

BT-NG-020621-545-0182

# Bramford to Twinstead Reinforcement

Volume 6: Environmental Information

Document 6.4.10: Environmental Statement  
Figures (Part 10)

Final Issue A  
April 2023

Planning Inspectorate Reference: EN020002

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





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Figure 14.3: Potential Construction Vibration Effects

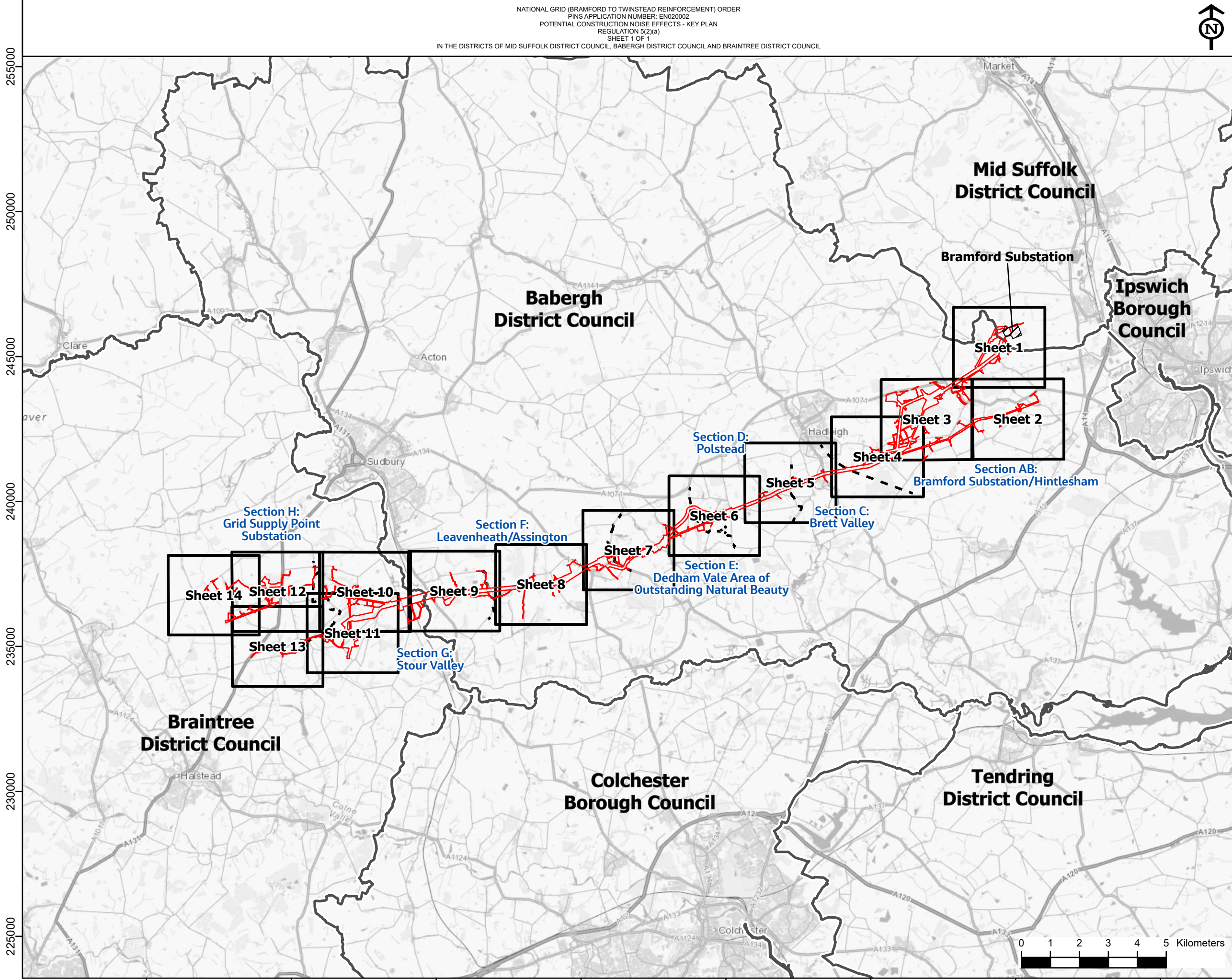
Figure 15.1: Nationally Significant Infrastructure Projects

Figure 15.2: Proposed Developments

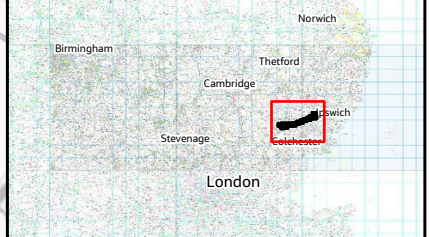
Figure 16.1: Embedded Measures and Mitigation Proposals

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- Legend**
- - - Section boundaries
  - Order Limits
  - ▭ Local authority districts
  - ▨ Existing Bramford Substation



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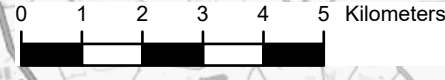


TITLE: Figure 14.2  
 Potential Construction Noise Effects - Key Plan

CIRCUIT / SITE :  
 Bramford – Pelham & Bramford – Braintree – Bulls Lodge

ORIGINATOR DRAWING NO.  
 AAA\_BTT\_Figure\_14\_2\_Rev0\_KeyPlan

NG DRAWING No. BT-JAC-020631-500-0099	SHEET NO. 1	NO. OF SHEETS 1	ISSUE: A
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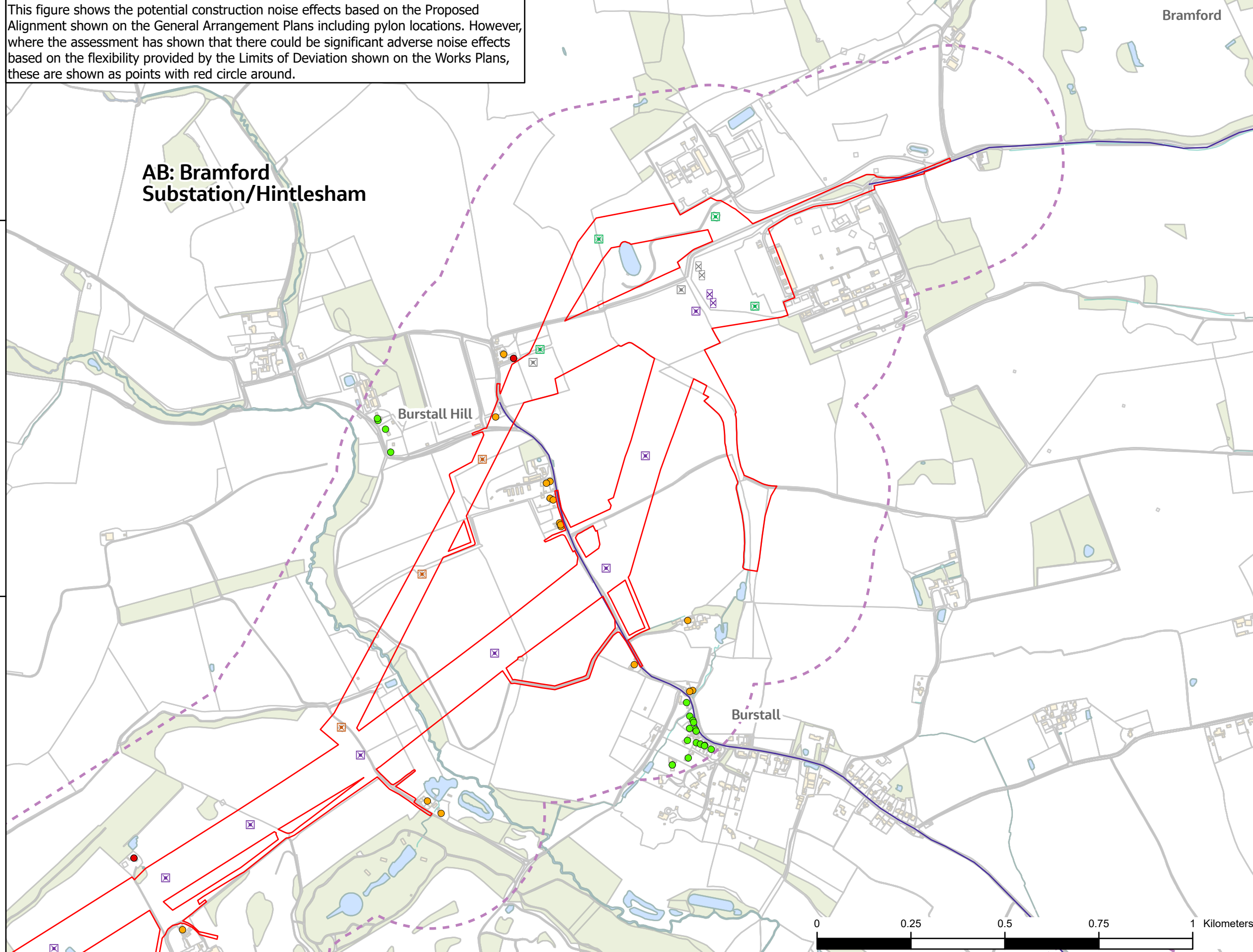




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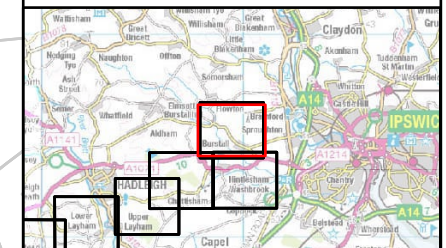
This figure shows the potential construction noise effects based on the Proposed Alignment shown on the General Arrangement Plans including pylon locations. However, where the assessment has shown that there could be significant adverse noise effects based on the flexibility provided by the Limits of Deviation shown on the Works Plans, these are shown as points with red circle around.

**AB: Bramford Substation/Hintlesham**



- Legend**
- Section boundaries
  - Order Limits
  - Noise study area (300m)
  - Trenchless crossing pits
  - Construction routes to the Strategic Road Network
  - Proposed underground line
  - Proposed pylons
  - Proposed gantries
  - Modification to existing pylon
  - Realignment of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation

- Construction noise effects**
- Residential receptors
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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TITLE: **Figure 14.2 Potential Construction Noise Effects**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** **GIS**

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_14\_2\_Rev0** **A3**

NG DRAWING No. **BT-JAC-020631-500-0099** SHEET NO. **1** NO. OF SHEETS **14** ISSUE: **A**

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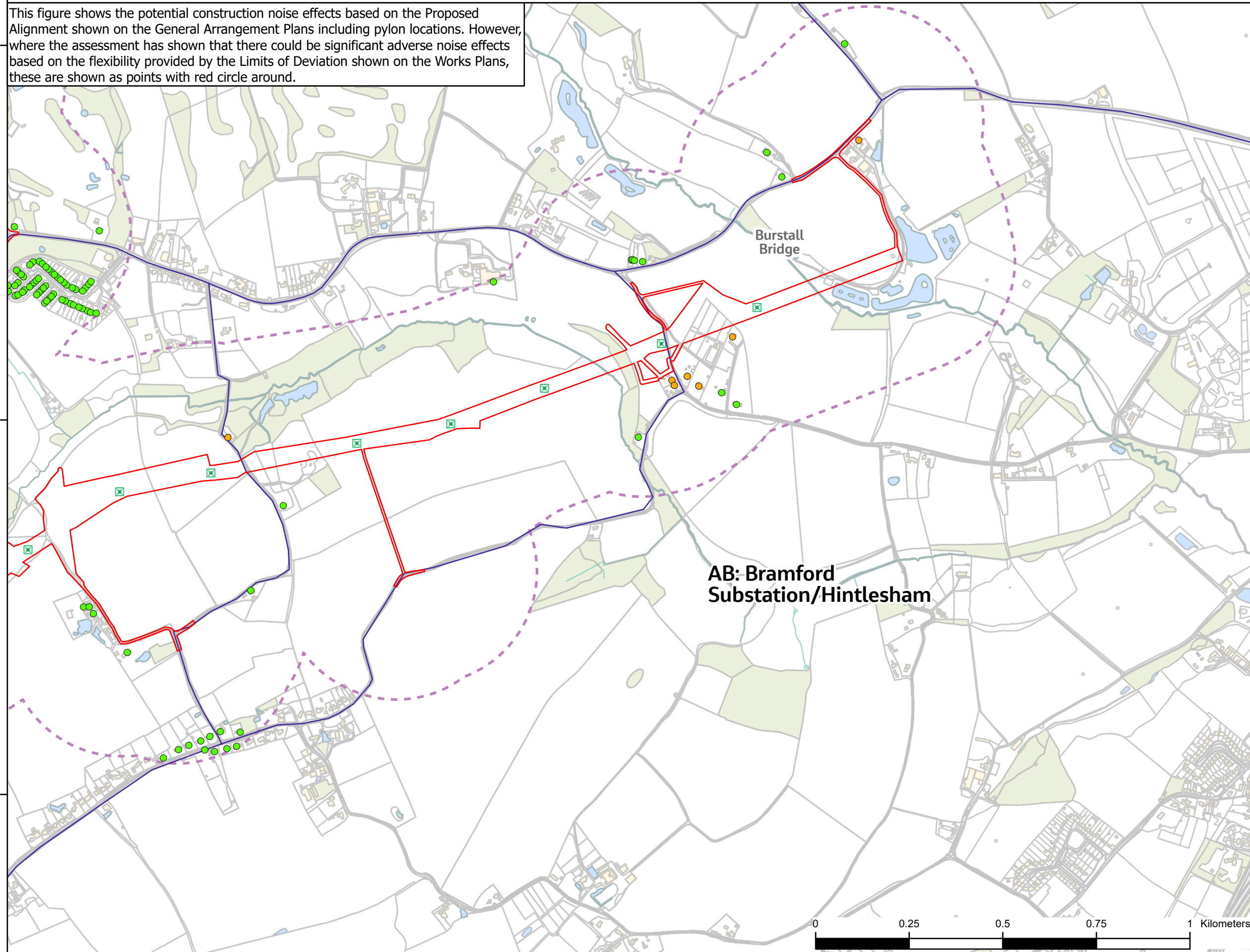
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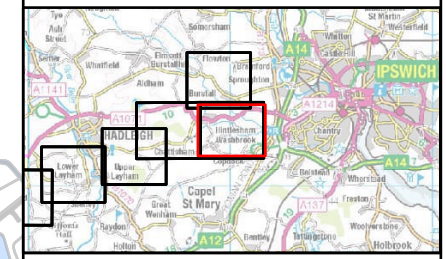
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- Section boundaries
  - Order Limits
  - Noise study area (300m)
  - Trenchless crossing pits
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  - Modification to existing pylon
  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation

- Construction noise effects**
- Residential receptors**
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors**
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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TITLE: **Figure 14.2 Potential Construction Noise Effects**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** GIS

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_14\_2\_Rev0** A3

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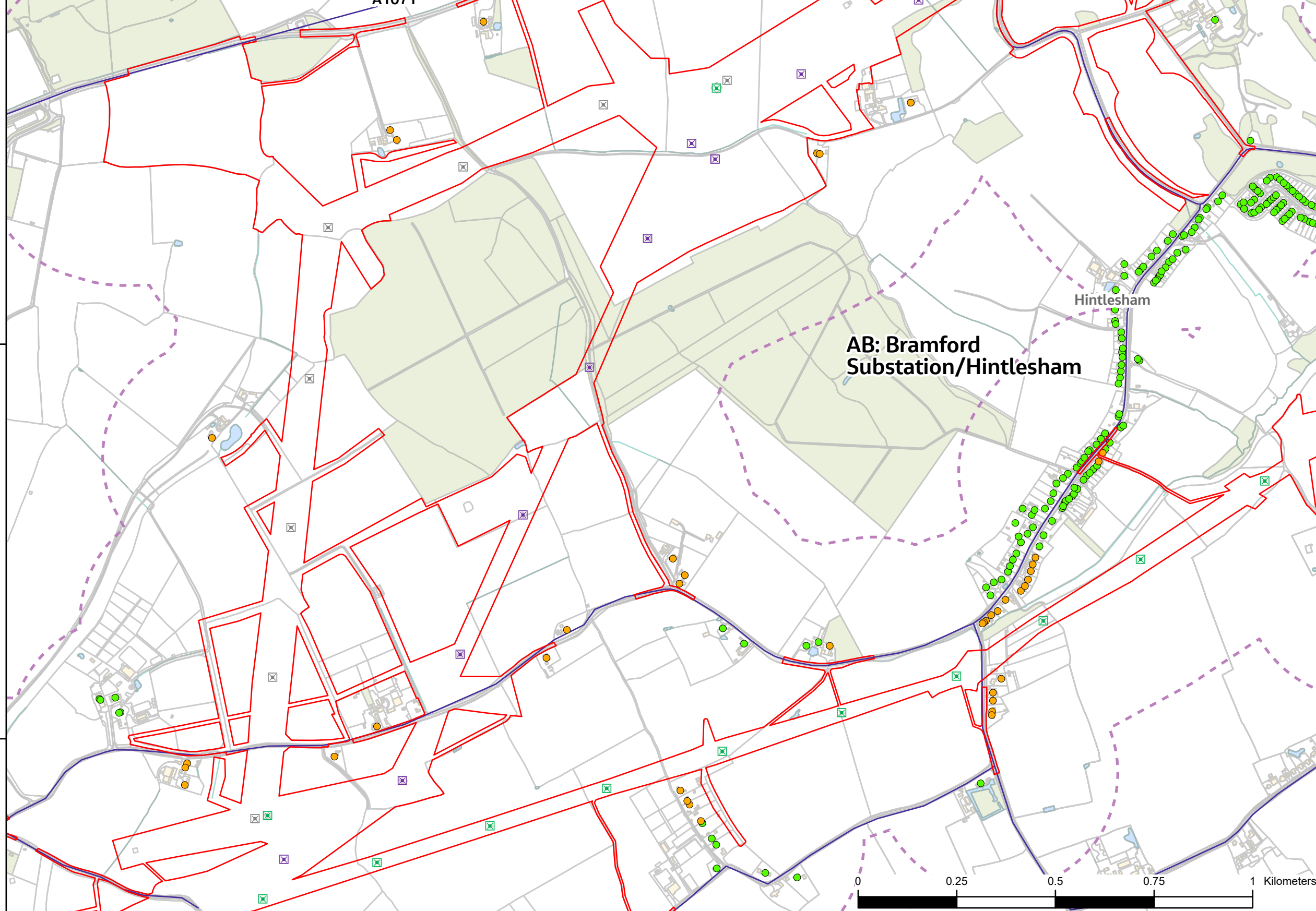
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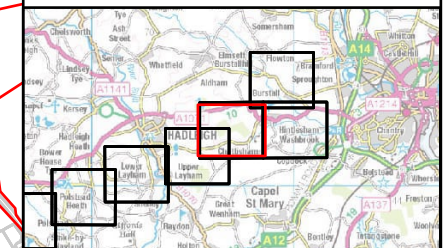
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  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation

- Construction noise effects**
- Residential receptors
- Red circle: Significant adverse effect (without mitigation)
  - Orange circle: Adverse effect (without mitigation)
  - Green circle: No adverse effect
- Non-residential receptors
- Red diamond: Significant adverse effect (without mitigation)
  - Orange diamond: Adverse effect (without mitigation)
  - Green diamond: No adverse effect



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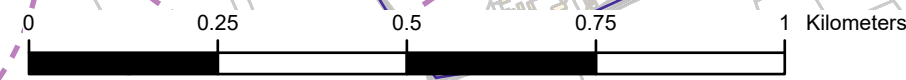


TITLE: **Figure 14.2 Potential Construction Noise Effects**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** **GIS**

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_14\_2\_Rev0** **A3**

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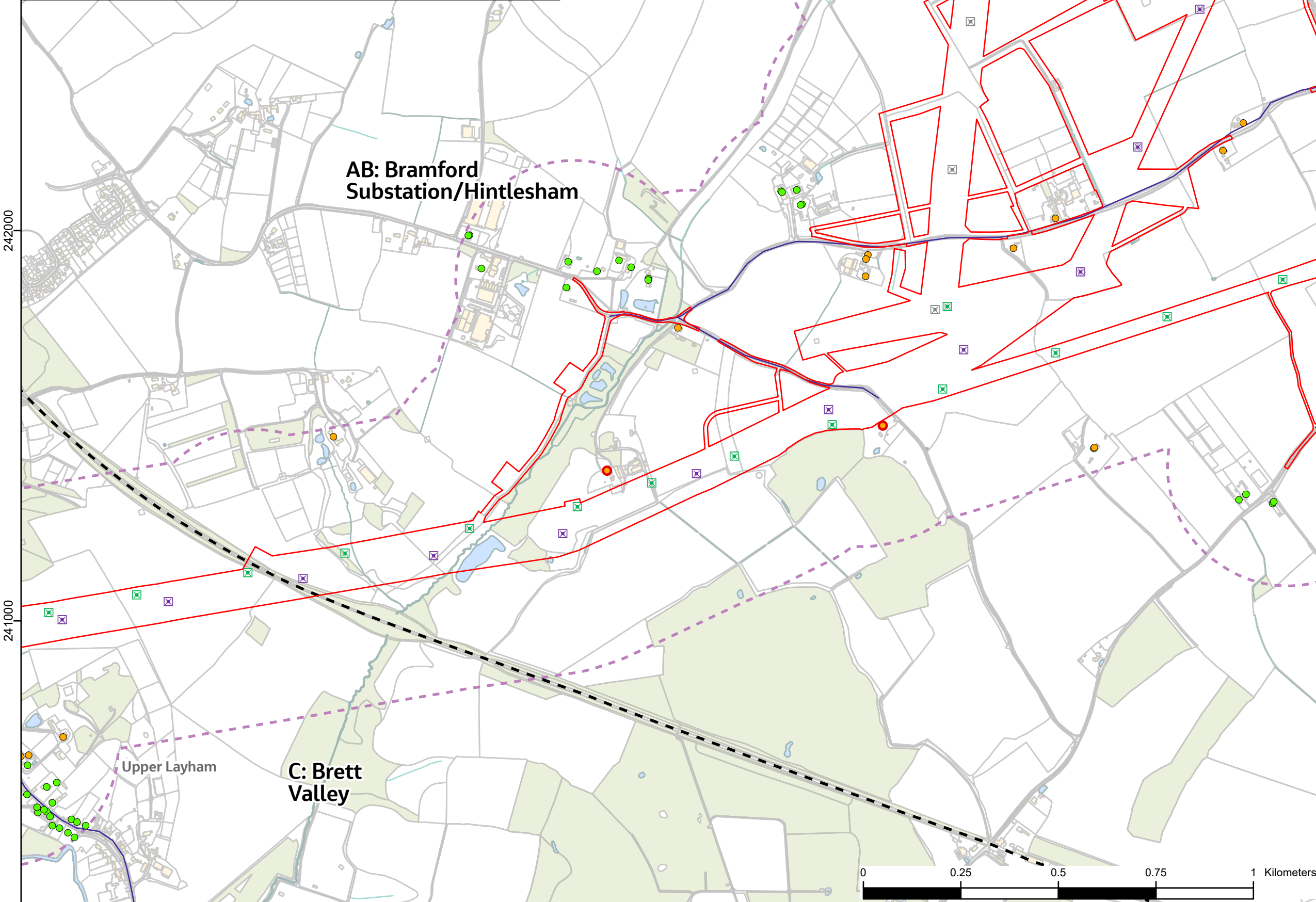
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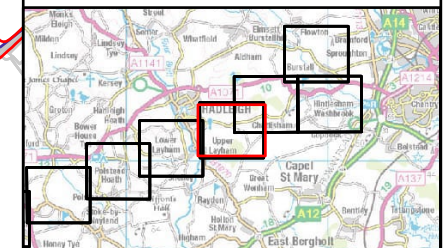


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  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation
- Construction noise effects**
- Residential receptors**
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors**
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect



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TITLE: **Figure 14.2 Potential Construction Noise Effects**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** GIS

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_14\_2\_Rev0** A3

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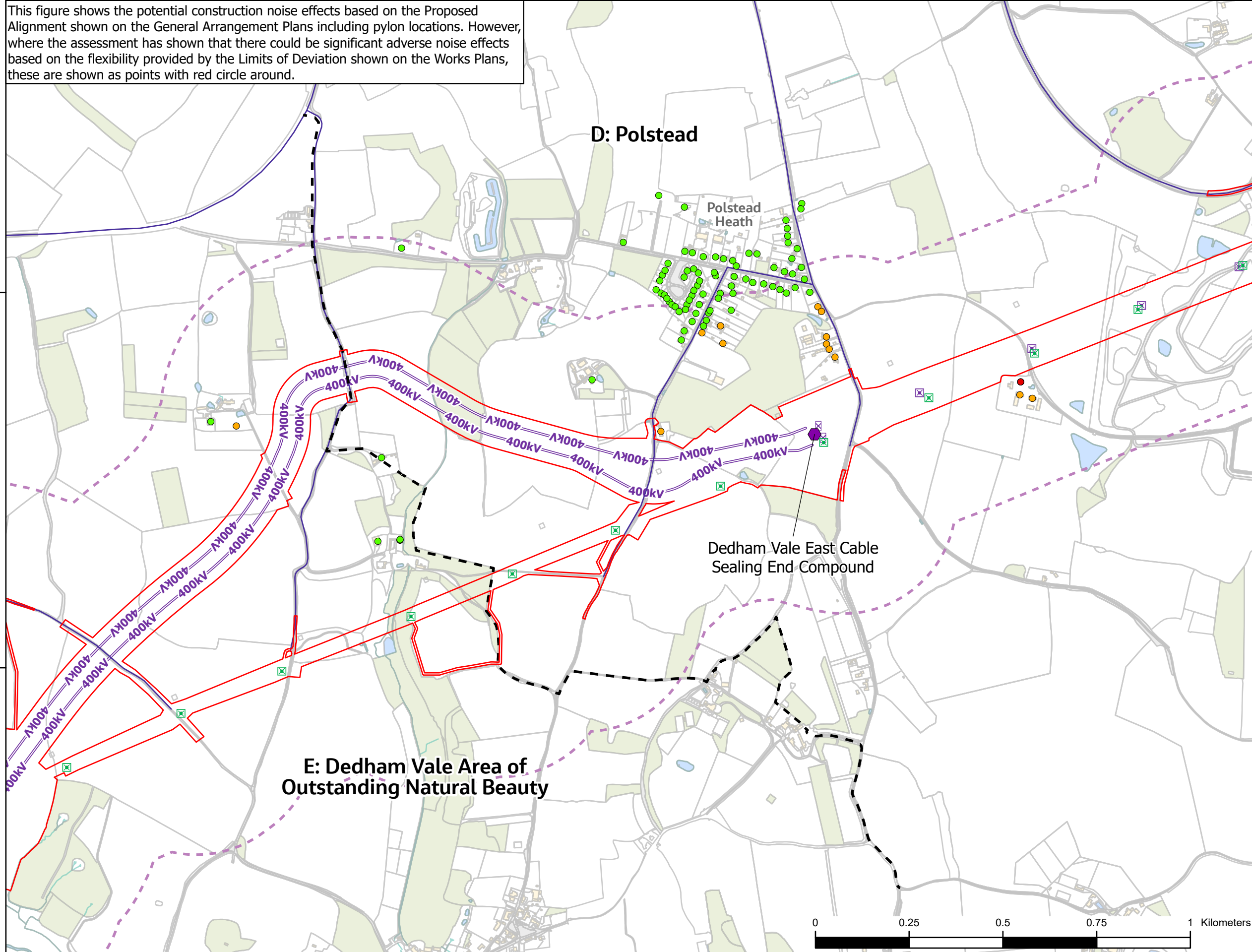






