

The Great Grid Upgrade

Grimsby to Walpole

Preliminary Environmental Information Report

Volume 2 Part B Section Specific Assessments

Section 2 New Grimsby West Substation to New Lincolnshire
Connection Substation A

Chapter 10 Noise and Vibration

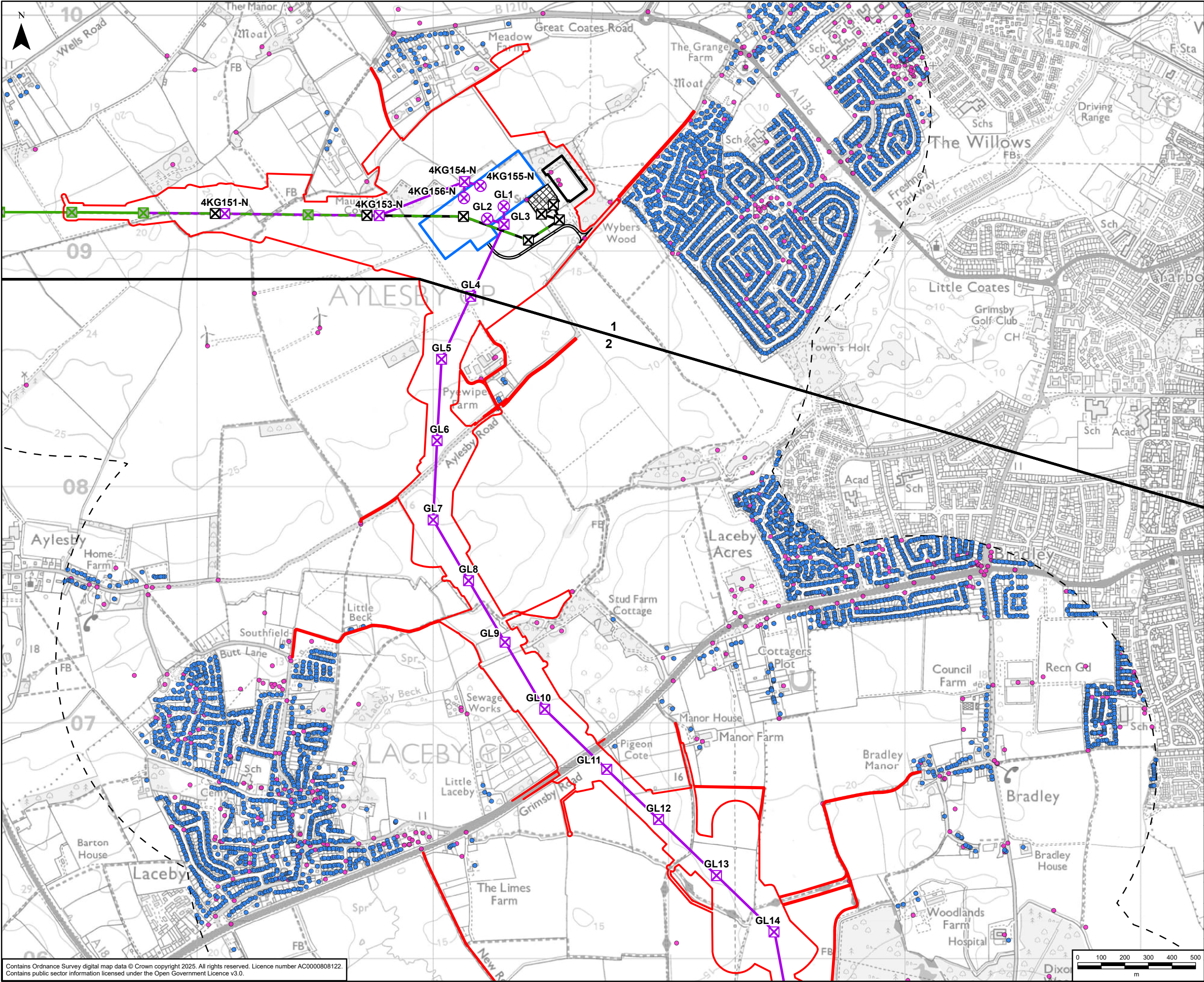
Figures

June 2025



Volume 2 Part B Section 2 Chapter 10 – Figure List

Figure number	Figure title
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Figure 10.2	Noise and Vibration Baseline
Figure 10.3	Initial Construction Noise Assessment Outputs
Figure 10.4	Initial Construction Vibration Assessment Outputs



GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- 1km Study Area
- Indicative New Lattice Pylon
- Indicative New Gantry
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To Be Dismantled
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Existing Overhead Line - To Be Dismantled
- Existing Overhead Line - To Be Modified
- Existing Substation Boundary
- Existing Substation to be Demolished
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route

Address Data

- Residential
- Non-Residential

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nationalgrid

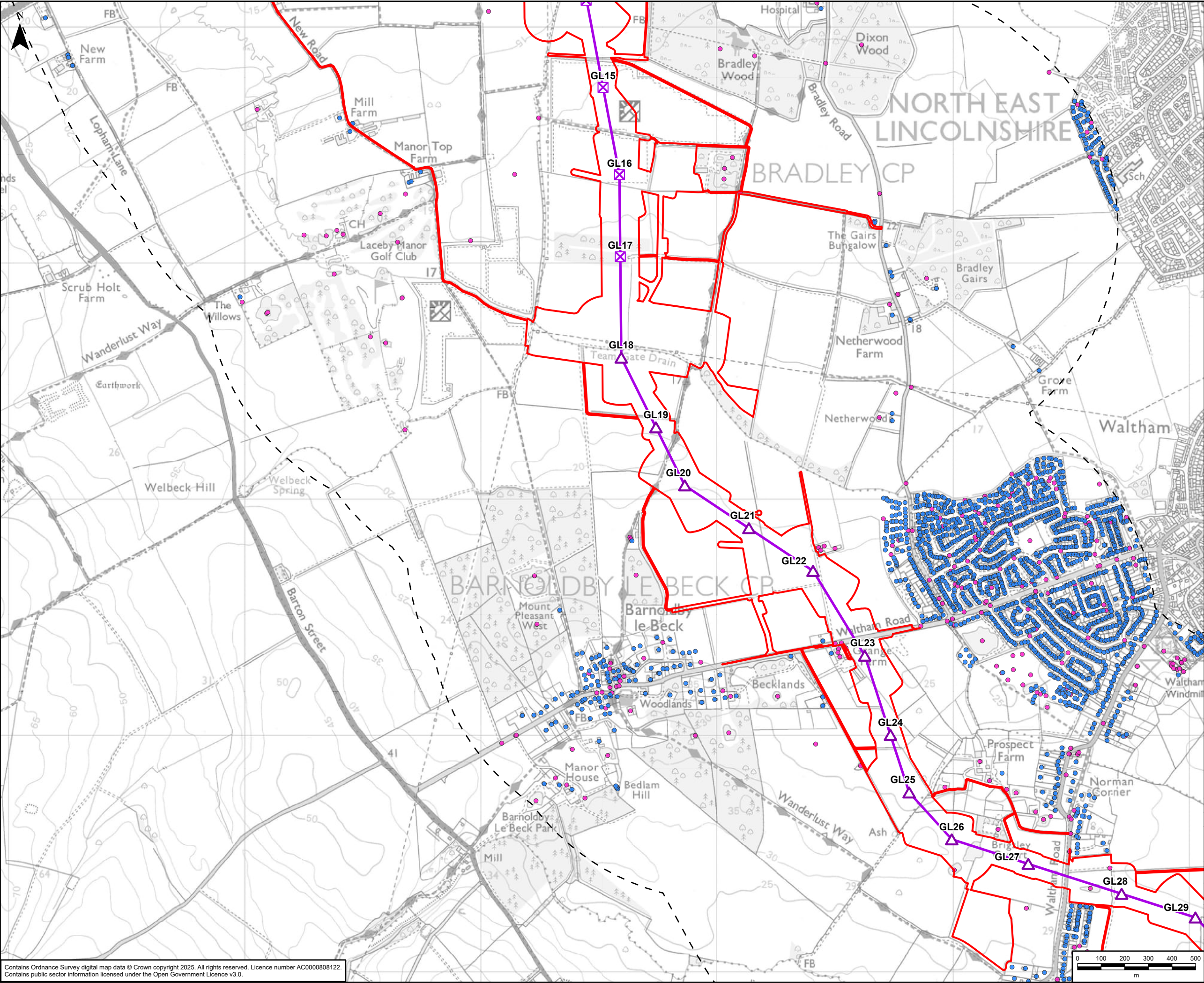
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GRIMSBY TO WALPOLE LEGEND

Legend

Draft Order Limits

1km Study Area

Indicative New Lattice Pylon

Indicative New Low Height Lattice Pylon

Indicative New Overhead Line

Address Data

Residential

Non-Residential

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Scheme:

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Document Title:

FIGURE 10.1
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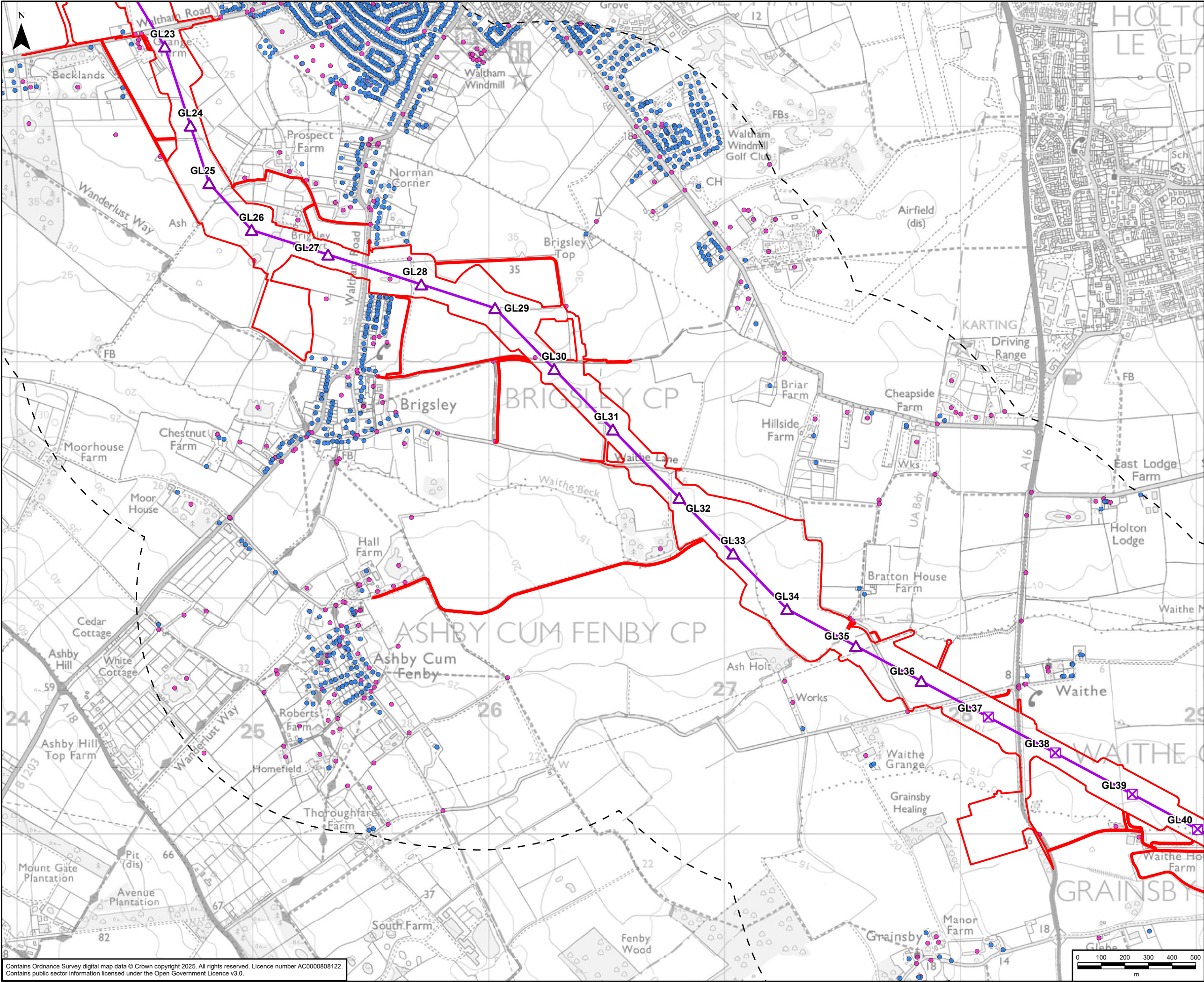
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 1km Study Area
- Indicative New Lattice Pylon
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line

Address Data

- Residential
- Non-Residential

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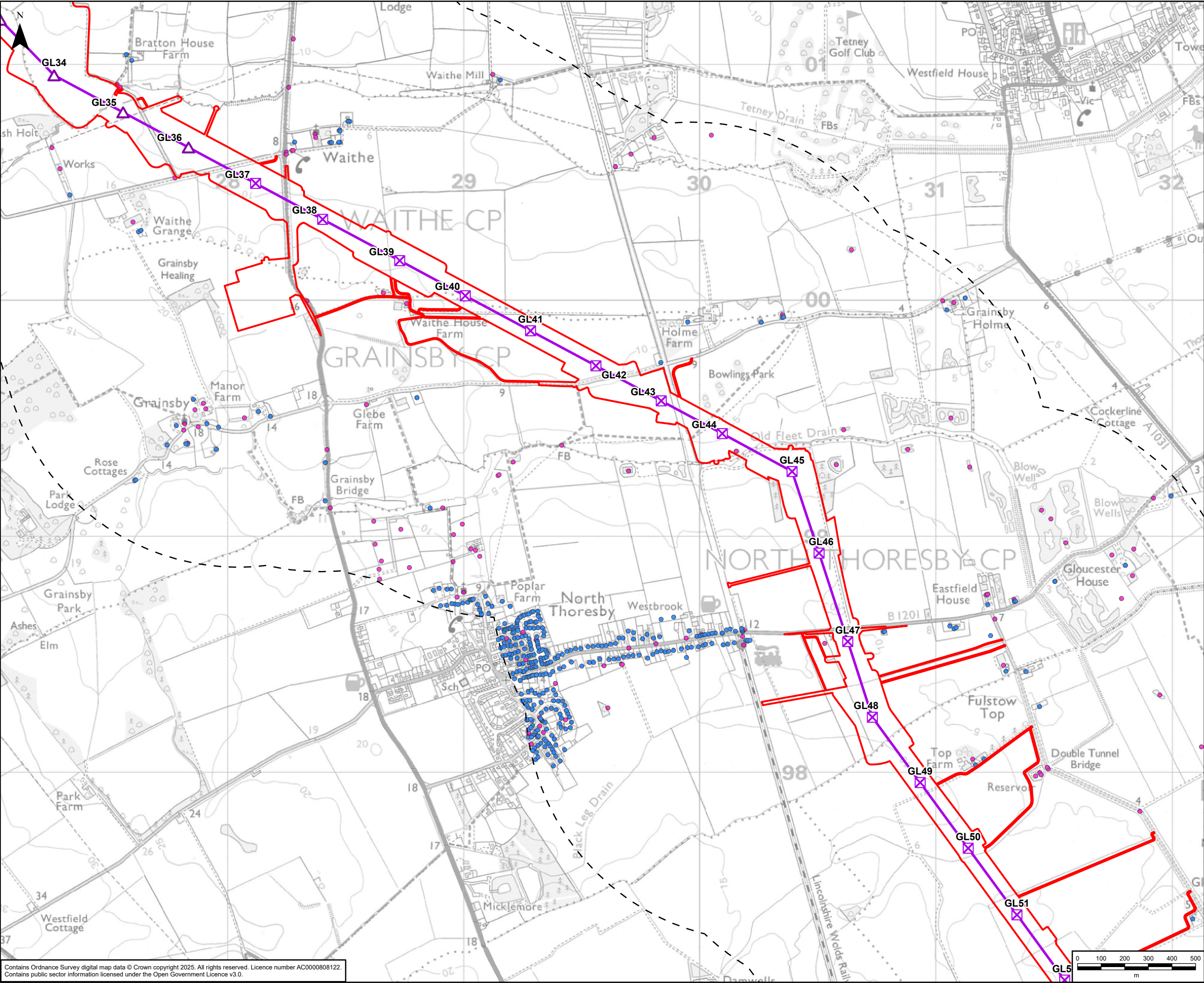
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 1km Study Area
- Indicative New Lattice Pylon
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Address Data

- Residential
- Non-Residential

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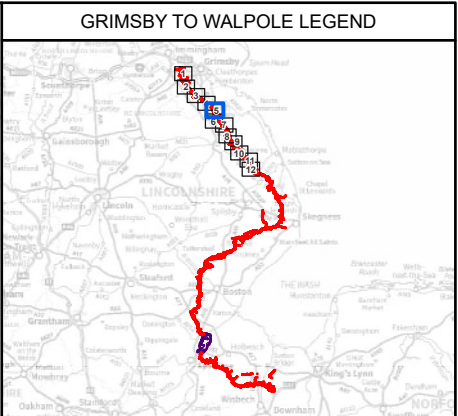
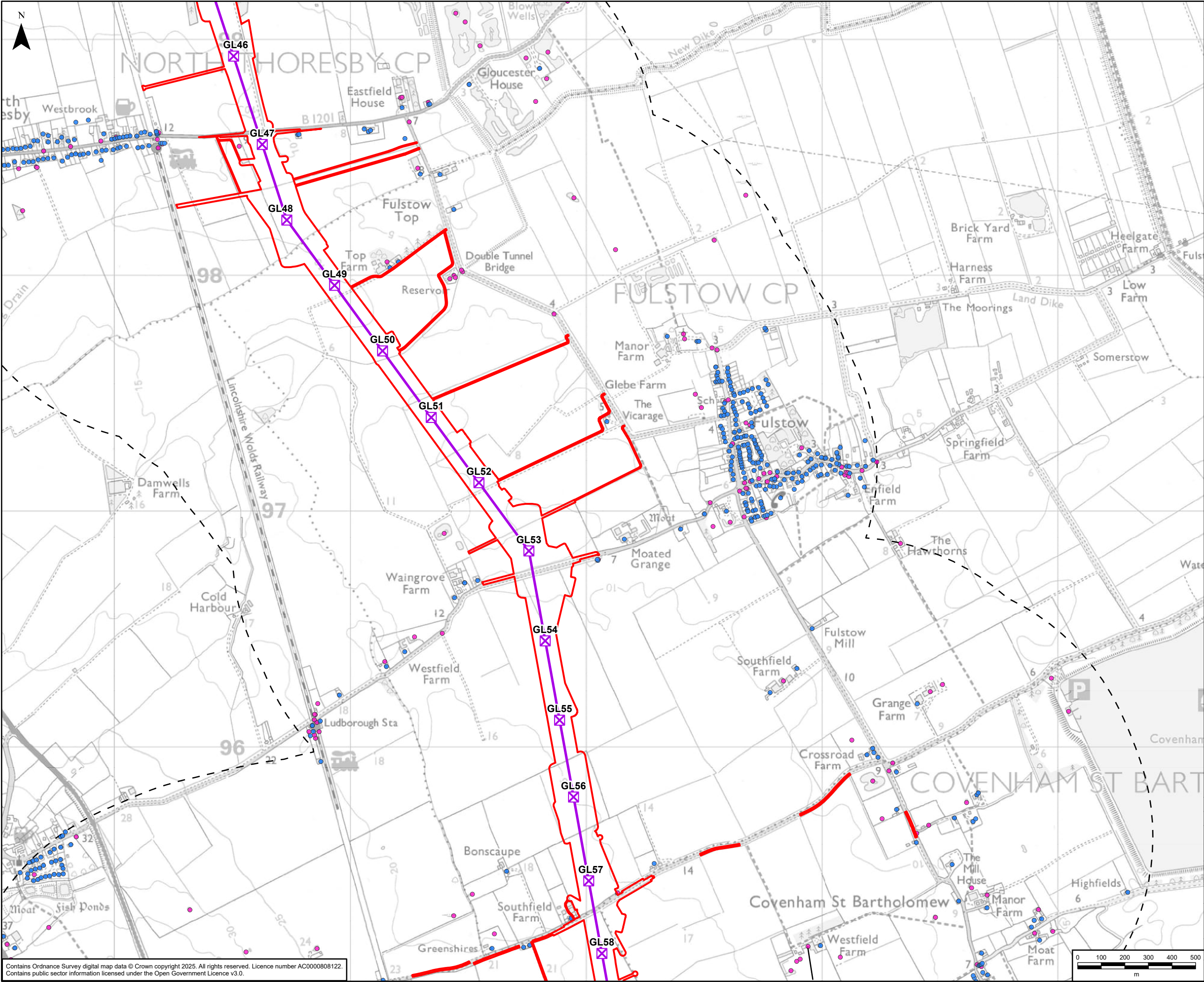
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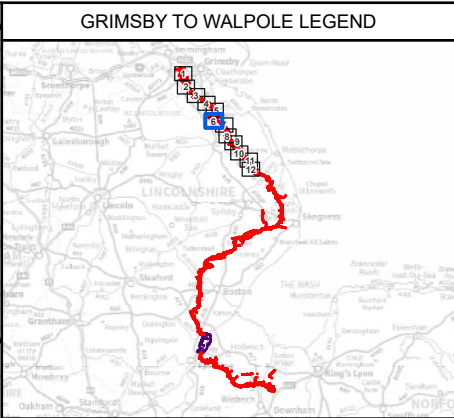
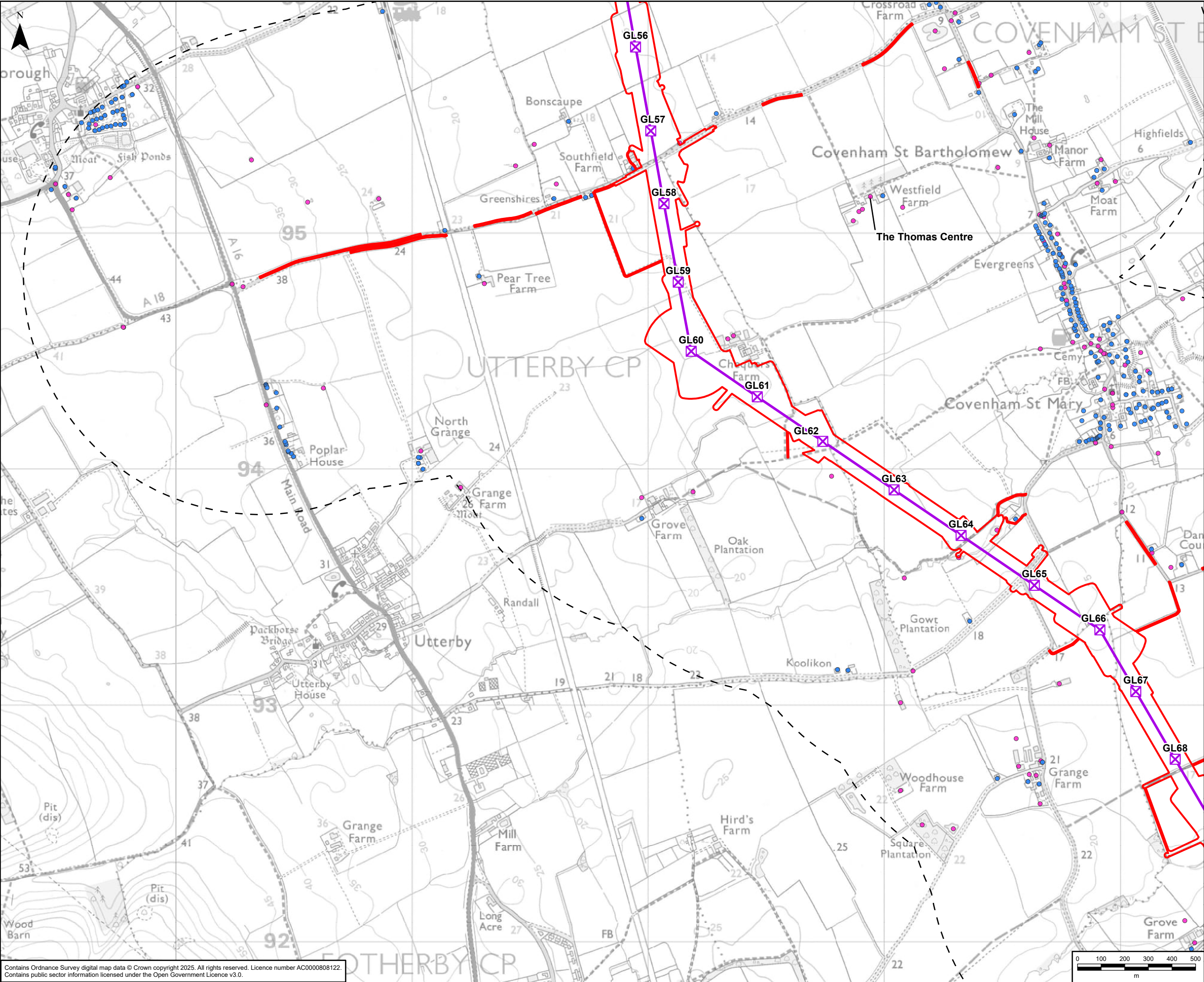
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- Legend
- Draft Order Limits
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 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
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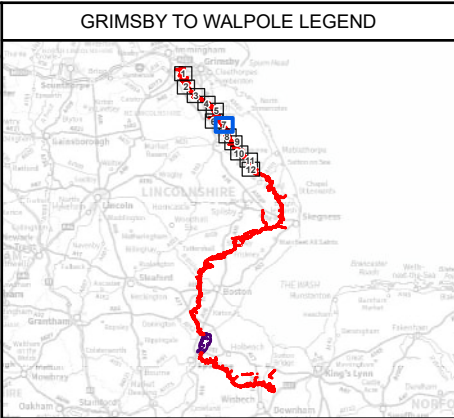
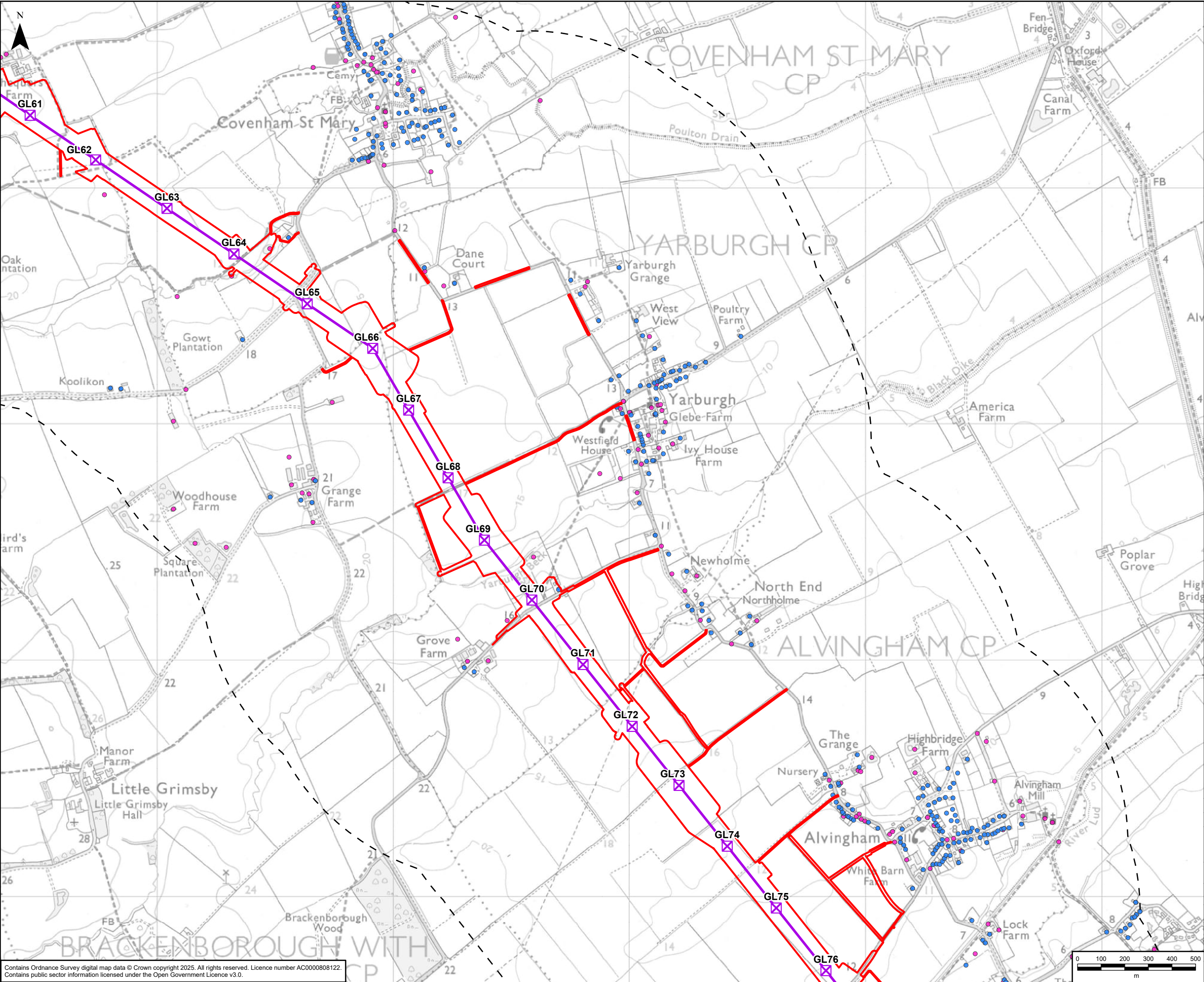
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- Legend
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 - ✕ Indicative New Lattice Pylon
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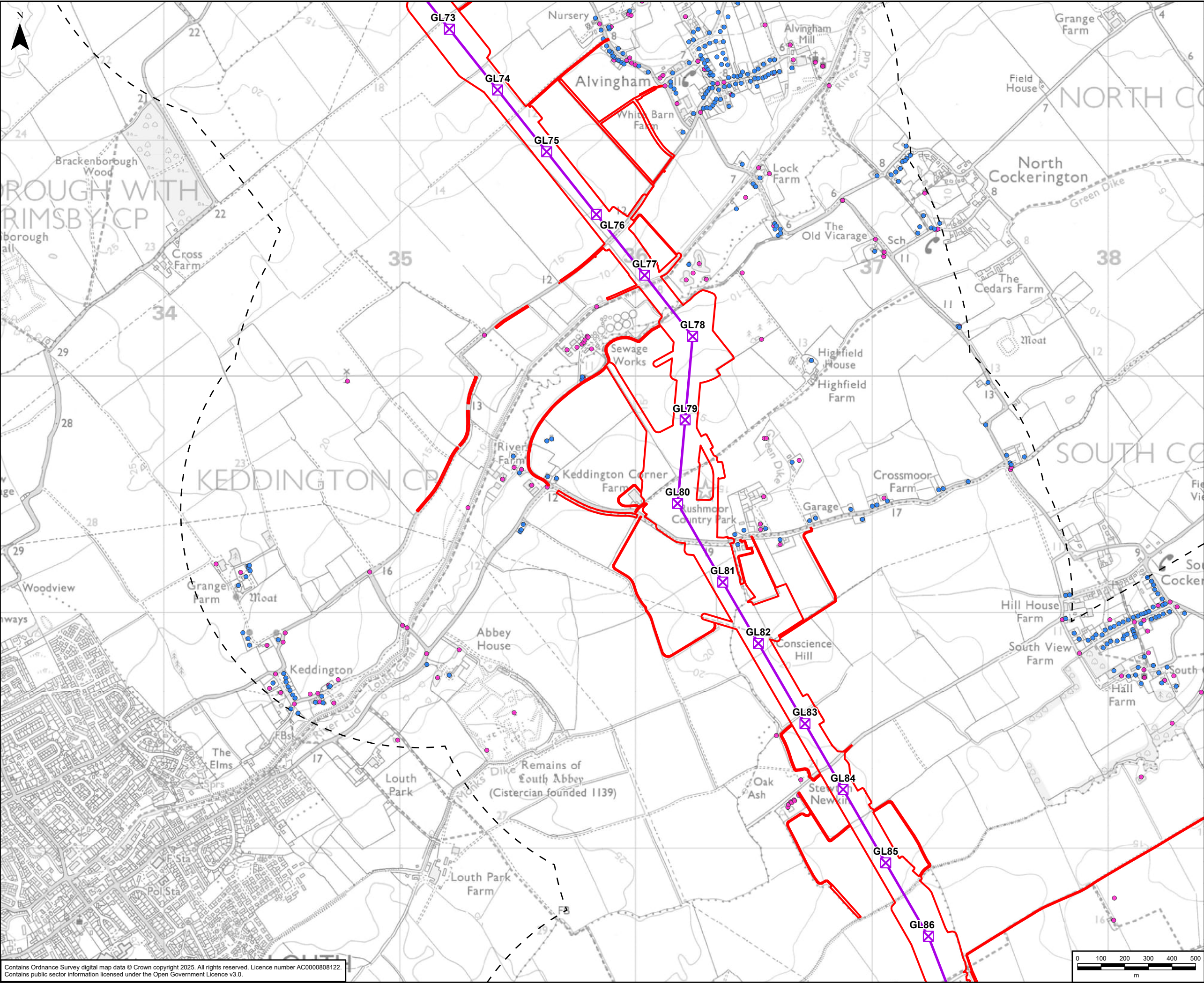
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- Legend
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 1km Study Area
- Indicative New Lattice Pylon
- Indicative New Overhead Line

