

The Great Grid Upgrade

Grimsby to Walpole

Preliminary Environmental Information Report

Volume 2 Part B Section Specific Assessments

Section 4 New Lincolnshire Connection Substation B to Refined
Weston Marsh Substation Siting Zone

Chapter 10 Noise and Vibration

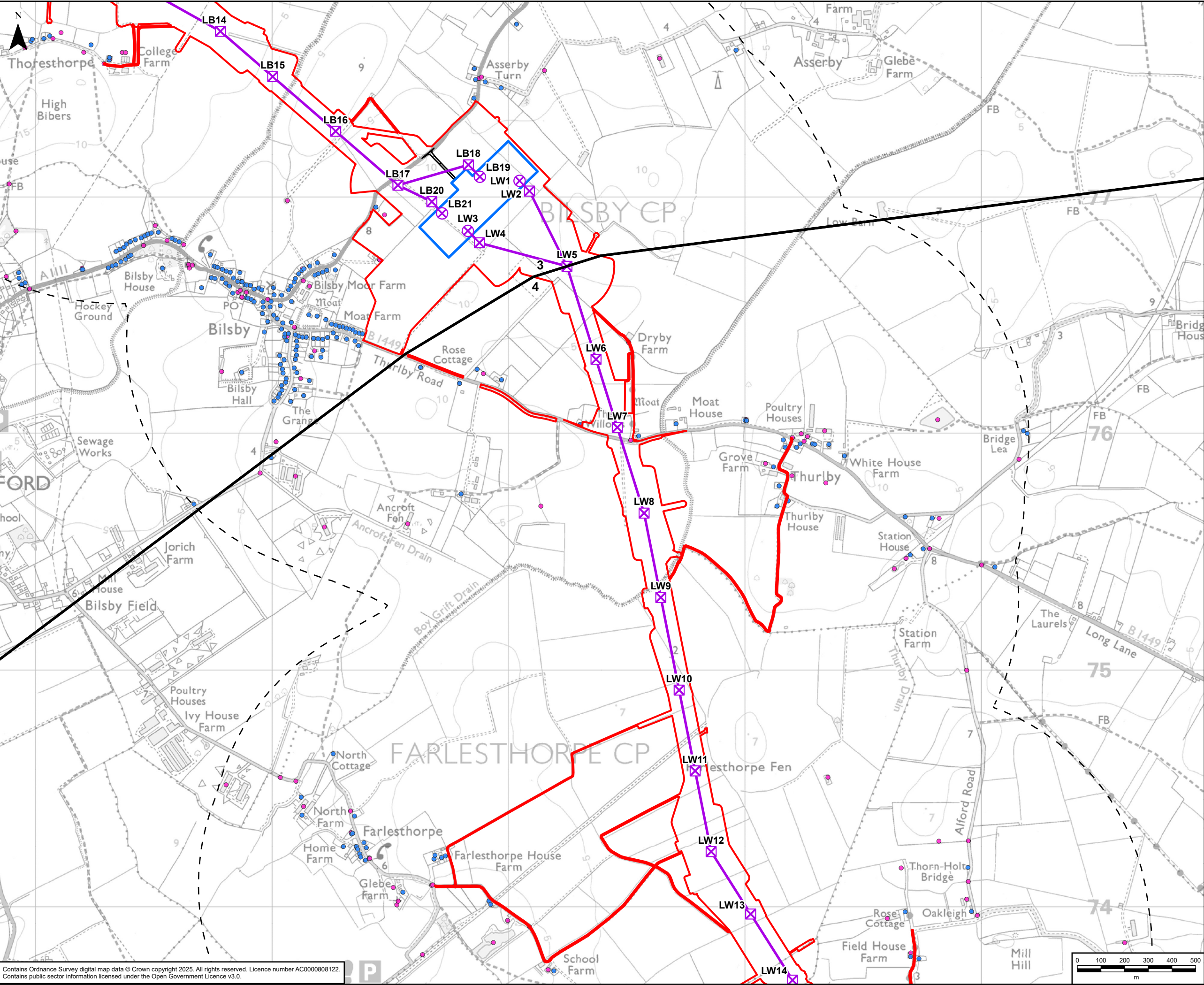
Figures

June 2025



Volume 2 Part B Section 4 Chapter 10 – Figure List

Figure number	Figure title
Figure 10.1	Noise and Vibration Study Area
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
- Indicative New Overhead Line
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route

Address Data

- Residential
- Non-Residential

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Rev	Date	Description	GIS	Chk	App

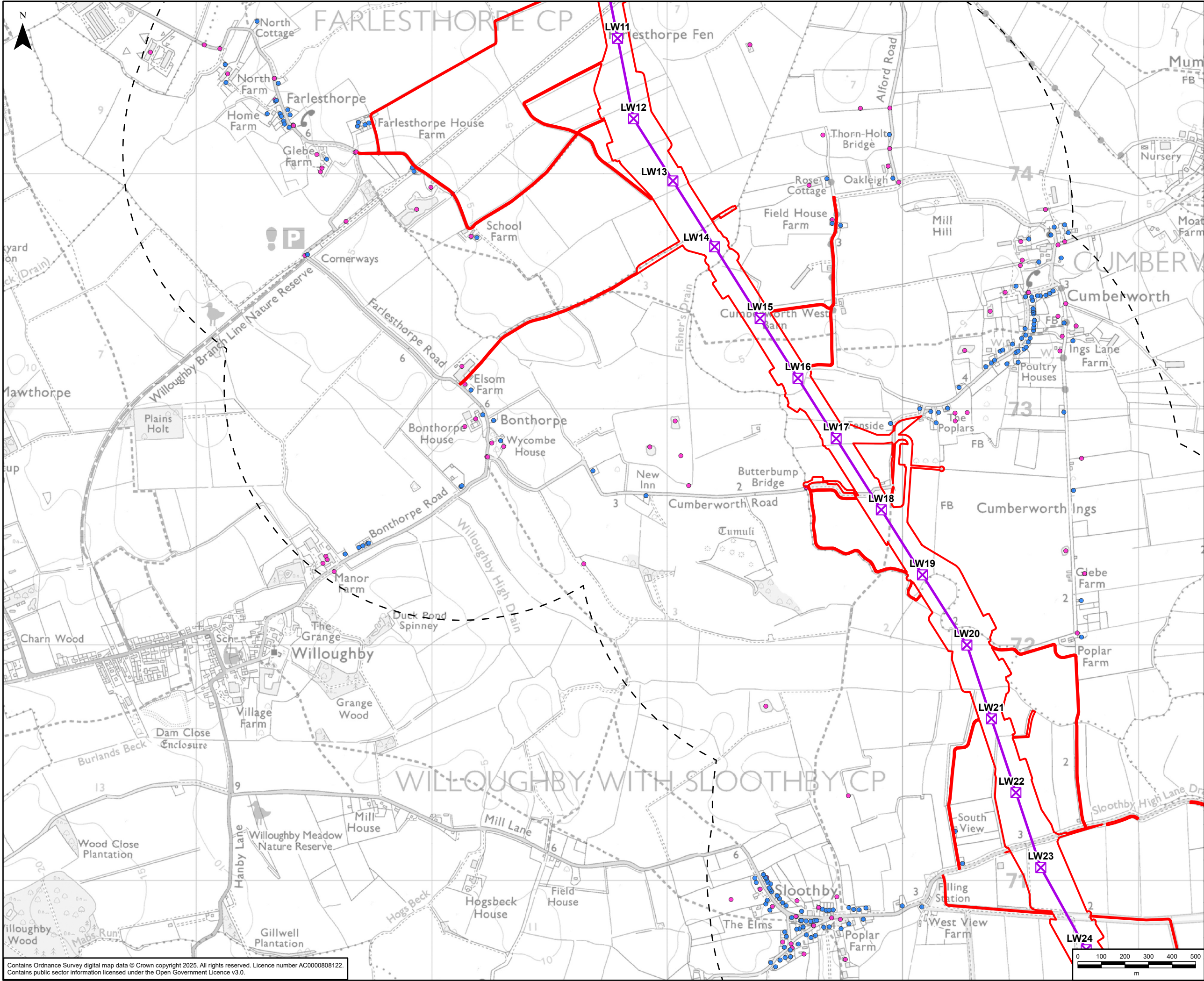
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Scheme: GRIMSBY TO WALPOLE

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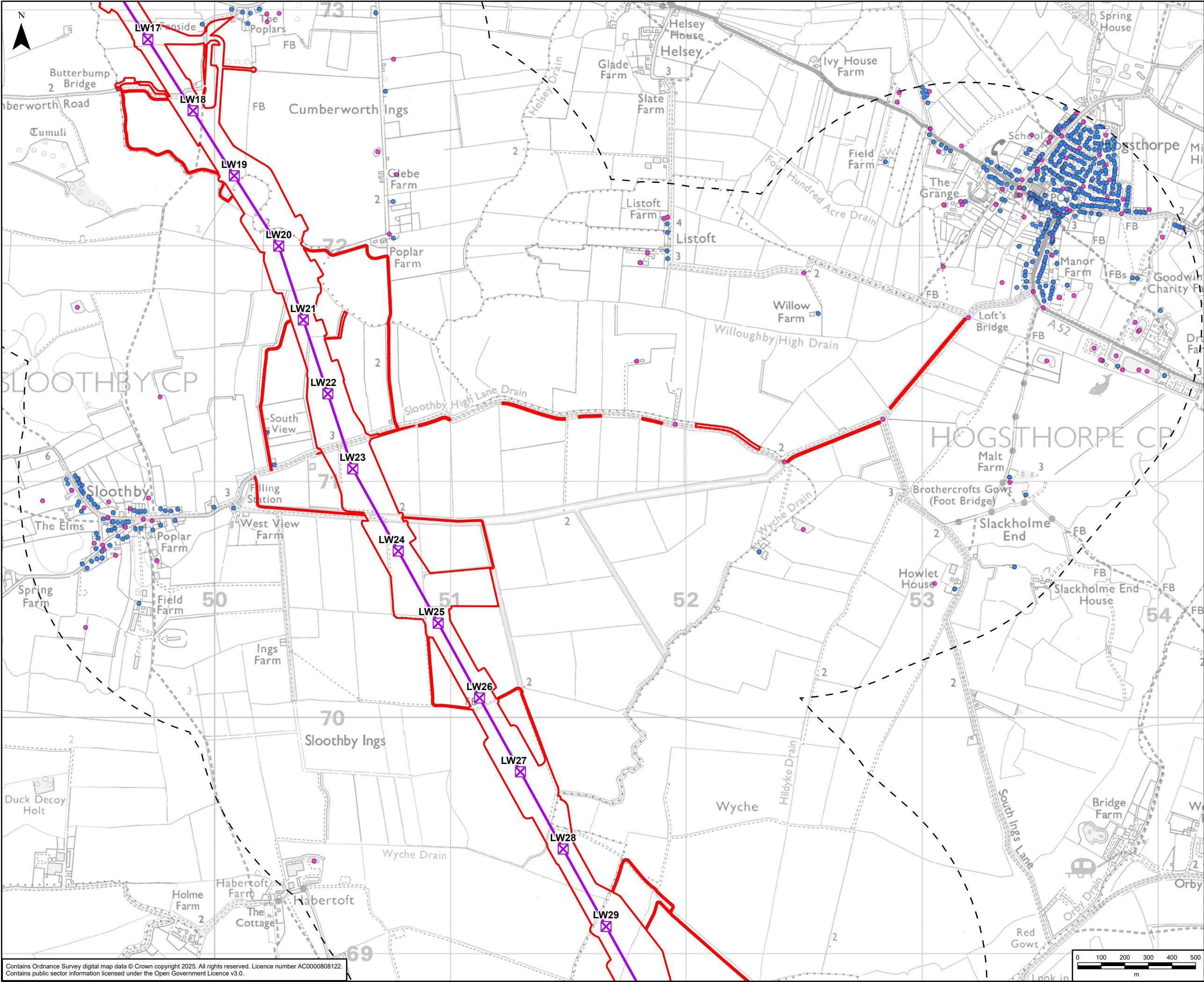
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- 1km Study Area
- ✕ Indicative New Lattice Pylon
- Indicative New Overhead Line

Address Data

- Residential
- Non-Residential

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GRIMSBY TO WALPOLE LEGEND

Legend

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

Address Data

- Residential
- Non-Residential

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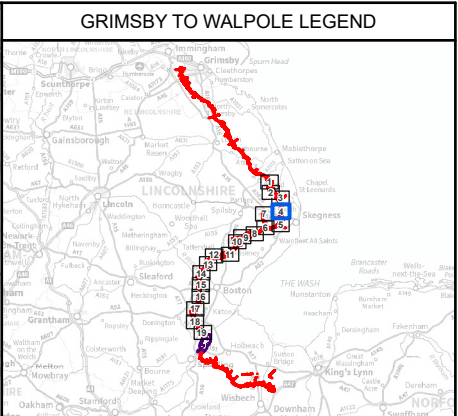
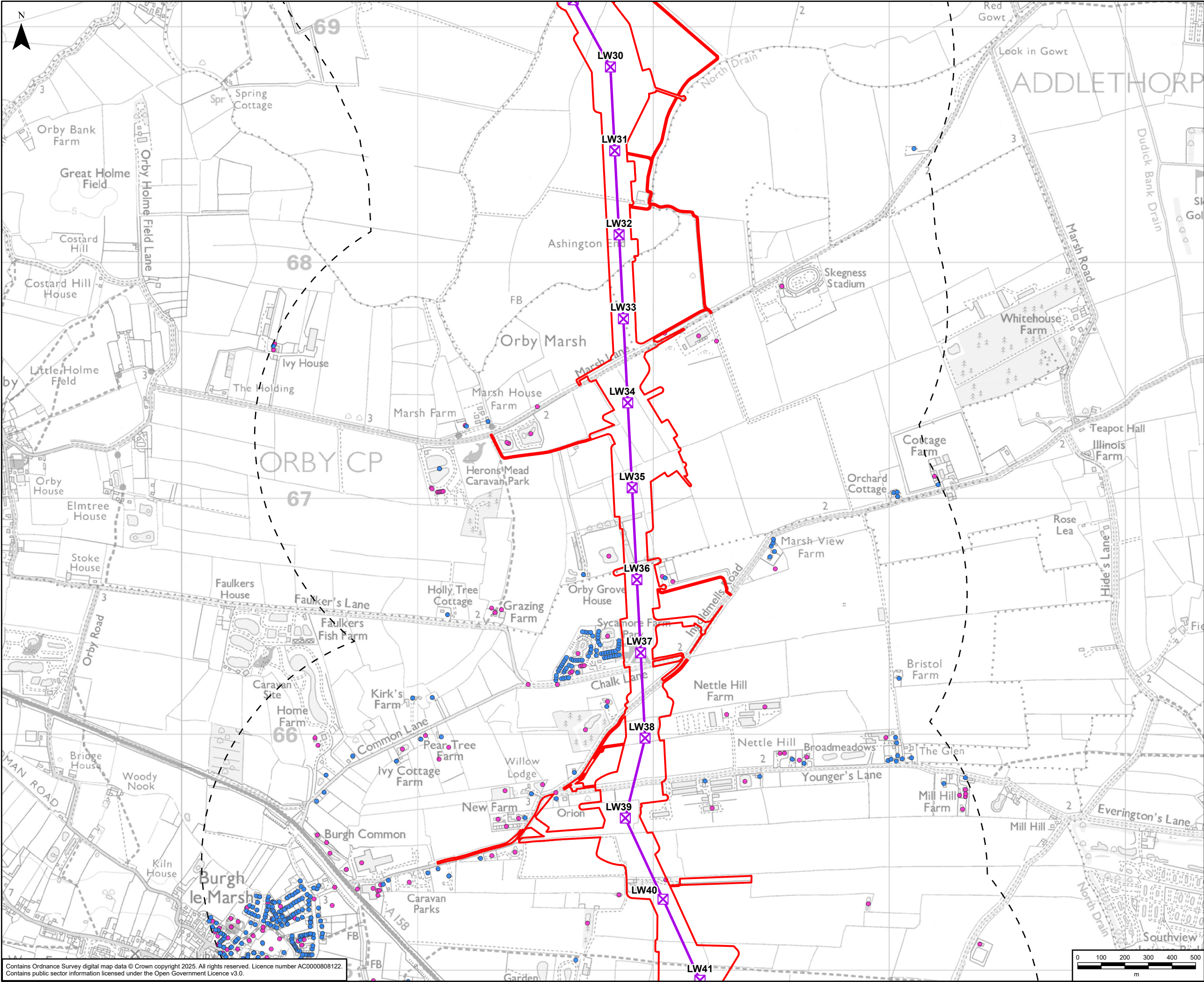
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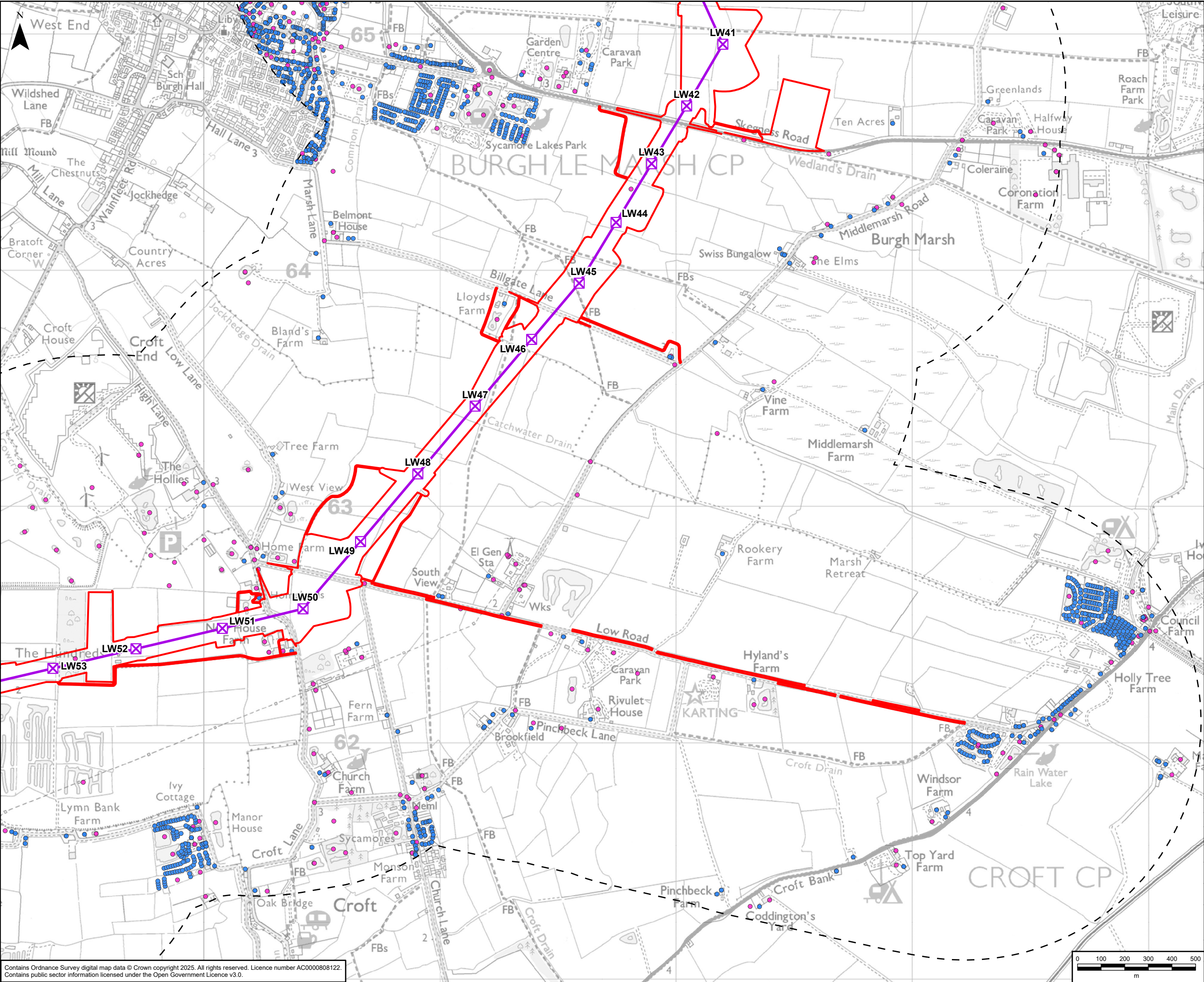
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Address Data

- Residential
- Non-Residential

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GRIMSBY TO WALPOLE LEGEND

Legend

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

Address Data

- Residential
- Non-Residential

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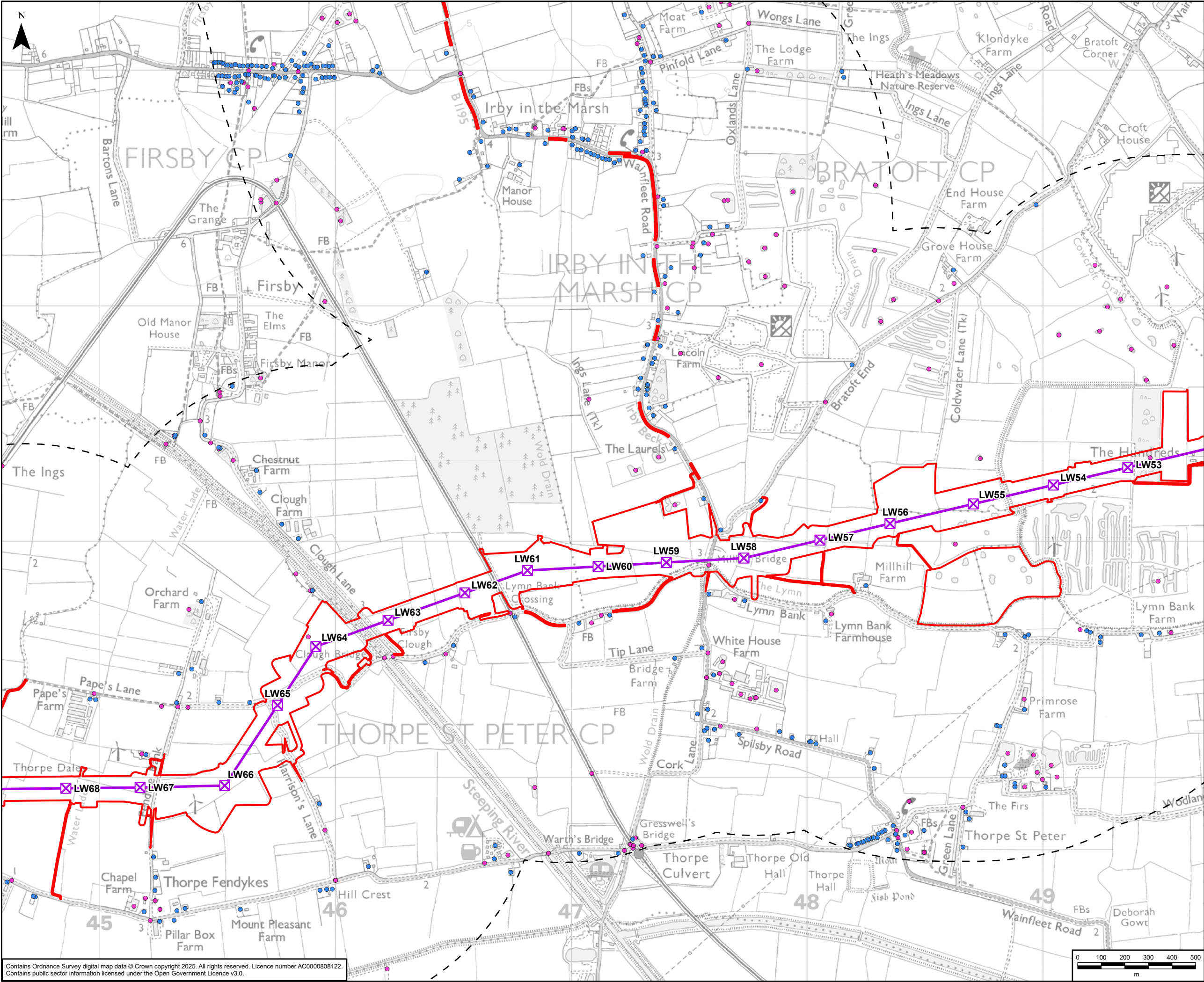
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GRIMSBY TO WALPOLE LEGEND

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

Address Data

- Residential
- Non-Residential

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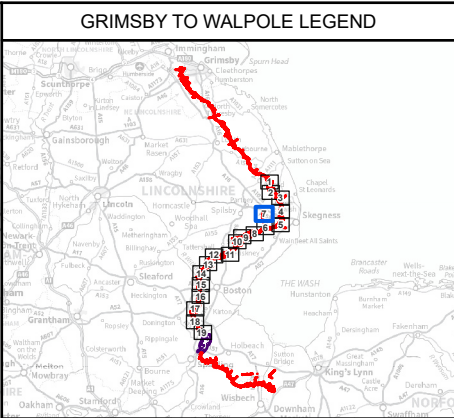
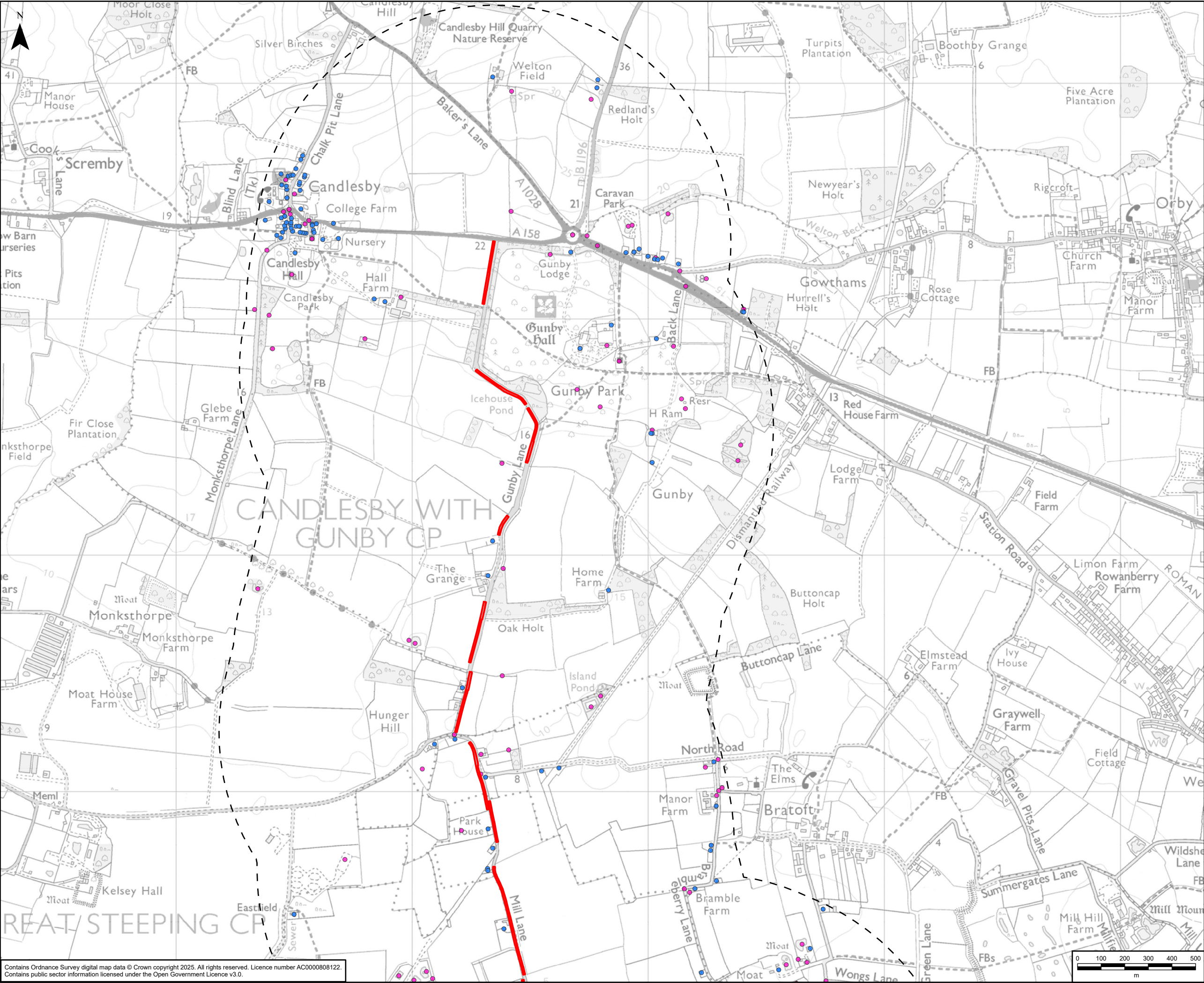
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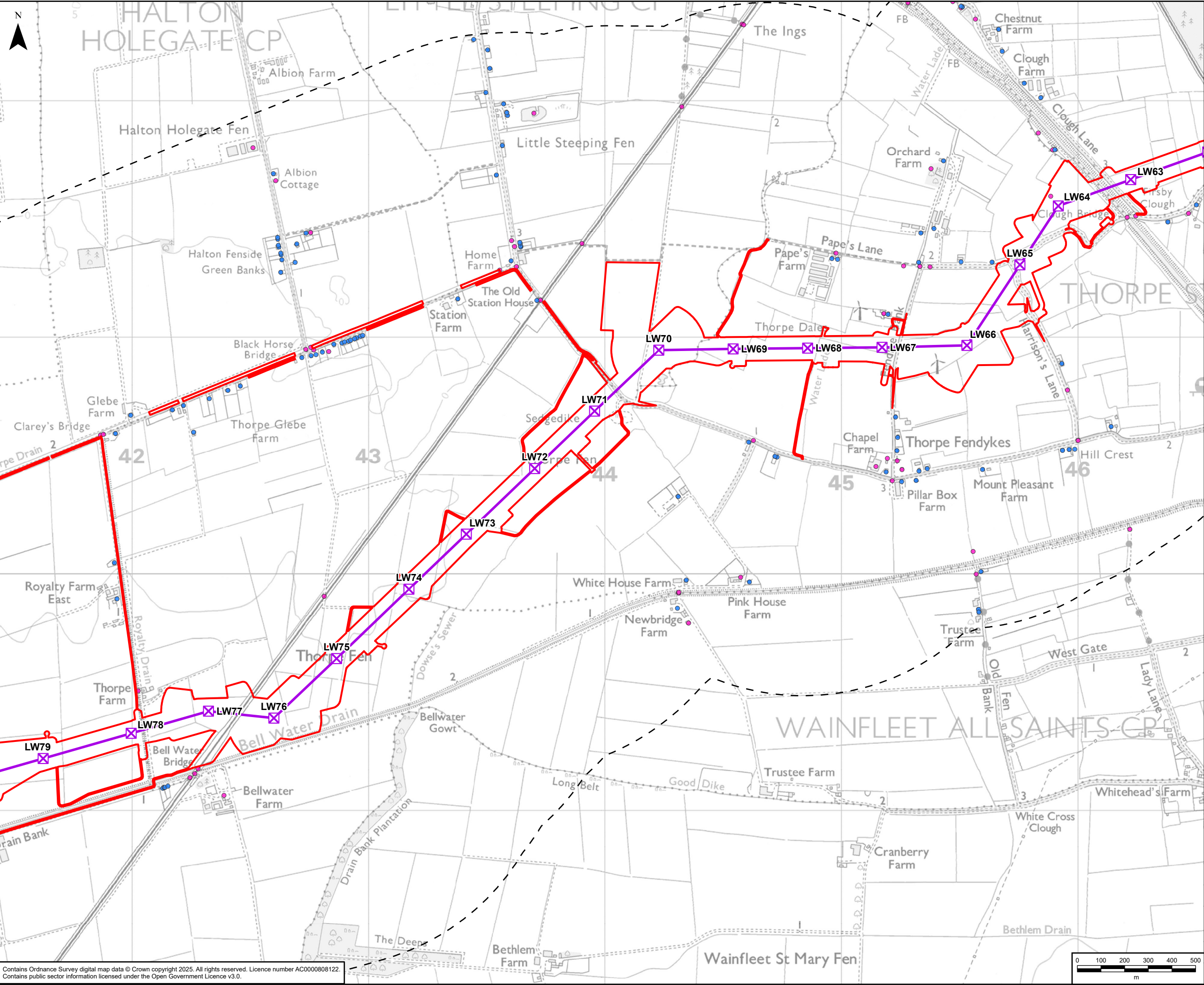
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- Draft Order Limits
- 1km Study Area
- Address Data**
- Residential
- Non-Residential