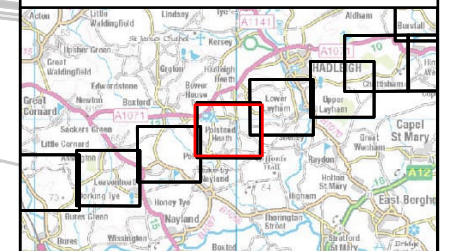
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  - Proposed grid supply point substation

- Construction noise effects**
- Residential receptors**
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors**
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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TITLE: **Figure 14.2 Potential Construction Noise Effects**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** GIS

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_14\_2\_Rev0** A3

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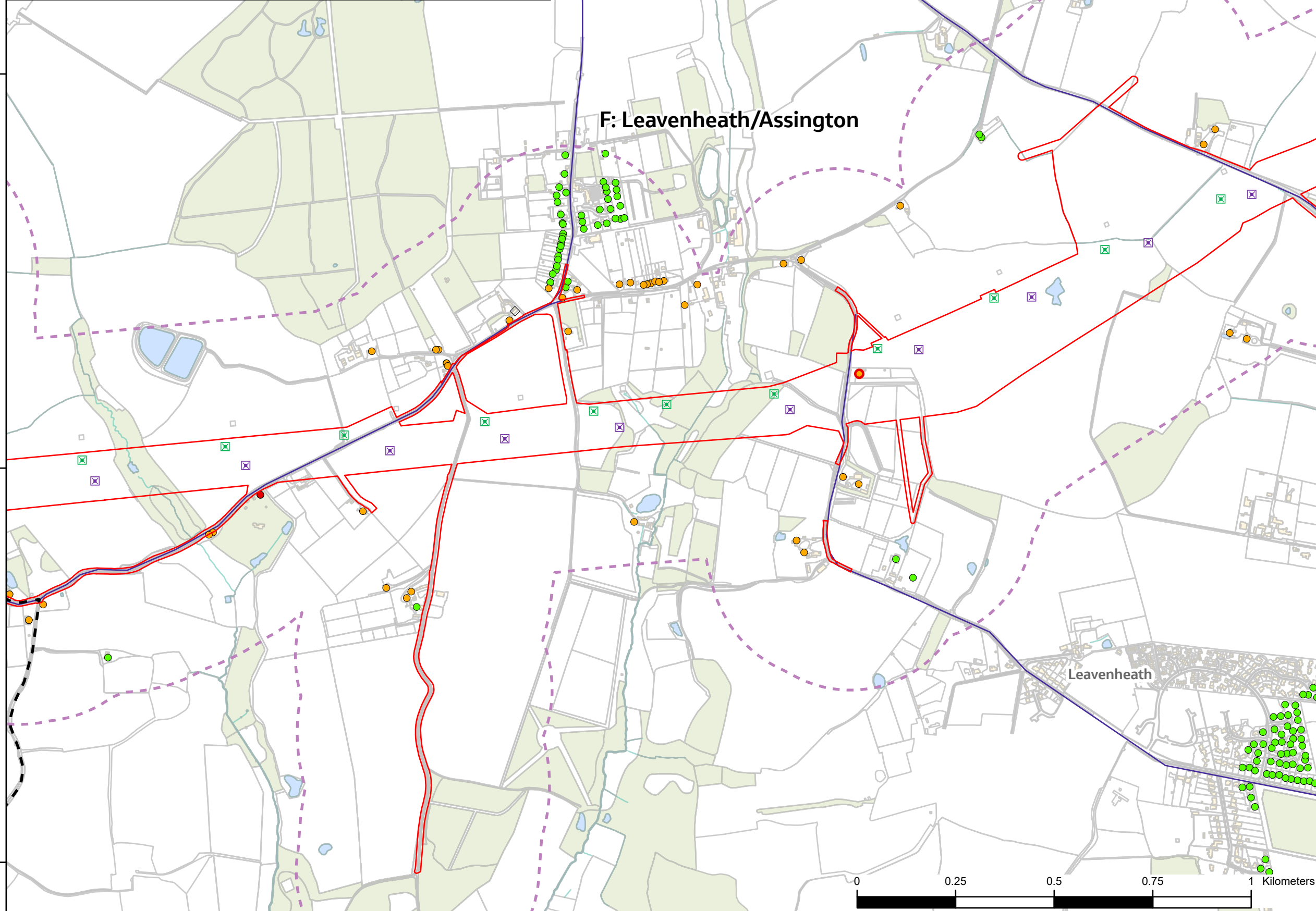






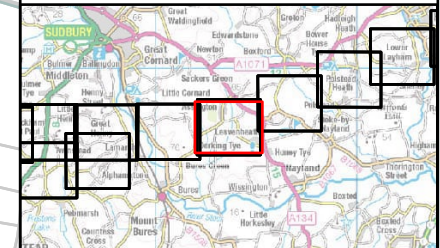
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  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation

- Construction noise effects**
- Residential receptors
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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TITLE: Figure 14.2 Potential Construction Noise Effects

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_14\_2\_Rev0 A3

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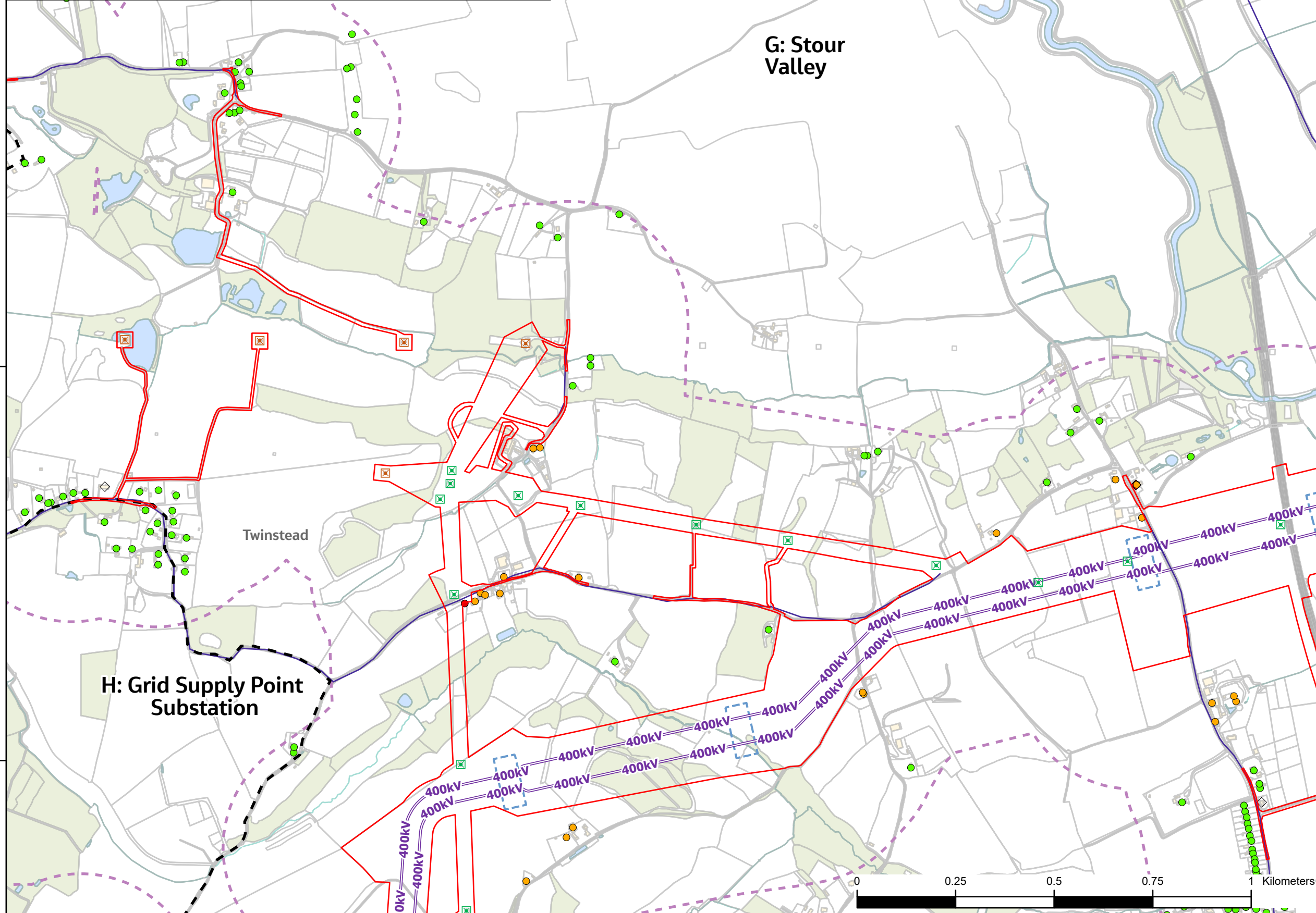




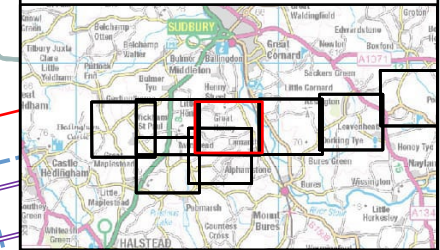


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  - Modification to existing pylon
  - Realignment of existing pylon
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  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation
- Construction noise effects**
- Residential receptors**
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors**
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect



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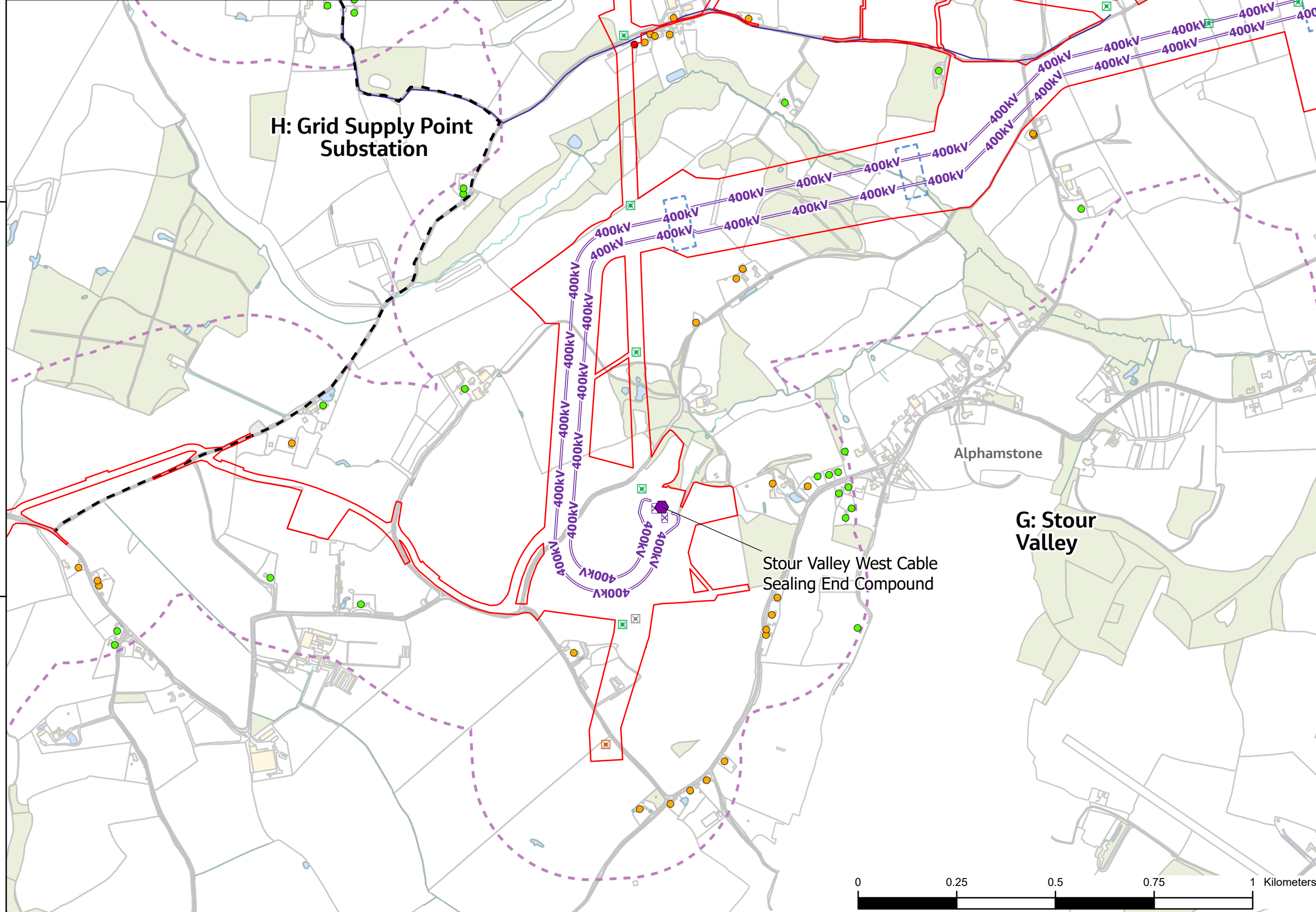
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 Potential Construction Noise Effects

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge	GIS
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**Legend**

- Section boundaries
- Order Limits
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- Proposed gantries
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- Realignment of existing gantry
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- Proposed grid supply point substation

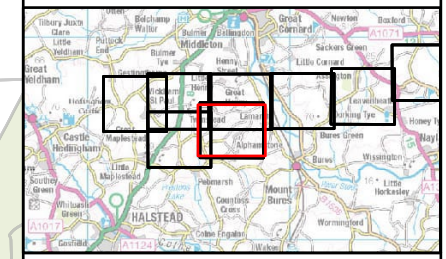
**Construction noise effects**

Residential receptors

- Significant adverse effect (without mitigation)
- Adverse effect (without mitigation)
- No adverse effect

Non-residential receptors

- ◆ Significant adverse effect (without mitigation)
- ◆ Adverse effect (without mitigation)
- ◆ No adverse effect



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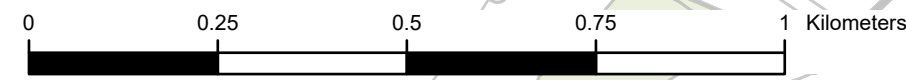
TITLE: **Figure 14.2 Potential Construction Noise Effects**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** **GIS**

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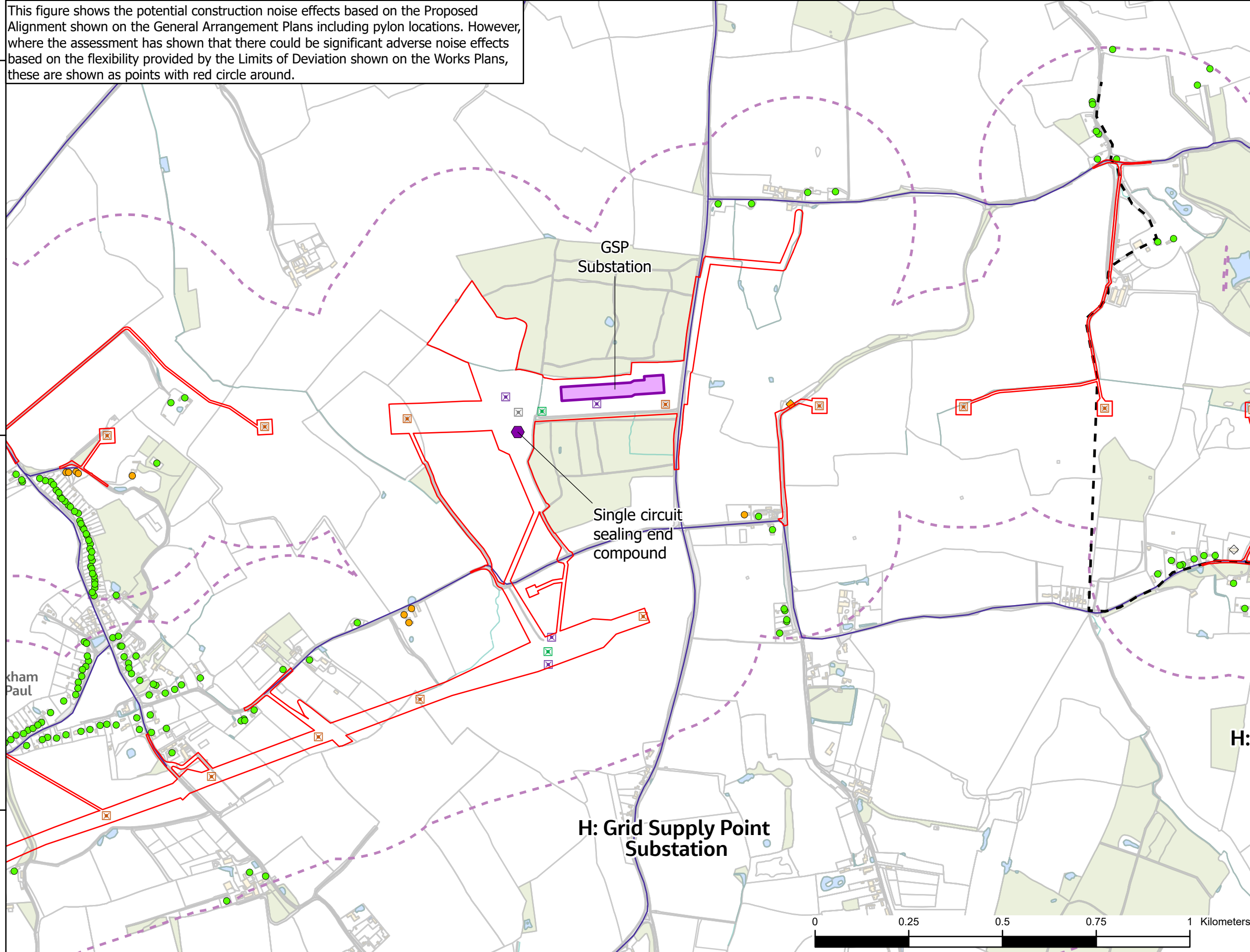
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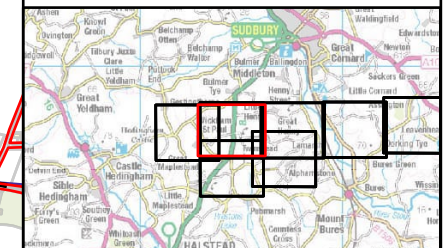
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  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation

- Construction noise effects**
- Residential receptors**
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors**
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect



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TITLE: Figure 14.2  
 Potential Construction Noise Effects

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_14\_2\_Rev0 A3

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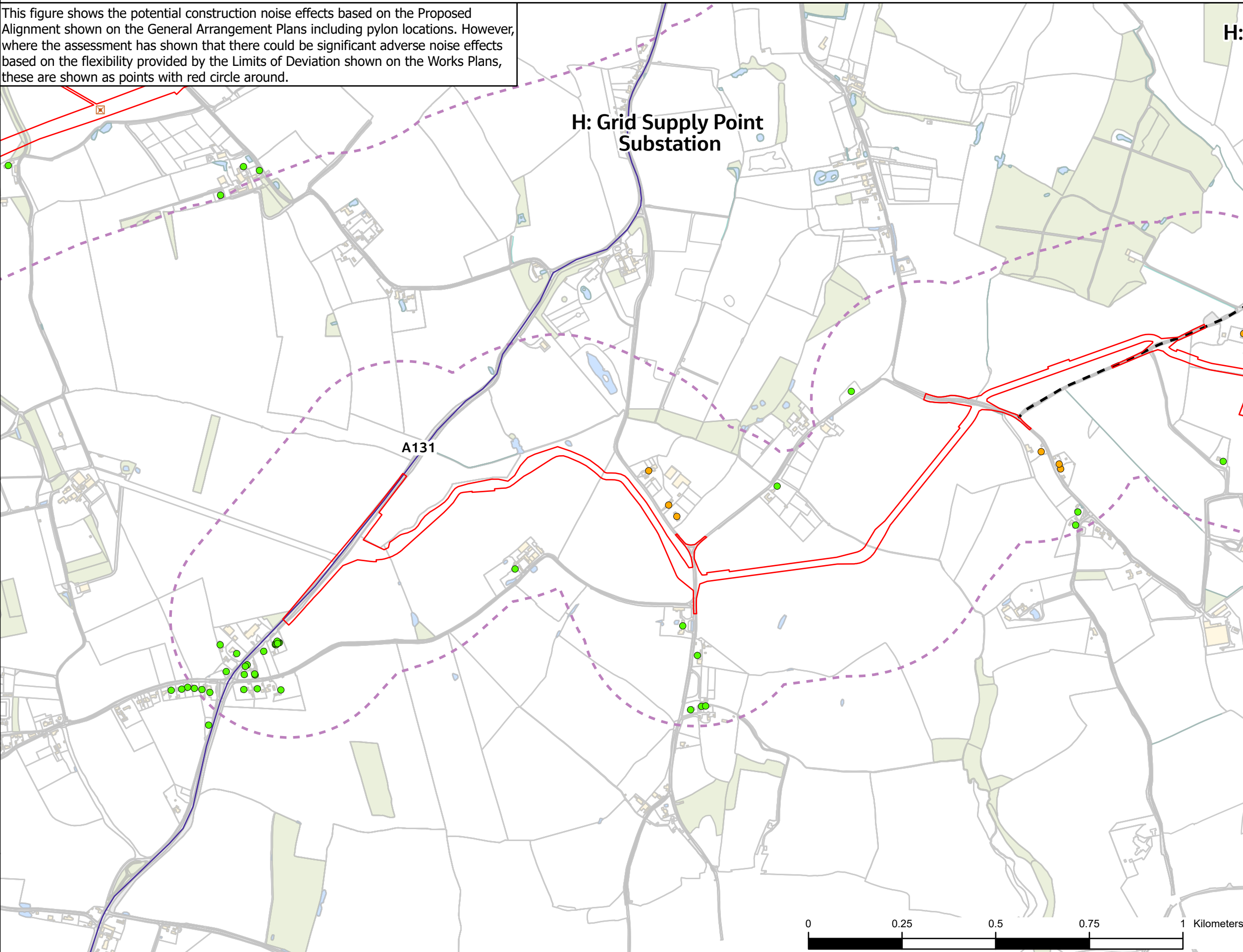


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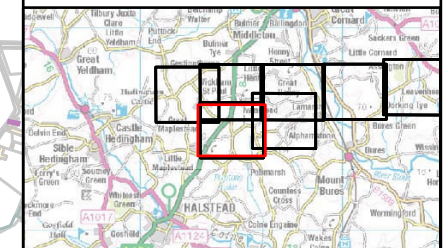
**H: Grid Supply Point Substation**

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235000  
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- Legend**
- Section boundaries
  - Order Limits
  - Noise study area (300m)
  - Trenchless crossing pits
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  - No adverse effect
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- ◆ Significant adverse effect (without mitigation)
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  - ◆ No adverse effect



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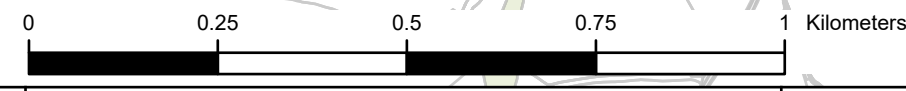


TITLE: **Figure 14.2 Potential Construction Noise Effects**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** GIS

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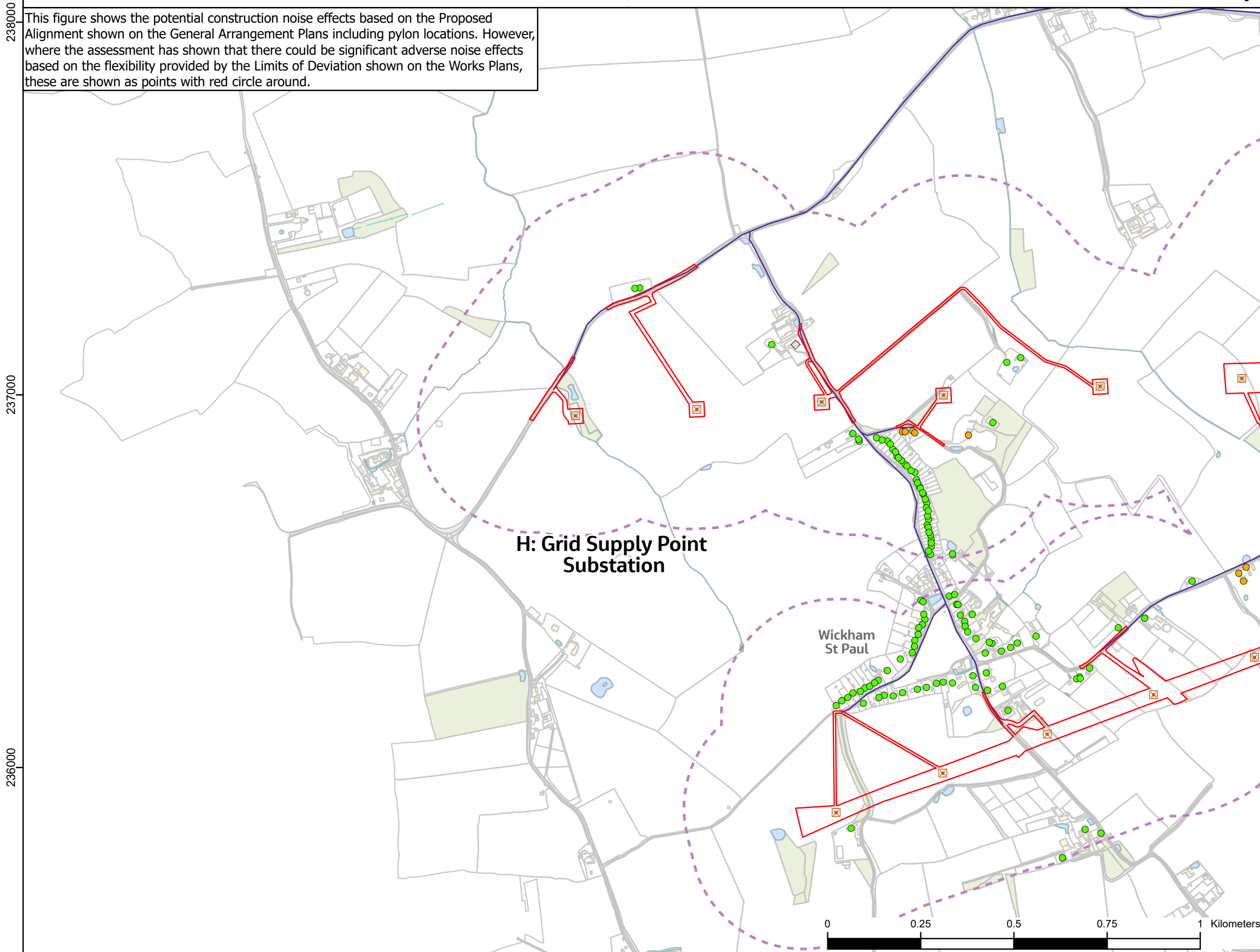
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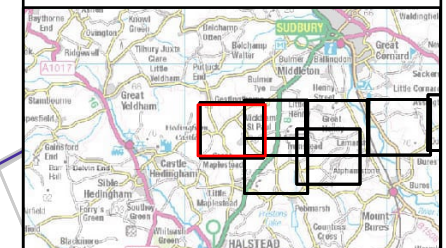


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This figure shows the potential construction noise effects based on the Proposed Alignment shown on the General Arrangement Plans including pylon locations. However, where the assessment has shown that there could be significant adverse noise effects based on the flexibility provided by the Limits of Deviation shown on the Works Plans, these are shown as points with red circle around.