Address Data

- Residential
- Non-Residential

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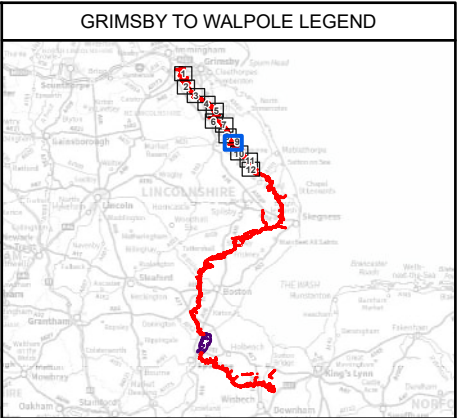
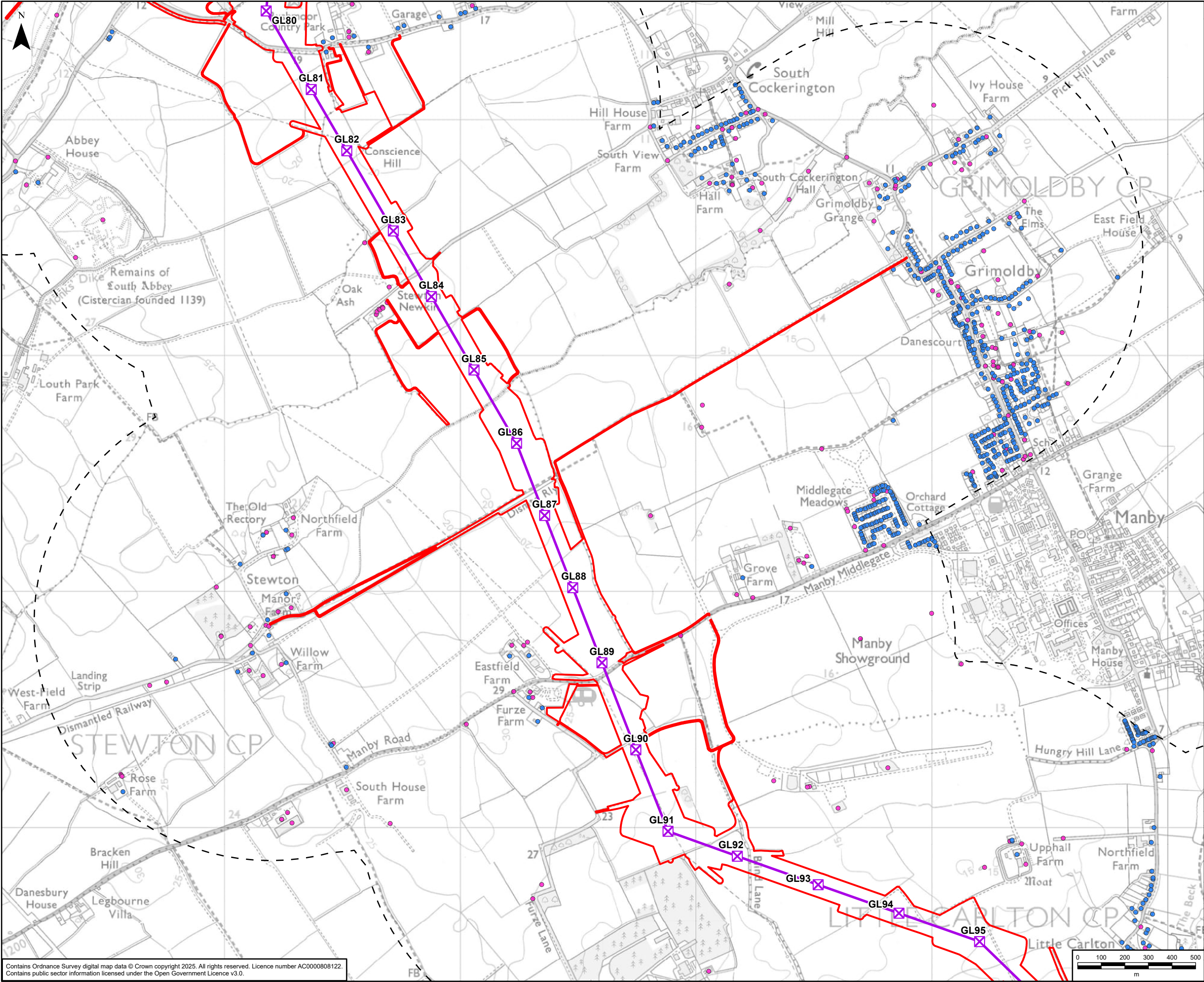
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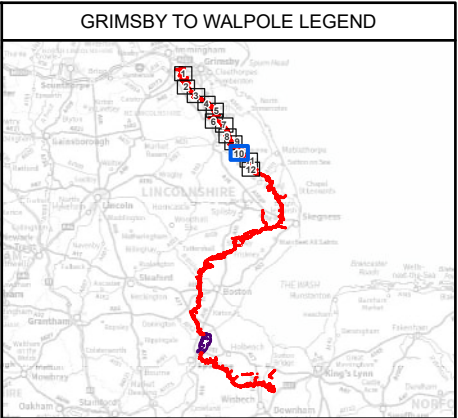
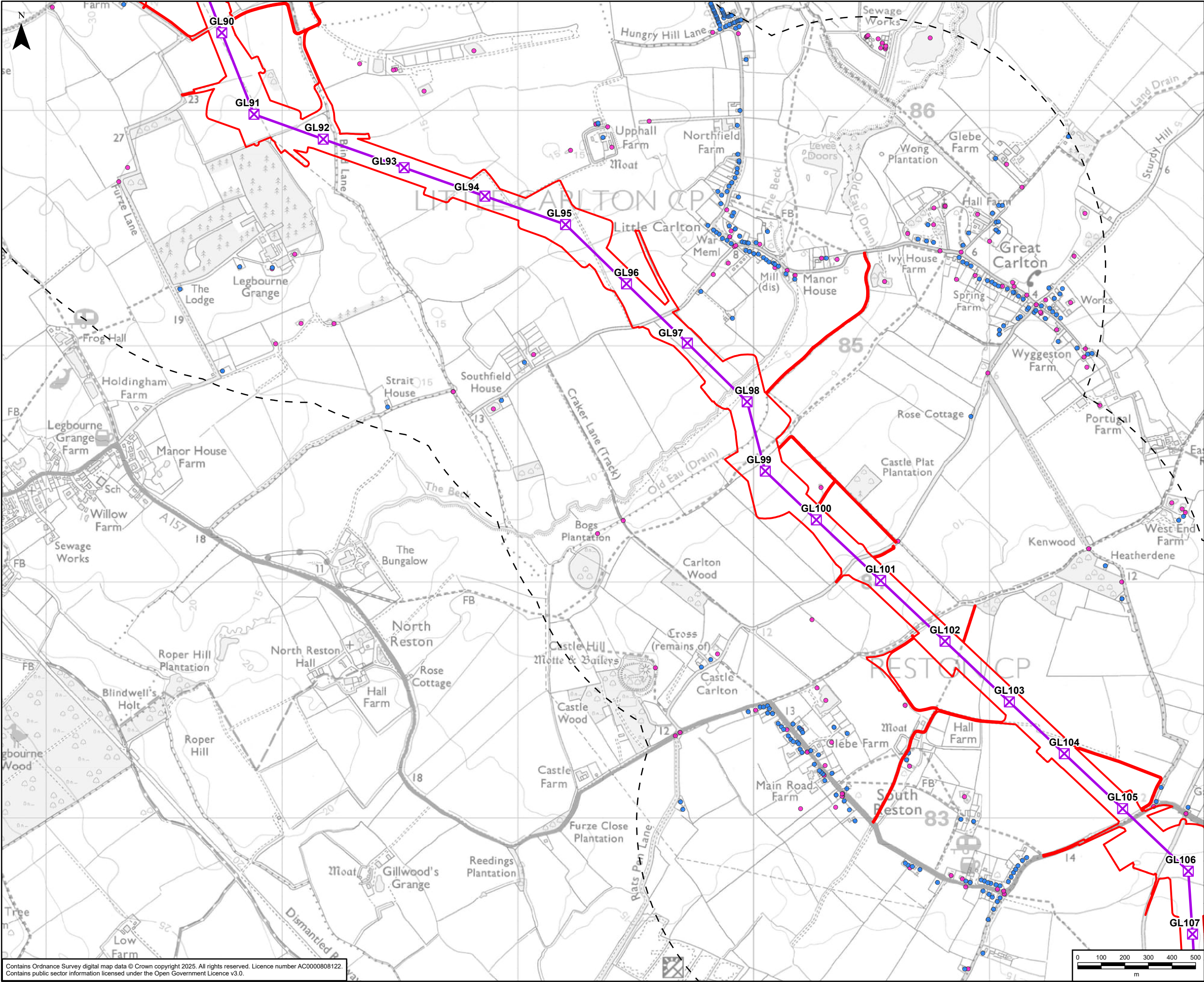
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- 1km Study Area
- Indicative New Lattice Pylon
- Indicative New Overhead Line

Address Data

- Residential
- Non-Residential

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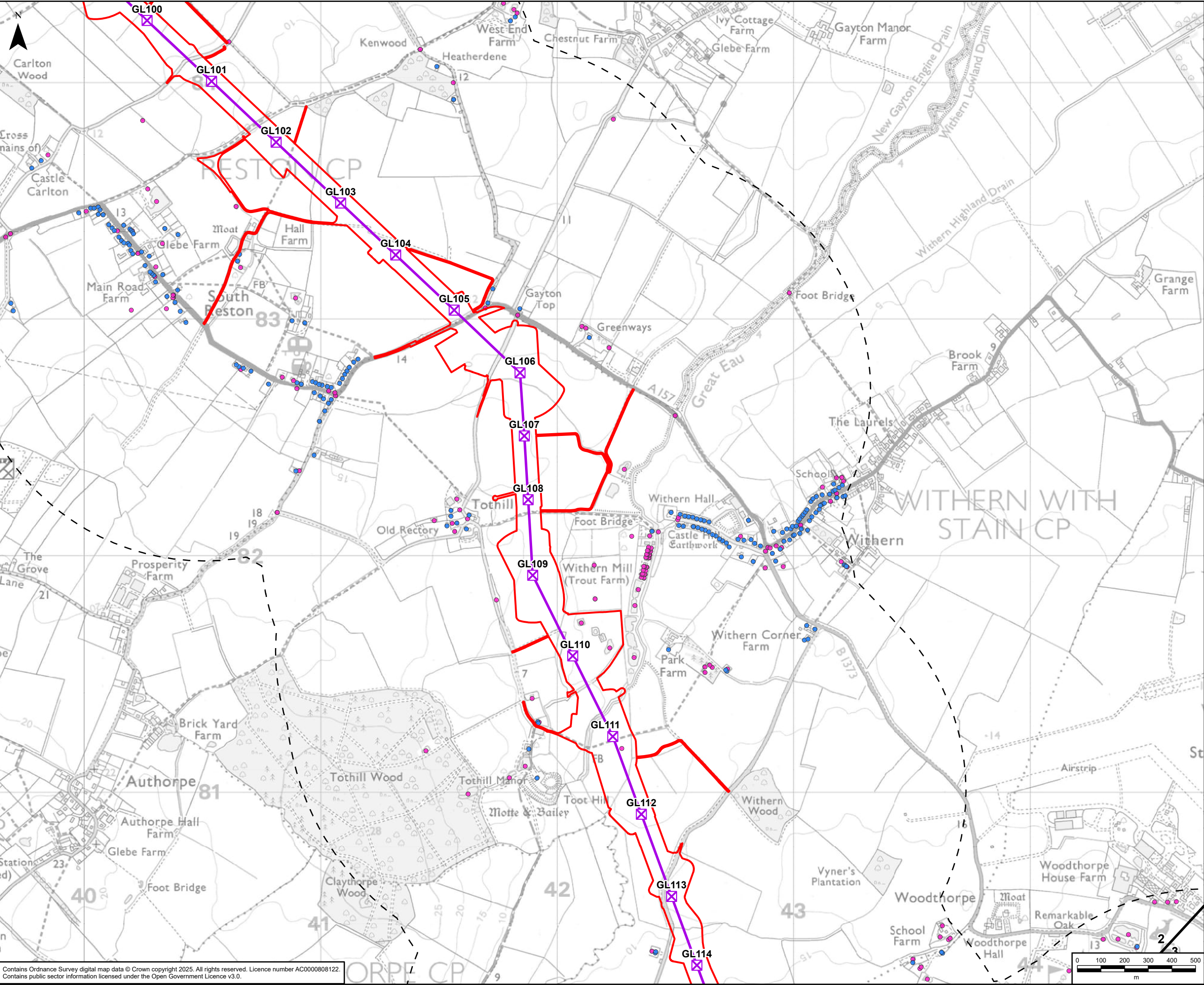
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- 1km Study Area
- Indicative New Lattice Pylon
- Indicative New Overhead Line

Address Data

- Residential
- Non-Residential

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
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Address Data

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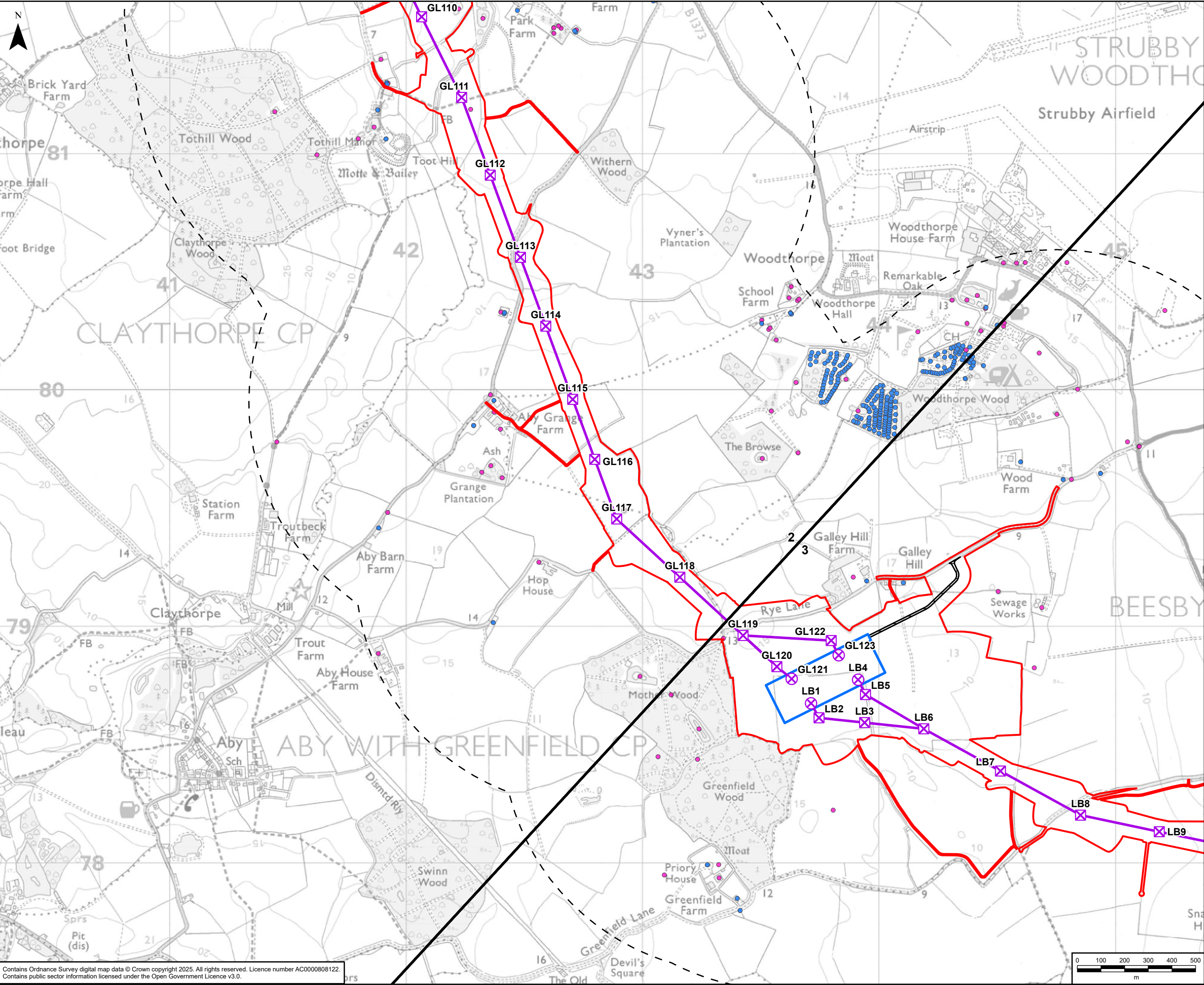
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- 1km Study Area
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Overhead Line
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route

