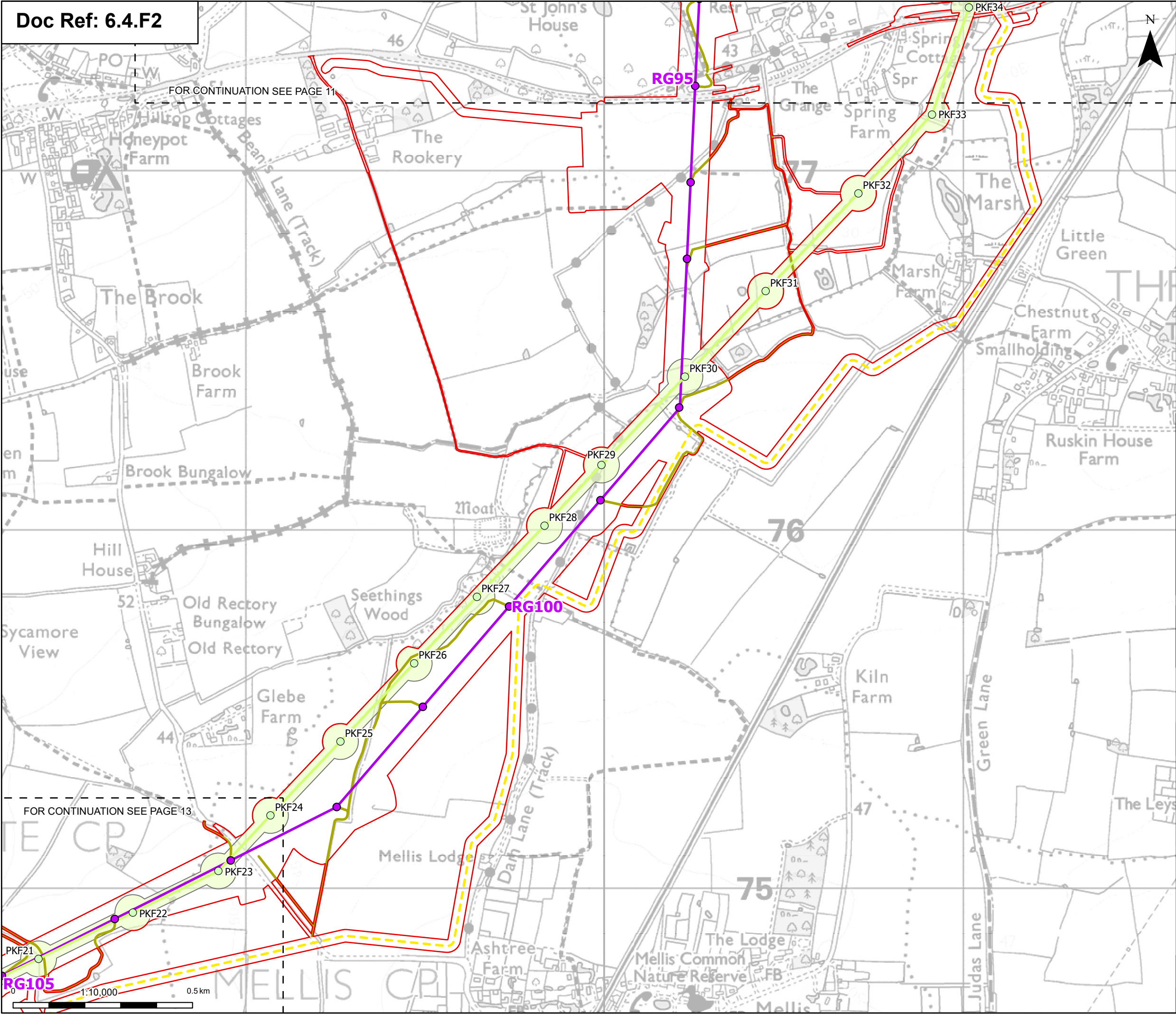
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Sections A and B
Page 11 of 63

| | | | |
|-------------------|------------|-----------------|-----------|
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| Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00206 | Revision: A |
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Order limits

Sheet index outline

Proposed permanent design details

Proposed standard lattice pylon location

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Proposed permanent access (no physical works)

Proposed UKPN overhead line dismantle towers

Proposed UKPN tower dismantle assets

Proposed UKPN dismantle centreline

Proposed UKPN Cable Centreline

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PROJECT:

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure 4.2 - Project Description - Proposed Project Design - Permanent Features Section B Page 12 of 63

| | | | |
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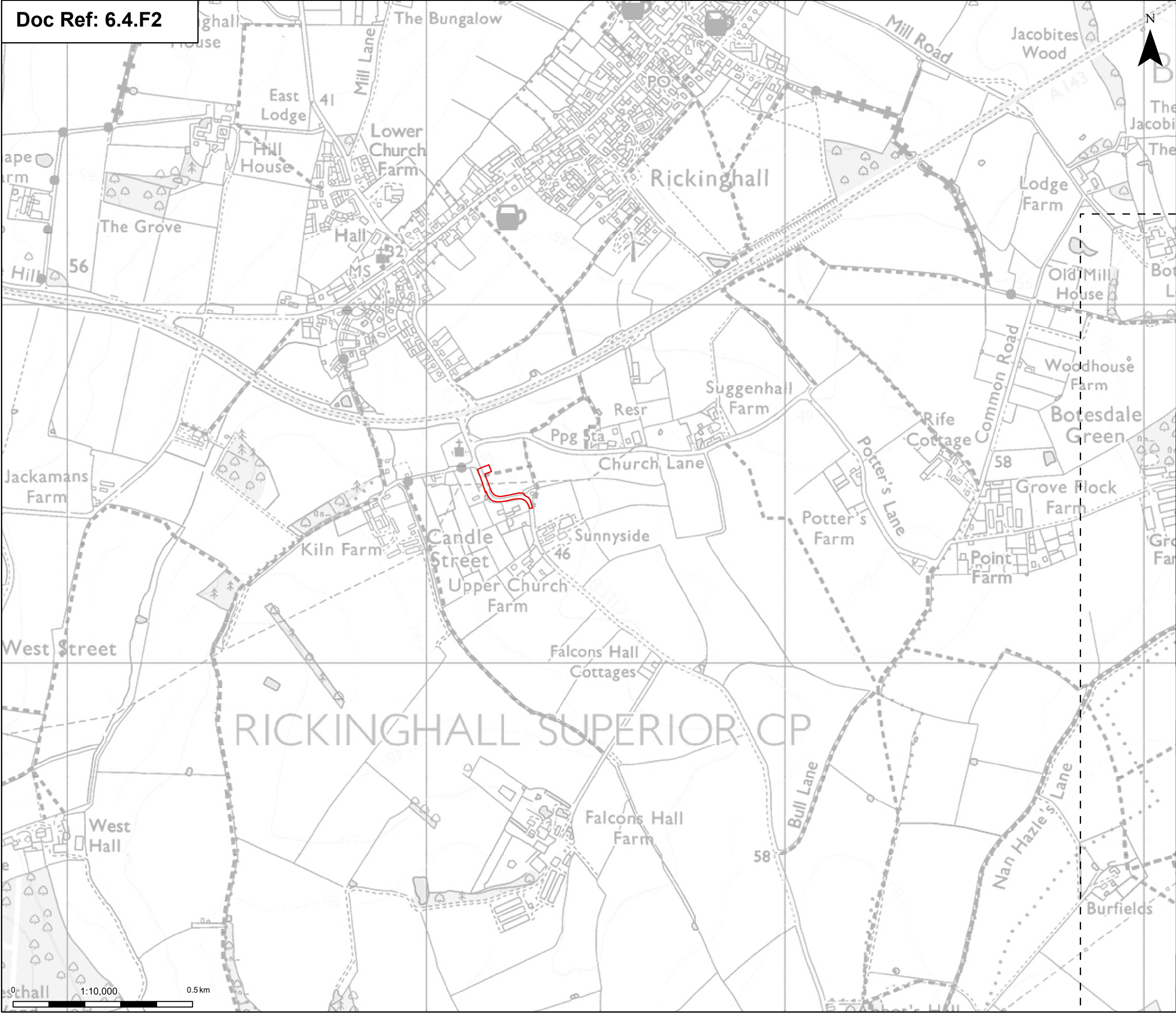
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PROJECT:

Norwich to Tilbury

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Regulation 5(2)(a)

Title: **Figure 4.2 - Project Description - Proposed Project Design - Permanent Features**
Section B
Page 14 of 63

| | | | |
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| Designed | A. Fell | 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: | 1:10,000 | Datum: | AOD |
| Original Size: | A3 | Grid: | OS |
| Suitability Code: | A2 | Project Number: | 10059280 |

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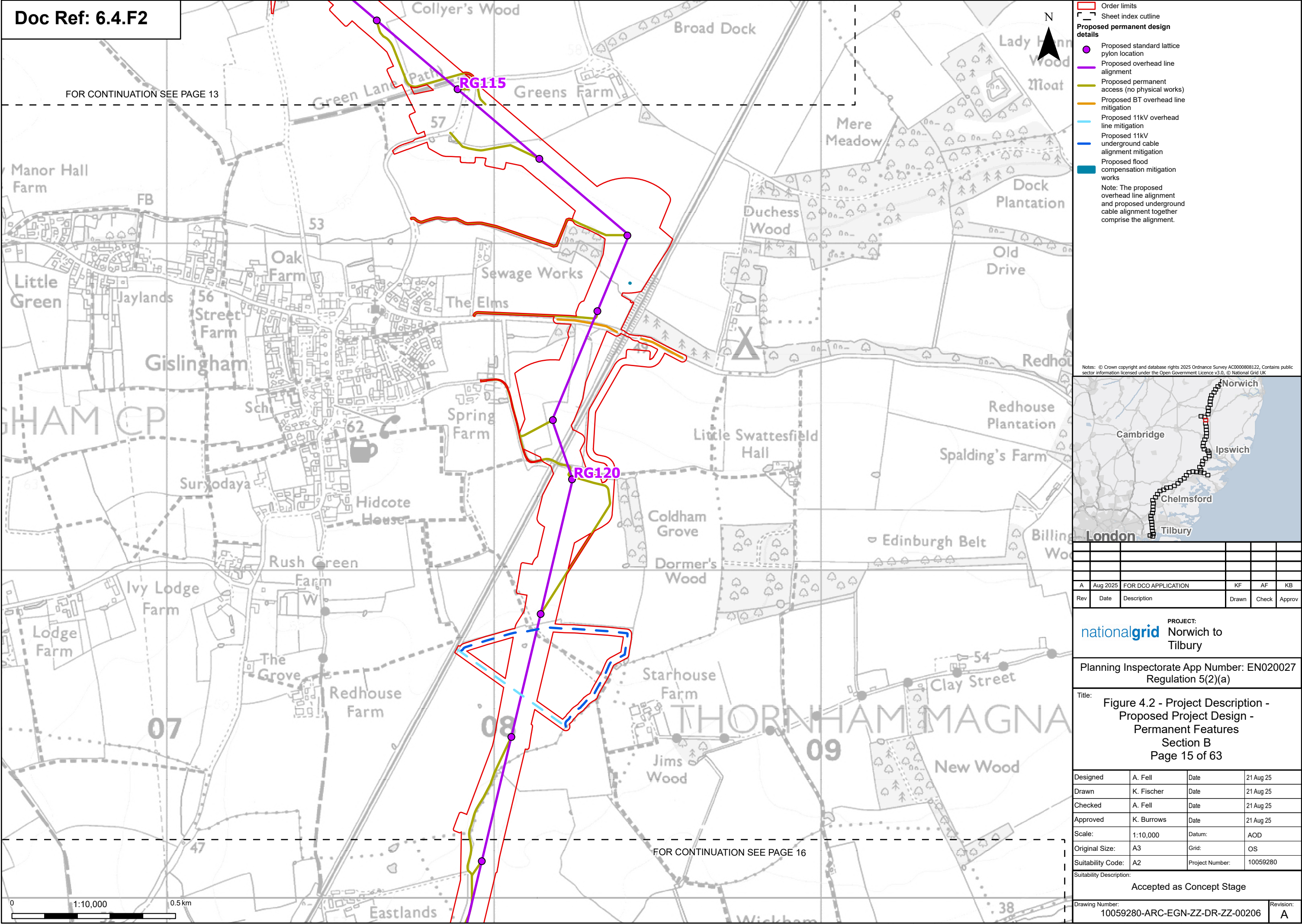
Accepted as Concept Stage

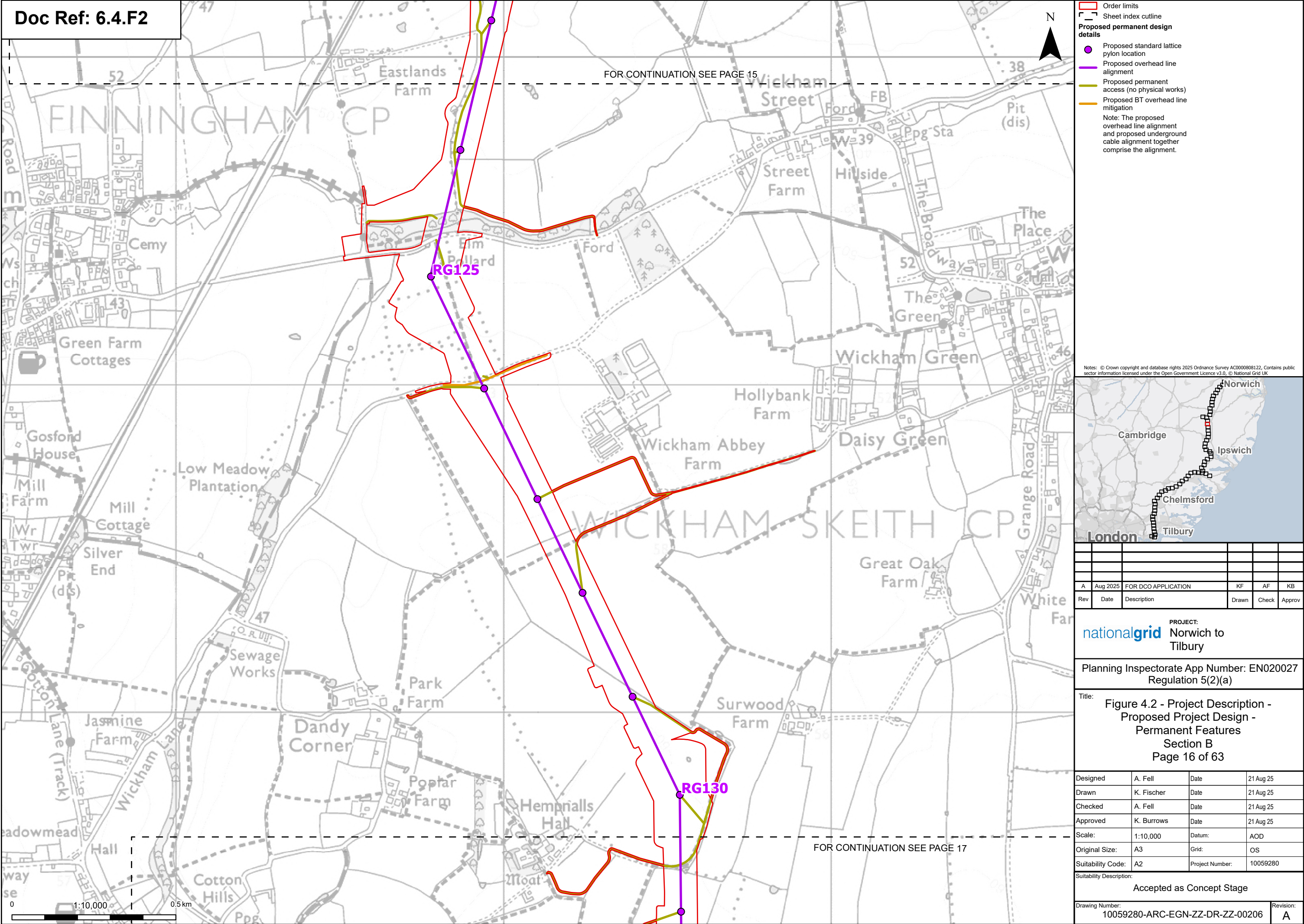
Drawing Number:
10059280-ARC-EGN-ZZ-DR-ZZ-00206

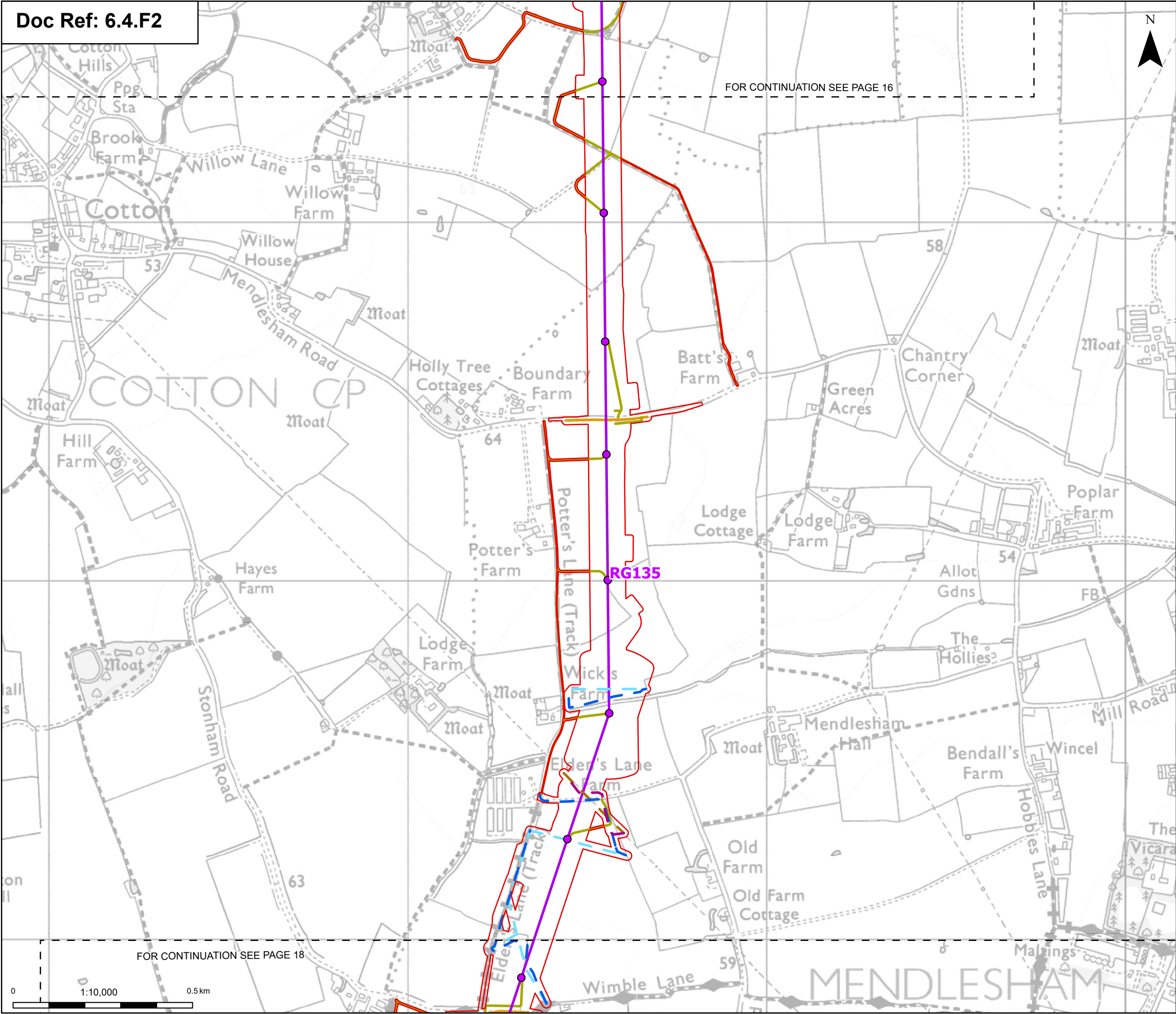
Revision:
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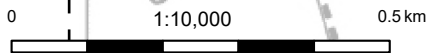






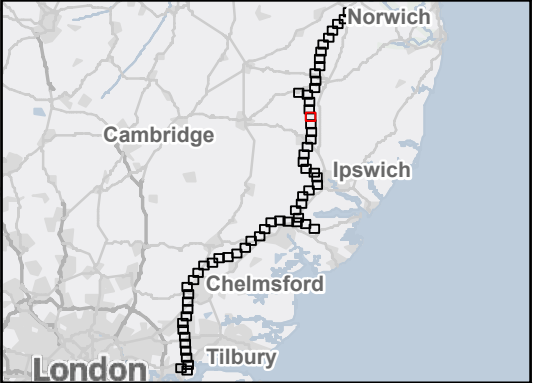
FOR CONTINUATION SEE PAGE 16

FOR CONTINUATION SEE PAGE 18



- Order limits
- Sheet index cutline
- Proposed permanent design details**
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed permanent access (no physical works)
- Proposed BT overhead line mitigation
- Proposed 11kV overhead line mitigation
- Proposed 11kV underground cable alignment mitigation
- Proposed 33kV overhead line mitigation
- Proposed 33kV underground cable alignment mitigation
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment.

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PROJECT:
nationalgrid Norwich to Tilbury

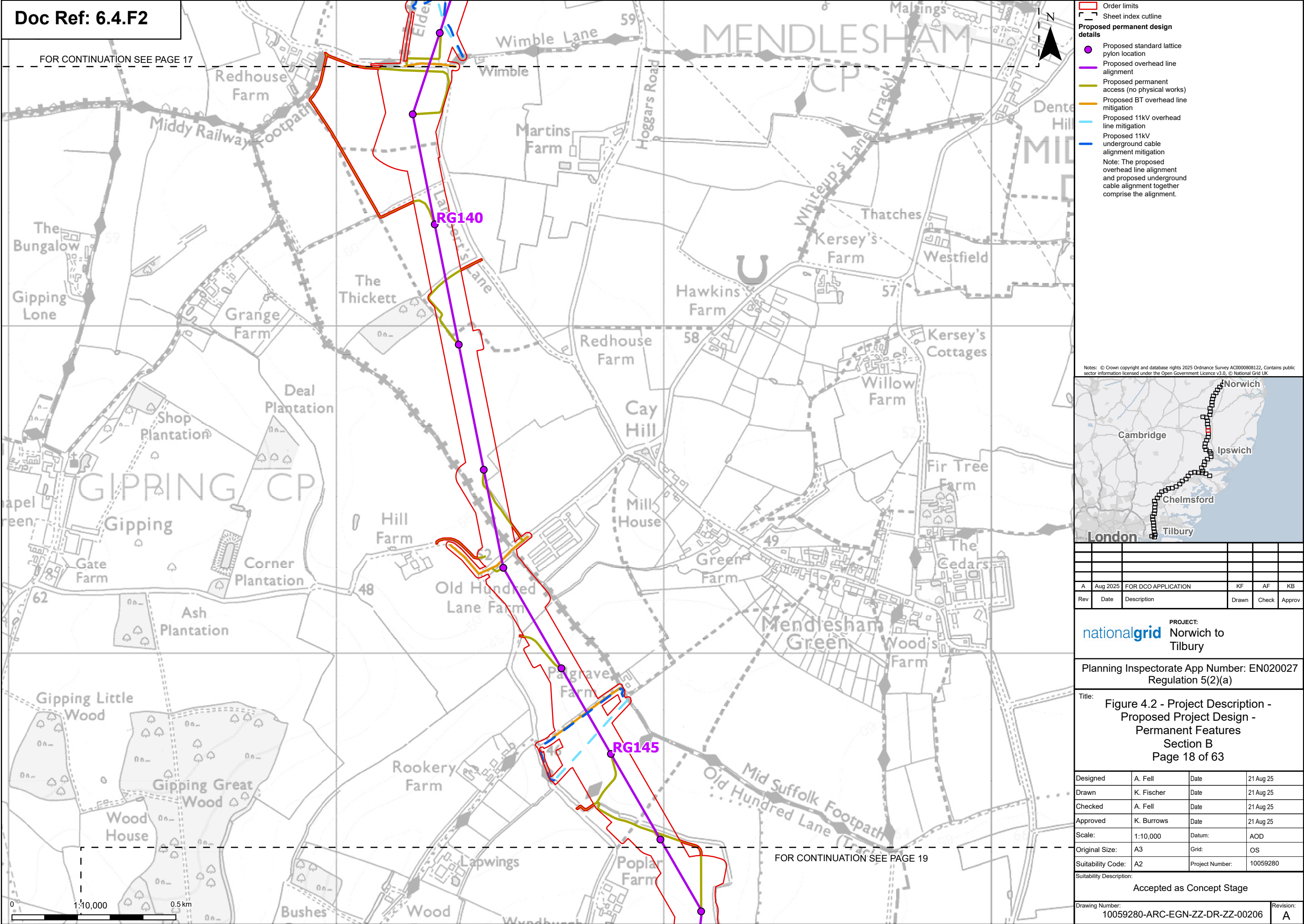
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Regulation 5(2)(a)

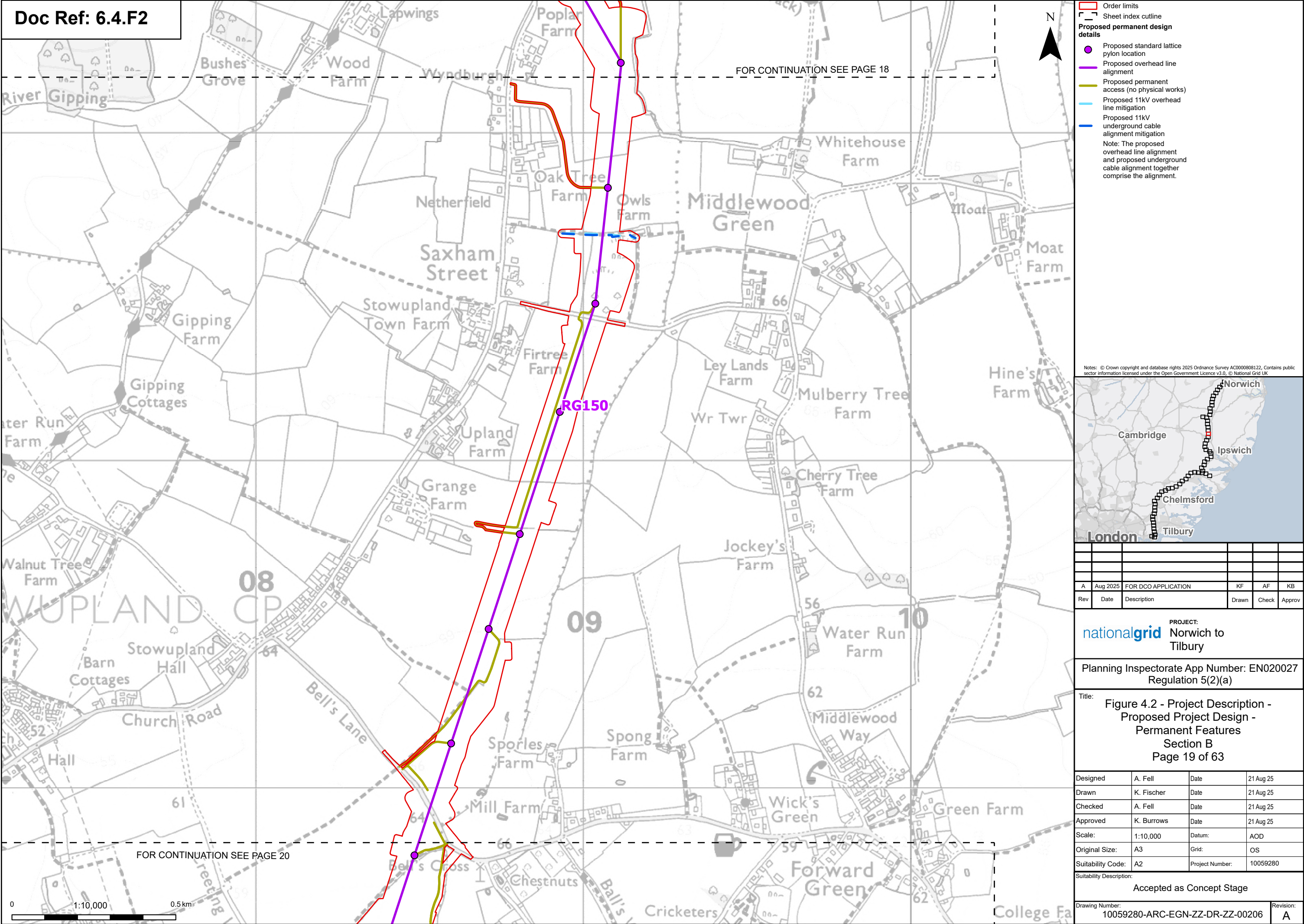
Title:
Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Section B
Page 17 of 63