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

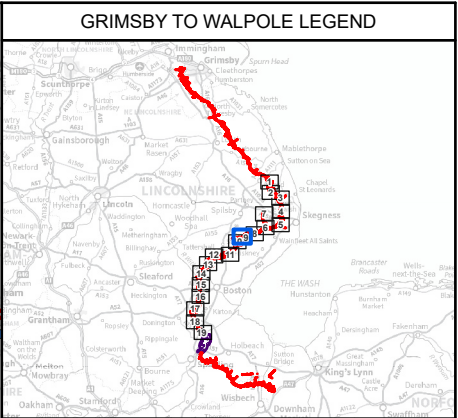
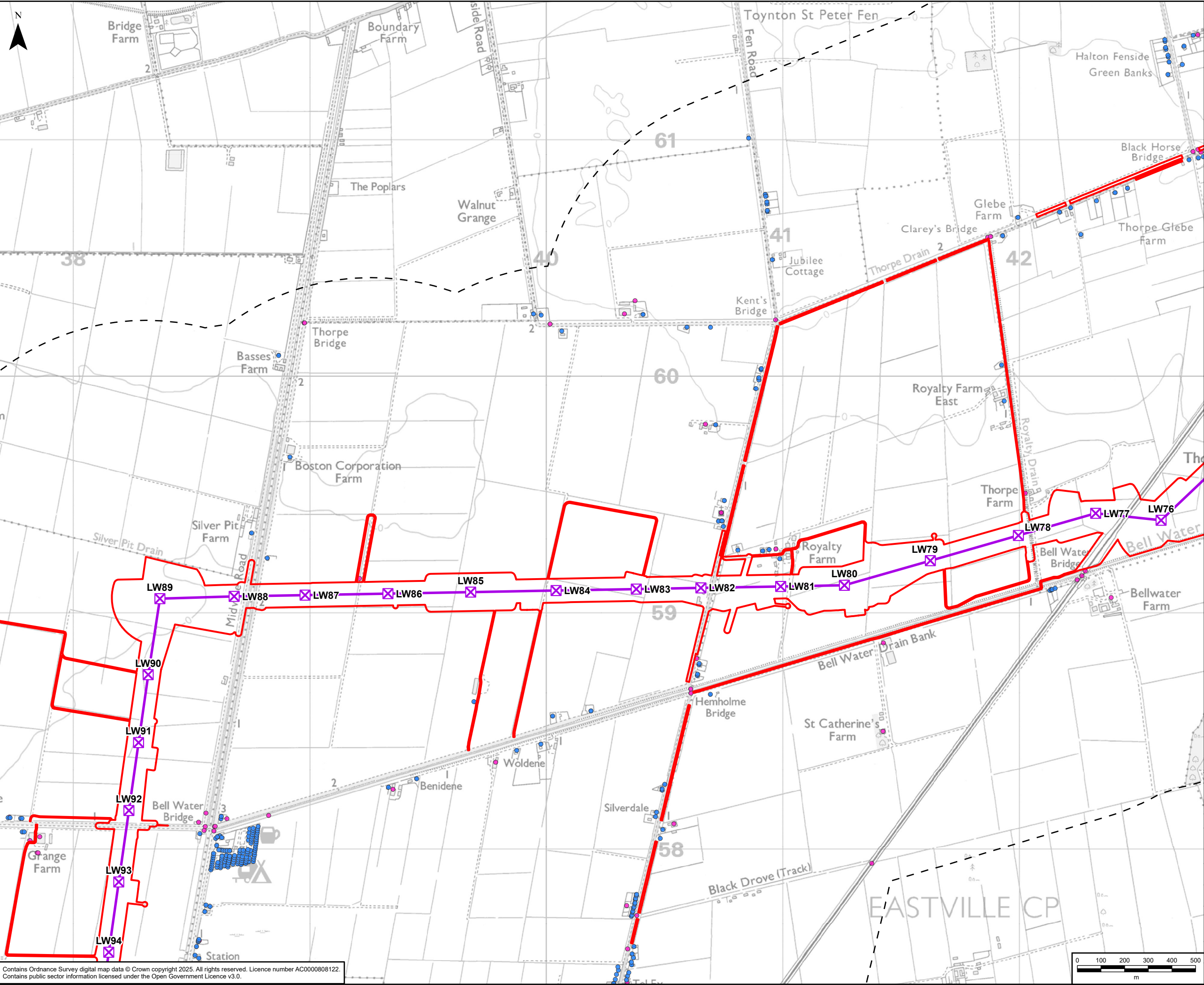
Address Data

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- Non-Residential

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GRIMSBY TO WALPOLE LEGEND

Legend

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

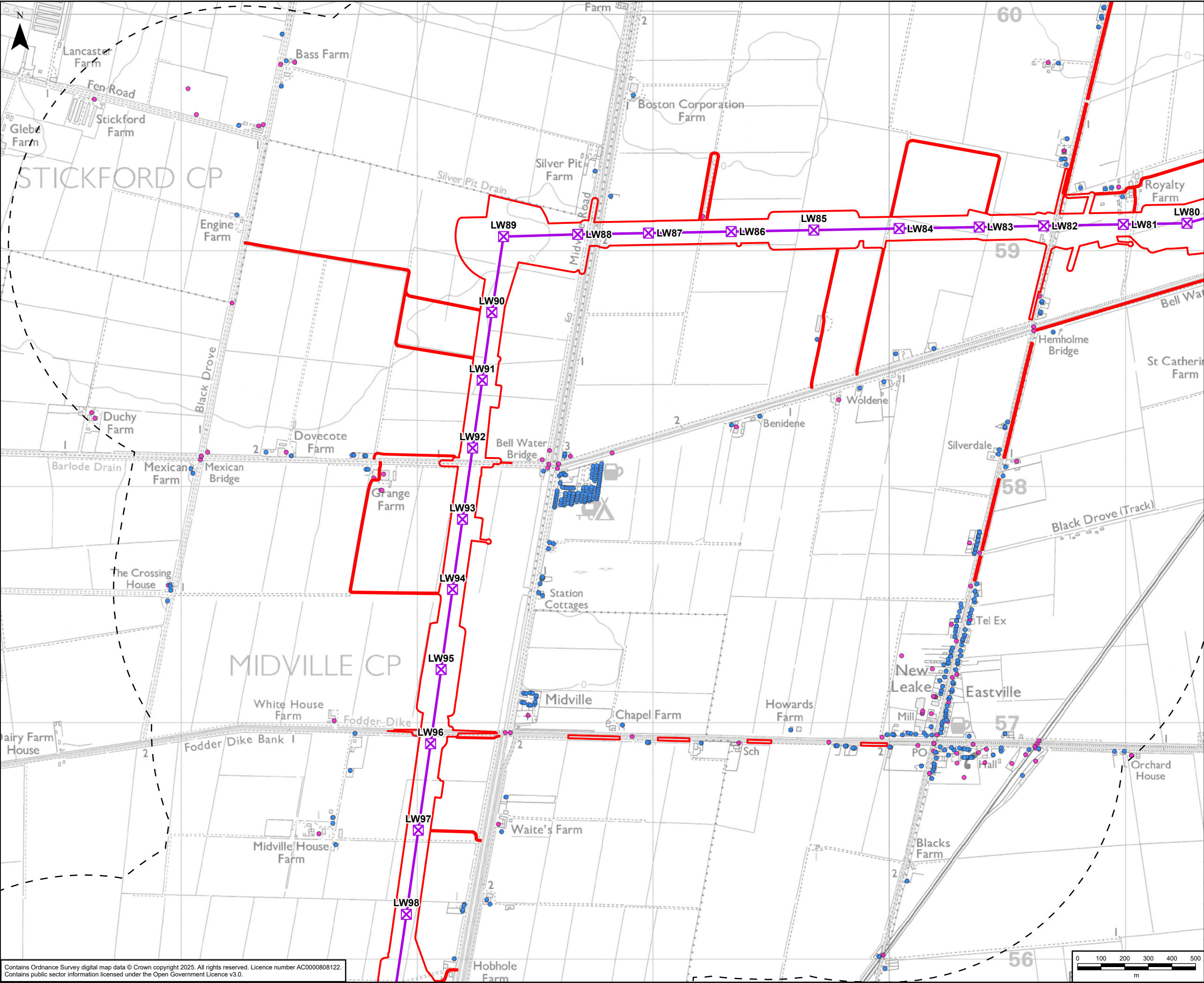
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FIGURE	1:15,000	A3	9 OF 19	A	



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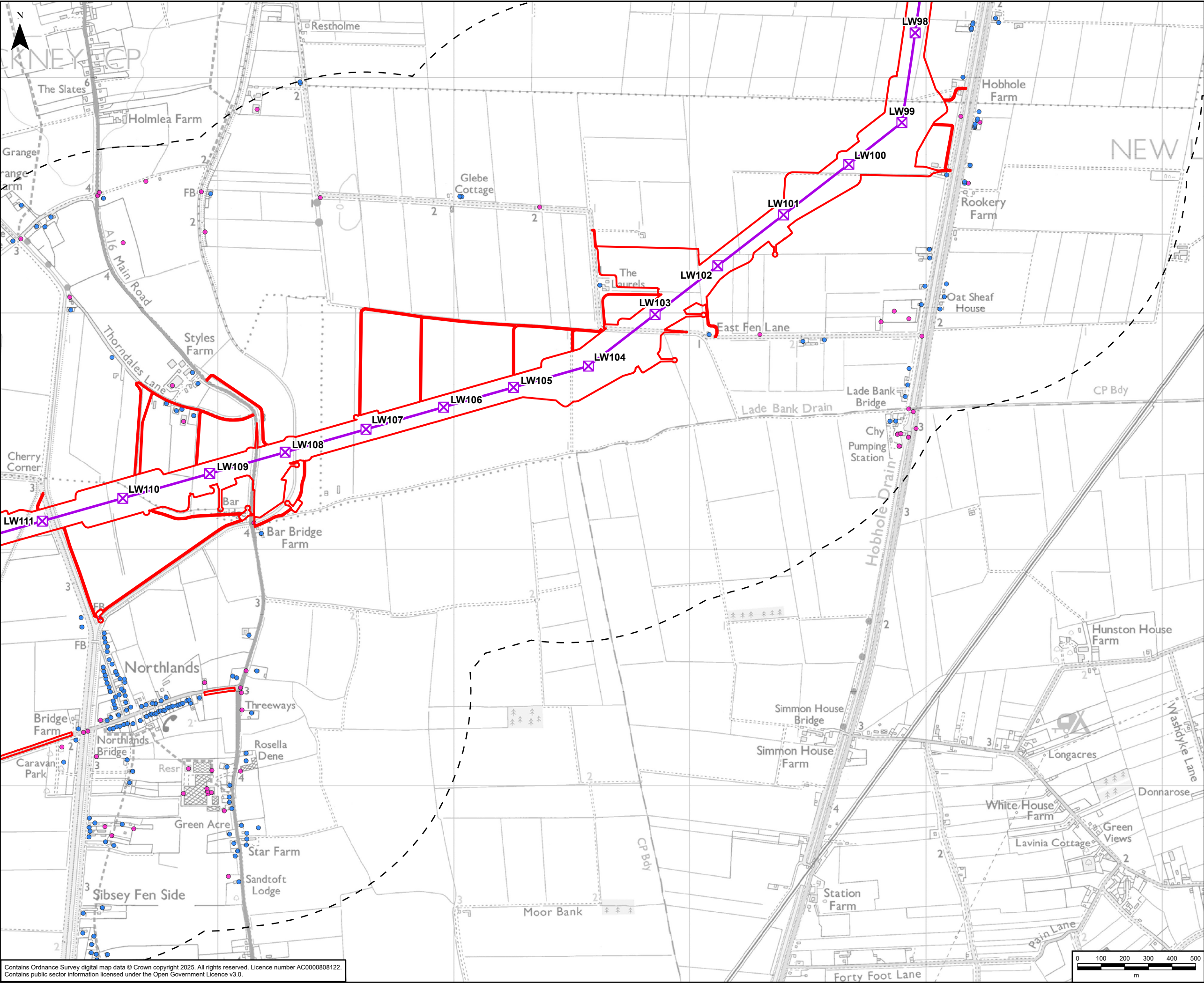
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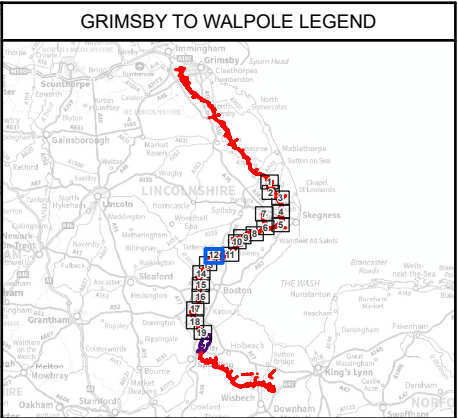
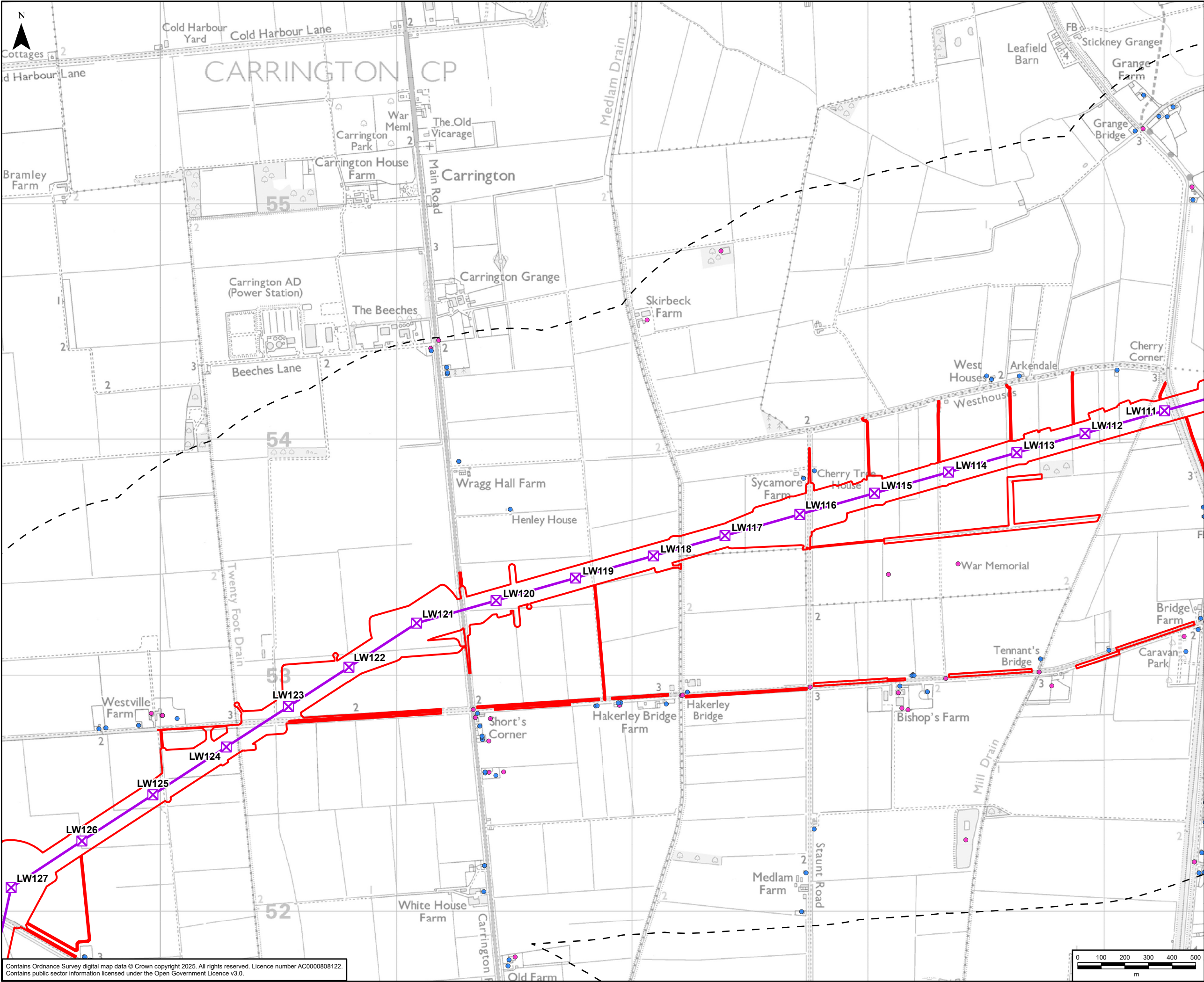
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- 1km Study Area
- ✕ Indicative New Lattice Pylon
- Indicative New Overhead Line

Address Data

- Residential
- Non-Residential

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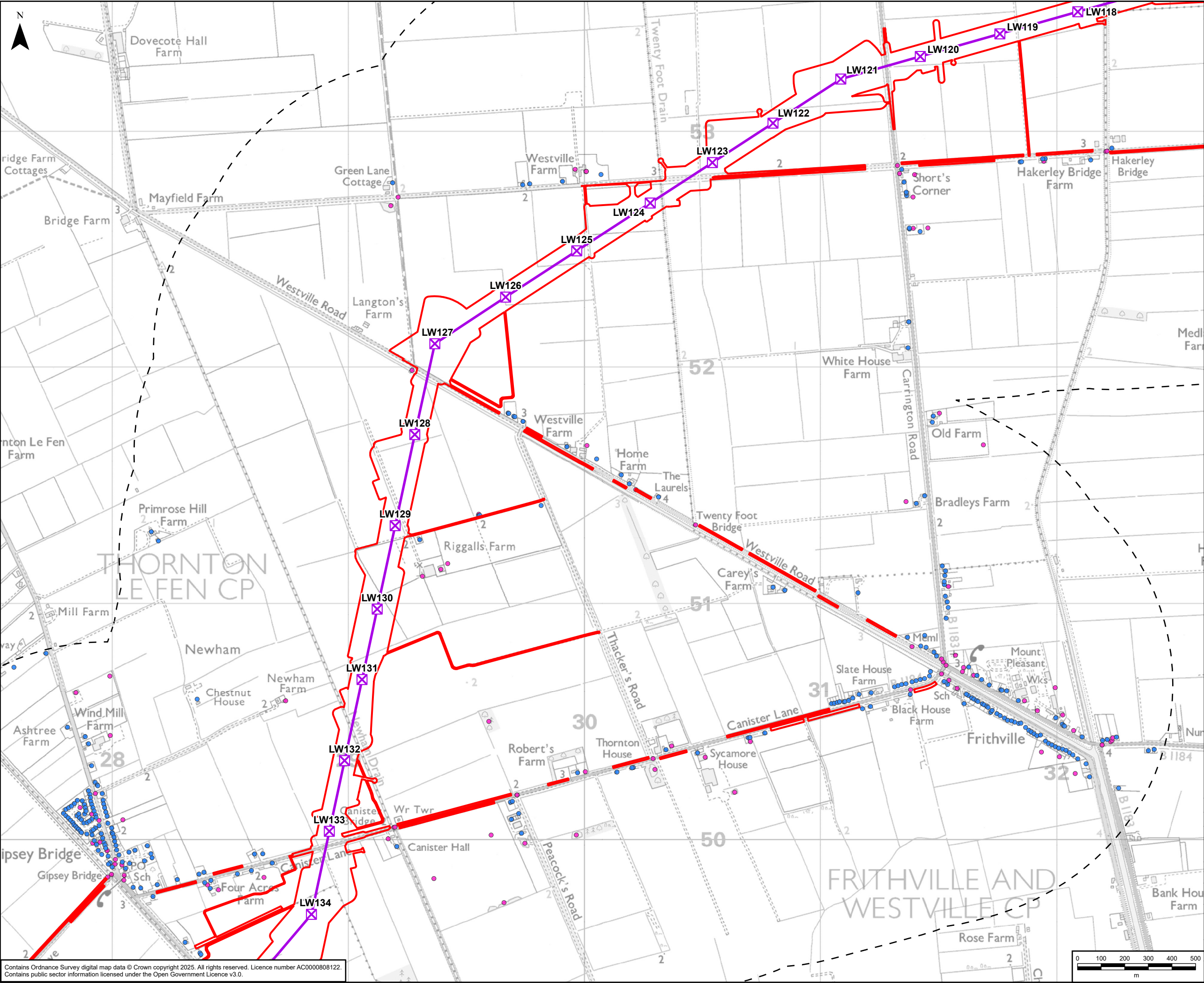
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- 1km Study Area
- Indicative New Lattice Pylon
- Indicative New Overhead Line

Address Data

- Residential
- Non-Residential

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GRIMSBY TO WALPOLE LEGEND

Legend

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

Address Data

- Residential
- Non-Residential

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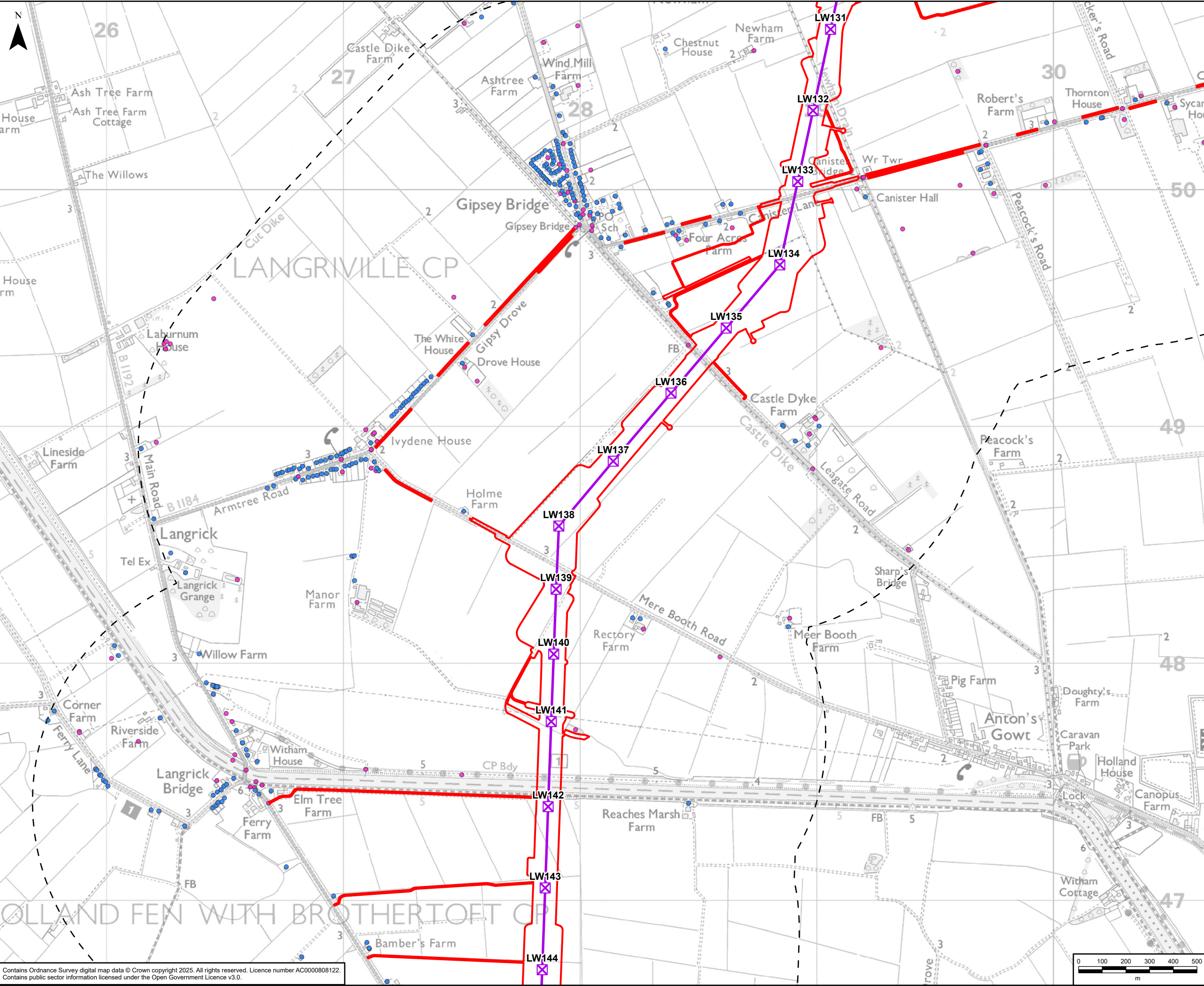
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GRIMSBY TO WALPOLE LEGEND