Address Data

- Residential
- Non-Residential

A	09/05/2025	First Issue	LC	DG	DR
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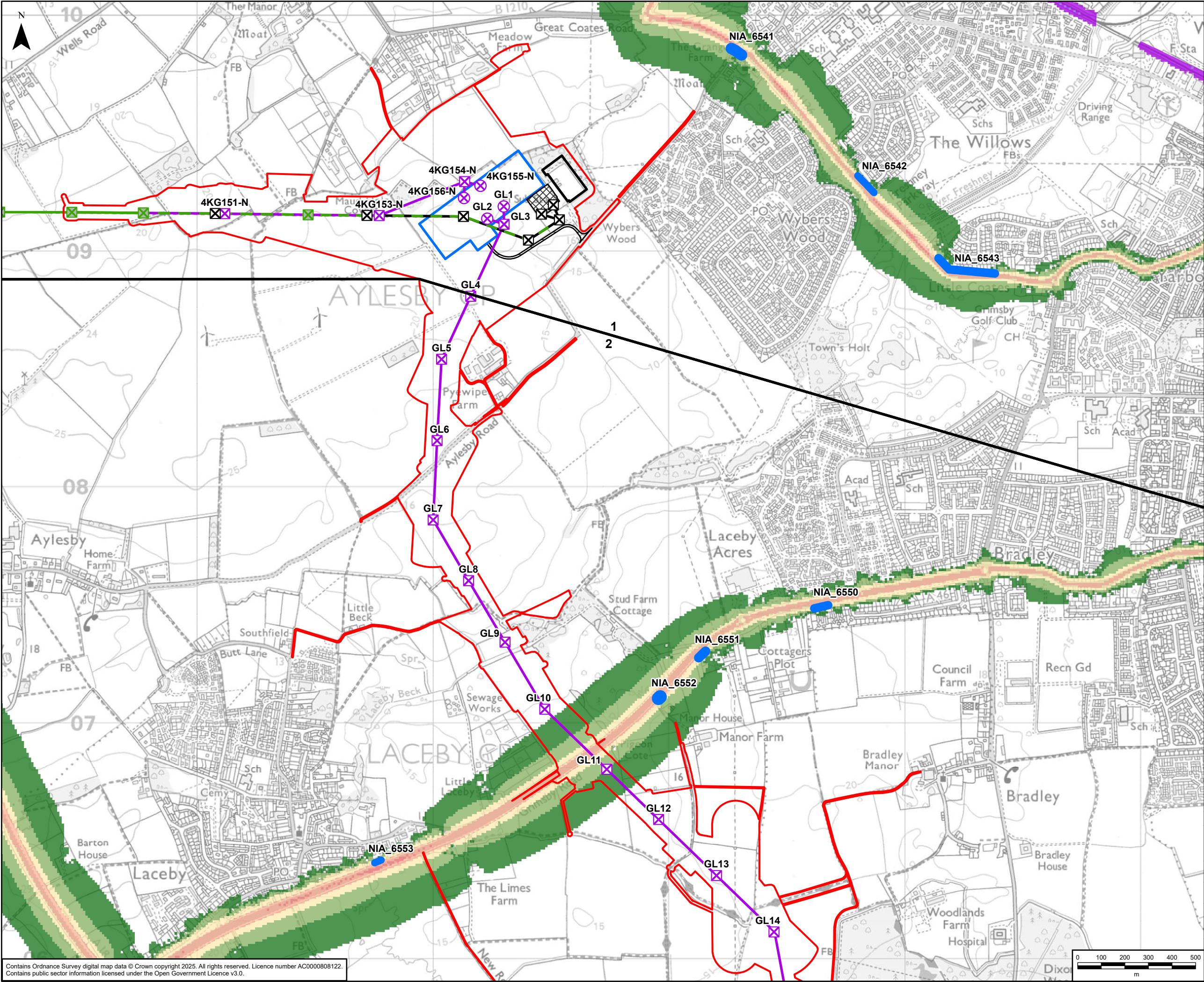
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- Indicative New Lattice Pylon
- Indicative New Gantry
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To Be Dismantled
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Existing Overhead Line - To Be Dismantled
- Existing Overhead Line - To Be Modified
- Existing Substation Boundary
- Existing Substation to be Demolished
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route
- Noise Important Area

Defra Noise Data (Rail)

- 60.0-64.9
- 55.0-59.9

Defra Noise Data (Road) - dBA

- >=75.0
- 70.0-74.9
- 65.0-69.9
- 60.0-64.9
- 55.0-59.9

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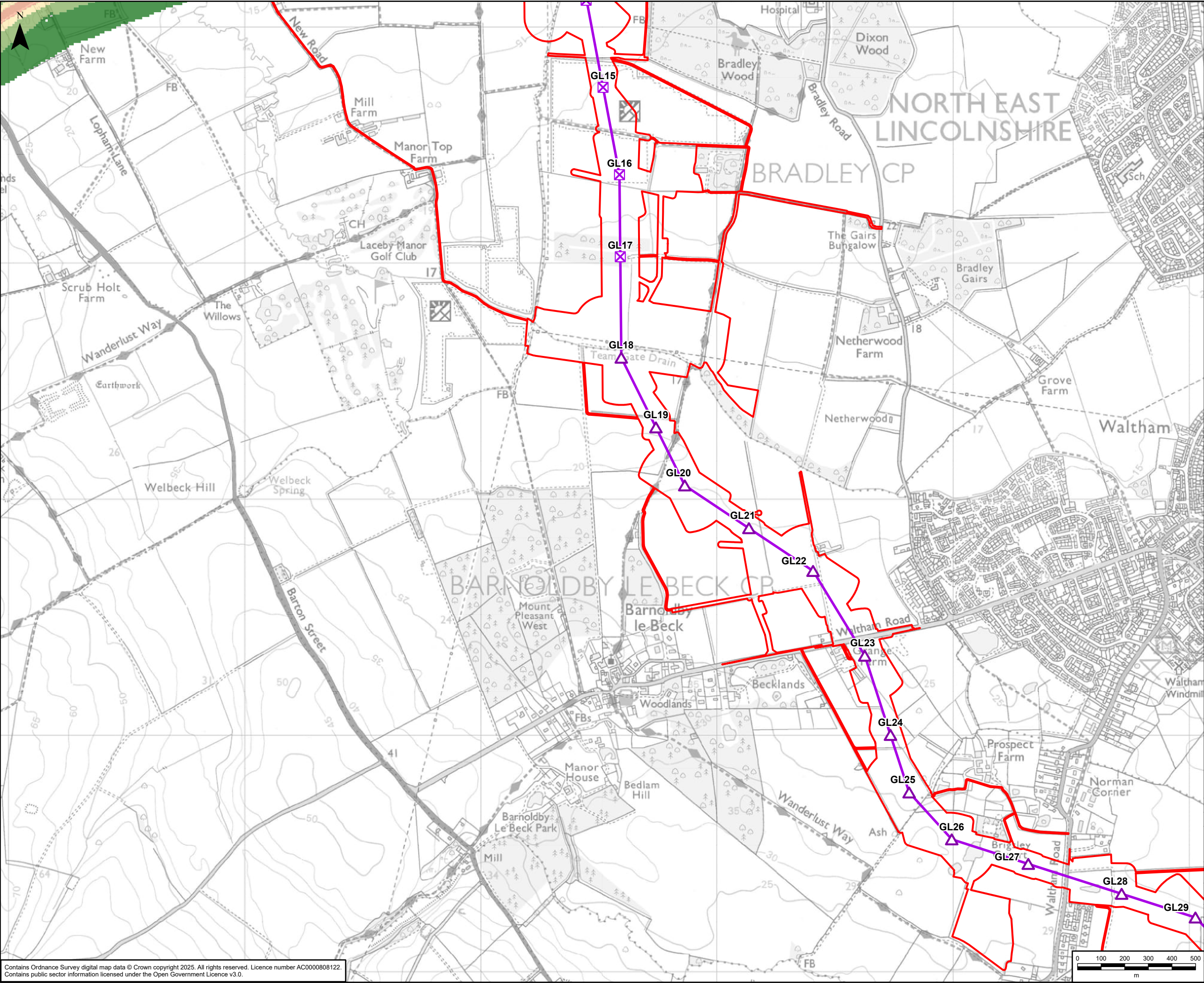
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GRIMSBY TO WALPOLE LEGEND

Legend

Draft Order Limits

Indicative New Lattice Pylon

Indicative New Low Height Lattice Pylon

Indicative New Overhead Line

Defra Noise Data (Road) - dBA

70.0-74.9

65.0-69.9

60.0-64.9

55.0-59.9

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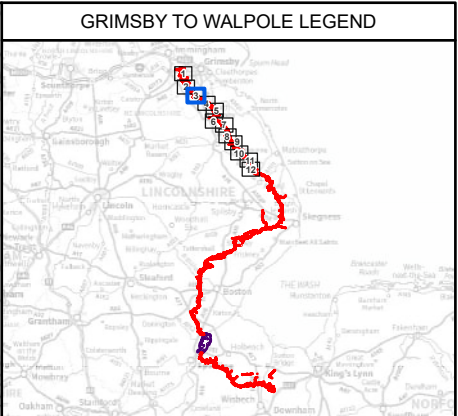
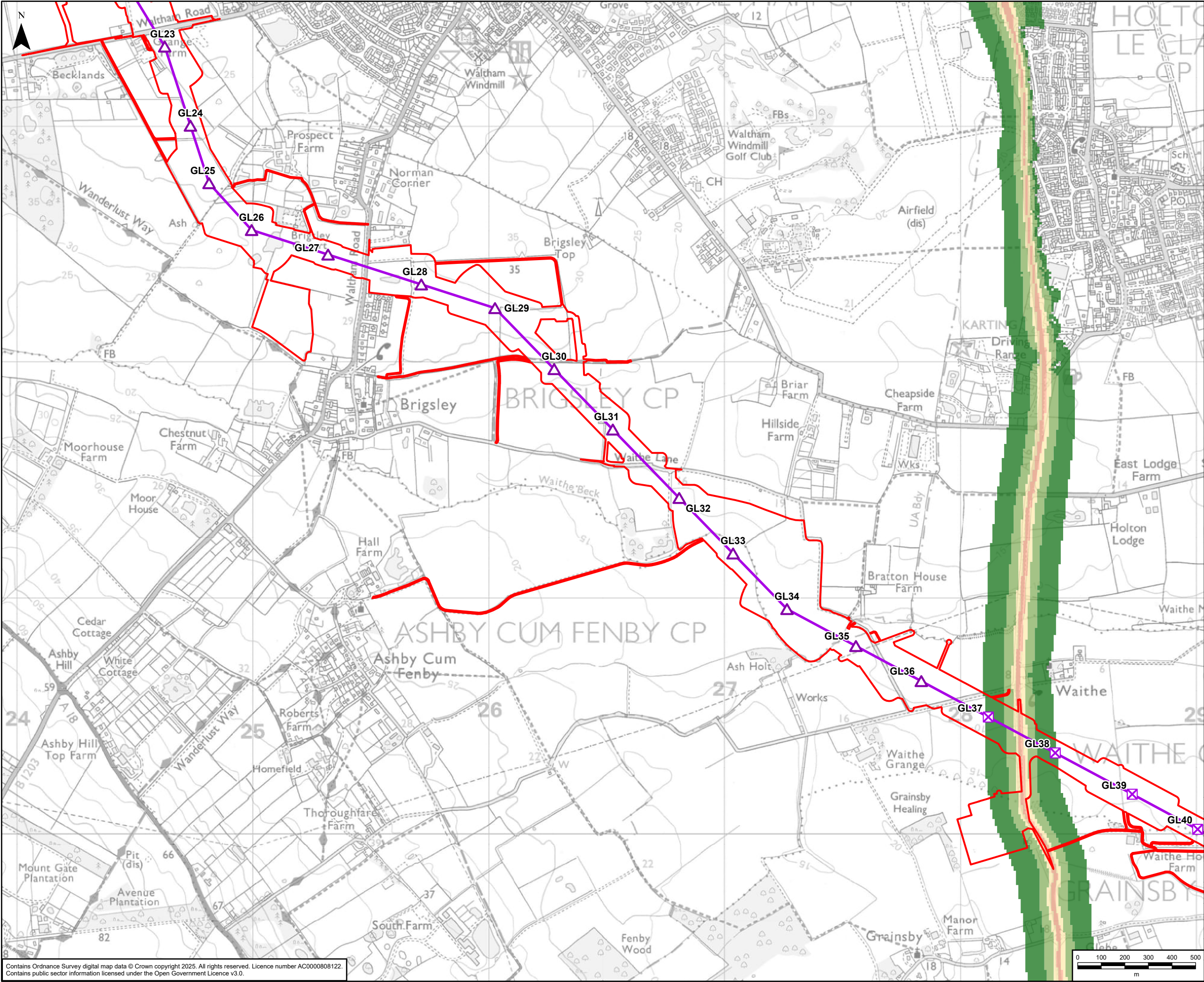
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NOISE AND VIBRATION BASELINE

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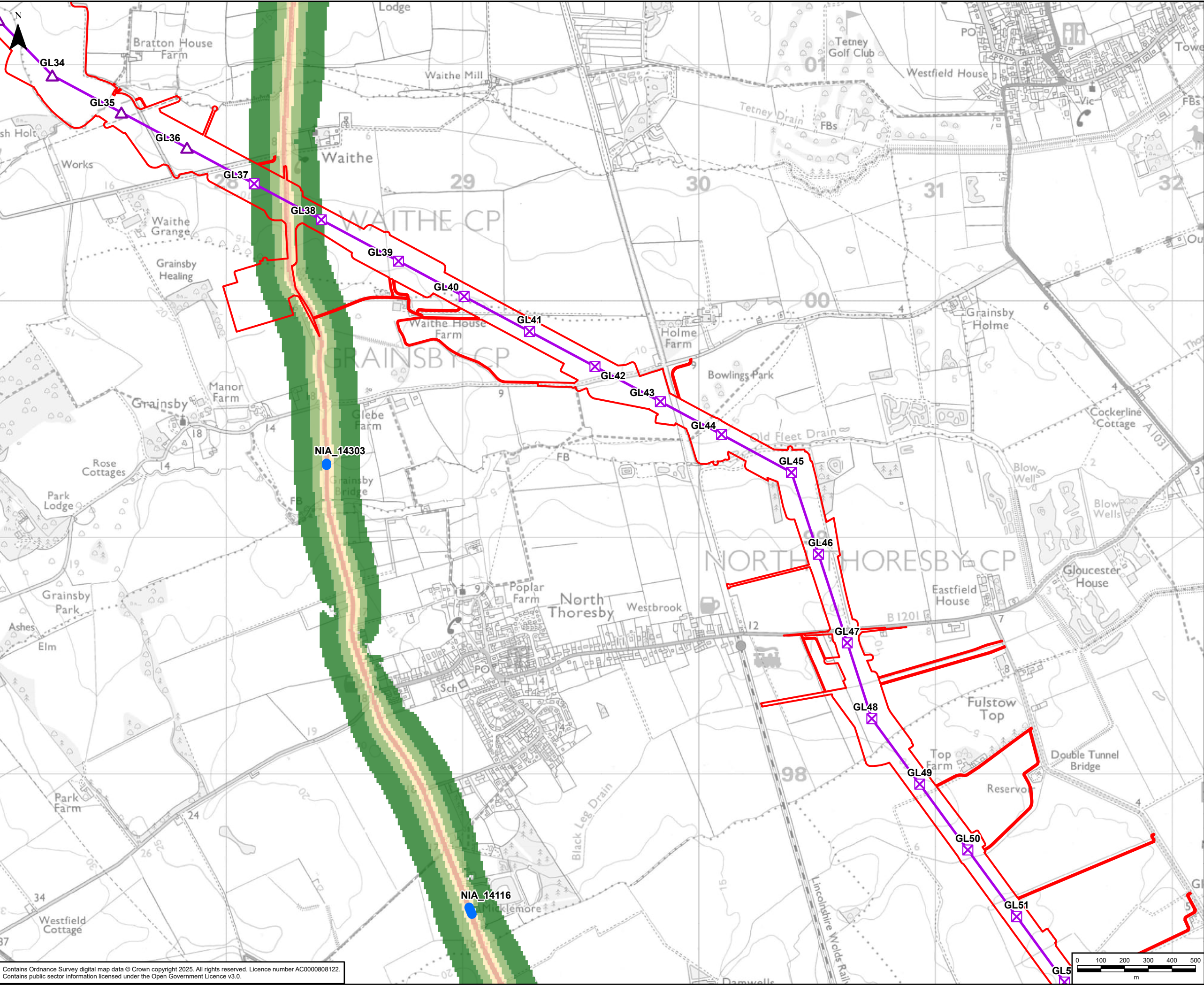
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- Indicative New Lattice Pylon
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line

Defra Noise Data (Road) - dBA

- 70.0-74.9
- 65.0-69.9
- 60.0-64.9
- 55.0-59.9

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line
- Noise Important Area

Defra Noise Data (Road) - dBA

- 70.0-74.9
- 65.0-69.9
- 60.0-64.9
- 55.0-59.9

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Purpose:

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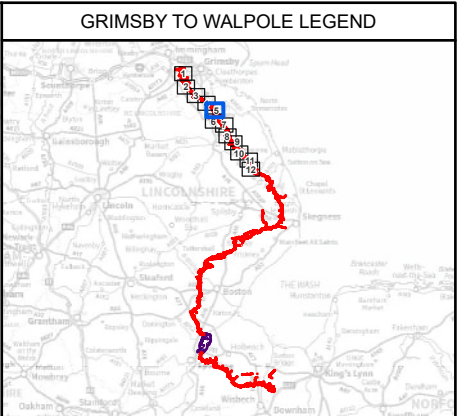
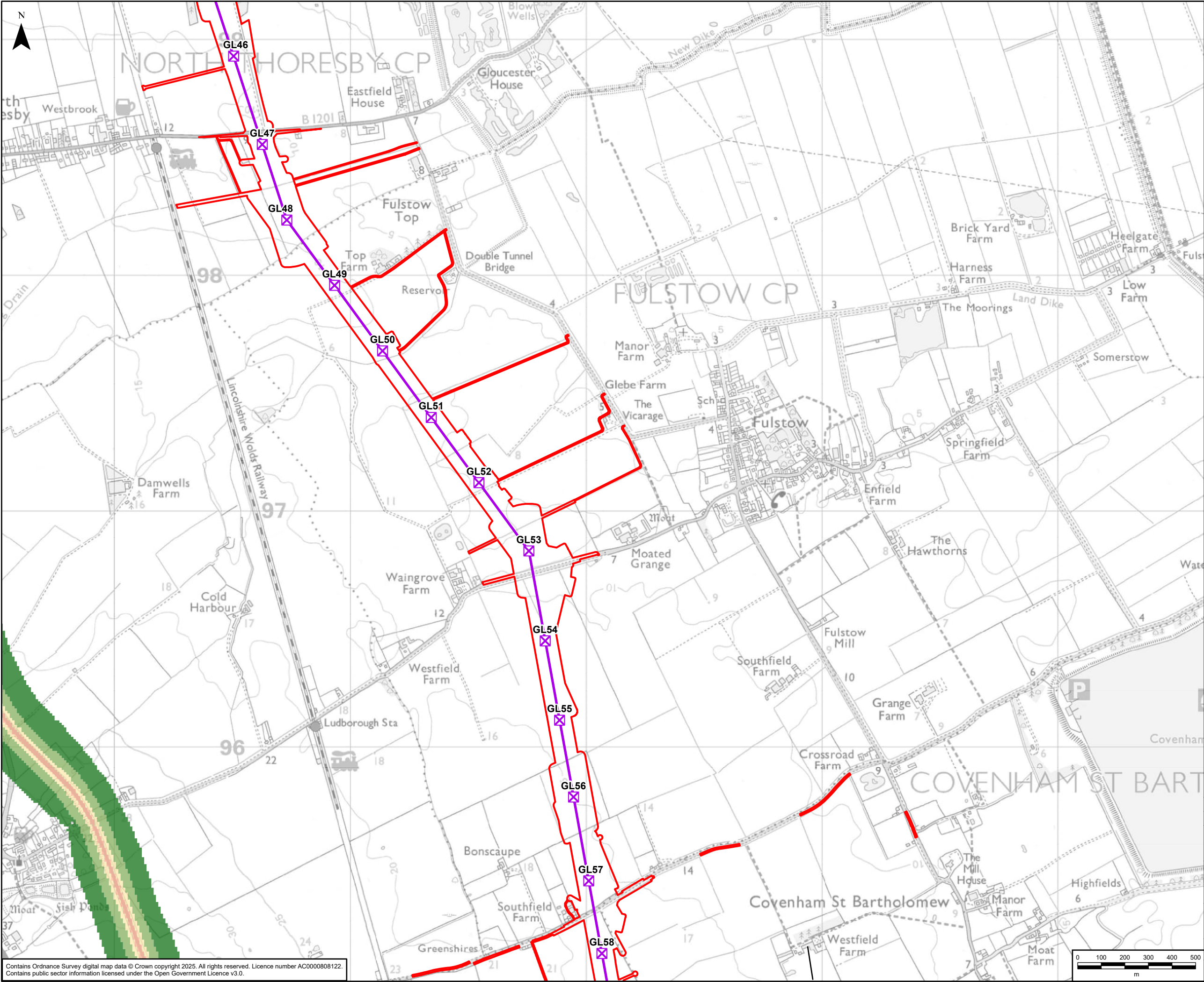
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NOISE AND VIBRATION BASELINE

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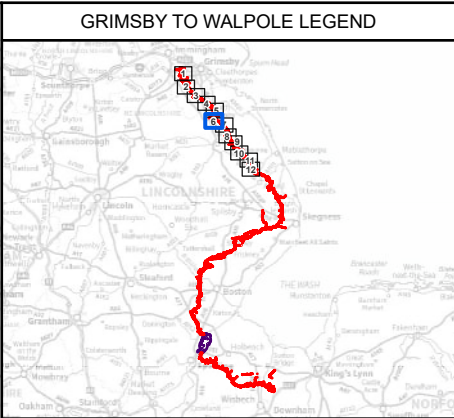
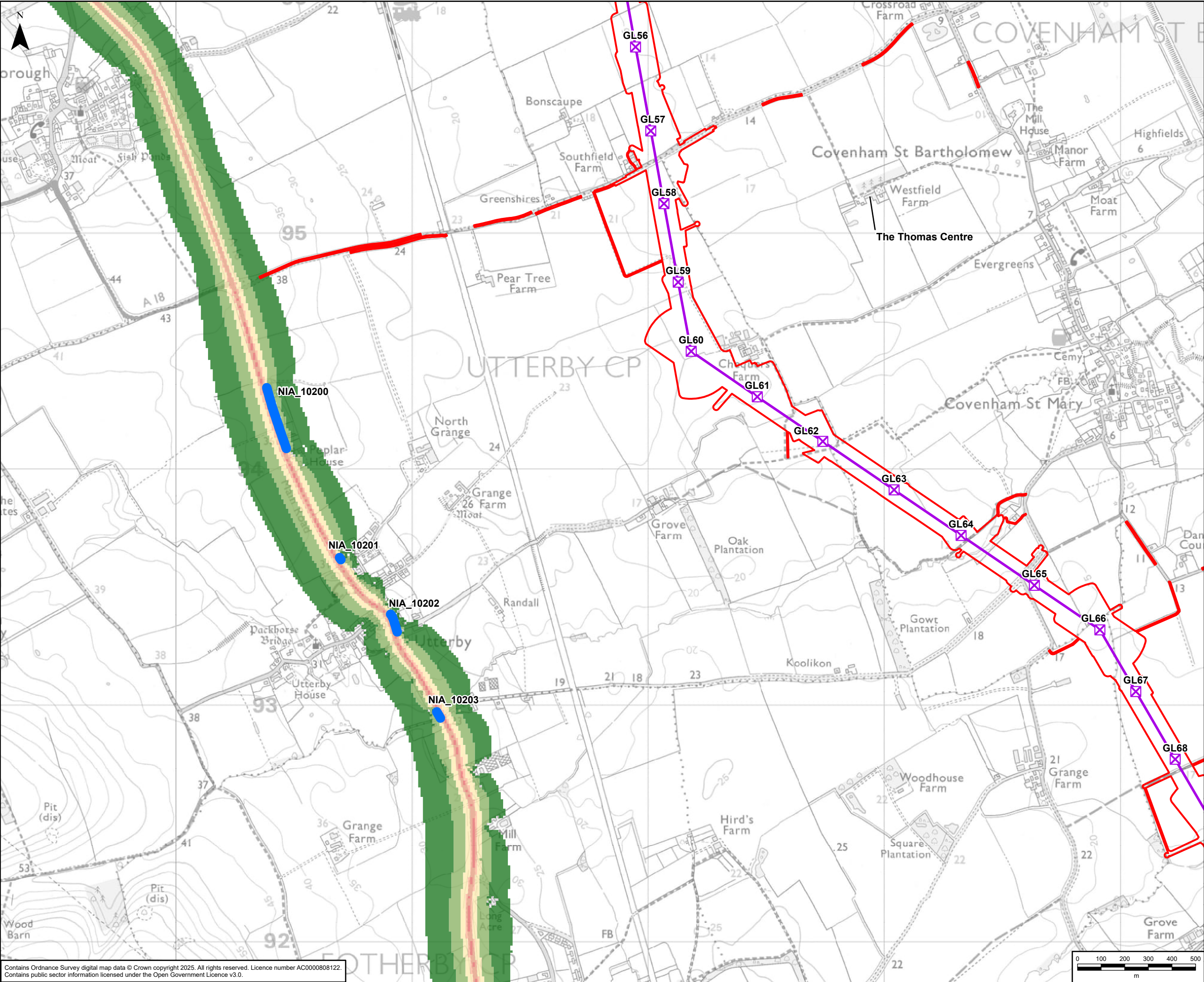
- Draft Order Limits
- ✕ Indicative New Lattice Pylon
- Indicative New Overhead Line