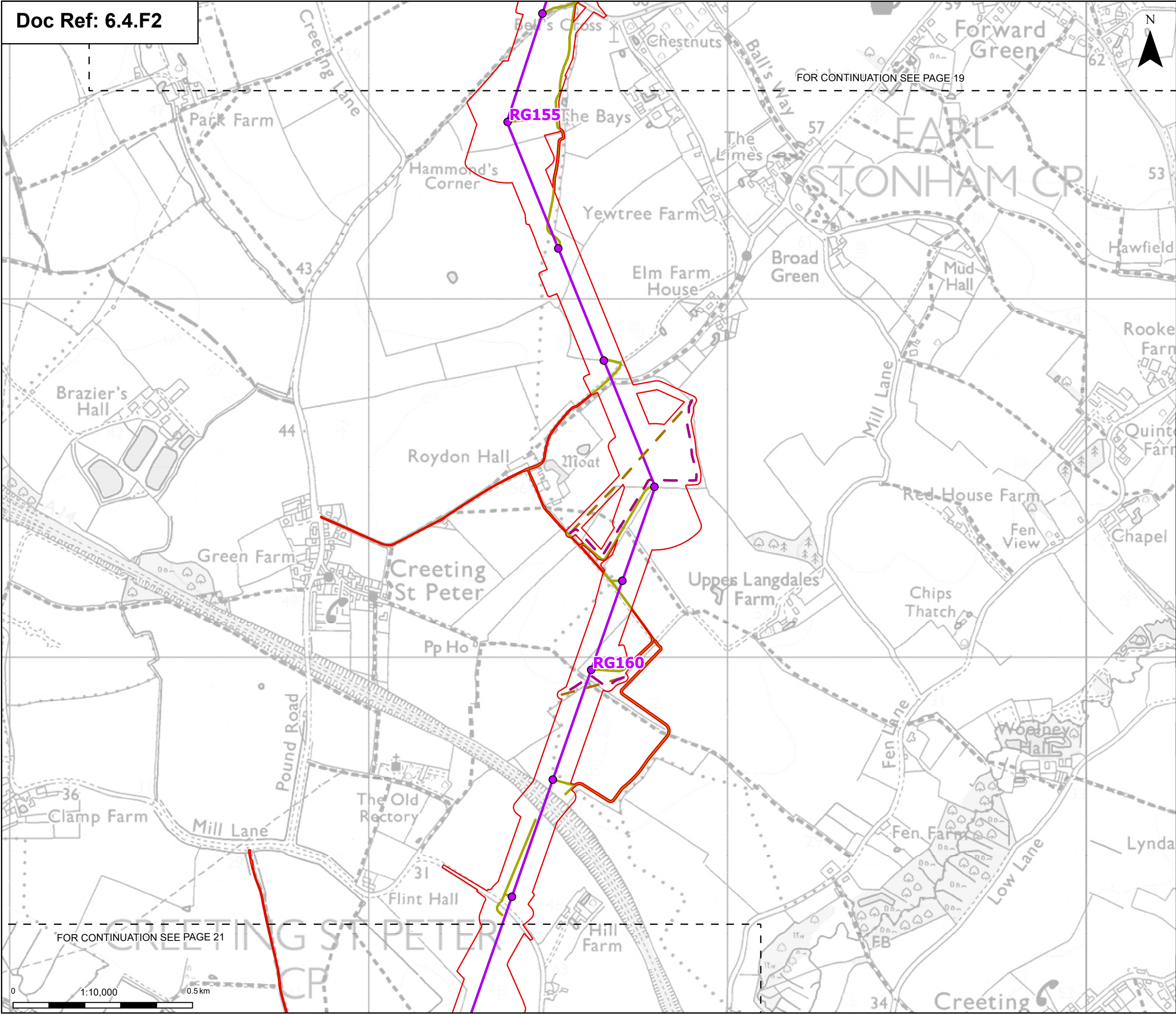
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| Scale: | 1:10,000 | Datum: | AOD |
| Original Size: | A3 | Grid: | OS |
| Suitability Code: | A2 | Project Number: | 10059280 |

Suitability Description:
Accepted as Concept Stage

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| Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00206 | Revision: A |
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FOR CONTINUATION SEE PAGE 19

FOR CONTINUATION SEE PAGE 21

Order limits

Sheet index outline

Proposed permanent design details

Proposed standard lattice pylon location

Proposed overhead line alignment

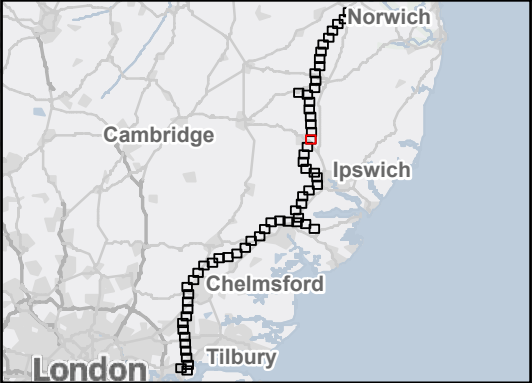
Proposed permanent access (no physical works)

Proposed 33kV overhead line mitigation

Proposed 33kV underground cable alignment mitigation

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

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PROJECT:
nationalgrid Norwich to Tilbury

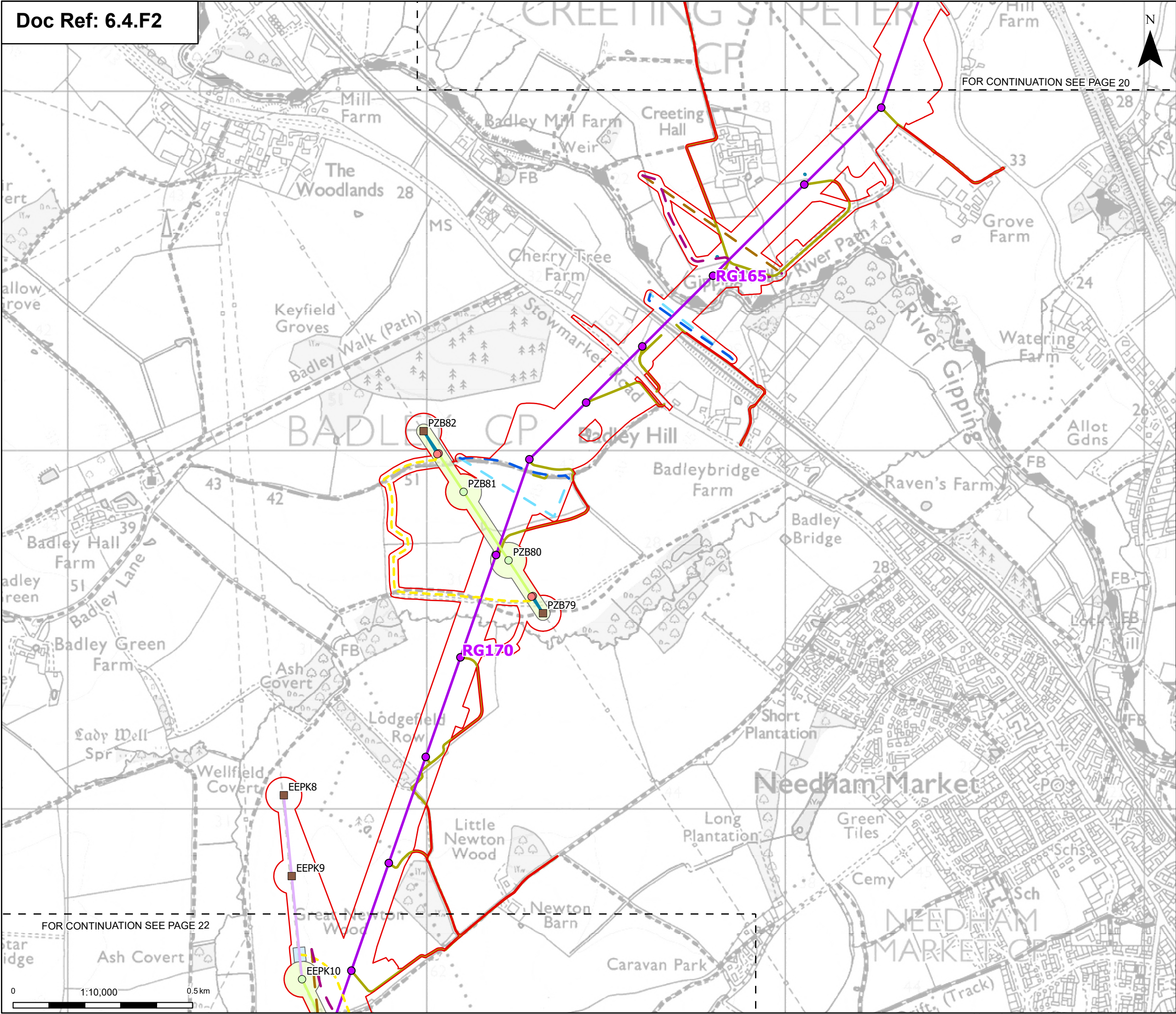
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Regulation 5(2)(a)

Title:
Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Section B
Page 20 of 63

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| Designed | A. Fell | 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: | 1:10,000 | 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-EGN-ZZ-DR-ZZ-00206 | Revision: A |
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Order limits

Sheet index outline

Proposed permanent design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed permanent access (no physical works)

Proposed UKPN overhead line dismantle towers

Proposed UKPN overhead line existing tower (to be modified)

Proposed UKPN OHL New H Pole

Proposed 11kV overhead line mitigation

Proposed 11kV underground cable alignment mitigation

Proposed 33kV overhead line mitigation

Proposed 33kV underground cable alignment mitigation

Proposed flood compensation mitigation works

Proposed UKPN cable sealing end platform

Proposed UKPN tower dismantle assets

Proposed UKPN dismantle centreline

Proposed UKPN Cable Centreline

Proposed UKPN Existing Centreline (Modified)

Proposed UKPN New Centreline

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

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nationalgrid

PROJECT:
Norwich to
Tilbury

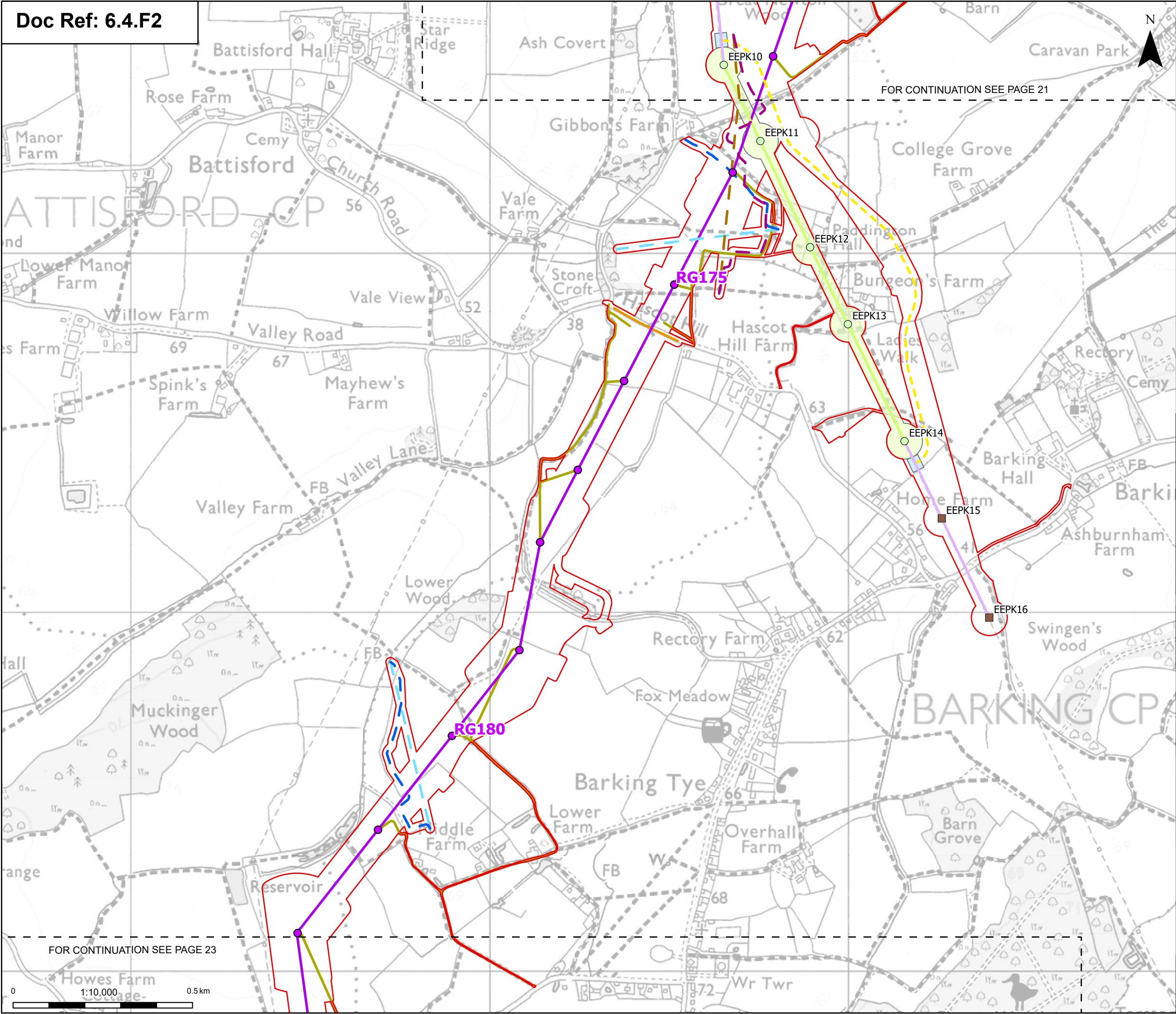
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title: **Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Section B
Page 21 of 63**

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|-------------------|------------|-----------------|-----------|
| Designed | A. Fell | 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: | 1:10,000 | Datum: | AOD |
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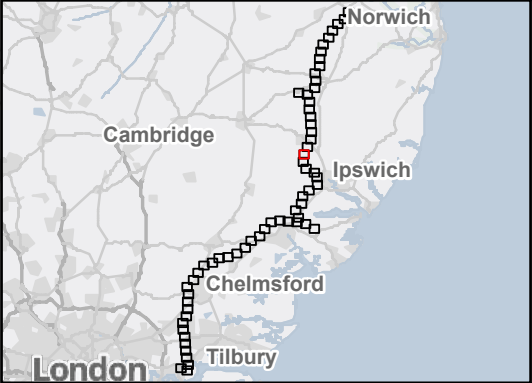
Suitability Description:
Accepted as Concept Stage

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| Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00206 | Revision: A |
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- Order limits
- Sheet index outline
- Proposed permanent design details
 - Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Proposed permanent access (no physical works)
 - Proposed BT overhead line mitigation
 - Proposed UKPN overhead line dismantle towers
 - Proposed UKPN overhead line existing tower (to be modified)
 - Proposed 11kV overhead line mitigation
 - Proposed 11kV underground cable alignment mitigation
- Proposed 33kV overhead line mitigation
- Proposed 33kV underground cable alignment mitigation
- Proposed UKPN cable sealing end platform
- Proposed UKPN tower dismantle assets
- Proposed UKPN dismantle centreline
- Proposed UKPN Cable Centreline
- Proposed UKPN Existing Centreline (Modified)
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment.

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PROJECT:
nationalgrid Norwich to Tilbury

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

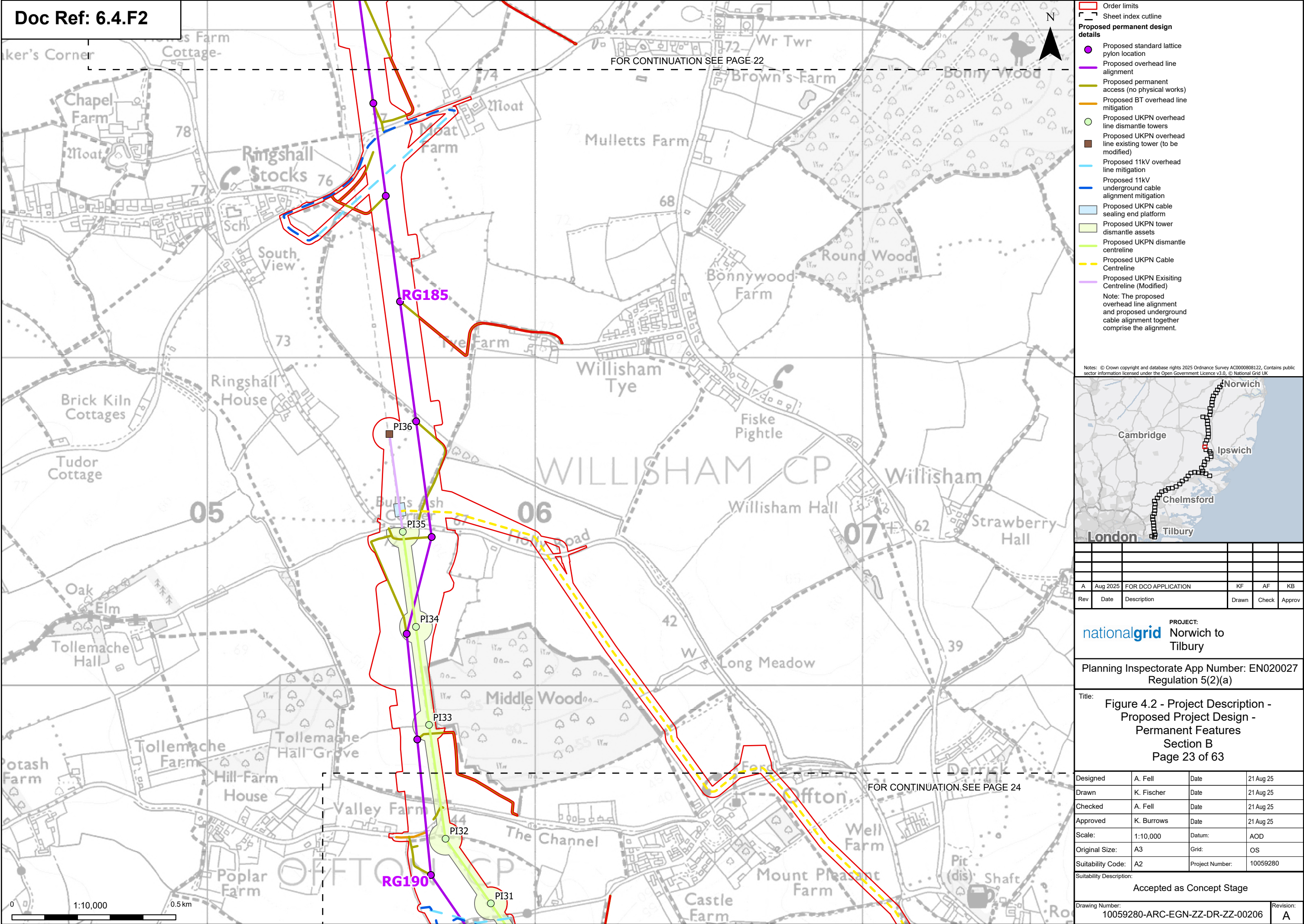
Title:
Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Section B
Page 22 of 63

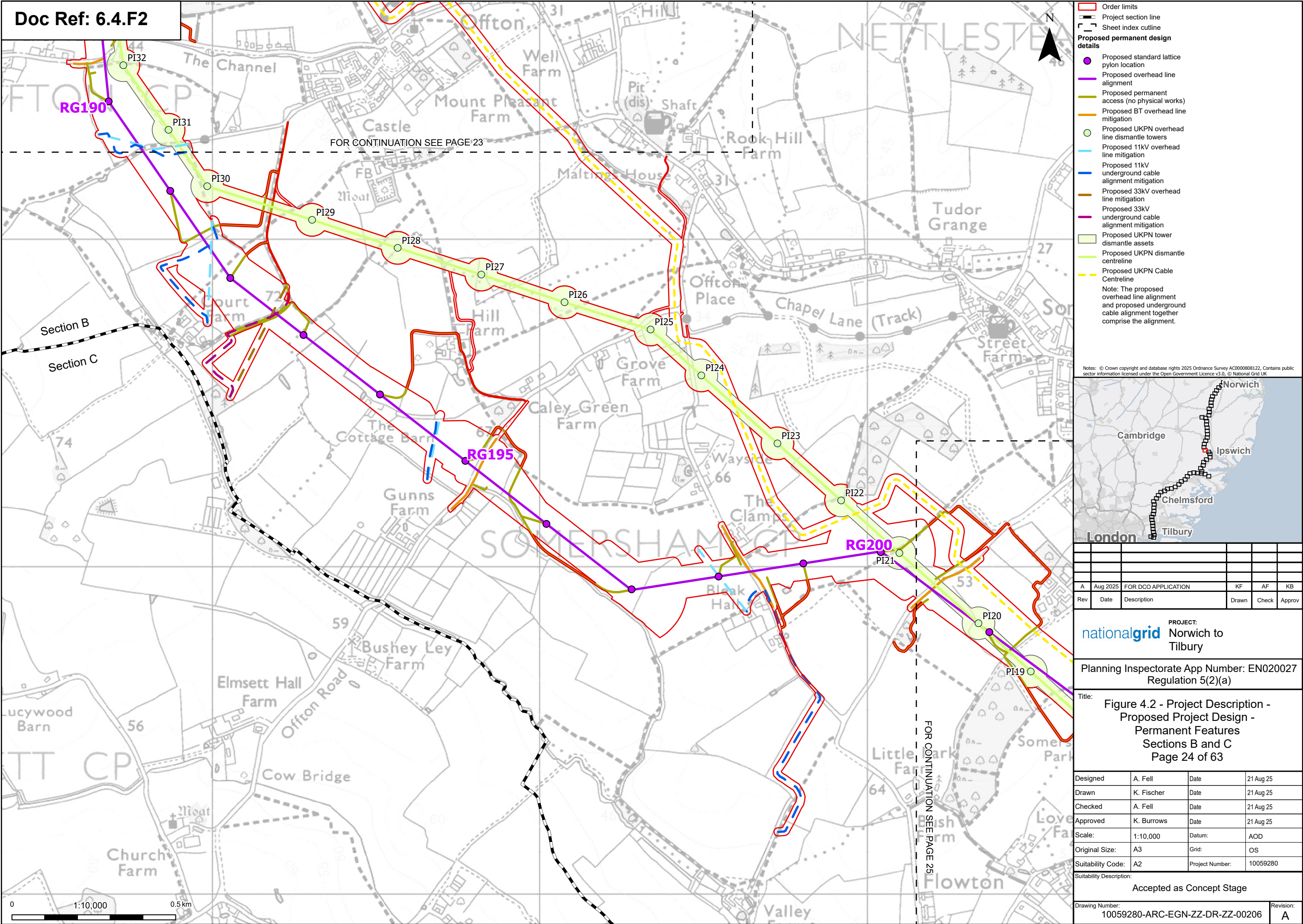
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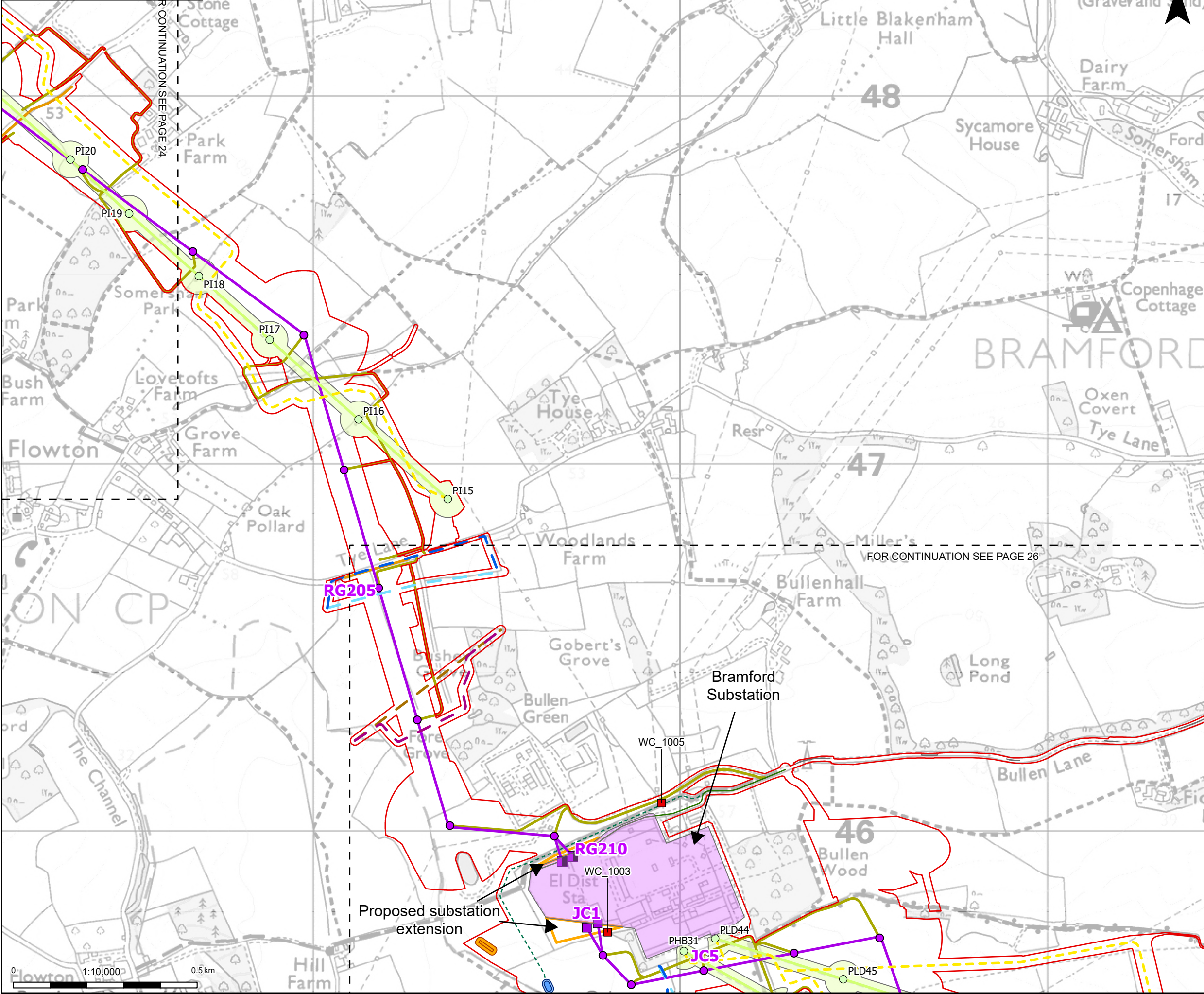
Suitability Description:
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Drawing Number:
10059280-ARC-EGN-ZZ-DR-ZZ-00206

Revision:
A





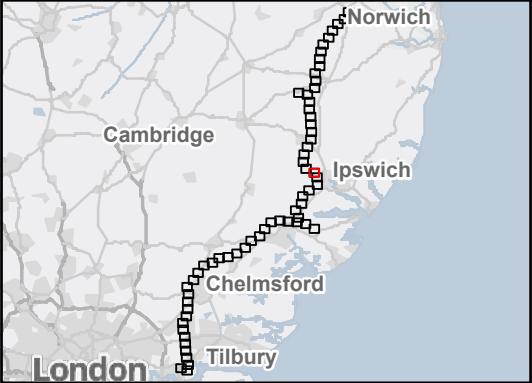


Legend

- Order limits
- Sheet index outline
- Bramford Substation
- Proposed permanent design details
 - Proposed full line tension gantry
 - Proposed low duty gantry
 - Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Proposed Substation / Cable Sealing End (CSE) compound permanent access routes
 - Proposed permanent access (no physical works)
 - Proposed BT overhead line mitigation
 - Proposed Bramford Substation Extension
 - Proposed permanent attenuation drainage channel
 - Proposed permanent attenuation drainage pond
 - Proposed permanent drainage access route
- Proposed UKPN overhead line dismantle towers
- Proposed 11kV overhead line mitigation
- Proposed 11kV underground cable alignment mitigation
- Proposed 33kV overhead line mitigation
- Proposed 33kV underground cable alignment mitigation
- Proposed permanent spoil bund hatch
- Proposed permanent road widening
- Proposed UKPN tower dismantle assets
- Proposed underground cable/CSE compound/substation/outfall watercourse crossing - permanent
- Proposed UKPN dismantle centreline
- Proposed UKPN Cable Centreline

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

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| Rev | Date | Description | Drawn | Check | Approv |