Legend

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

Address Data

- Residential
- Non-Residential

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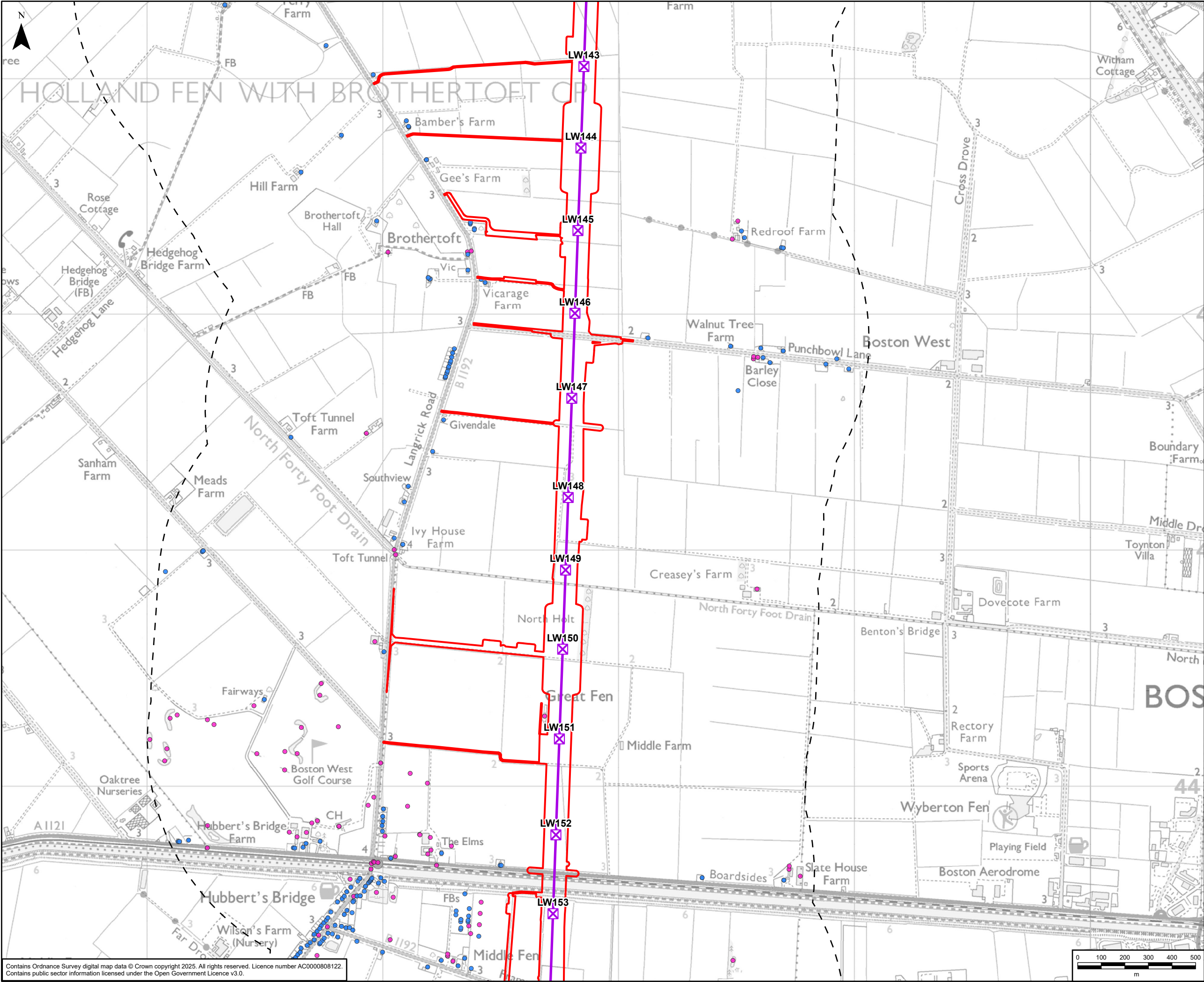
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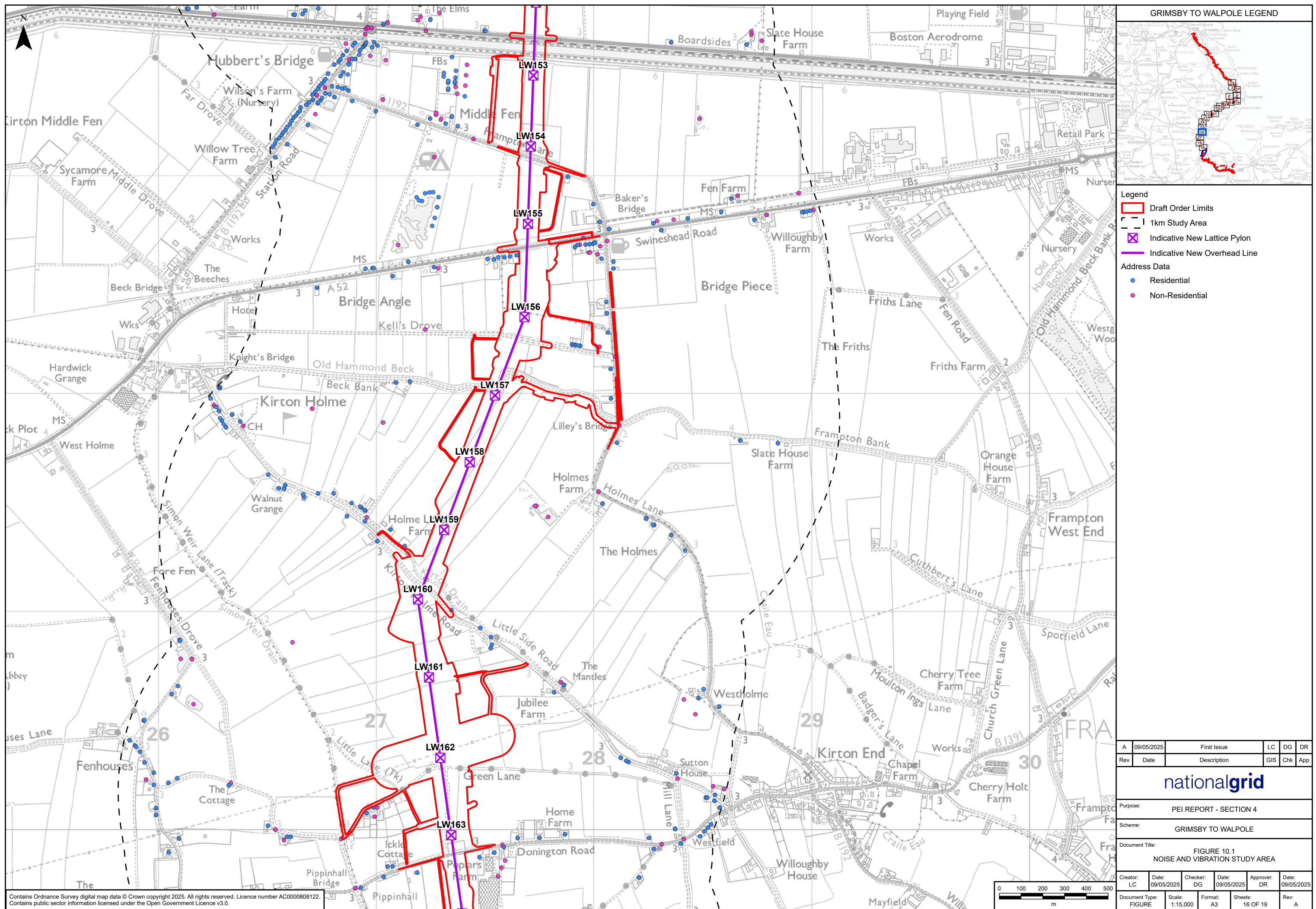
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- 1km Study Area
- X Indicative New Lattice Pylon
- Indicative New Overhead Line

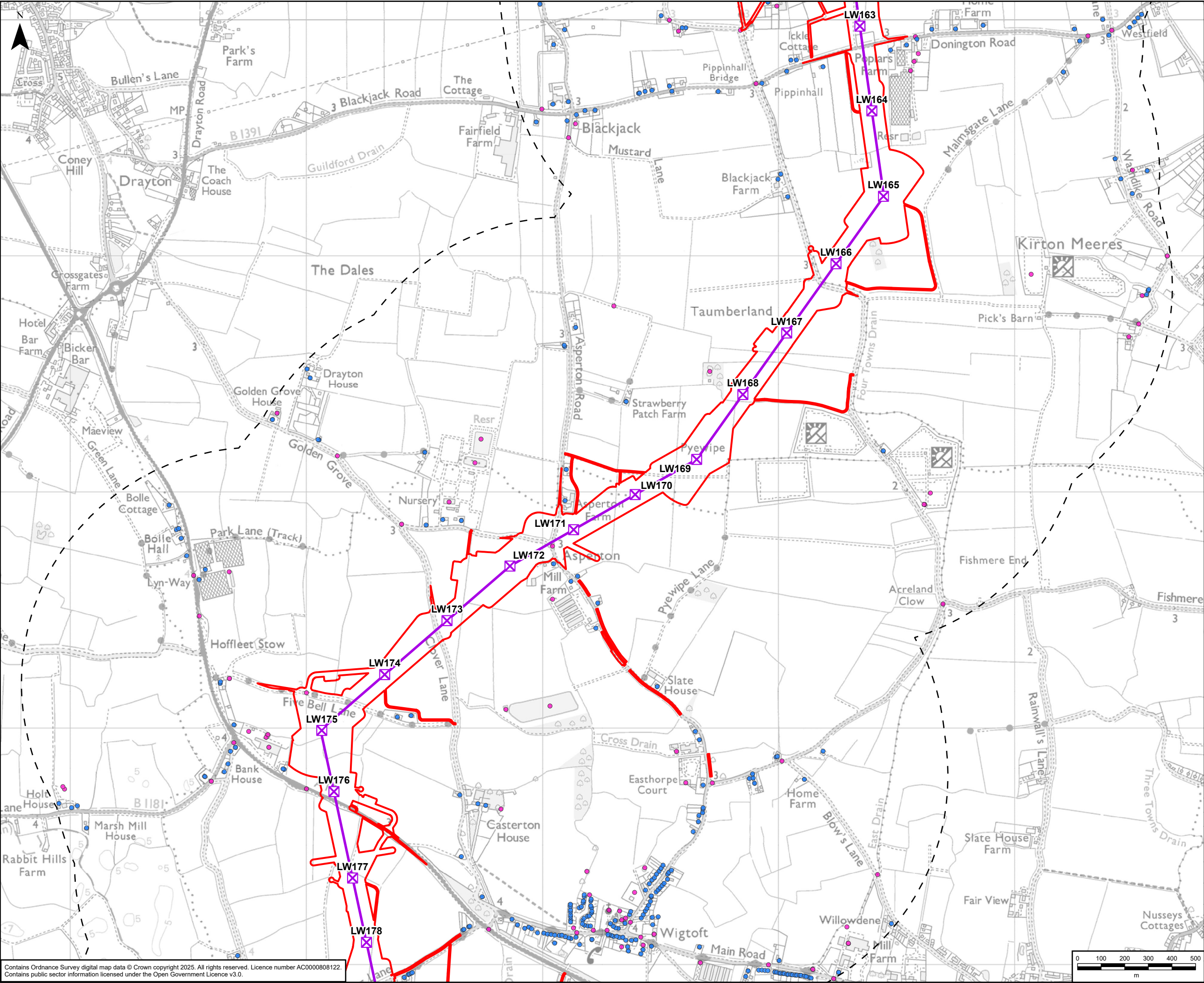
Address Data

- Residential
- Non-Residential

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GRIMSBY TO WALPOLE LEGEND

Draft Order Limits

1km Study Area

Indicative New Lattice Pylon

Indicative New Overhead Line

Address Data

Residential

Non-Residential

A

09/05/2025

First Issue

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Date

Description

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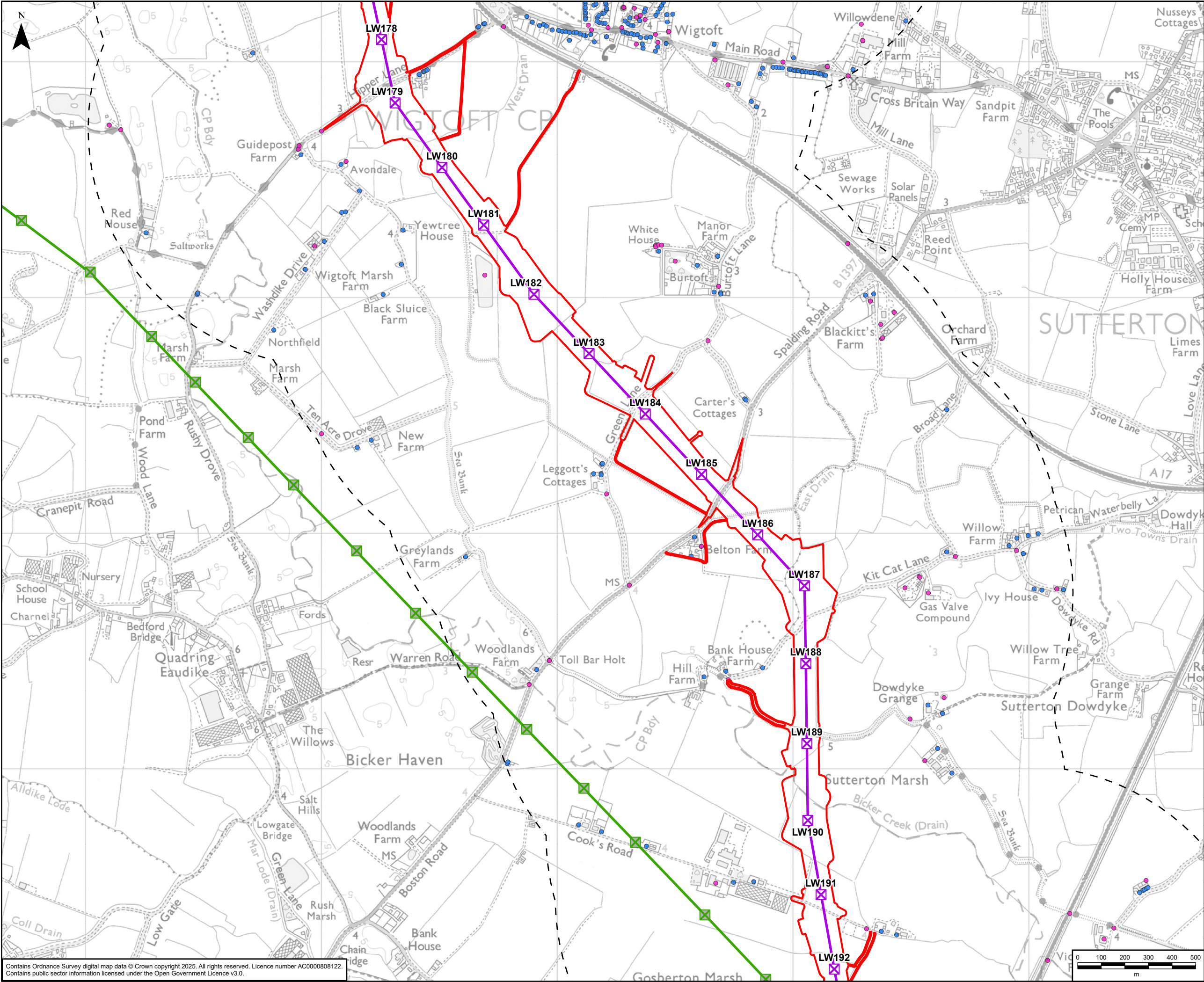
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 1km Study Area
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected

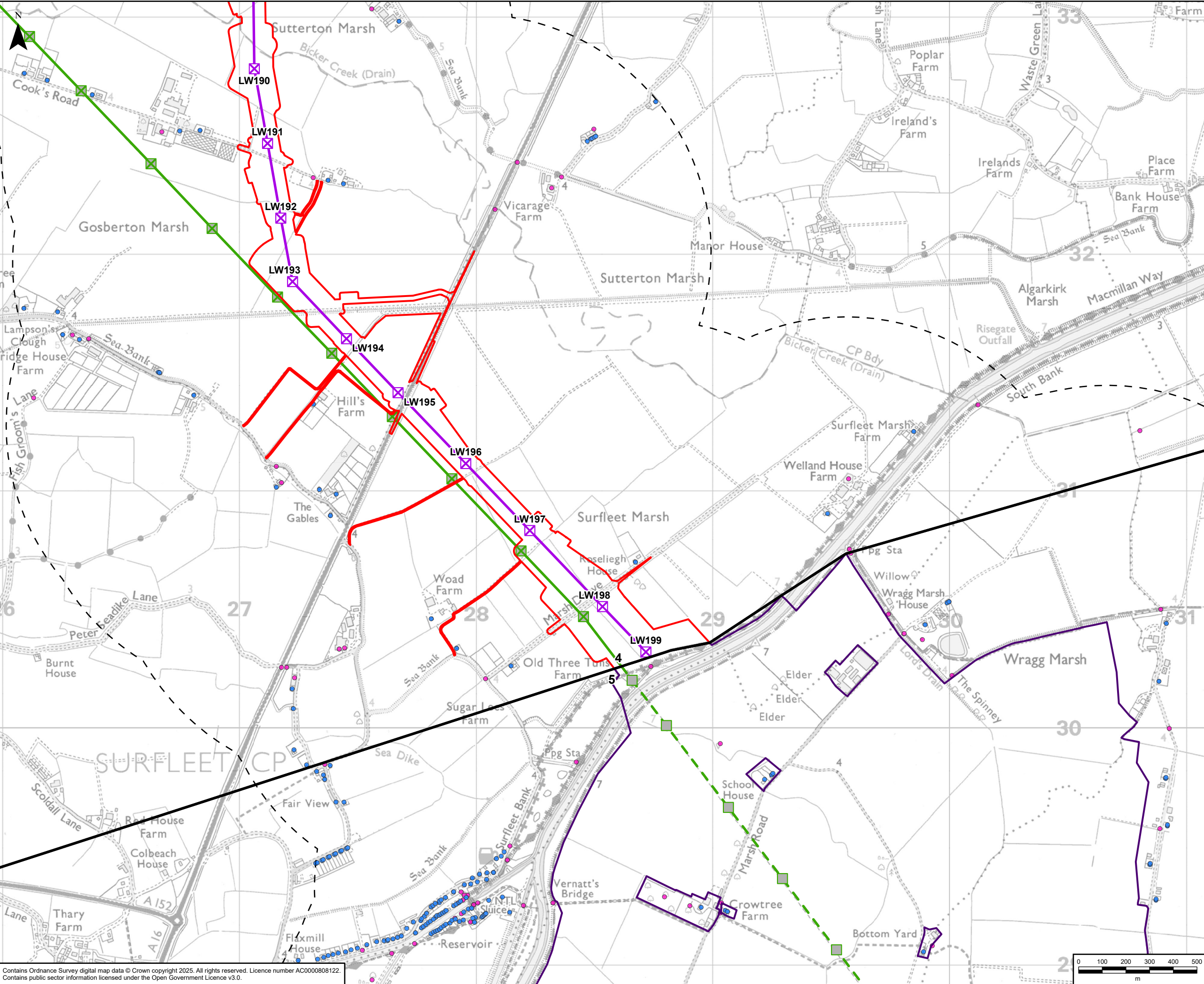
Address Data

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- Non-Residential

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Refined Weston Marsh Substation Siting Zone
- Route Section Break
- 1km Study Area
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Within Weston Marsh Siting Zone that May Be Modified
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Existing Overhead Line - Within Weston Marsh Siting Zone that May Be Modified

Address Data

- Residential
- Non-Residential

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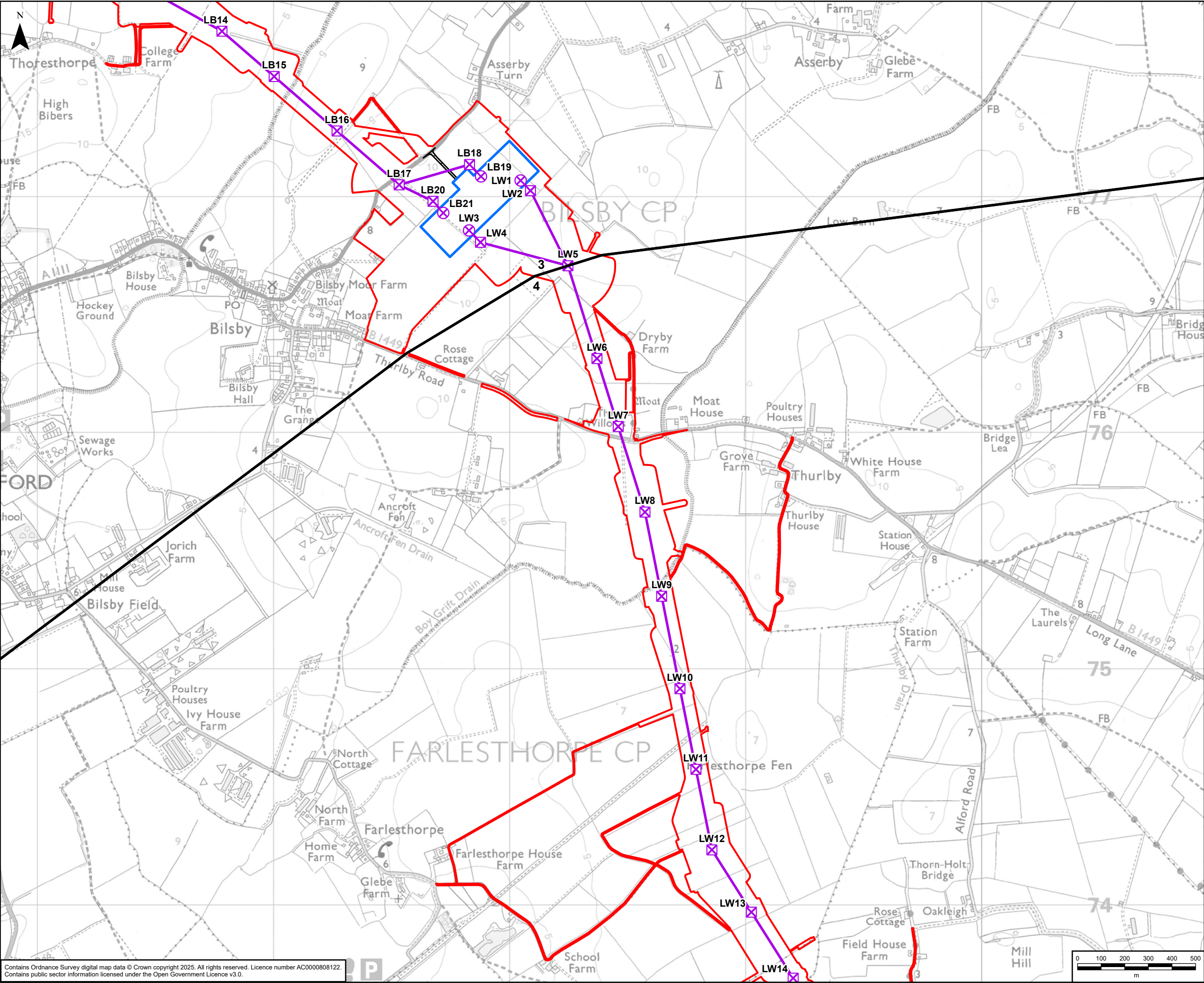
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GRIMSBY TO WALPOLE LEGEND

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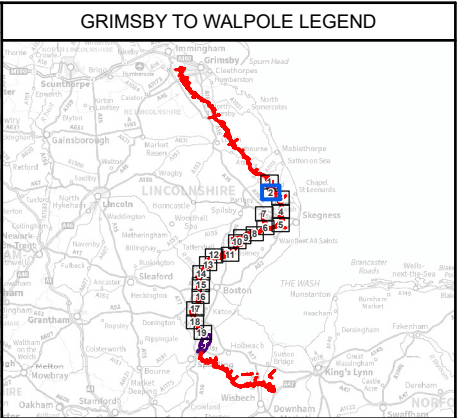
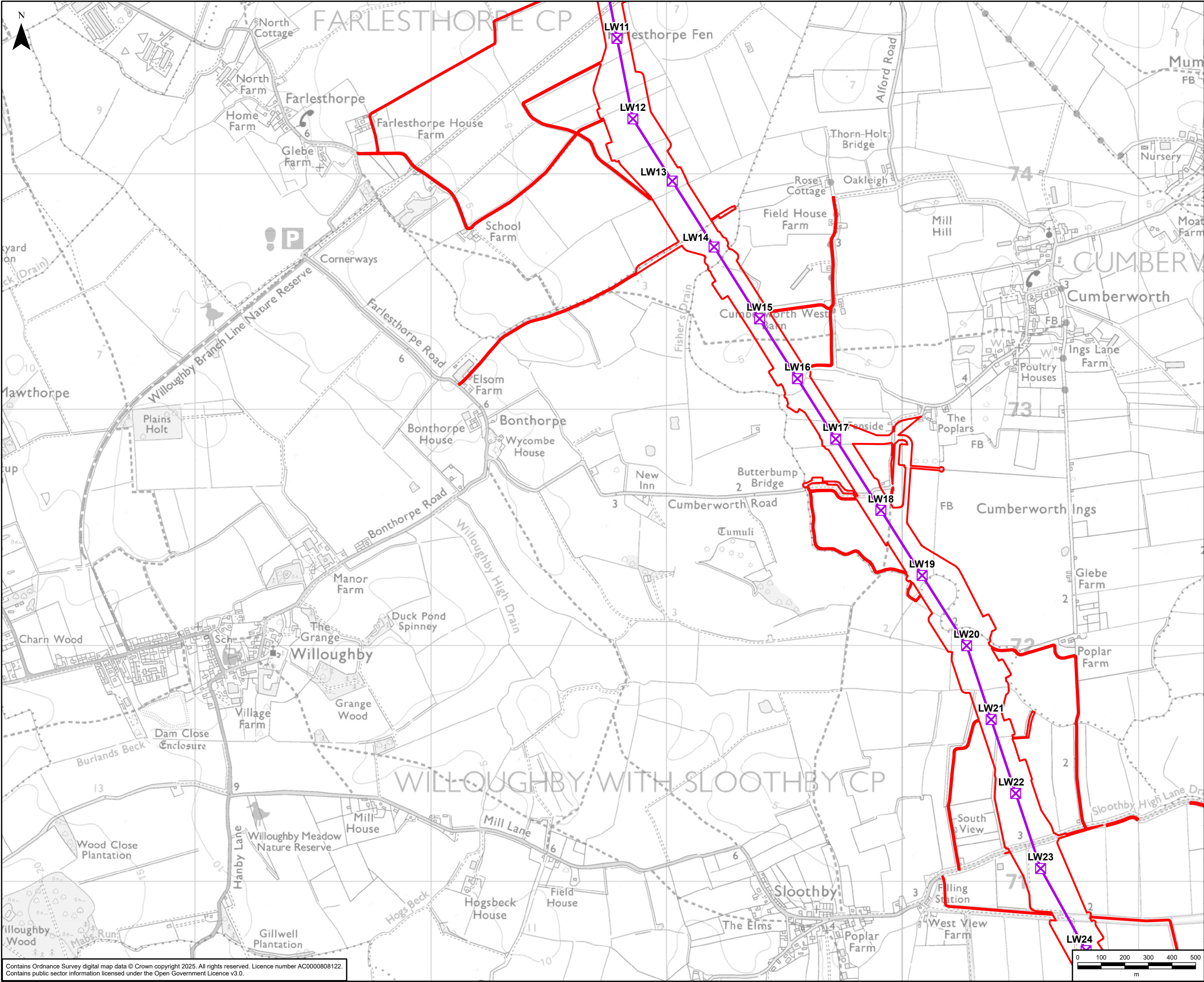
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FIGURE 10.2
NOISE AND VIBRATION BASELINE

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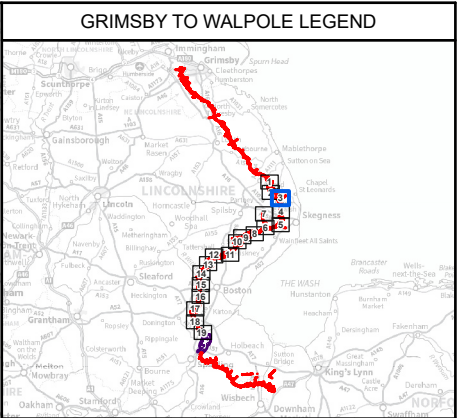
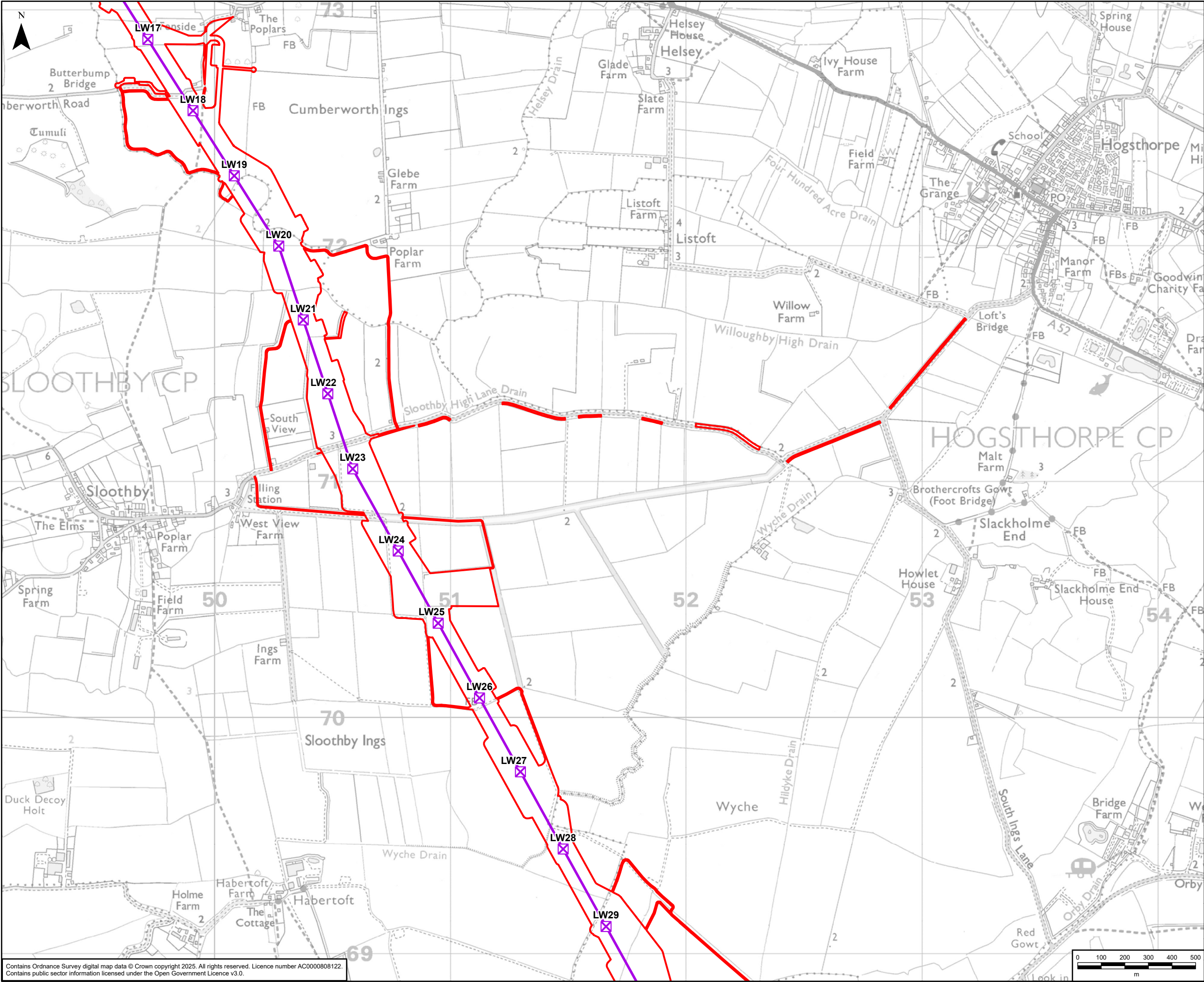


- Legend**
- Draft Order Limits
 - ✕ Indicative New Lattice Pylon
 - Indicative New Overhead Line