Defra Noise Data (Road) - dBA

- 70.0-74.9
- 65.0-69.9
- 60.0-64.9
- 55.0-59.9

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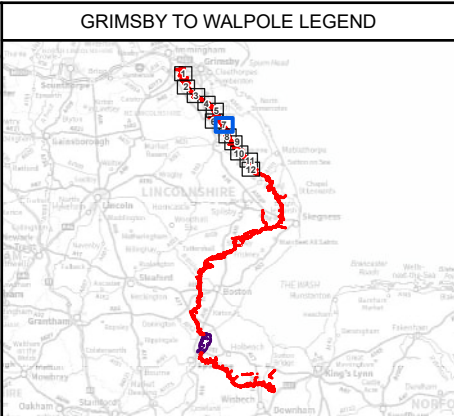
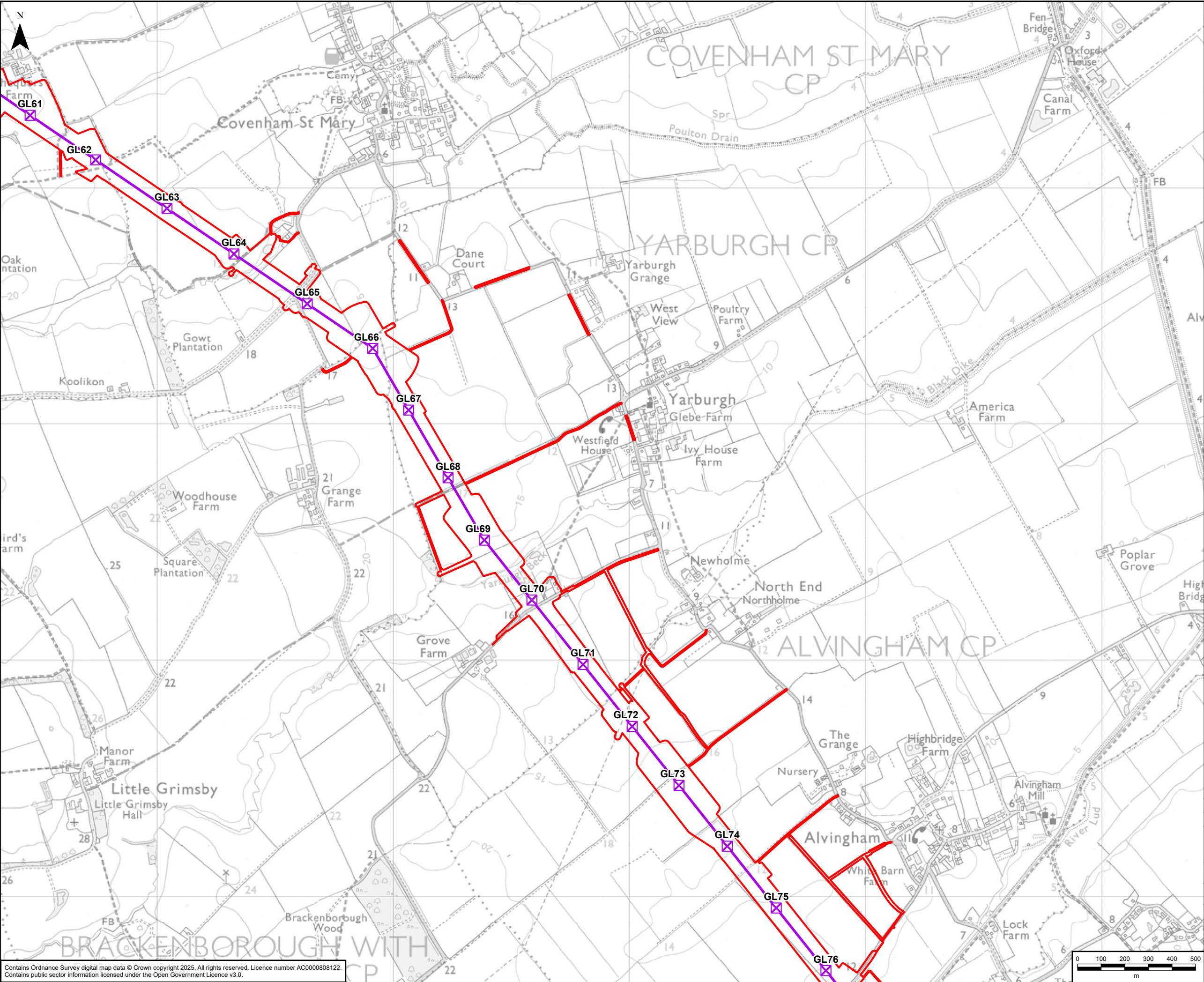
GRIMSBY TO WALPOLE LEGEND

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- Draft Order Limits
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Noise Important Area
- Defra Noise Data (Road) - dBA
- >=75.0
- 70.0-74.9
- 65.0-69.9
- 60.0-64.9
- 55.0-59.9

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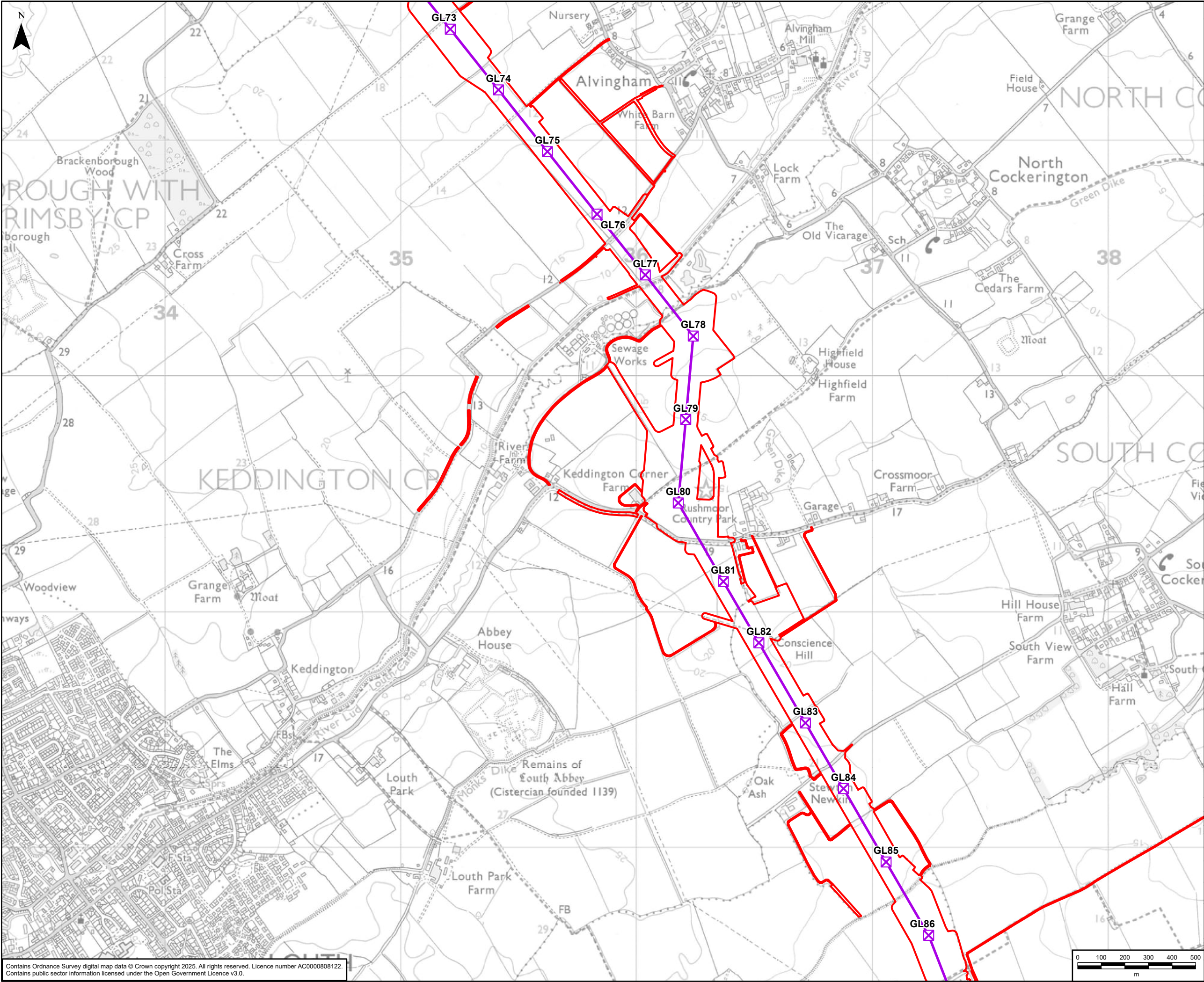
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- Legend
- Draft Order Limits
 - X Indicative New Lattice Pylon
 - Indicative New Overhead Line

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GRIMSBY TO WALPOLE LEGEND

Legend

Draft Order Limits

Indicative New Lattice Pylon

Indicative New Overhead Line

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FIGURE 10.2
NOISE AND VIBRATION BASELINE

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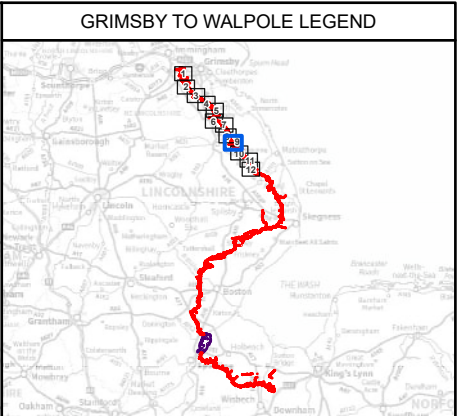
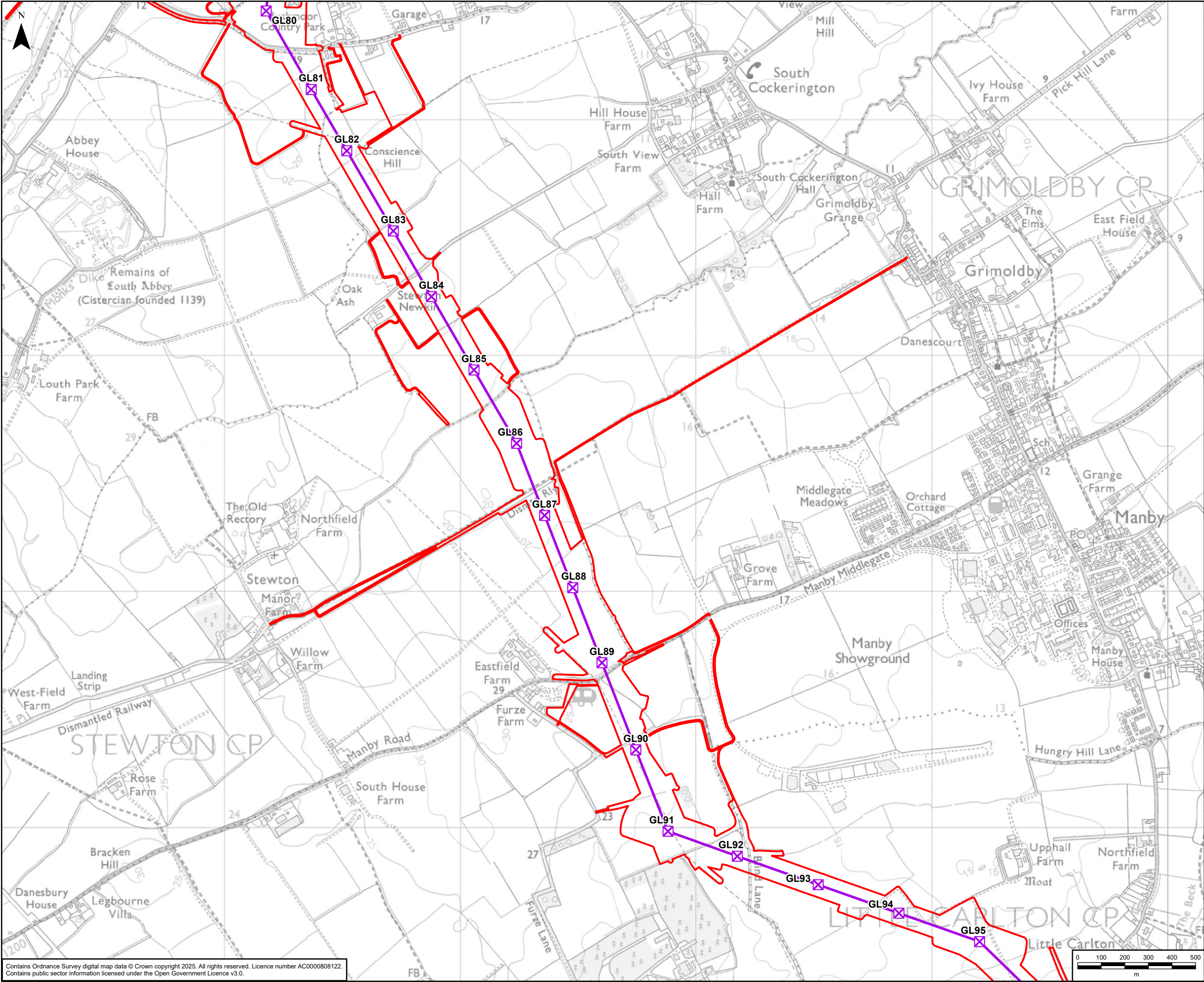
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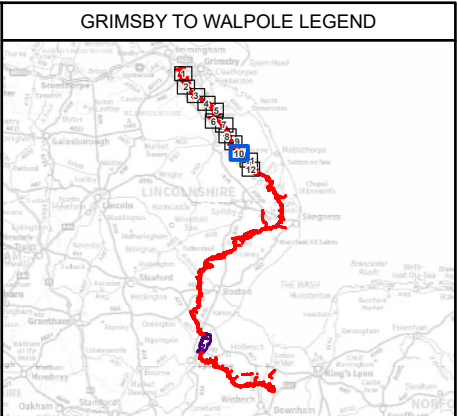
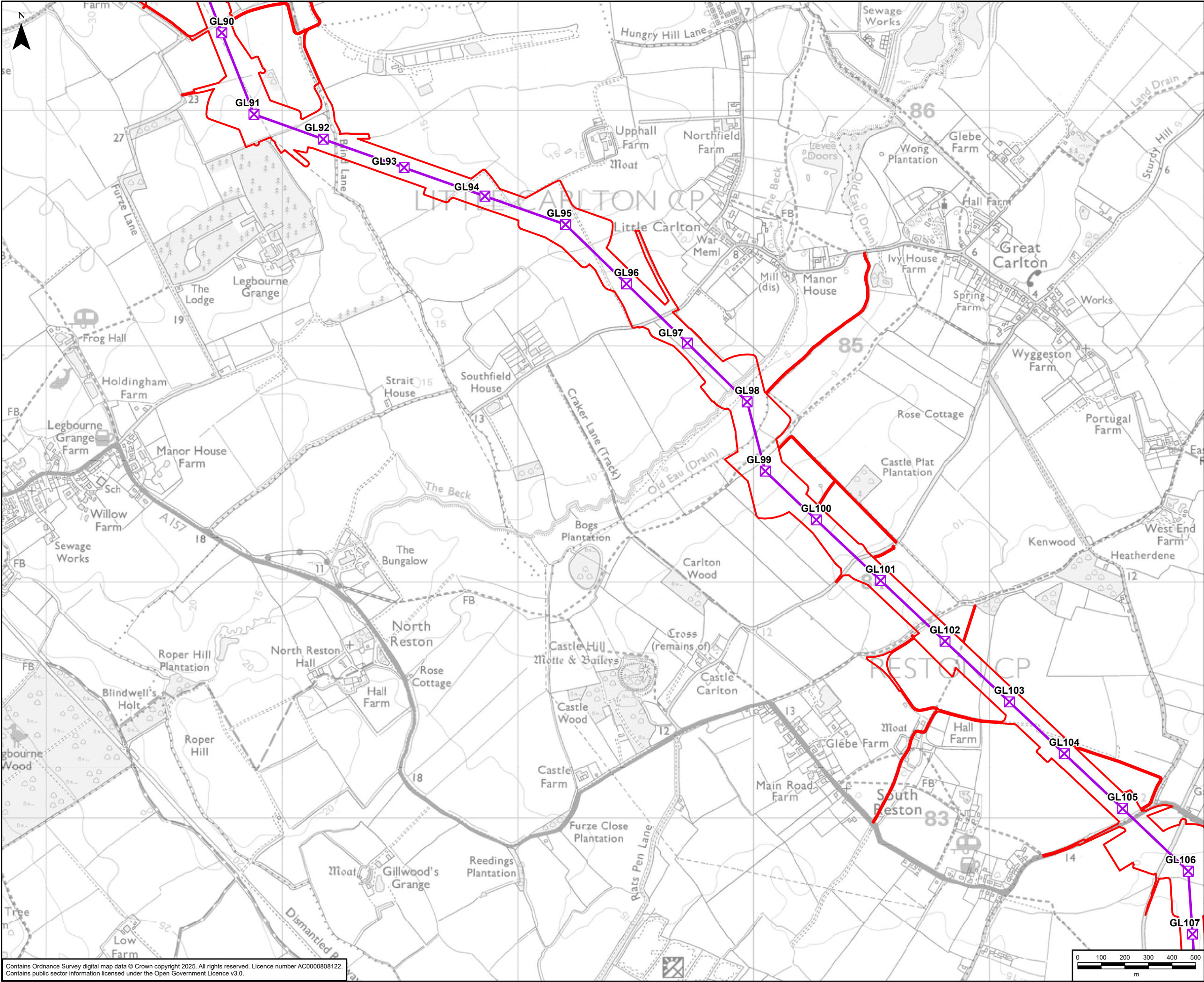
GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Indicative New Overhead Line

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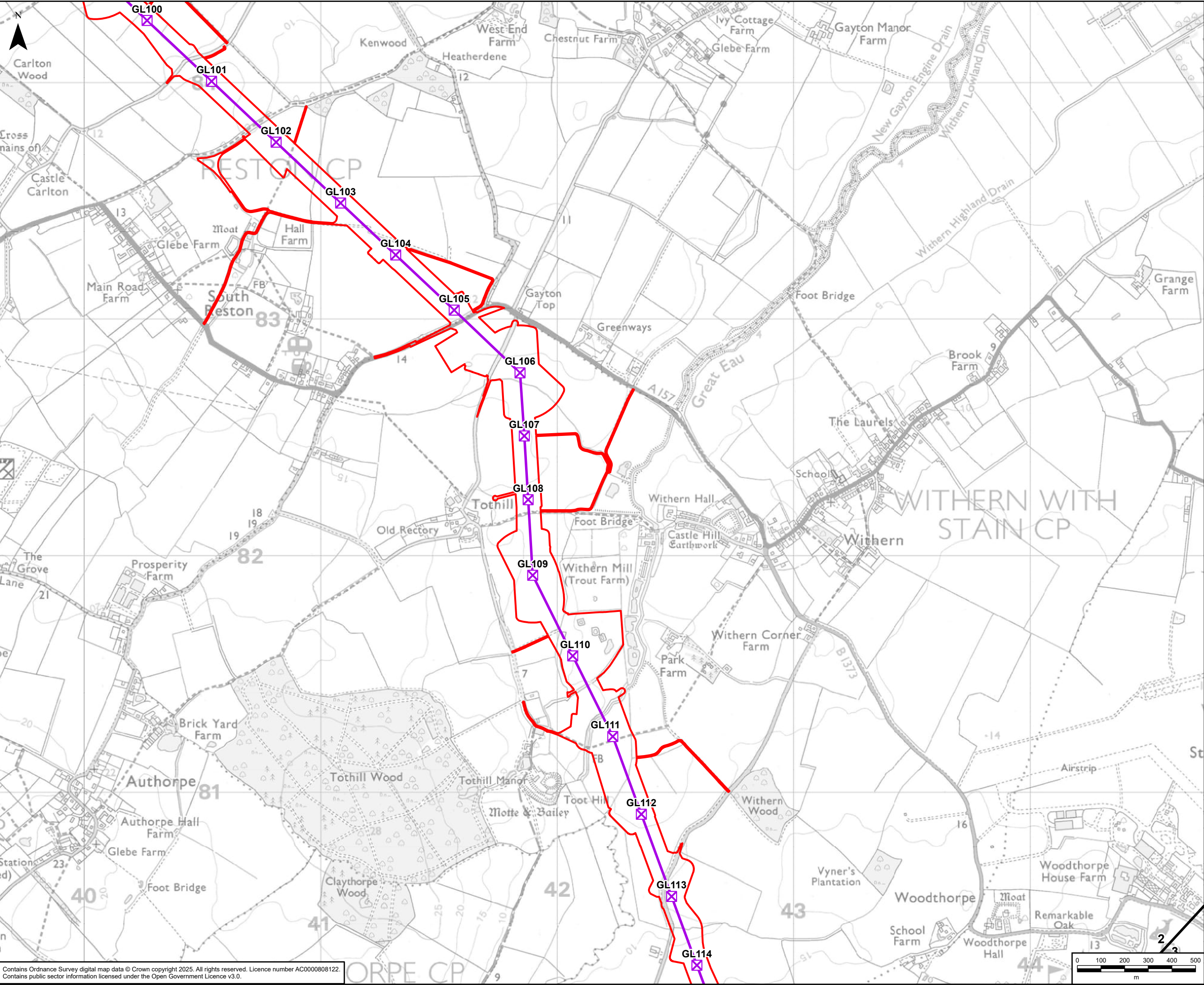
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- Legend
- Draft Order Limits
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- Indicative New Lattice Pylon
- Indicative New Overhead Line

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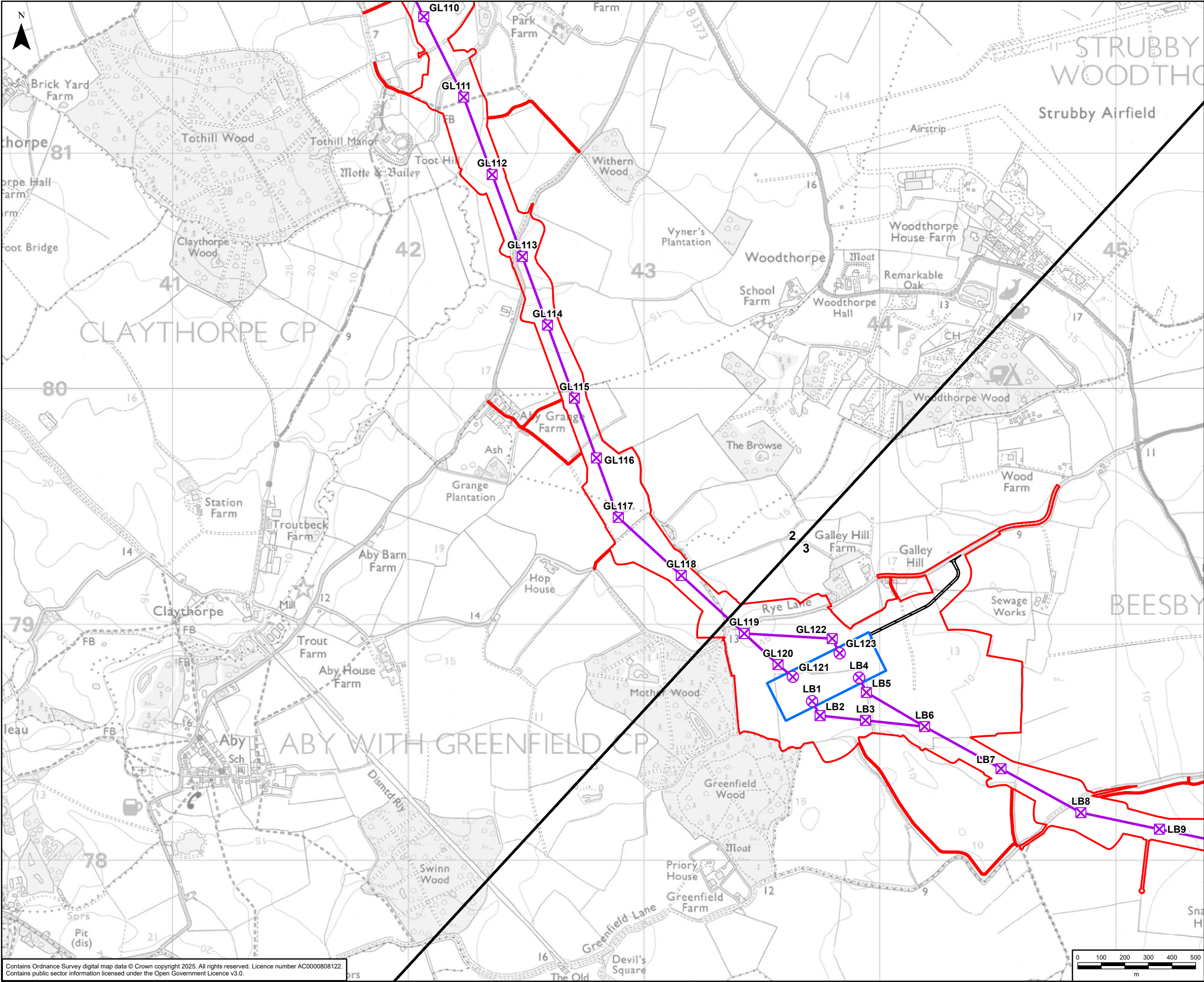
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GRIMSBY TO WALPOLE LEGEND