PROJECT: **Norwich to Tilbury**

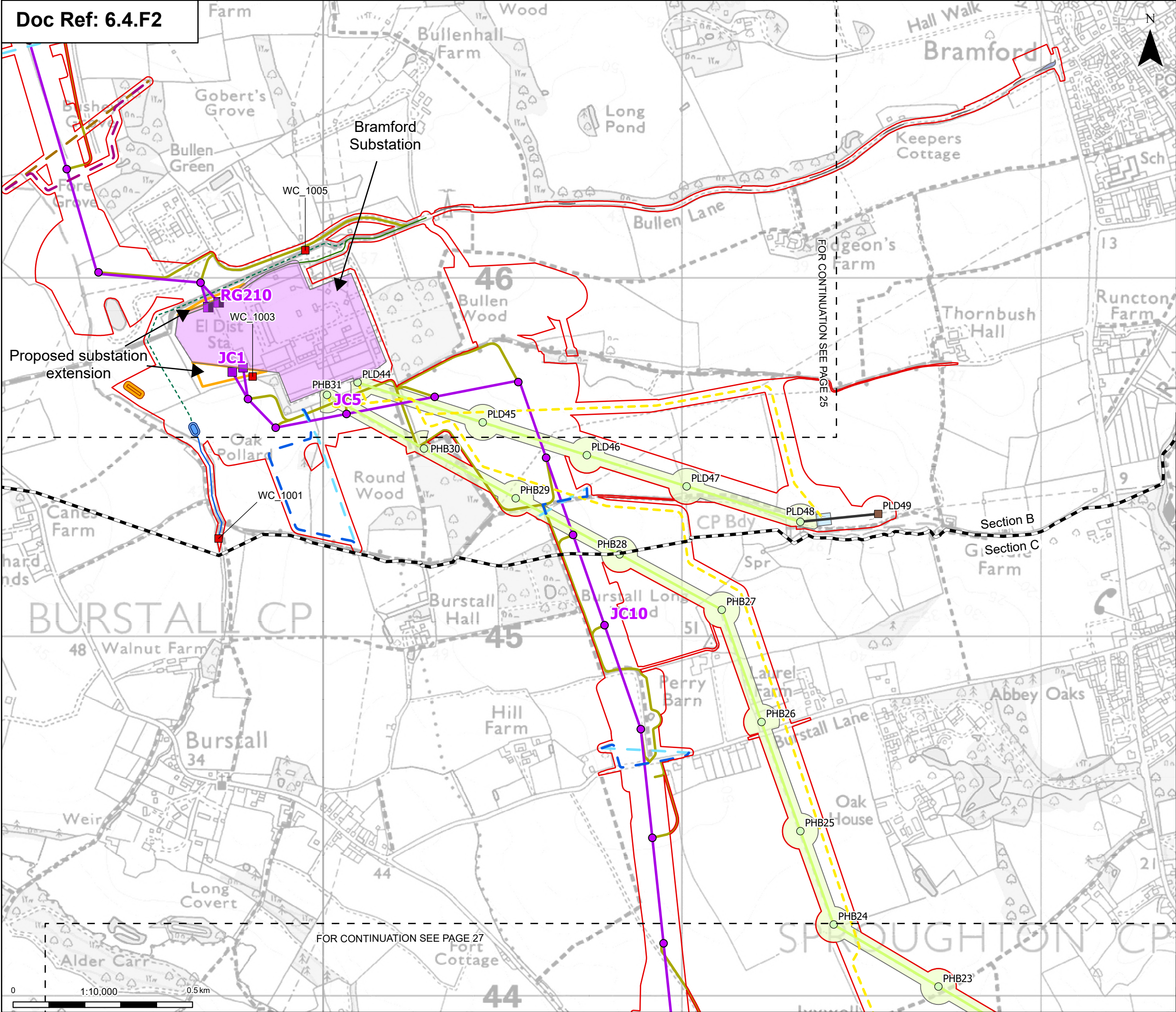
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title: **Figure 4.2 - Project Description - Proposed Project Design - Permanent Features Section B Page 25 of 63**

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|-------------------|------------|-----------------|-----------|
| Designed | A. Fell | 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: | 1:10,000 | Datum: | AOD |
| Original Size: | A3 | Grid: | OS |
| Suitability Code: | A2 | Project Number: | 10059280 |

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| Drawing Number: | 10059280-ARC-EGN-ZZ-DR-ZZ-00206 | Revision: | A |
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- Order limits

Project section line

Sheet index outline

Bramford Substation

Proposed permanent design details

Proposed full line tension gantry

Proposed low duty gantry

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed Substation / Cable Sealing End (CSE) compound permanent access routes

Proposed permanent access (no physical works)

Proposed BT overhead line mitigation

Proposed Bramford Substation Extension

Proposed permanent attenuation drainage channel

Proposed permanent attenuation drainage pond

Proposed permanent drainage access route

Proposed UKPN overhead line dismantle towers

Proposed UKPN overhead line existing tower (to be modified)

Proposed 11kV overhead line mitigation

Proposed 11kV underground cable alignment mitigation

Proposed 33kV overhead line mitigation

Proposed 33kV underground cable alignment mitigation

Proposed permanent spoil bund hatch

Proposed permanent road widening

Proposed UKPN cable sealing end platform

Proposed UKPN tower dismantle assets

Proposed underground cable/CSE compound/substation/outfall watercourse crossing - permanent

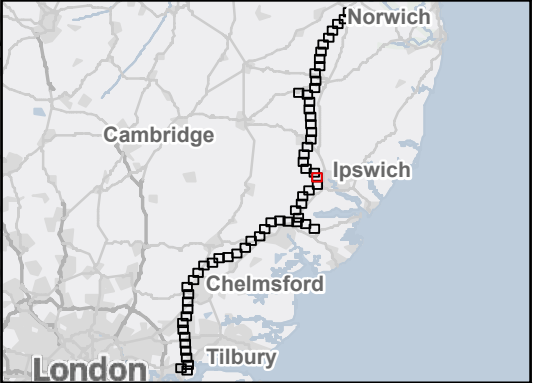
Proposed UKPN dismantle centreline

Proposed UKPN existing centreline (modified)

Proposed UKPN Cable Centreline

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

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PROJECT: **nationalgrid** Norwich to Tilbury

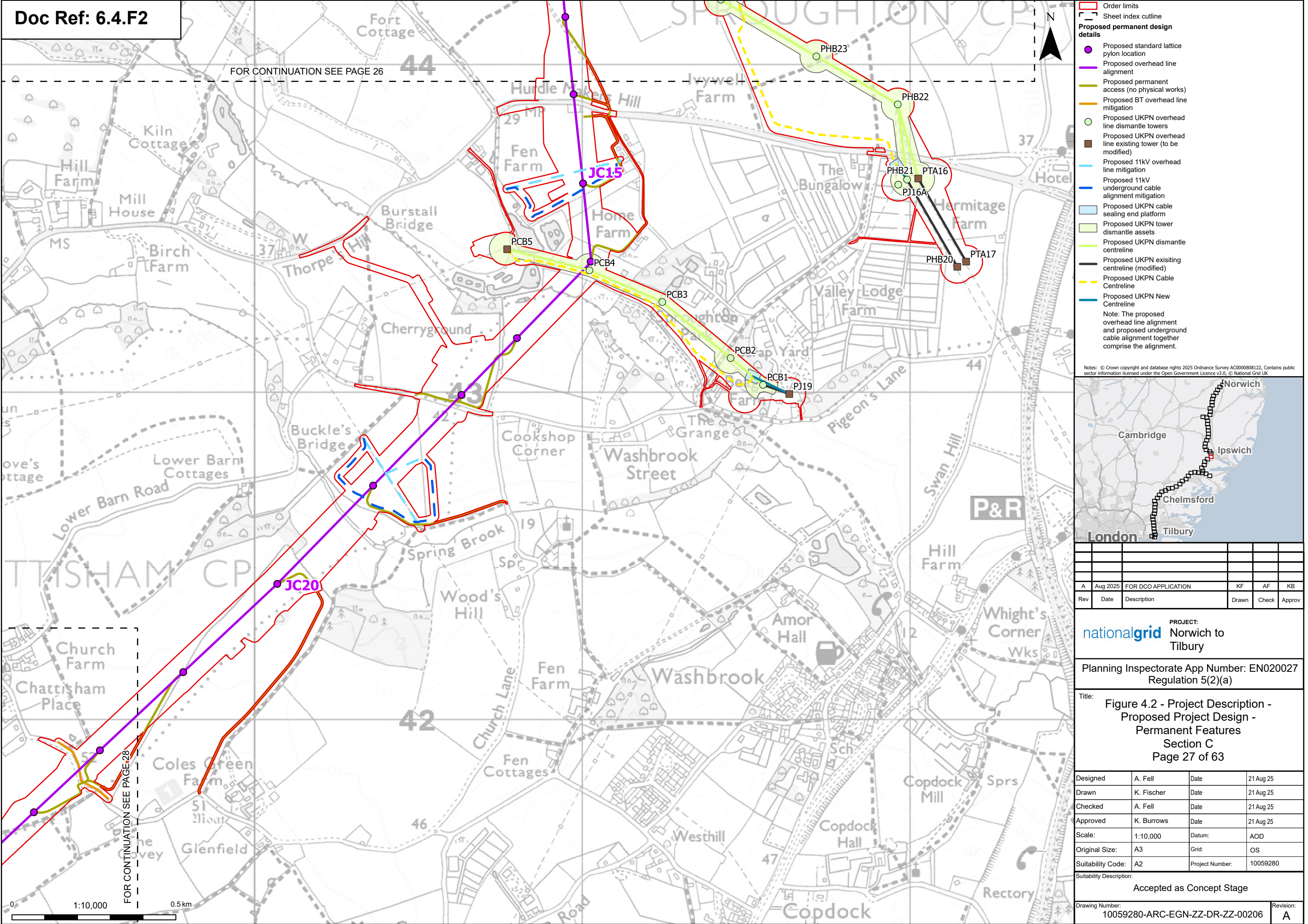
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Regulation 5(2)(a)

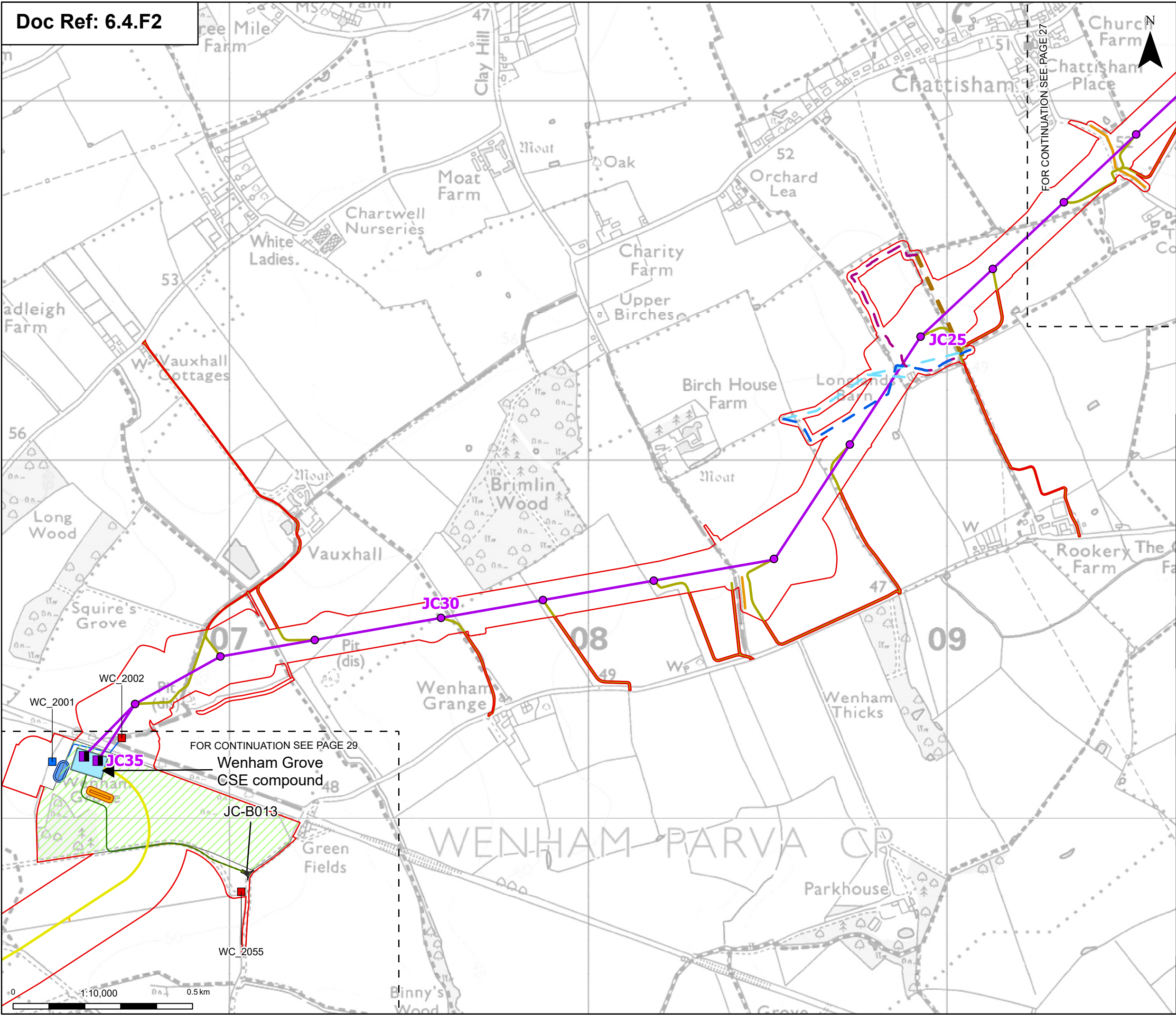
Title: **Figure 4.2 - Project Description - Proposed Project Design - Permanent Features Sections B and C**
Page 26 of 63

| | | | |
|-------------------|------------|-----------------|-----------|
| Designed | A. Fell | 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: | 1:10,000 | Datum: | AOD |
| Original Size: | A3 | Grid: | OS |
| Suitability Code: | A2 | Project Number: | 10059280 |

Suitability Description: **Accepted as Concept Stage**

Drawing Number: **10059280-ARC-EGN-ZZ-DR-ZZ-00206** Revision: **A**





- Order limits

Sheet index outline

Proposed permanent design details

Proposed full line tension gantry

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed underground cable alignment

Proposed Substation / Cable Sealing End (CSE) compound permanent access routes

Proposed permanent access (no physical works)

Proposed BT overhead line mitigation

Proposed cable sealing end (CSE) compound

Proposed Environmental Areas - Permanent

Proposed permanent attenuation drainage channel

Proposed permanent attenuation drainage pond

Proposed 11kV overhead line mitigation

Proposed 11kV underground cable alignment mitigation

Proposed 33kV overhead line mitigation

Proposed 33kV underground cable alignment mitigation

Proposed cable permanent access (no physical works)

Proposed permanent spoil bund hatch

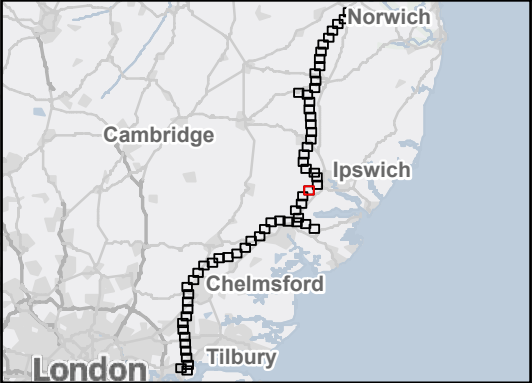
Proposed permanent site access points

Proposed underground cable/CSE compound/substation/outfall watercourse crossing - permanent

Proposed underground cable/CSE compound/substation/outfall watercourse crossing - temporary and permanent

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

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PROJECT:
nationalgrid Norwich to Tilbury

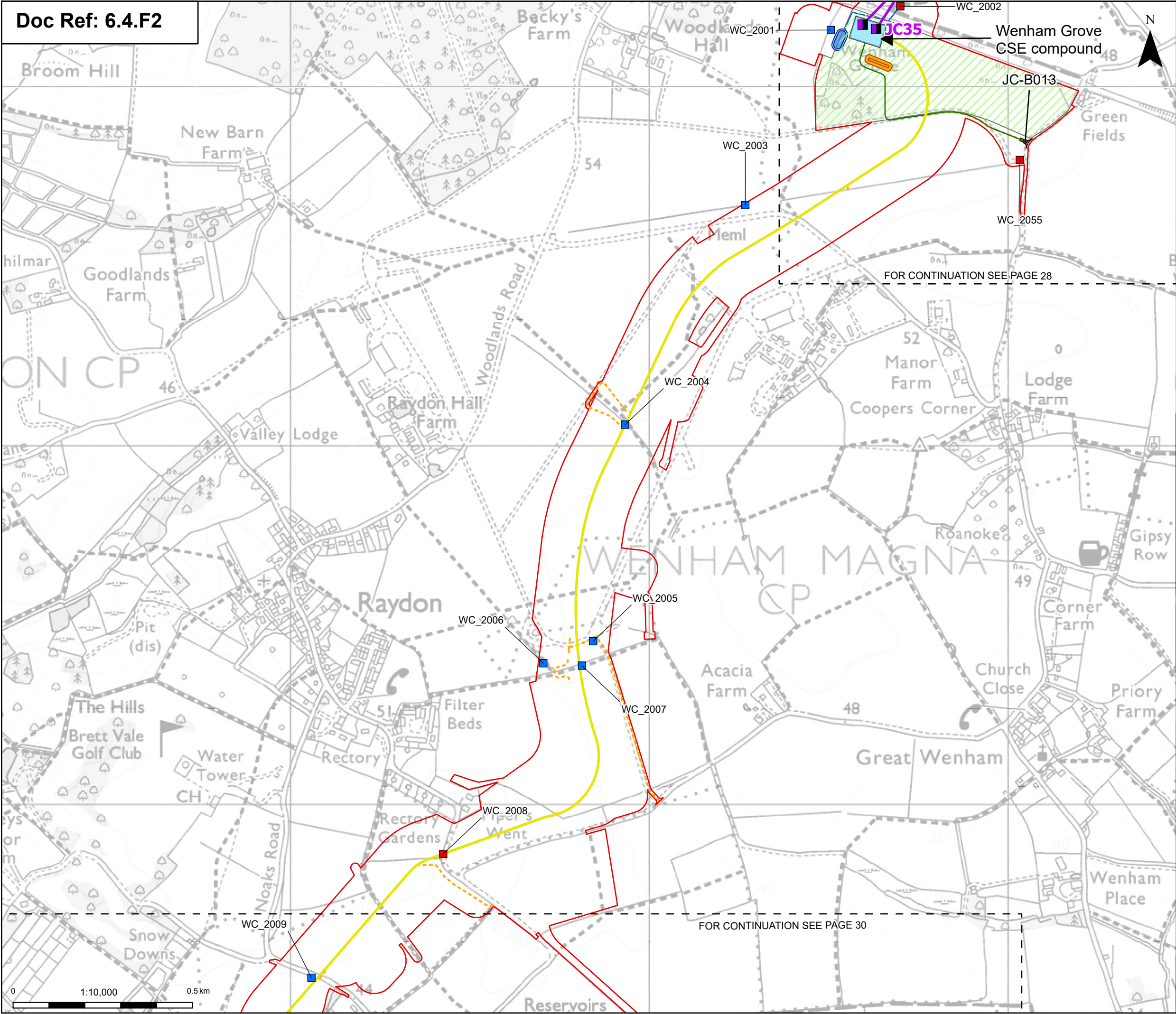
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Regulation 5(2)(a)

Title:
Figure 4.2 - Project Description - Proposed Project Design - Permanent Features
Section C
Page 28 of 63

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|-------------------|------------|-----------------|-----------|
| Designed | A. Fell | Date | 21 Aug 25 |
| Drawn | K. Fischer | Date | 21 Aug 25 |
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Suitability Description:
Accepted as Concept Stage

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| Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00206 | Revision: A |
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Order limits

Sheet index outline

Proposed permanent design details

Proposed full line tension gantry

Proposed overhead line alignment

Proposed underground cable alignment

Proposed Substation / Cable Sealing End (CSE) compound permanent access routes

Proposed cable sealing end (CSE) compound

Proposed Environmental Areas - Permanent

Proposed permanent attenuation drainage channel

Proposed permanent attenuation drainage pond

Proposed cable permanent access (no physical works)

Proposed permanent spoil bund hatch

Proposed permanent site access points

Proposed underground cable/CSE compound/substation/outfall watercourse crossing - permanent

Proposed underground cable/CSE compound/substation/outfall watercourse crossing - temporary and permanent

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

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PROJECT:
nationalgrid Norwich to Tilbury

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

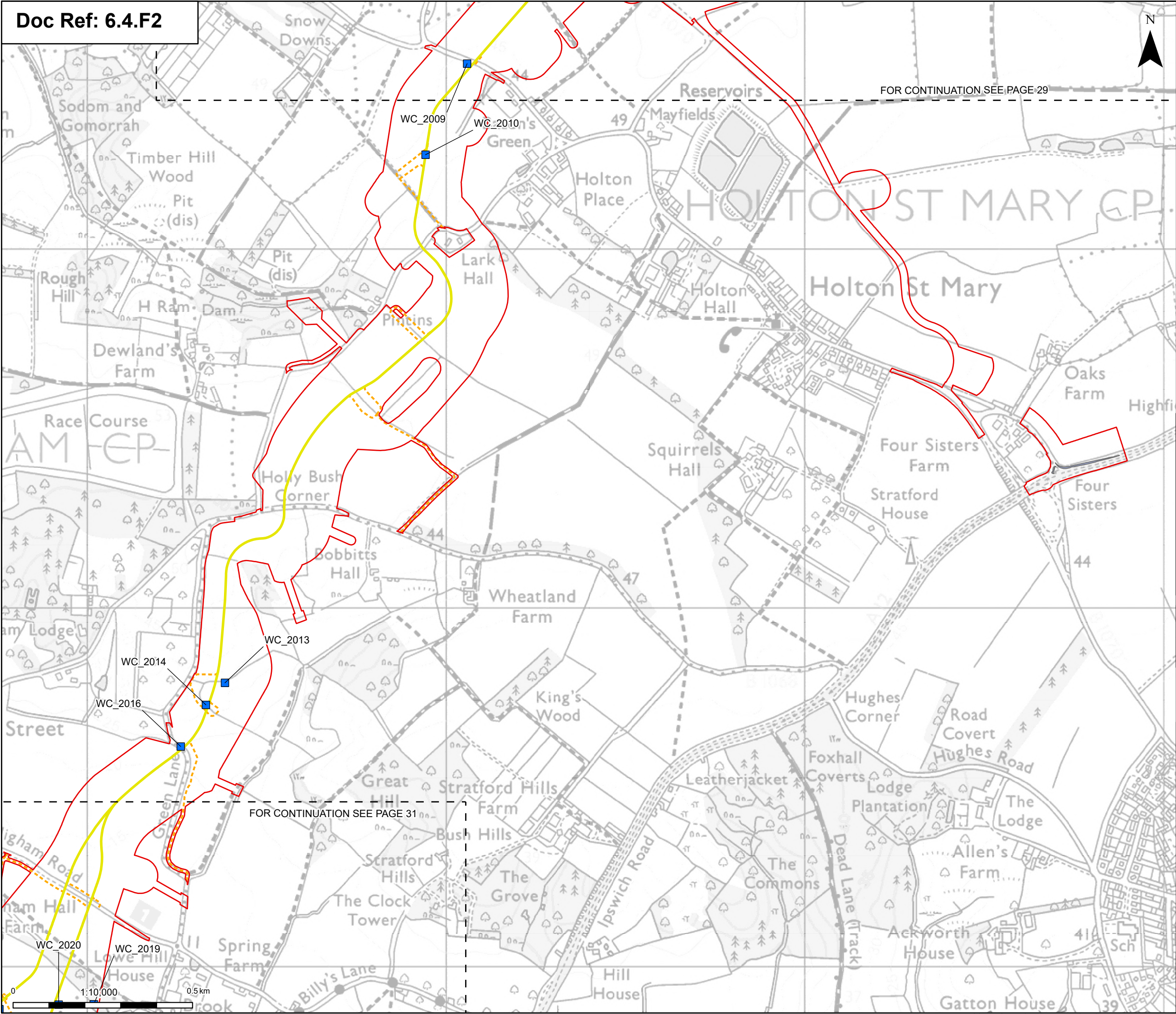
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Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Section C
Page 29 of 63

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|-------------------|------------|-----------------|-----------|
| Designed | A. Fell | Date | 21 Aug 25 |
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Suitability Description:
Accepted as Concept Stage

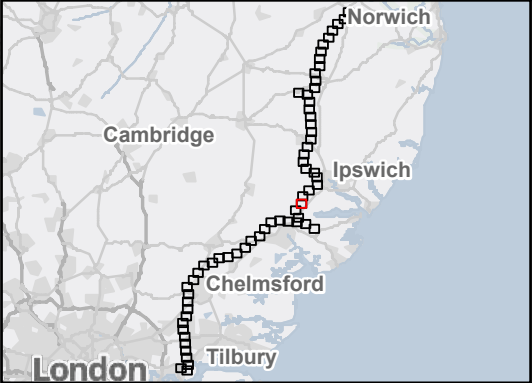
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Order limits
Sheet index cutline
Proposed underground cable alignment
Proposed cable permanent access (no physical works)
Proposed permanent road widening
Proposed underground cable/CSE compound/substation/outfall watercourse crossing - temporary and permanent
Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment.