- Legend**
- Section boundaries
  - Order Limits
  - Noise study area (300m)
  - Trenchless crossing pits
  - Construction routes to the Strategic Road Network
  - Proposed underground line
  - Proposed pylons
  - Proposed gantries
  - Modification to existing pylon
  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation
- Construction noise effects**
- Residential receptors**
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors**
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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PROJECT: Bramford to Twinstead Reinforcement



TITLE: Figure 14.2  
 Potential Construction Noise Effects

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_14\_2\_Rev0 A3

NG DRAWING No. BT-JAC-020631-500-0099	SHEET NO. 14	NO. OF SHEETS 14	ISSUE: A
SCALE: 1:10000			

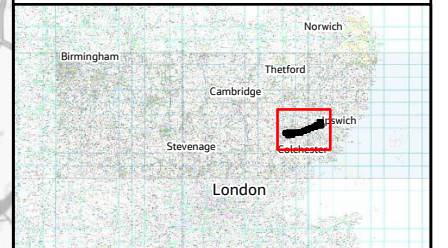
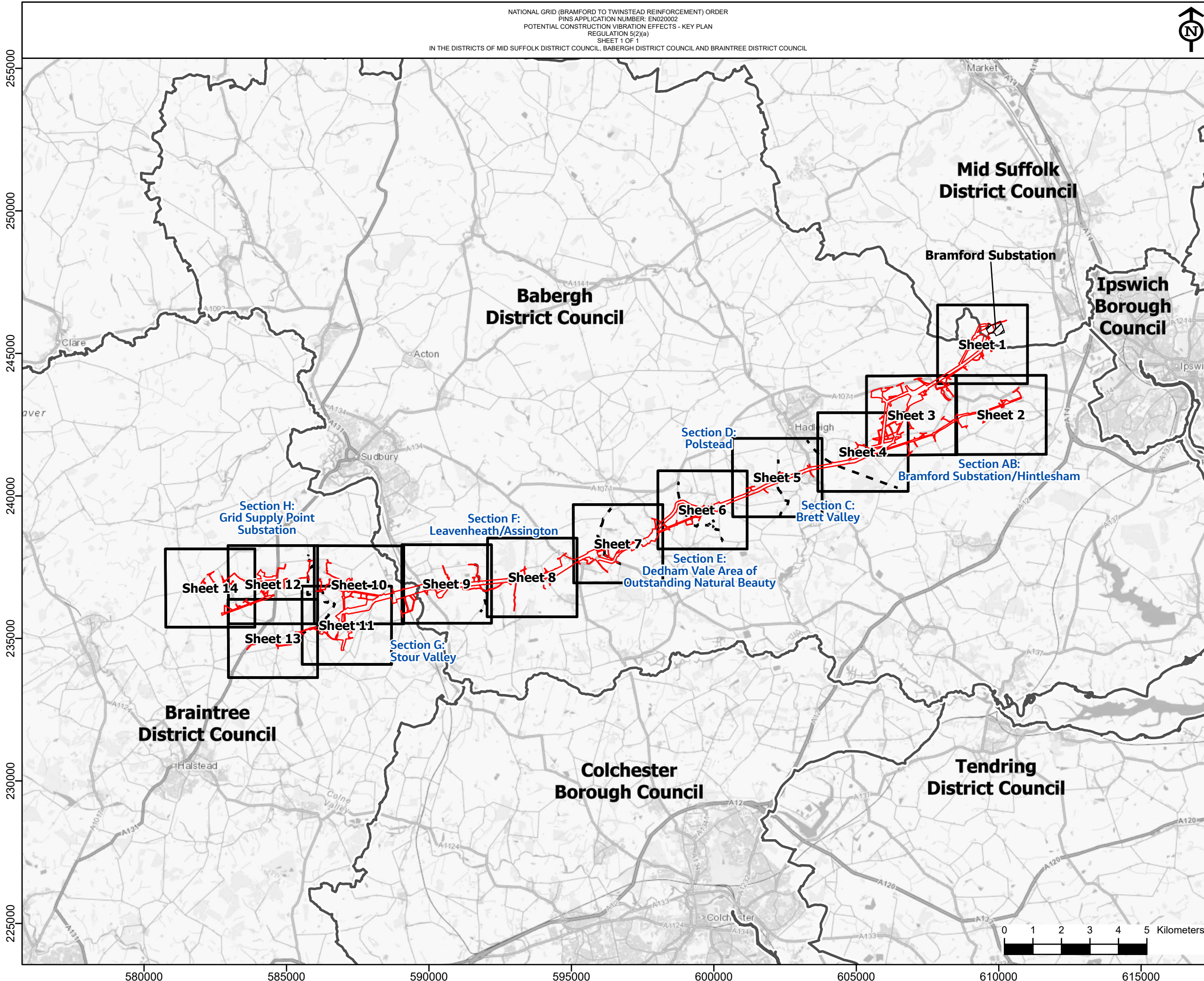




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Legend

- Section boundaries
- Order Limits
- Local authority districts
- Existing Bramford Substation



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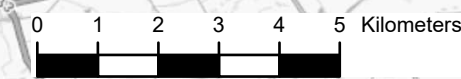


TITLE: Figure 14.3  
 Potential Construction Vibration Effects - Key Plan

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge **GIS**

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_14\_3\_Rev0\_KeyPlan **A3**

NG DRAWING No. BT-JAC-020631-500-0100	SHEET NO. 1	NO. OF SHEETS 1	ISSUE: A
SCALE: 1:125000			



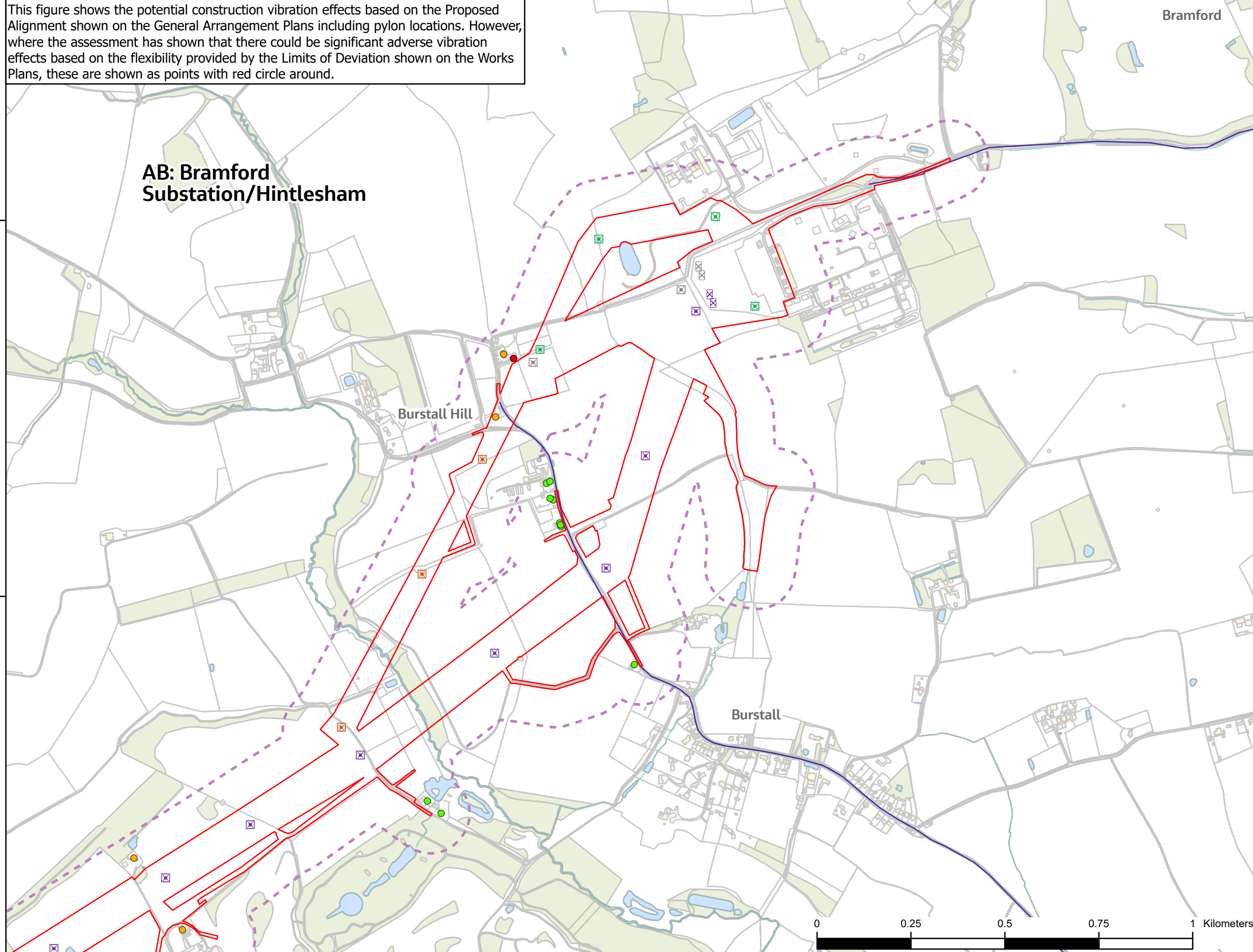




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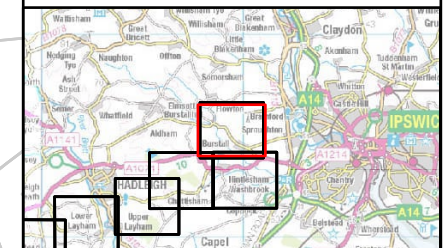
This figure shows the potential construction vibration effects based on the Proposed Alignment shown on the General Arrangement Plans including pylon locations. However, where the assessment has shown that there could be significant adverse vibration effects based on the flexibility provided by the Limits of Deviation shown on the Works Plans, these are shown as points with red circle around.

**AB: Bramford Substation/Hintlesham**



- Legend**
- Section boundaries
  - Order Limits
  - Vibration study area (100m)
  - Trenchless crossing pits
  - Construction routes to the Strategic Road Network
  - Proposed underground line
  - Proposed pylons
  - Proposed gantries
  - Modification to existing pylon
  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation

- Construction vibration effects**
- Residential receptors
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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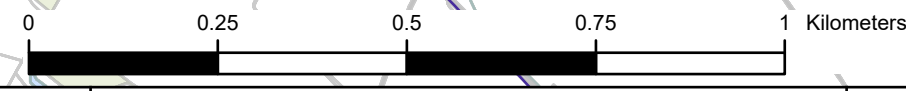


TITLE: **Figure 14.3 Potential Construction Vibration Effects**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** GIS

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_14\_3\_Rev0** A3

NG DRAWING No. BT-JAC-020631-500-0100	SHEET NO. <b>1</b>	NO. OF SHEETS <b>14</b>	ISSUE: <b>A</b>
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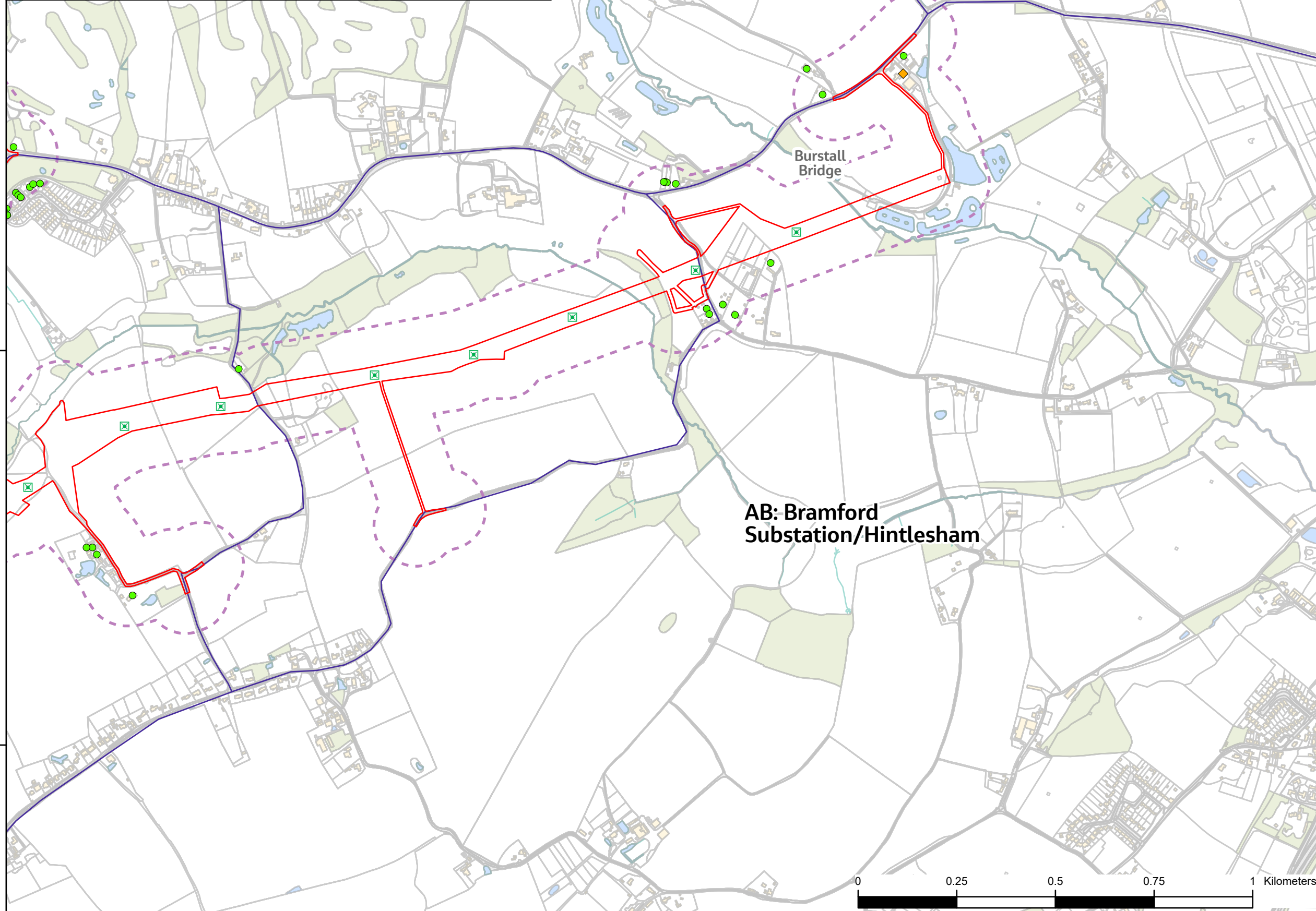
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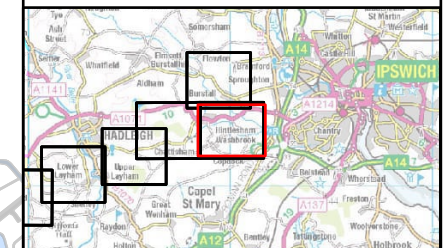
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- Legend**
- Section boundaries
  - Order Limits
  - Vibration study area (100m)
  - Trenchless crossing pits
  - Construction routes to the Strategic Road Network
  - Proposed underground line
  - Proposed pylons
  - Proposed gantries
  - Modification to existing pylon
  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation

- Construction vibration effects**
- Residential receptors**
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors**
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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TITLE: **Figure 14.3 Potential Construction Vibration Effects**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** GIS

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_14\_3\_Rev0** A3

NG DRAWING No. **BT-JAC-020631-500-0100** SHEET NO. **2** NO. OF SHEETS **14** ISSUE: **A**

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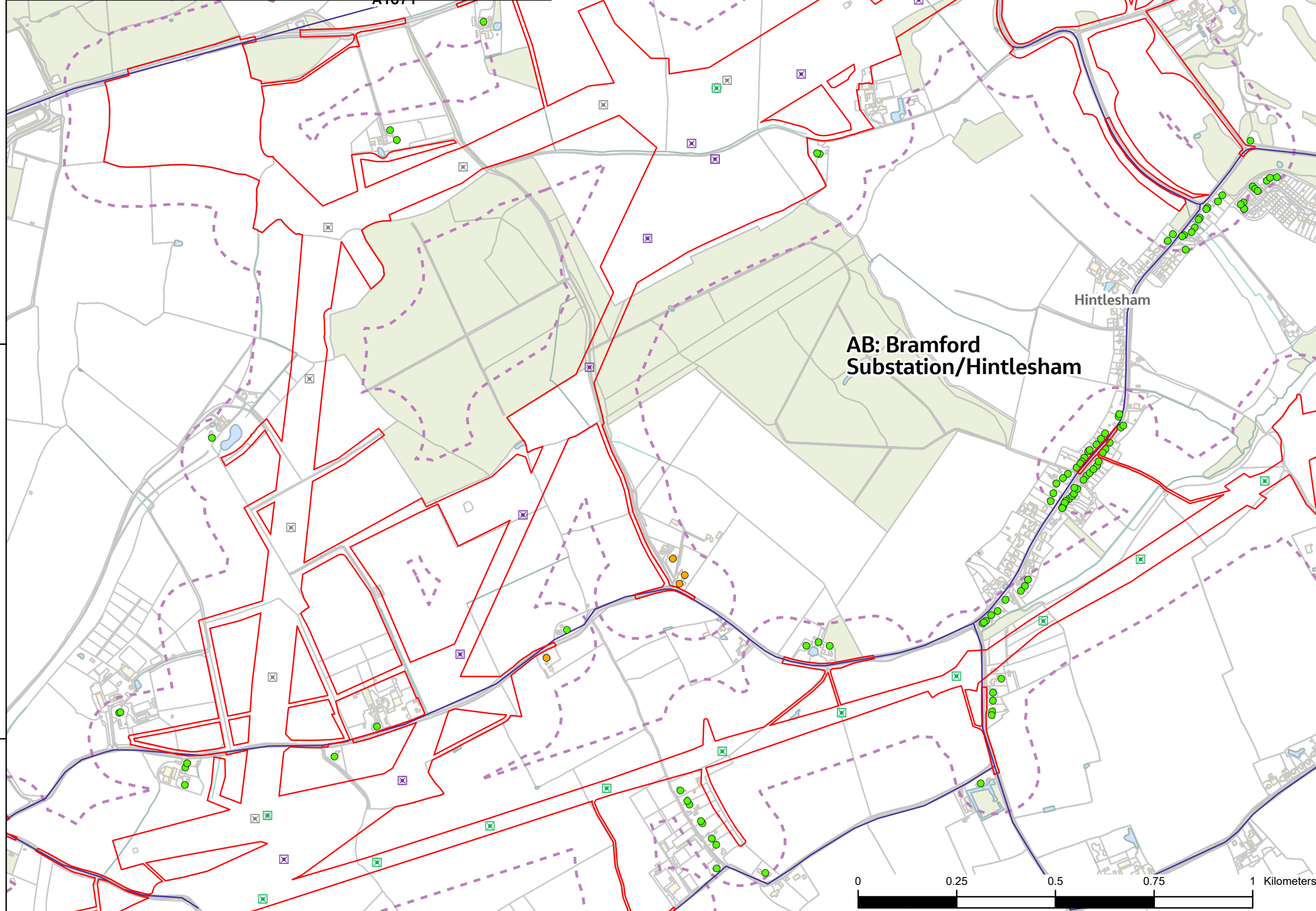
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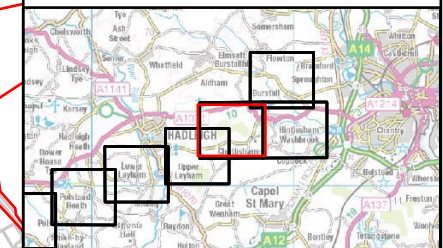
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- Legend**
- Section boundaries
  - Order Limits
  - Vibration study area (100m)
  - Trenchless crossing pits
  - Construction routes to the Strategic Road Network
  - Proposed underground line
  - Proposed pylons
  - Proposed gantries
  - Modification to existing pylon
  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation

- Construction vibration effects**
- Residential receptors
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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TITLE: **Figure 14.3 Potential Construction Vibration Effects**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** GIS

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_14\_3\_Rev0** A3

NG DRAWING No. **BT-JAC-020631-500-0100** SHEET NO. **3** NO. OF SHEETS **14** ISSUE: **A**  
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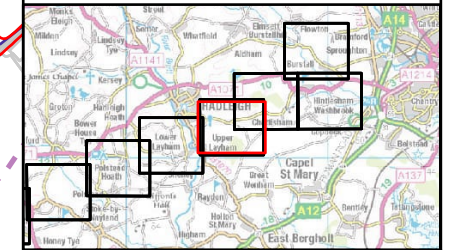
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**AB: Bramford Substation/Hintlesham**

Upper Layham

**C: Brett Valley**

- Legend**
- Section boundaries
  - Order Limits
  - Vibration study area (100m)
  - Trenchless crossing pits
  - Construction routes to the Strategic Road Network
  - Proposed underground line
  - Proposed pylons
  - Proposed gantries
  - Modification to existing pylon
  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation
- Construction vibration effects**
- Residential receptors
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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PROJECT: **Bramford to Twinstead Reinforcement**

**nationalgrid**

TITLE: **Figure 14.3 Potential Construction Vibration Effects**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** GIS

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_14\_3\_Rev0** A3

NG DRAWING No. **BT-JAC-020631-500-0100** SHEET NO. **4** NO. OF SHEETS **14** ISSUE: **A**  
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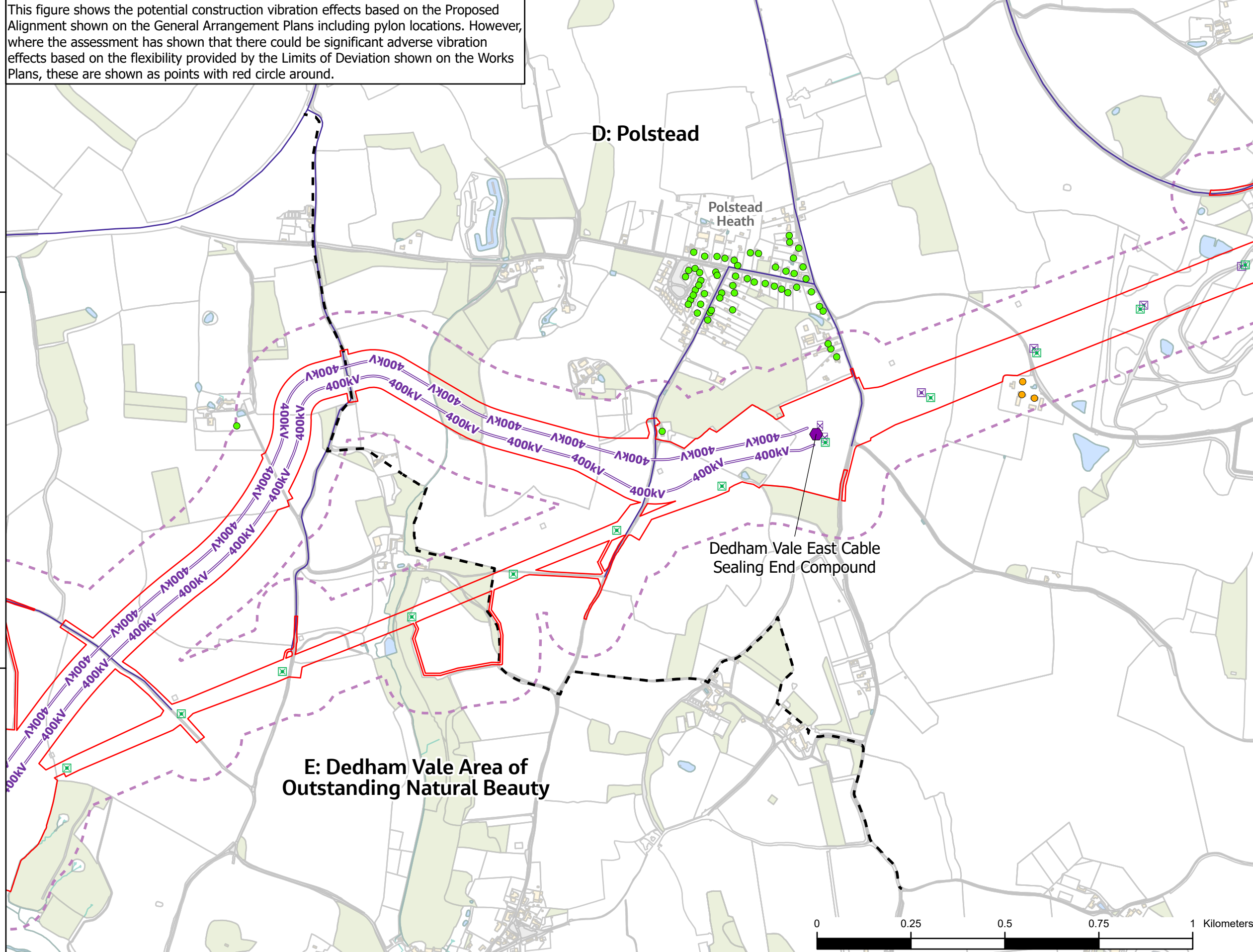




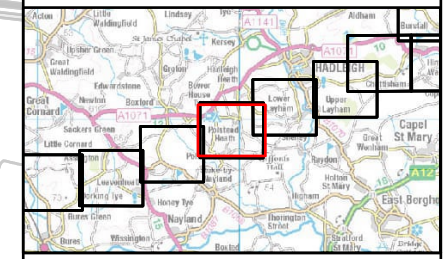


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- Legend**
- Section boundaries
  - Order Limits
  - - - Vibration study area (100m)
  - - - Trenchless crossing pits
  - Construction routes to the Strategic Road Network
  - Proposed underground line
  - Proposed pylons
  - Proposed gantries
  - Modification to existing pylon
  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation
- Construction vibration effects**
- Residential receptors**
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors**
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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TITLE: Figure 14.3  
 Potential Construction Vibration Effects