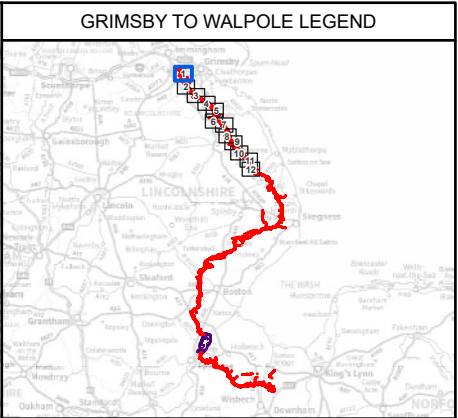
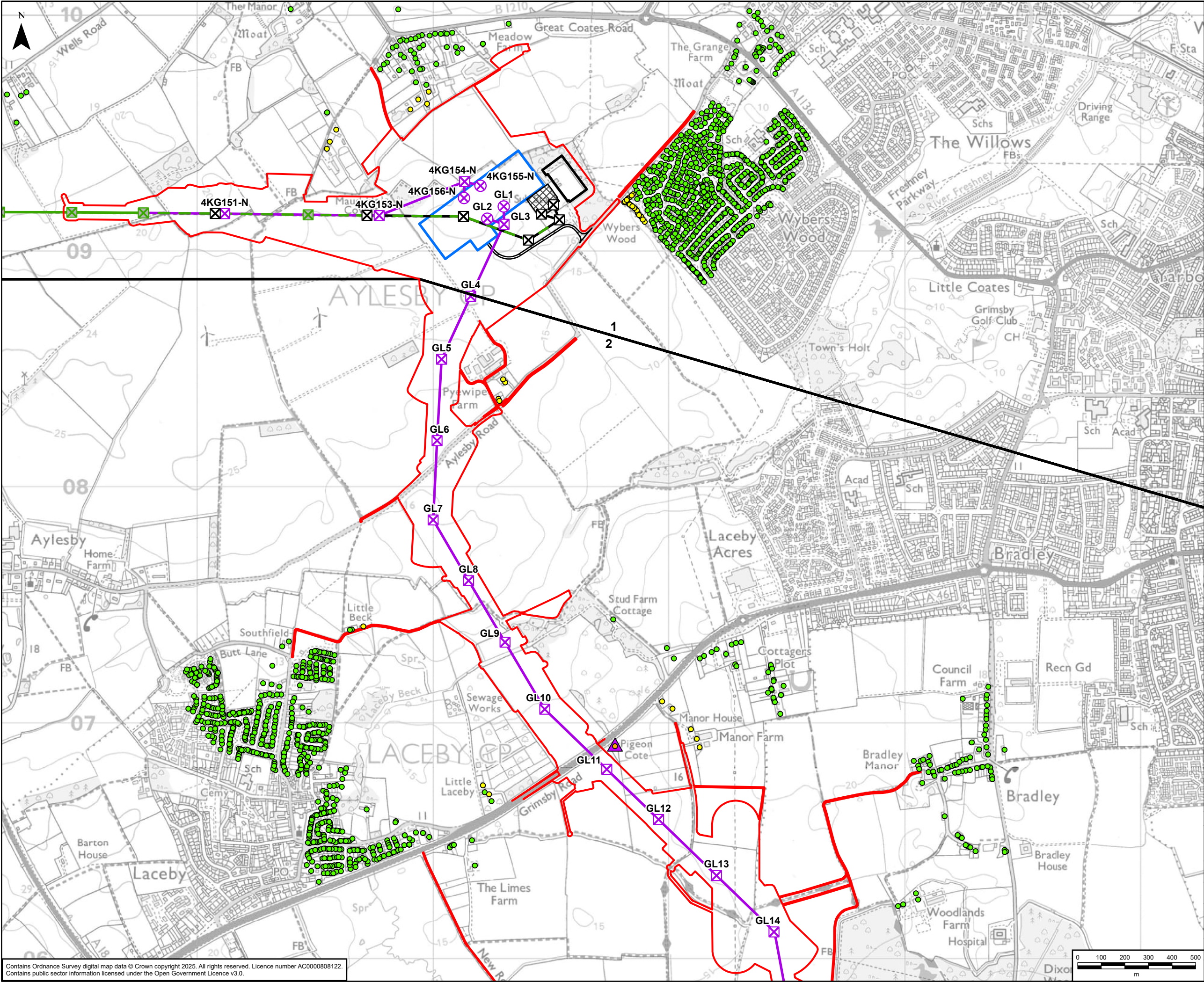
Legend

- Draft Order Limits
- Route Section Break
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Overhead Line
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- Indicative New Lattice Pylon
- Indicative New Gantry
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To Be Dismantled
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Existing Overhead Line - To Be Dismantled
- Existing Overhead Line - To Be Modified
- Existing Substation Boundary
- Existing Substation to be Demolished
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route

Construction Noise Levels

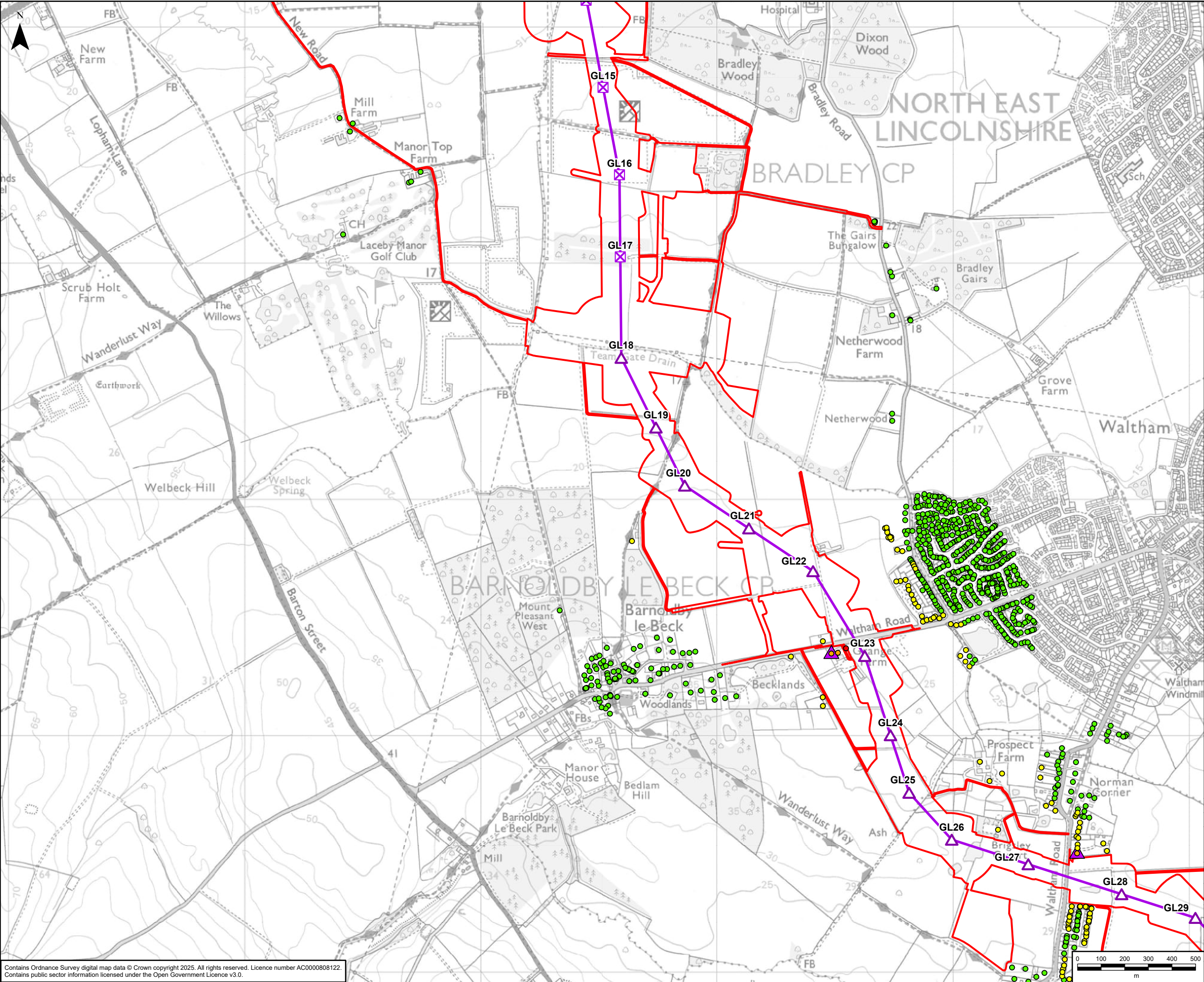
- Negligible
- Small
- Medium

Construction Noise Assessment

- Significant Adverse Effect - Residential

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GRIMSBY TO WALPOLE LEGEND

Legend

Draft Order Limits

Indicative New Lattice Pylon

Indicative New Low Height Lattice Pylon

Indicative New Overhead Line

Construction Noise Levels

Negligible

Small

Medium

Large

Construction Noise Assessment

Significant Adverse Effect - Residential

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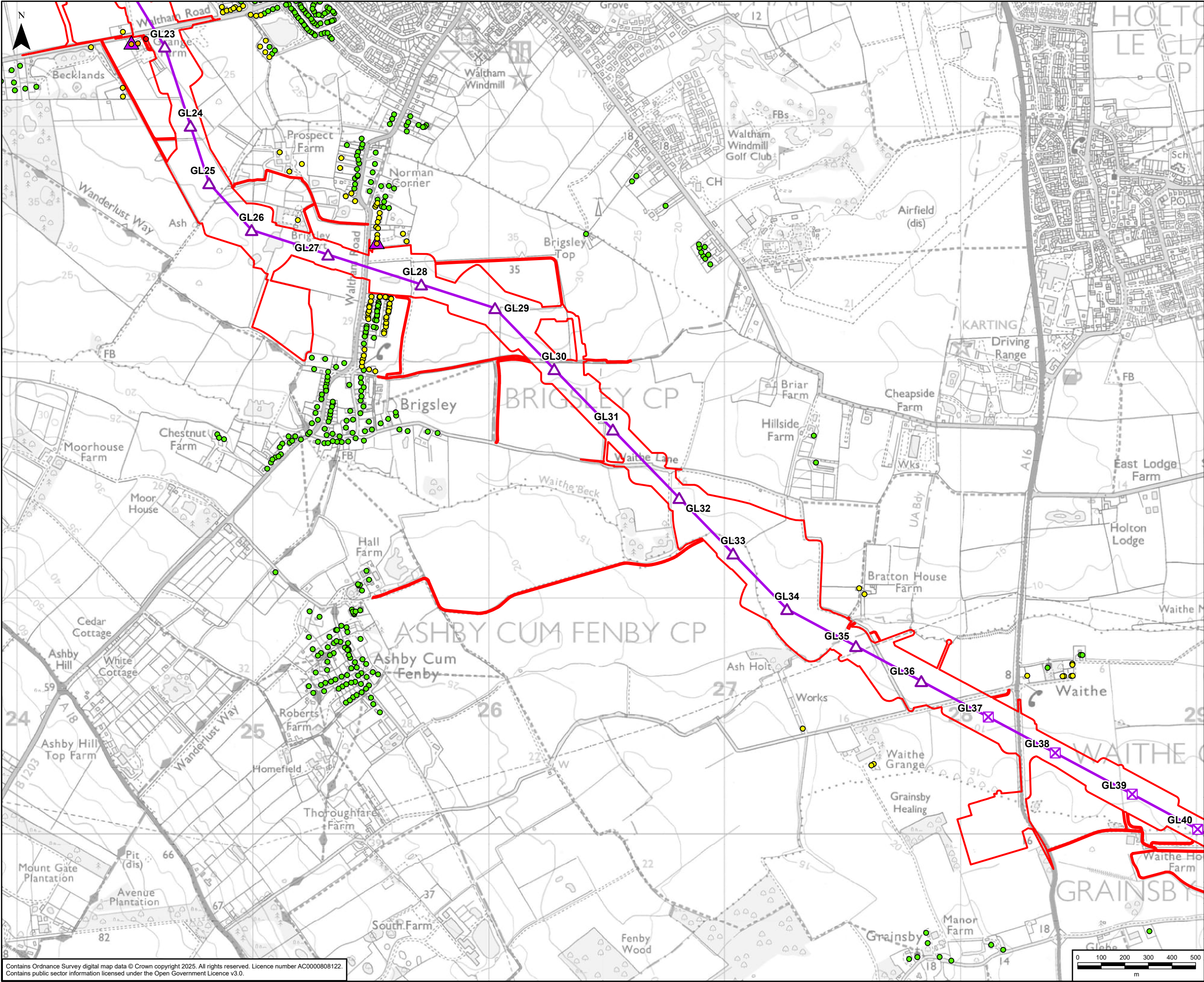
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line

Construction Noise Levels

- Negligible
- Small
- Medium
- Large

Construction Noise Assessment

- Significant Adverse Effect - Residential

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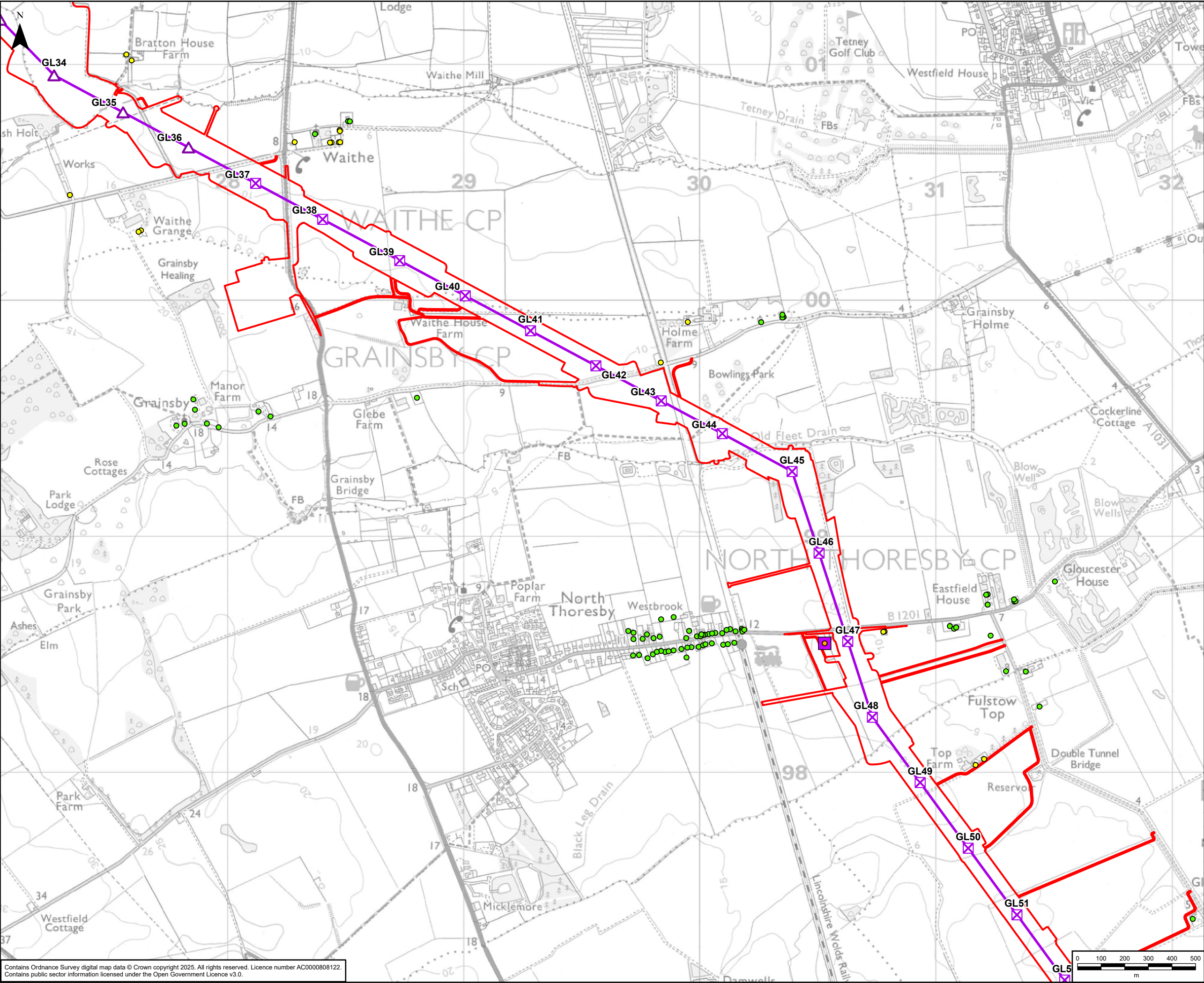
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line

Construction Noise Levels

- Negligible
- Small
- Medium

Construction Noise Assessment

- Significant Adverse Effect - Non-Residential

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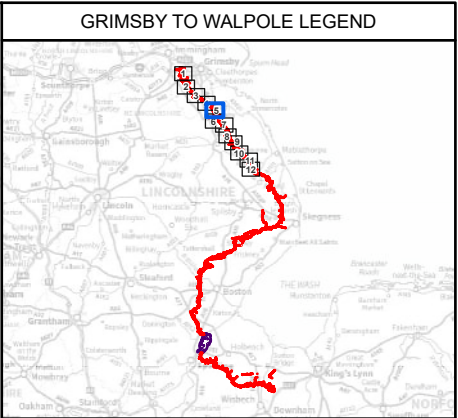
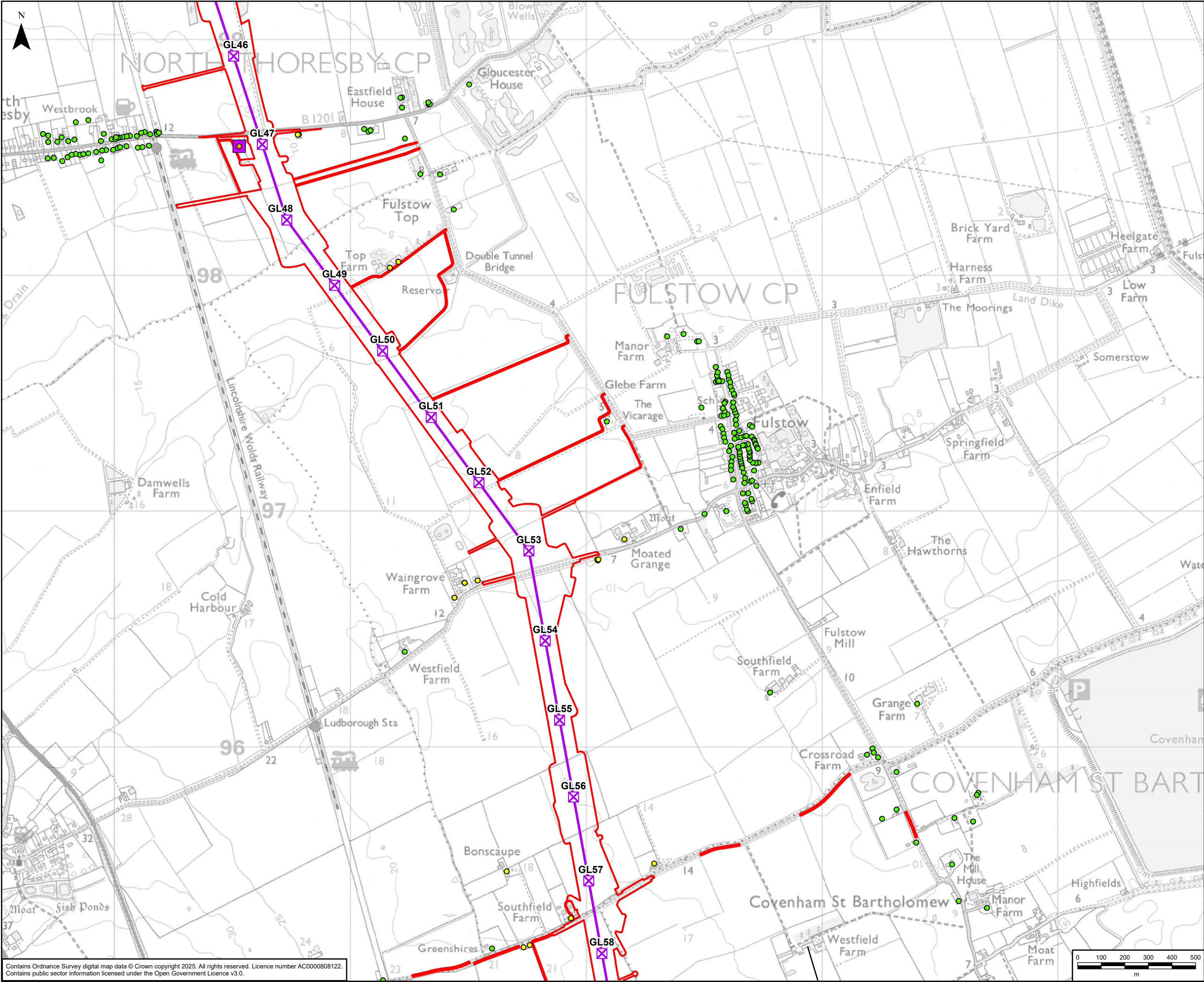
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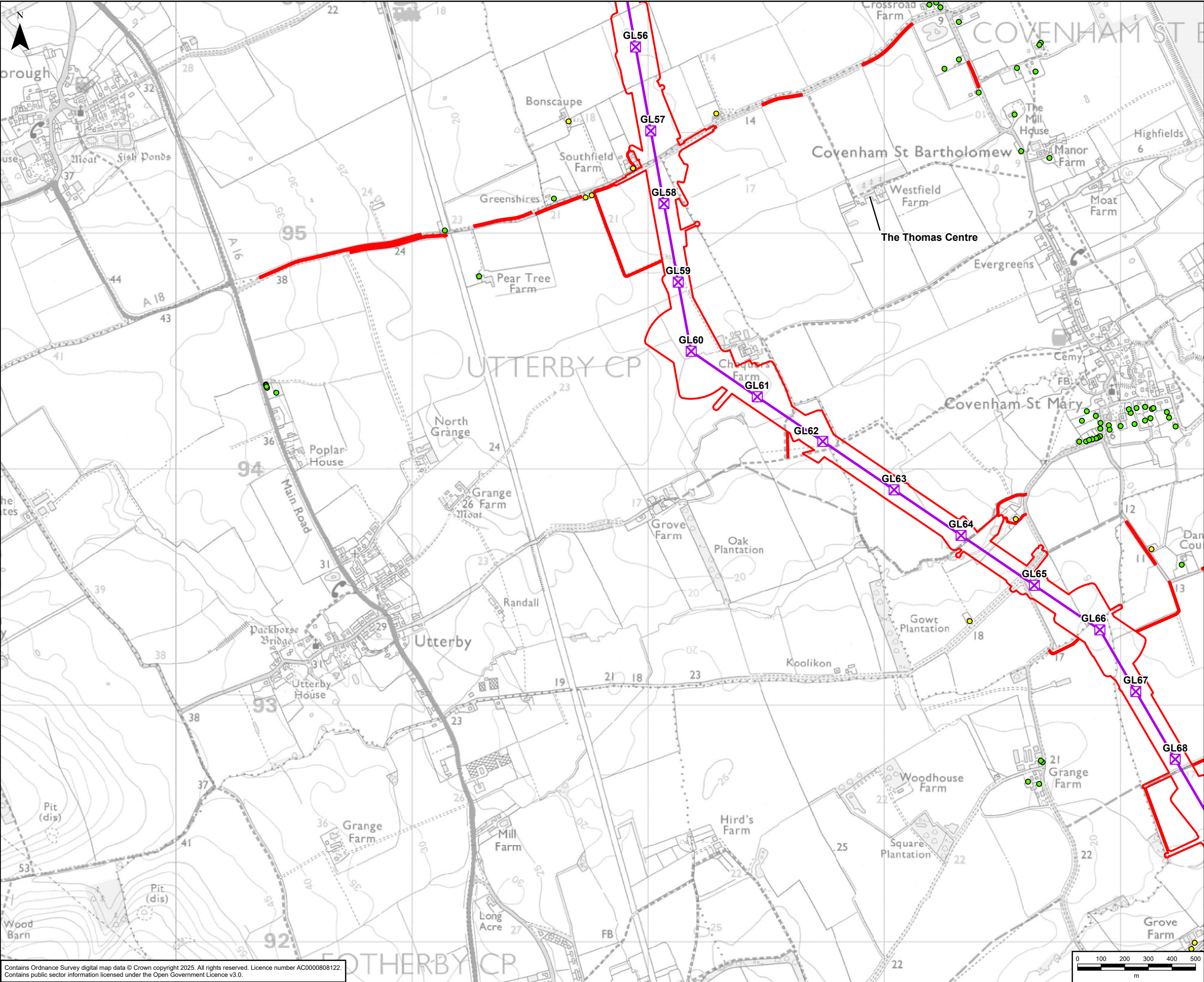
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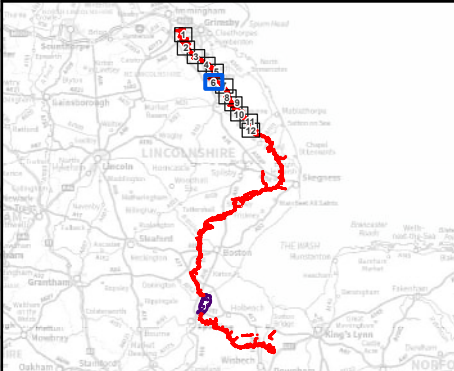
- Legend
- Draft Order Limits
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Noise Levels
- Negligible
 - Small
 - Medium
- Construction Noise Assessment
- Significant Adverse Effect - Non-Residential