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PROJECT:
nationalgrid Norwich to Tilbury

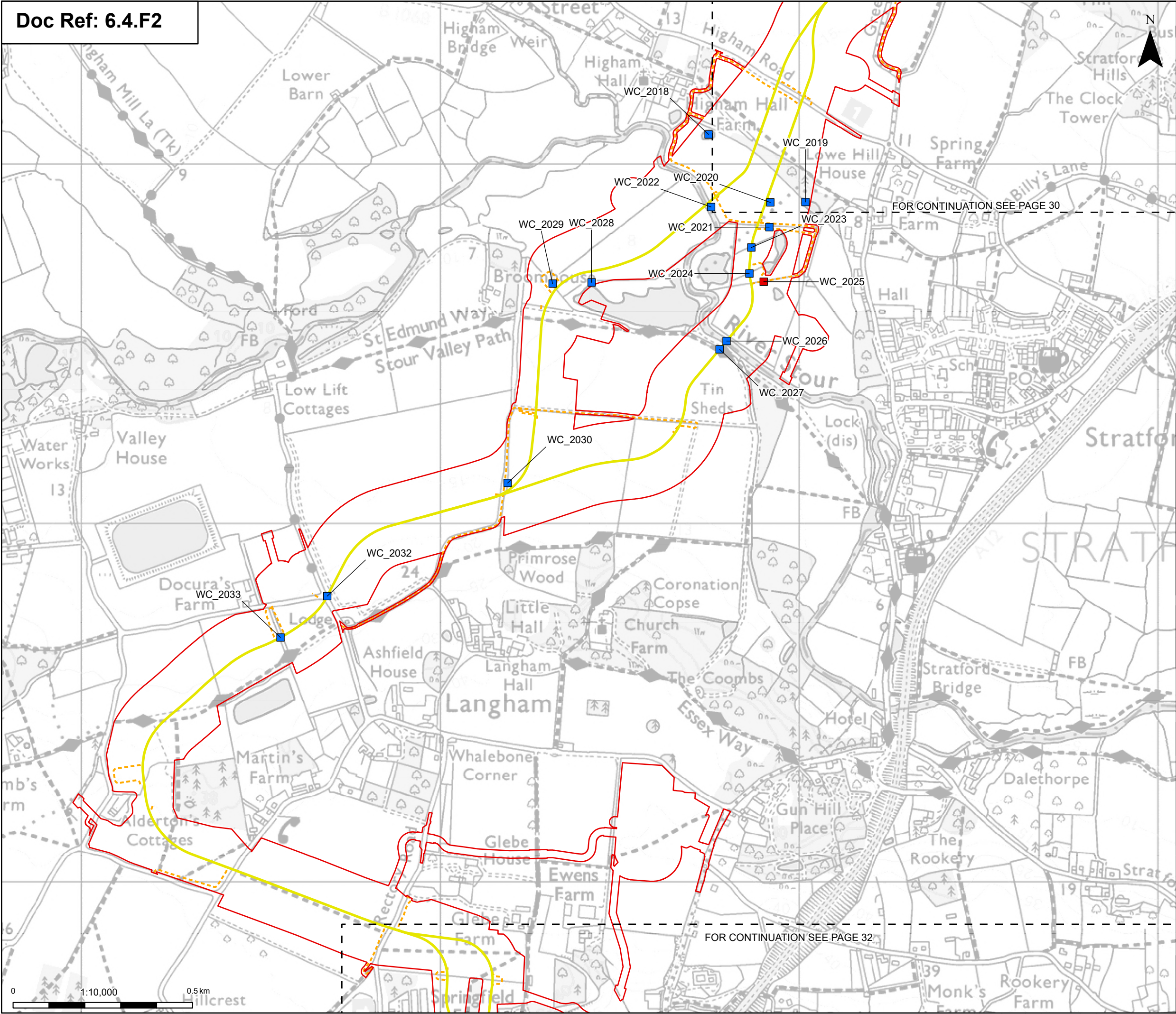
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Regulation 5(2)(a)

Title:
Figure 4.2 - Project Description - Proposed Project Design - Permanent Features
Section C
Page 30 of 63

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|-------------------|------------|-----------------|-----------|
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| Drawn | K. Fischer | Date | 21 Aug 25 |
| Checked | A. Fell | Date | 21 Aug 25 |
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Suitability Description:
Accepted as Concept Stage

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| Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00206 | Revision: A |
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Order limits

Sheet index cutline

Proposed underground cable alignment

Proposed cable permanent access (no physical works)

Proposed underground cable/CSE compound/substation/outfall

watercourse crossing - permanent

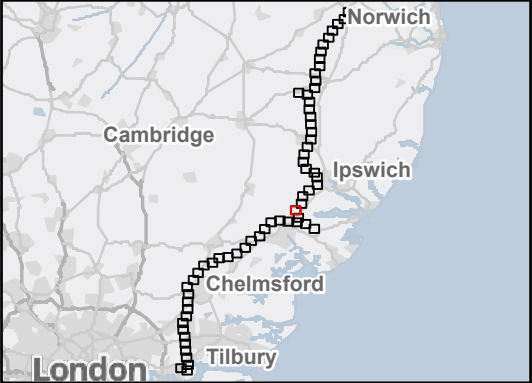
Proposed underground cable/CSE compound/substation/outfall

watercourse crossing - temporary and permanent

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

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nationalgrid

PROJECT:

Norwich to Tilbury

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

Title: **Figure 4.2 - Project Description - Proposed Project Design - Permanent Features Section C**
Page 31 of 63

| | | | |
|-------------------|------------|-----------------|-----------|
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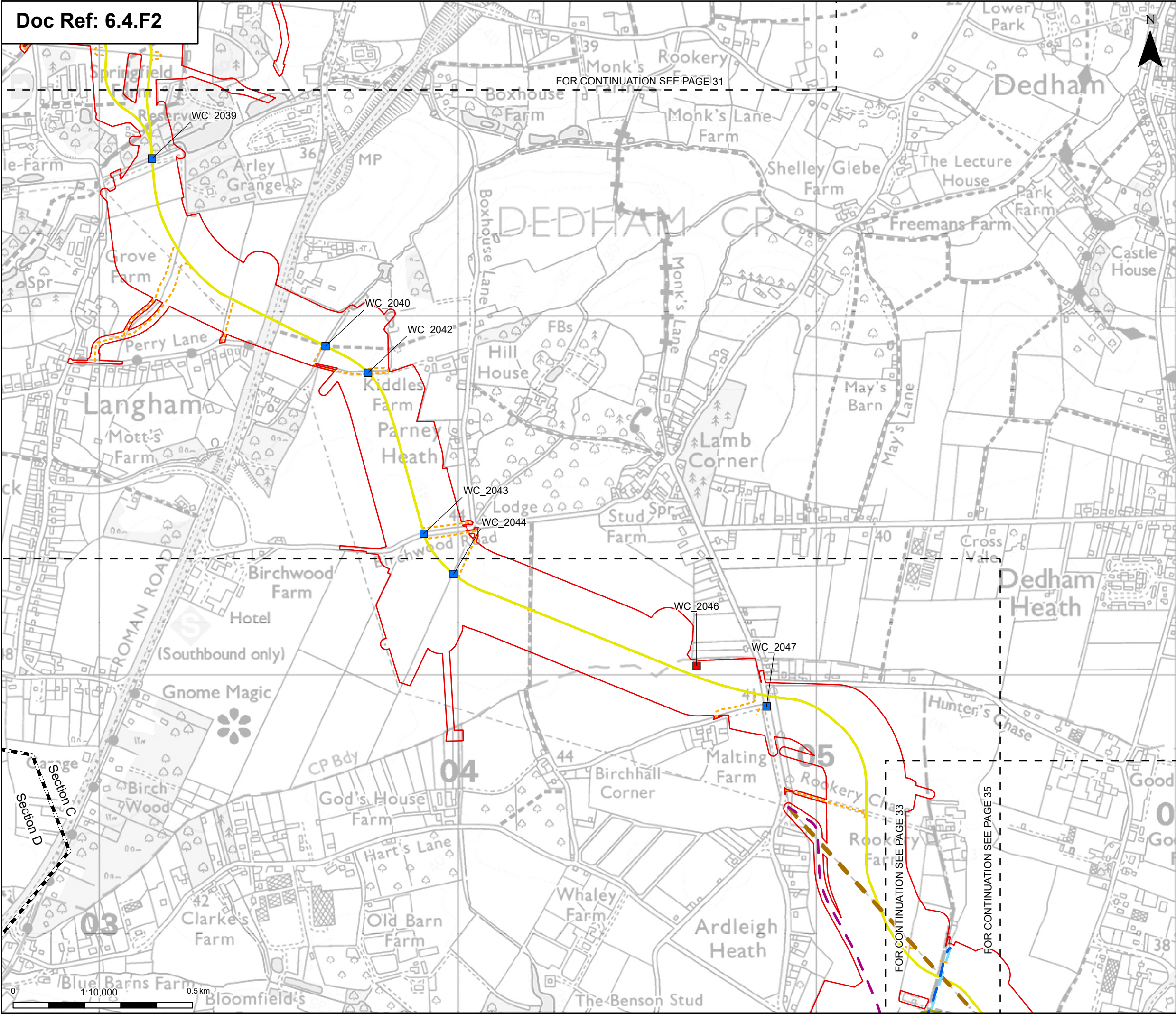
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Accepted as Concept Stage

Drawing Number:

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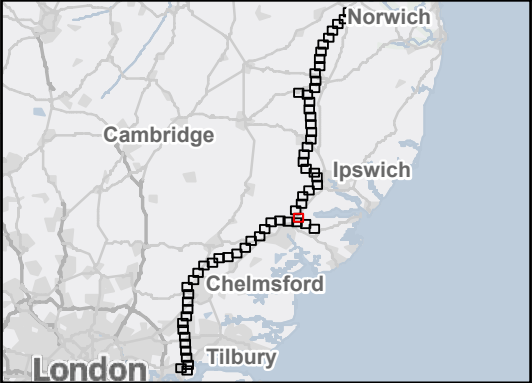
Revision:

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- Order limits
- Project section line
- Sheet index cutline
- Proposed underground cable alignment
- Proposed permanent access (no physical works)
- Proposed 11kV overhead line mitigation
- Proposed 11kV underground cable alignment mitigation
- Proposed 33kV overhead line mitigation
- Proposed 33kV underground cable alignment mitigation
- Proposed cable permanent access (no physical works)
- Proposed underground cable/CSE compound/substation/outfall
- watercourse crossing - permanent
- Proposed underground cable/CSE compound/substation/outfall
- watercourse crossing - temporary and permanent
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment.

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| Rev | Date | Description | Drawn | Check | Approv |

PROJECT:
nationalgrid Norwich to
Tilbury

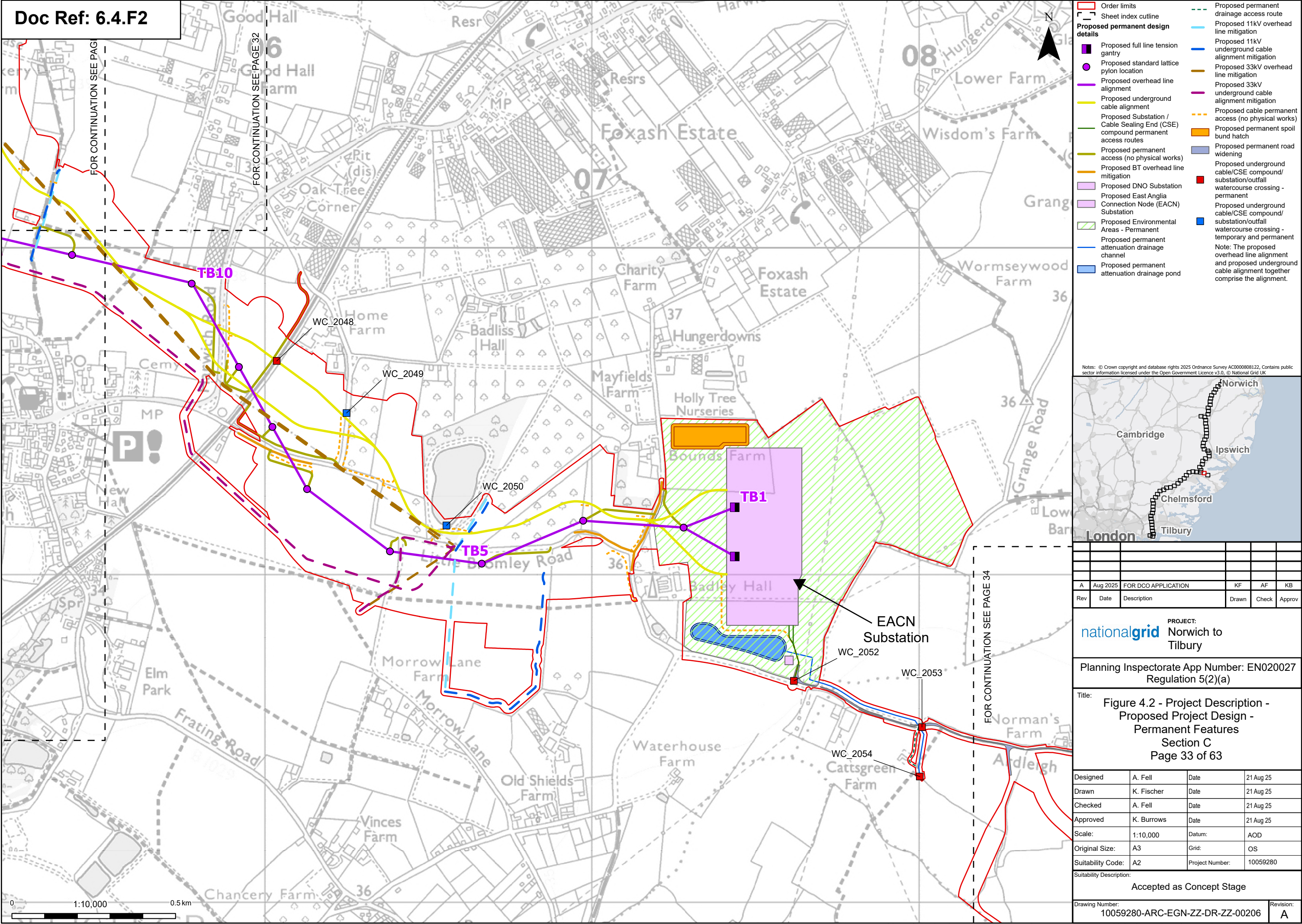
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Regulation 5(2)(a)

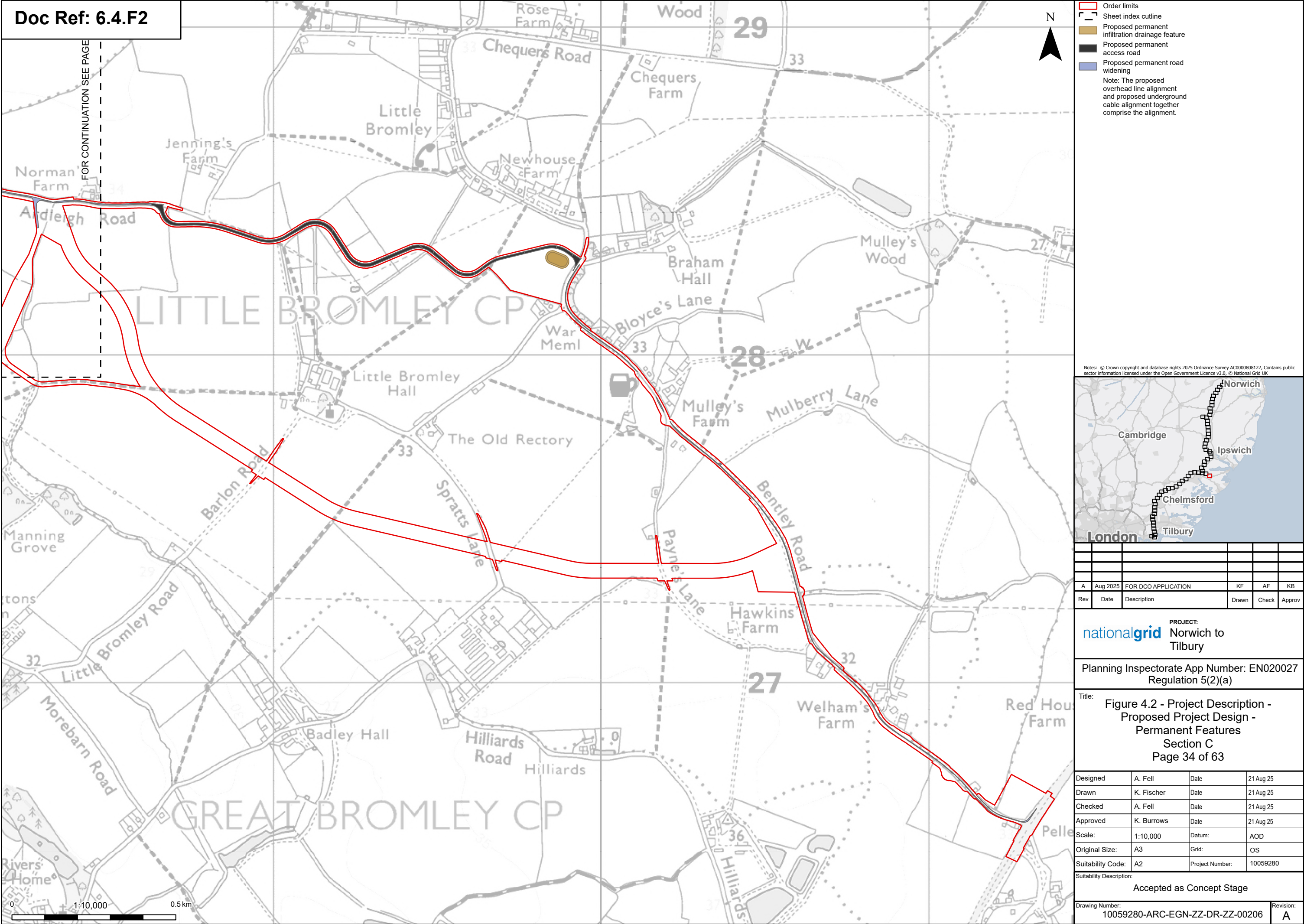
Title:
Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Sections C and D
Page 32 of 63

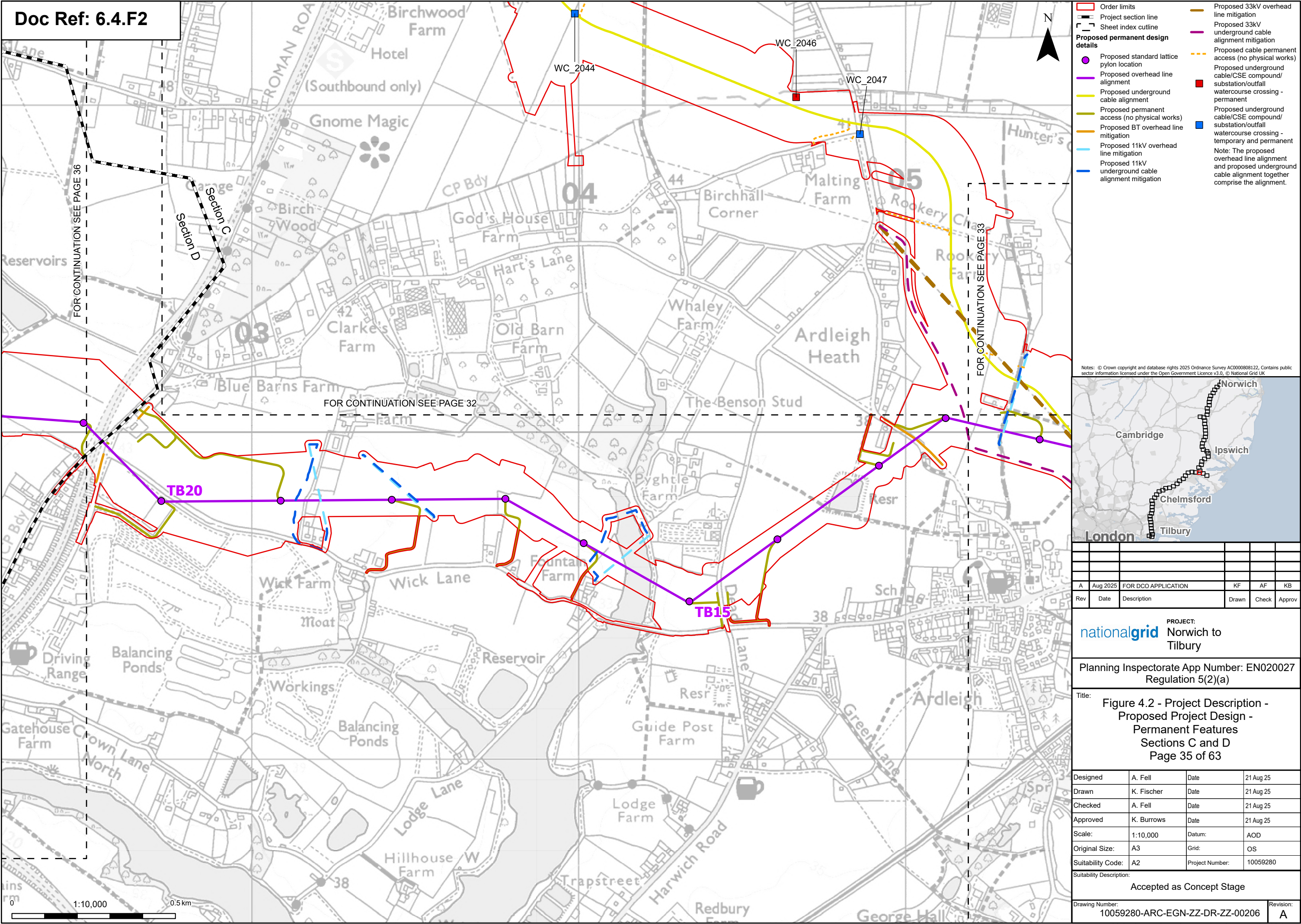
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| Drawn | K. Fischer | Date | 21 Aug 25 |
| Checked | A. Fell | Date | 21 Aug 25 |
| Approved | K. Burrows | Date | 21 Aug 25 |
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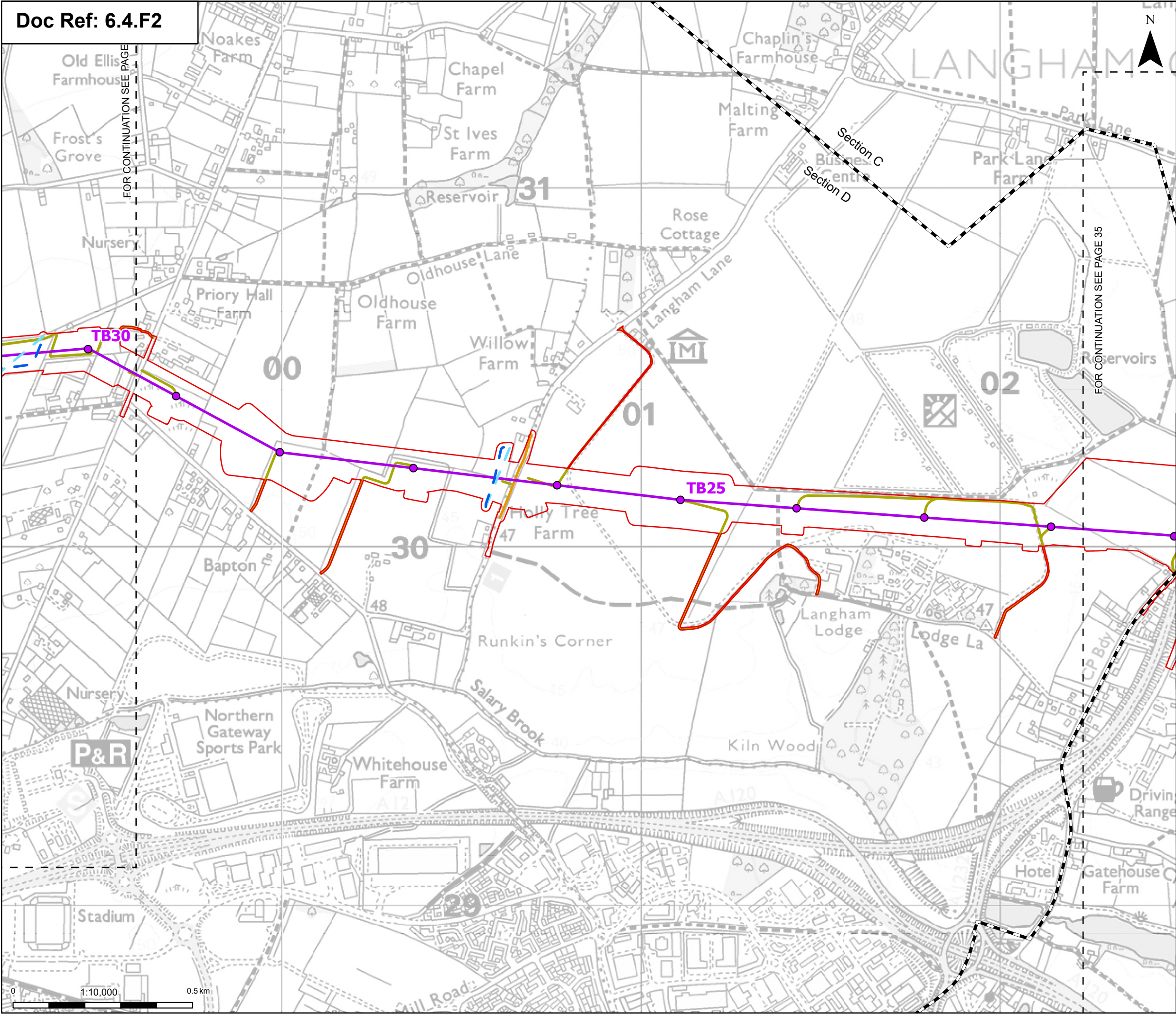
Suitability Description:
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| Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00206 | Revision: A |
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Order limits

Project section line

Sheet index cutline

Proposed permanent design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed permanent access (no physical works)

Proposed BT overhead line mitigation

Proposed 11kV overhead line mitigation

Proposed 11kV underground cable alignment mitigation

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

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PROJECT:

nationalgrid

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure 4.2 - Project Description - Proposed Project Design - Permanent Features Sections C and D

Page 36 of 63

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| Designed | A. Fell | Date | 21 Aug 25 |
| Drawn | K. Fischer | Date | 21 Aug 25 |
| Checked | A. Fell | Date | 21 Aug 25 |
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Drawing Number:

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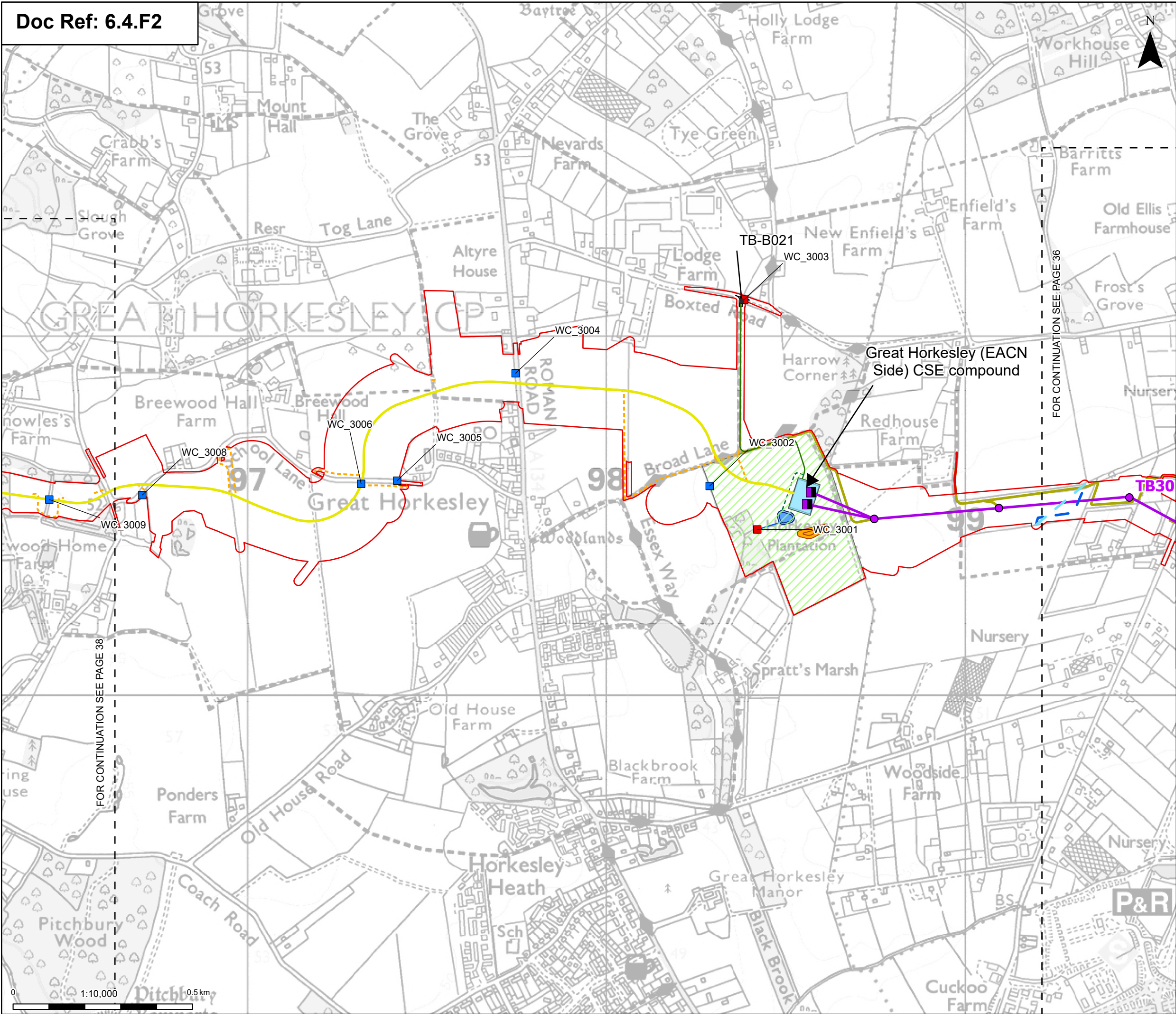
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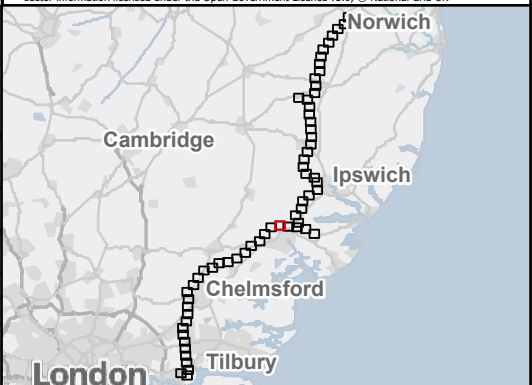
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- Order limits
- Sheet index outline
- Proposed permanent design details
 - Proposed full line tension gantry
 - Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Proposed underground cable alignment
 - Proposed Substation / Cable Sealing End (CSE) compound permanent access routes
 - Proposed permanent access (no physical works)
 - Proposed cable sealing end (CSE) compound
 - Proposed Environmental Areas - Permanent
 - Proposed permanent attenuation drainage channel
 - Proposed permanent attenuation drainage pond
- Proposed permanent drainage access route
- Proposed 11kV overhead line mitigation
- Proposed 11kV underground cable alignment mitigation
- Proposed cable permanent access (no physical works)
- Proposed permanent spoil bund hatch
- Proposed permanent site access points
- Proposed underground cable/CSE compound/substation/outfall watercourse crossing - permanent
- Proposed underground cable/CSE compound/substation/outfall watercourse crossing - temporary and permanent
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment.