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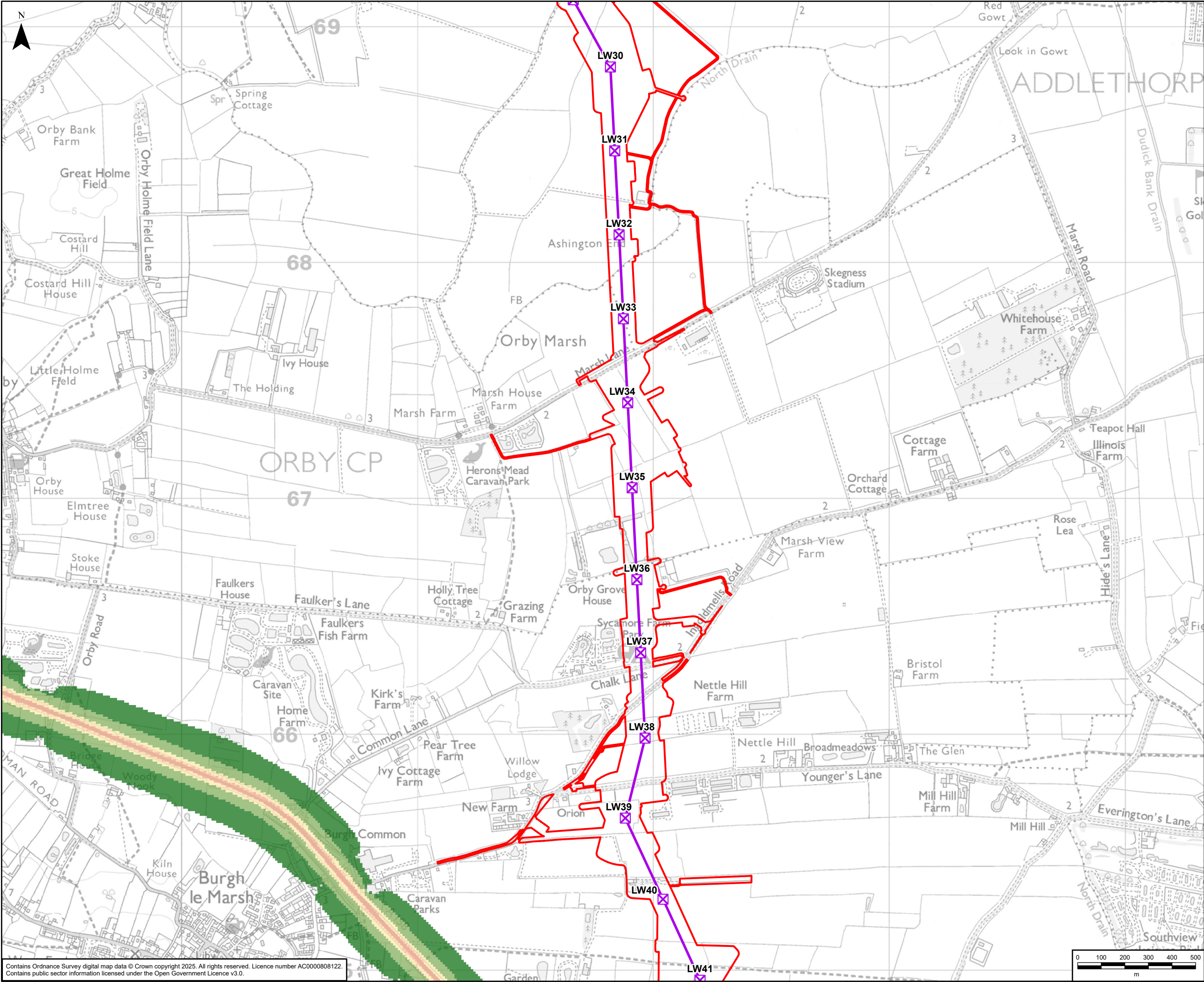
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Legend

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

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GRIMSBY TO WALPOLE LEGEND

Legend

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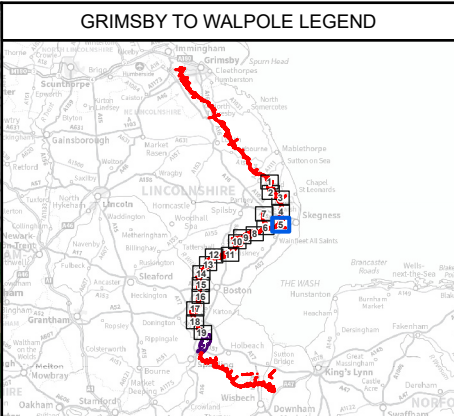
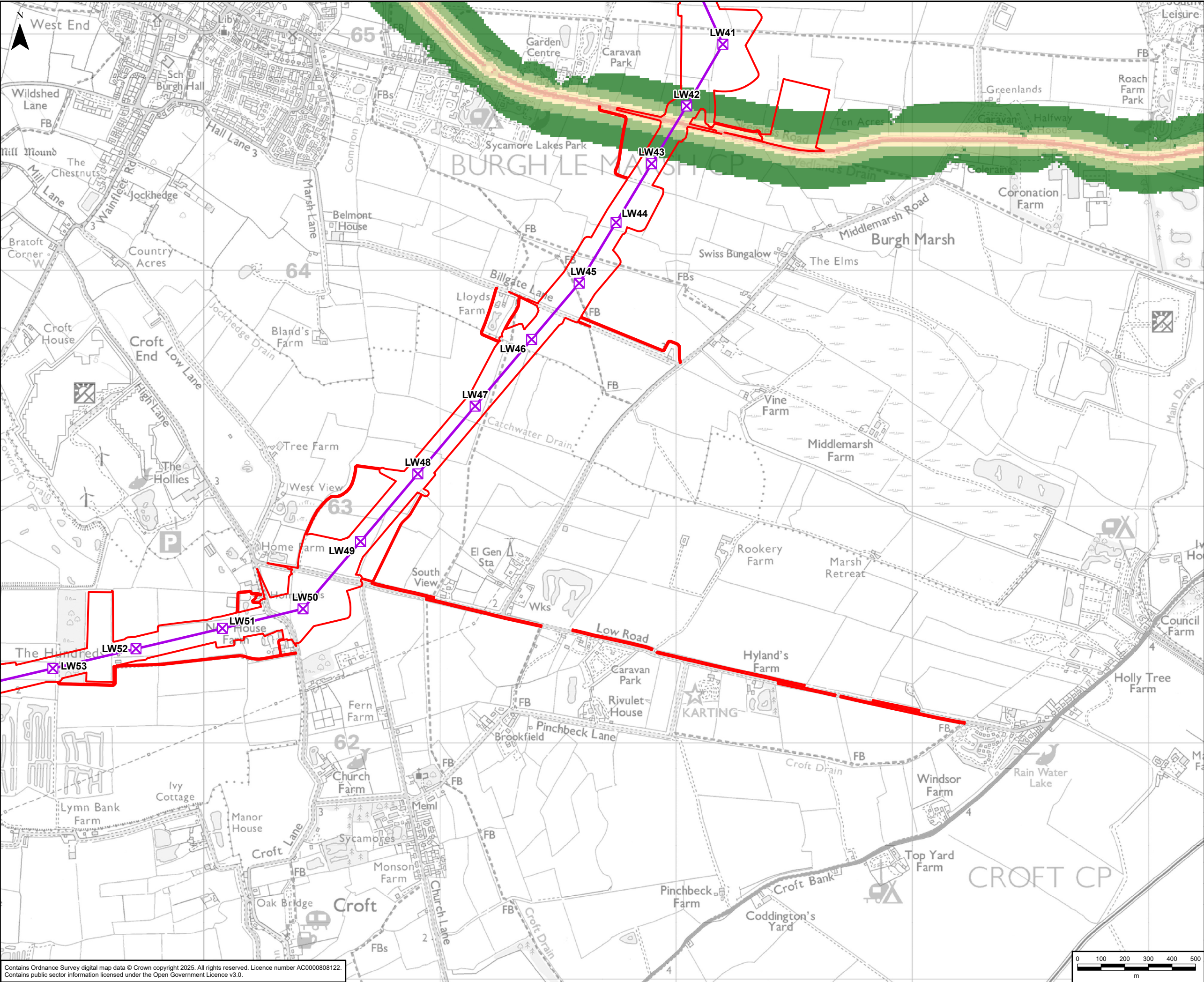
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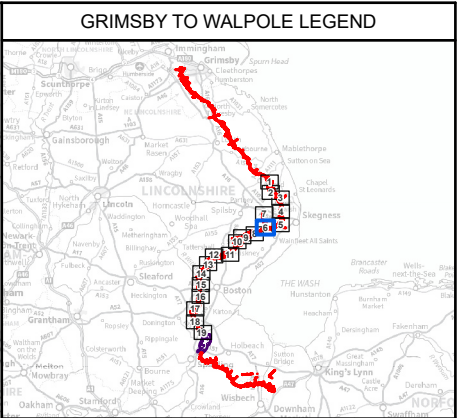
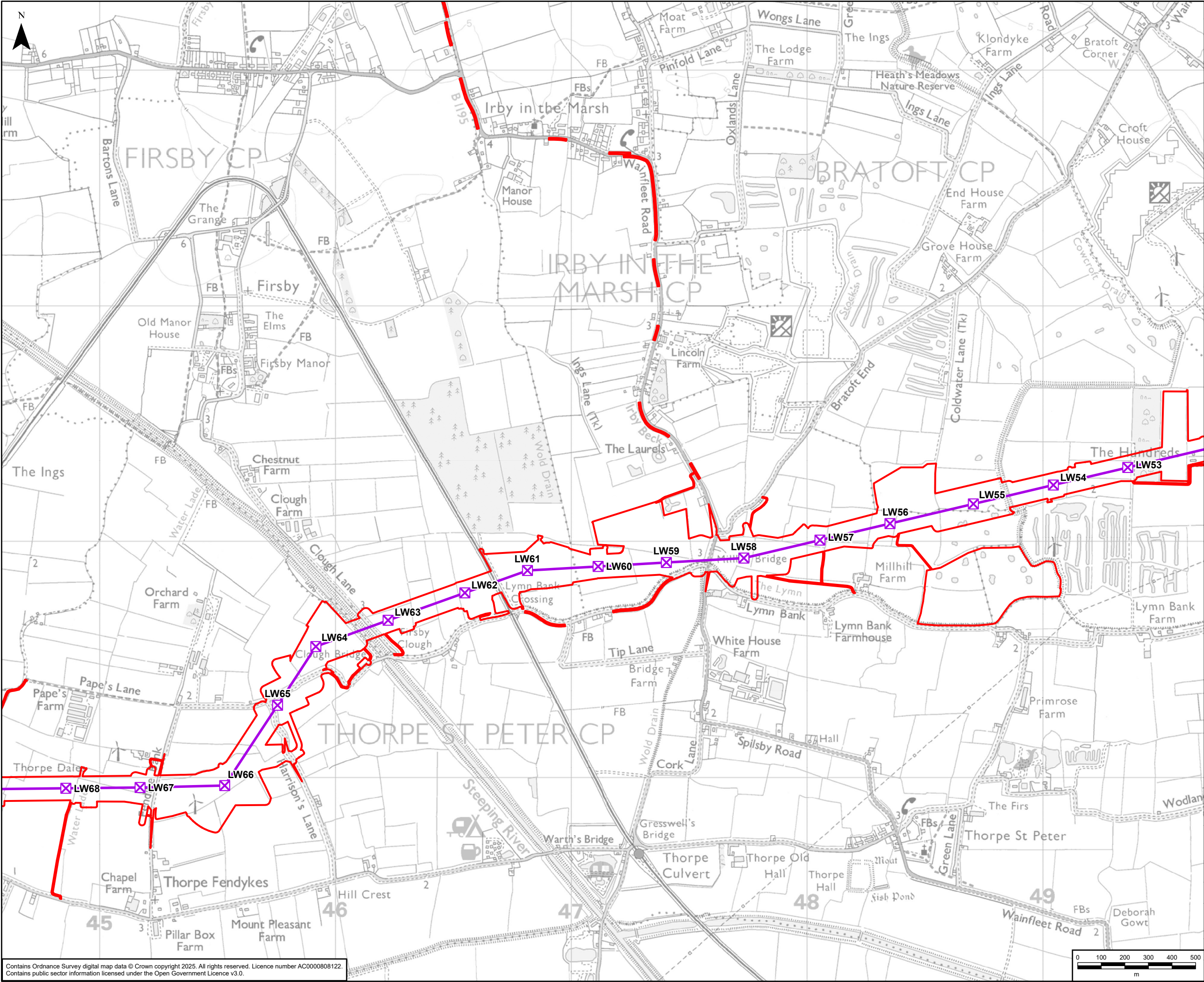
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- Indicative New Lattice Pylon
- Indicative New Overhead Line

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

A	09/05/2025	First Issue	LC	DG	DR
Rev	Date	Description	GIS	Chk	App
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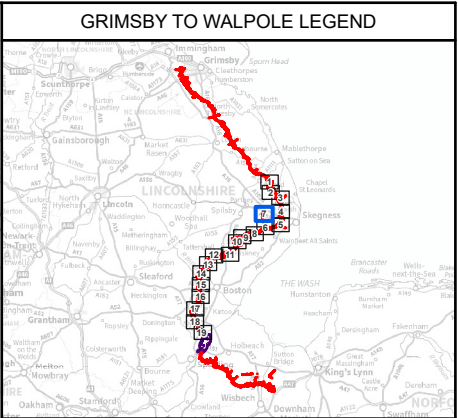
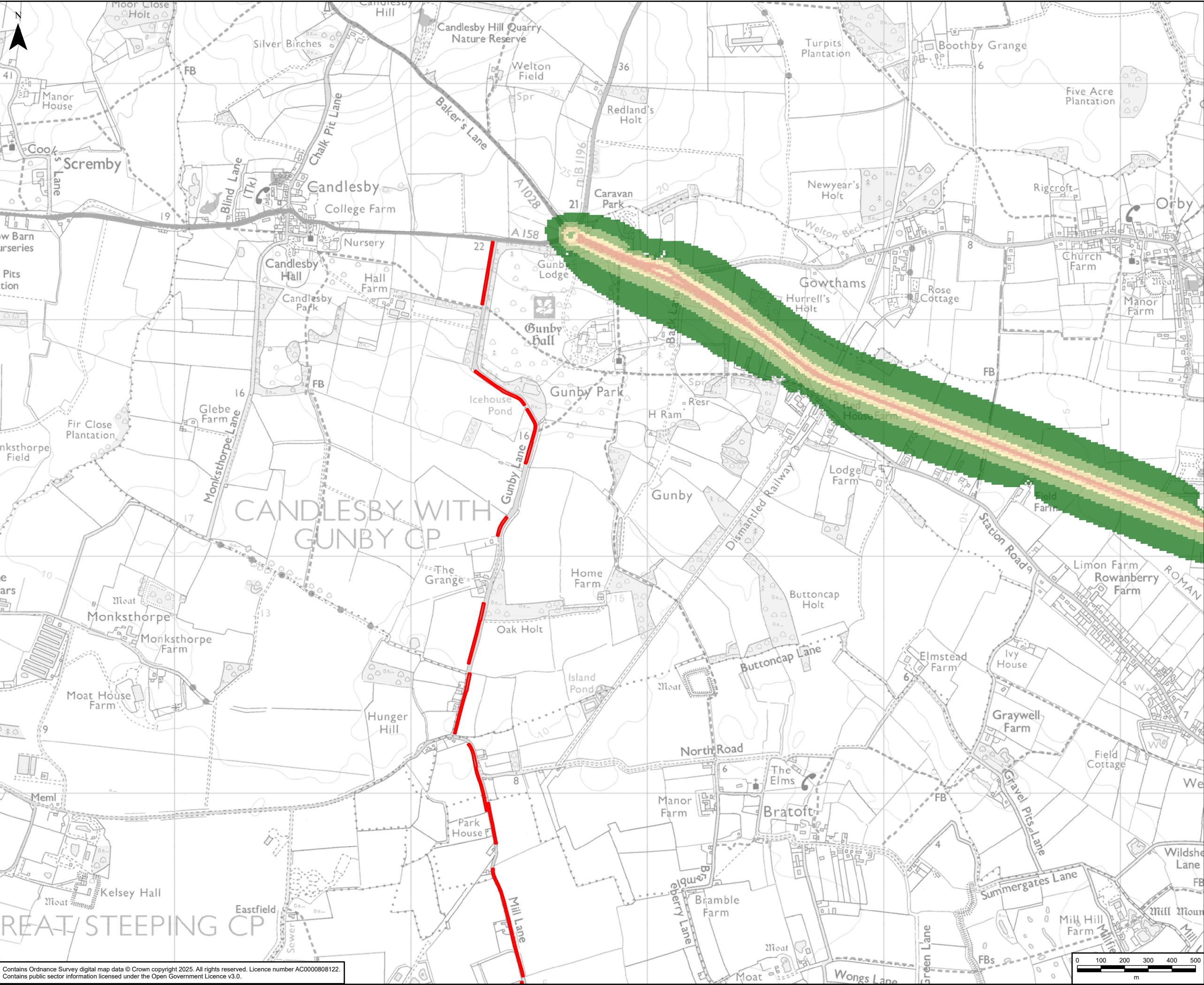
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- Legend**
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 - X Indicative New Lattice Pylon
 - Indicative New Overhead Line

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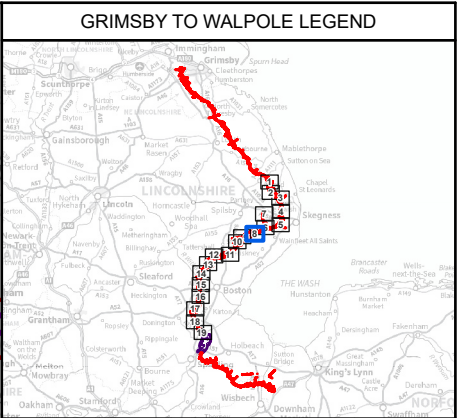
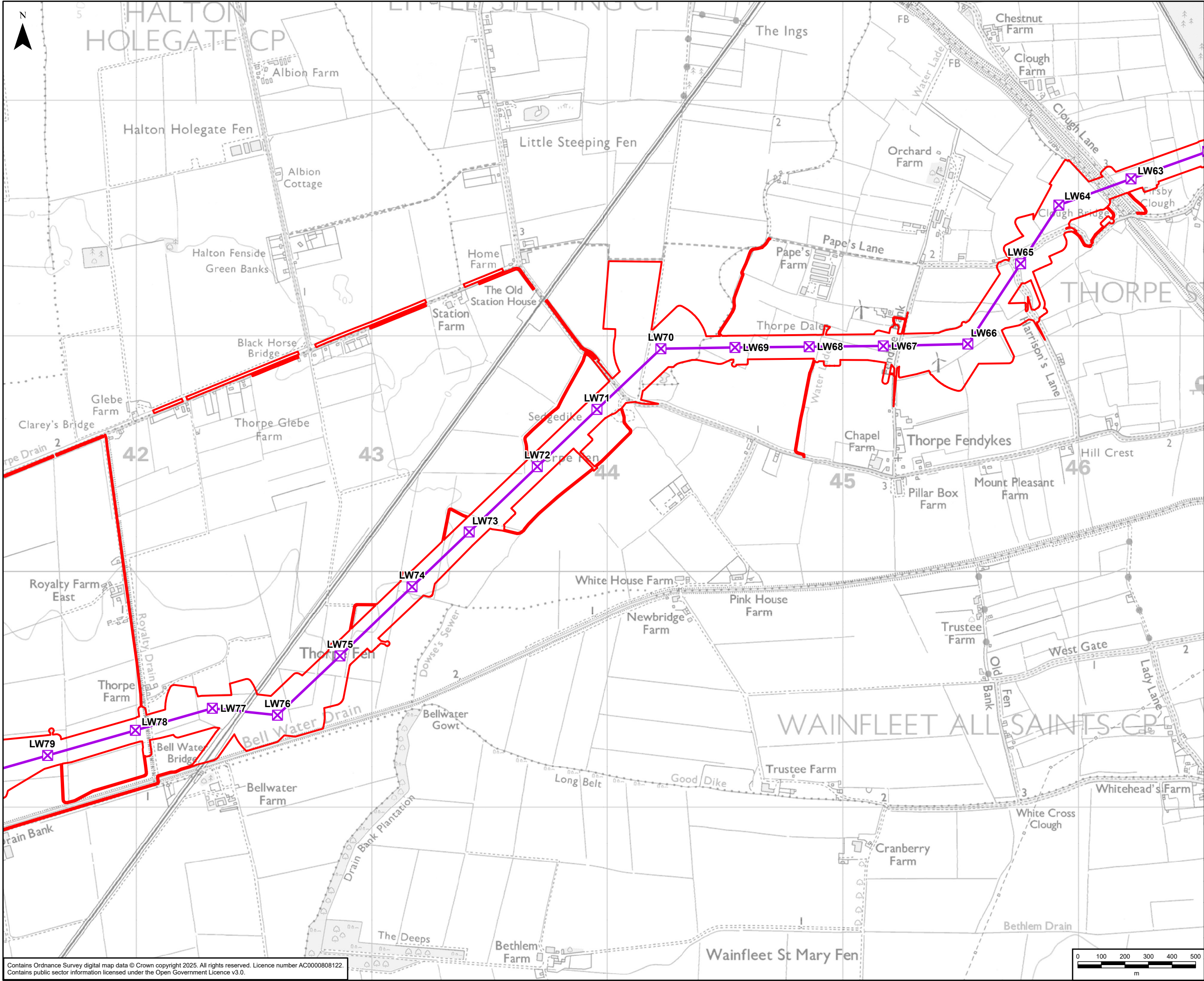
GRIMSBY TO WALPOLE LEGEND

Legend

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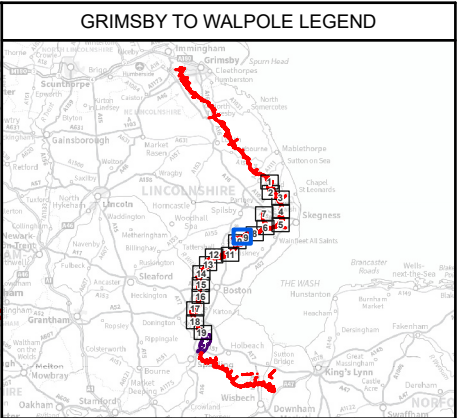
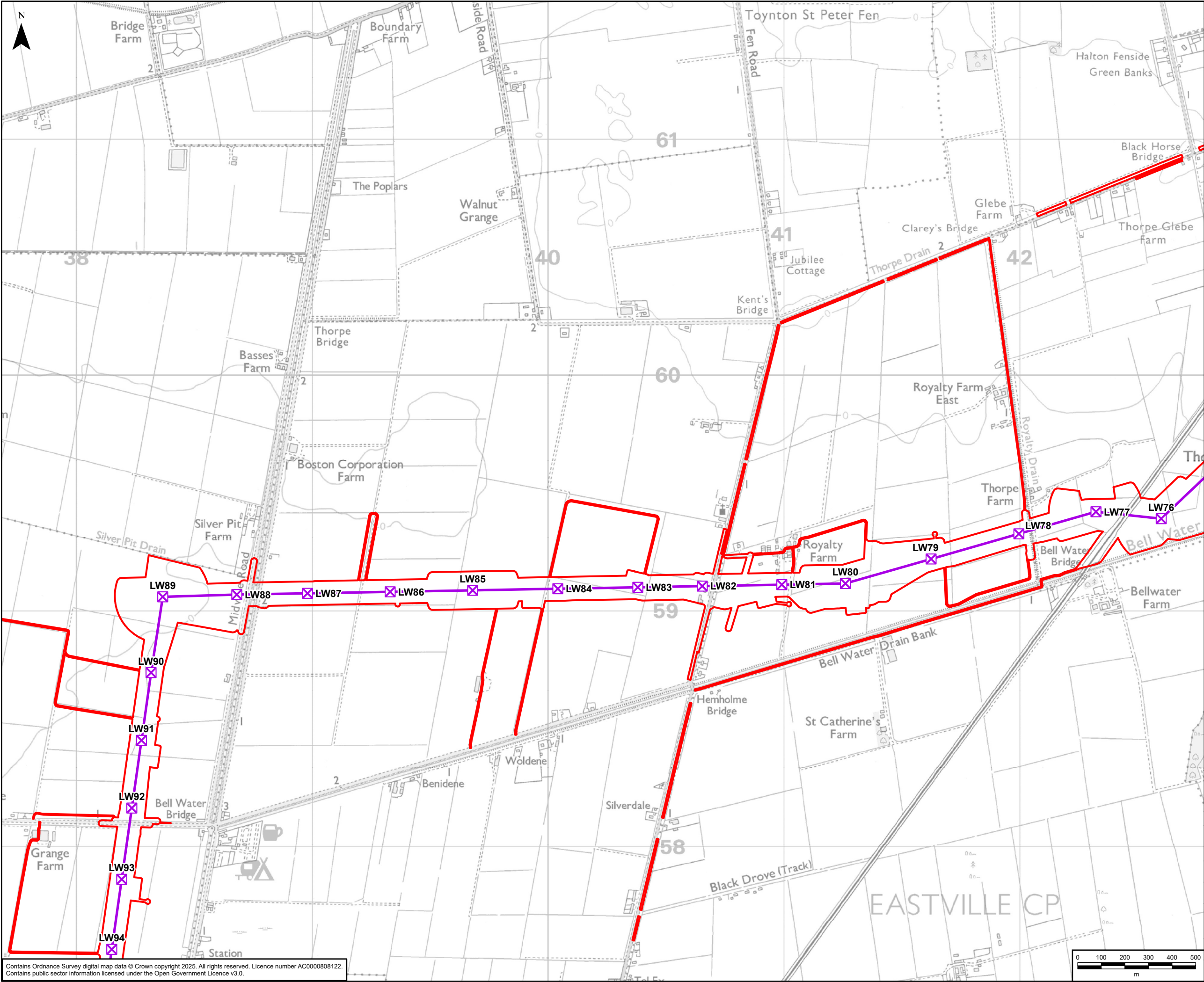
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- Legend**
- Draft Order Limits
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line

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Rev	Date	Description	GIS	Chk	App
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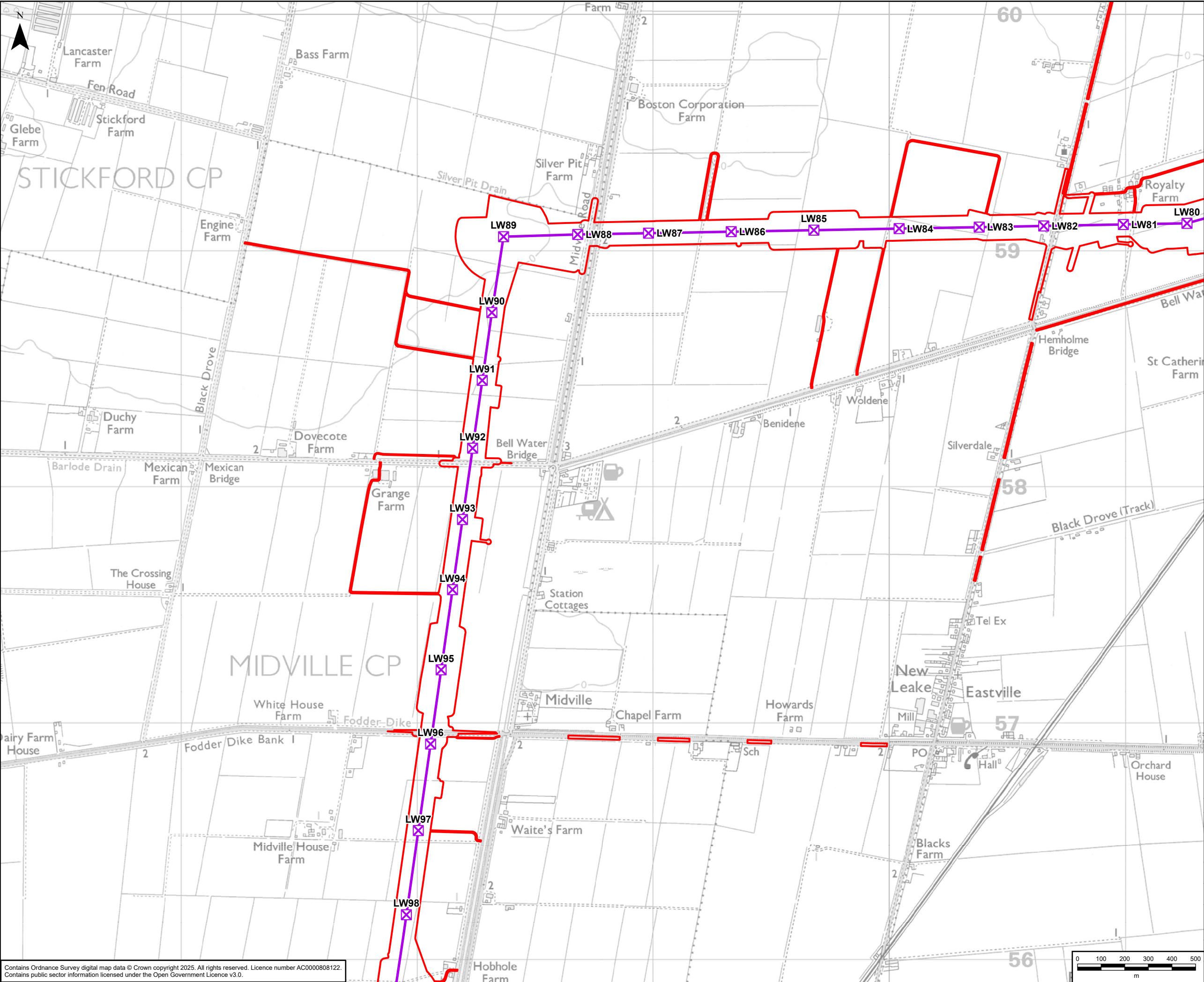
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- Legend**
- Draft Order Limits
 - ✕ Indicative New Lattice Pylon
 - Indicative New Overhead Line

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GRIMSBY TO WALPOLE LEGEND

Legend

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

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Purpose:

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GRIMSBY TO WALPOLE

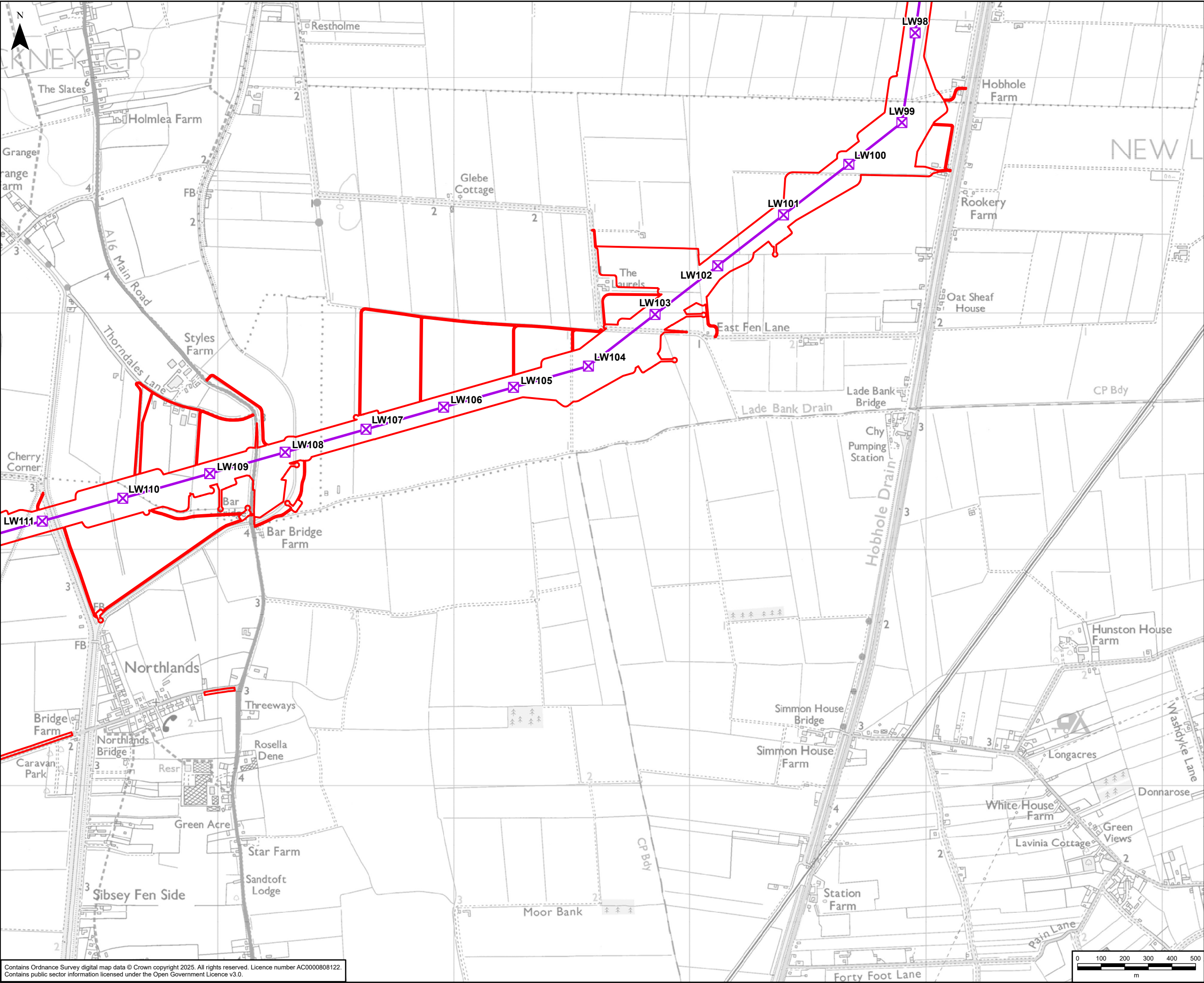
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NOISE AND VIBRATION BASELINE

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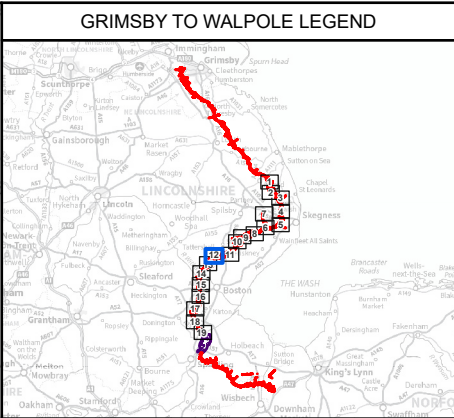
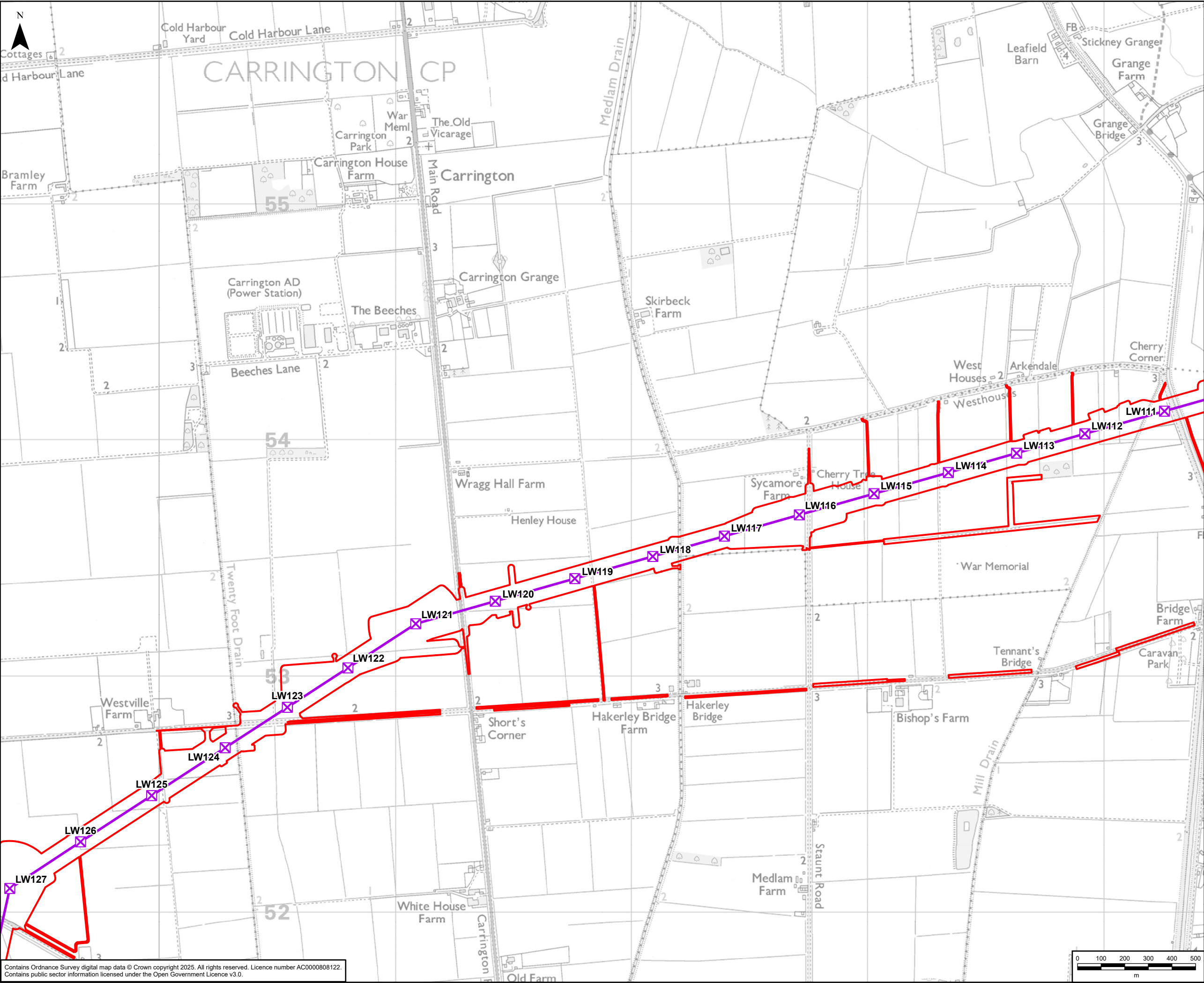
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- Draft Order Limits
- ✕ Indicative New Lattice Pylon
- Indicative New Overhead Line

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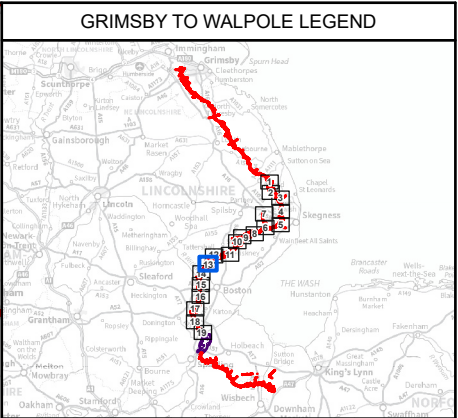
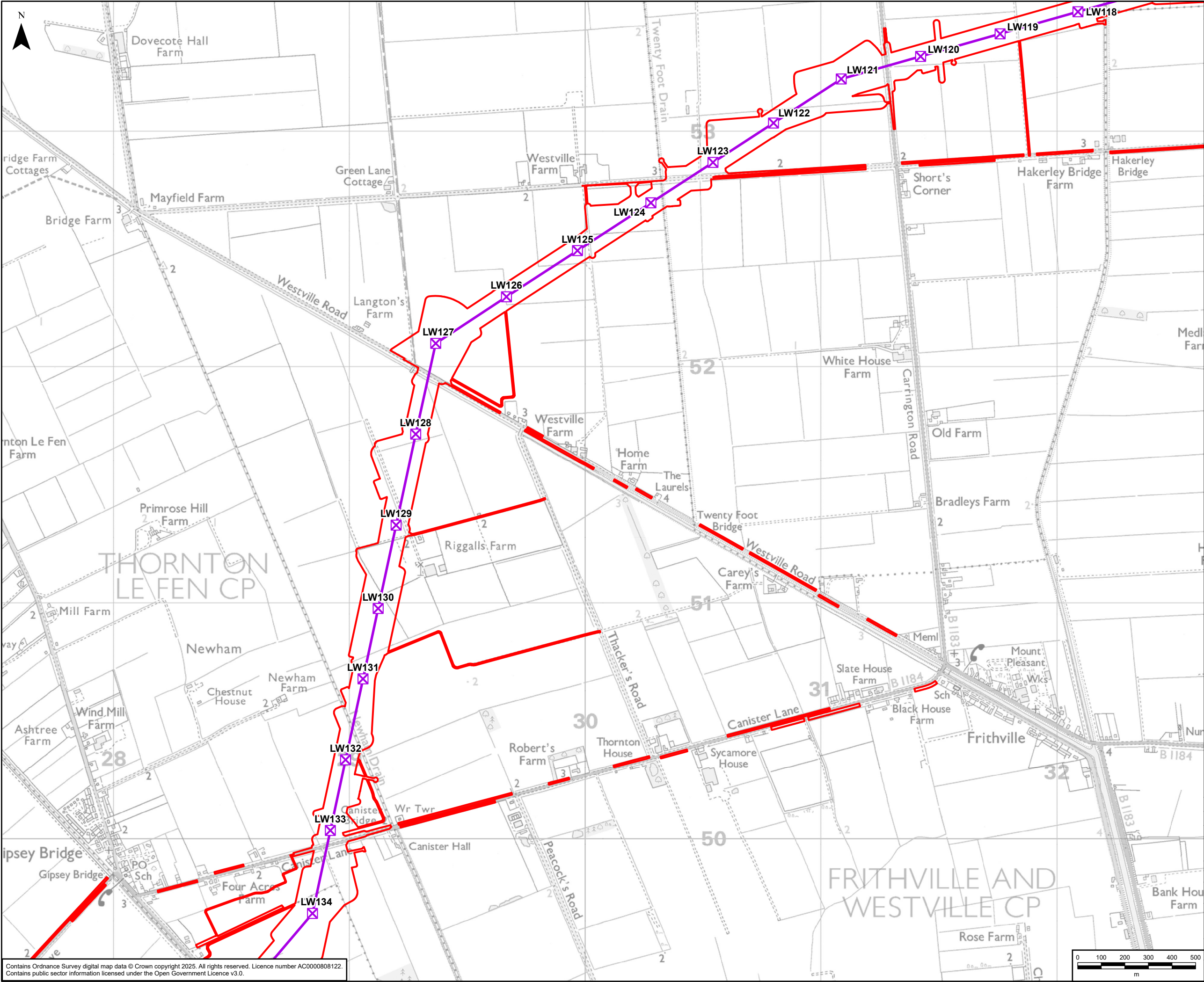
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- Legend
- Draft Order Limits
 - X Indicative New Lattice Pylon
 - Indicative New Overhead Line

A	09/05/2025	First Issue	LC	DG	DR
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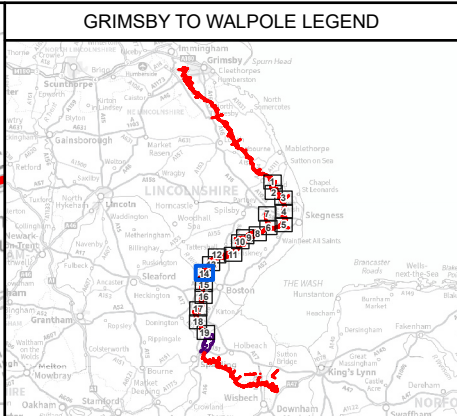
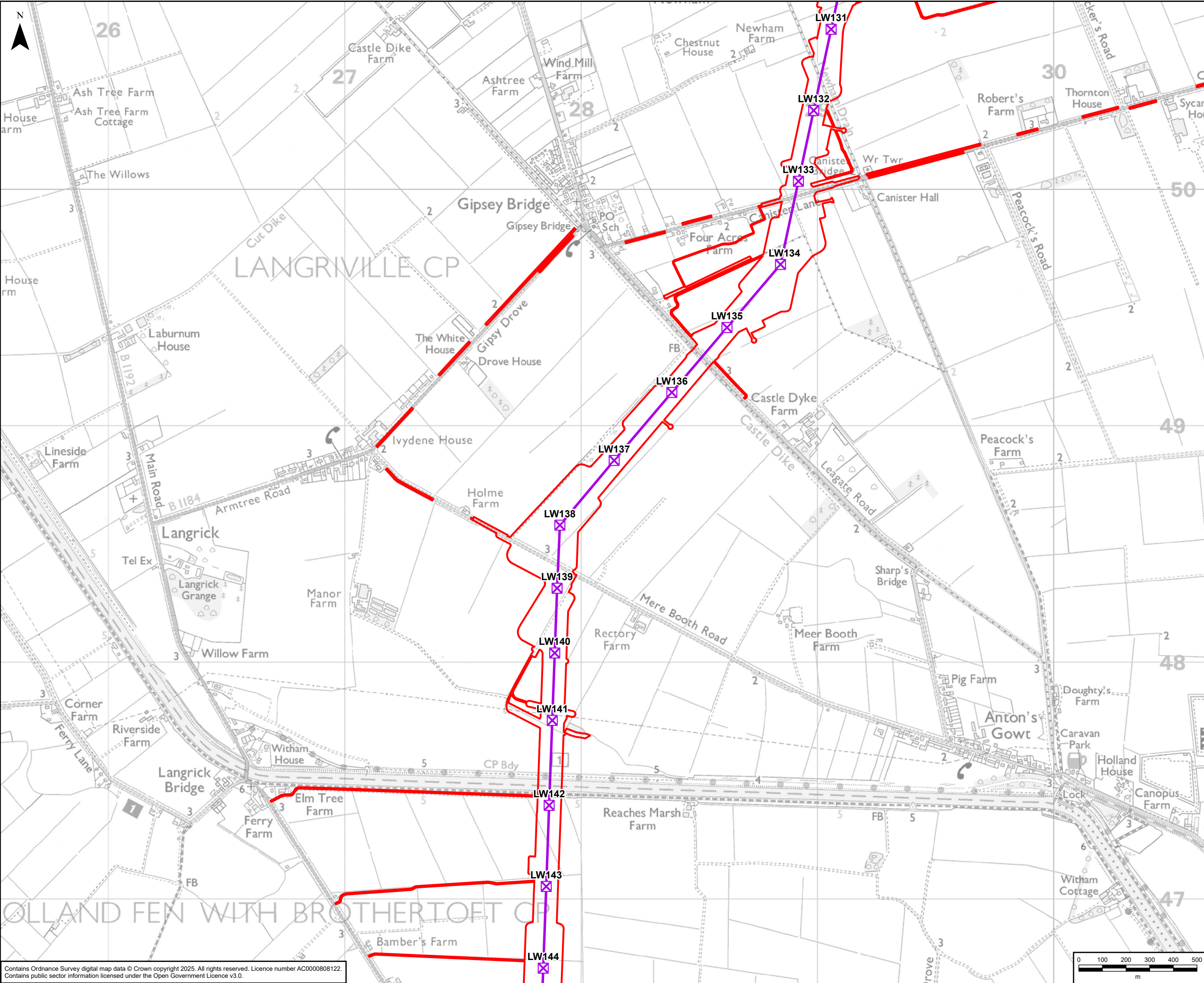
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- Legend
- Draft Order Limits
 - X Indicative New Lattice Pylon
 - Indicative New Overhead Line

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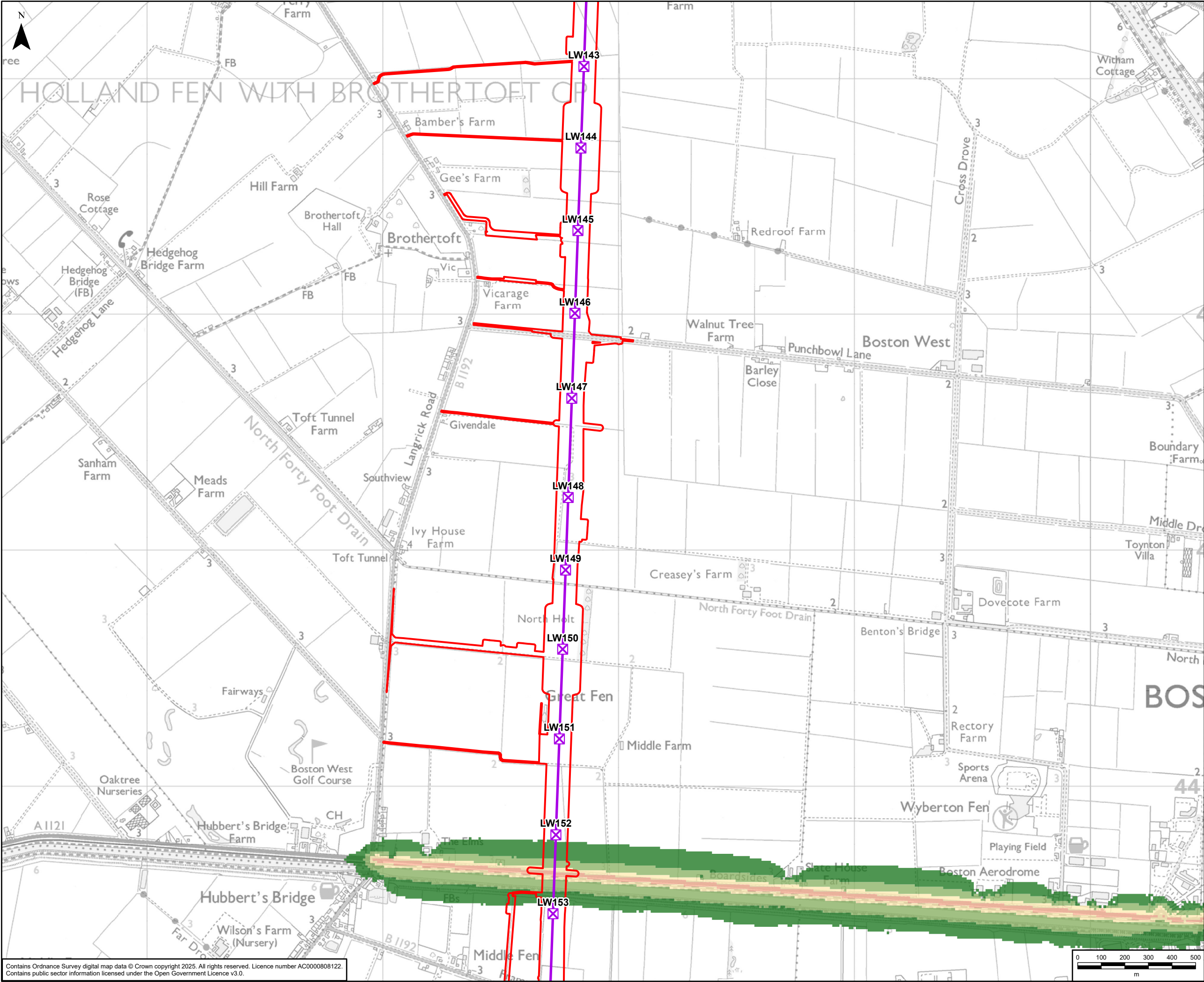
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- Legend
- Draft Order Limits
 - X Indicative New Lattice Pylon
 - Indicative New Overhead Line

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GRIMSBY TO WALPOLE LEGEND

Legend

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

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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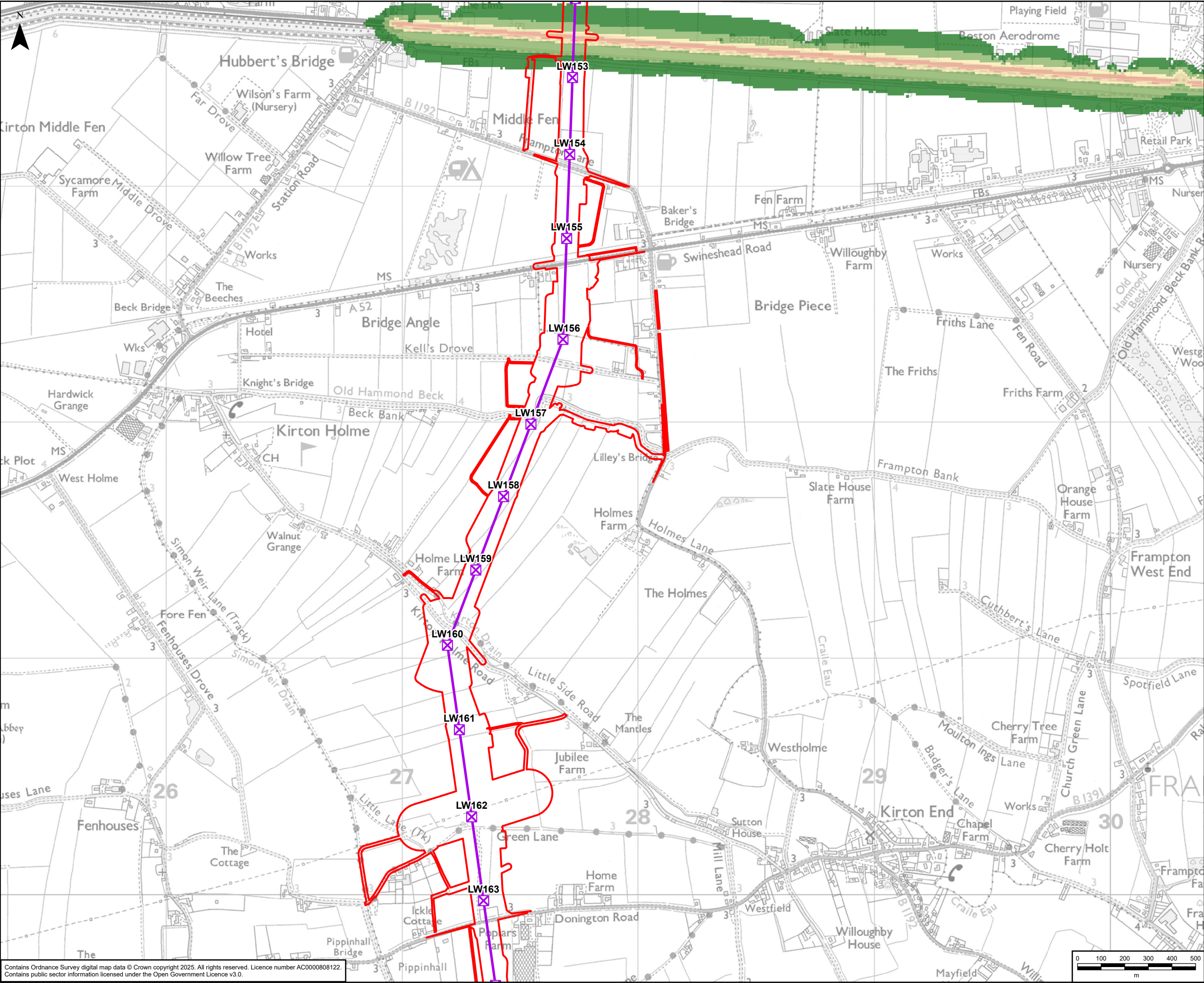
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GRIMSBY TO WALPOLE LEGEND

Legend

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

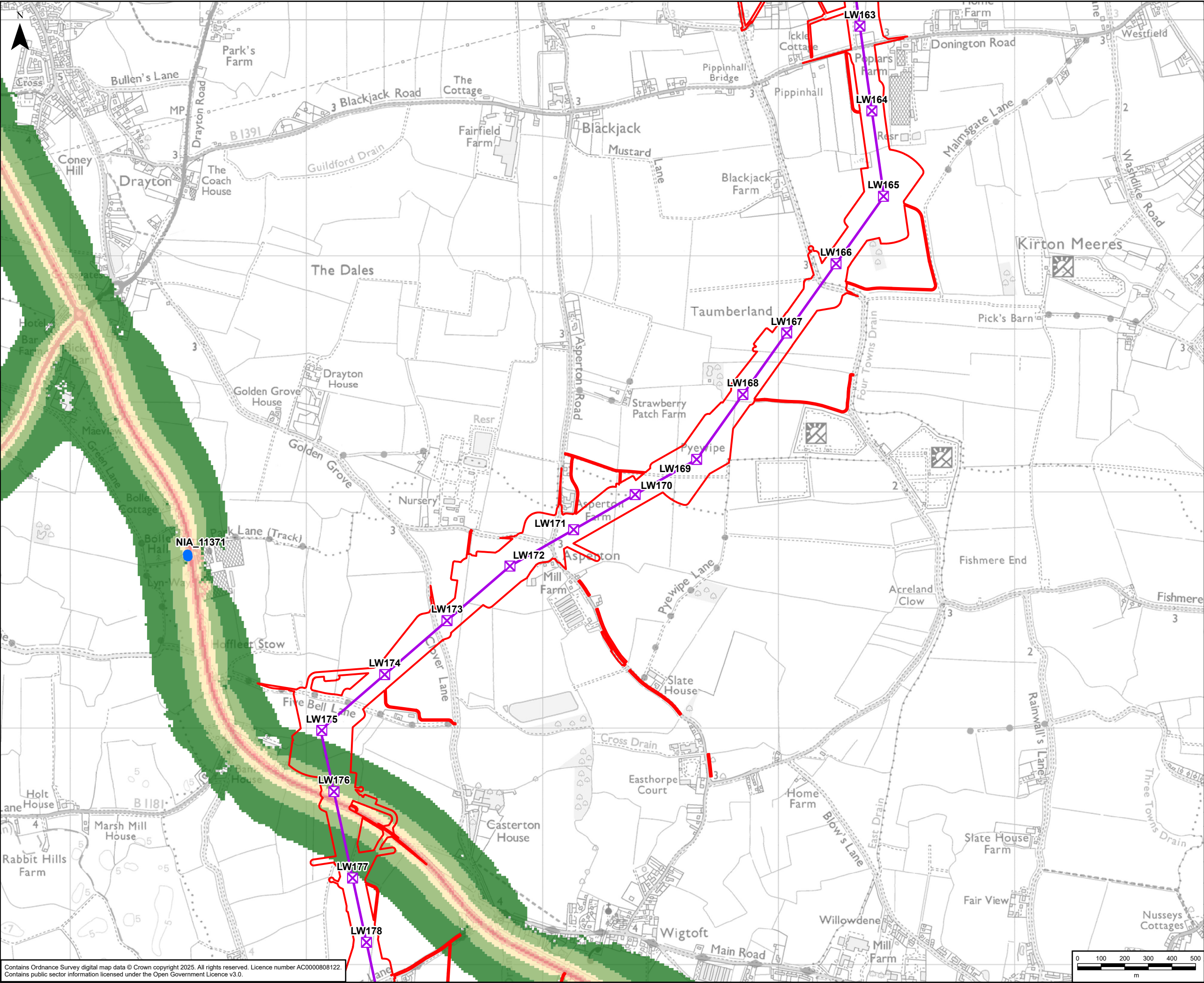
Defra Noise Data (Road) - dBA

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

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Rev	Date	Description	GIS	Chk	App

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GRIMSBY TO WALPOLE LEGEND

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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Rev	Date	Description	GIS	Chk	App

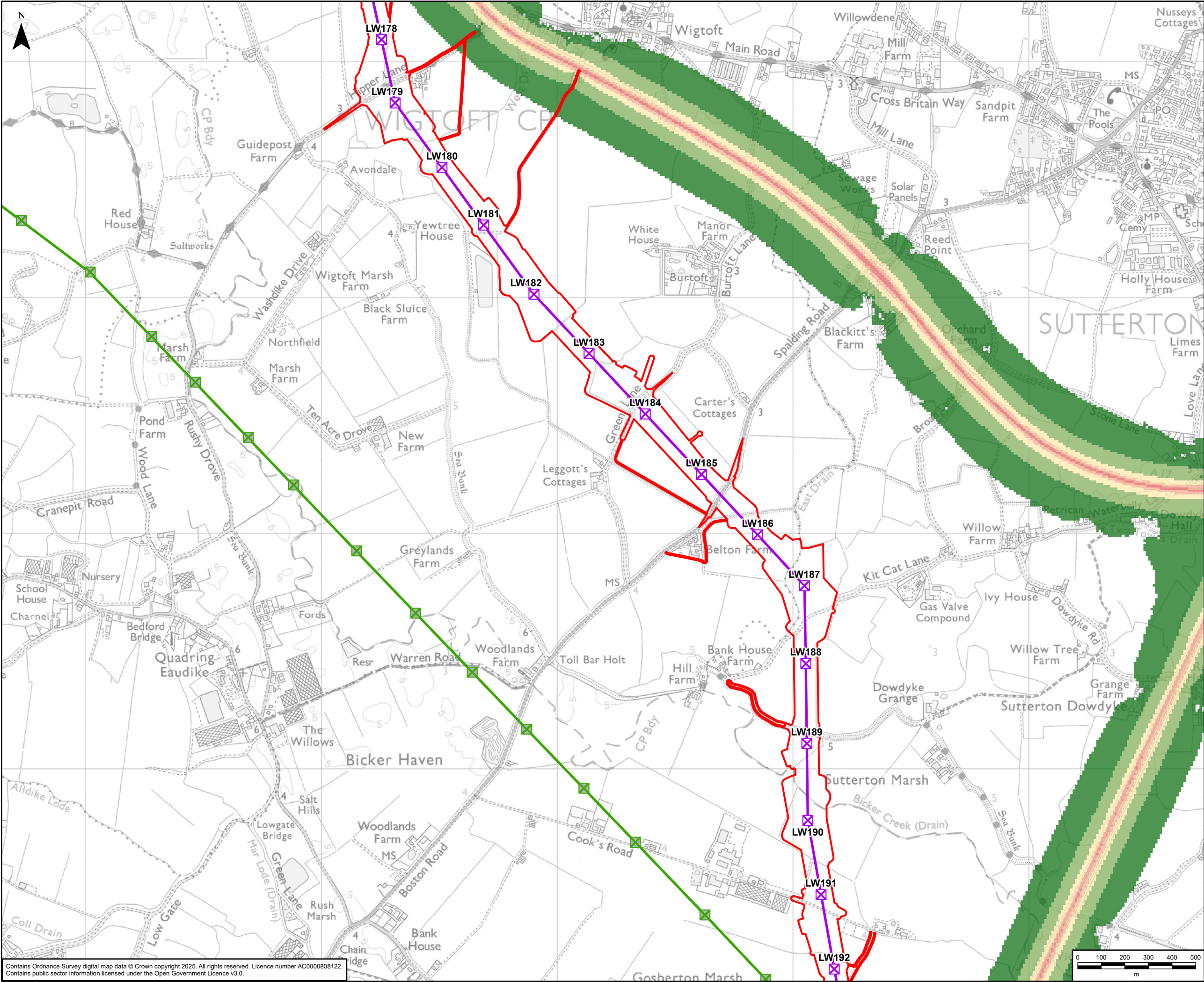
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected