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GRIMSBY TO WALPOLE LEGEND



Legend

Draft Order Limits

Indicative New Lattice Pylon

Indicative New Overhead Line

Construction Noise Levels

Negligible

Small

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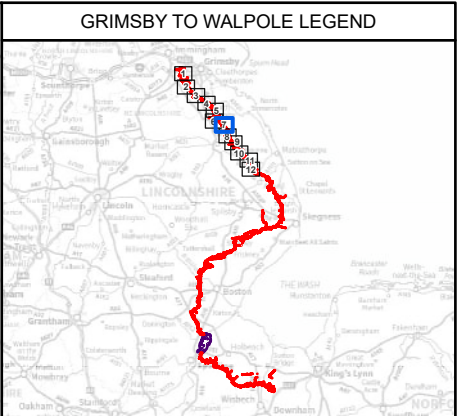
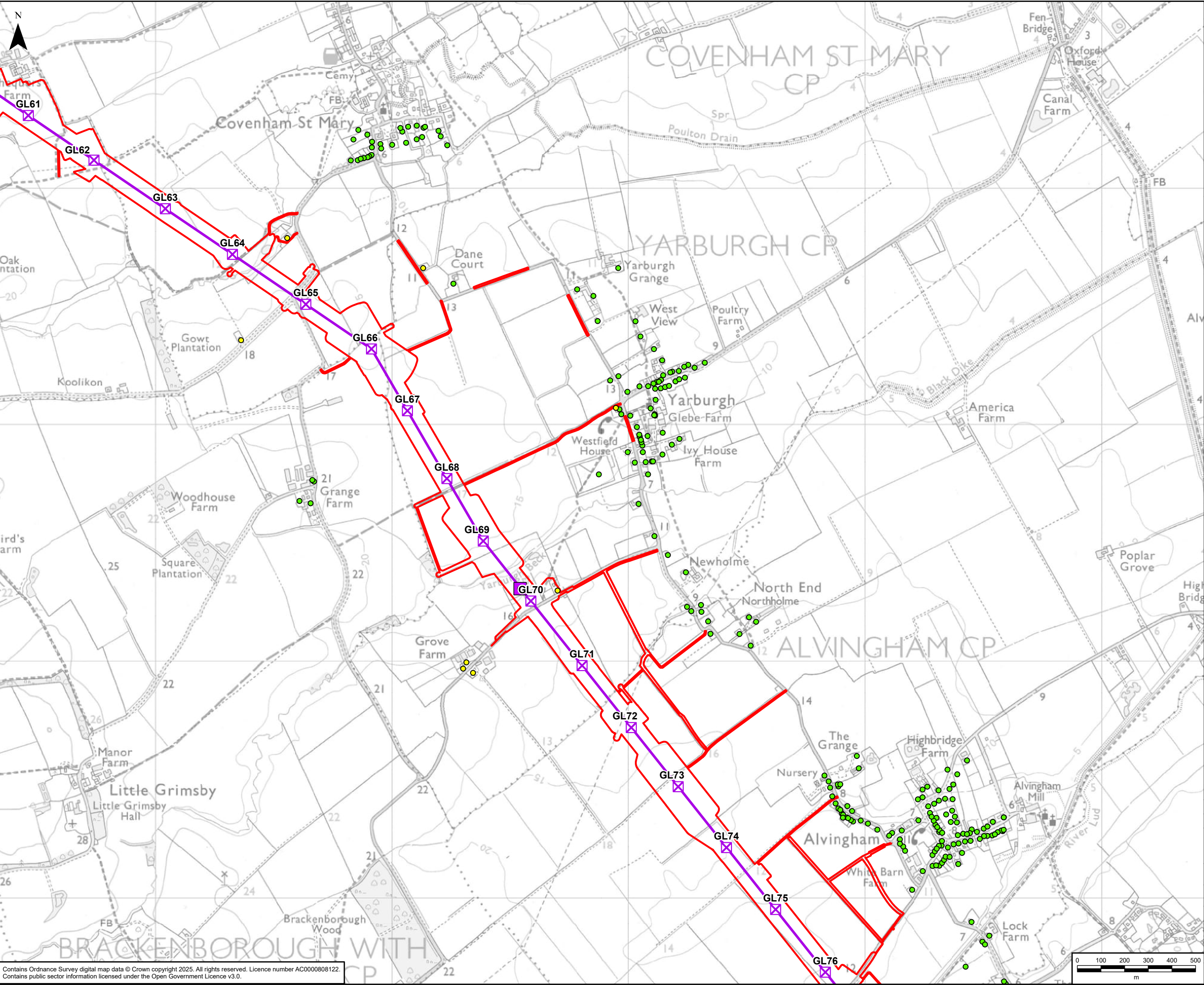
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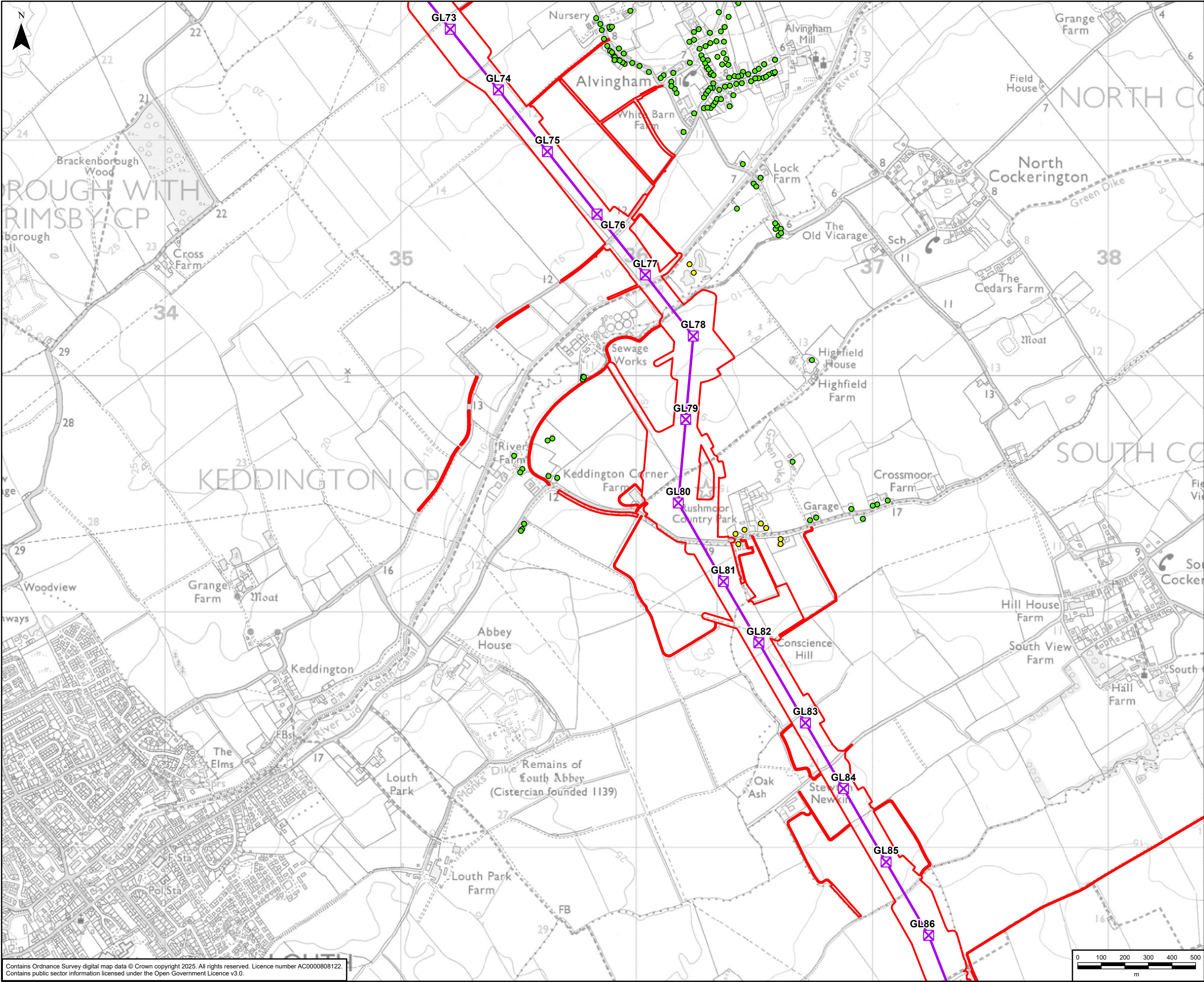


- Legend
- Draft Order Limits
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Noise Levels
- Negligible
 - Small
 - Large
- Construction Noise Assessment
- Significant Adverse Effect - Non-Residential

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GRIMSBY TO WALPOLE LEGEND

Legend

Draft Order Limits

Indicative New Lattice Pylon

Indicative New Overhead Line

Construction Noise Levels

Negligible

Small

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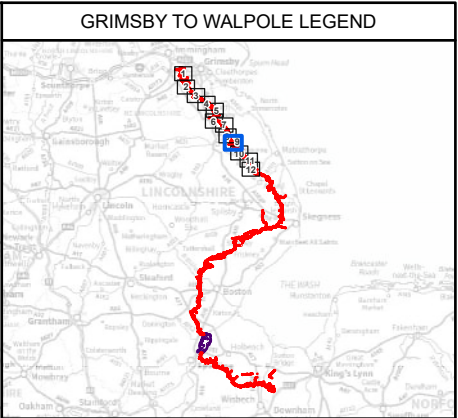
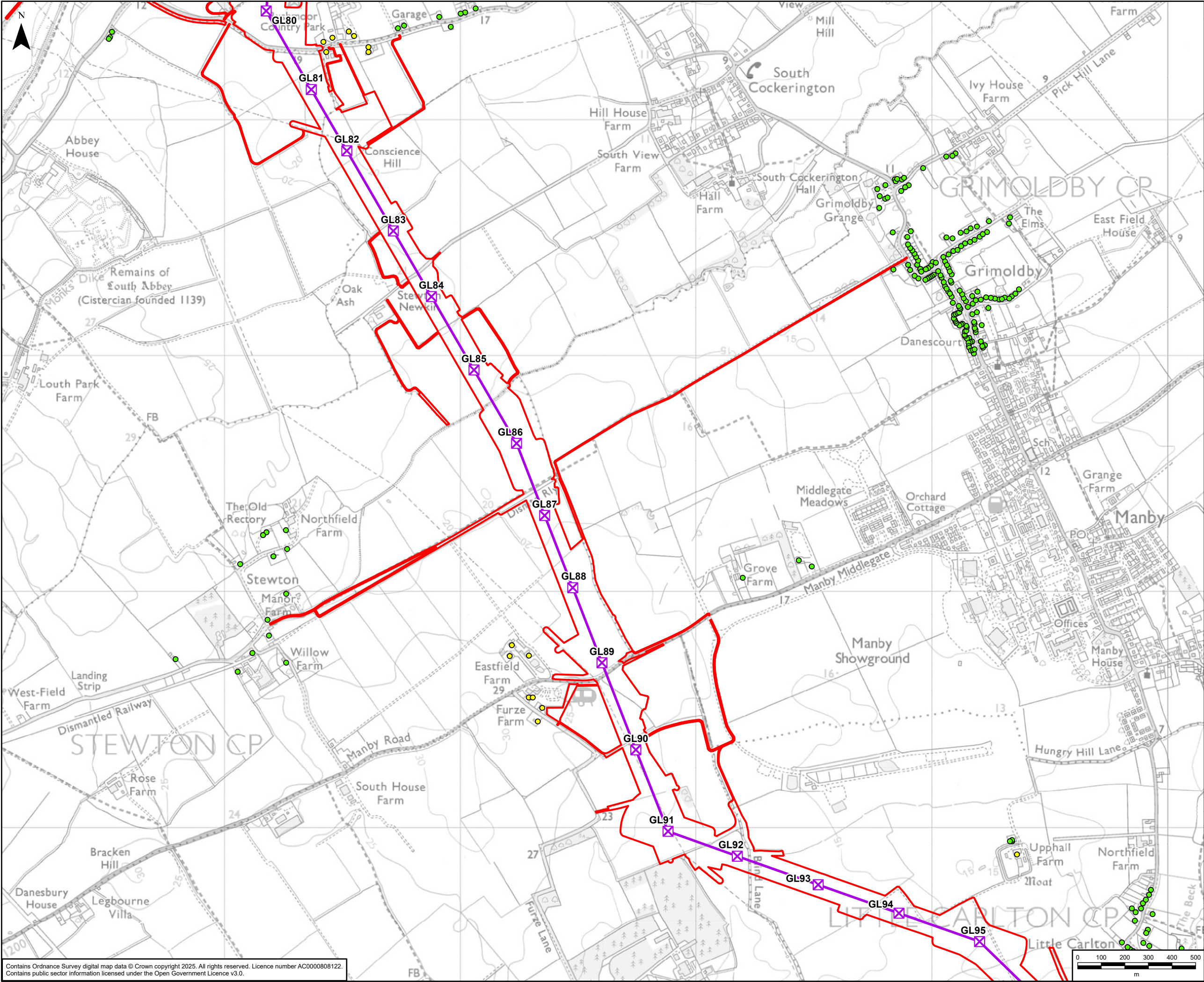
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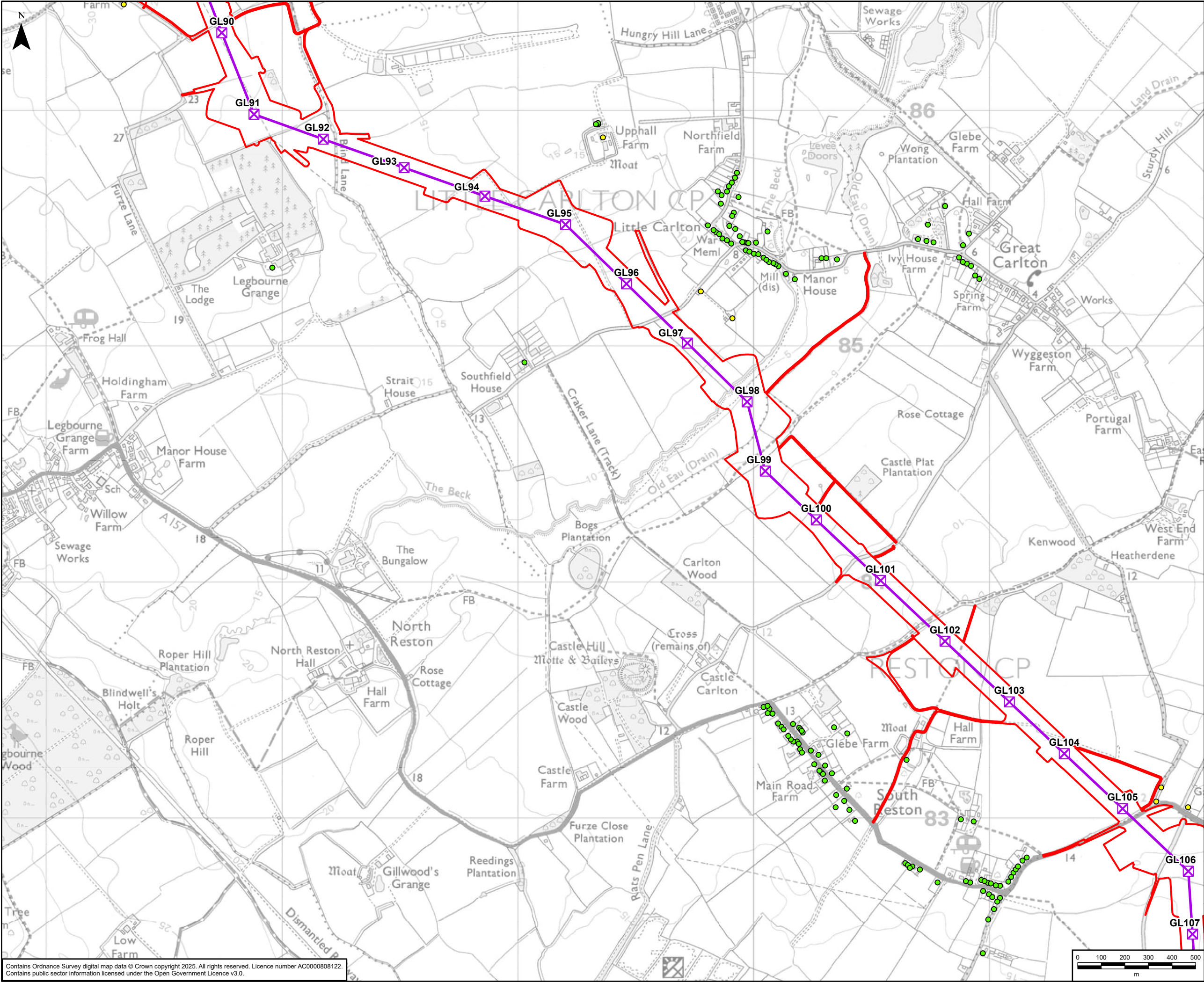
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- ✕ Indicative New Lattice Pylon
- Indicative New Overhead Line

Construction Noise Levels

- Negligible
- Small

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GRIMSBY TO WALPOLE LEGEND

Legend

Draft Order Limits

Indicative New Lattice Pylon

Indicative New Overhead Line

Construction Noise Levels

Negligible

Small

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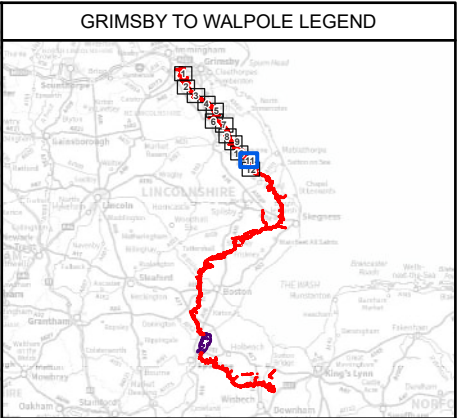
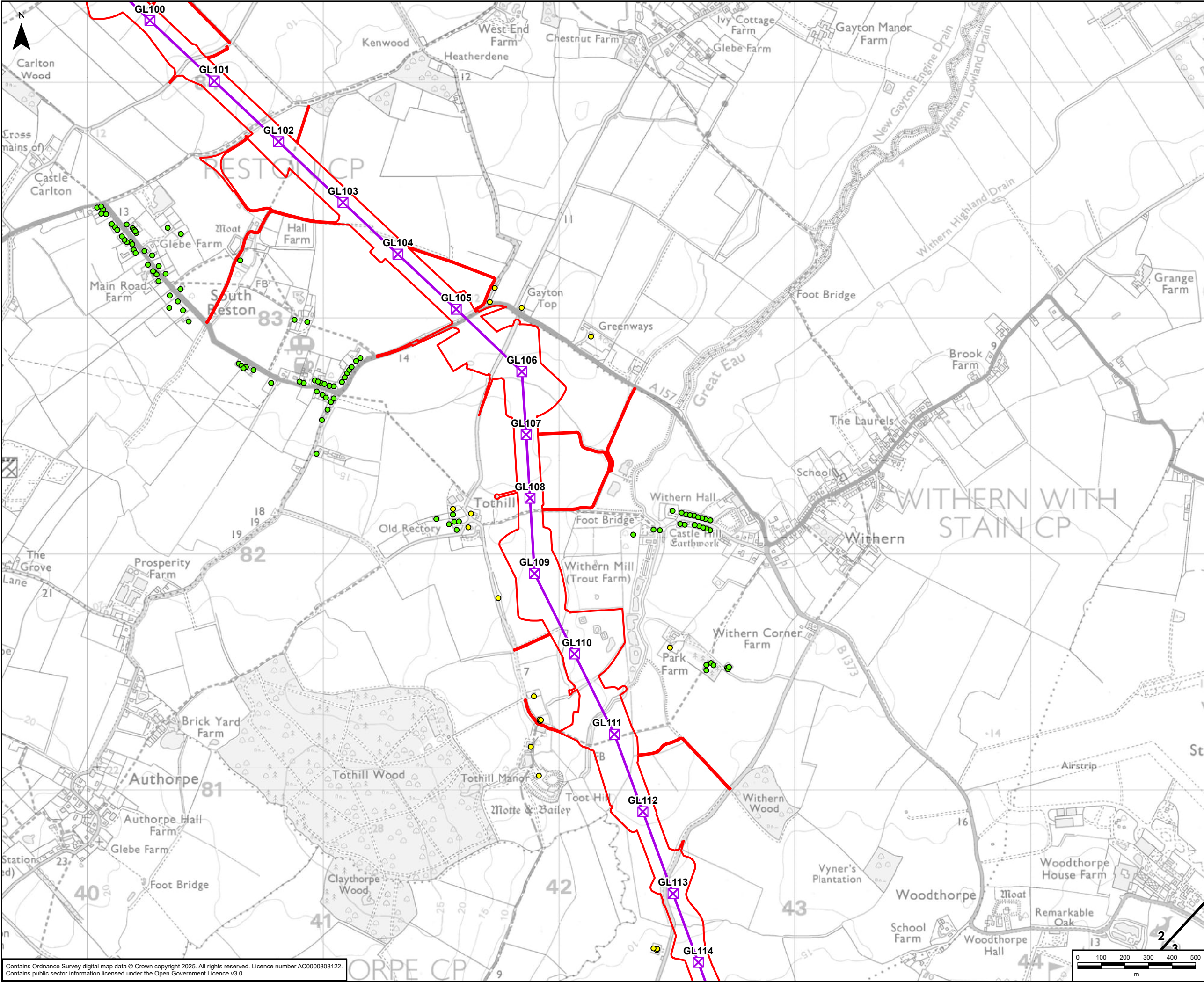
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GRIMSBY TO WALPOLE

FIGURE 10.3
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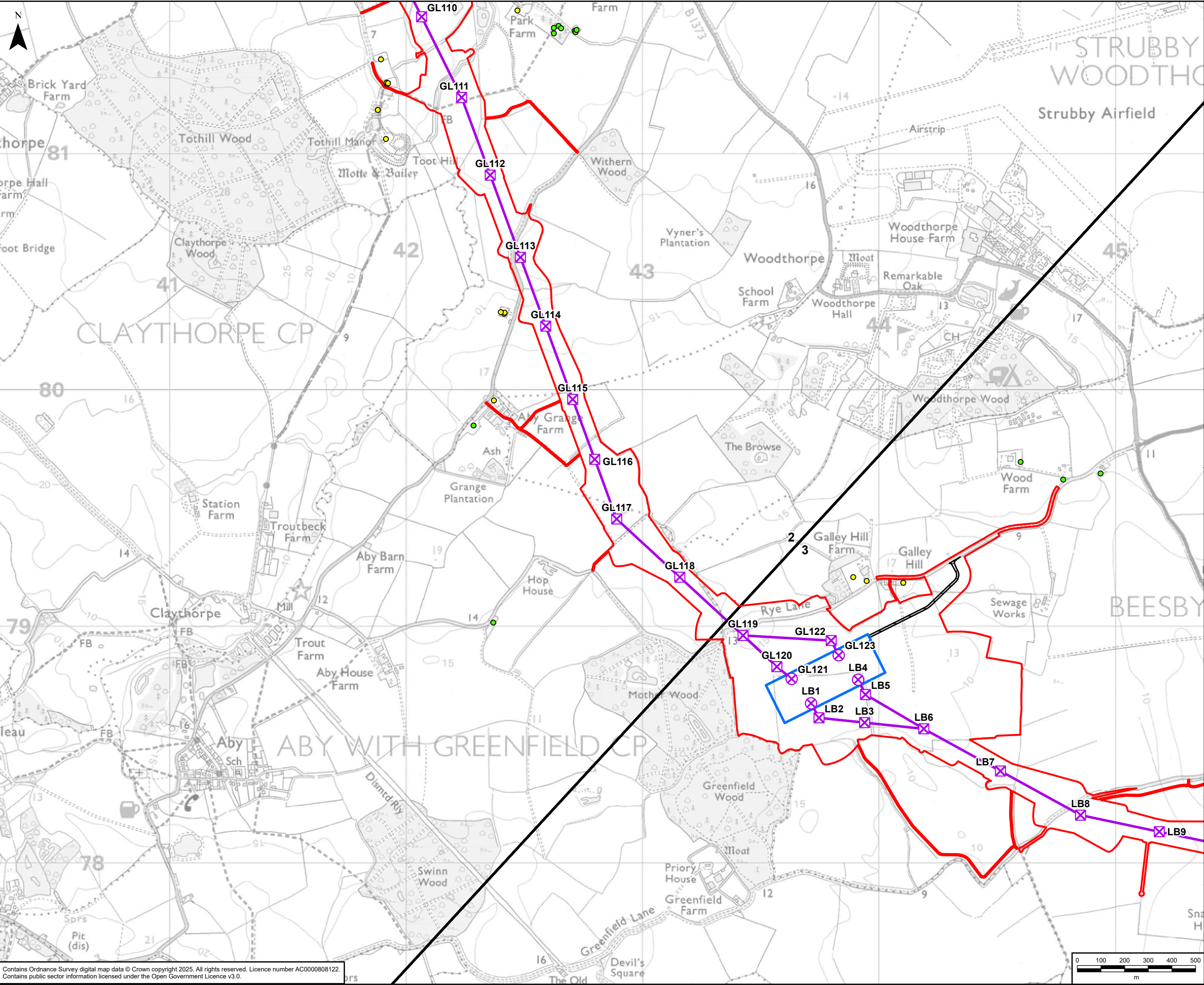


- Legend
- Draft Order Limits
 - Route Section Break
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Noise Levels
- Negligible
 - Small

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Overhead Line
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route