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PROJECT: **nationalgrid** Norwich to Tilbury

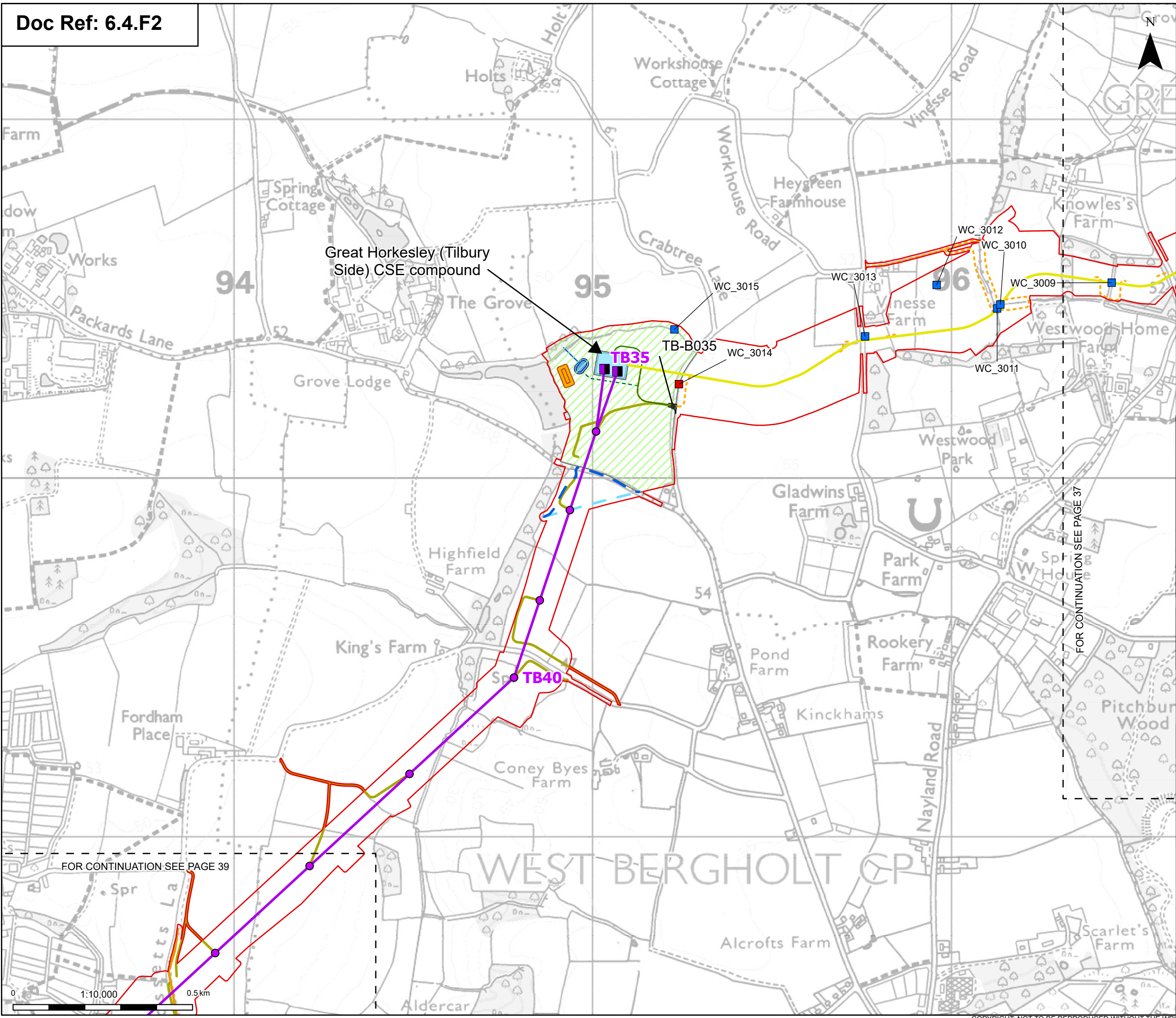
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Regulation 5(2)(a)

Title: **Figure 4.2 - Project Description - Proposed Project Design - Permanent Features Section D Page 37 of 63**

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| Drawn | K. Fischer | Date | 21 Aug 25 |
| Checked | A. Fell | Date | 21 Aug 25 |
| Approved | K. Burrows | Date | 21 Aug 25 |
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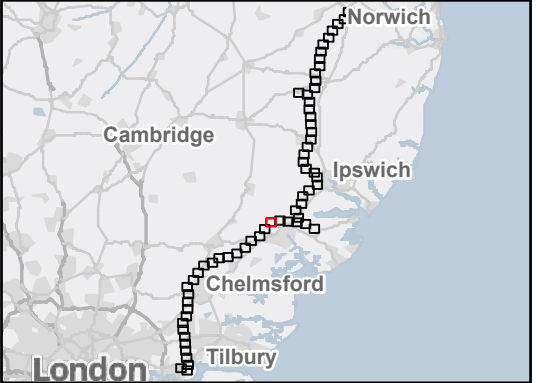
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| Drawing Number: | 10059280-ARC-EGN-ZZ-DR-ZZ-00206 | Revision: | A |
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- Order limits
- Sheet index outline
- Proposed permanent design details
 - Proposed full line tension gantry
 - Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Proposed underground cable alignment
 - Proposed Substation / Cable Sealing End (CSE) compound permanent access routes
 - Proposed permanent access (no physical works)
 - Proposed BT overhead line mitigation
 - Proposed cable sealing end (CSE) compound
 - Proposed Environmental Areas - Permanent
 - Proposed permanent attenuation drainage channel
 - Proposed permanent attenuation drainage pond
- Proposed permanent drainage access route
- Proposed 11kV overhead line mitigation
- Proposed 11kV underground cable alignment mitigation
- Proposed cable permanent access (no physical works)
- Proposed permanent spoil bund hatch
- Proposed permanent site access points
- Proposed underground cable/CSE compound/substation/outfall watercourse crossing - permanent
- Proposed underground cable/CSE compound/substation/outfall watercourse crossing - temporary and permanent
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment.

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PROJECT: **nationalgrid** Norwich to Tilbury

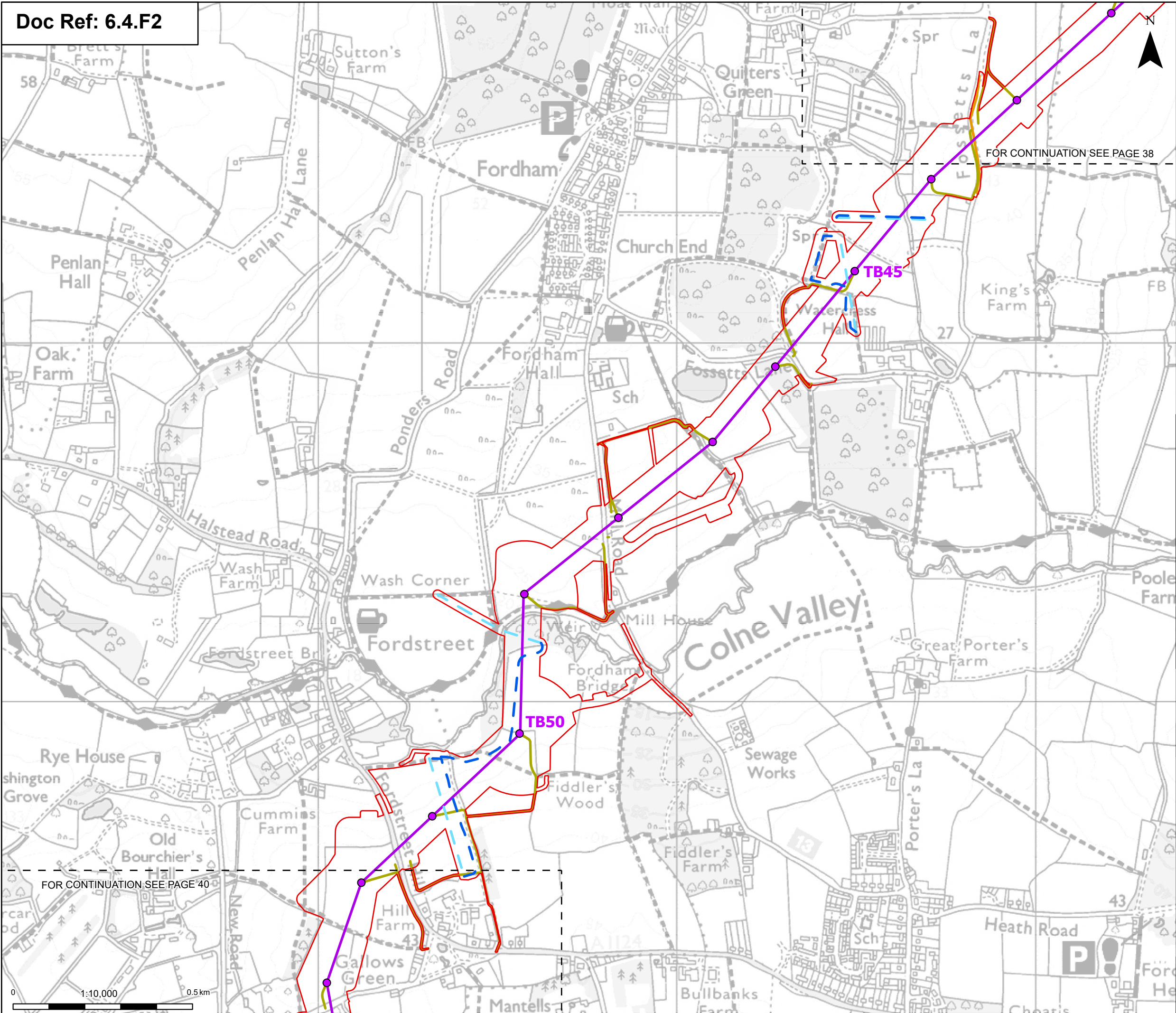
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Regulation 5(2)(a)

Title: **Figure 4.2 - Project Description - Proposed Project Design - Permanent Features**
Section D
Page 38 of 63

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| Drawn | K. Fischer | Date | 21 Aug 25 |
| Checked | A. Fell | Date | 21 Aug 25 |
| Approved | K. Burrows | Date | 21 Aug 25 |
| Scale: | 1:10,000 | Datum: | AOD |
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Suitability Description:
Accepted as Concept Stage

Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00206
Revision: A



Order limits

Sheet index outline

Proposed permanent design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed permanent access (no physical works)

Proposed BT overhead line mitigation

Proposed 11kV overhead line mitigation

Proposed 11kV underground cable alignment mitigation

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

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PROJECT:

nationalgrid

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure 4.2 - Project Description - Proposed Project Design - Permanent Features

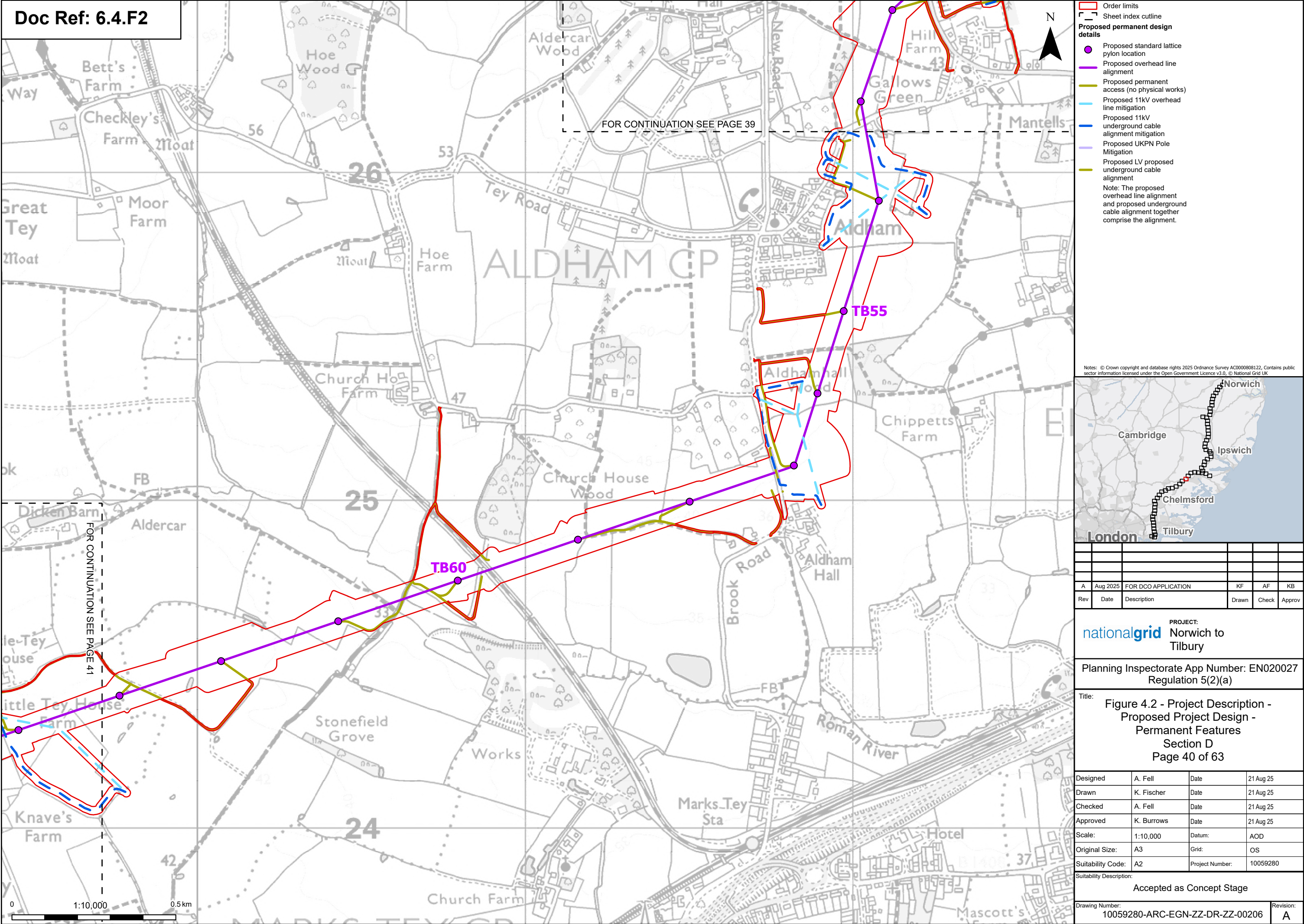
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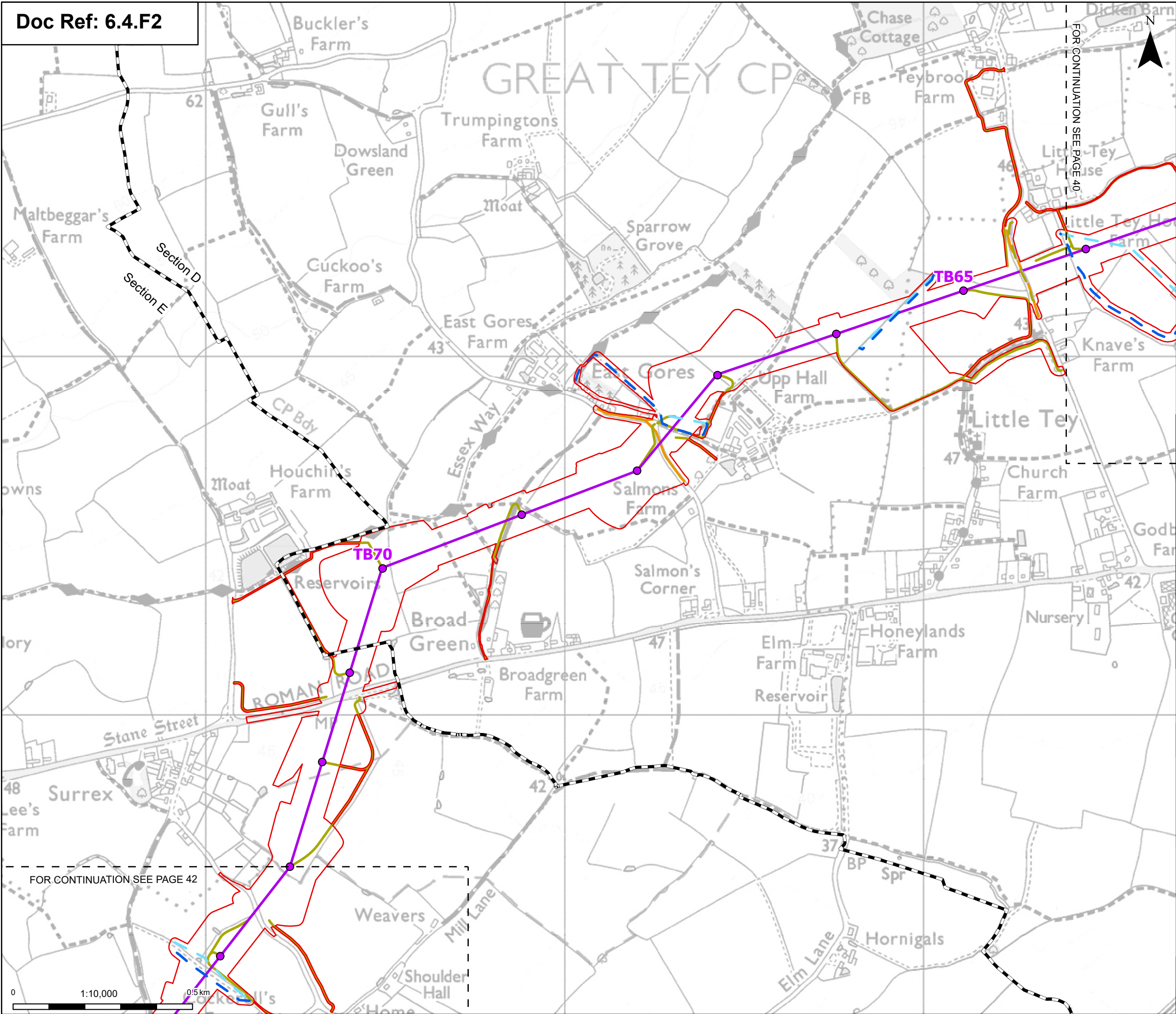
Page 39 of 63

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| Drawn | K. Fischer | Date | 21 Aug 25 |
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Order limits

Project section line

Sheet index outline

Proposed permanent design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed permanent access (no physical works)

Proposed BT overhead line mitigation

Proposed 11kV overhead line mitigation

Proposed 11kV underground cable alignment mitigation

Proposed UKPN Pole Mitigation

Proposed LV proposed underground cable alignment

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

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PROJECT:
nationalgrid Norwich to Tilbury

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

Title:
Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Sections D and E
Page 41 of 63

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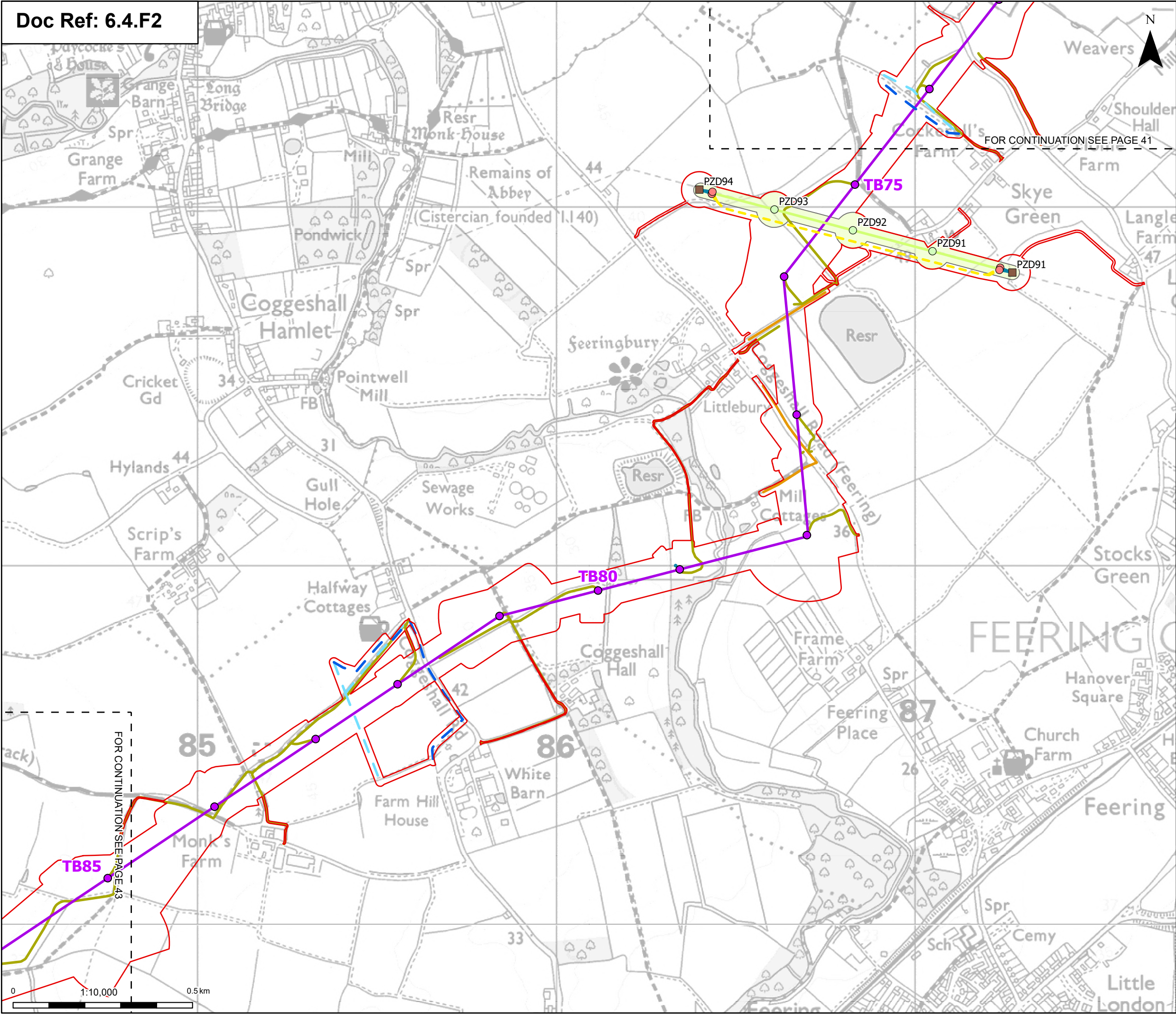
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Drawing Number:
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Revision:
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Order limits

Sheet index outline

Proposed permanent design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed permanent access (no physical works)

Proposed BT overhead line mitigation

Proposed UKPN overhead line dismantle towers

Proposed UKPN overhead line existing tower (to be modified)

Proposed UKPN OHL New H Pole

Proposed 11kV overhead line mitigation

Proposed 11kV underground cable alignment mitigation

Proposed flood compensation mitigation works

Proposed UKPN tower dismantle assets

Proposed UKPN dismantle centreline

Proposed UKPN Cable Centreline

Proposed UKPN New Centreline

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

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Norwich

Cambridge

Ipswich

Chelmsford

Tilbury

London

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PROJECT:

nationalgrid

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

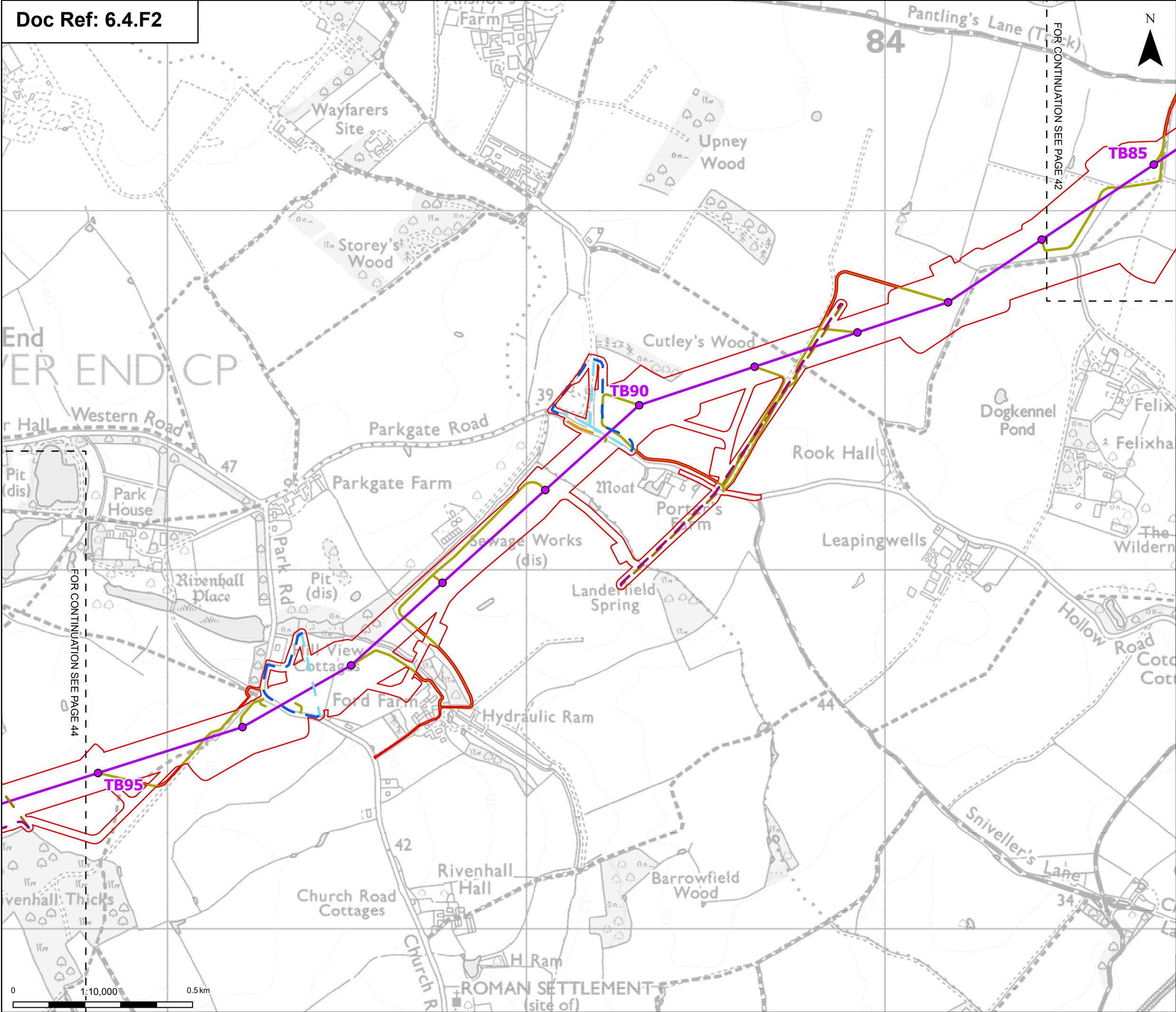
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Title:

Figure 4.2 - Project Description - Proposed Project Design - Permanent Features Section E Page 42 of 63

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Order limits

Sheet index cutline

Proposed permanent design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed permanent access (no physical works)

Proposed BT overhead line mitigation

Proposed 11kV overhead line mitigation

Proposed 11kV underground cable alignment mitigation

Proposed 33kV overhead line mitigation

Proposed 33kV underground cable alignment mitigation

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

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PROJECT:

nationalgrid

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure 4.2 - Project Description - Proposed Project Design - Permanent Features

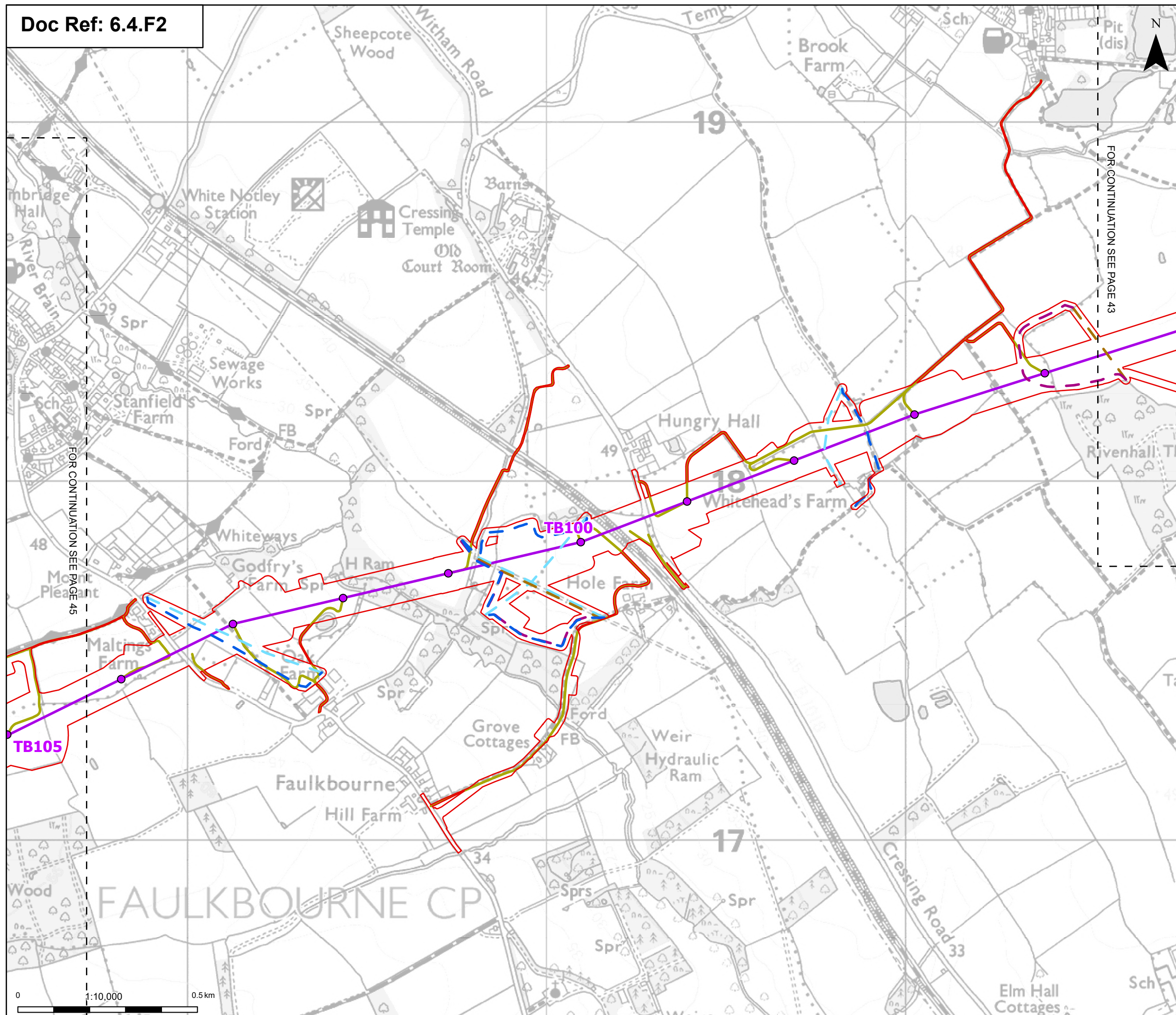
Section E










Page 43 of 63

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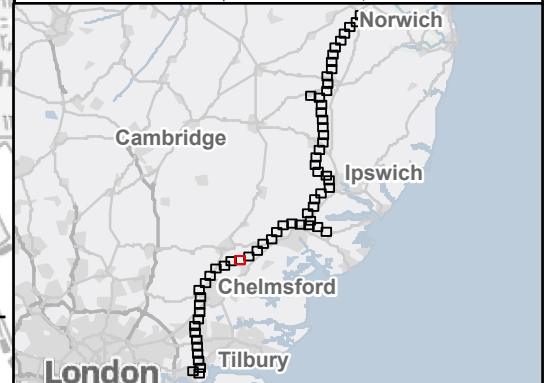
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-  Order limits
-  Sheet index outline
- Proposed permanent design details**
-  Proposed standard lattice pylon location
-  Proposed overhead line alignment
-  Proposed permanent access (no physical works)
-  Proposed 11kV overhead line mitigation
-  Proposed 11kV underground cable alignment mitigation
-  Proposed 33kV overhead line mitigation
-  Proposed 33kV underground cable alignment mitigation
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment.