Defra Noise Data (Road) - dBA

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

A	09/05/2025	First Issue	LC	DG	DR
Rev	Date	Description	GIS	Chk	App

Purpose:

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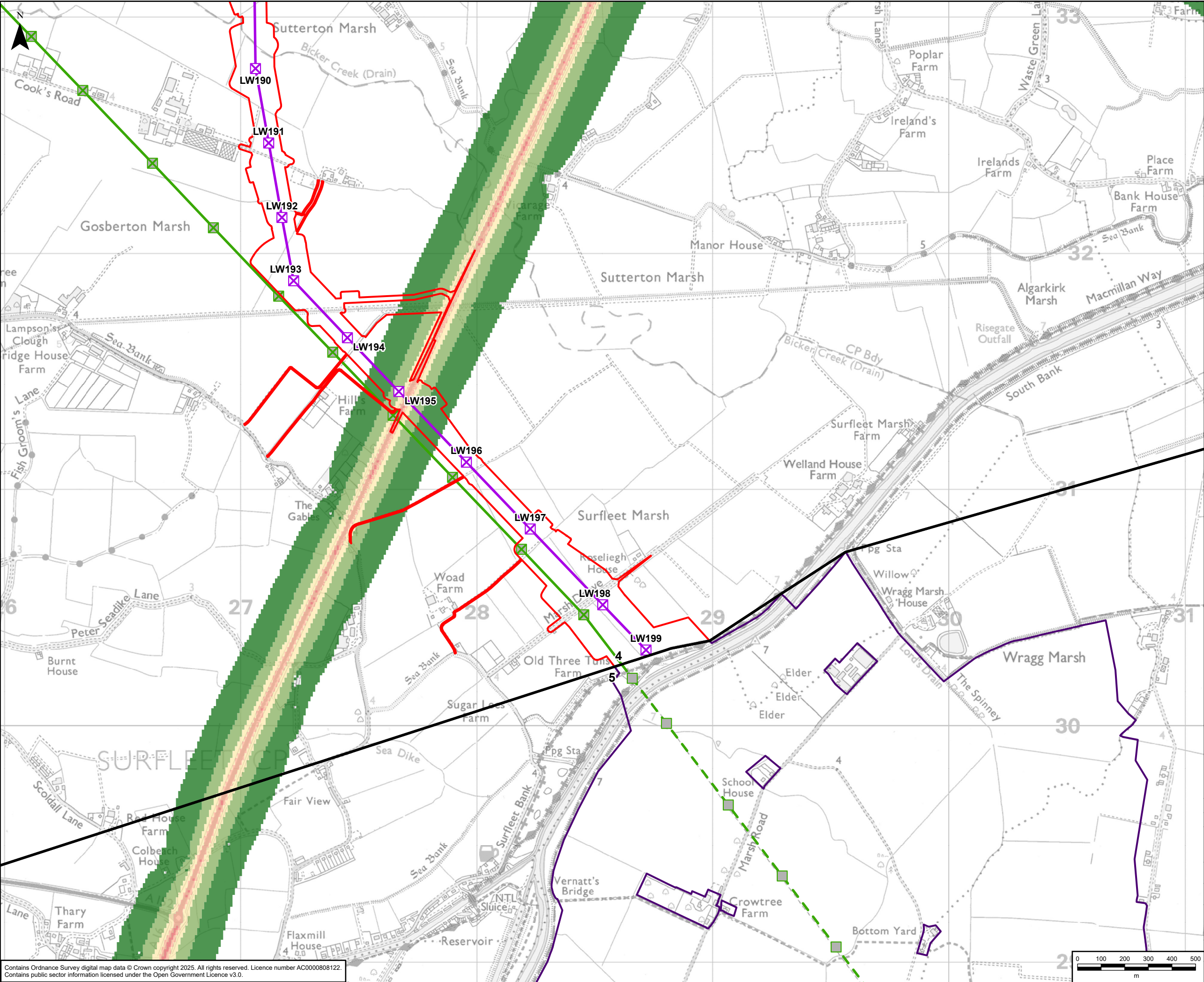
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NOISE AND VIBRATION BASELINE

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FIGURE	1:15,000	A3	18 OF 19	A

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Refined Weston Marsh Substation Siting Zone
- Route Section Break
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Within Weston Marsh Siting Zone that May Be Modified
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Existing Overhead Line - Within Weston Marsh Siting Zone that May Be Modified

Defra Noise Data (Road) - dBA

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

A	09/05/2025	First Issue	LC	DG	DR
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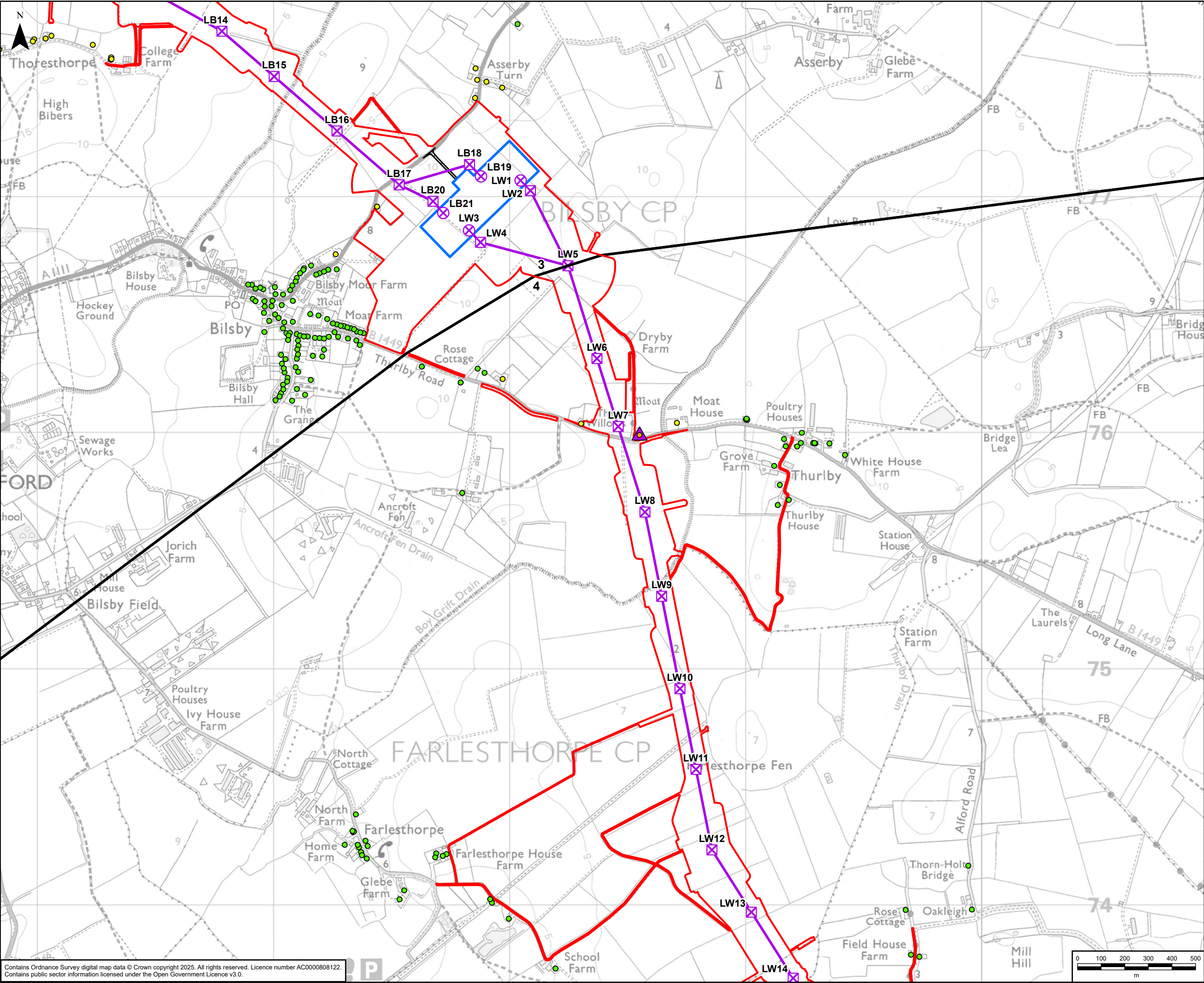
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NOISE AND VIBRATION BASELINE

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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
- Medium

Construction Noise Assessment

- Significant Adverse Effect - Residential

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Rev	Date	Description	GIS	Chk	App

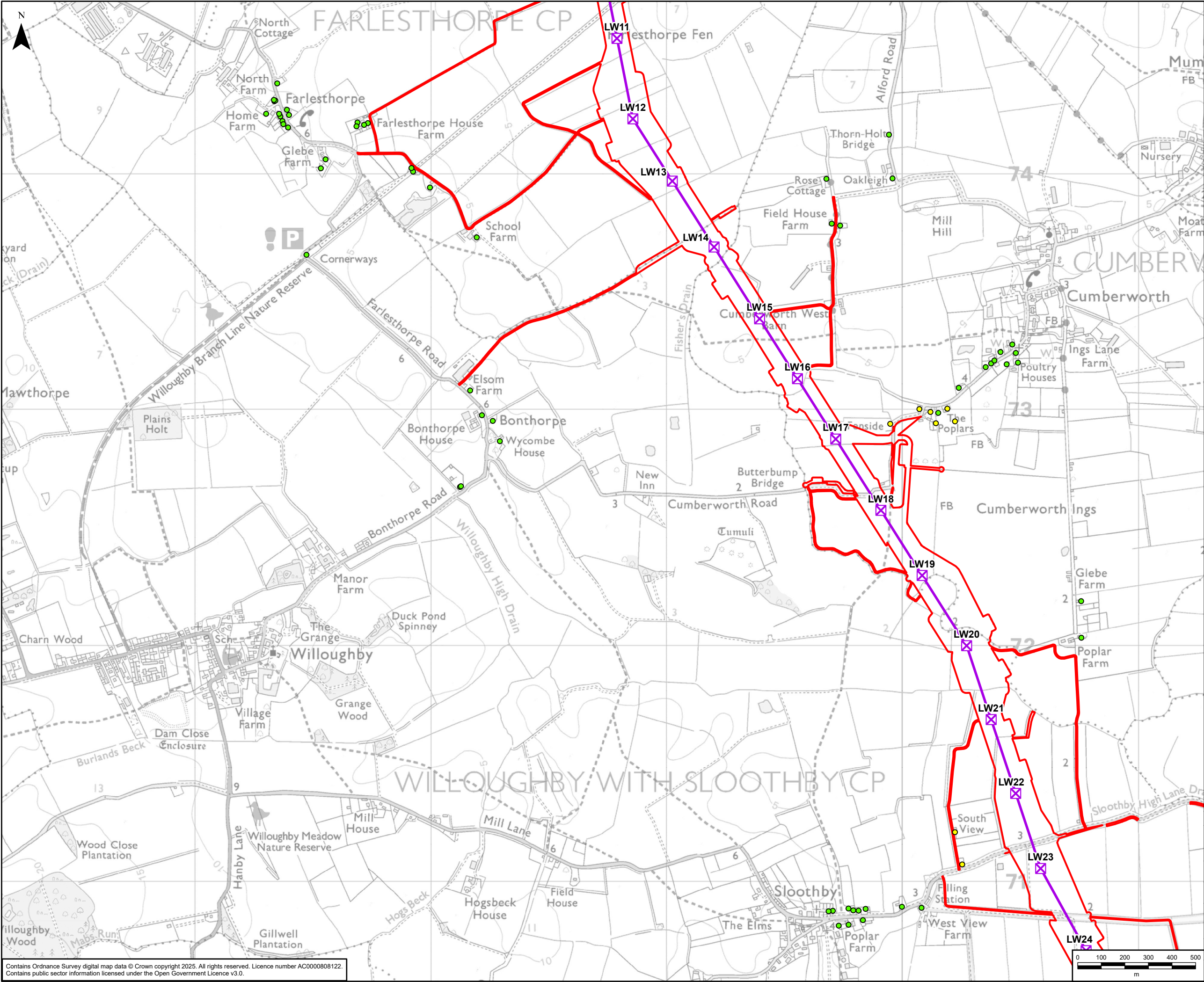
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INITIAL CONSTRUCTION NOISE ASSESSMENT OUTPUTS

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GRIMSBY TO WALPOLE LEGEND

Legend

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

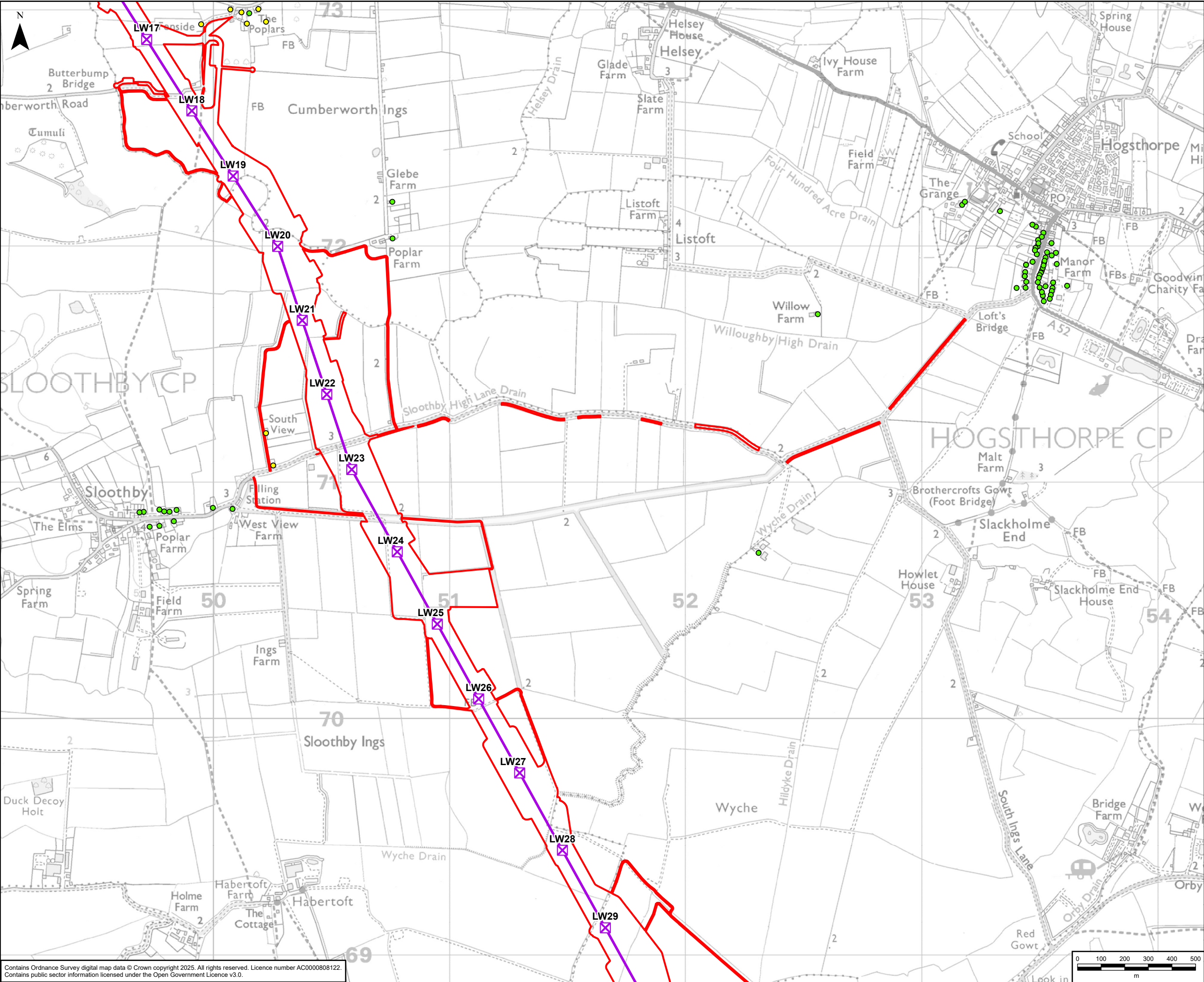
Construction Noise Levels

- Negligible
- Small

A	09/05/2025	First Issue	LC	DG	DR
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Purpose: PEI REPORT - SECTION 4					
Scheme: GRIMSBY TO WALPOLE					
Document Title: FIGURE 10.3 INITIAL CONSTRUCTION NOISE ASSESSMENT OUTPUTS					
Creator: LC	Date: 09/05/2025	Checker: DG	Date: 09/05/2025	Approver: DR	Date: 09/05/2025
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GRIMSBY TO WALPOLE LEGEND

Legend

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

Construction Noise Levels

- Negligible
- Small

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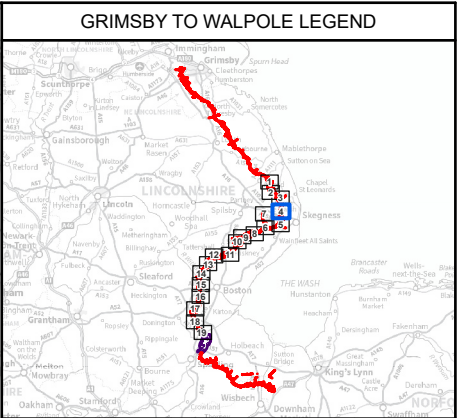
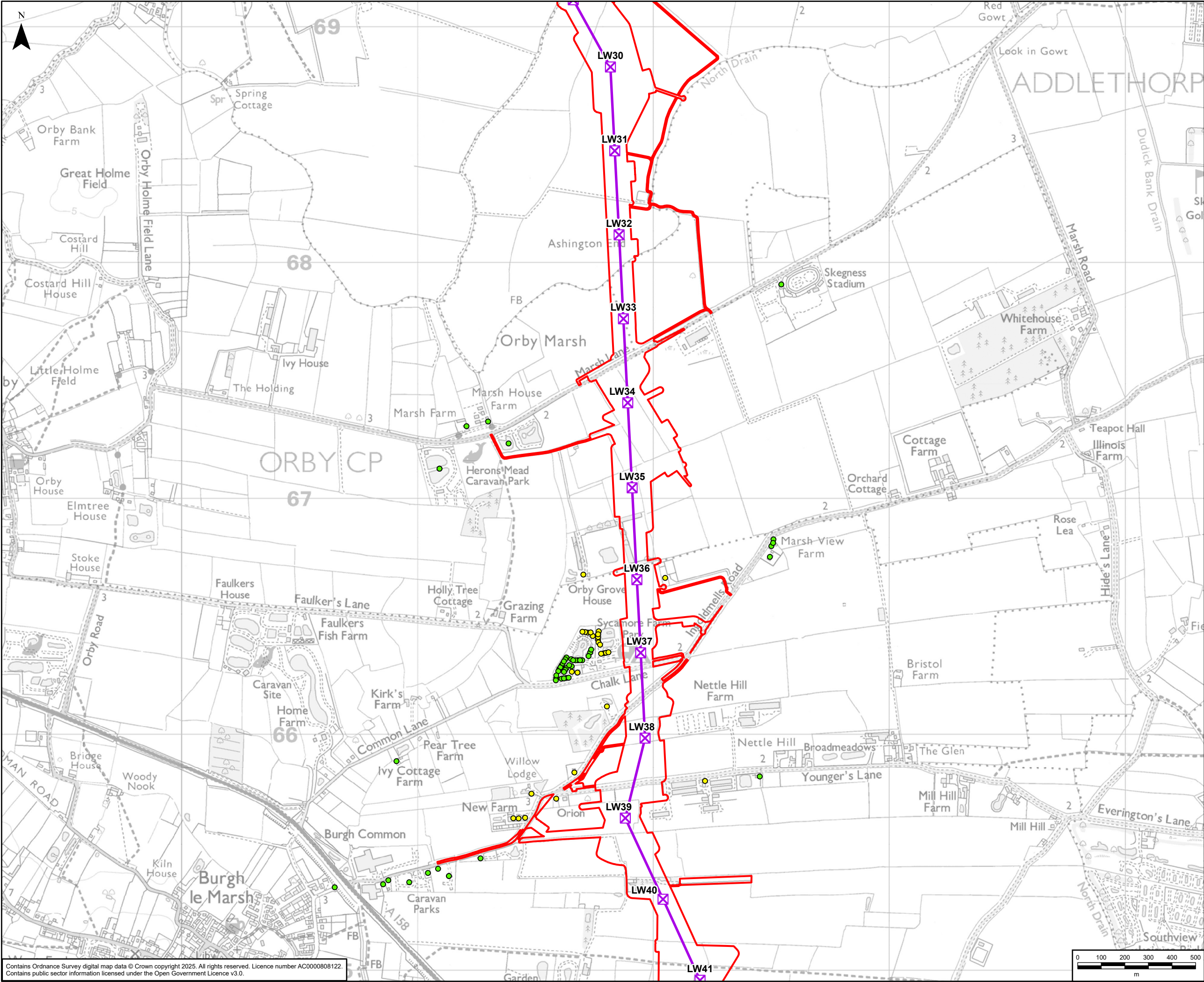
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Scheme: GRIMSBY TO WALPOLE

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GRIMSBY TO WALPOLE LEGEND

Legend

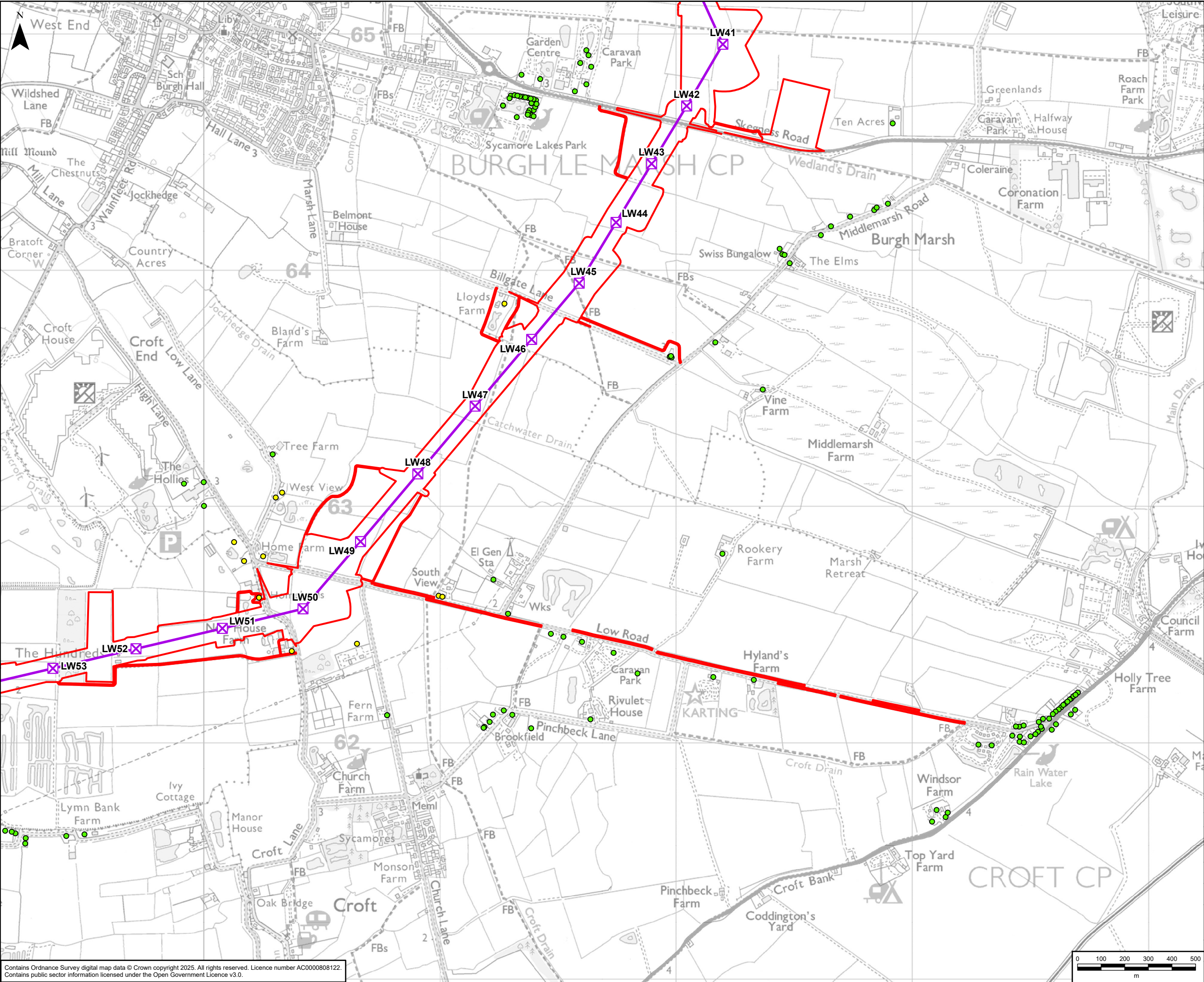
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- X Indicative New Lattice Pylon
- Indicative New Overhead Line

Construction Noise Levels

- Negligible
- Small

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Purpose:		PEI REPORT - SECTION 4			
Scheme:		GRIMSBY TO WALPOLE			
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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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PEI REPORT - SECTION 4

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GRIMSBY TO WALPOLE

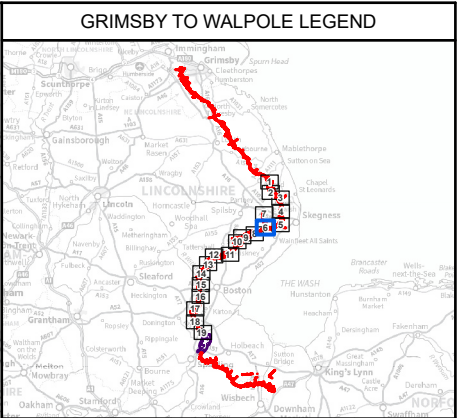
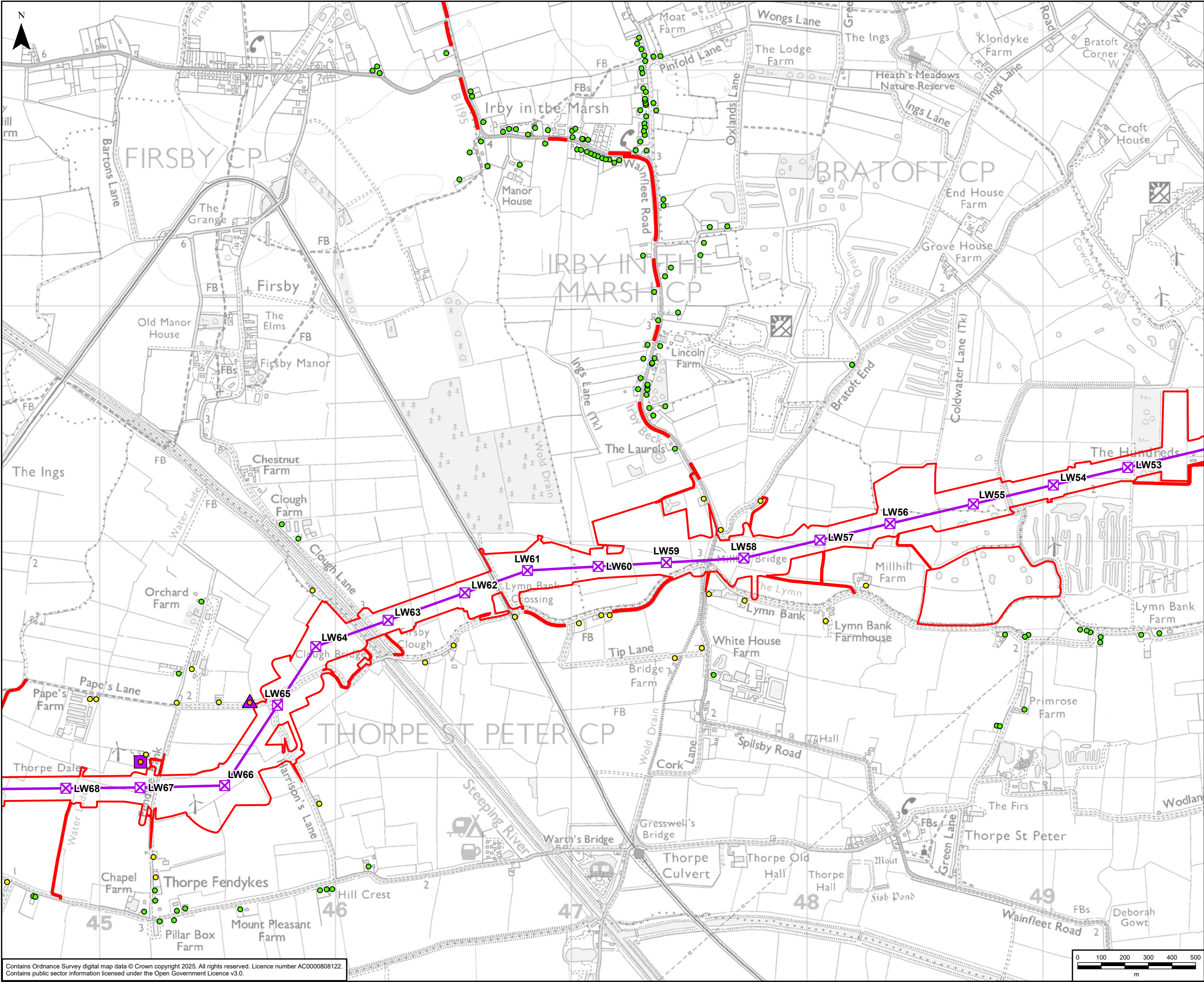
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INITIAL CONSTRUCTION NOISE ASSESSMENT OUTPUTS