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_14\_3\_Rev0

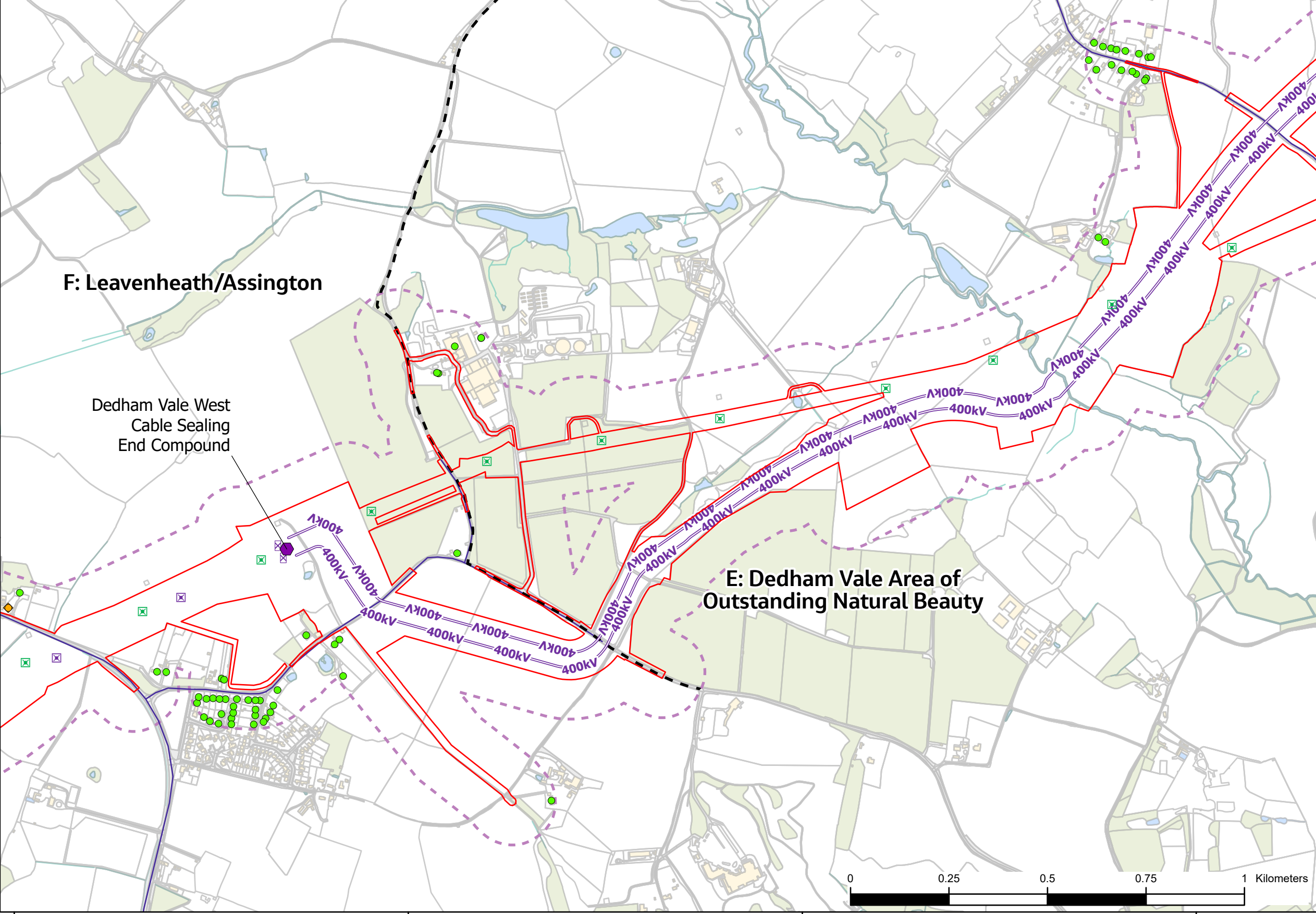
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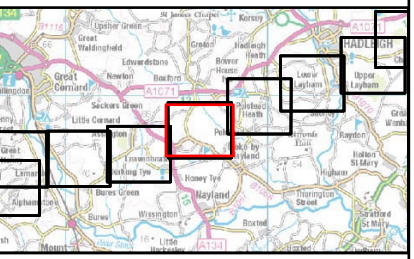


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- Legend**
- Section boundaries
  - Order Limits
  - Vibration study area (100m)
  - Trenchless crossing pits
  - Construction routes to the Strategic Road Network
  - Proposed underground line
  - Proposed pylons
  - Proposed gantries
  - Modification to existing pylon
  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation
- Construction vibration effects**
- Residential receptors
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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TITLE: Figure 14.3  
 Potential Construction Vibration Effects

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_14\_3\_Rev0

NG DRAWING No. BT-JAC-020631-500-0100	SHEET NO. 7	NO. OF SHEETS 14	ISSUE: A
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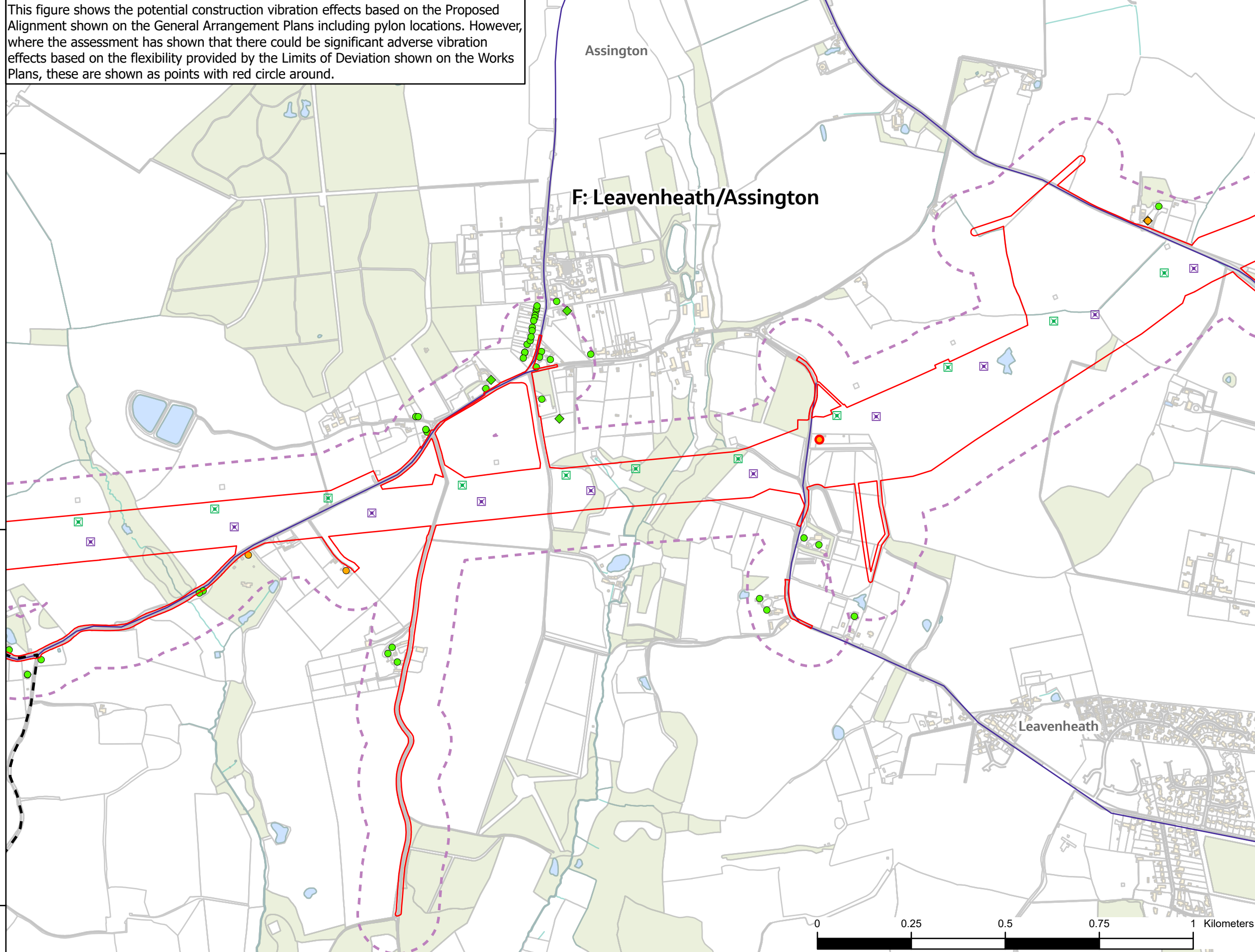




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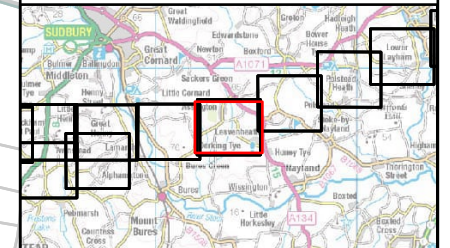
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**F: Leavenheath/Assington**



- Legend**
- Section boundaries
  - Order Limits
  - Vibration study area (100m)
  - Trenchless crossing pits
  - Construction routes to the Strategic Road Network
  - Proposed underground line
  - Proposed pylons
  - Proposed gantries
  - Modification to existing pylon
  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation

- Construction vibration effects**
- Residential receptors
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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TITLE: **Figure 14.3  
Potential Construction Vibration Effects**

CIRCUIT / SITE: **Bramford – Pelham & Bramford  
– Braintree – Bulls Lodge** GIS

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_14\_3\_Rev0** A3

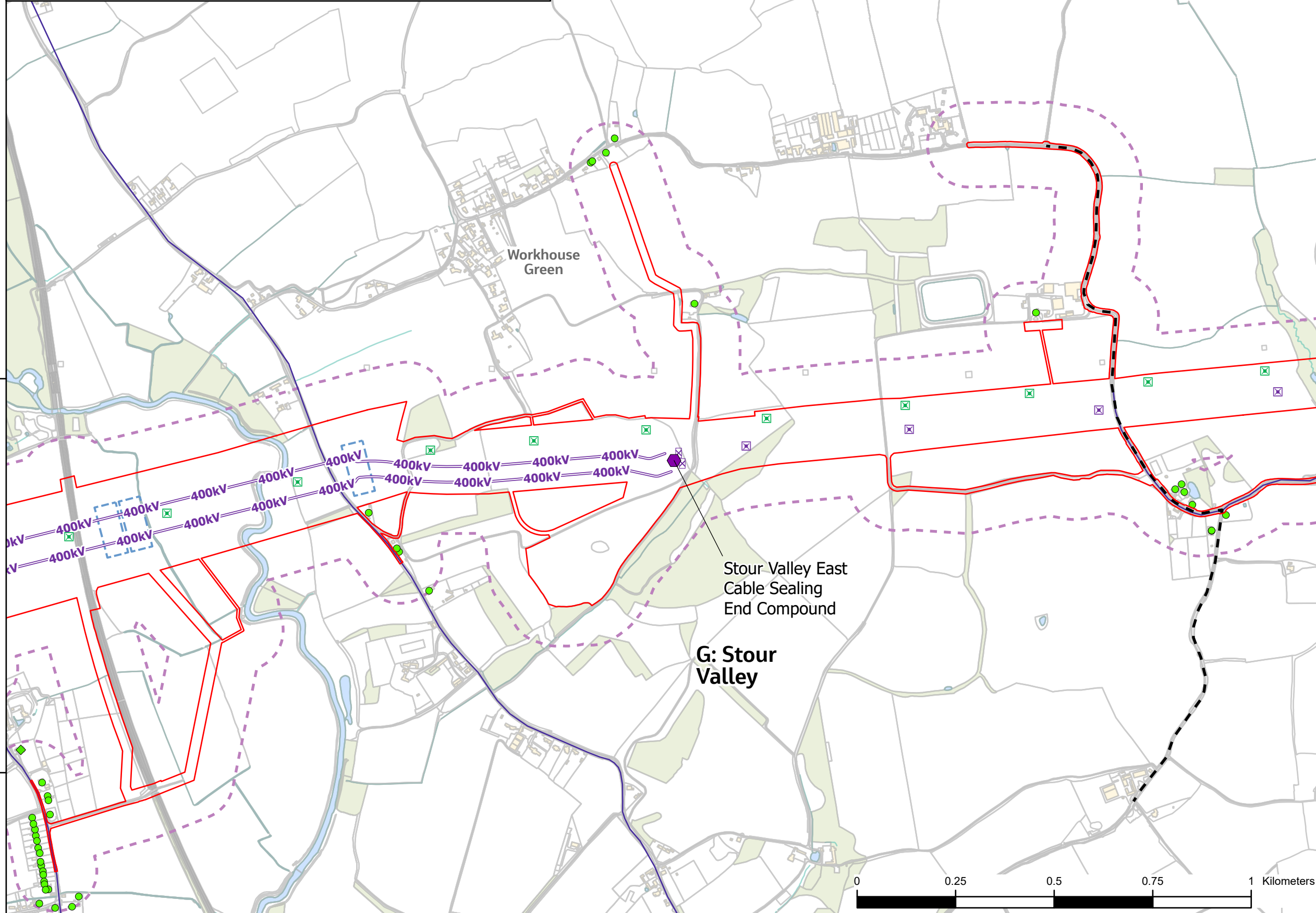
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- Legend**
- Section boundaries
  - Order Limits
  - Vibration study area (100m)
  - Trenchless crossing pits
  - Construction routes to the Strategic Road Network
  - Proposed underground line
  - Proposed pylons
  - Proposed gantries
  - Modification to existing pylon
  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation

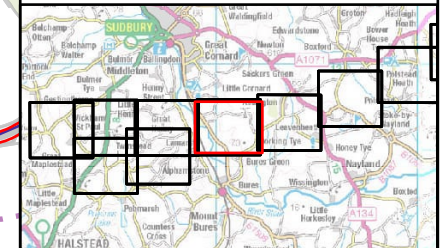
**Construction vibration effects**

Residential receptors

- Significant adverse effect (without mitigation)
- Adverse effect (without mitigation)
- No adverse effect

Non-residential receptors

- ◆ Significant adverse effect (without mitigation)
- ◆ Adverse effect (without mitigation)
- ◆ No adverse effect



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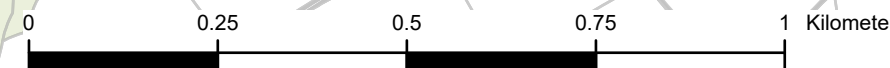


TITLE: **Figure 14.3  
Potential Construction Vibration Effects**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** GIS

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NG DRAWING No. BT-JAC-020631-500-0100	SHEET NO. <b>9</b>	NO. OF SHEETS <b>14</b>	ISSUE: <b>A</b>
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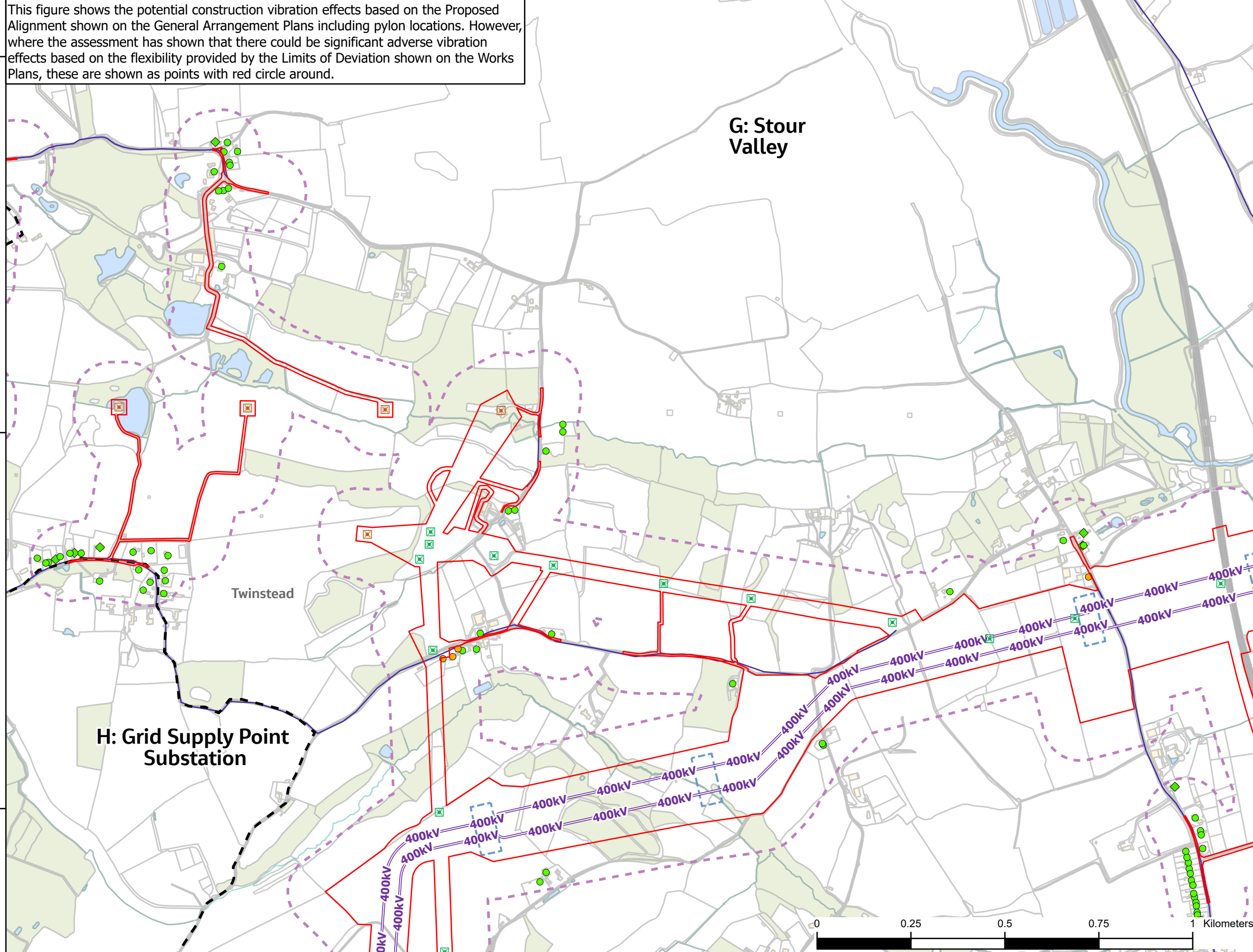
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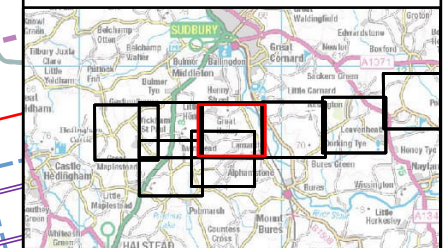
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- Legend**
- Section boundaries
  - Order Limits
  - Vibration study area (100m)
  - Trenchless crossing pits
  - Construction routes to the Strategic Road Network
  - Proposed underground line
  - Proposed pylons
  - Proposed gantries
  - Modification to existing pylon
  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation
- Construction vibration effects**
- Residential receptors
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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TITLE: Figure 14.3  
 Potential Construction Vibration Effects

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge	GIS
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SCALE: 1:10000	NO. OF SHEETS 14
	ISSUE: A

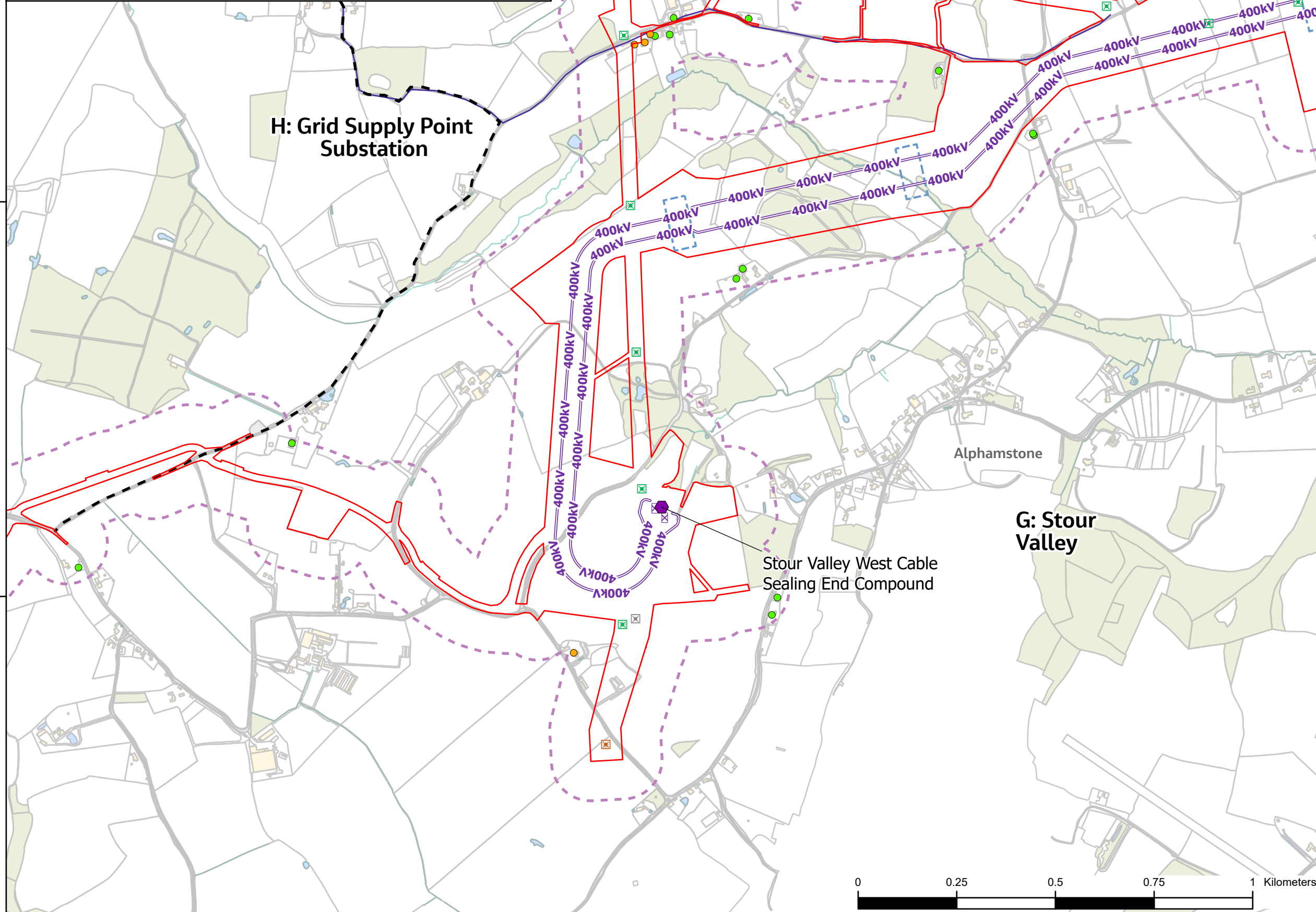
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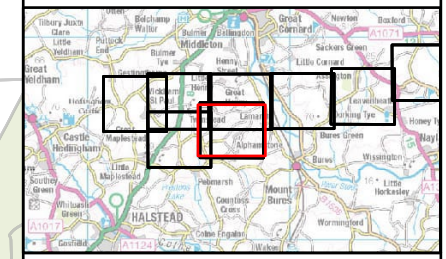


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- Legend**
- Section boundaries
  - Order Limits
  - Vibration study area (100m)
  - Trenchless crossing pits
  - Construction routes to the Strategic Road Network
  - Proposed underground line
  - Proposed pylons
  - Proposed gantries
  - Modification to existing pylon
  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation
- Construction vibration effects**
- Residential receptors**
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors**
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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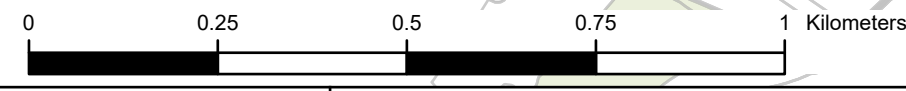


TITLE: **Figure 14.3 Potential Construction Vibration Effects**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** **GIS**

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_14\_3\_Rev0** **A3**

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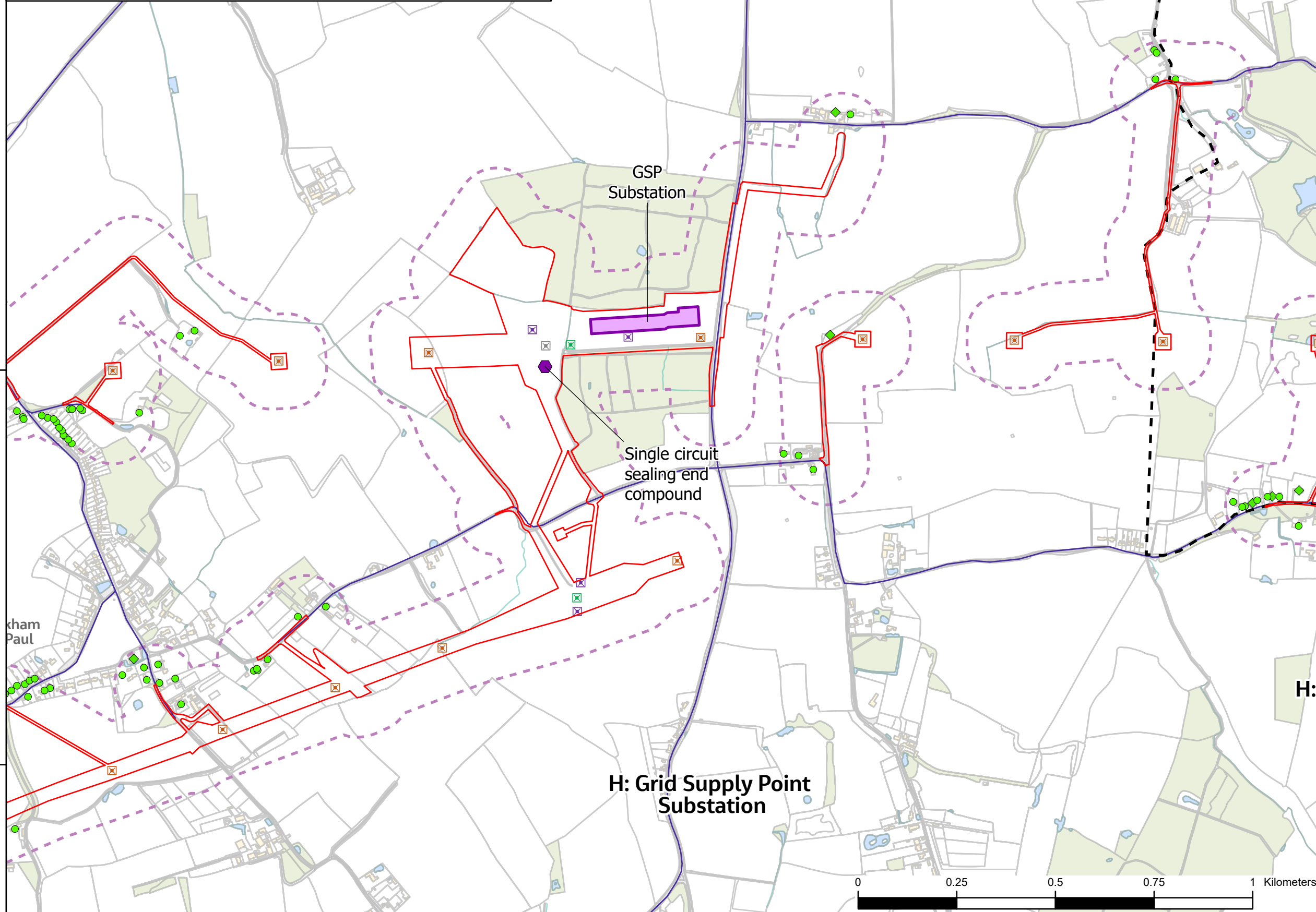
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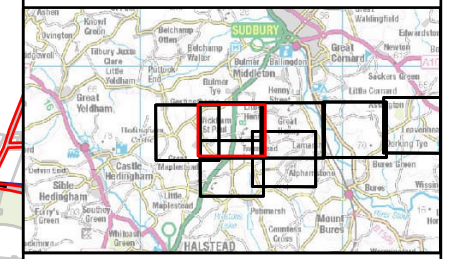


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This figure shows the potential construction vibration effects based on the Proposed Alignment shown on the General Arrangement Plans including pylon locations. However, where the assessment has shown that there could be significant adverse vibration effects based on the flexibility provided by the Limits of Deviation shown on the Works Plans, these are shown as points with red circle around.