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nationalgrid PROJECT:
Norwich to
Tilbury

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

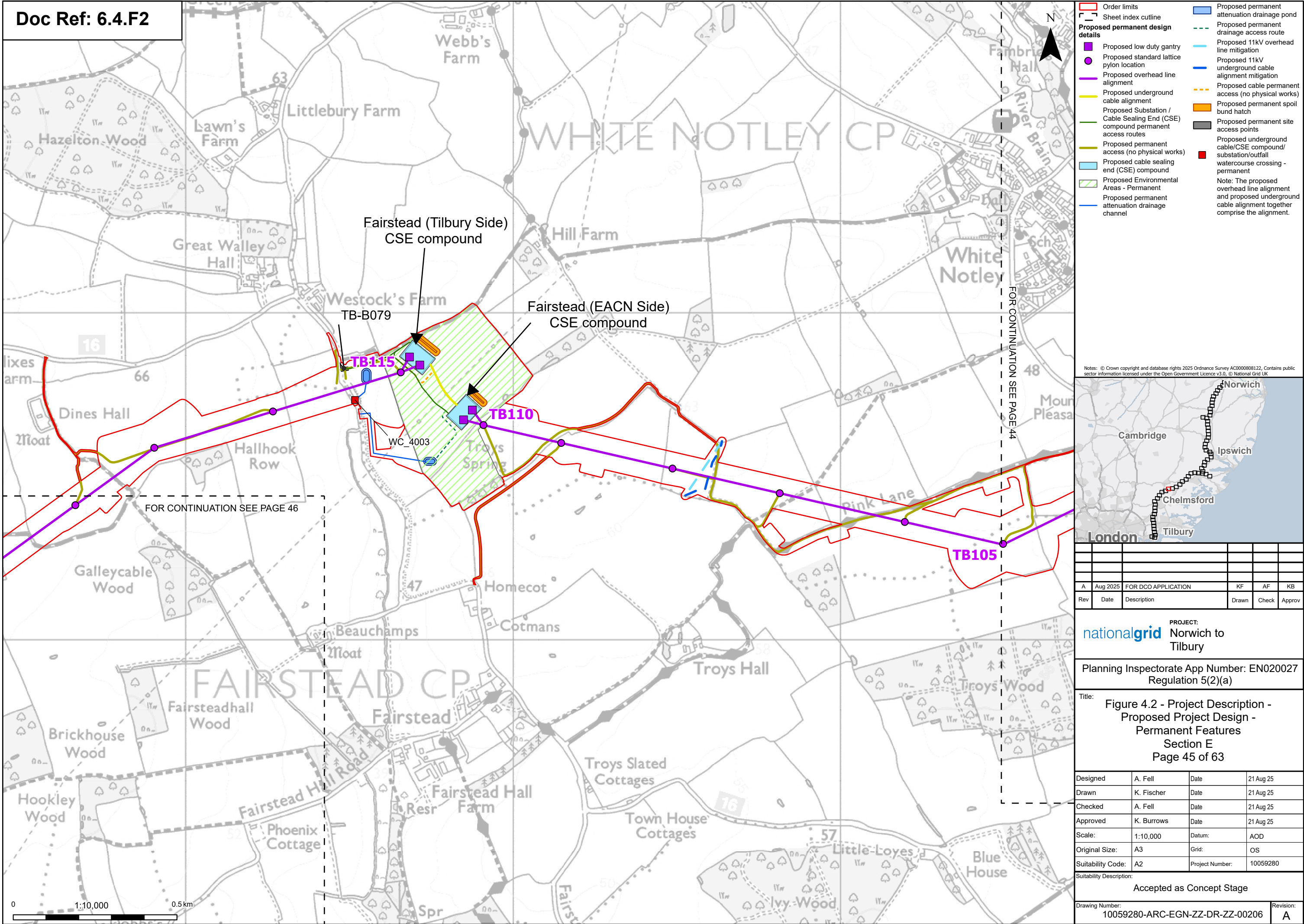
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Proposed Project Design -
Permanent Features
Section E
Page 44 of 63

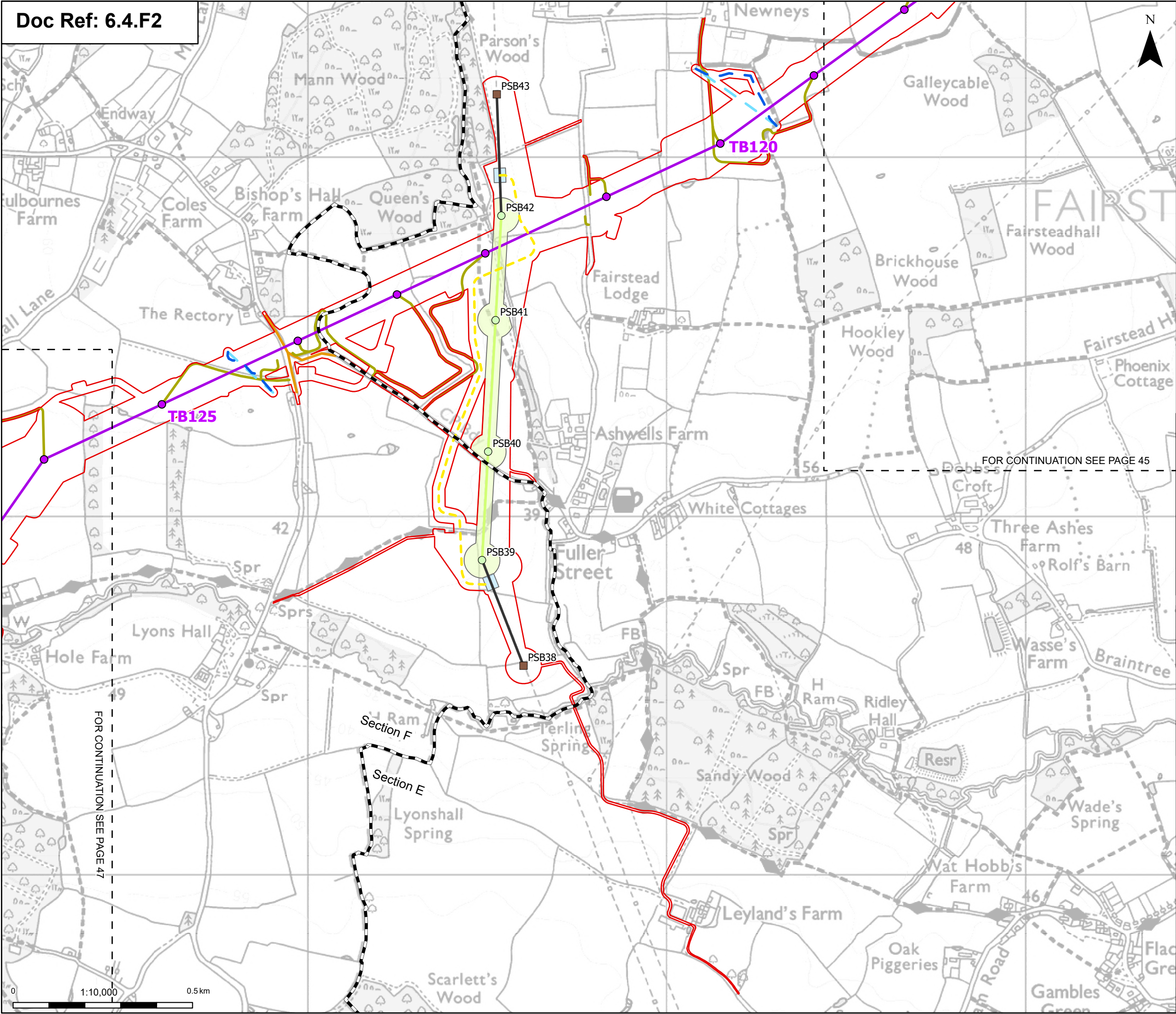
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Suitability Description:

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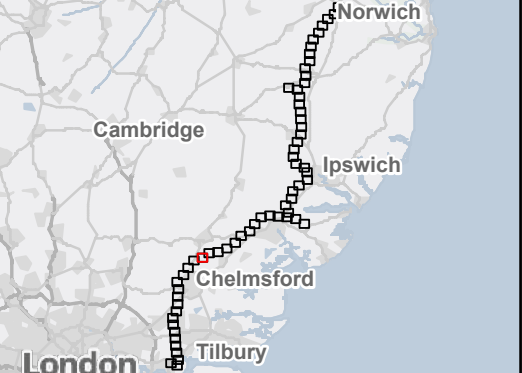
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- Order limits
 - Project section line
 - Sheet index outline
 - Proposed permanent design details**
 - Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Proposed permanent access (no physical works)
 - Proposed BT overhead line mitigation
 - Proposed UKPN overhead line dismantle towers
 - Proposed UKPN overhead line existing tower (to be modified)
 - Proposed 11kV overhead line mitigation
 - Proposed 11kV underground cable alignment mitigation
 - Proposed UKPN cable sealing end platform
 - Proposed UKPN tower dismantle assets
 - Proposed UKPN dismantle centreline
 - Proposed UKPN existing centreline (modified)
 - Proposed UKPN Cable Centreline
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment.

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PROJECT:
nationalgrid Norwich to Tilbury

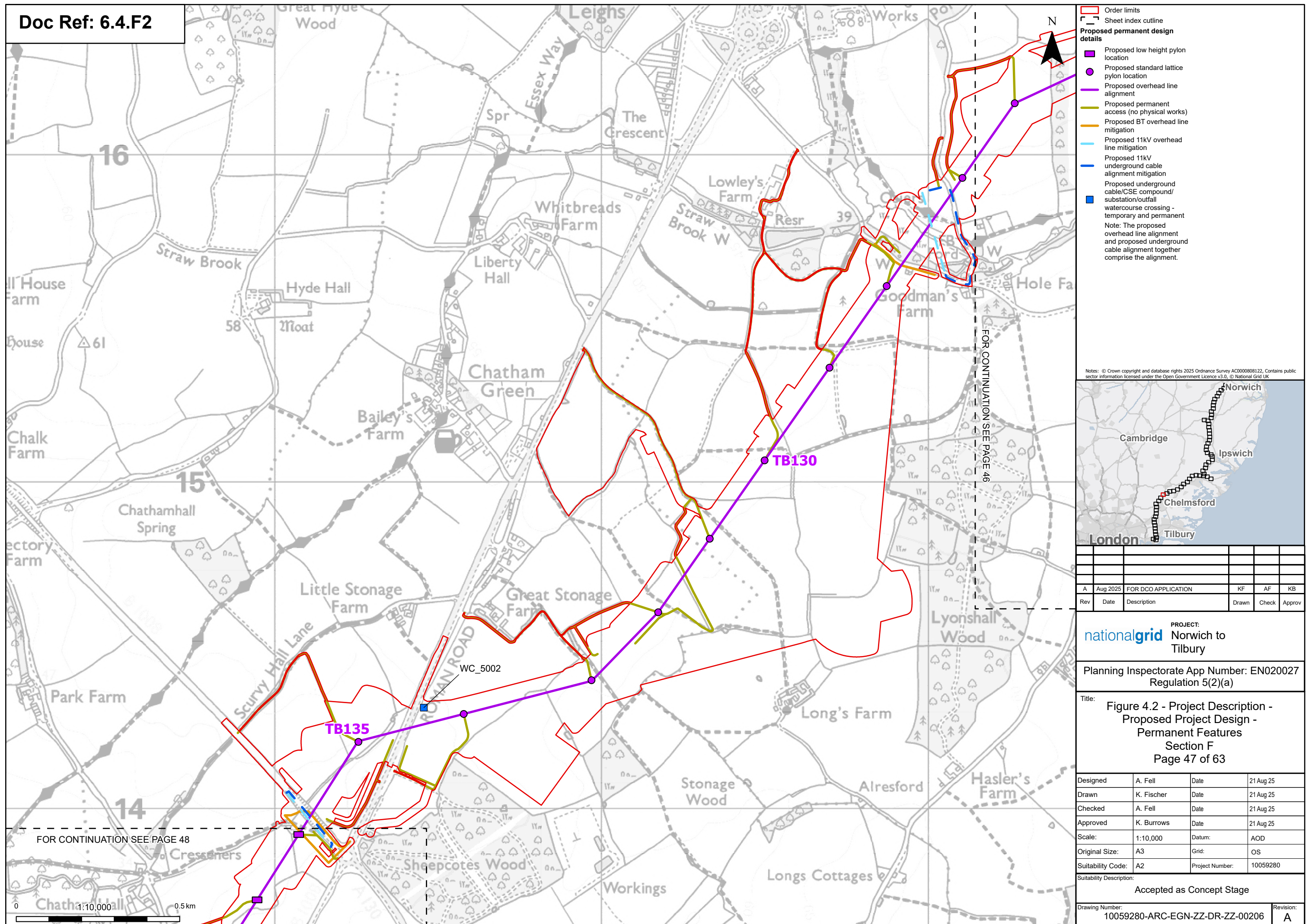
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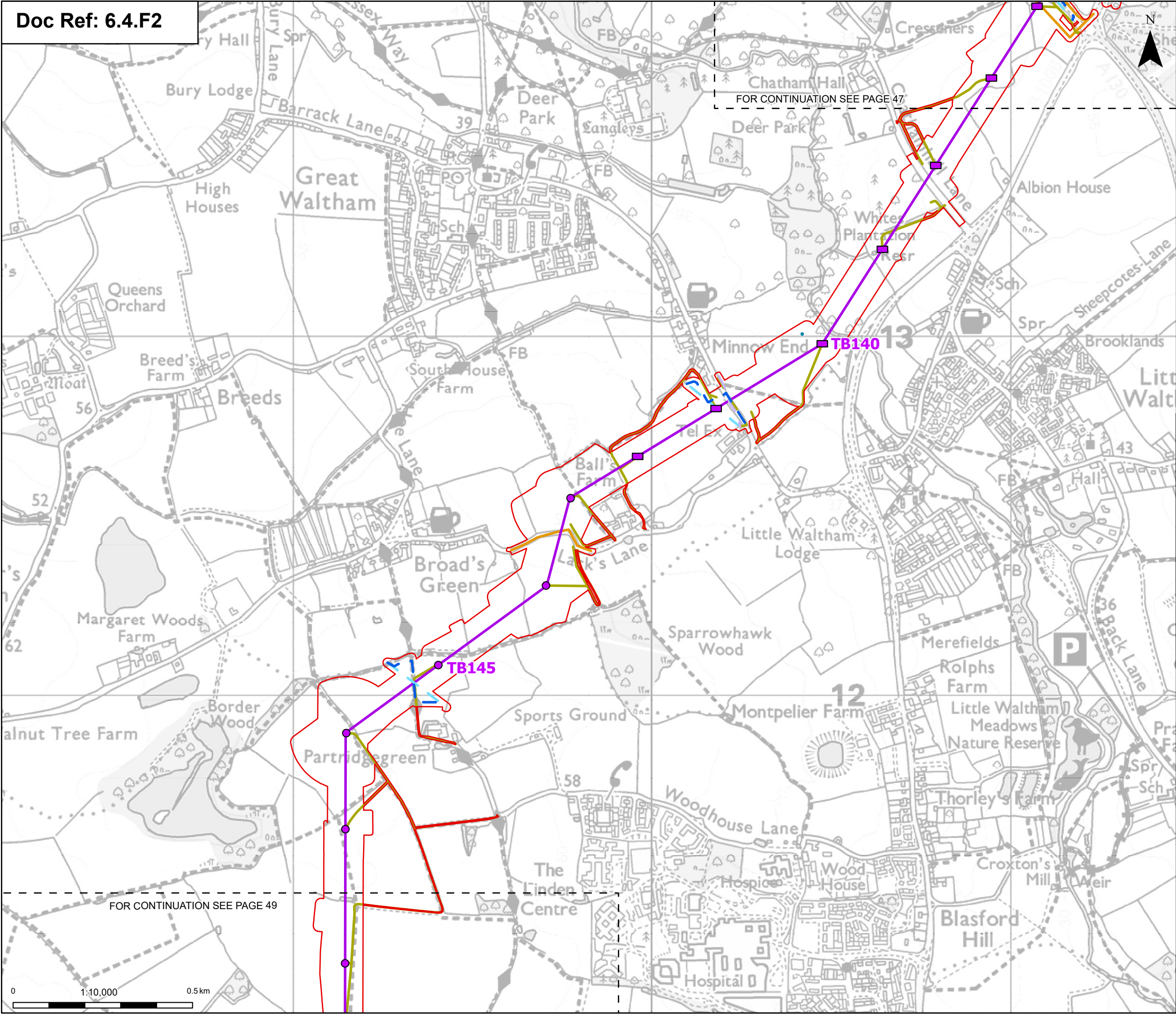
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Proposed Project Design -
Permanent Features
Sections E and F
Page 46 of 63

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Suitability Description:
Accepted as Concept Stage

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| Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00206 | Revision: A |
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Order limits

Sheet index outline

Proposed permanent design details

Proposed low height pylon location

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed permanent access (no physical works)

Proposed BT overhead line mitigation

Proposed 11kV overhead line mitigation

Proposed 11kV underground cable alignment mitigation

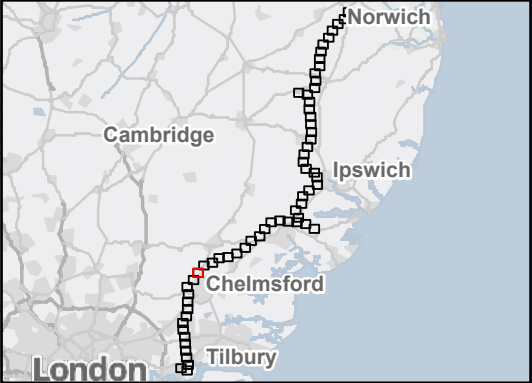
Proposed UKPN Pole Mitigation

Proposed LV proposed underground cable alignment

Proposed flood compensation mitigation works

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

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| Rev | Date | Description | Drawn | Check | Approv |

PROJECT:

nationalgrid

Norwich to Tilbury

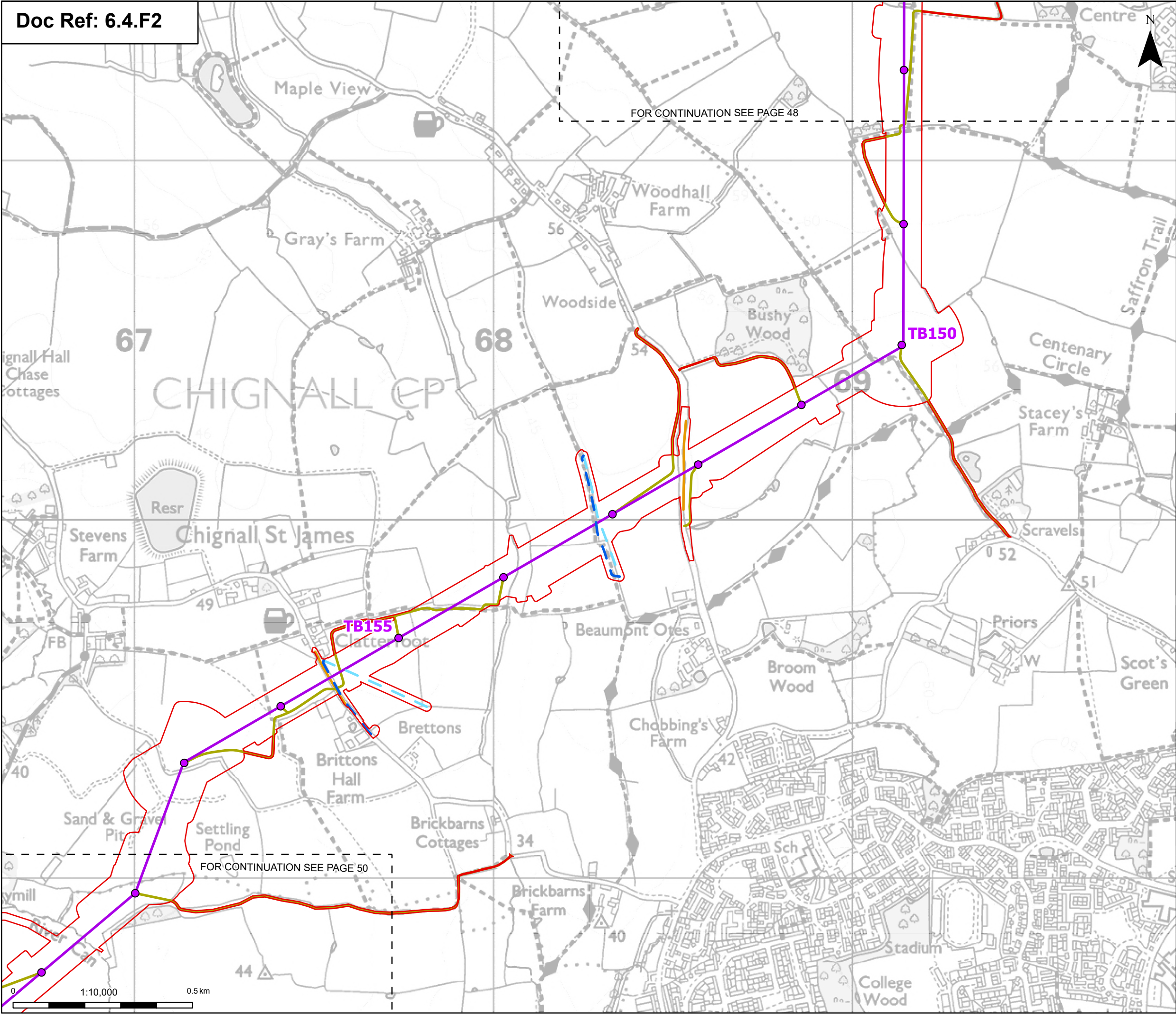
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Title: Figure 4.2 - Project Description - Proposed Project Design - Permanent Features
Section F
Page 48 of 63

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| Designed | A. Fell | 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: | 1:10,000 | 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-EGN-ZZ-DR-ZZ-00206 | Revision: A |
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Order limits

Sheet index cutline

Proposed permanent design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed permanent access (no physical works)

Proposed BT overhead line mitigation

Proposed 11kV overhead line mitigation

Proposed 11kV underground cable alignment mitigation

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

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| Rev | Date | Description | Drawn | Check | Approv |

PROJECT:

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure 4.2 - Project Description - Proposed Project Design - Permanent Features Section F Page 49 of 63

| | | | |
|-------------------|------------|-----------------|-----------|
| Designed | A. Fell | 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: | 1:10,000 | Datum: | AOD |
| Original Size: | A3 | Grid: | OS |
| Suitability Code: | A2 | Project Number: | 10059280 |

Suitability Description:

Accepted as Concept Stage

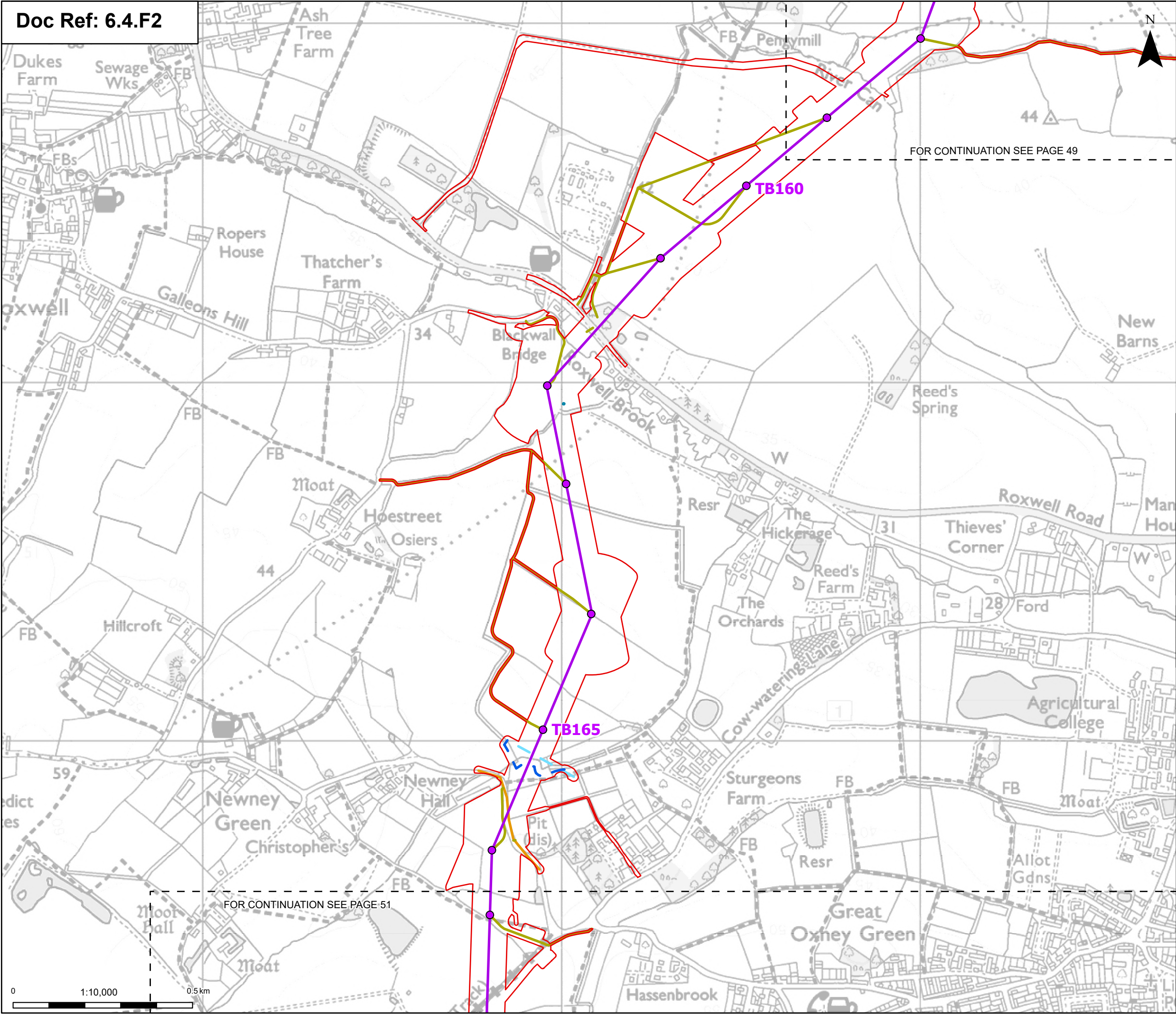
Drawing Number:

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Revision:

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Order limits

Sheet index cutline

Proposed permanent design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed permanent access (no physical works)

Proposed BT overhead line mitigation

Proposed 11kV overhead line mitigation

Proposed 11kV underground cable alignment mitigation

Proposed flood compensation mitigation works

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

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PROJECT:

nationalgrid

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure 4.2 - Project Description - Proposed Project Design - Permanent Features

Section F

Page 50 of 63

| | | | |
|-------------------|------------|-----------------|-----------|
| Designed | A. Fell | 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: | 1:10,000 | Datum: | AOD |
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Suitability Description:

Accepted as Concept Stage

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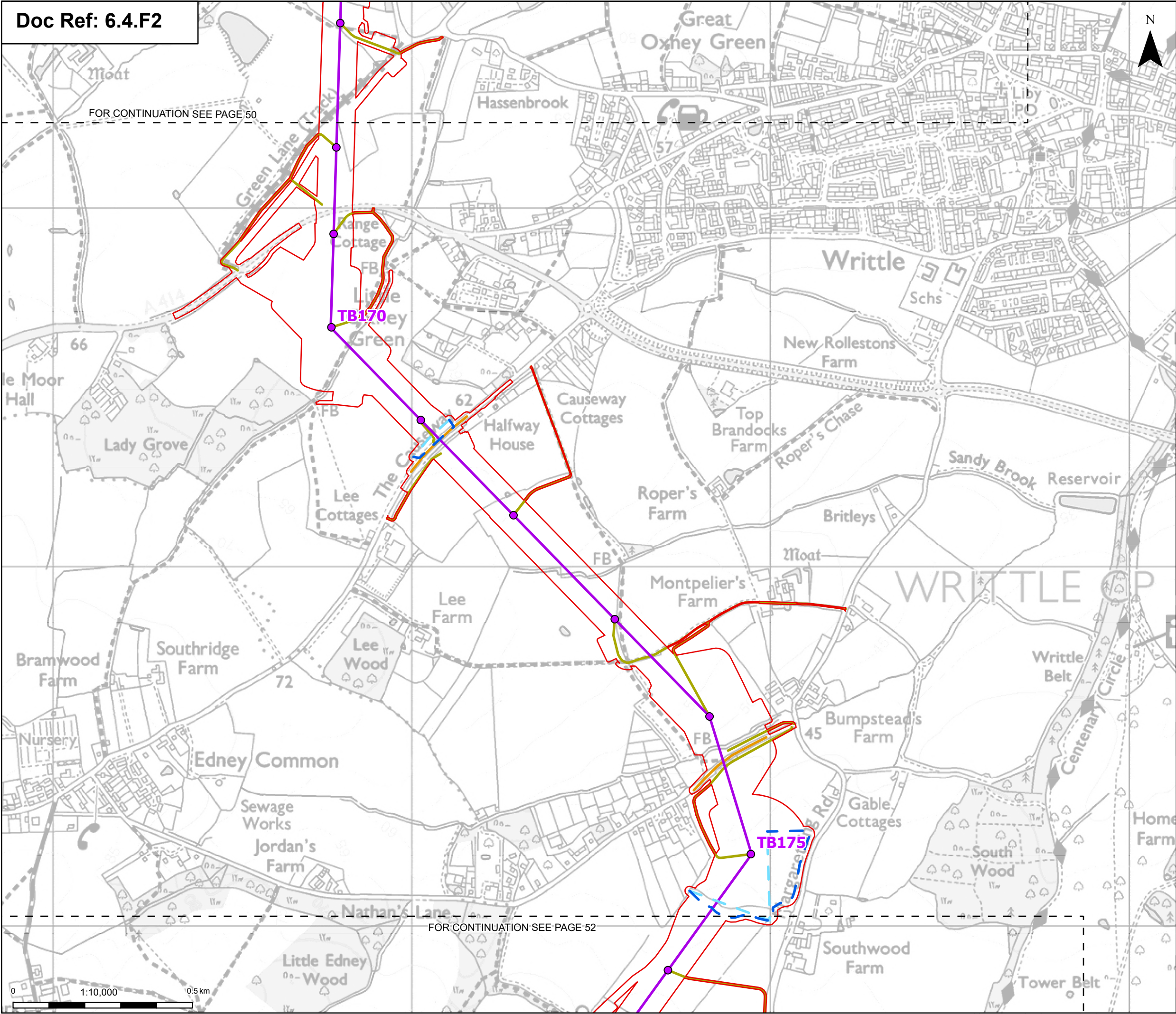
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Order limits

Sheet index cutline

Proposed permanent design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed permanent access (no physical works)

Proposed BT overhead line mitigation

Proposed 11kV overhead line mitigation

Proposed 11kV underground cable alignment mitigation

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

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PROJECT:
nationalgrid Norwich to
Tilbury

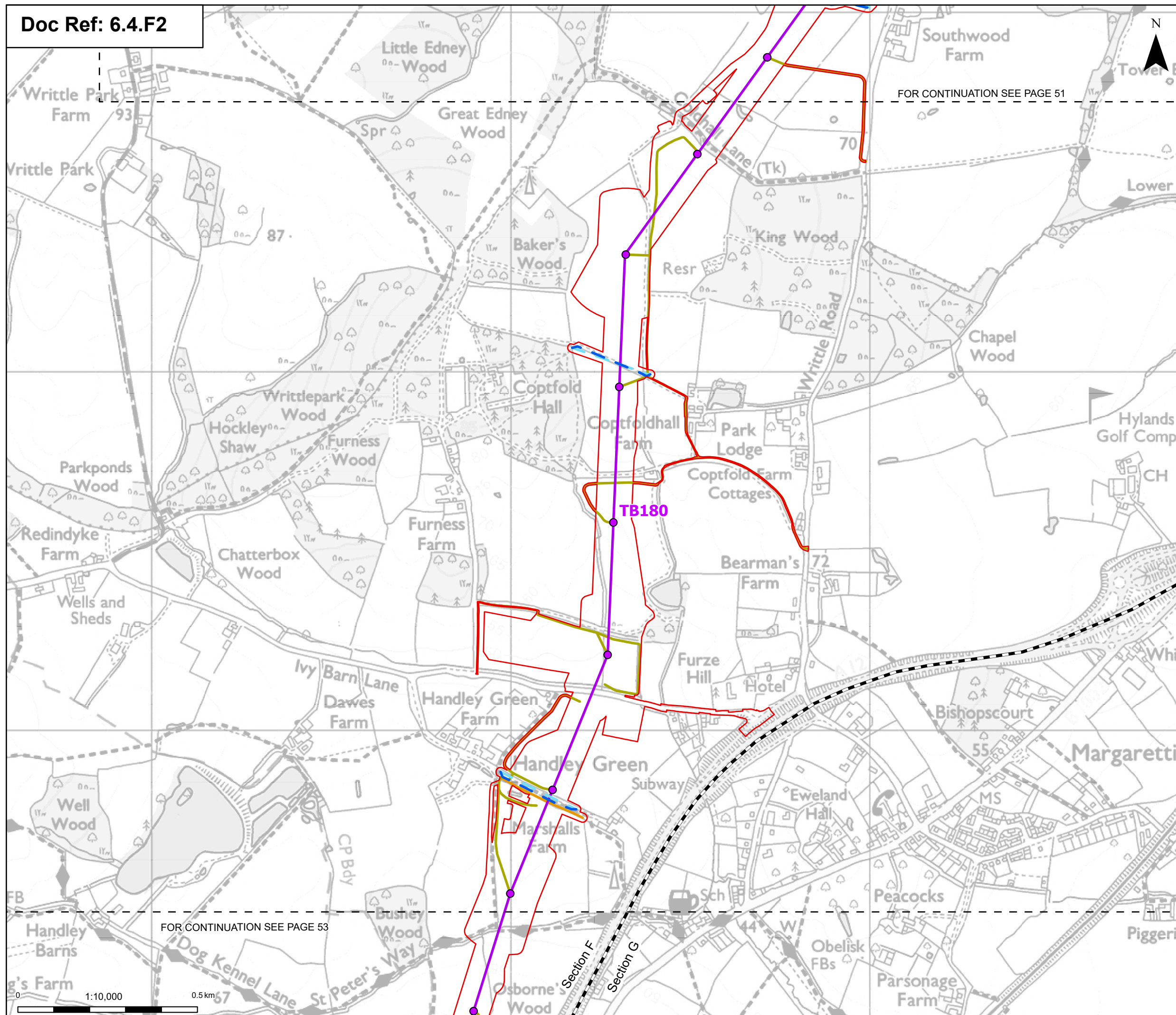
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)


Title:
Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Section F
Page 51 of 63


| | | | |
|--|------------|-----------------|----------------|
| Designed | A. Fell | Date | 21 Aug 25 |
| Drawn | K. Fischer | Date | 21 Aug 25 |
| Checked | A. Fell | Date | 21 Aug 25 |
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| Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00206 | | | Revision: A |


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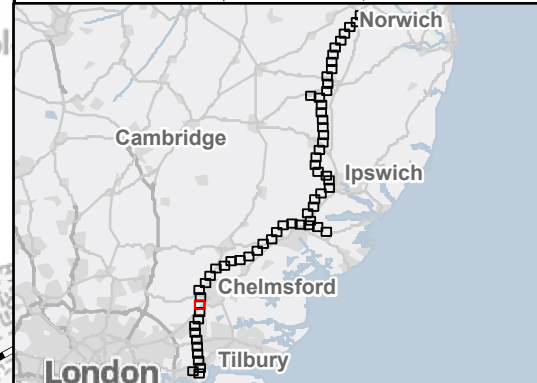
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Proposed permanent design details

-  Proposed standard lattice pylon location
-  Proposed overhead line alignment
-  Proposed permanent access (no physical works)
-  Proposed BT overhead line mitigation
-  Proposed 11kV overhead line mitigation
-  Proposed 11kV underground cable alignment mitigation

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

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nationalgrid PROJECT: Norwich to Tilbury

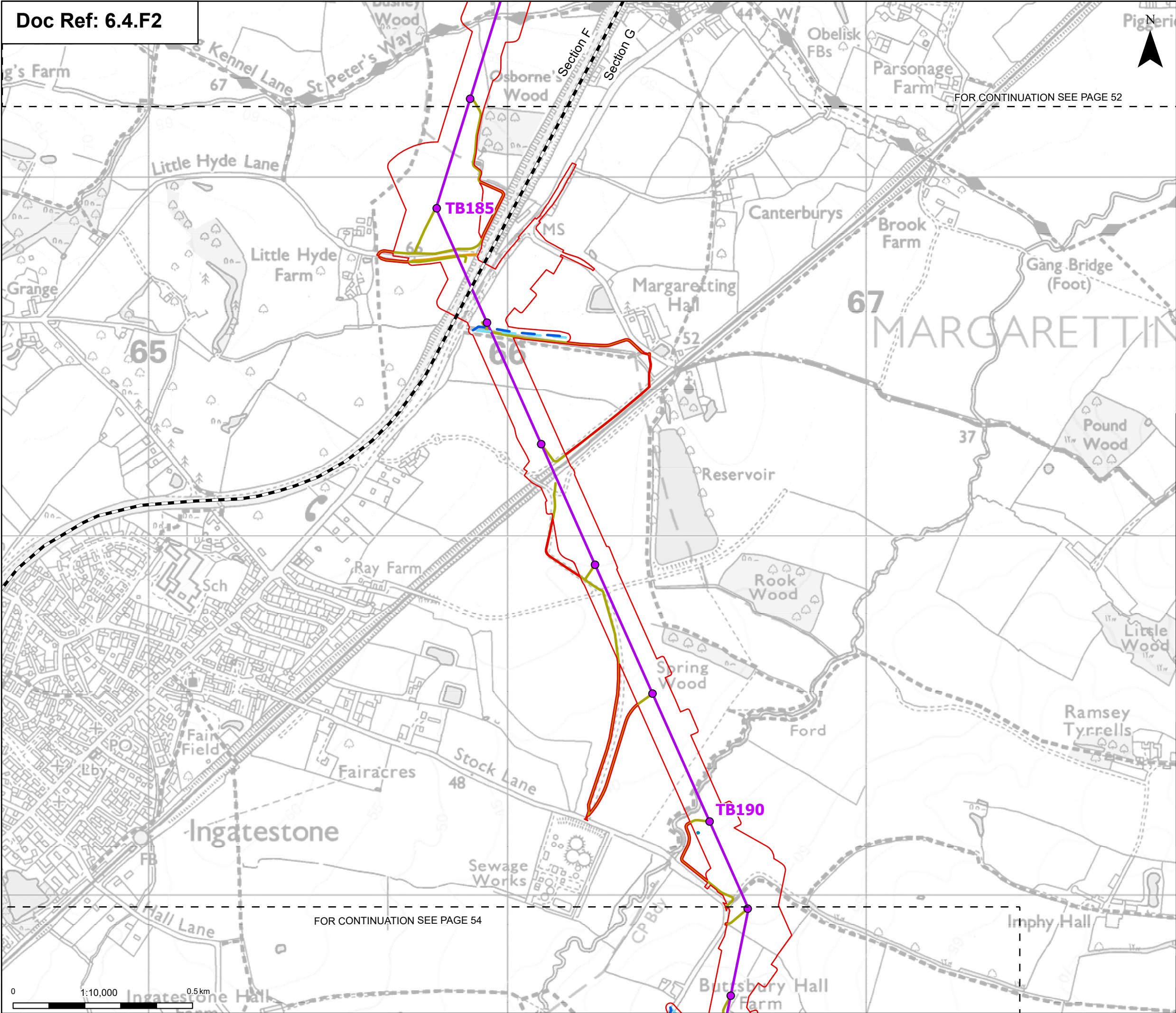
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Regulation 5(2)(a)

Title: Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Sections F and G
Page 52 of 63

| | | | |
|-------------------|------------|-----------------|-----------|
| Designed | A. Fell | Date | 21 Aug 25 |
| Drawn | K. Fischer | Date | 21 Aug 25 |
| Checked | A. Fell | Date | 21 Aug 25 |
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| Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00206 | Revision: A |
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Order limits

Project section line

Sheet index cutline

Proposed permanent design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed permanent access (no physical works)

Proposed BT overhead line mitigation

Proposed 11kV overhead line mitigation

Proposed 11kV underground cable alignment mitigation

Proposed flood compensation mitigation works

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

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PROJECT:

Norwich to Tilbury

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

Title:
Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Sections F and G
Page 53 of 63

| | | | |
|-------------------|------------|-----------------|-----------|
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Suitability Description:
Accepted as Concept Stage

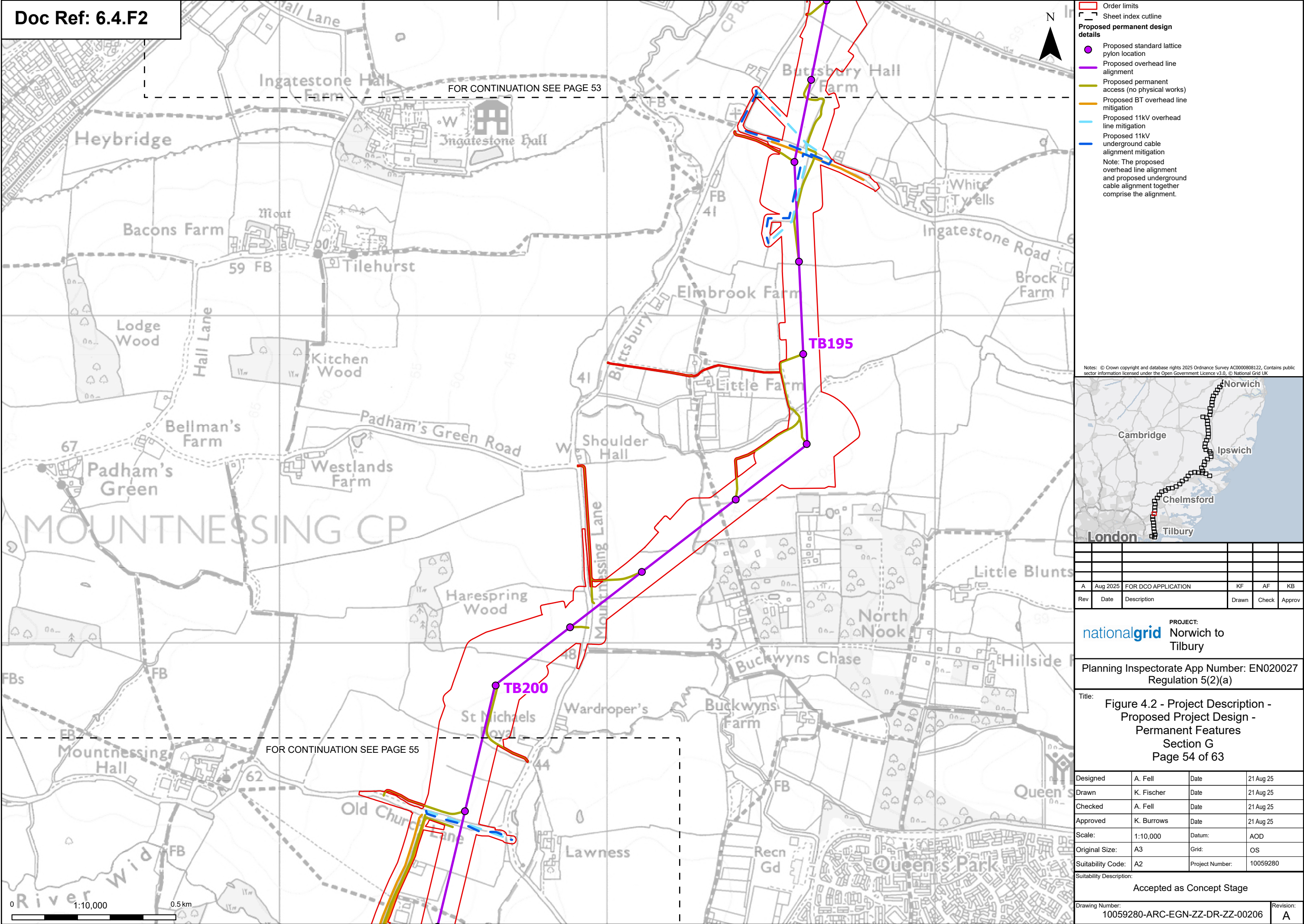
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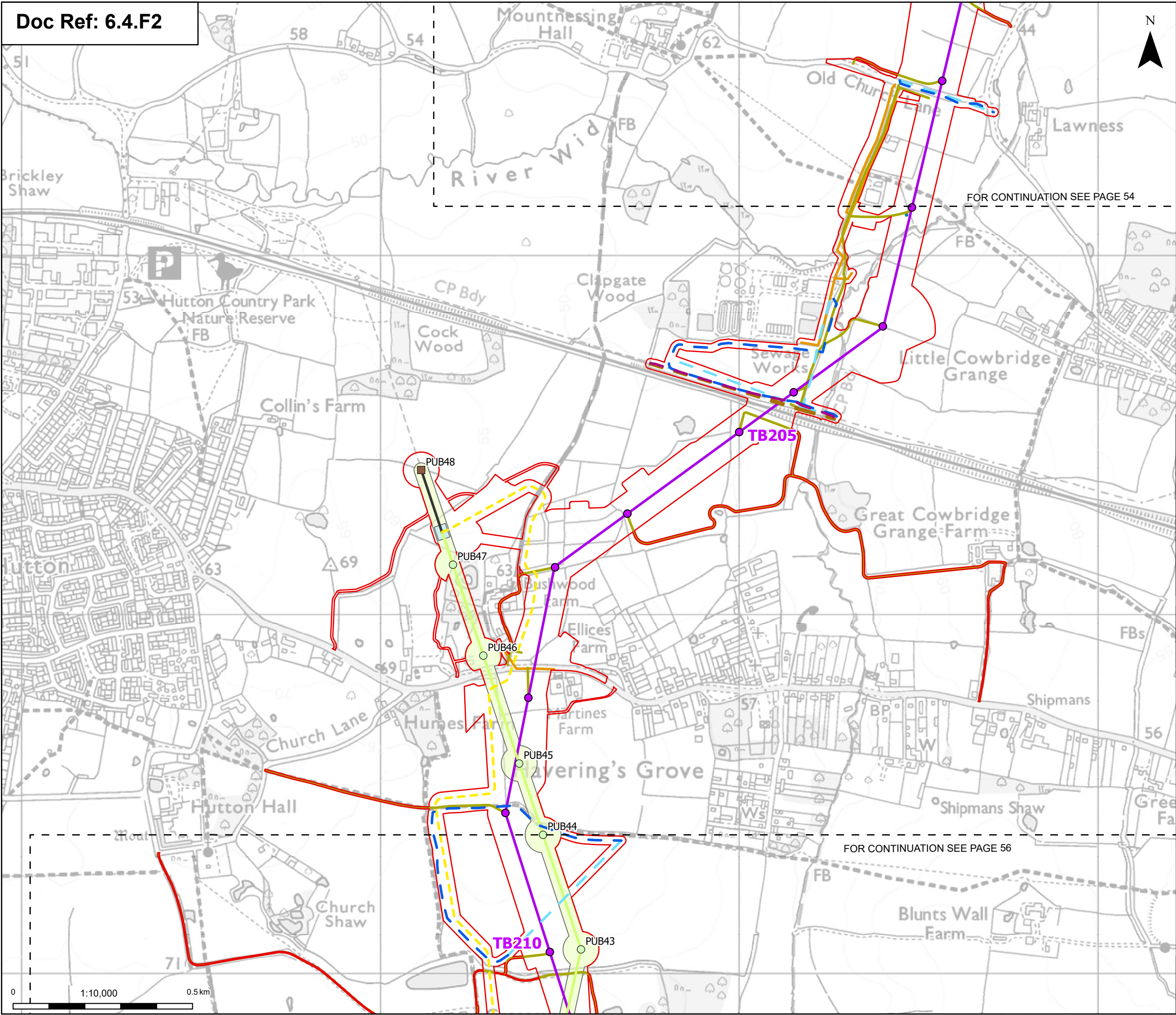
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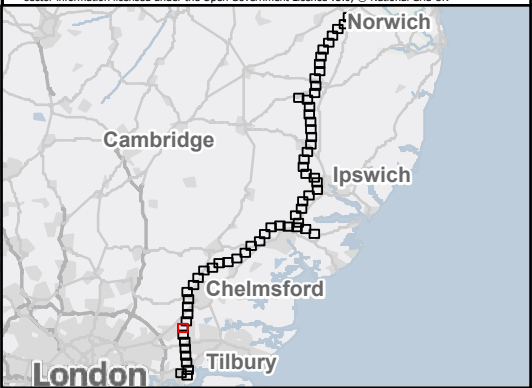
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- Order limits
 - Sheet index outline
 - Proposed permanent design details
 - Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Proposed permanent access (no physical works)
 - Proposed BT overhead line mitigation
 - Proposed UKPN overhead line dismantle towers
 - Proposed UKPN overhead line existing tower (to be modified)
 - Proposed 11kV overhead line mitigation
 - Proposed 11kV underground cable alignment mitigation
 - Proposed 33kV overhead line mitigation
 - Proposed 33kV underground cable alignment mitigation
 - Proposed flood compensation mitigation works
 - Proposed UKPN cable sealing end platform
 - Proposed UKPN tower dismantle assets
 - Proposed UKPN dismantle centreline
 - Proposed UKPN existing centreline (modified)
 - Proposed UKPN Cable Centreline
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment.