Construction Noise Levels

- Negligible
- Small

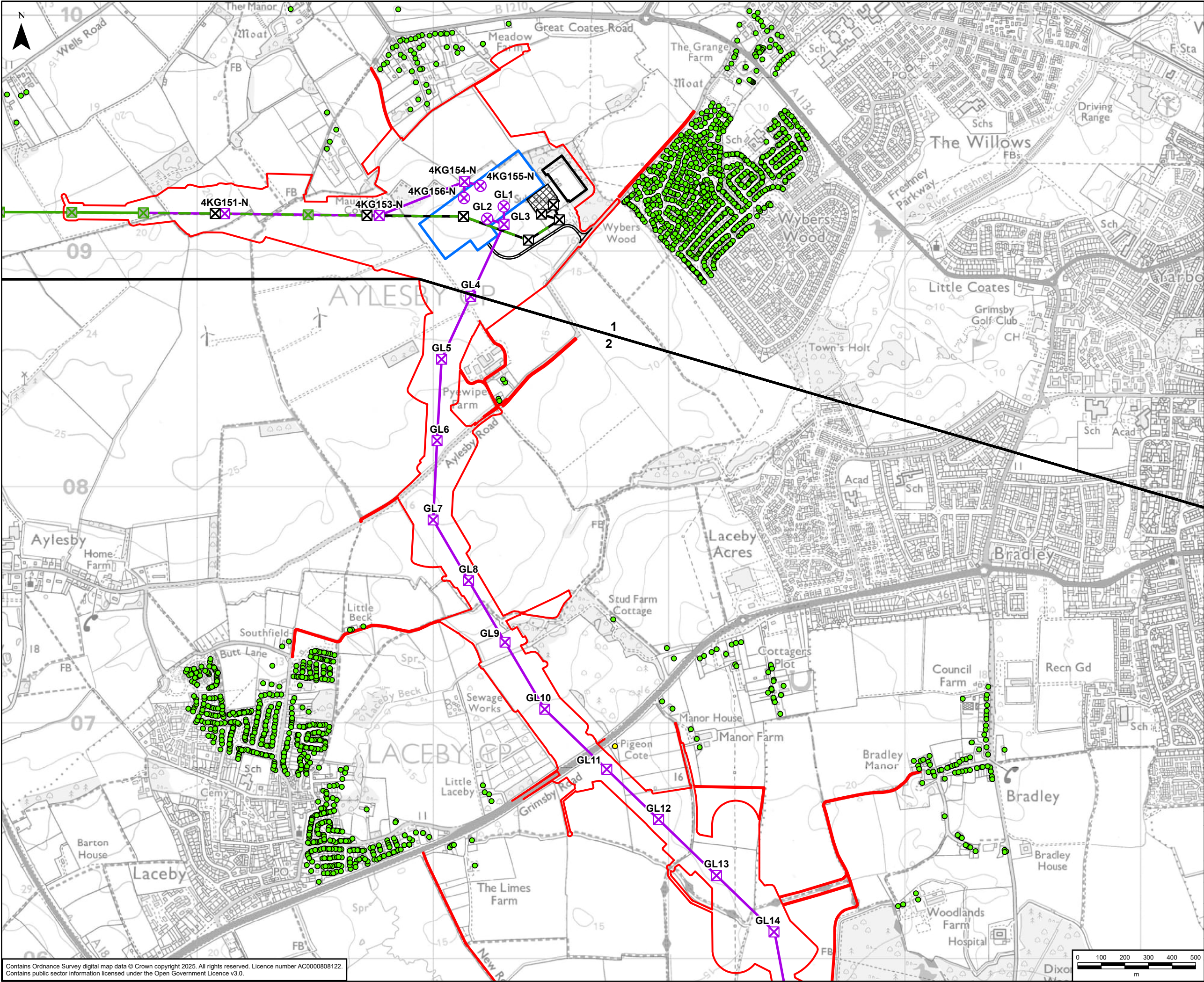
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- Indicative New Lattice Pylon
- Indicative New Gantry
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To Be Dismantled
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Existing Overhead Line - To Be Dismantled
- Existing Overhead Line - To Be Modified
- Existing Substation Boundary
- Existing Substation to be Demolished
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route

Construction Vibration Levels

- Negligible
- Small

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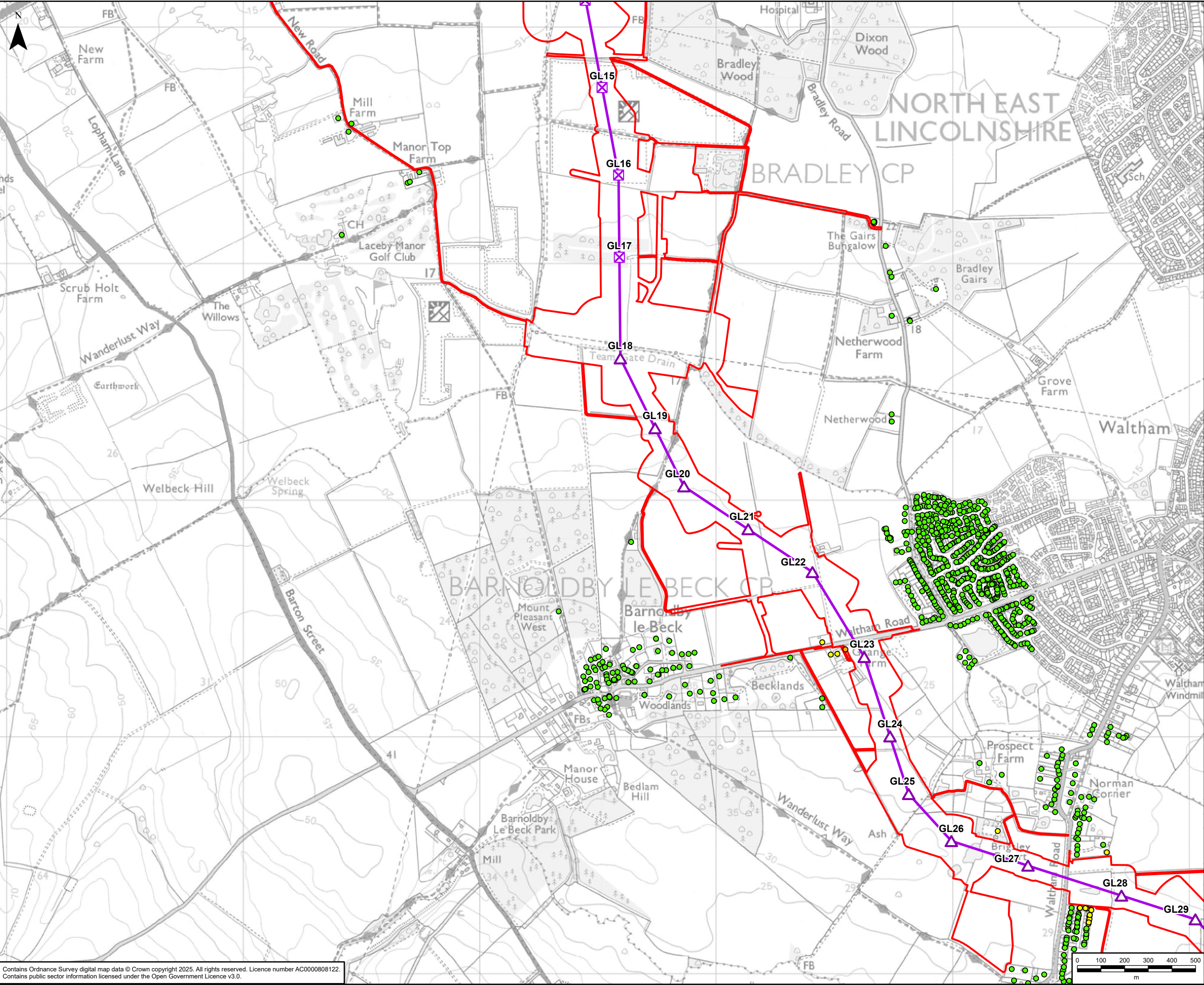
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Scheme: GRIMSBY TO WALPOLE

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line

Construction Vibration Levels

- Negligible
- Small
- Medium

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Rev	Date	Description	GIS	Chk	App

nationalgrid

Purpose: PEI REPORT - SECTION 2

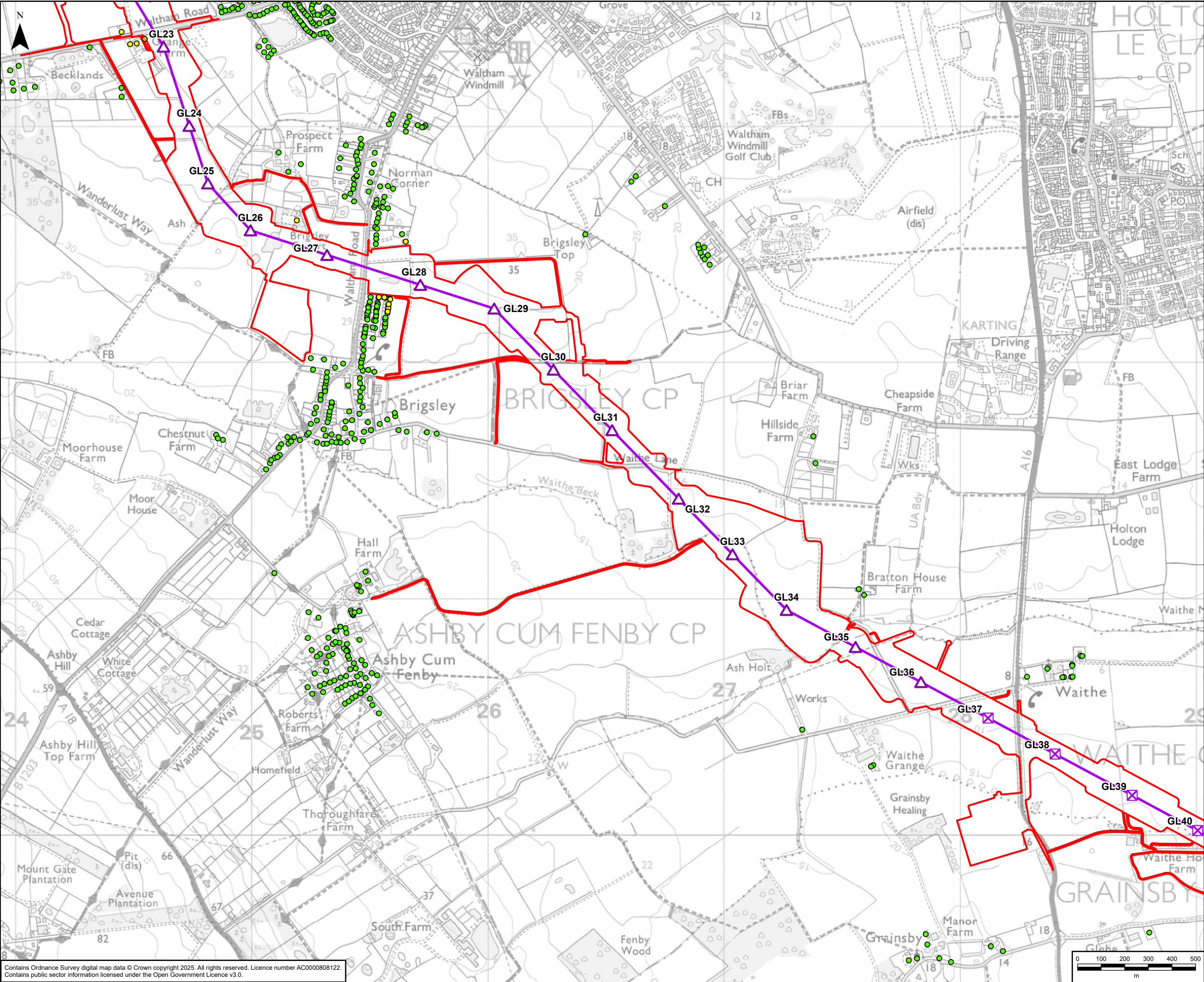
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0 100 200 300 400 500
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GRIMSBY TO WALPOLE LEGEND

Draft Order Limits

Indicative New Lattice Pylon

Indicative New Low Height Lattice Pylon

Indicative New Overhead Line

Construction Vibration Levels

Negligible

Small

Medium

A

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FIGURE 10.4
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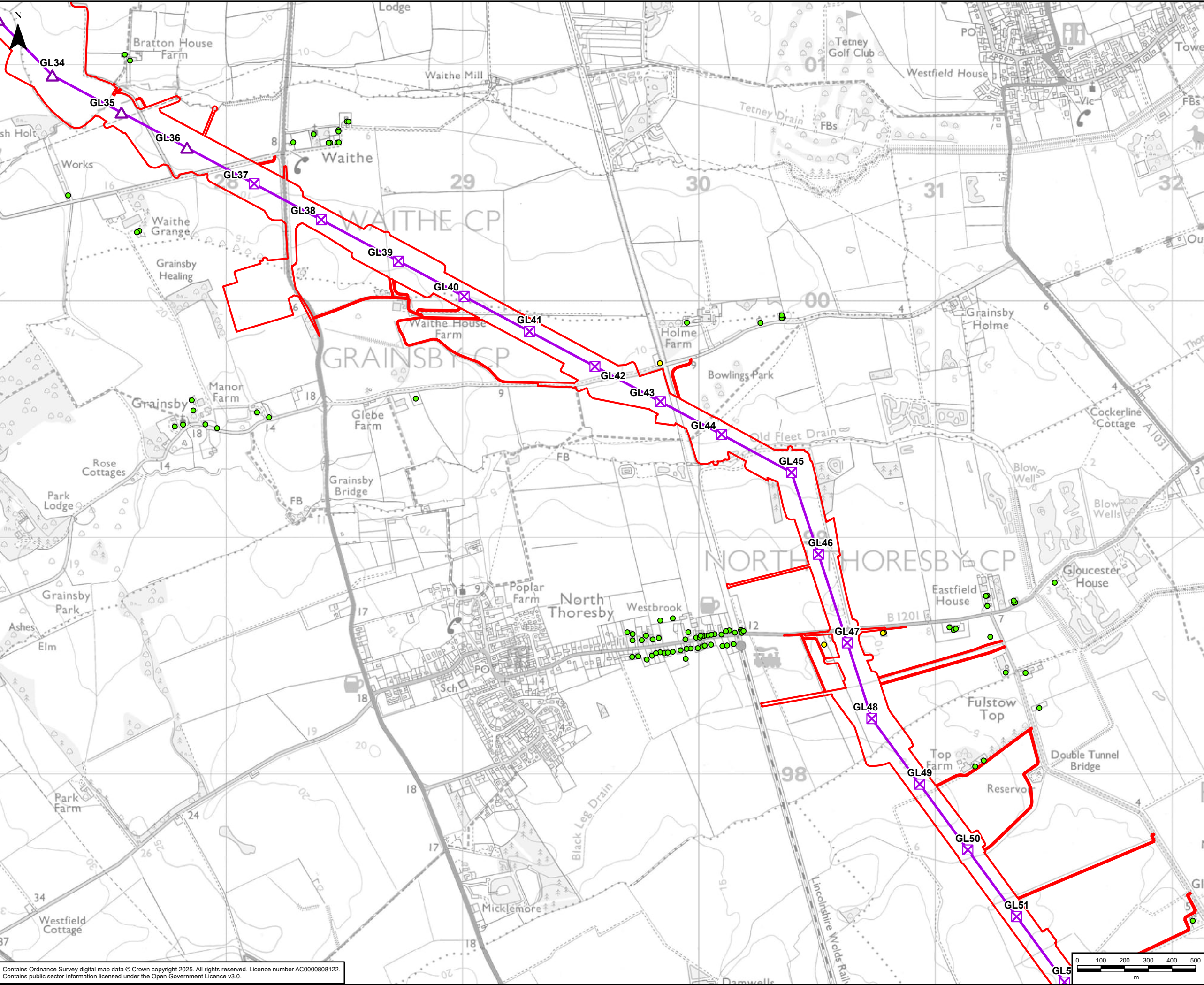
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line

Construction Vibration Levels

- Negligible
- Small

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GRIMSBY TO WALPOLE

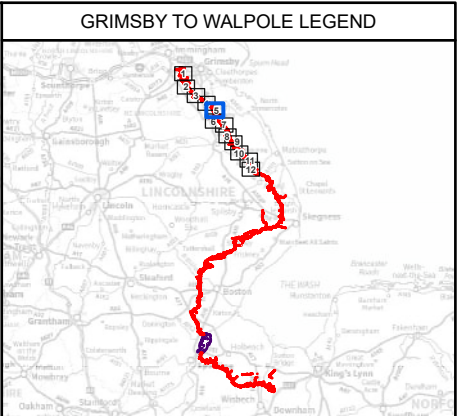
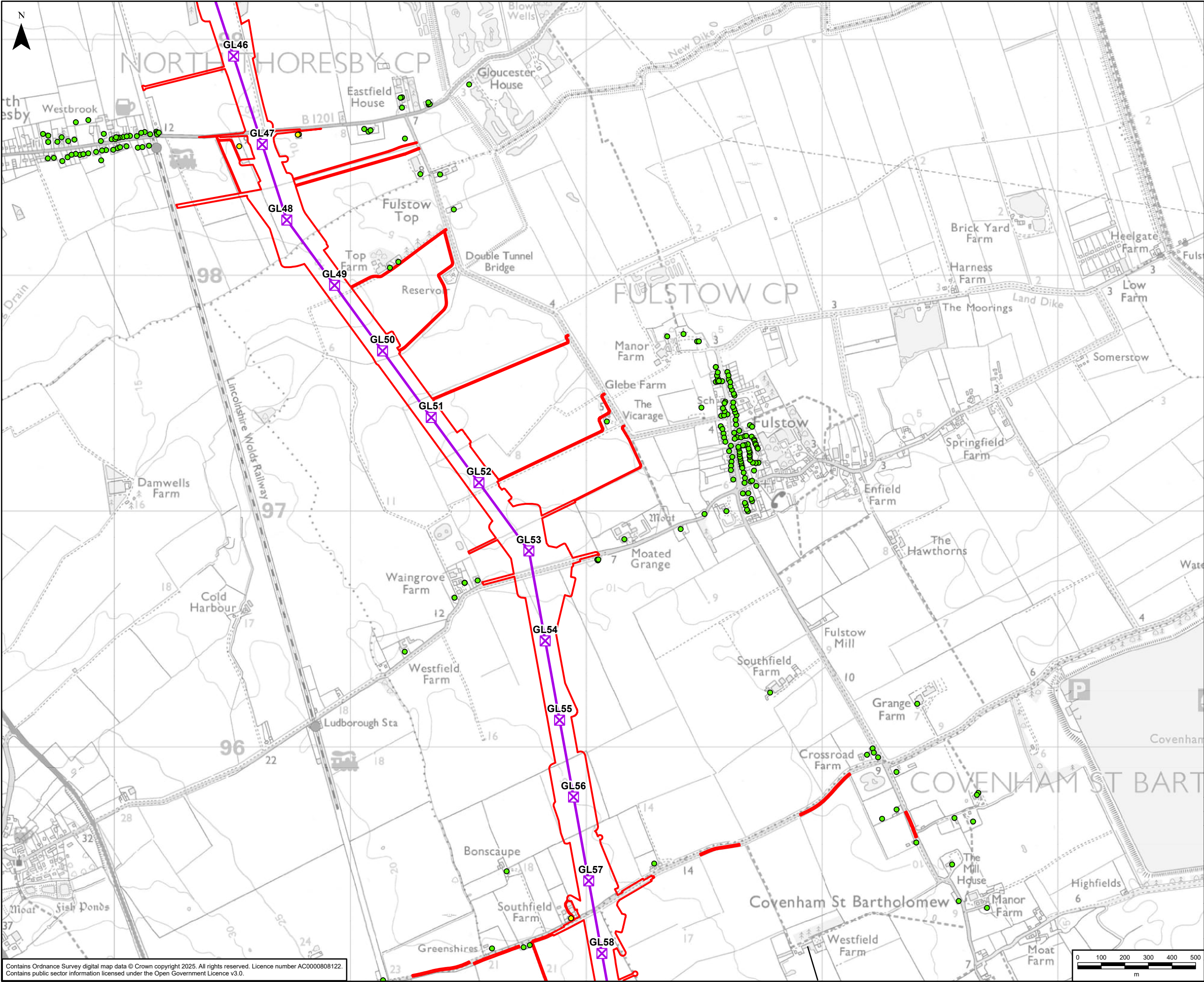
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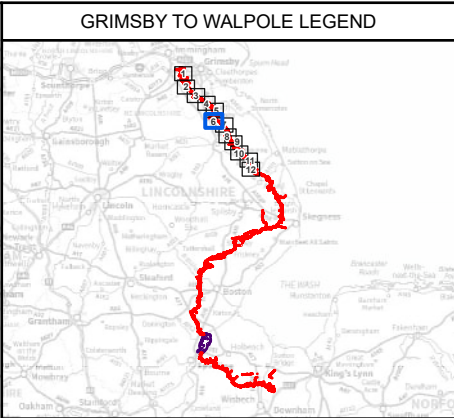
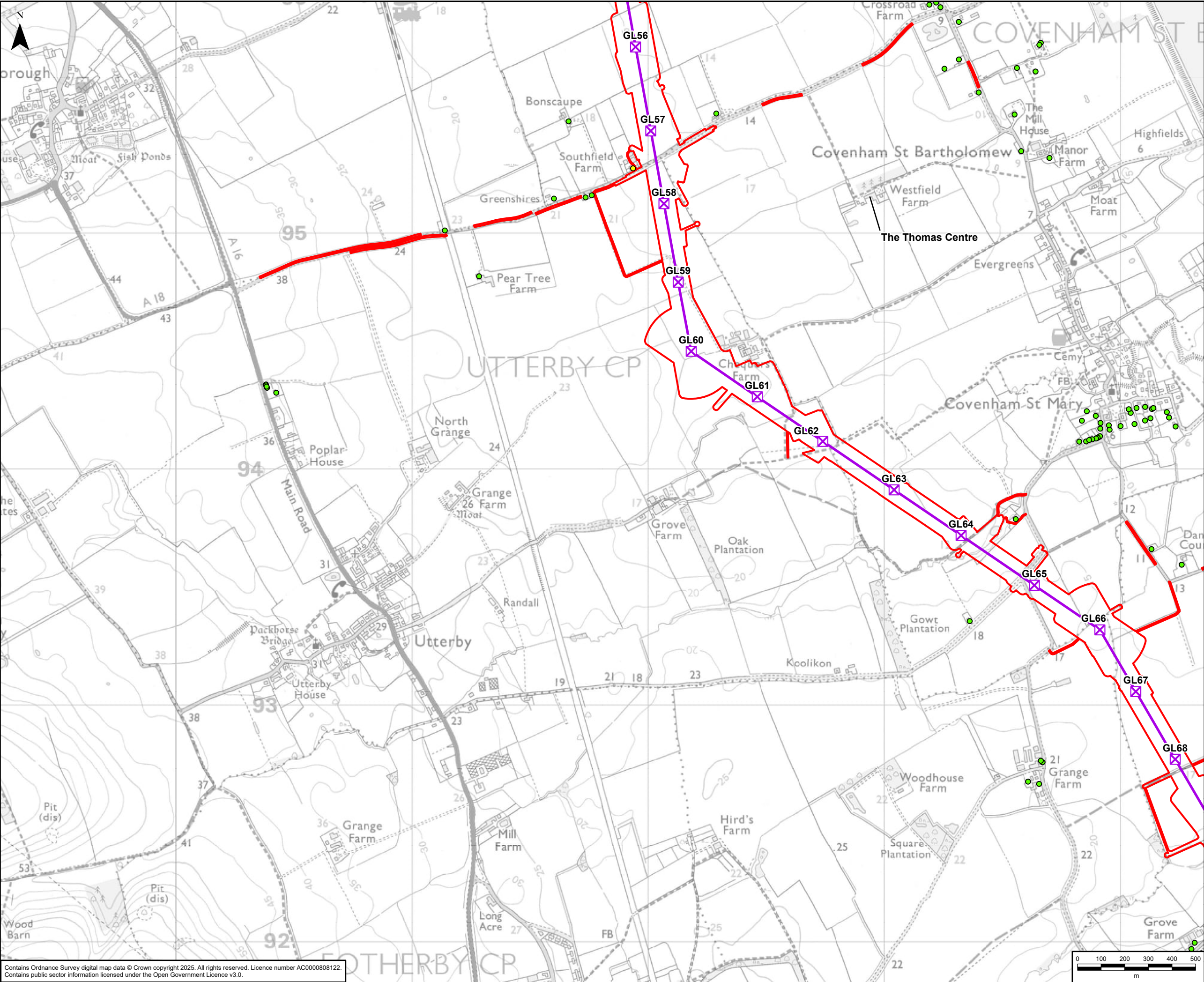
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- Legend
- Draft Order Limits
 - X Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Vibration Levels
- Negligible
 - Small