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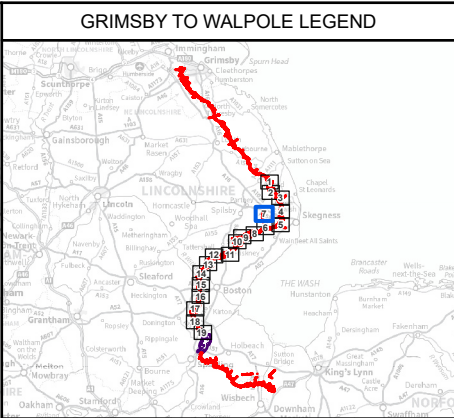
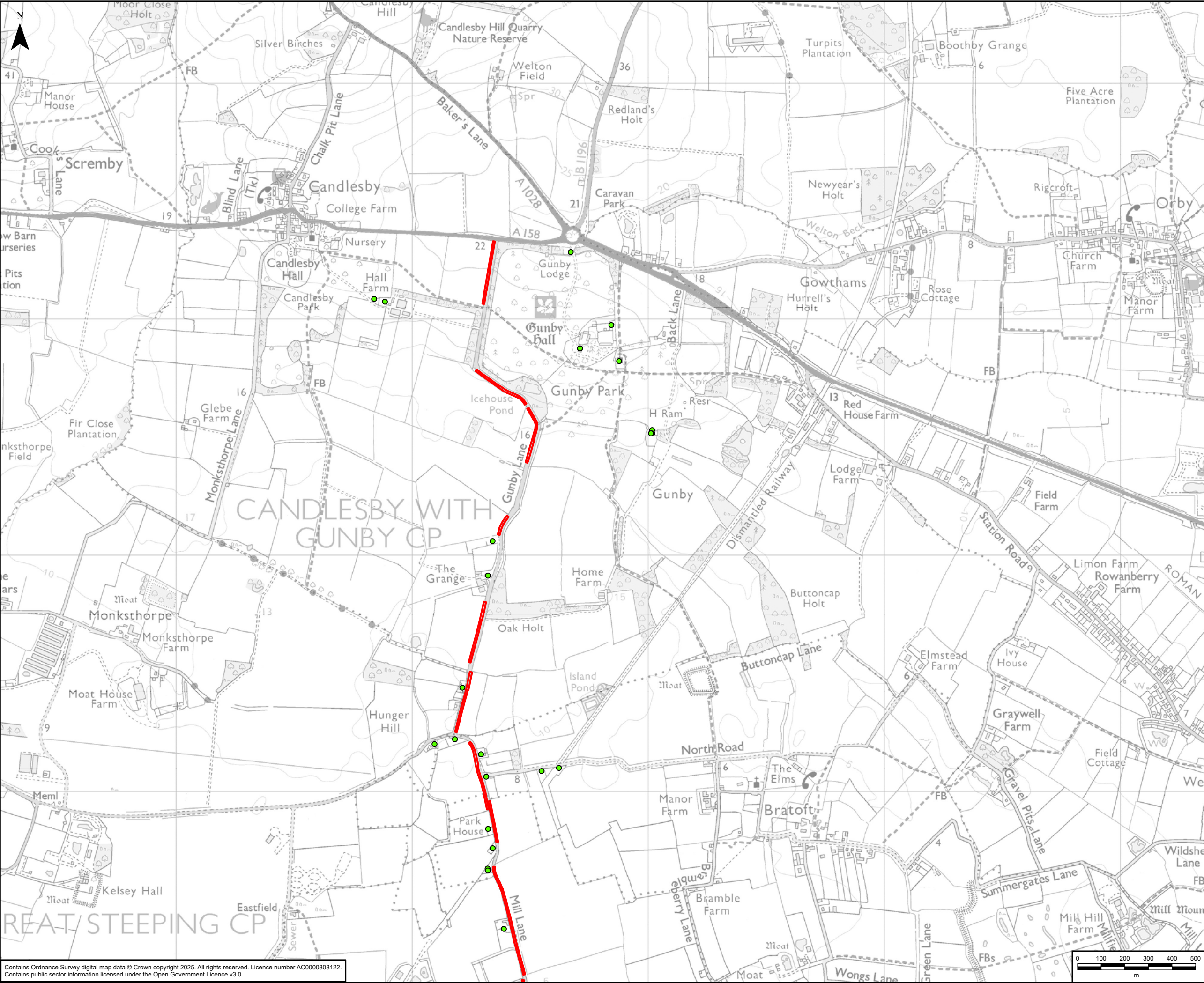


- Legend**
- Draft Order Limits
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Noise Levels**
- Negligible
 - Small
 - Medium
- Construction Noise Assessment**
- Significant Adverse Effect - Non-Residential
 - Significant Adverse Effect - Residential

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GRIMSBY TO WALPOLE LEGEND

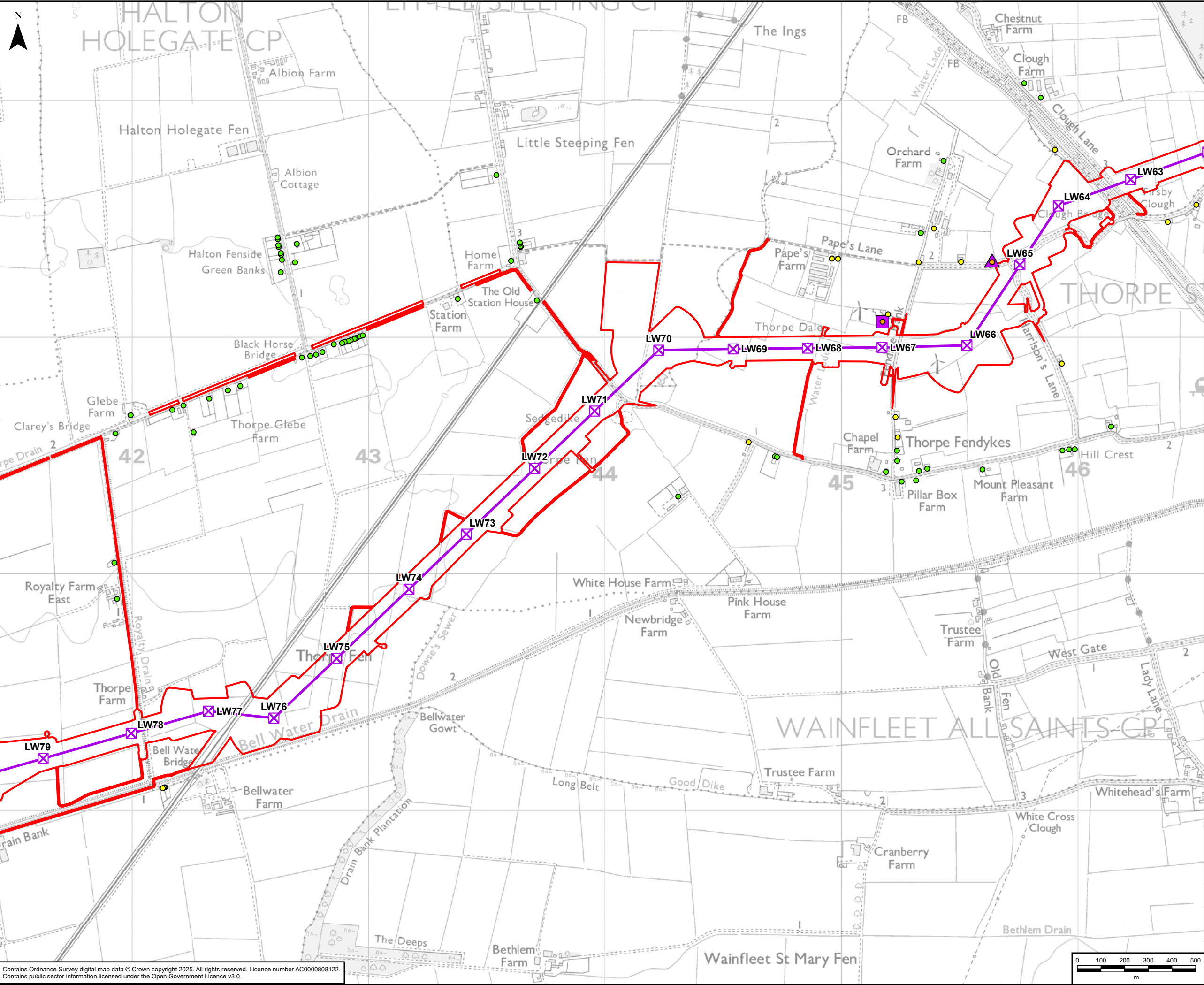
Legend

- Draft Order Limits
- Construction Noise Levels
- Negligible

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FIGURE	1:15,000	A3	7 OF 19	A	



GRIMSBY TO WALPOLE LEGEND

Legend

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

Construction Noise Levels

- Negligible
- Small
- Medium

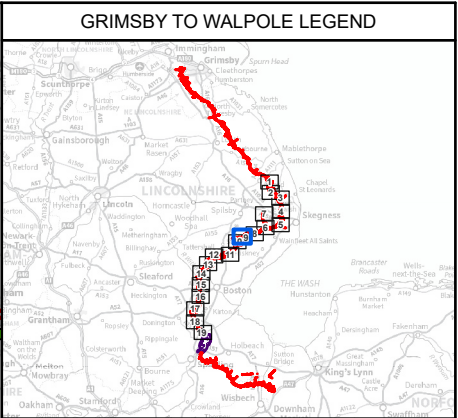
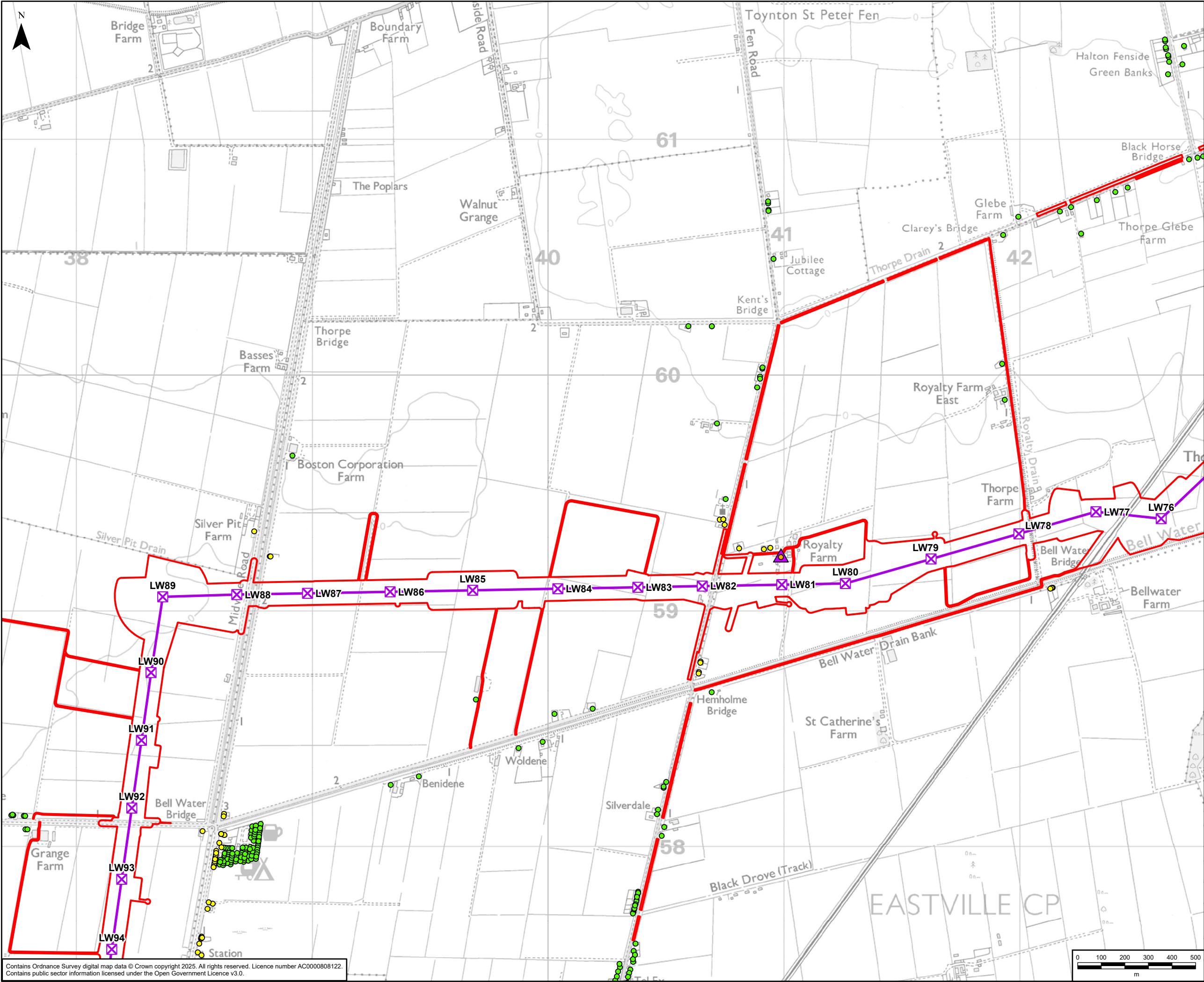
Construction Noise Assessment

- Significant Adverse Effect - Non-Residential
- Significant Adverse Effect - 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
- Medium

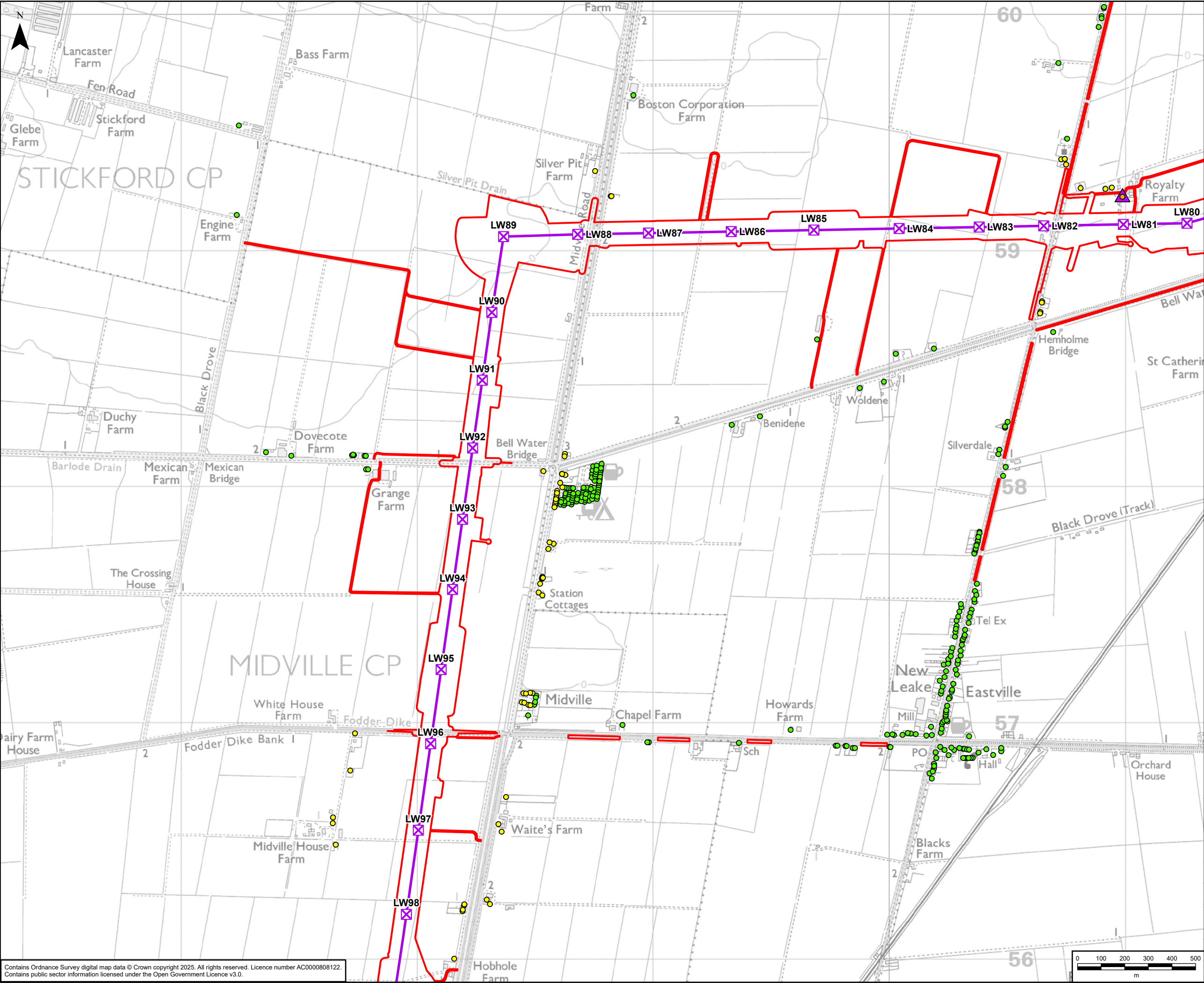
Construction Noise Assessment

- Significant Adverse Effect - Residential

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Document Type:	Scale:	Format:	Sheets:	Rev:	
FIGURE	1:15,000	A3	9 OF 19	A	



GRIMSBY TO WALPOLE LEGEND

Legend

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

Construction Noise Levels

- Negligible
- Small
- Medium

Construction Noise Assessment

- Significant Adverse Effect - Residential

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GRIMSBY TO WALPOLE

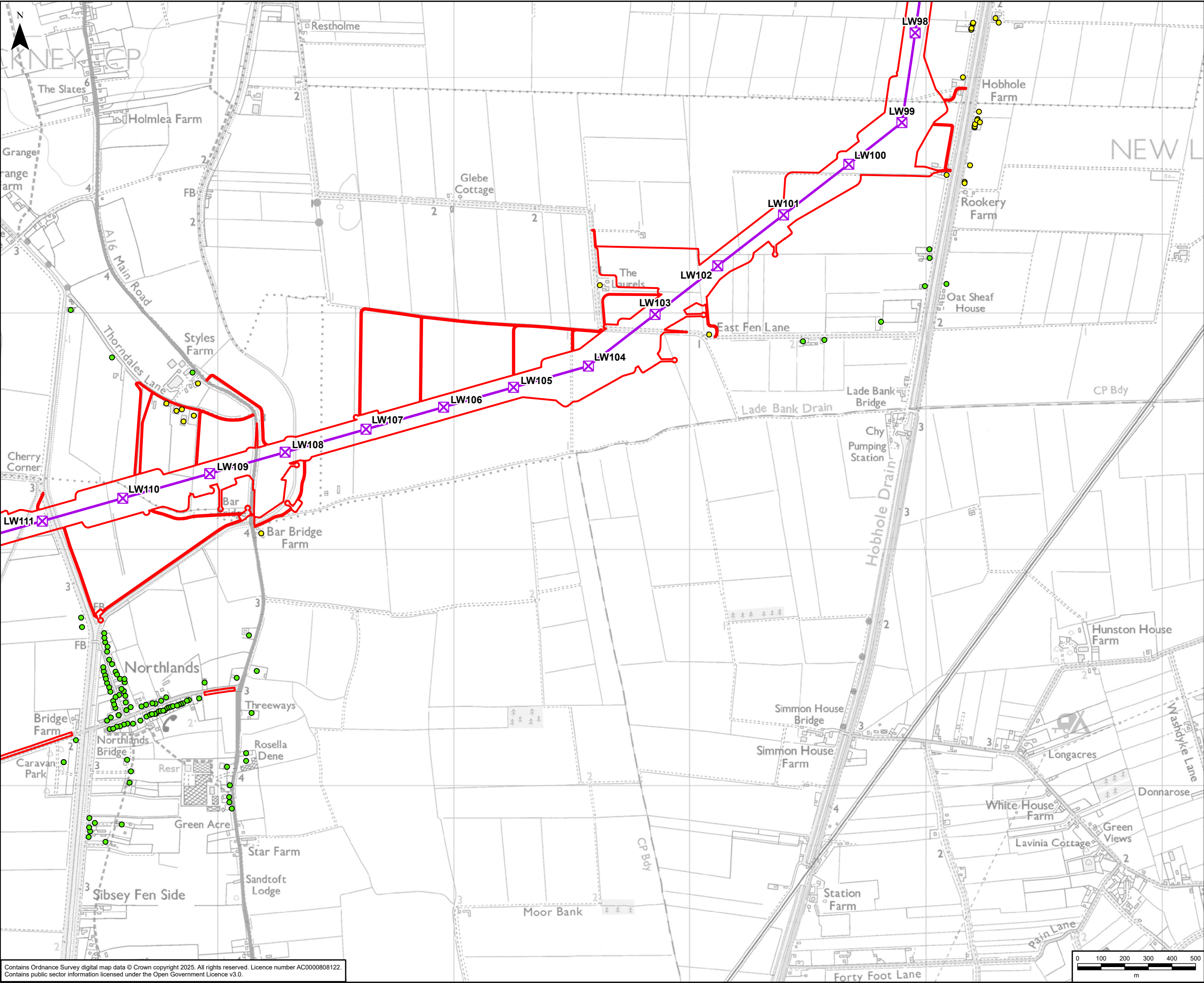
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GRIMSBY TO WALPOLE LEGEND

Legend

Draft Order Limits

Indicative New Lattice Pylon

Indicative New Overhead Line

Construction Noise Levels

Negligible

Small

A	09/05/2025	First Issue	LC	DG	DR
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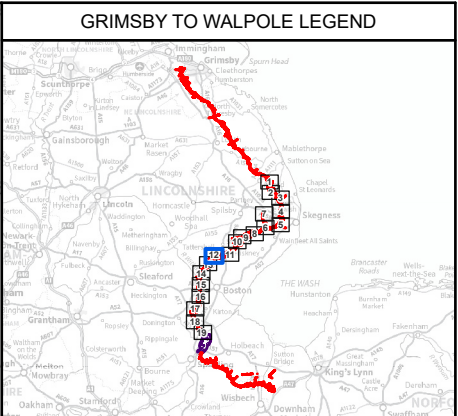
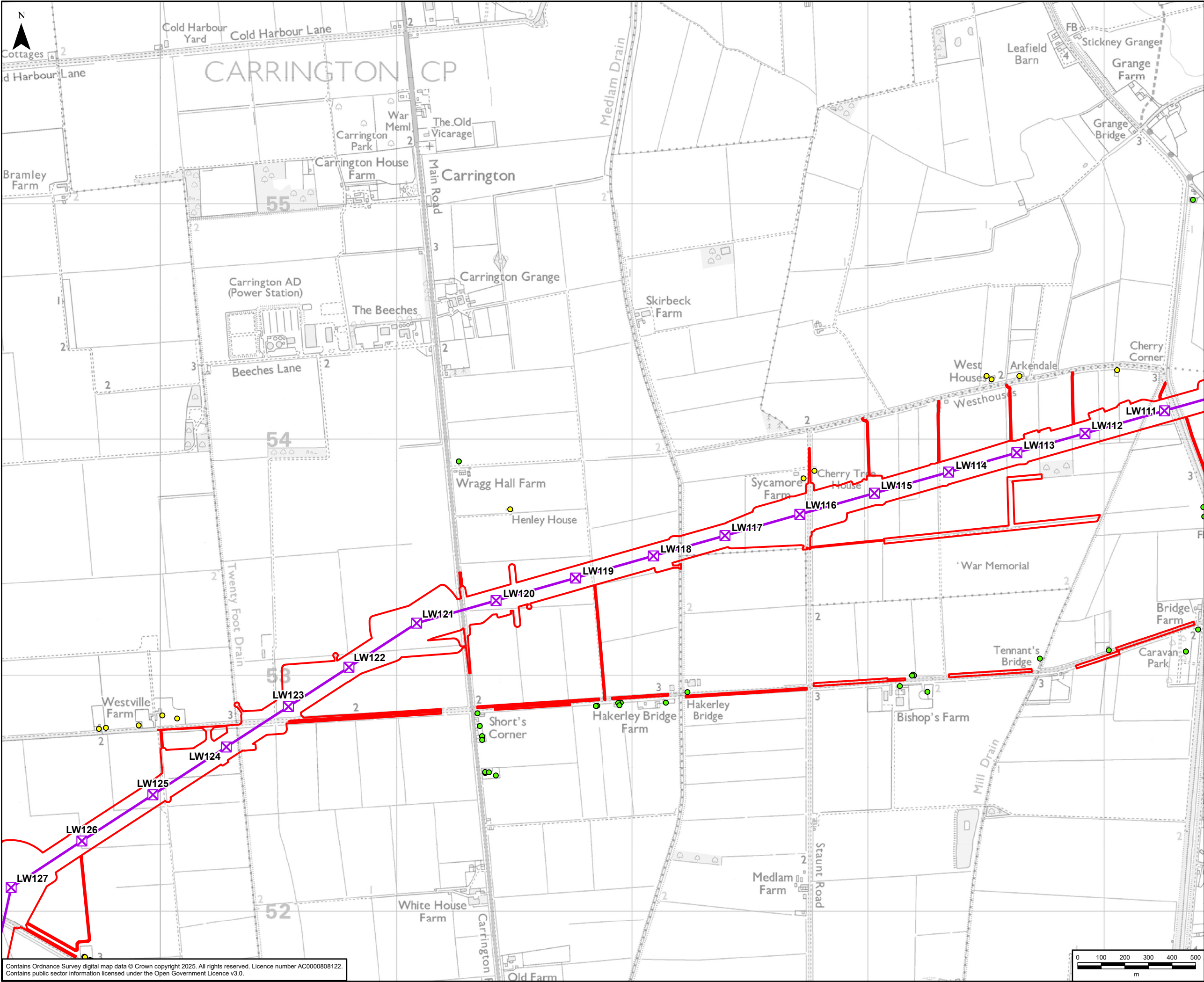
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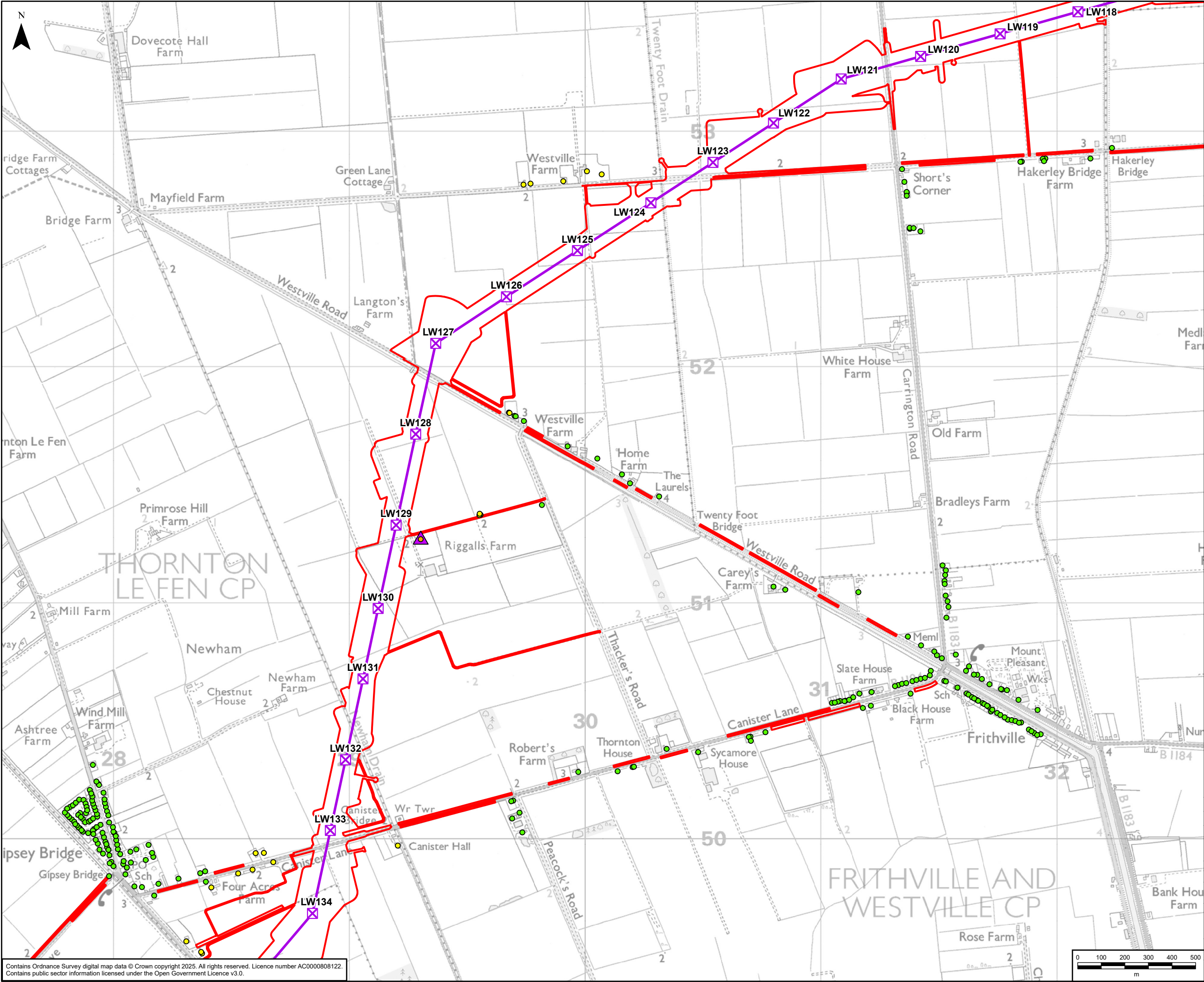