- Legend**
- Section boundaries
  - Order Limits
  - Vibration study area (100m)
  - Trenchless crossing pits
  - Construction routes to the Strategic Road Network
  - Proposed underground line
  - Proposed pylons
  - Proposed gantries
  - Modification to existing pylon
  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation
- Construction vibration effects**
- Residential receptors
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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TITLE: Figure 14.3  
 Potential Construction Vibration Effects

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge	GIS
ORIGINATOR DRAWING NO. AAA_BTT_Figure_14_3_Rev0	A3
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SCALE: 1:10000	NO. OF SHEETS 14
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This figure shows the potential construction vibration effects based on the Proposed Alignment shown on the General Arrangement Plans including pylon locations. However, where the assessment has shown that there could be significant adverse vibration effects based on the flexibility provided by the Limits of Deviation shown on the Works Plans, these are shown as points with red circle around.

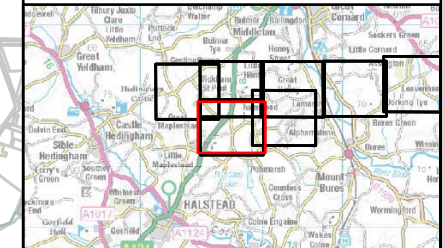
**H: Grid Supply Point Substation**

A131

- Legend**
- Section boundaries
  - Order Limits
  - - - Vibration study area (100m)
  - - - Trenchless crossing pits
  - Construction routes to the Strategic Road Network
  - Proposed underground line
  - Proposed pylons
  - Proposed gantries
  - Modification to existing pylon
  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation

**Construction vibration effects**

- Residential receptors**
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors**
- ◆ Significant adverse effect (without mitigation)
  - ◆ Adverse effect (without mitigation)
  - ◆ No adverse effect



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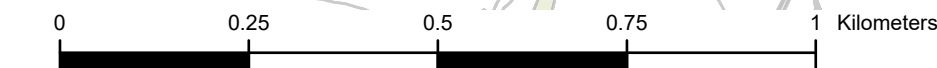


TITLE: **Figure 14.3  
Potential Construction Vibration Effects**

CIRCUIT / SITE :  
**Bramford – Pelham & Bramford  
 – Braintree – Bulls Lodge**

ORIGINATOR DRAWING NO.  
**AAA\_BTT\_Figure\_14\_3\_Rev0**

NG DRAWING No. BT-JAC-020631-500-0100	SHEET NO. <b>13</b>	NO. OF SHEETS <b>14</b>	ISSUE: <b>A</b>
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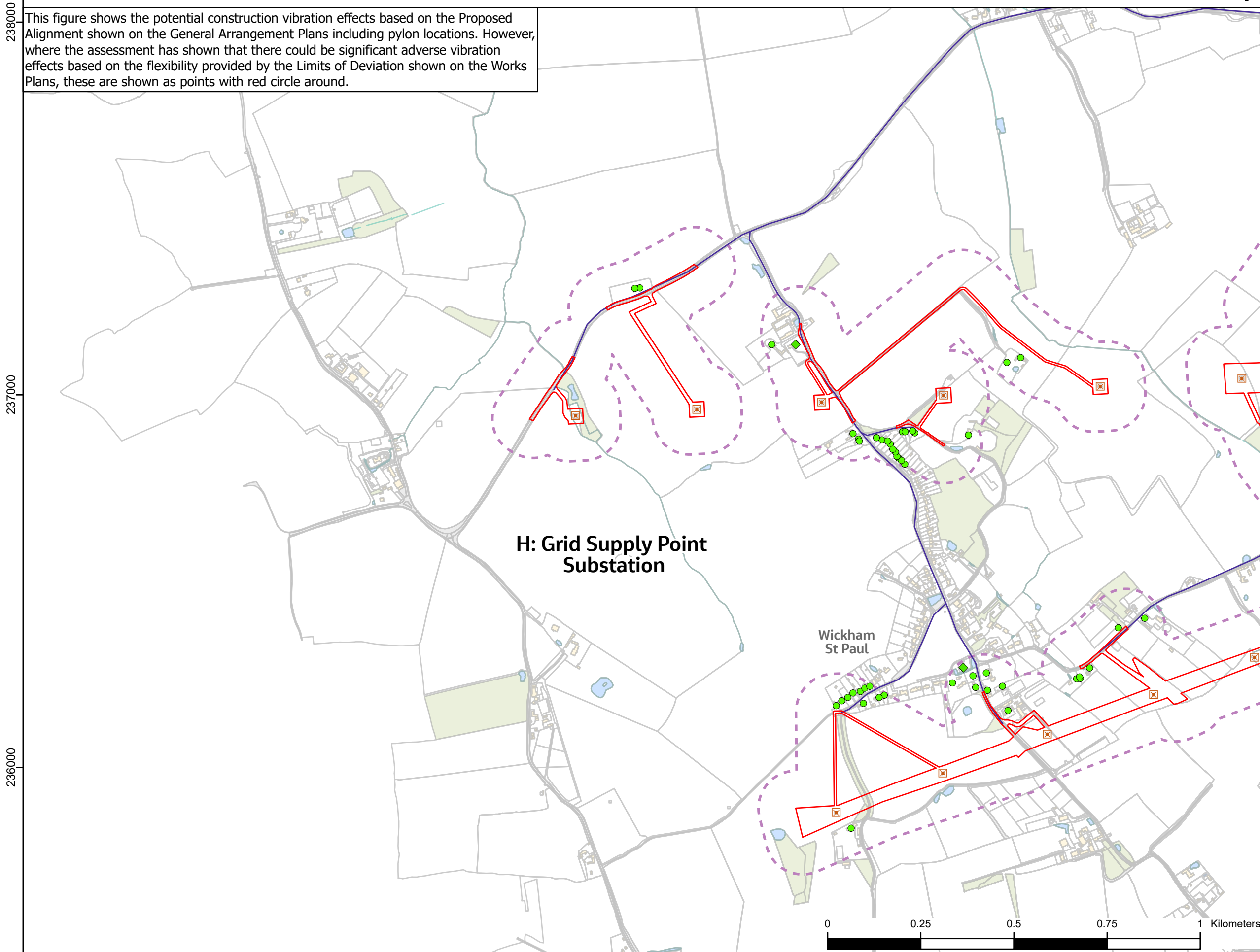
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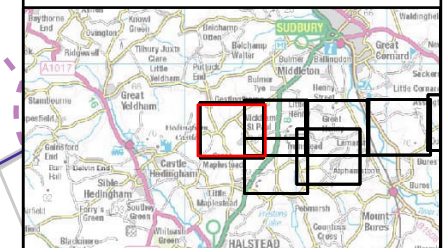


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This figure shows the potential construction vibration effects based on the Proposed Alignment shown on the General Arrangement Plans including pylon locations. However, where the assessment has shown that there could be significant adverse vibration effects based on the flexibility provided by the Limits of Deviation shown on the Works Plans, these are shown as points with red circle around.



- Legend**
- Section boundaries
  - Order Limits
  - Vibration study area (100m)
  - Trenchless crossing pits
  - Construction routes to the Strategic Road Network
  - Proposed underground line
  - Proposed pylons
  - Proposed gantries
  - Modification to existing pylon
  - Realignment of existing pylon
  - Removal of existing pylon
  - Realignment of existing gantry
  - Proposed cable sealing end compound
  - Proposed grid supply point substation
- Construction vibration effects**
- Residential receptors
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect
- Non-residential receptors
- Significant adverse effect (without mitigation)
  - Adverse effect (without mitigation)
  - No adverse effect



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TITLE: **Figure 14.3 Potential Construction Vibration Effects**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** GIS

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_14\_3\_Rev0** A3

NG DRAWING No. BT-JAC-020631-500-0100	SHEET NO. 14	NO. OF SHEETS 14	ISSUE: A
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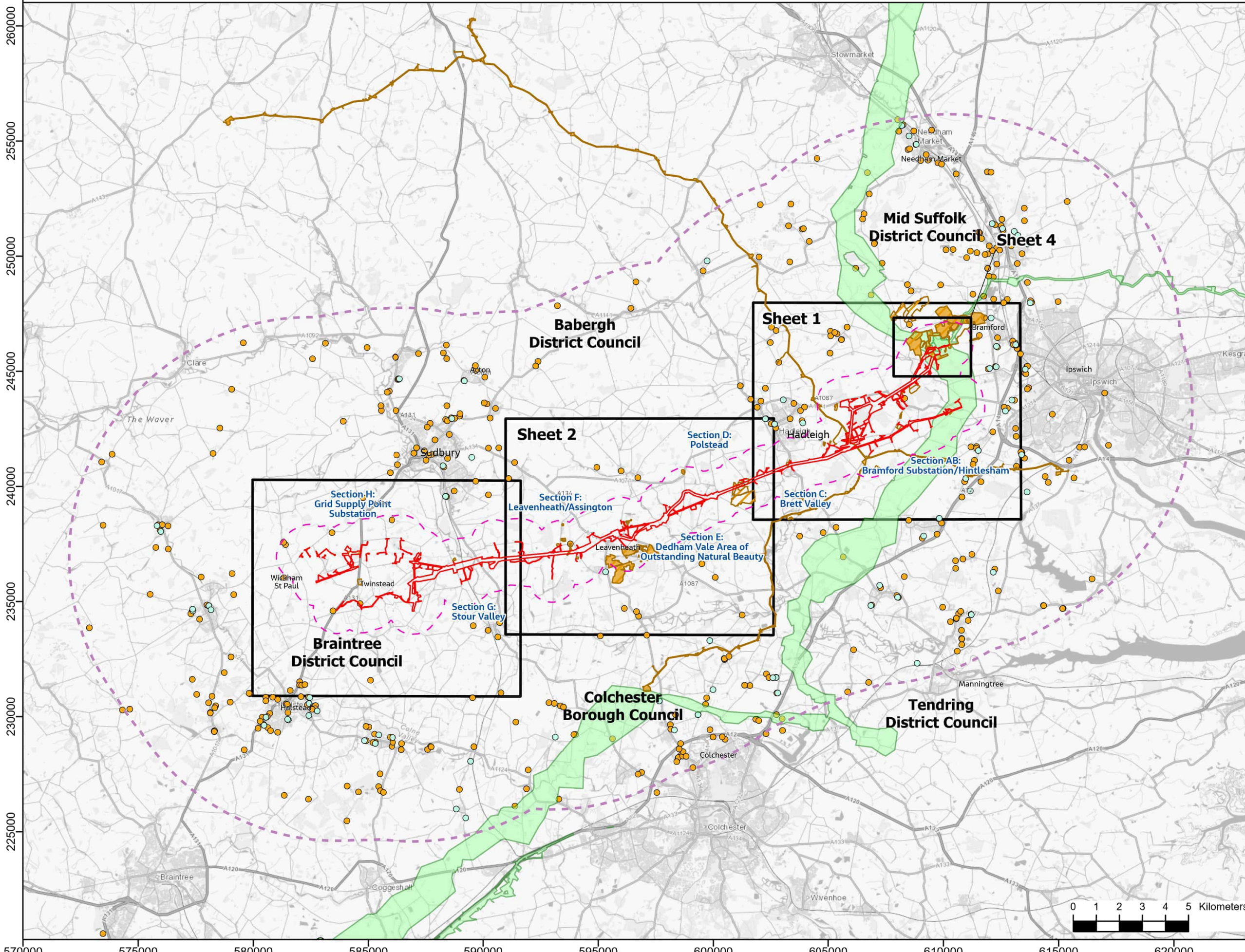








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Legend

- Order Limits
- Study area (10km)
- Study area (1km)
- Applications within 1km**
- Planning applications - Long List (Stage 1)
- Planning applications - Short list (taken forward to Stage 3)
- Applications/Allocations between 1-10km**
- Development allocations
- Planning applications - Long List (Stage 1)
- Planning applications - Short list (taken forward to Stage 3)
- Nationally Significant Infrastructure Projects - Long List (Stage 1)
- Nationally Significant Infrastructure Projects - Short list (taken forward to Stage 3)



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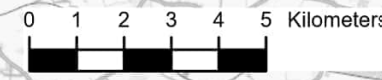


TITLE: Figure 15.2  
Proposed Developments - Key Plan

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_15\_2\_Rev0\_Key\_Plan

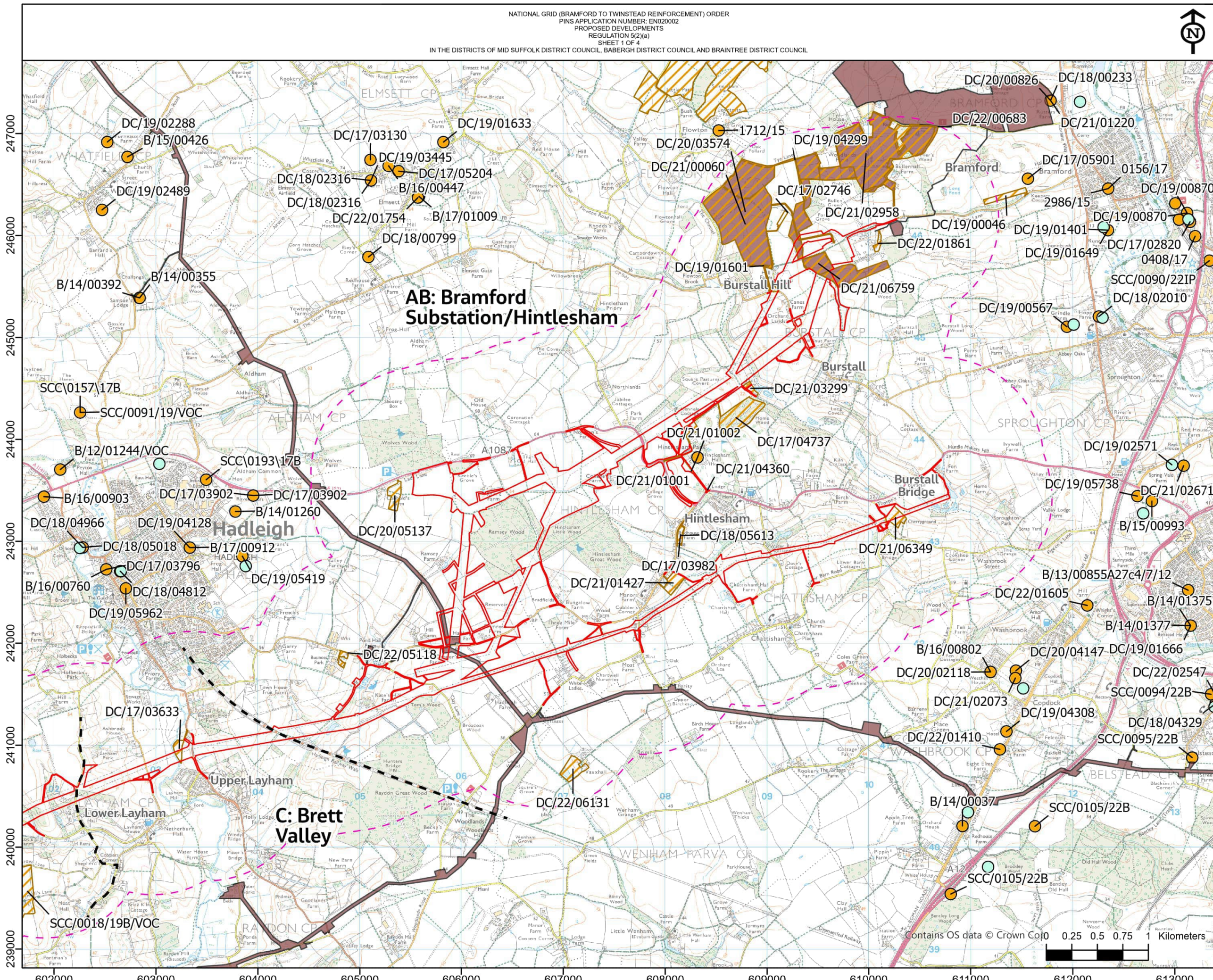
NG DRAWING No. BT-JAC-020631-500-0074	SHEET NO. 1	NO. OF SHEETS 1	ISSUE: A
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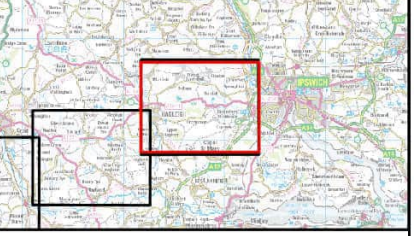


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- Legend**
- Section boundaries
  - Order Limits
  - Study area (1km)
  - Applications within 1km**
  - Planning applications - Long List (Stage 1)
  - Planning applications - Short list (taken forward to Stage 3)
  - Applications/Allocations between 1-10km**
  - Development allocations
  - Planning applications - Long list (Stage 1)
  - Planning applications - Short list (taken forward to Stage 3)

Note: The 10km study area excludes significant urban areas, including Ipswich and south of the A12 (see Chapter 15: Cumulative Effects Assessment (application document 6.2.15) for details). The other known developments (see Appendix 15.3: Long List of Other Developments (application document 6.3.15.3)) are excluded from the figure but are included within the long and short lists as appropriate.



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**nationalgrid**

TITLE: Figure 15.2 Proposed Developments

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_15\_2\_Rev0 A3

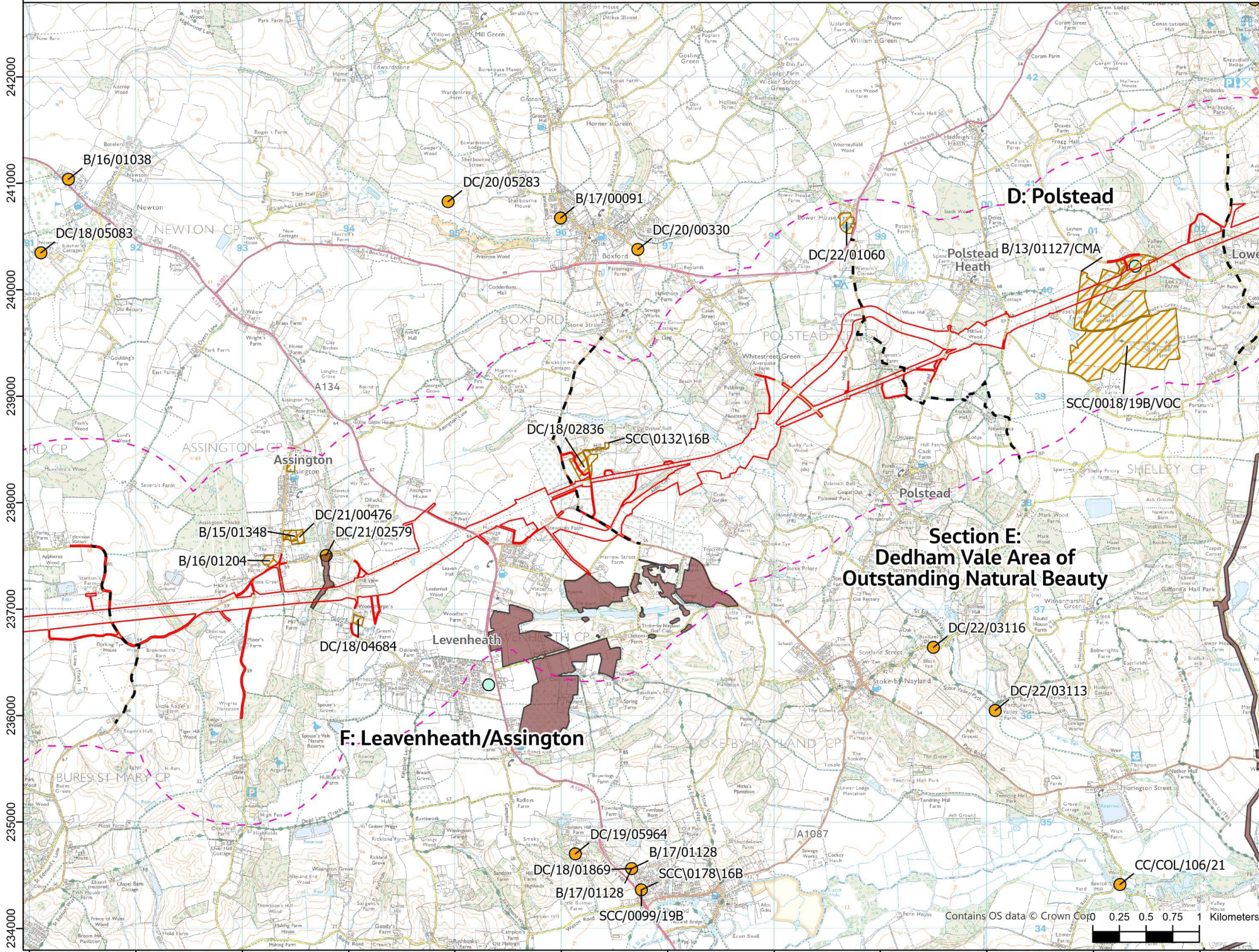
NG DRAWING No. BT-JAC-020631-500-0074	SHEET NO. 1	NO. OF SHEETS 4	ISSUE: A
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- Legend**
- Section boundaries
  - Order Limits
  - Study area (1km)
  - Applications within 1km**
  - Planning applications - Long List (Stage 1)
  - Planning applications - Short list (taken forward to Stage 3)
  - Applications/Allocations between 1-10km**
  - Development allocations
  - Planning applications - Long list (Stage 1)
  - Planning applications - Short list (taken forward to Stage 3)

Note: The 10km study area excludes significant urban areas, including Ipswich and south of the A12 (see Chapter 15: Cumulative Effects Assessment (application document 6.2.15) for details). The other known developments (see Appendix 15.3: Long List of Other Developments (application document 6.3.15.3)) are excluded from the figure but are included within the long and short lists as appropriate.



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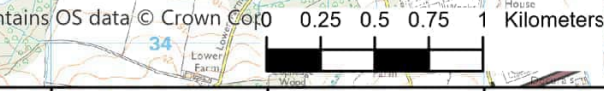
A	04/2023	Rev A for DCO Application	PM	MS	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: Bramford to Twinstead Reinforcement

**nationalgrid**

TITLE: Figure 15.2 Proposed Developments

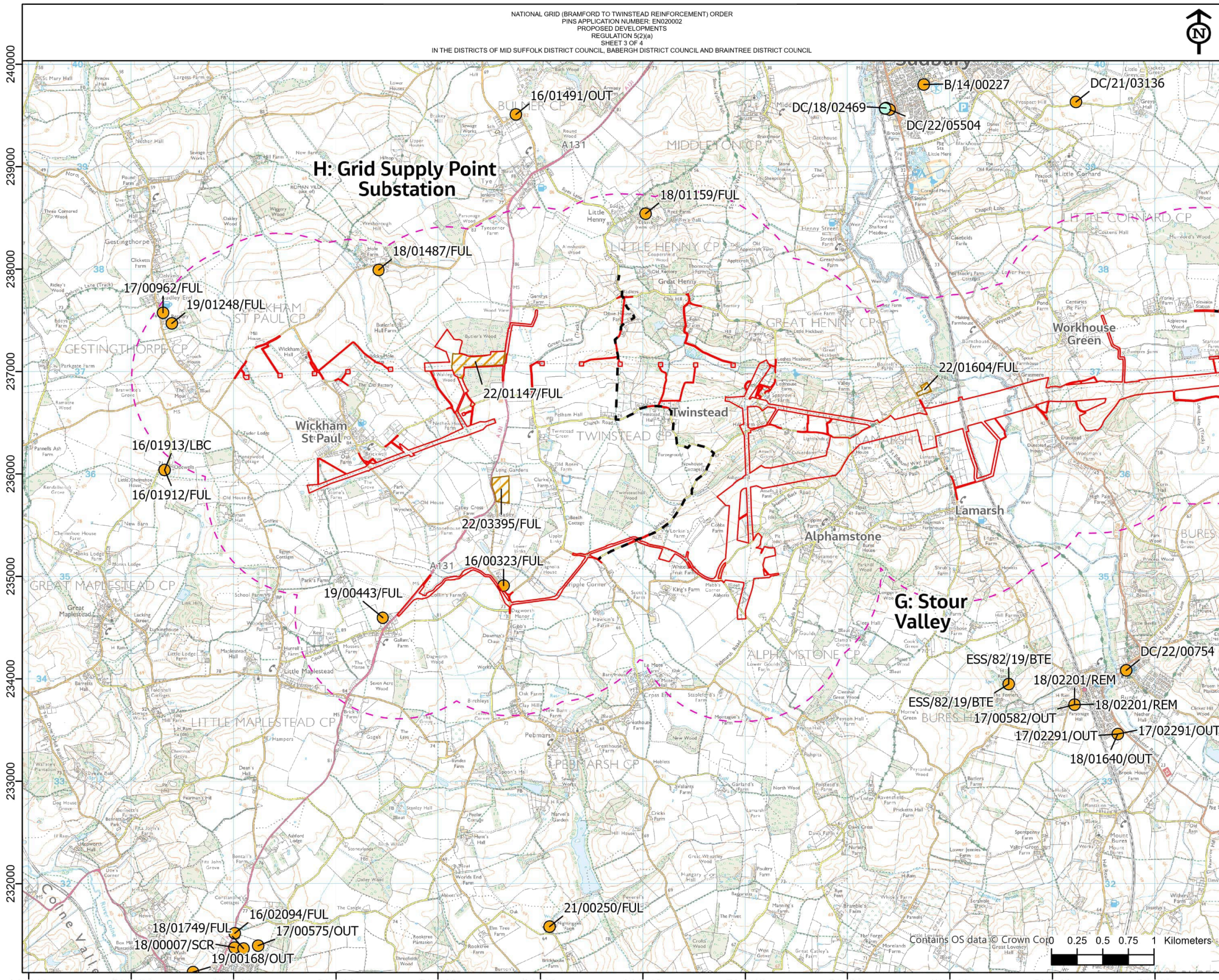
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NG DRAWING No. BT-JAC-020631-500-0074	SHEET NO. 2	NO. OF SHEETS 4
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- Legend**
- Section boundaries
  - Order Limits
  - Study area (1km)
  - Applications within 1km**
  - Planning applications - Long List (Stage 1)
  - Planning applications - Short list (taken forward to Stage 3)
  - Applications/Allocations between 1-10km**
  - Development allocations
  - Planning applications - Long list (Stage 1)
  - Planning applications - Short list (taken forward to Stage 3)

Note: The 10km study area excludes significant urban areas, including Ipswich and south of the A12 (see Chapter 15: Cumulative Effects Assessment (application document 6.2.15) for details). The other known developments (see Appendix 15.3: Long List of Other Developments (application document 6.3.15.3)) are excluded from the figure but are included within the long and short lists as appropriate.