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PROJECT:
nationalgrid Norwich to Tilbury

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

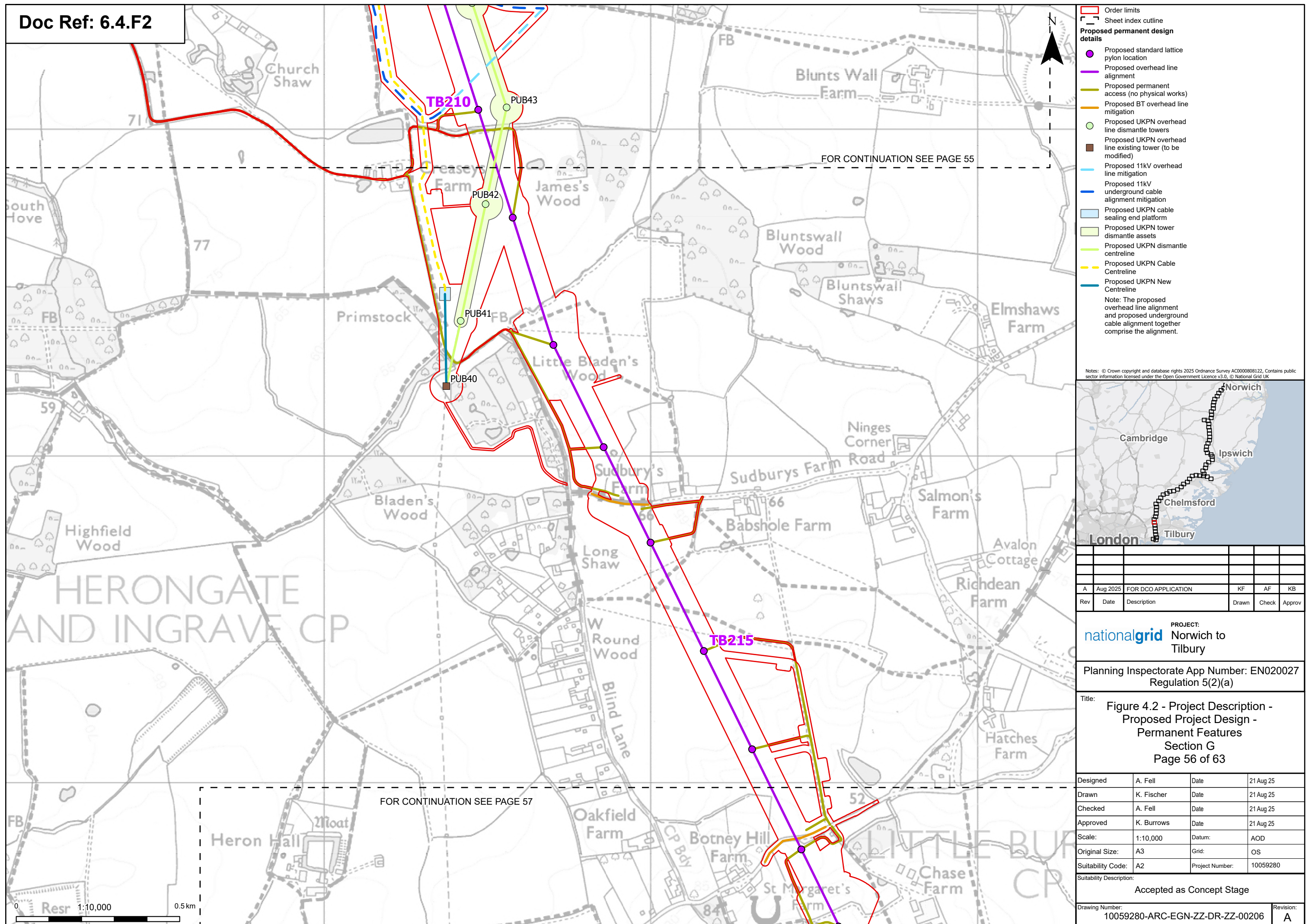
Title:
Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Section G
Page 55 of 63

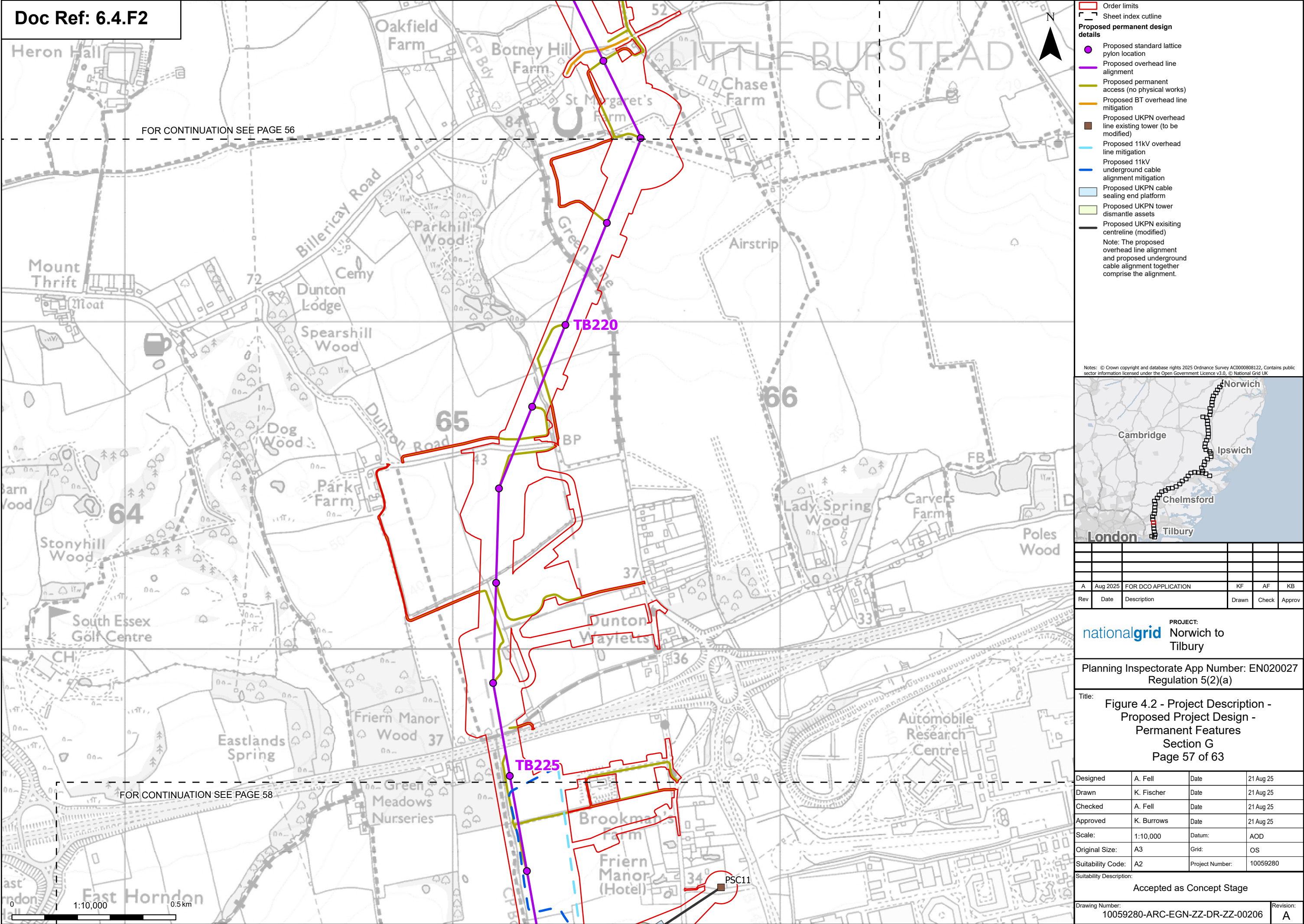
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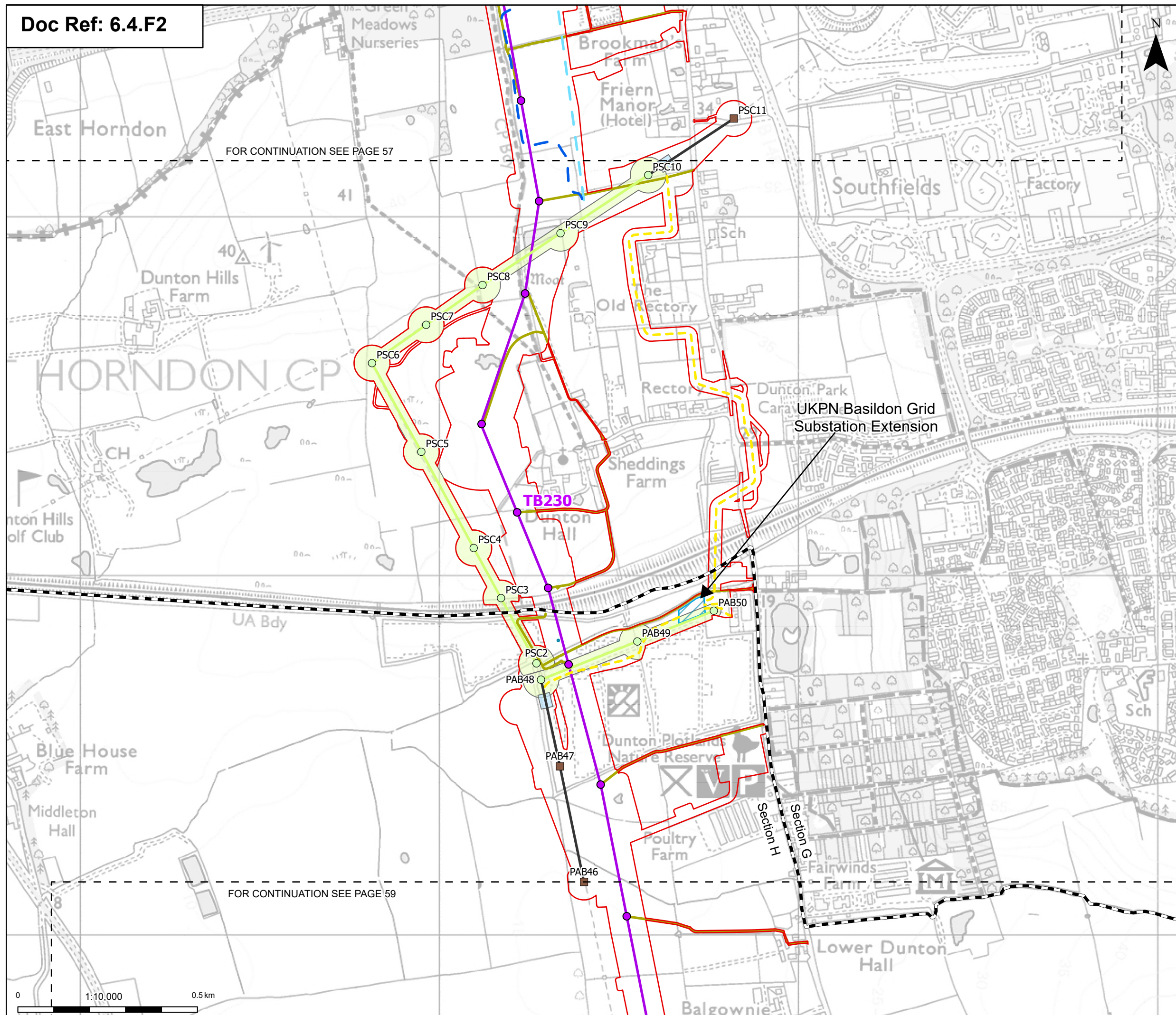
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Drawing Number:
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Revision:
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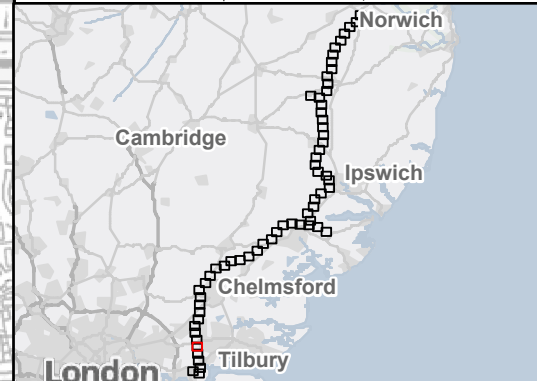


- Proposed permanent design details**

 - Order limits
 - Project section line
 - Sheet index cutline
 - Proposed standard lattice pylon location
 - Proposed overhead line alignment
 - Proposed permanent access (no physical works)
 - Proposed UKPN overhead line dismantle towers
 - Proposed UKPN overhead line existing tower (to be modified)
 - Proposed 11kV overhead line mitigation
 - Proposed 11kV underground cable alignment mitigation
 - Proposed UKPN substation extensions
 - Proposed flood compensation mitigation works
 - Proposed UKPN cable sealing end platform
 - Proposed UKPN tower dismantle assets
 - Proposed UKPN dismantle centreline
 - Proposed UKPN existing centreline (modified)
 - Proposed UKPN Cable Centreline

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

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nationalgrid PROJECT:
Norwich to
Tilbury

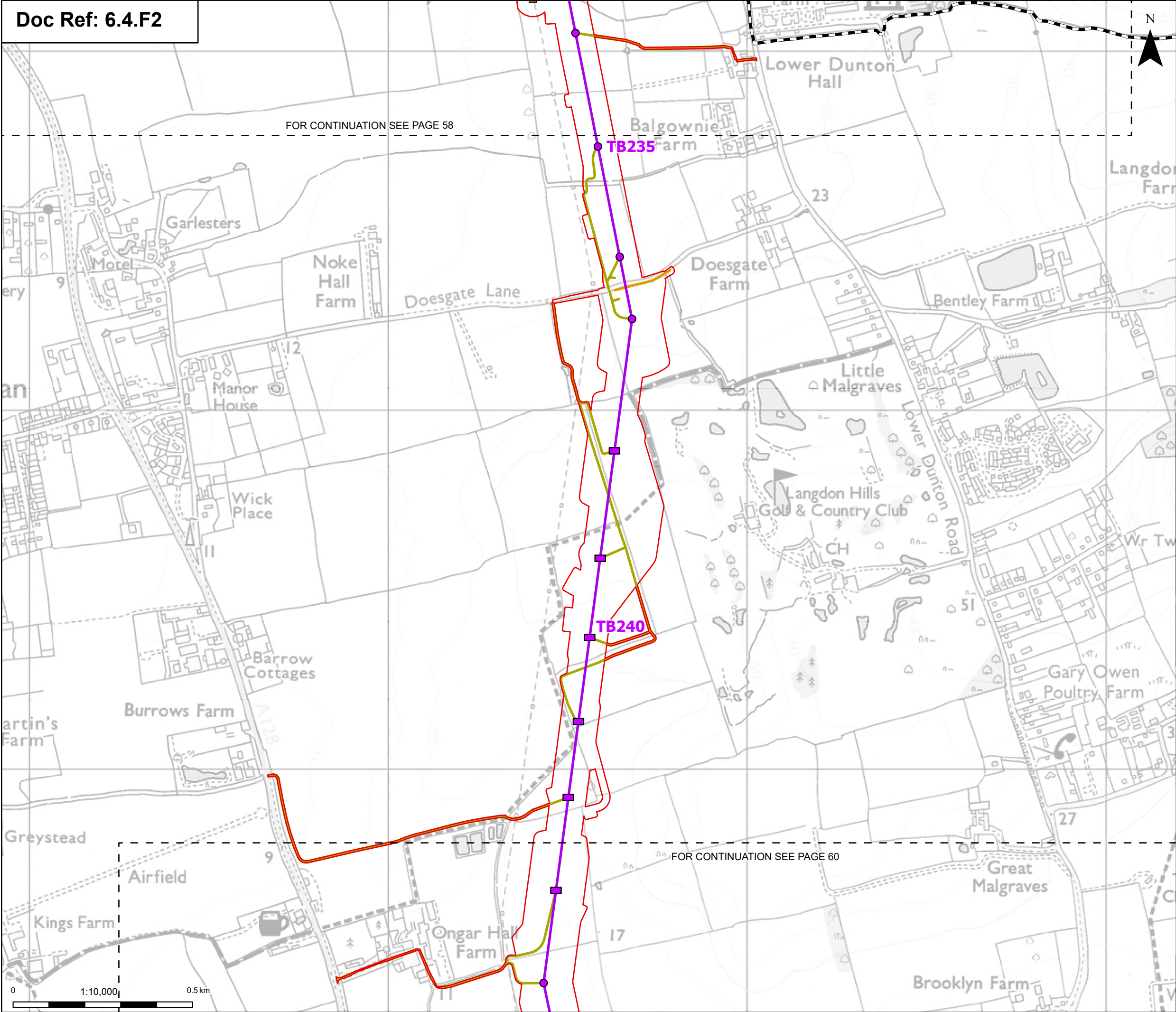
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Regulation 5(2)(a)

Title: Figure 4.2 - Project Description -
Proposed Project Design -
Permanent Features
Sections G and H
Page 58 of 63

| | | | |
|-------------------|------------|-----------------|-----------|
| Designed | A. Fell | Date | 21 Aug 25 |
| Drawn | K. Fischer | Date | 21 Aug 25 |
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| Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00206 | Revision: A |
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Order limits

Project section line

Sheet index outline

Proposed permanent design details

Proposed low height pylon location

Proposed standard lattice pylon location

Proposed overhead line alignment

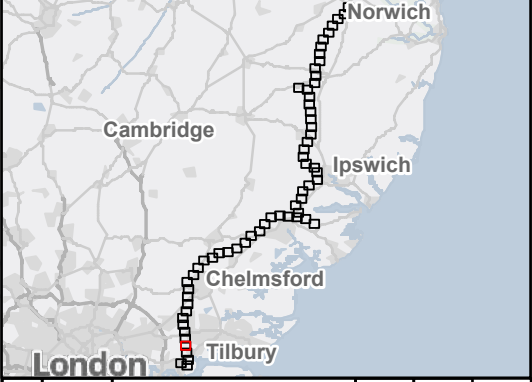
Proposed permanent access (no physical works)

Proposed BT overhead line mitigation

Proposed UKPN overhead line existing tower (to be modified)

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

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PROJECT:

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Norwich to Tilbury

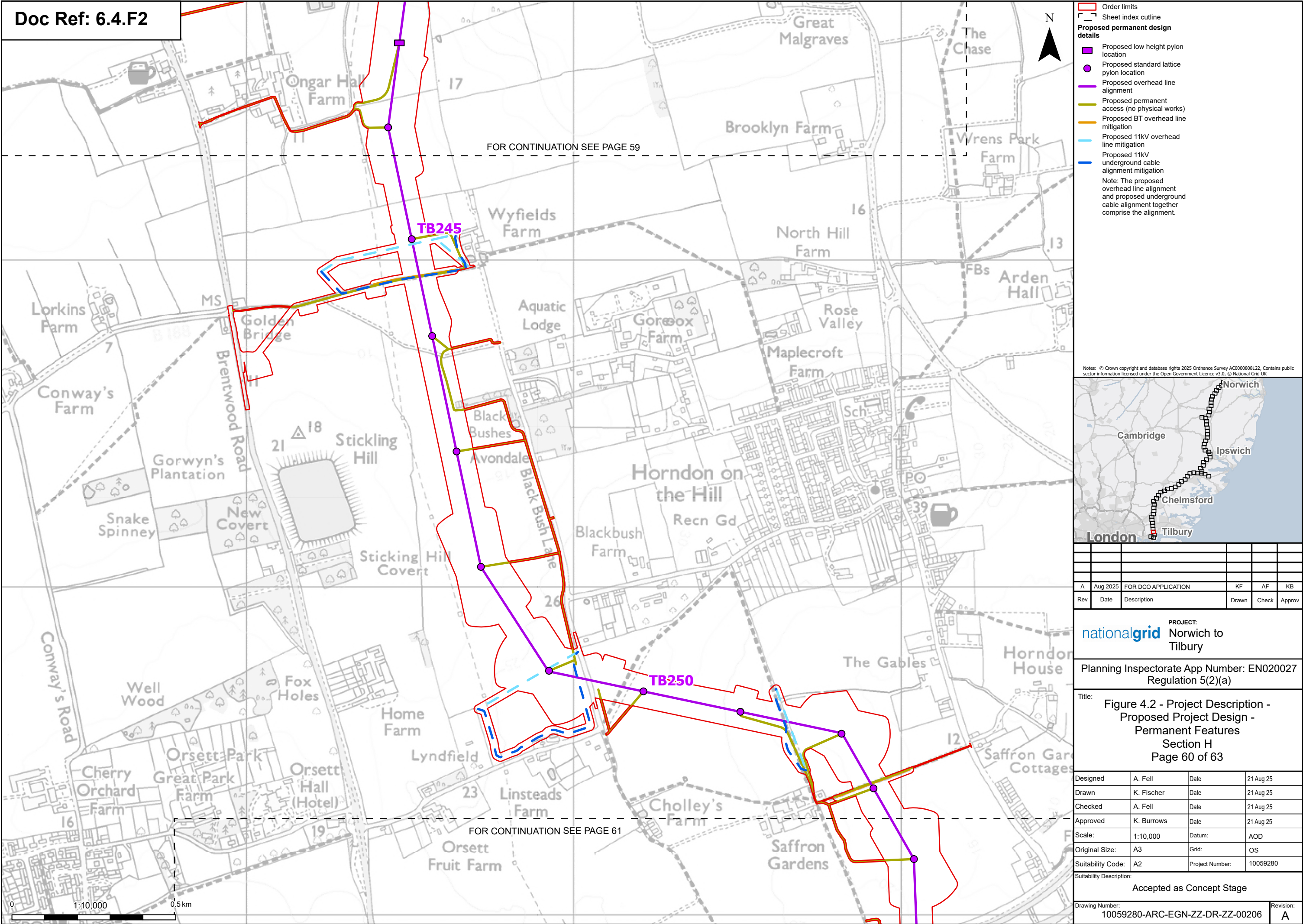
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Regulation 5(2)(a)

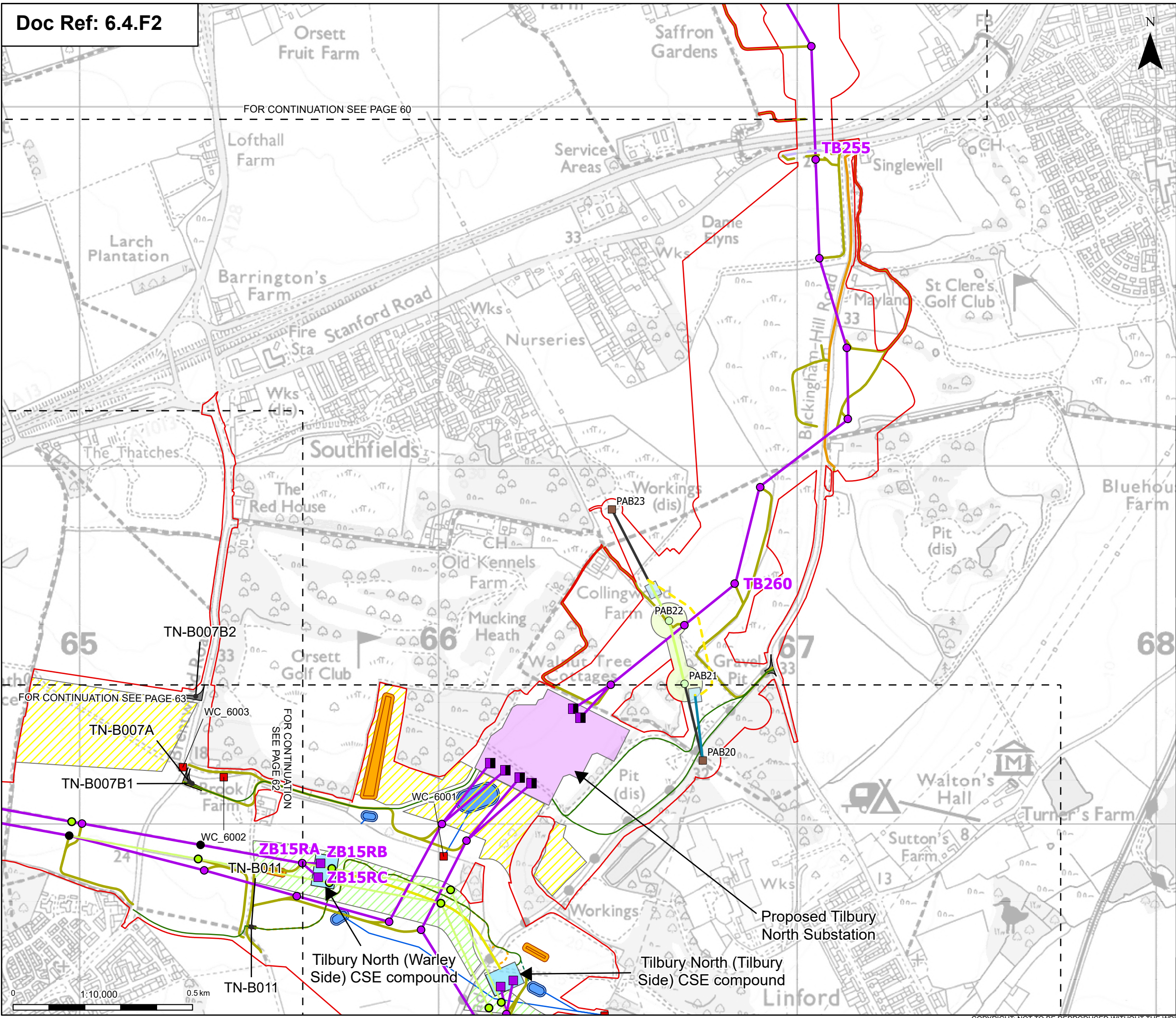
Title: **Figure 4.2 - Project Description - Proposed Project Design - Permanent Features Sections G and H**
Page 59 of 63

| | | | |
|-------------------|------------|-----------------|-----------|
| Designed | A. Fell | Date | 21 Aug 25 |
| Drawn | K. Fischer | Date | 21 Aug 25 |
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| Drawing Number: | Revision: |
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Order limits

Sheet index outline

Proposed permanent design details

Proposed full line tension gantry

Proposed low duty gantry

Existing pylon (modify)

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed dismantle pylon position

Proposed underground cable alignment

Proposed Substation / Cable Sealing End (CSE) compound permanent access routes

Proposed permanent access (no physical works)

Proposed BT overhead line mitigation

Proposed Tilbury North Substation

Proposed cable sealing end (CSE) compound

Proposed Environmental Areas - Permanent

Proposed Environmental Mitigation Areas - Permanent

Proposed permanent attenuation drainage channel

Proposed permanent attenuation drainage pond

Proposed permanent drainage access route

Proposed UKPN overhead line dismantle towers

Proposed UKPN overhead line existing tower (to be modified)

Proposed UKPN Pole Mitigation

Proposed LV proposed underground cable alignment

Proposed cable permanent access (no physical works)

Proposed permanent spoil bund hatch

Proposed dismantle OHL alignment

Proposed permanent site access points

Proposed UKPN cable sealing end platform

Proposed UKPN tower dismantle assets

Proposed underground cable/CSE compound/substation/outfall watercourse crossing - permanent

Proposed UKPN dismantle centreline

Proposed UKPN existing centreline (modified)

Proposed UKPN Cable Centreline

Proposed UKPN New Centreline

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

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Ipswich

Chelmsford

Tilbury

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PROJECT:

nationalgrid

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure 4.2 - Project Description - Proposed Project Design - Permanent Features

Section H

Page 61 of 63

| | | | |
|-------------------|------------|-----------------|-----------|
| Designed | A. Fell | Date | 21 Aug 25 |
| Drawn | K. Fischer | Date | 21 Aug 25 |
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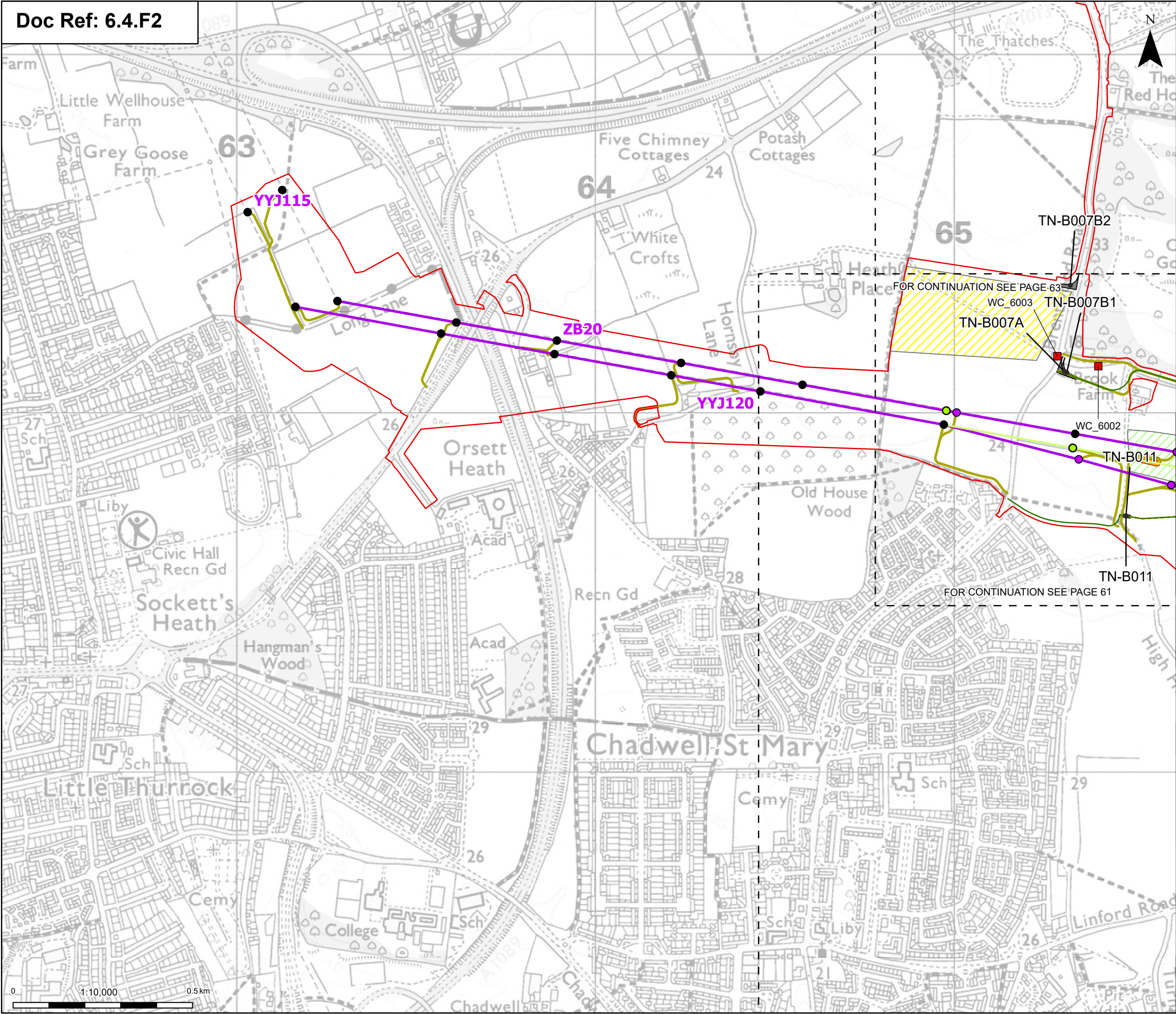
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Drawing Number:

10059280-ARC-EGN-ZZ-DR-ZZ-00206

Revision:

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Order limits

Sheet index outline

Proposed permanent design details

Existing pylon (modify)

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed dismantle pylon position

Proposed Substation / Cable Sealing End (CSE) compound permanent access routes

Proposed permanent access (no physical works)

Proposed Environmental Areas - Permanent

Proposed Environmental Mitigation Areas - Permanent

Proposed cable permanent access (no physical works)

Proposed permanent spoil bund hatch

Proposed dismantle OHL alignment

Proposed permanent site access points

Proposed underground cable/CSE compound/ substation/outfall watercourse crossing - permanent

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

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| A | Aug 2025 | FOR DCO APPLICATION | KF | AF | KB |
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PROJECT:
nationalgrid Norwich to Tilbury

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

Title:
Figure 4.2 - Project Description - Proposed Project Design - Permanent Features
Section H
Page 62 of 63

| | | | |
|-------------------|------------|-----------------|-----------|
| Designed | A. Fell | Date | 21 Aug 25 |
| Drawn | K. Fischer | Date | 21 Aug 25 |
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