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Scheme:		GRIMSBY TO WALPOLE			
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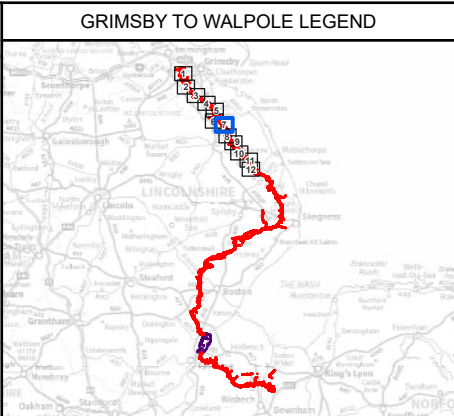
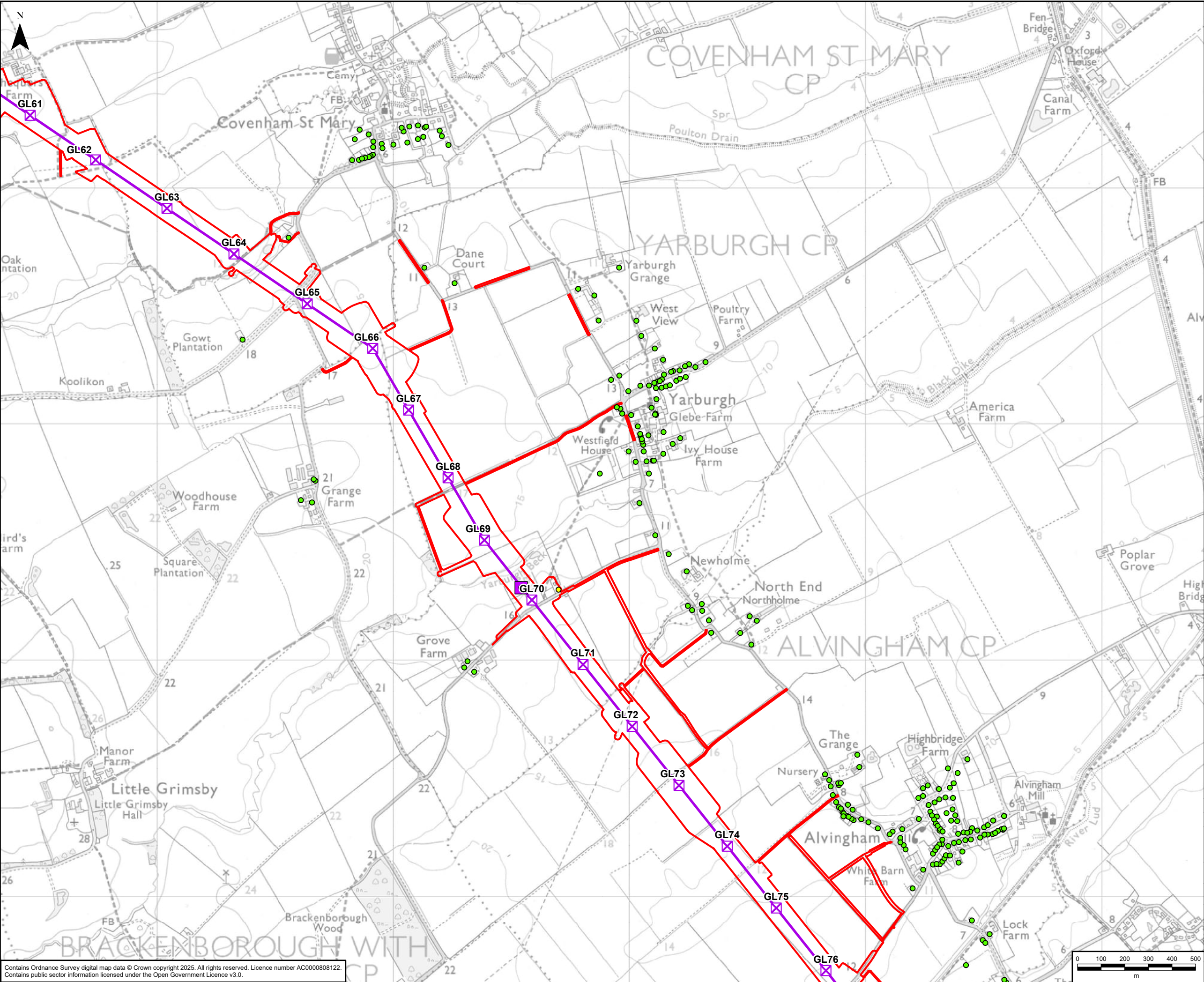
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- Legend
- Draft Order Limits
 - ✕ Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Vibration Levels
- Negligible
 - Small

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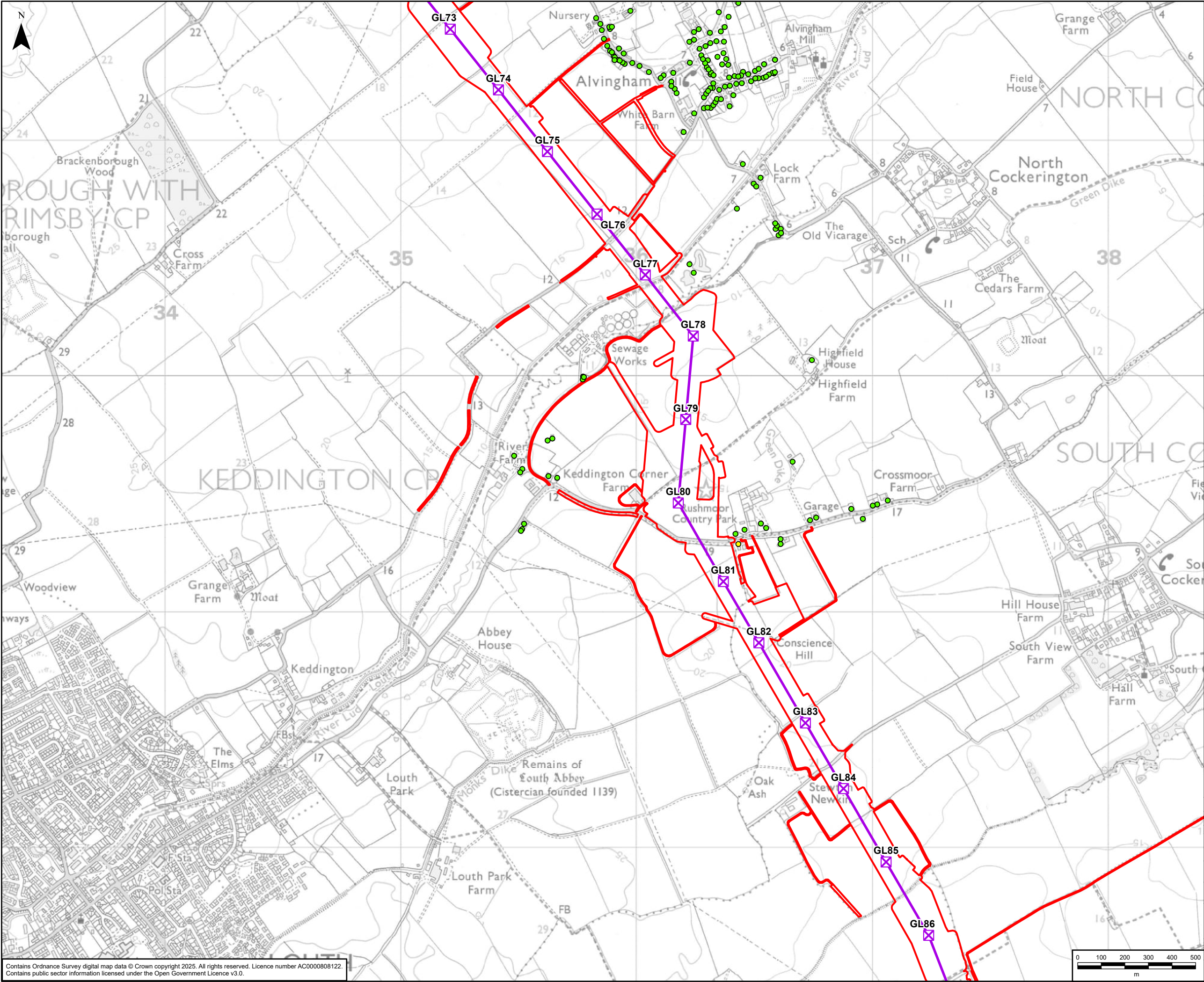


- Legend
- Draft Order Limits
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Vibration Levels
- Negligible
 - Small
 - Medium
- Construction Vibration Assessment
- Significant Adverse Effect - Non-Residential

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FIGURE	1:15,000	A3	7 OF 12	A	



GRIMSBY TO WALPOLE LEGEND

Legend

Draft Order Limits

Indicative New Lattice Pylon

Indicative New Overhead Line

Construction Vibration Levels

Negligible

Small

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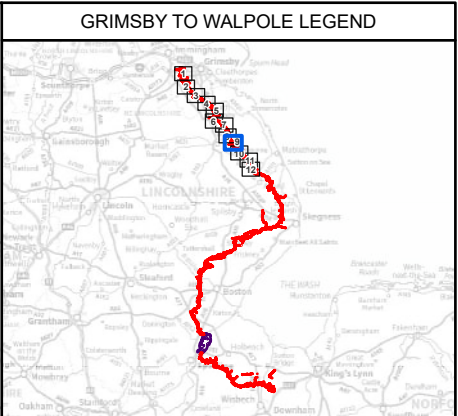
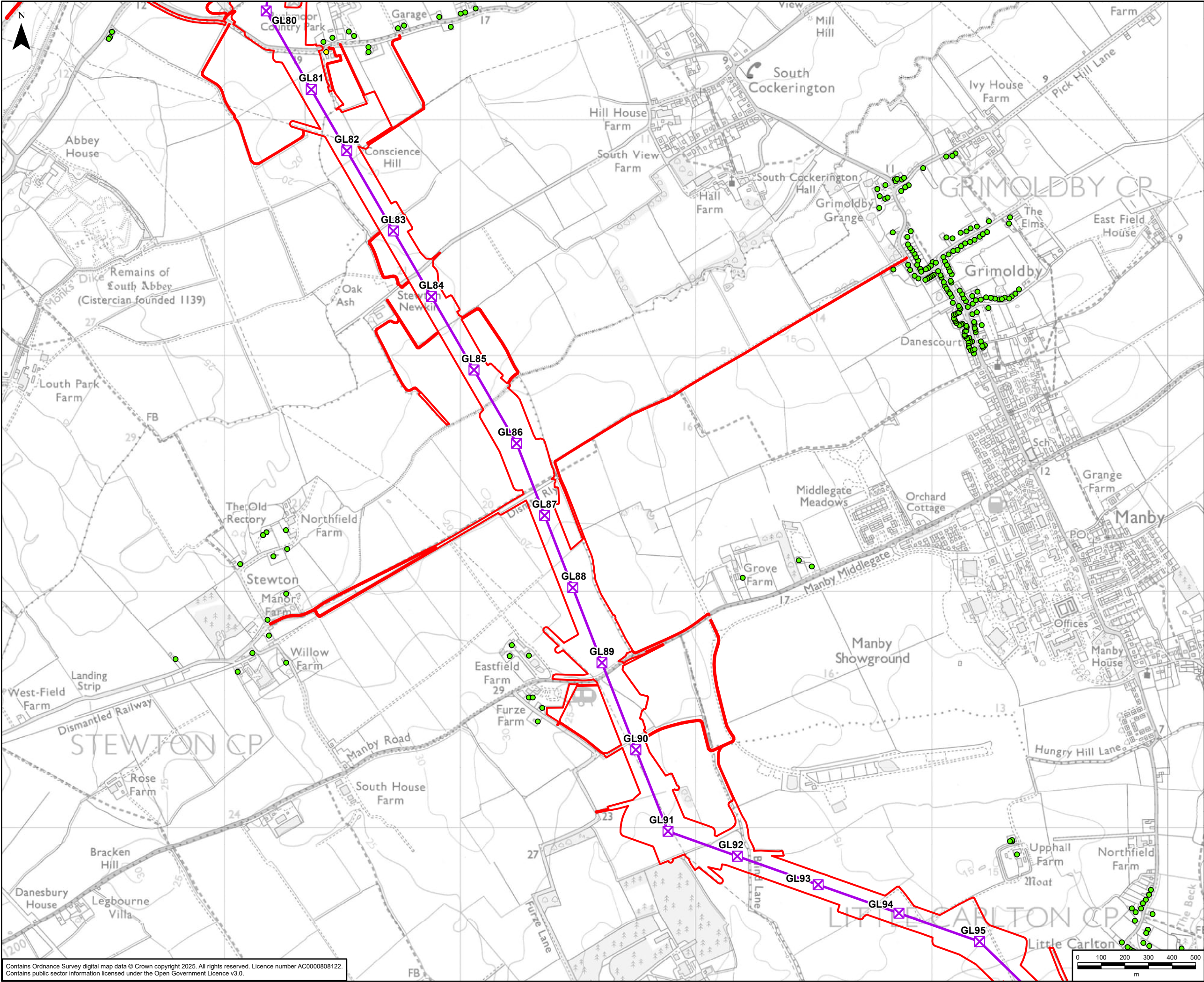
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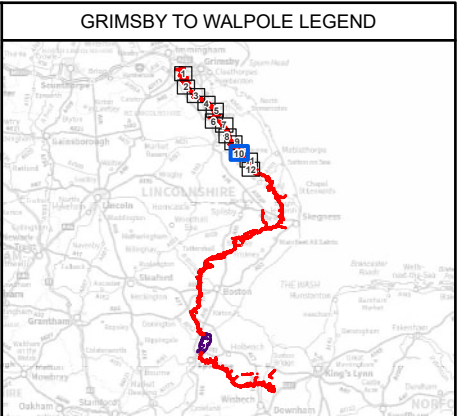
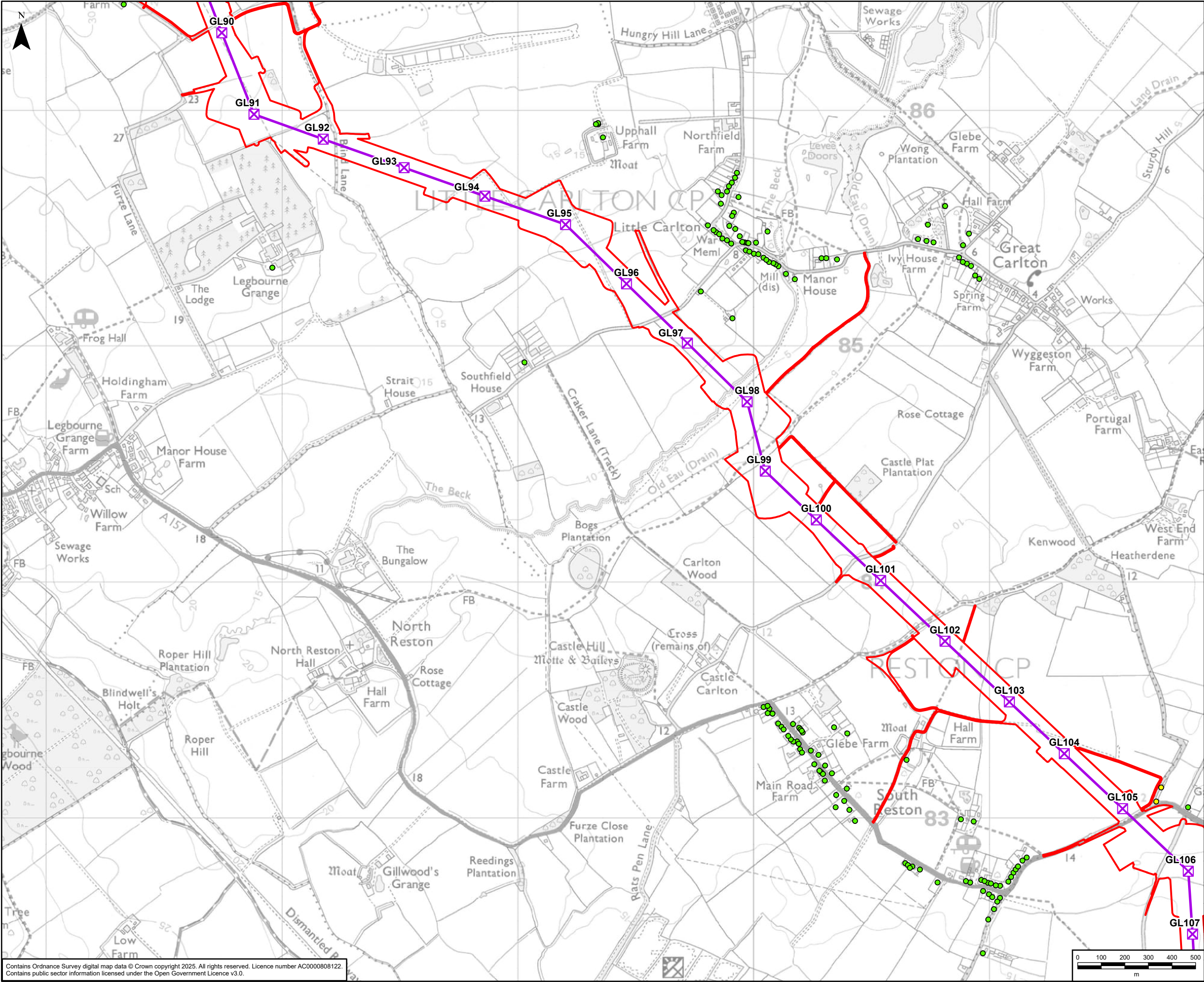
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- Legend
- Draft Order Limits
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Vibration Levels
- Negligible
 - Small

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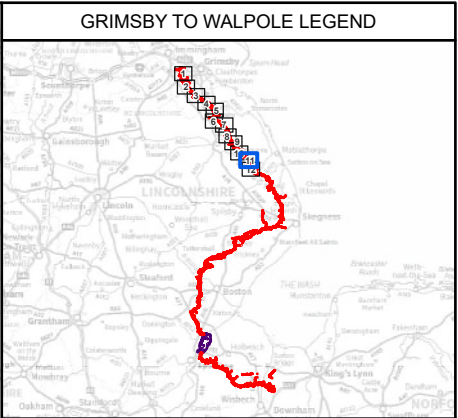
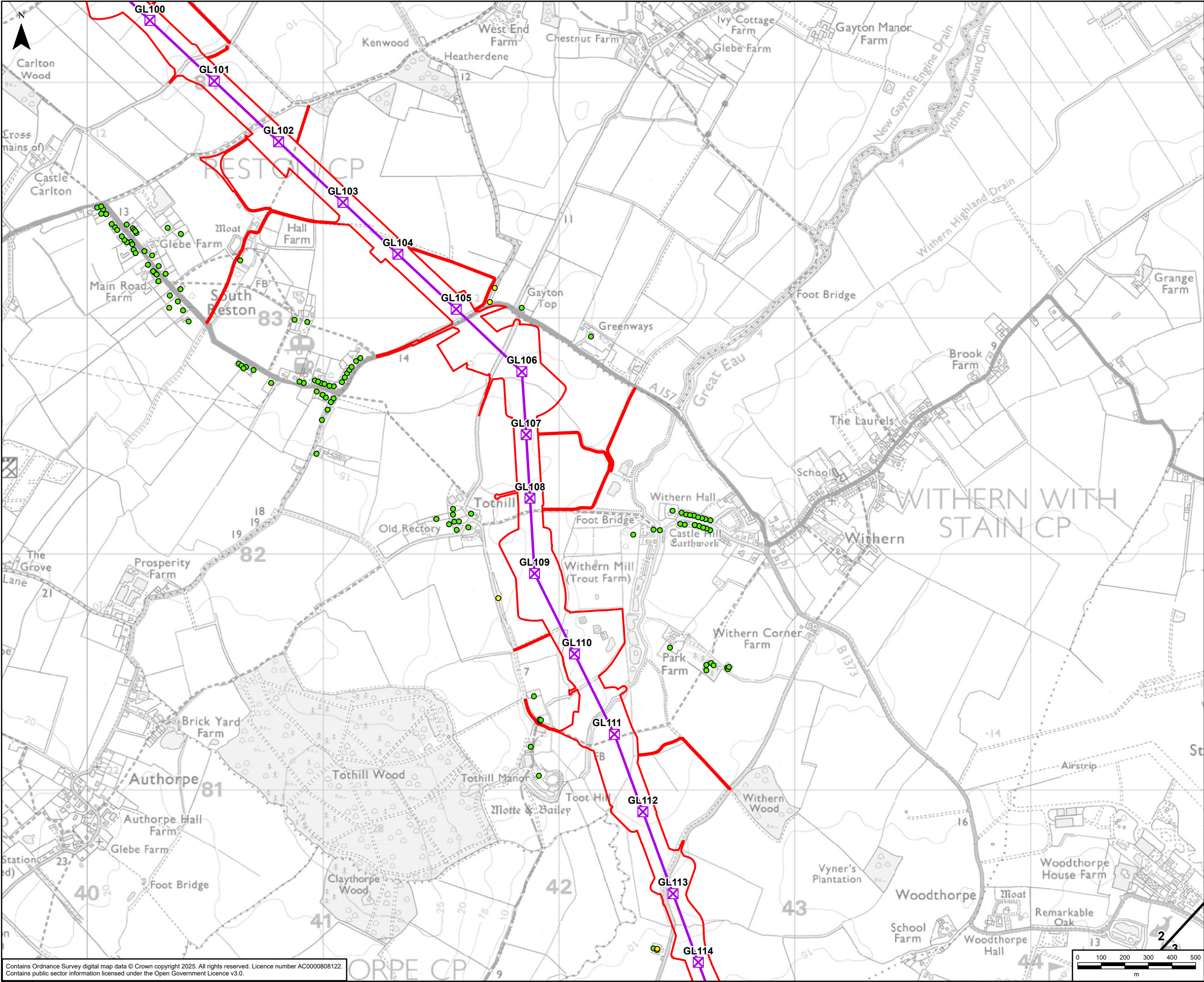
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- Legend
- Draft Order Limits
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Vibration Levels
- Negligible
 - Small

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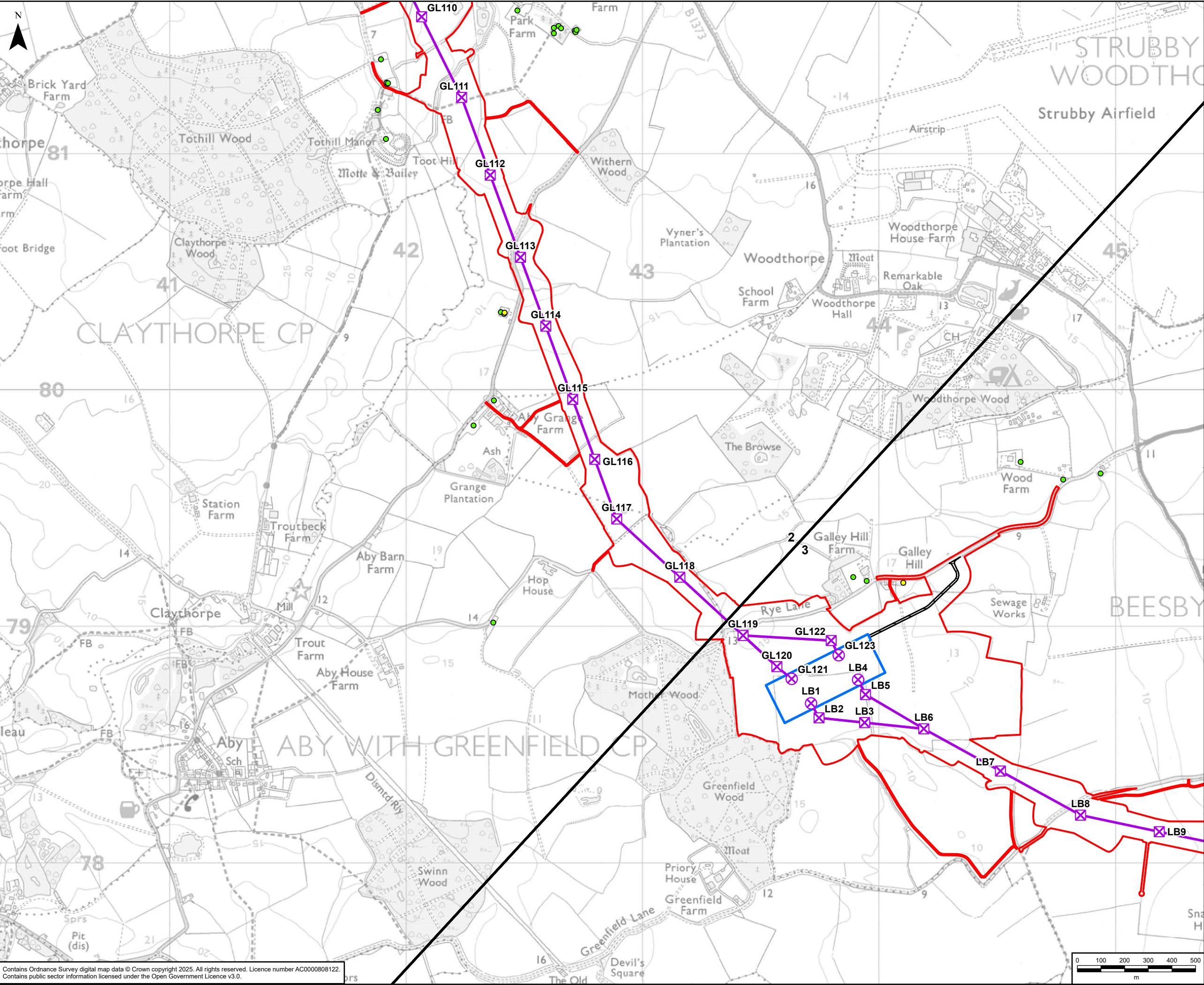


- Legend
- Draft Order Limits
 - Route Section Break
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Vibration Levels
- Negligible
 - Small

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Overhead Line
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route

Construction Vibration Levels

- Negligible
- Small

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Purpose: PEI REPORT - SECTION 2

Scheme: GRIMSBY TO WALPOLE

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