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**nationalgrid**

TITLE: Figure 15.2  
Proposed Developments

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braitree – Bulls Lodge GIS

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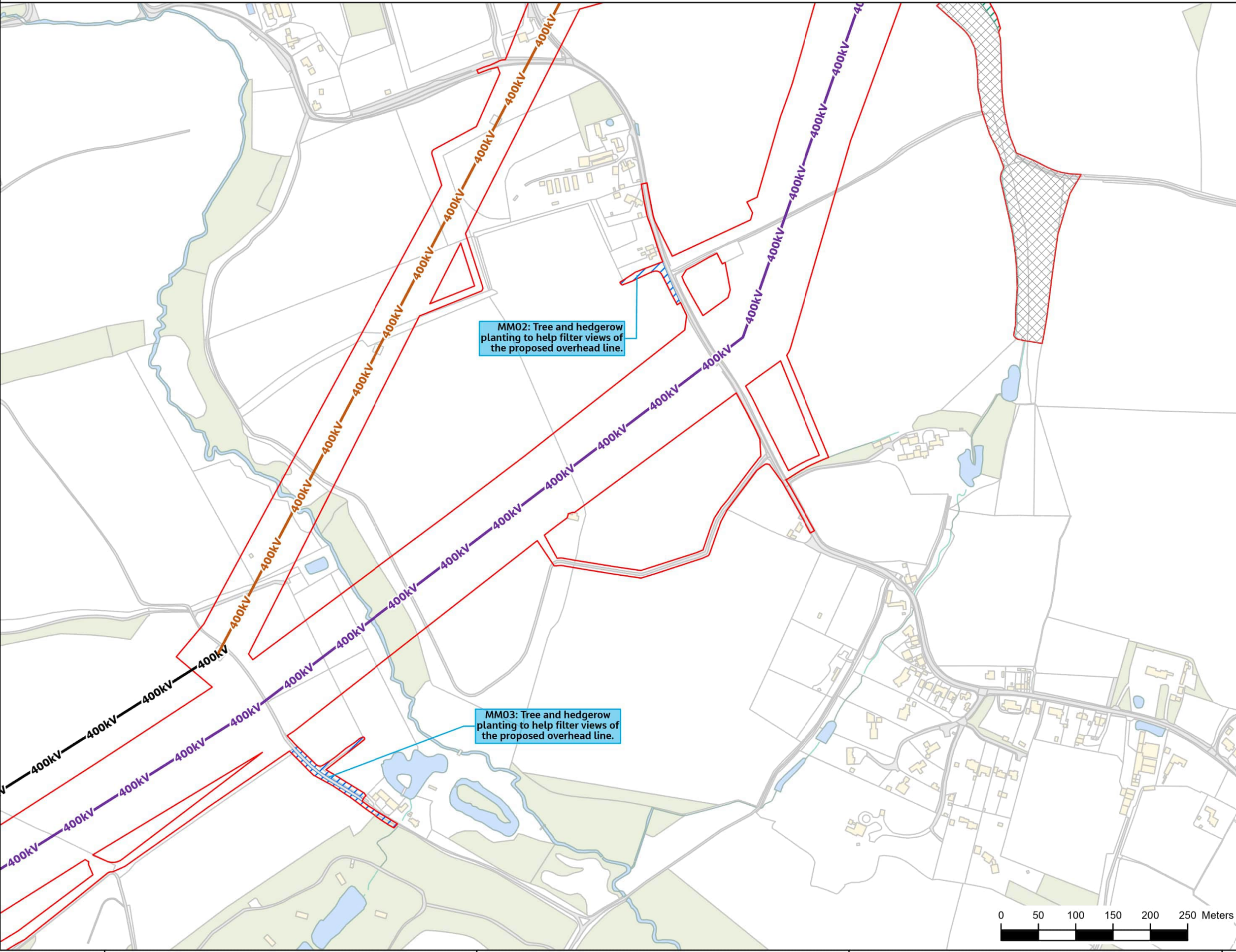


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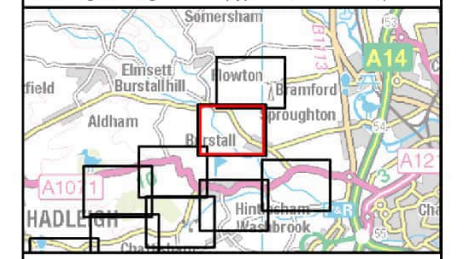
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- Section boundaries
  - Order Limits
  - Proposed Project**
  - Proposed overhead line
  - Existing overhead line
  - Proposed modification to overhead line
  - Proposed realignment of existing overhead line
  - Proposed removal of overhead line
  - Proposed underground cable
  - Cable sealing end compound
  - Proposed grid supply point substation (GSP)
  - Additional Mitigation**
  - ▨ EIA\_LV01 – Landscape mitigation
  - ▨ EIA\_LV02 – Landscape mitigation
  - ▨ EIA\_B01 – Biodiversity mitigation
  - EIA\_NV01 – Noise mitigation
  - EIA\_NV02 – Vibration mitigation
  - Other habitat creation and additional planting**
  - ▨ Embedded measures
  - ▨ Landscape softening (not mitigating a significant effect)
  - ▨ Biodiversity compensation habitat (not mitigating a significant effect)
  - ▨ Proposed environmental net gain areas
- (1) Additional mitigation has been identified through the environmental impact assessment to avoid or reduce a significant effect  
 (2) Further details on Environmental Net Gain can be found in the Environmental Gain Report (application document 7.4)  
 (3) Further details on habitat creation/planting, including habitat types and proposed species mixes can be found in the Landscape and Ecological Management Plan (application document 7.8)



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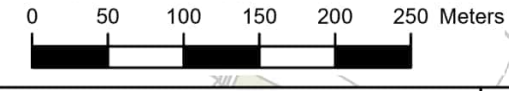


TITLE: Figure 16.1  
 Embedded Measures and Mitigation Proposals

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_16\_1\_Rev0 A3

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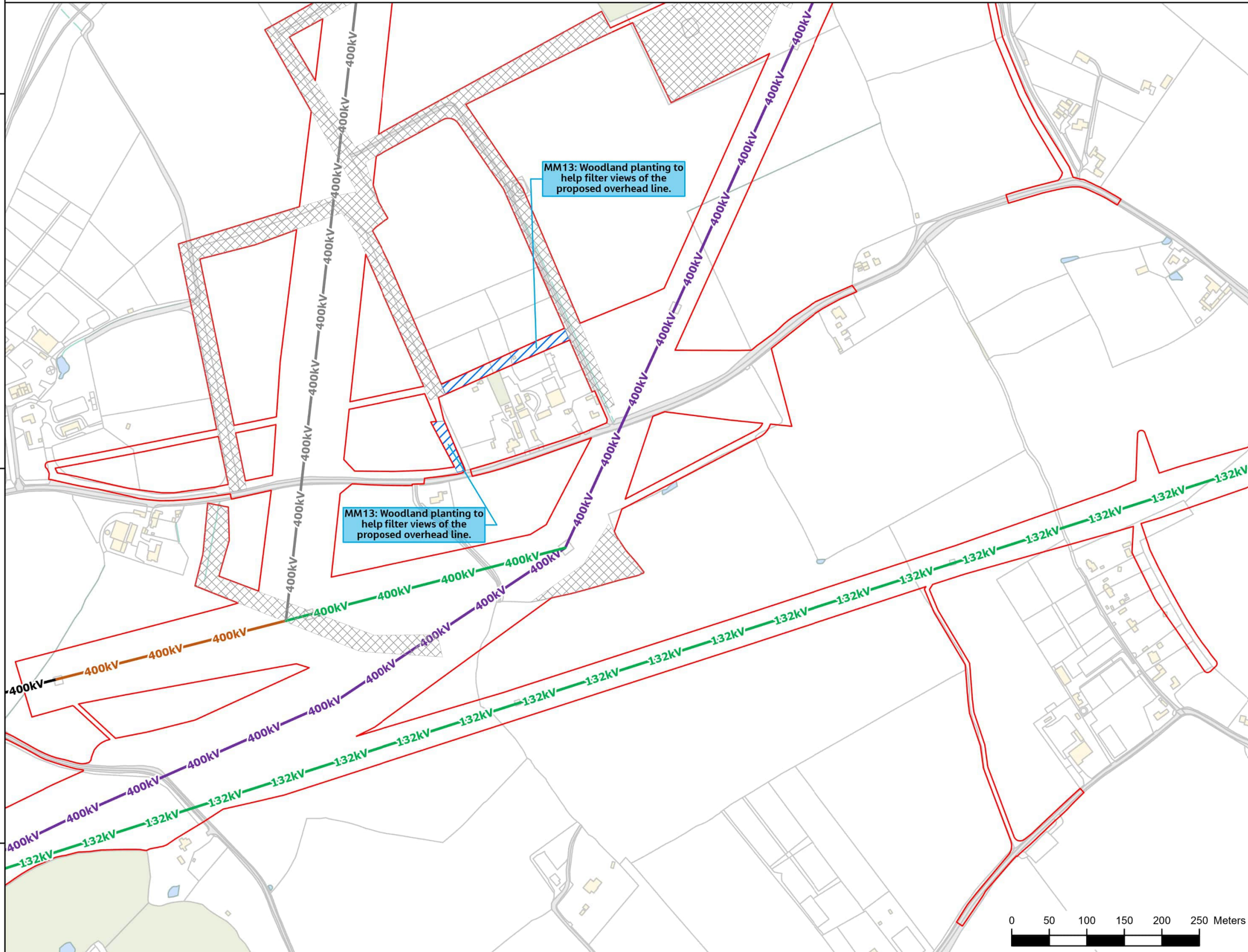


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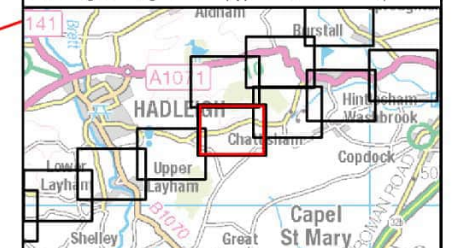
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MM13: Woodland planting to help filter views of the proposed overhead line.

MM13: Woodland planting to help filter views of the proposed overhead line.

- Section boundaries
  - Order Limits
  - Proposed Project**
  - Proposed overhead line
  - Existing overhead line
  - Proposed modification to overhead line
  - Proposed realignment of existing overhead line
  - Proposed removal of overhead line
  - Proposed underground cable
  - Cable sealing end compound
  - Proposed grid supply point substation (GSP)
  - Additional Mitigation**
  - ▨ EIA\_LV01 – Landscape mitigation
  - ▨ EIA\_LV02 – Landscape mitigation
  - ▨ EIA\_B01 – Biodiversity mitigation
  - EIA\_NV01 – Noise mitigation
  - EIA\_NV02 – Vibration mitigation
  - Other habitat creation and additional planting**
  - ▨ Embedded measures
  - ▨ Landscape softening (not mitigating a significant effect)
  - ▨ Biodiversity compensation habitat (not mitigating a significant effect)
  - ▨ Proposed environmental net gain areas
- (1) Additional mitigation has been identified through the environmental impact assessment to avoid or reduce a significant effect  
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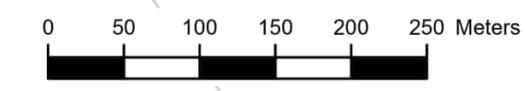


TITLE: Figure 16.1  
 Embedded Measures and Mitigation Proposals

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_16\_1\_Rev0 A3

NG DRAWING No. BT-JAC-020631-500-0108 SHEET NO. 8 NO. OF SHEETS 30 ISSUE: A  
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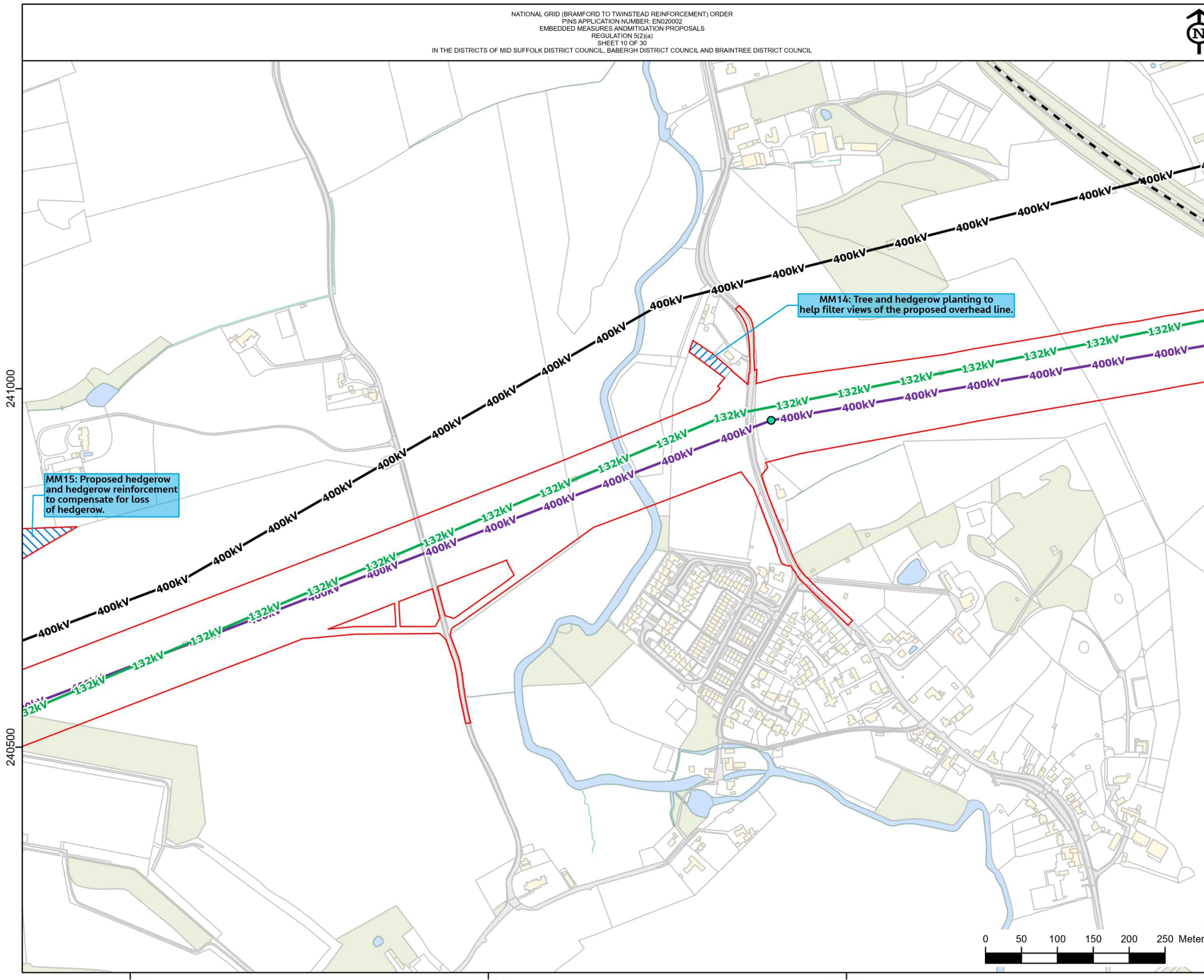




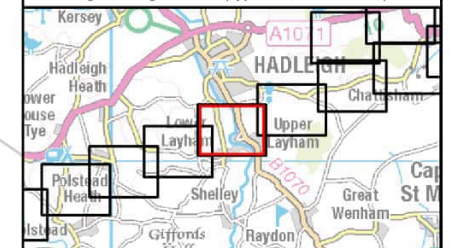




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- Section boundaries
  - Order Limits
  - Proposed Project**
  - Proposed overhead line
  - Existing overhead line
  - Proposed modification to overhead line
  - Proposed realignment of existing overhead line
  - Proposed removal of overhead line
  - Proposed underground cable
  - Cable sealing end compound
  - Proposed grid supply point substation (GSP)
  - Additional Mitigation**
  - ▨ EIA\_LV01 - Landscape mitigation
  - ▨ EIA\_LV02 - Landscape mitigation
  - ▨ EIA\_B01 - Biodiversity mitigation
  - EIA\_NV01 - Noise mitigation
  - EIA\_NV02 - Vibration mitigation
  - Other habitat creation and additional planting**
  - ▨ Embedded measures
  - ▨ Landscape softening (not mitigating a significant effect)
  - ▨ Biodiversity compensation habitat (not mitigating a significant effect)
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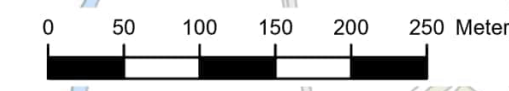


TITLE: **Figure 16.1  
 Embedded Measures and Mitigation Proposals**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** GIS

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NG DRAWING No. BT-JAC-020631-500-0108	SHEET NO. 10	NO. OF SHEETS 30	ISSUE: A
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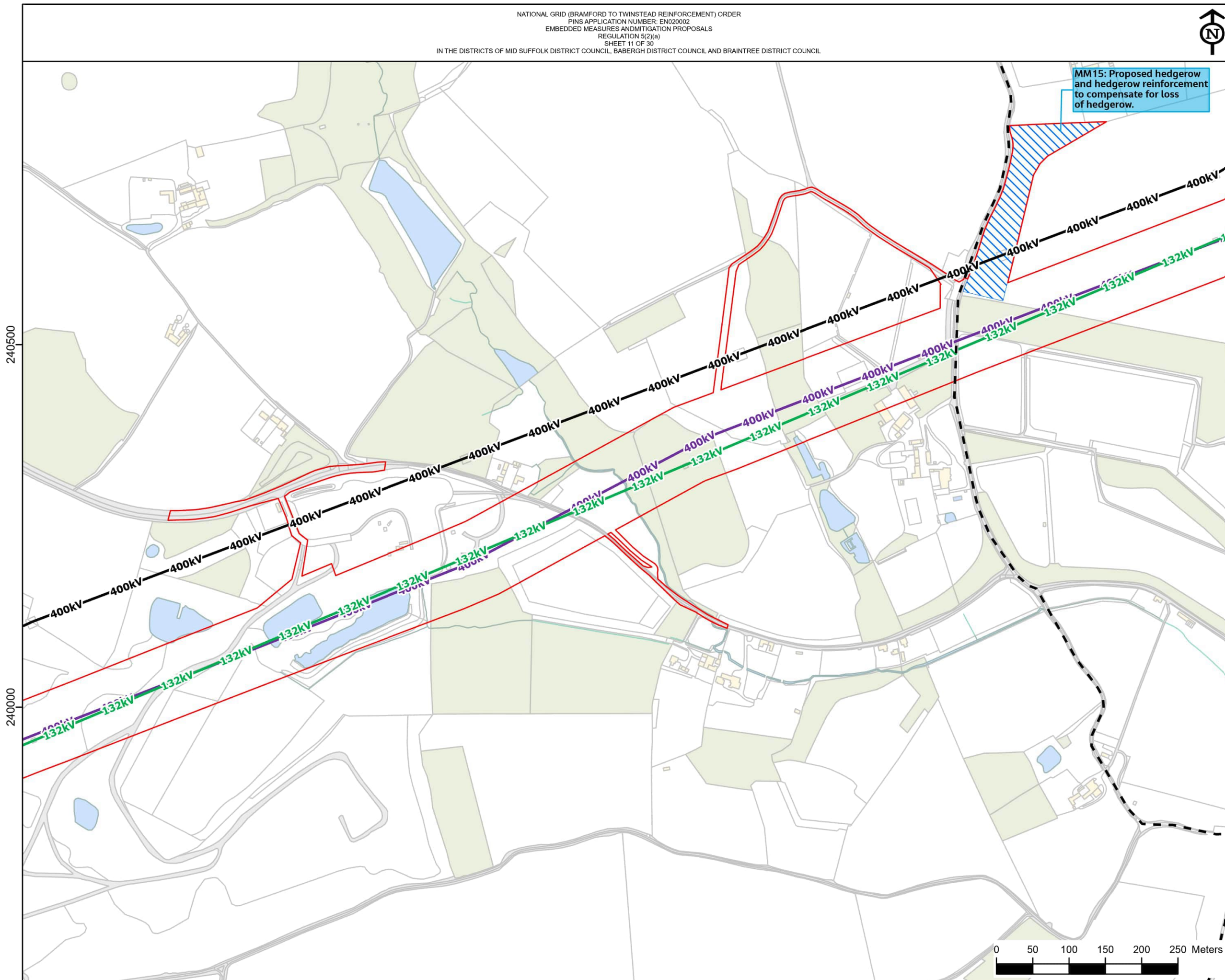
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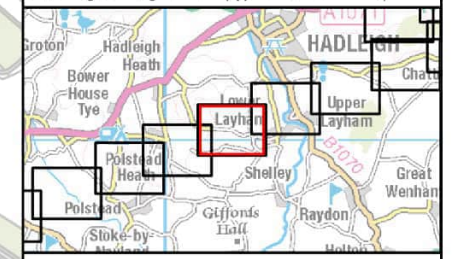




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- Section boundaries
  - Order Limits
  - Proposed Project
    - Proposed overhead line
    - Existing overhead line
    - Proposed modification to overhead line
    - Proposed realignment of existing overhead line
    - Proposed removal of overhead line
    - Proposed underground cable
    - Cable sealing end compound
    - Proposed grid supply point substation (GSP)
  - Additional Mitigation
    - EIA\_LV01 - Landscape mitigation
    - EIA\_LV02 - Landscape mitigation
    - EIA\_B01 - Biodiversity mitigation
    - EIA\_NV01 - Noise mitigation
    - EIA\_NV02 - Vibration mitigation
  - Other habitat creation and additional planting
    - Embedded measures
    - Landscape softening (not mitigating a significant effect)
    - Biodiversity compensation habitat (not mitigating a significant effect)
    - Proposed environmental net gain areas
- (1) Additional mitigation has been identified through the environmental impact assessment to avoid or reduce a significant effect  
 (2) Further details on Environmental Net Gain can be found in the Environmental Gain Report (application document 7.4)  
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TITLE: Figure 16.1  
 Embedded Measures and Mitigation Proposals

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_16\_1\_Rev0 A3

NG DRAWING No. BT-JAC-020631-500-0108	SHEET NO. 11	NO. OF SHEETS 30	ISSUE: A
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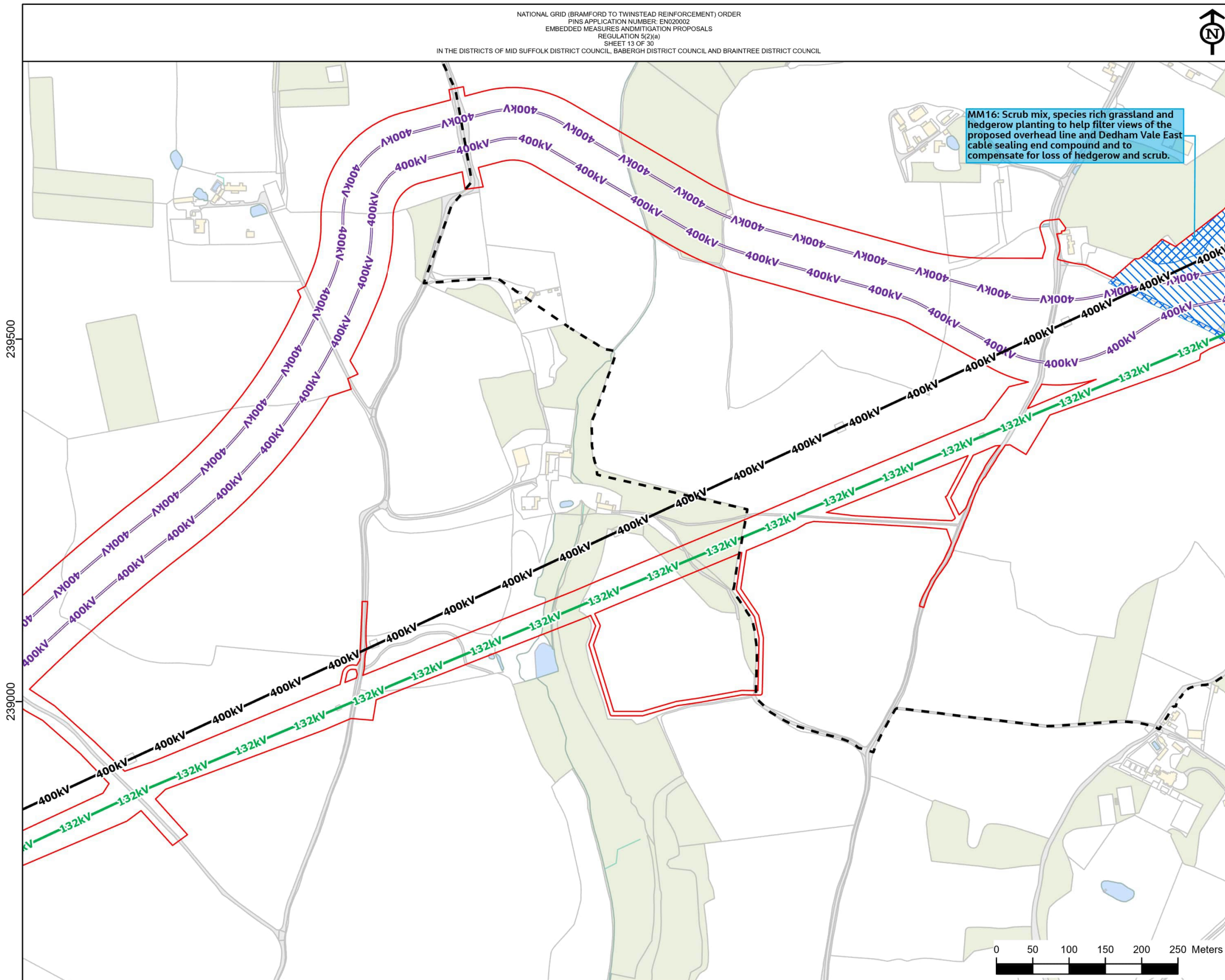






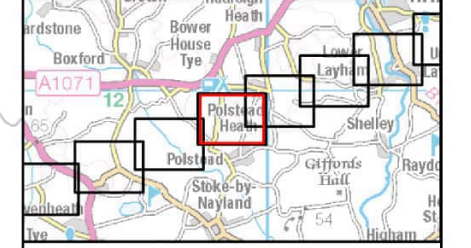


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**MM16:** Scrub mix, species rich grassland and hedgerow planting to help filter views of the proposed overhead line and Dedham Vale East cable sealing end compound and to compensate for loss of hedgerow and scrub.

- Section boundaries
  - Order Limits
  - Proposed Project**
    - Proposed overhead line
    - Existing overhead line
    - Proposed modification to overhead line
    - Proposed realignment of existing overhead line
    - Proposed removal of overhead line
    - Proposed underground cable
    - Cable sealing end compound
    - Proposed grid supply point substation (GSP)
  - Additional Mitigation**
    - EIA\_LV01 - Landscape mitigation
    - EIA\_LV02 - Landscape mitigation
    - EIA\_B01 - Biodiversity mitigation
    - EIA\_NV01 - Noise mitigation
    - EIA\_NV02 - Vibration mitigation
  - Other habitat creation and additional planting**
    - Embedded measures
    - Landscape softening (not mitigating a significant effect)
    - Biodiversity compensation habitat (not mitigating a significant effect)
    - Proposed environmental net gain areas
- (1) Additional mitigation has been identified through the environmental impact assessment to avoid or reduce a significant effect  
 (2) Further details on Environmental Net Gain can be found in the Environmental Gain Report (application document 7.4)  
 (3) Further details on habitat creation/planting, including habitat types and proposed species mixes can be found in the Landscape and Ecological Management Plan (application document 7.8)



NG Investment No. ETX/01142

A	04/2023	Rev A for DCO Application	PM	DD	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**

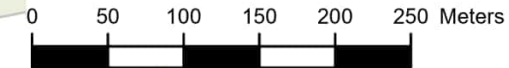


TITLE: **Figure 16.1  
 Embedded Measures and Mitigation Proposals**

CIRCUIT / SITE: **Bramford – Pelham & Bramford  
 – Braintree – Bulls Lodge** GIS

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_16\_1\_Rev0** A3

NG DRAWING No. BT-JAC-020631-500-0108	SHEET NO. <b>13</b>	NO. OF SHEETS <b>30</b>	ISSUE: <b>A</b>
SCALE: 1:5000			



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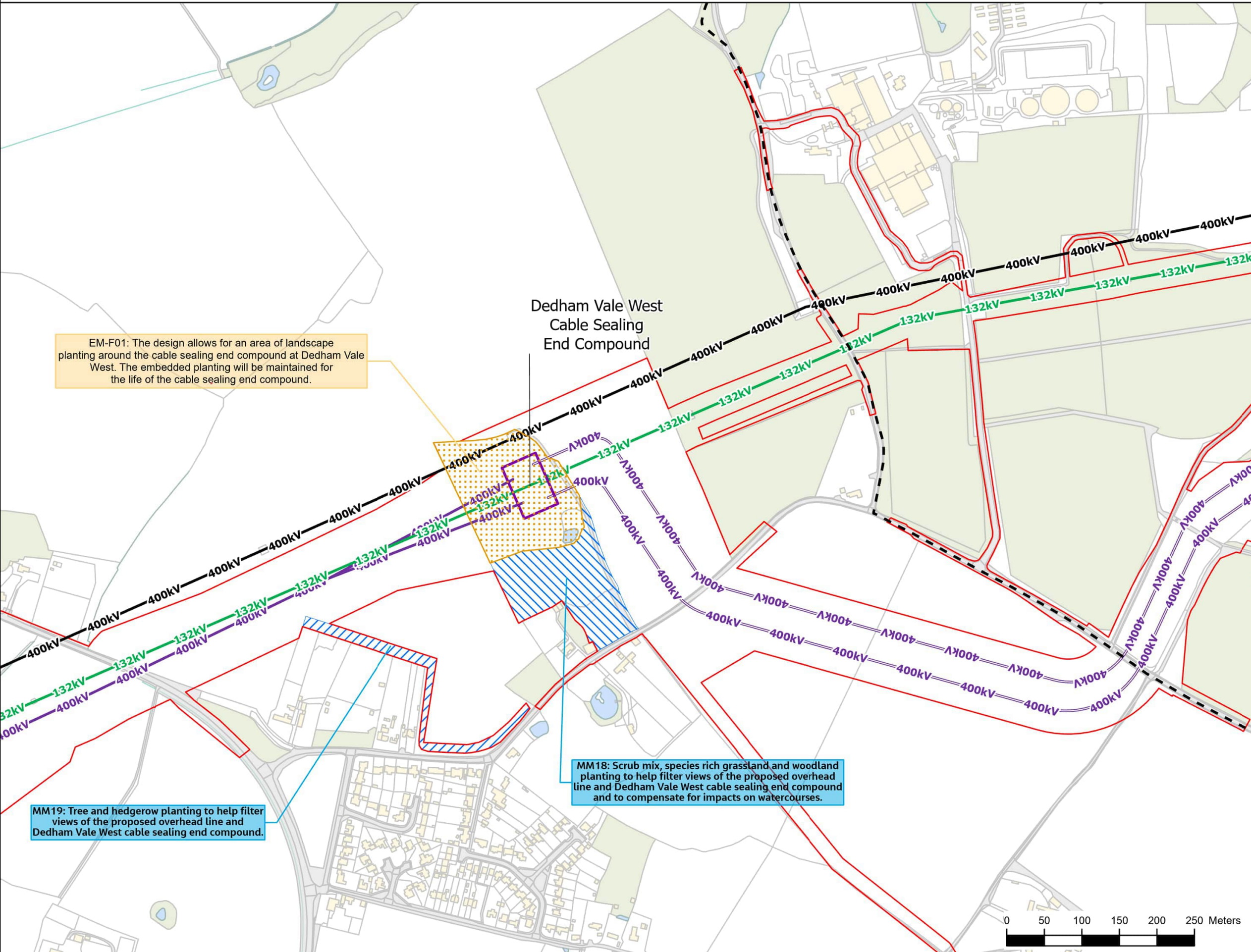






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EM-F01: The design allows for an area of landscape planting around the cable sealing end compound at Dedham Vale West. The embedded planting will be maintained for the life of the cable sealing end compound.

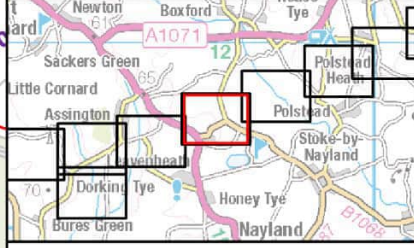
Dedham Vale West Cable Sealing End Compound

MM18: Scrub mix, species rich grassland and woodland planting to help filter views of the proposed overhead line and Dedham Vale West cable sealing end compound and to compensate for impacts on watercourses.

MM19: Tree and hedgerow planting to help filter views of the proposed overhead line and Dedham Vale West cable sealing end compound.

- Section boundaries
- Order Limits
- Proposed Project
  - Proposed overhead line
  - Existing overhead line
  - Proposed modification to overhead line
  - Proposed realignment of existing overhead line
  - Proposed removal of overhead line
  - Proposed underground cable
  - Cable sealing end compound
  - Proposed grid supply point substation (GSP)
- Additional Mitigation
  - EIA\_LV01 - Landscape mitigation
  - EIA\_LV02 - Landscape mitigation
  - EIA\_B01 - Biodiversity mitigation
  - EIA\_NV01 - Noise mitigation
  - EIA\_NV02 - Vibration mitigation
- Other habitat creation and additional planting
  - Embedded measures
  - Landscape softening (not mitigating a significant effect)
  - Biodiversity compensation habitat (not mitigating a significant effect)
  - Proposed environmental net gain areas

(1) Additional mitigation has been identified through the environmental impact assessment to avoid or reduce a significant effect  
 (2) Further details on Environmental Net Gain can be found in the Environmental Gain Report (application document 7.4)  
 (3) Further details on habitat creation/planting, including habitat types and proposed species mixes can be found in the Landscape and Ecological Management Plan (application document 7.8)



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A	04/2023	Rev A for DCO Application	PM	DD	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: Bramford to Twinstead Reinforcement

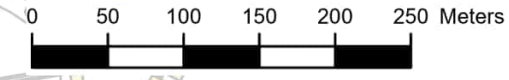
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TITLE: Figure 16.1  
 Embedded Measures and Mitigation Proposals

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_16\_1\_Rev0 A3

NG DRAWING No. BT-JAC-020631-500-0108	SHEET NO. 15	NO. OF SHEETS 30	ISSUE: A
SCALE: 1:5000			





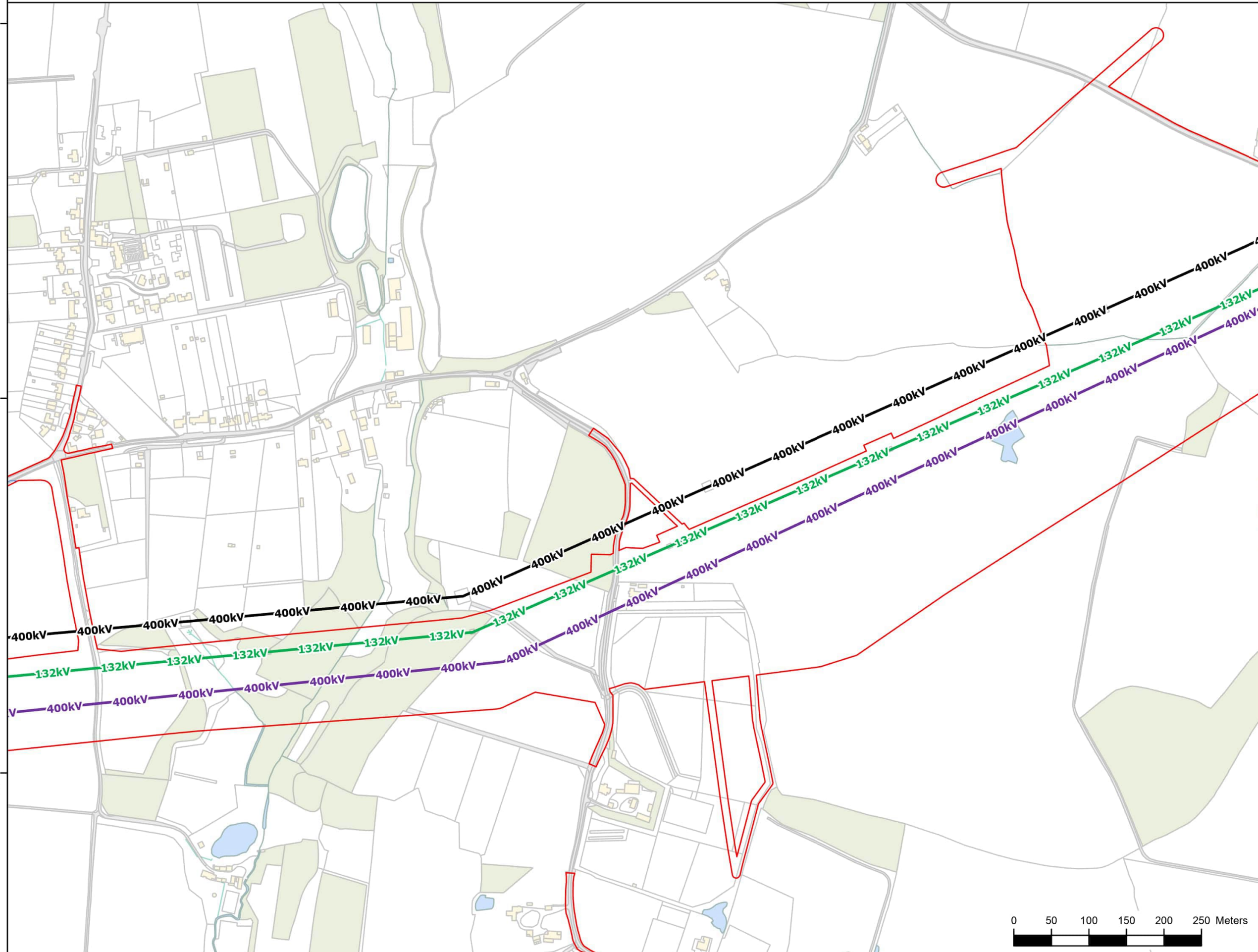


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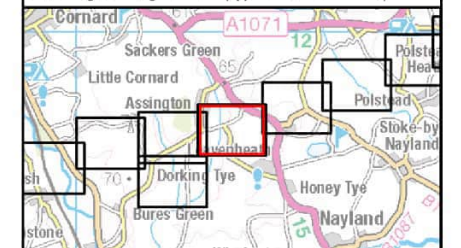
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- Section boundaries
  - Order Limits
  - Proposed Project**
  - Proposed overhead line
  - Existing overhead line
  - Proposed modification to overhead line
  - Proposed realignment of existing overhead line
  - Proposed removal of overhead line
  - Proposed underground cable
  - Cable sealing end compound
  - Proposed grid supply point substation (GSP)
  - Additional Mitigation**
  - ▨ EIA\_LV01 – Landscape mitigation
  - ▨ EIA\_LV02 – Landscape mitigation
  - ▨ EIA\_B01 – Biodiversity mitigation
  - EIA\_NV01 – Noise mitigation
  - EIA\_NV02 – Vibration mitigation
  - Other habitat creation and additional planting**
  - ▨ Embedded measures
  - ▨ Landscape softening (not mitigating a significant effect)
  - ▨ Biodiversity compensation habitat (not mitigating a significant effect)
  - ▨ Proposed environmental net gain areas
- (1) Additional mitigation has been identified through the environmental impact assessment to avoid or reduce a significant effect  
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A	04/2023	Rev A for DCO Application	PM	DD	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**

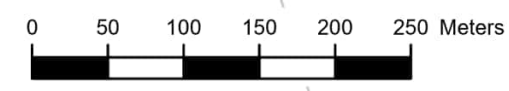


TITLE: **Figure 16.1  
 Embedded Measures and Mitigation Proposals**

CIRCUIT / SITE: **Bramford – Pelham & Bramford  
 – Braintree – Bulls Lodge** GIS

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_16\_1\_Rev0** A3

NG DRAWING No. BT-JAC-020631-500-0108	SHEET NO. <b>16</b>	NO. OF SHEETS <b>30</b>	ISSUE: <b>A</b>
SCALE: 1:5000			



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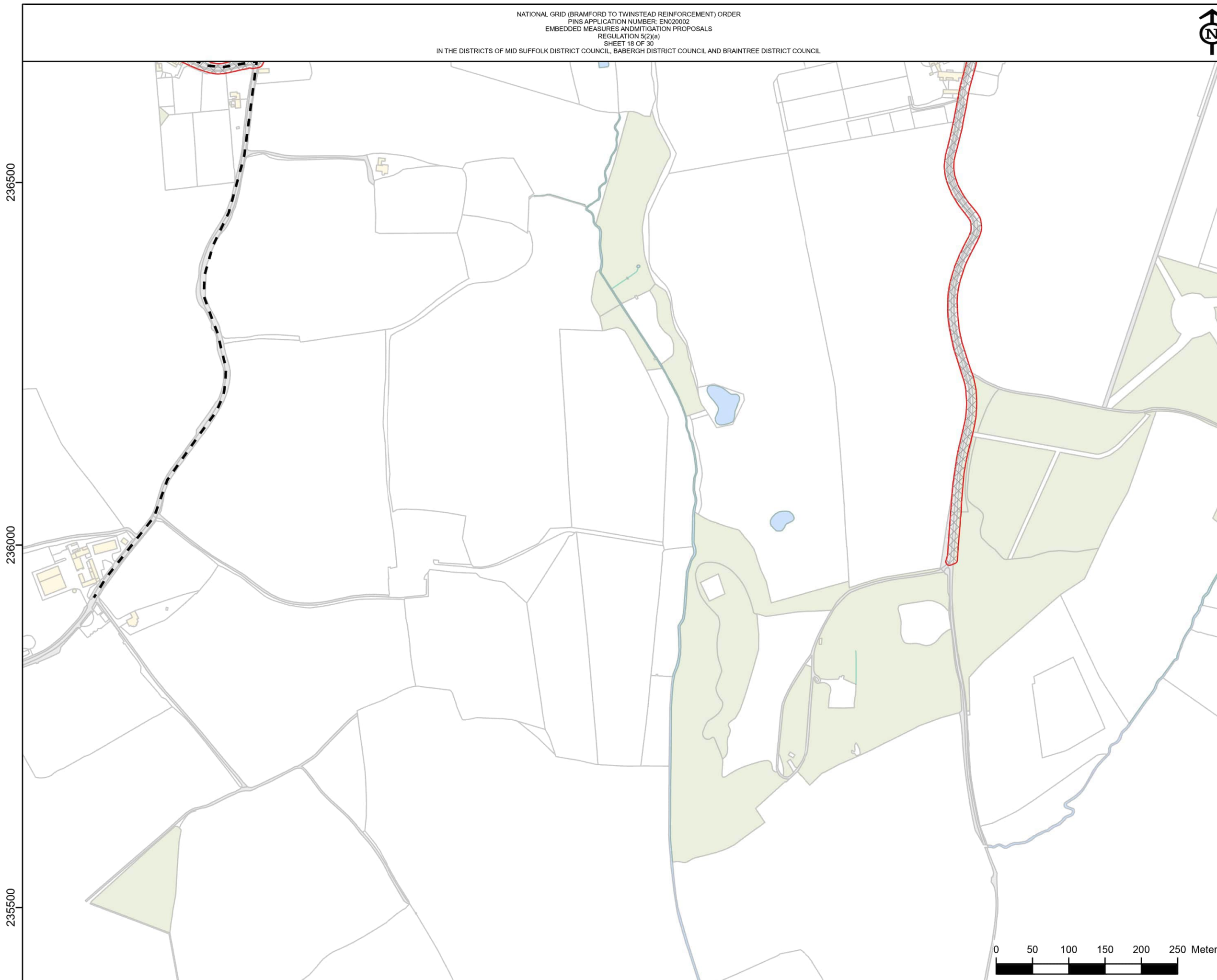




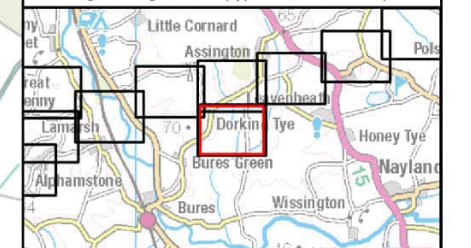




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- Section boundaries
  - Order Limits
  - Proposed Project**
  - Proposed overhead line
  - Existing overhead line
  - Proposed modification to overhead line
  - Proposed realignment of existing overhead line
  - Proposed removal of overhead line
  - Proposed underground cable
  - Cable sealing end compound
  - Proposed grid supply point substation (GSP)
  - Additional Mitigation**
  - EIA\_LV01 - Landscape mitigation
  - EIA\_LV02 - Landscape mitigation
  - EIA\_B01 - Biodiversity mitigation
  - EIA\_NV01 - Noise mitigation
  - EIA\_NV02 - Vibration mitigation
  - Other habitat creation and additional planting**
  - Embedded measures
  - Landscape softening (not mitigating a significant effect)
  - Biodiversity compensation habitat (not mitigating a significant effect)
  - Proposed environmental net gain areas
- (1) Additional mitigation has been identified through the environmental impact assessment to avoid or reduce a significant effect  
 (2) Further details on Environmental Net Gain can be found in the Environmental Gain Report ([application document 7.4](#))  
 (3) Further details on habitat creation/planting, including habitat types and proposed species mixes can be found in the Landscape and Ecological Management Plan ([application document 7.8](#))



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A	04/2023	Rev A for DCO Application	PM	DD	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**

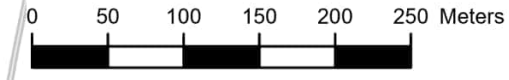


TITLE: **Figure 16.1  
 Embedded Measures and Mitigation Proposals**

CIRCUIT / SITE: **Bramford – Pelham & Bramford  
 – Braintree – Bulls Lodge** **GIS**

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_16\_1\_Rev0** **A3**

NG DRAWING No. BT-JAC-020631-500-0108	SHEET NO. <b>18</b>	NO. OF SHEETS <b>30</b>	ISSUE: <b>A</b>
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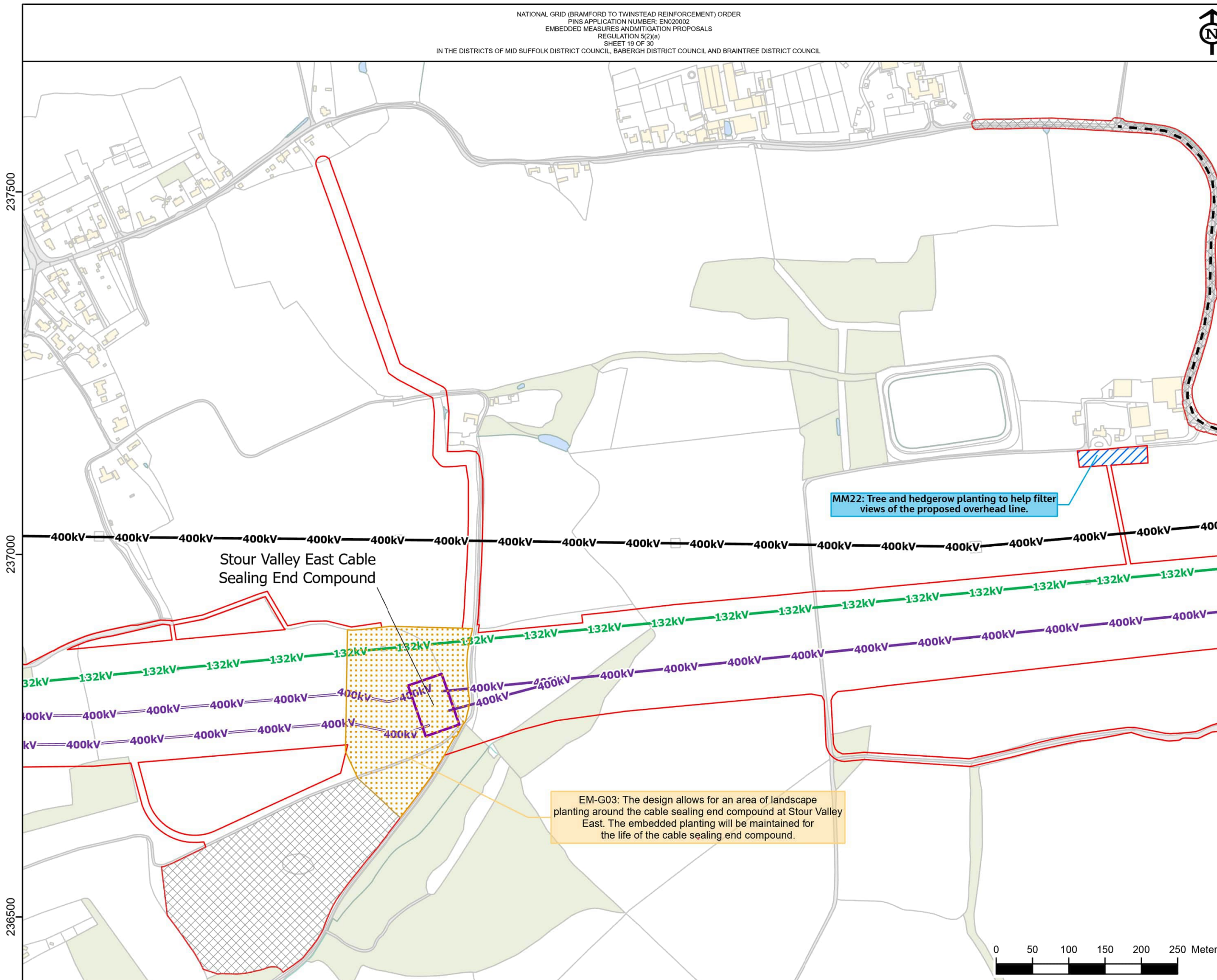
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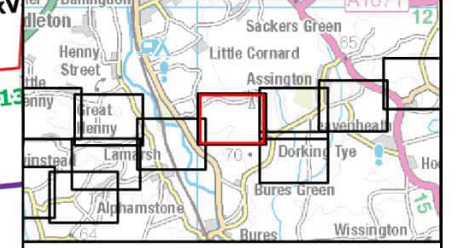


- Section boundaries
  - Order Limits
  - Proposed Project**
  - Proposed overhead line
  - Existing overhead line
  - Proposed modification to overhead line
  - Proposed realignment of existing overhead line
  - Proposed removal of overhead line
  - Proposed underground cable
  - Cable sealing end compound
  - Proposed grid supply point substation (GSP)
  - Additional Mitigation**
  - ▨ EIA\_LV01 – Landscape mitigation
  - ▨ EIA\_LV02 – Landscape mitigation
  - ▨ EIA\_B01 – Biodiversity mitigation
  - EIA\_NV01 – Noise mitigation
  - EIA\_NV02 – Vibration mitigation
  - Other habitat creation and additional planting**
  - ▨ Embedded measures
  - ▨ Landscape softening (not mitigating a significant effect)
  - ▨ Biodiversity compensation habitat (not mitigating a significant effect)
  - ▨ Proposed environmental net gain areas
- (1) Additional mitigation has been identified through the environmental impact assessment to avoid or reduce a significant effect  
 (2) Further details on Environmental Net Gain can be found in the Environmental Gain Report (application document 7.4)  
 (3) Further details on habitat creation/planting, including habitat types and proposed species mixes can be found in the Landscape and Ecological Management Plan (application document 7.8)

MM22: Tree and hedgerow planting to help filter views of the proposed overhead line.

Stour Valley East Cable Sealing End Compound

EM-G03: The design allows for an area of landscape planting around the cable sealing end compound at Stour Valley East. The embedded planting will be maintained for the life of the cable sealing end compound.



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TITLE: Figure 16.1  
 Embedded Measures and Mitigation Proposals

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_16\_1\_Rev0 A3

NG DRAWING No. BT-JAC-020631-500-0108 SHEET NO. 19 NO. OF SHEETS 30 ISSUE: A









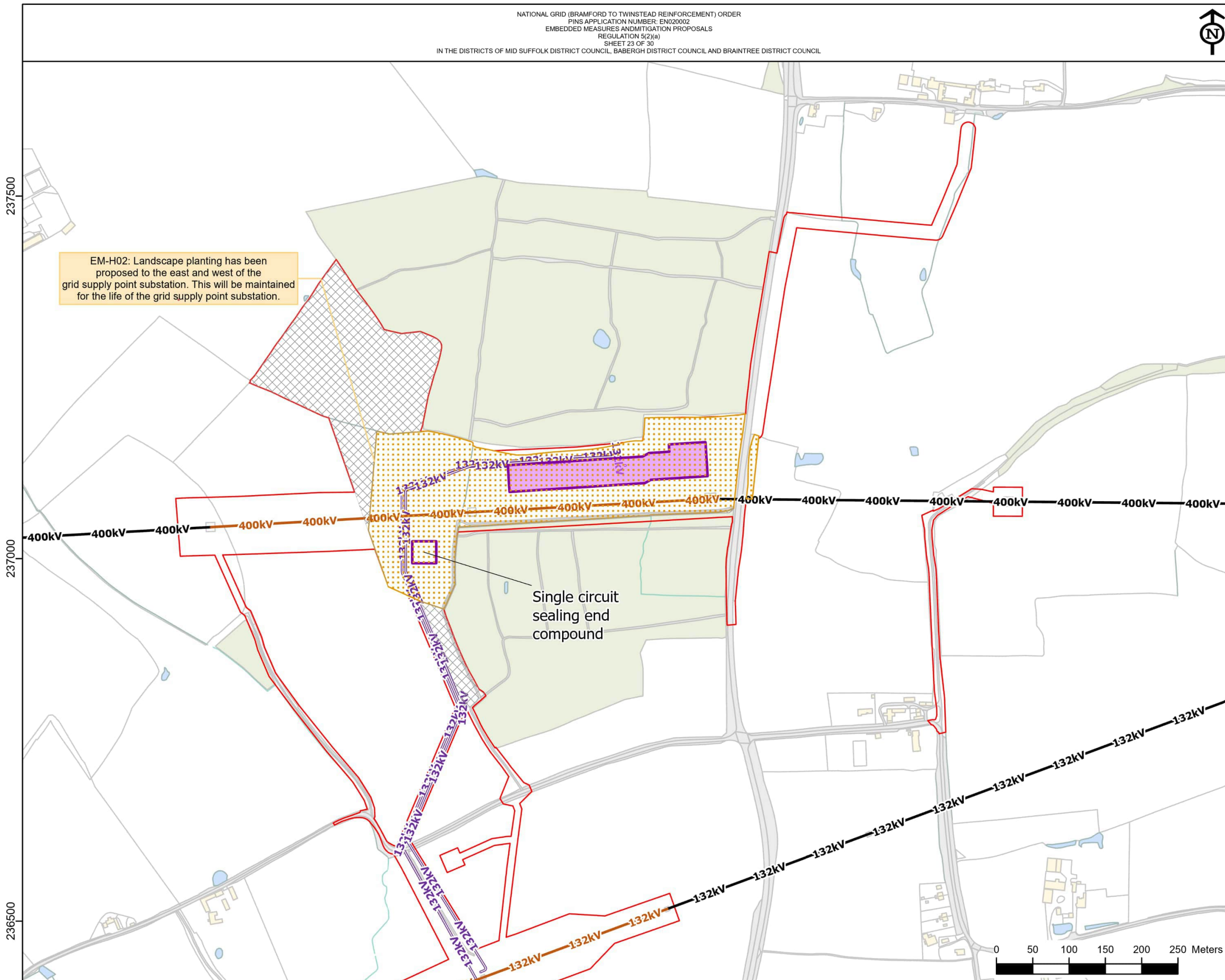








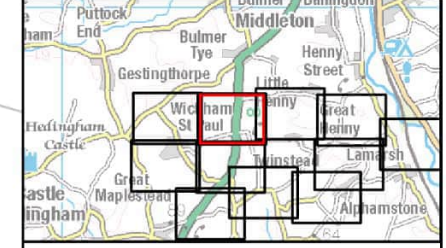
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EM-H02: Landscape planting has been proposed to the east and west of the grid supply point substation. This will be maintained for the life of the grid supply point substation.

Single circuit sealing end compound

- Section boundaries
  - Order Limits
  - Proposed Project**
    - Proposed overhead line
    - Existing overhead line
    - Proposed modification to overhead line
    - Proposed realignment of existing overhead line
    - Proposed removal of overhead line
    - Proposed underground cable
    - Cable sealing end compound
    - Proposed grid supply point substation (GSP)
  - Additional Mitigation**
    - EIA\_LV01 - Landscape mitigation
    - EIA\_LV02 - Landscape mitigation
    - EIA\_B01 - Biodiversity mitigation
    - EIA\_NV01 - Noise mitigation
    - EIA\_NV02 - Vibration mitigation
  - Other habitat creation and additional planting**
    - Embedded measures
    - Landscape softening (not mitigating a significant effect)
    - Biodiversity compensation habitat (not mitigating a significant effect)
    - Proposed environmental net gain areas
- (1) Additional mitigation has been identified through the environmental impact assessment to avoid or reduce a significant effect  
 (2) Further details on Environmental Net Gain can be found in the Environmental Gain Report (application document 7.4)  
 (3) Further details on habitat creation/planting, including habitat types and proposed species mixes can be found in the Landscape and Ecological Management Plan (application document 7.8)



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A	04/2023	Rev A for DCO Application	PM	DD	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: Bramford to Twinstead Reinforcement

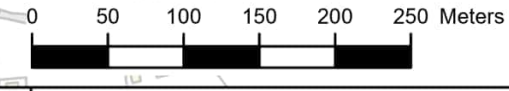


TITLE: Figure 16.1  
 Embedded Measures and Mitigation Proposals

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_16\_1\_Rev0

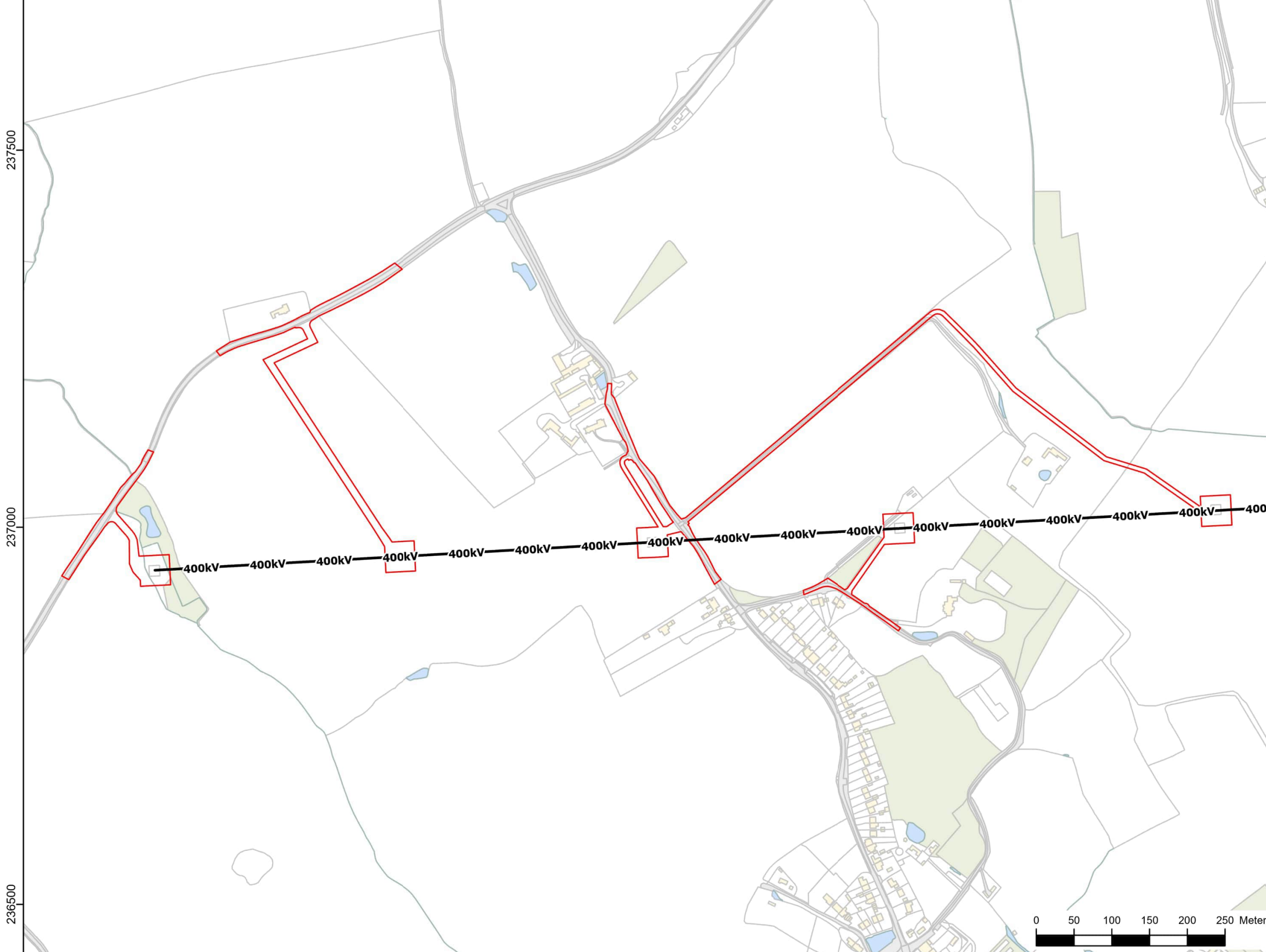
NG DRAWING No. BT-JAC-020631-500-0108	SHEET NO. 23	NO. OF SHEETS 30	ISSUE: A
SCALE: 1:5000			



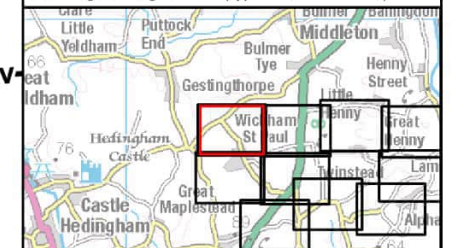




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- Section boundaries
  - Order Limits
  - Proposed Project**
  - Proposed overhead line
  - Existing overhead line
  - Proposed modification to overhead line
  - Proposed realignment of existing overhead line
  - Proposed removal of overhead line
  - Proposed underground cable
  - Cable sealing end compound
  - Proposed grid supply point substation (GSP)
  - Additional Mitigation**
  - ▨ EIA\_LV01 – Landscape mitigation
  - ▨ EIA\_LV02 – Landscape mitigation
  - ▨ EIA\_B01 – Biodiversity mitigation
  - EIA\_NV01 – Noise mitigation
  - EIA\_NV02 – Vibration mitigation
  - Other habitat creation and additional planting**
  - ▨ Embedded measures
  - ▨ Landscape softening (not mitigating a significant effect)
  - ▨ Biodiversity compensation habitat (not mitigating a significant effect)
  - ▨ Proposed environmental net gain areas
- (1) Additional mitigation has been identified through the environmental impact assessment to avoid or reduce a significant effect  
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 (3) Further details on habitat creation/planting, including habitat types and proposed species mixes can be found in the Landscape and Ecological Management Plan (application document 7.8)



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A	04/2023	Rev A for DCO Application	PM	DD	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**

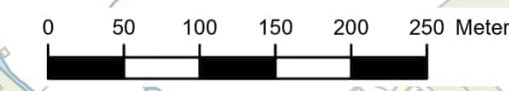


TITLE: **Figure 16.1  
 Embedded Measures and Mitigation Proposals**

CIRCUIT / SITE: **Bramford – Pelham & Bramford  
 – Braintree – Bulls Lodge** GIS

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_16\_1\_Rev0** A3

NG DRAWING No. **BT-JAC-020631-500-0108** SHEET NO. **24** NO. OF SHEETS **30** ISSUE: **A**  
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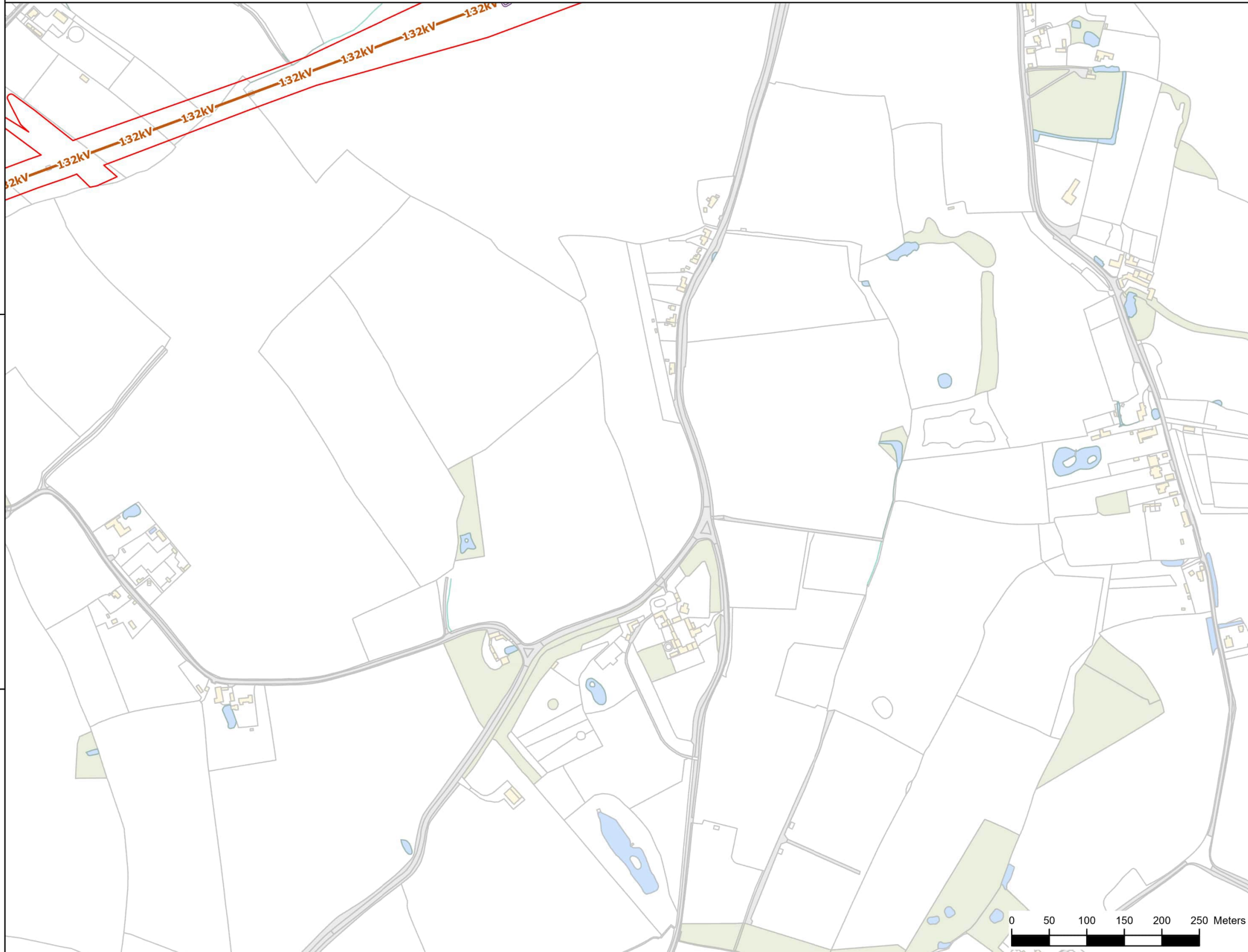
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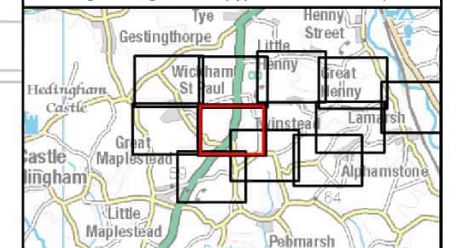




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- Section boundaries
  - Order Limits
  - Proposed Project**
  - Proposed overhead line
  - Existing overhead line
  - Proposed modification to overhead line
  - Proposed realignment of existing overhead line
  - Proposed removal of overhead line
  - Proposed underground cable
  - Cable sealing end compound
  - Proposed grid supply point substation (GSP)
  - Additional Mitigation**
  - ▨ EIA\_LV01 – Landscape mitigation
  - ▨ EIA\_LV02 – Landscape mitigation
  - ▨ EIA\_B01 – Biodiversity mitigation
  - EIA\_NV01 – Noise mitigation
  - EIA\_NV02 – Vibration mitigation
  - Other habitat creation and additional planting**
  - ▨ Embedded measures
  - ▨ Landscape softening (not mitigating a significant effect)
  - ▨ Biodiversity compensation habitat (not mitigating a significant effect)
  - ▨ Proposed environmental net gain areas
- (1) Additional mitigation has been identified through the environmental impact assessment to avoid or reduce a significant effect  
 (2) Further details on Environmental Net Gain can be found in the Environmental Gain Report ([application document 7.4](#))  
 (3) Further details on habitat creation/planting, including habitat types and proposed species mixes can be found in the Landscape and Ecological Management Plan ([application document 7.8](#))



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A	04/2023	Rev A for DCO Application	PM	DD	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**

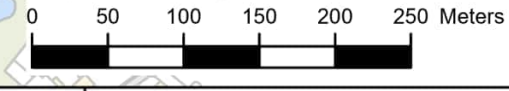


TITLE: **Figure 16.1  
 Embedded Measures and Mitigation Proposals**

CIRCUIT / SITE: **Bramford – Pelham & Bramford  
 – Braintree – Bulls Lodge** **GIS**

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_16\_1\_Rev0** **A3**

NG DRAWING No. BT-JAC-020631-500-0108	SHEET NO. <b>25</b>	NO. OF SHEETS <b>30</b>	ISSUE: <b>A</b>
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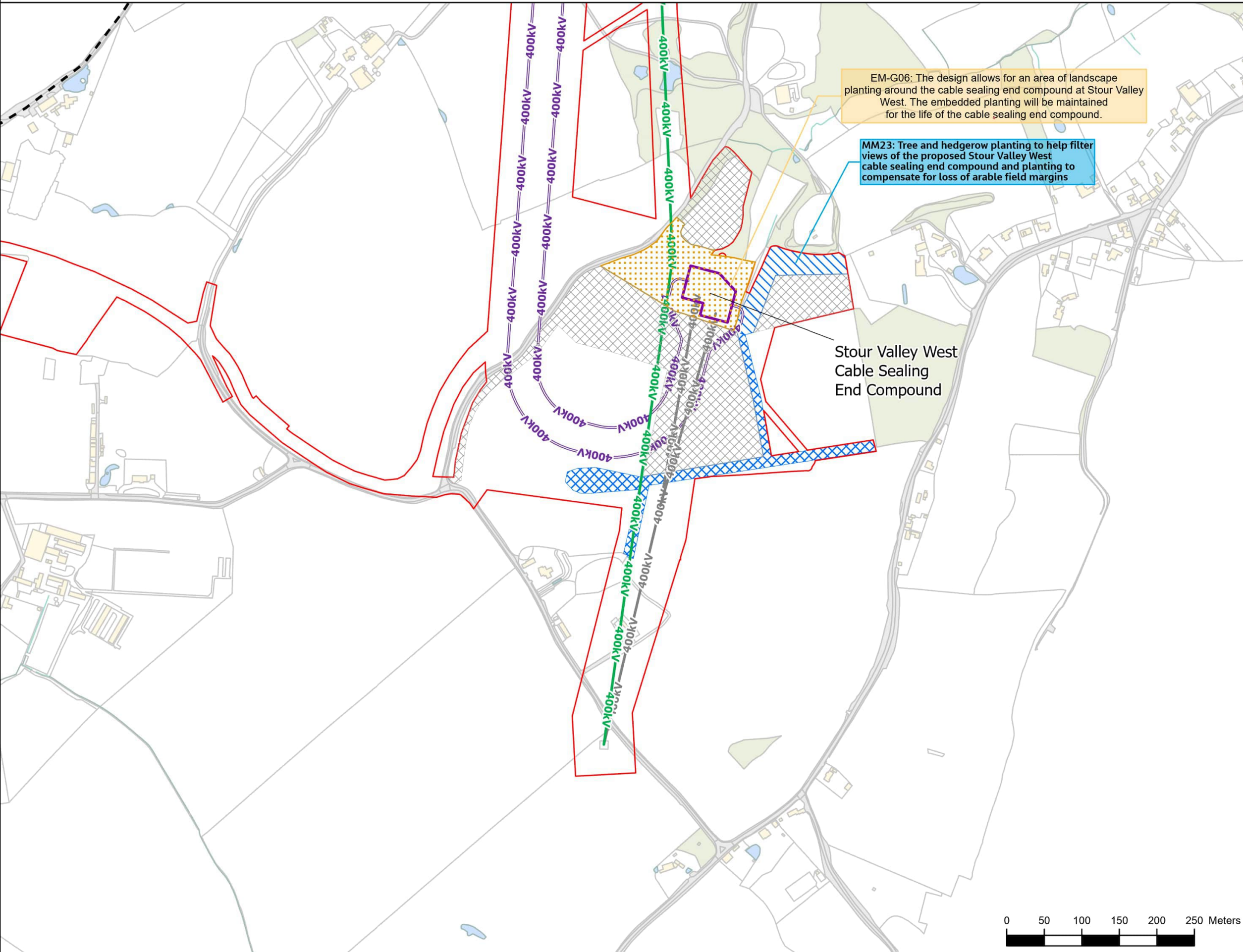






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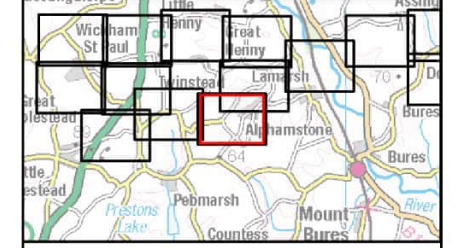


EM-G06: The design allows for an area of landscape planting around the cable sealing end compound at Stour Valley West. The embedded planting will be maintained for the life of the cable sealing end compound.

MM23: Tree and hedgerow planting to help filter views of the proposed Stour Valley West cable sealing end compound and planting to compensate for loss of arable field margins

Stour Valley West Cable Sealing End Compound

- Section boundaries
  - Order Limits
  - Proposed Project
    - Proposed overhead line
    - Existing overhead line
    - Proposed modification to overhead line
    - Proposed realignment of existing overhead line
    - Proposed removal of overhead line
    - Proposed underground cable
    - Cable sealing end compound
    - Proposed grid supply point substation (GSP)
  - Additional Mitigation
    - EIA\_LV01 - Landscape mitigation
    - EIA\_LV02 - Landscape mitigation
    - EIA\_B01 - Biodiversity mitigation
    - EIA\_NV01 - Noise mitigation
    - EIA\_NV02 - Vibration mitigation
  - Other habitat creation and additional planting
    - Embedded measures
    - Landscape softening (not mitigating a significant effect)
    - Biodiversity compensation habitat (not mitigating a significant effect)
    - Proposed environmental net gain areas
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 (3) Further details on habitat creation/planting, including habitat types and proposed species mixes can be found in the Landscape and Ecological Management Plan (application document 7.8)



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ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: Bramford to Twinstead Reinforcement

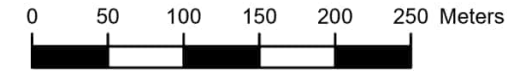


TITLE: Figure 16.1  
 Embedded Measures and Mitigation Proposals

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_16\_1\_Rev0 A3

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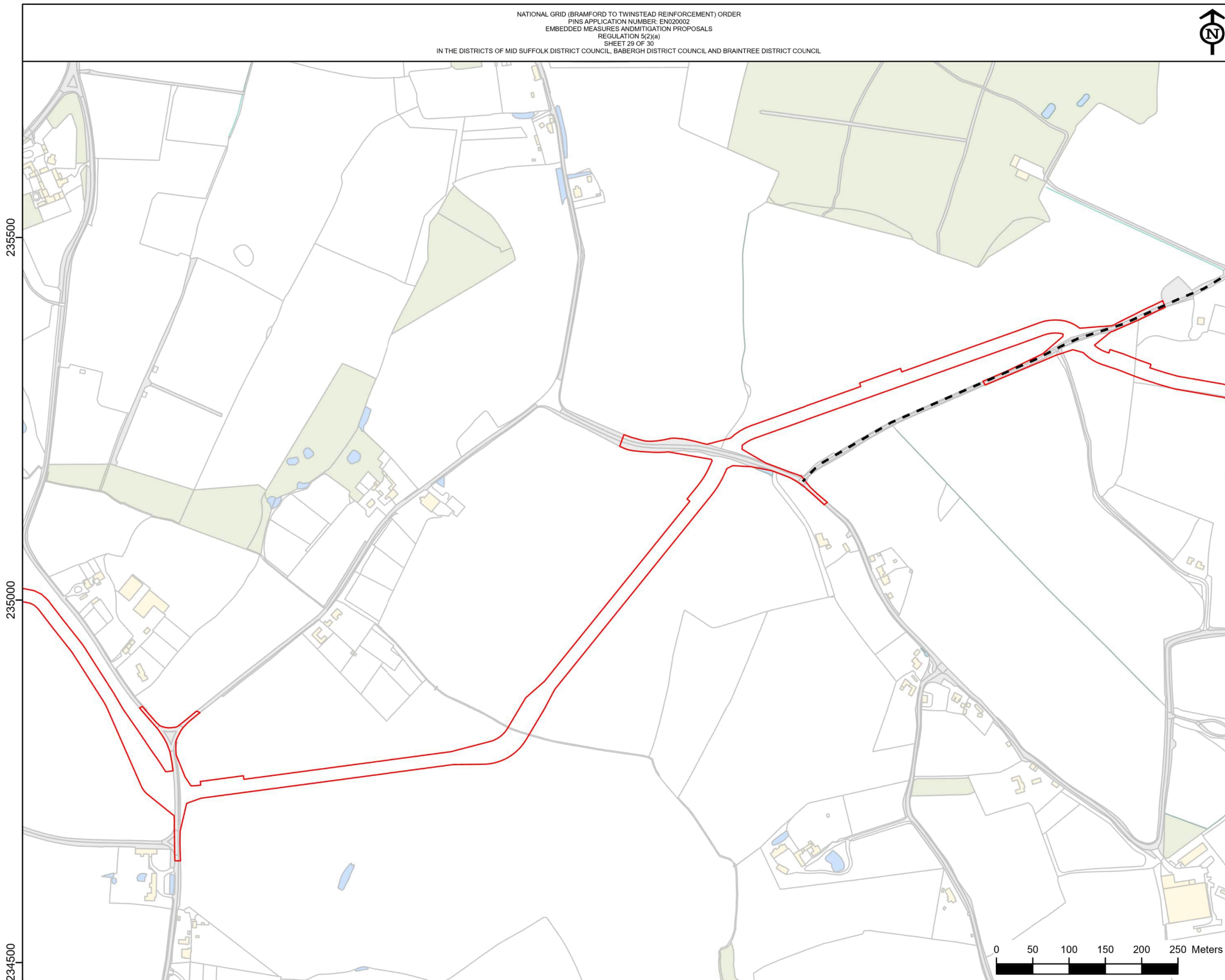
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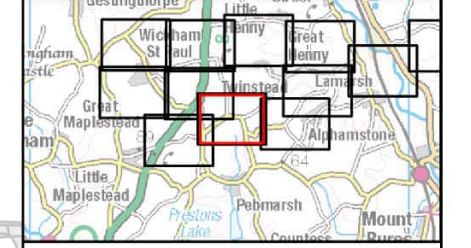


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- Section boundaries
- Order Limits
- Proposed Project**
- Proposed overhead line
- Existing overhead line
- Proposed modification to overhead line
- Proposed realignment of existing overhead line
- Proposed removal of overhead line
- Proposed underground cable
- Cable sealing end compound
- Proposed grid supply point substation (GSP)
- Additional Mitigation**
- ▨ EIA\_LV01 – Landscape mitigation
- ▨ EIA\_LV02 – Landscape mitigation
- ▨ EIA\_B01 – Biodiversity mitigation
- EIA\_NV01 – Noise mitigation
- EIA\_NV02 – Vibration mitigation
- Other habitat creation and additional planting**
- ▨ Embedded measures
- ▨ Landscape softening (not mitigating a significant effect)
- ▨ Biodiversity compensation habitat (not mitigating a significant effect)
- ▨ Proposed environmental net gain areas

(1) Additional mitigation has been identified through the environmental impact assessment to avoid or reduce a significant effect  
 (2) Further details on Environmental Net Gain can be found in the Environmental Gain Report (application document 7.4)  
 (3) Further details on habitat creation/planting, including habitat types and proposed species mixes can be found in the Landscape and Ecological Management Plan (application document 7.8)



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ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**



TITLE: **Figure 16.1 Embedded Measures and Mitigation Proposals**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** GIS

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_16\_1\_Rev0** A3

NG DRAWING No. BT-JAC-020631-500-0108	SHEET NO. <b>29</b>	NO. OF SHEETS <b>30</b>	ISSUE: <b>A</b>
SCALE: 1:5000			



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