- Legend**
- Draft Order Limits
 - ✕ Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Noise Levels**
- Negligible
 - Small

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FIGURE	1:15,000	A3	12 OF 19	A	



GRIMSBY TO WALPOLE LEGEND

Legend

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

Construction Noise Levels

- Negligible
- Small
- Medium

Construction Noise Assessment

- Significant Adverse Effect - Residential

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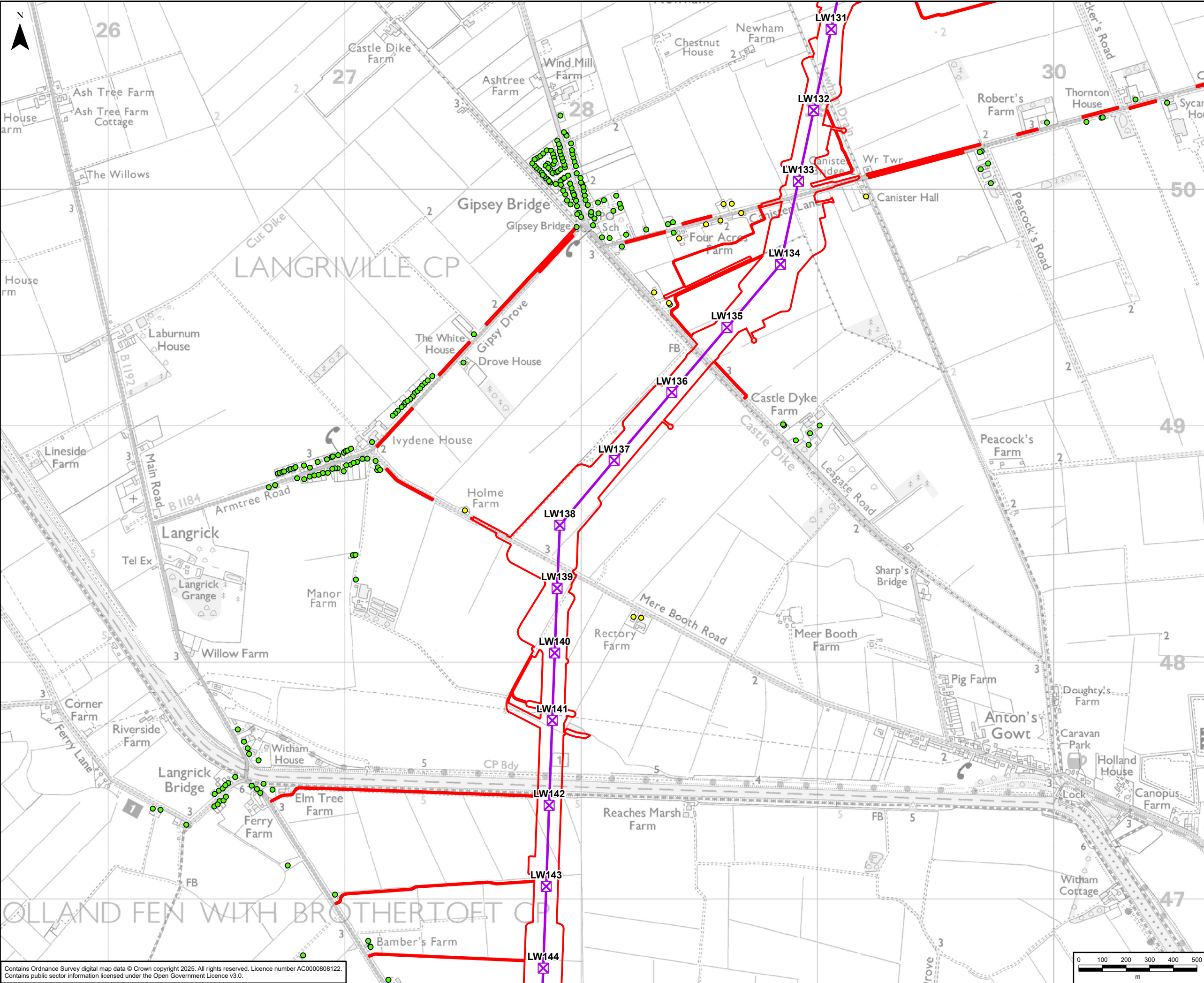
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GRIMSBY TO WALPOLE LEGEND

Legend

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

Construction Noise Levels

- Negligible
- Small

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

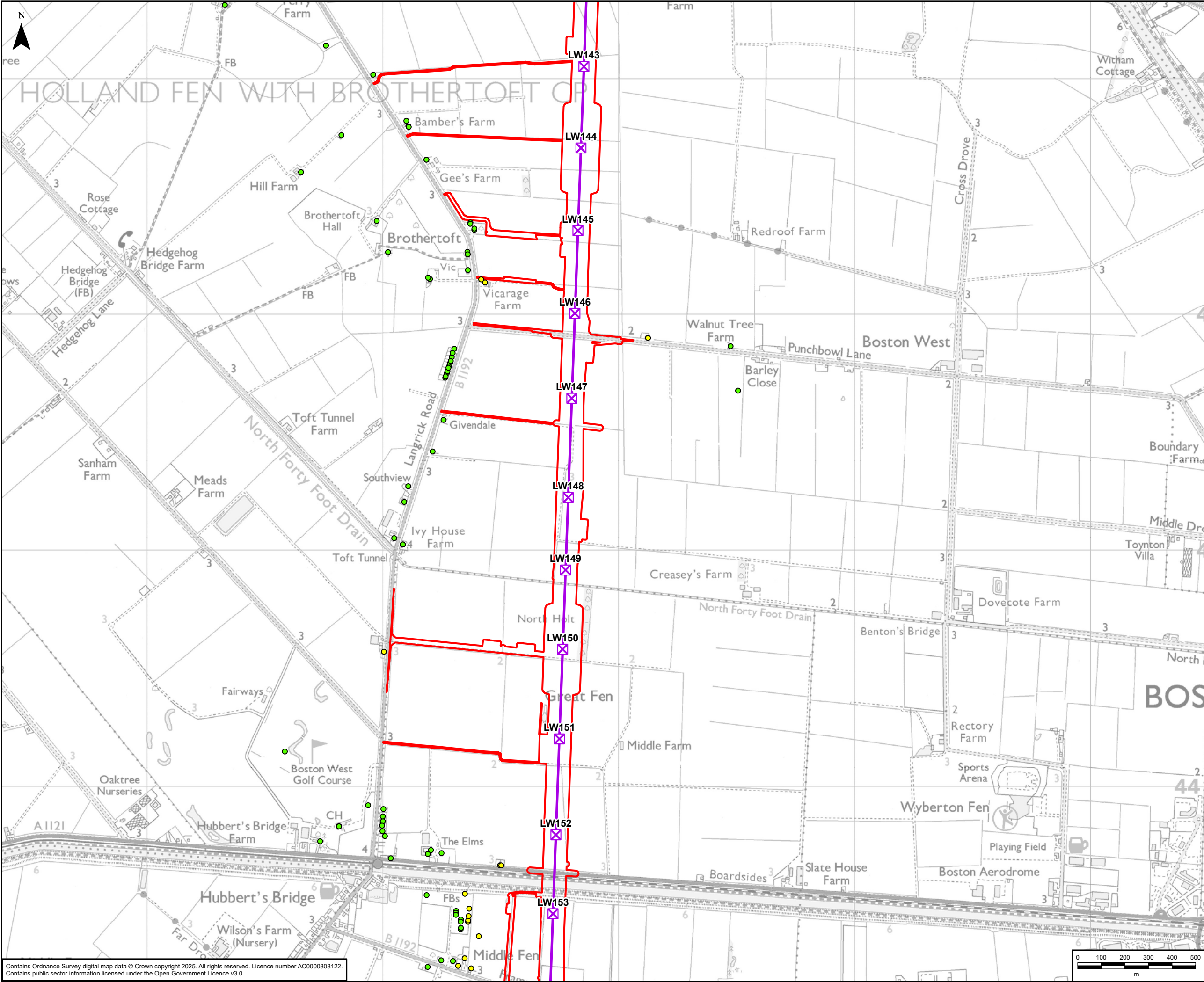
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FIGURE	1:15,000	A3	14 OF 19	A

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GRIMSBY TO WALPOLE LEGEND

Legend

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

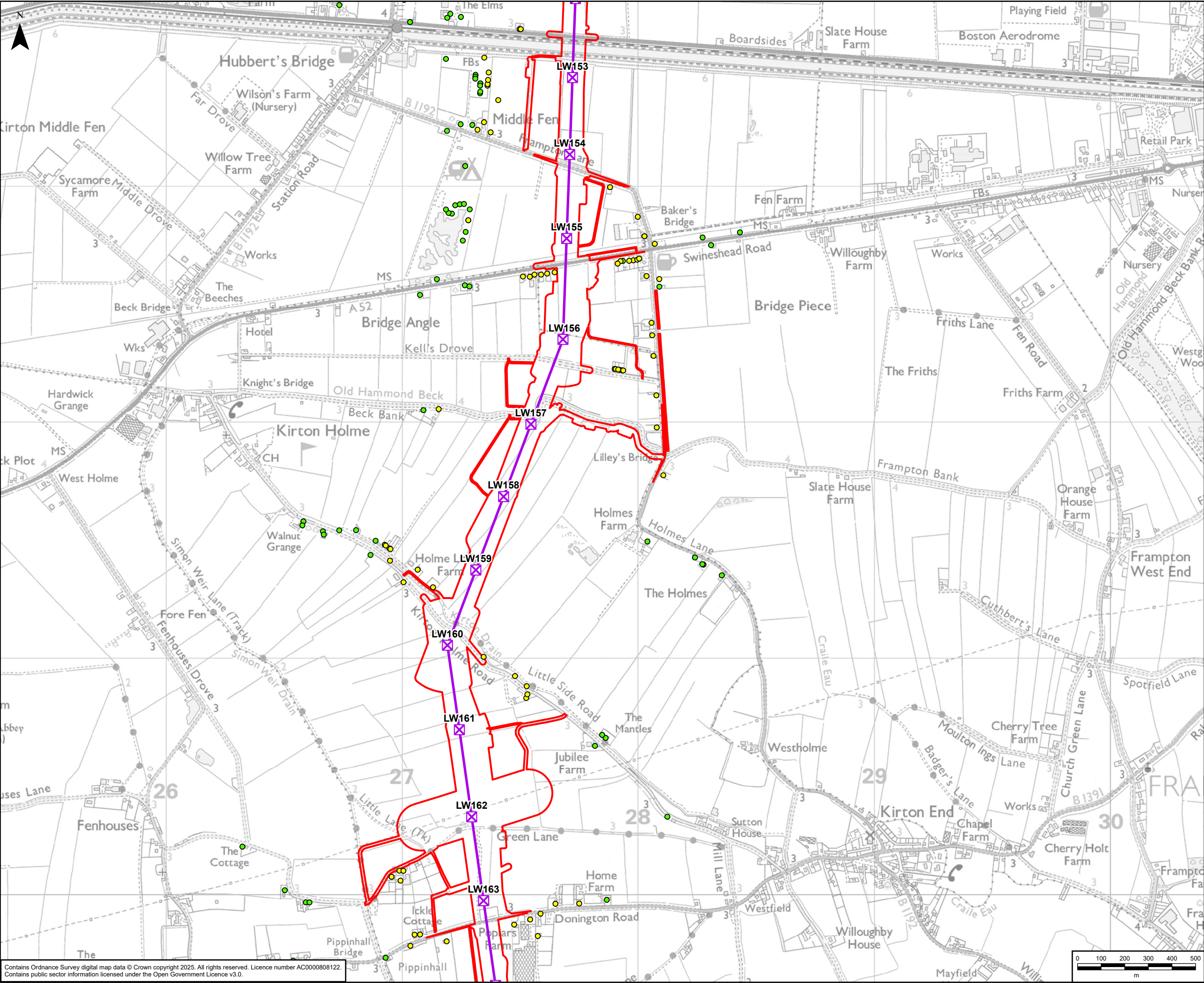
Construction Noise Levels

- Negligible
- Small

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Rev	Date	Description	GIS	Chk	App

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GRIMSBY TO WALPOLE LEGEND

Legend

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

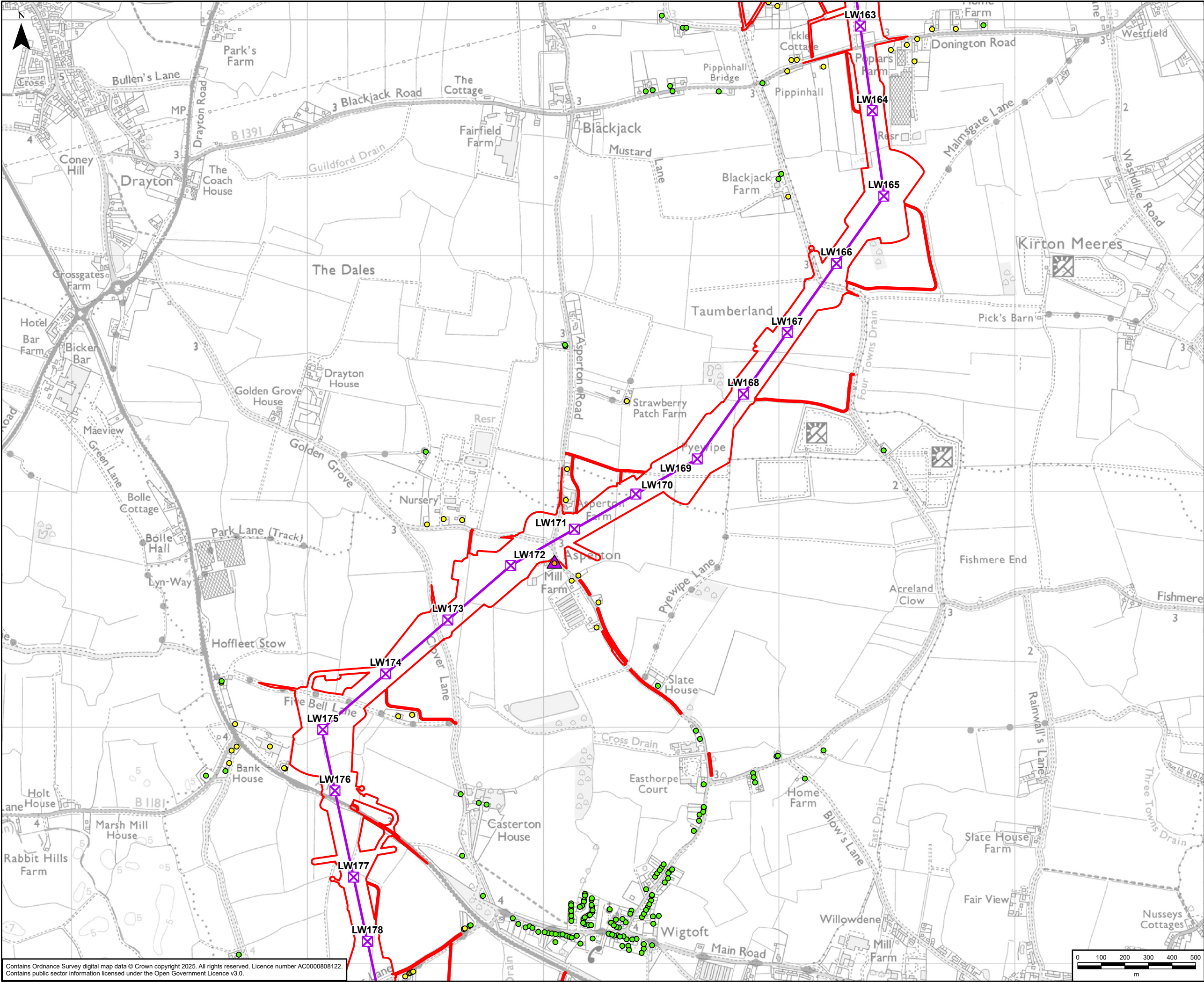
Construction Noise Levels

- Negligible
- Small

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Rev	Date	Description	GIS	Chk	App

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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
- Medium

Construction Noise Assessment

- Significant Adverse Effect - Residential

A	09/05/2025	First Issue	LC	DG	DR
Rev	Date	Description	GIS	Chk	App

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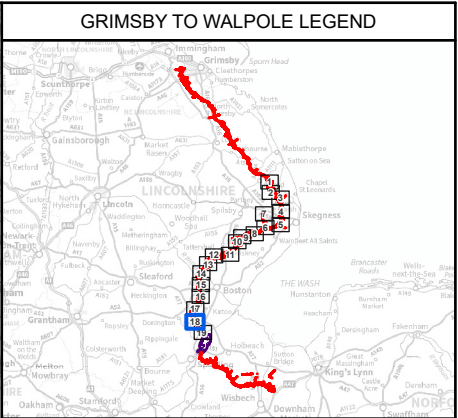
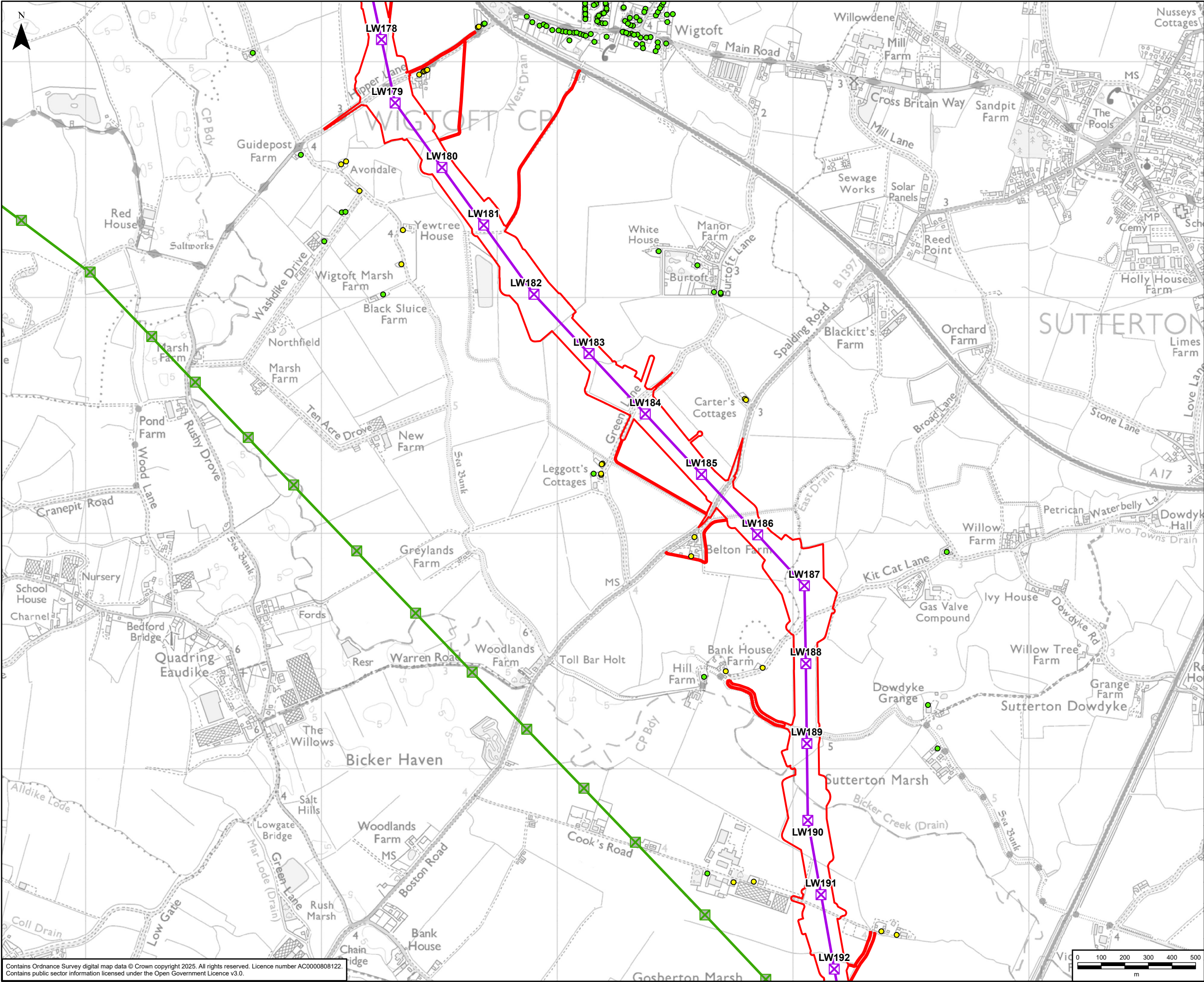
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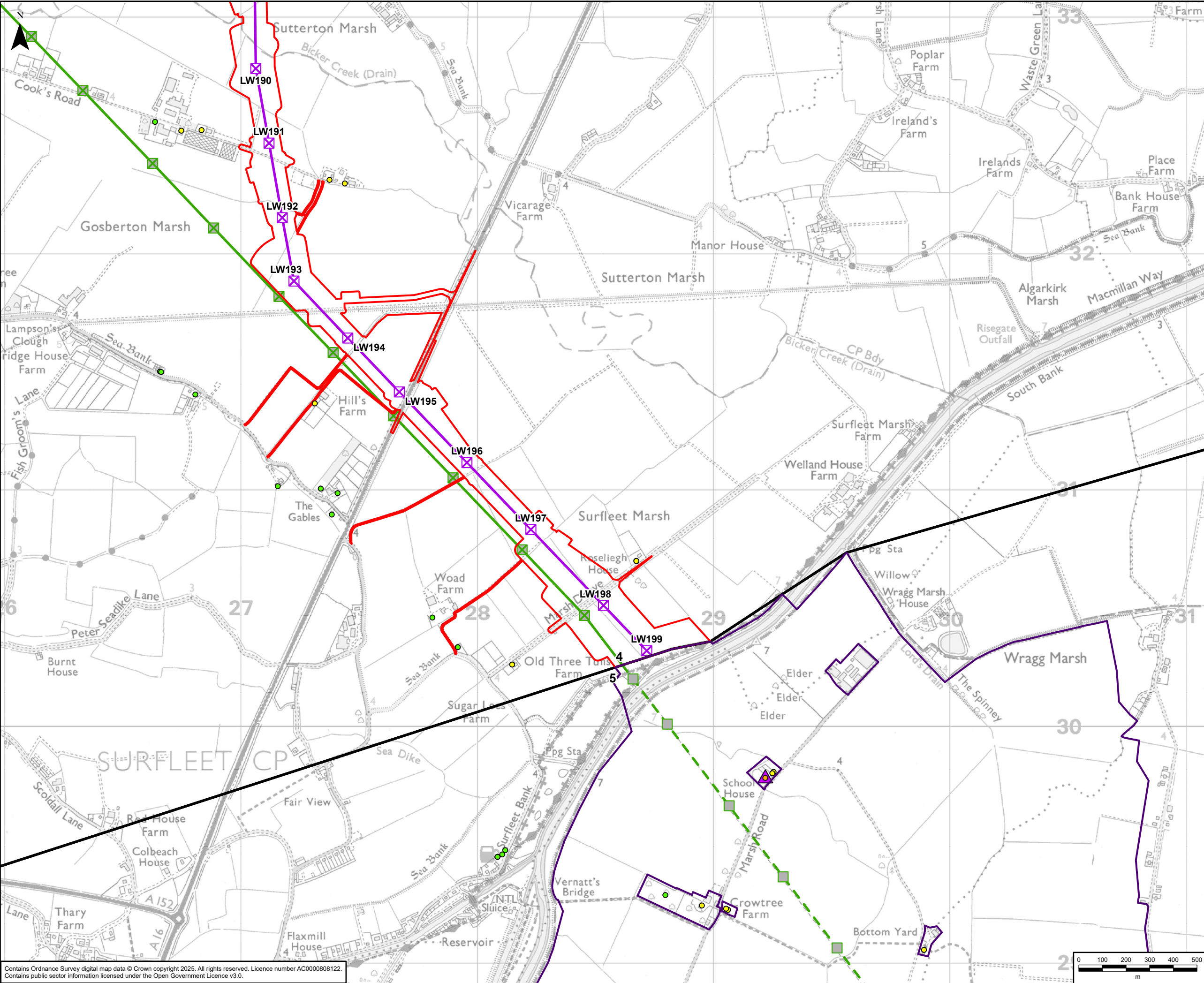
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- Legend**
- Draft Order Limits
 - Indicative New Lattice Pylon
 - Existing Lattice Pylon - Not Affected
 - Indicative New Overhead Line
 - Existing Overhead Line - Not Affected
- Construction Noise Levels**
- Negligible
 - Small

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Rev	Date	Description	GIS	Chk	App
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Refined Weston Marsh Substation Siting Zone
- Route Section Break
- ✕ Indicative New Lattice Pylon
- Existing Lattice Pylon - Within Weston Marsh Siting Zone that May Be Modified
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- - - Existing Overhead Line - Within Weston Marsh Siting Zone that May Be Modified

Construction Noise Levels

- Negligible
- Small
- Medium

Construction Noise Assessment

- ▲ Significant Adverse Effect - Residential

A	09/05/2025	First Issue	LC	DG	DR
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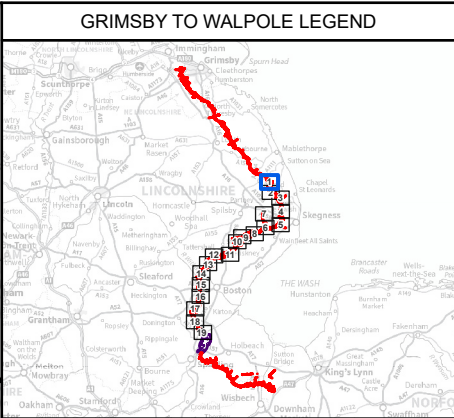
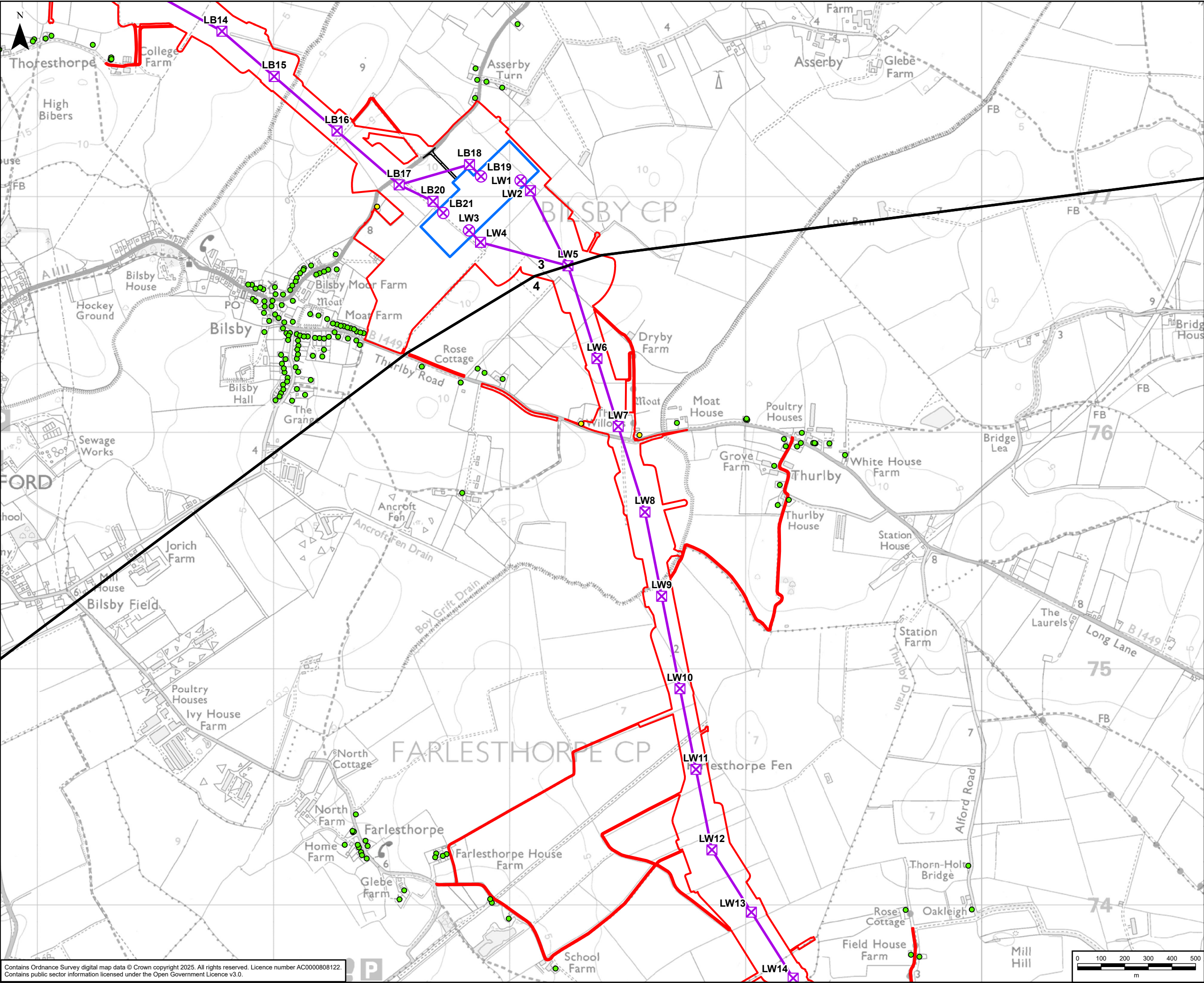
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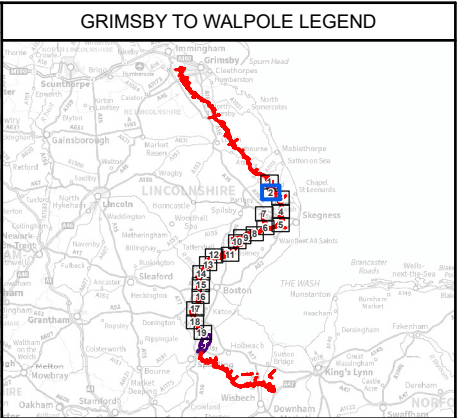
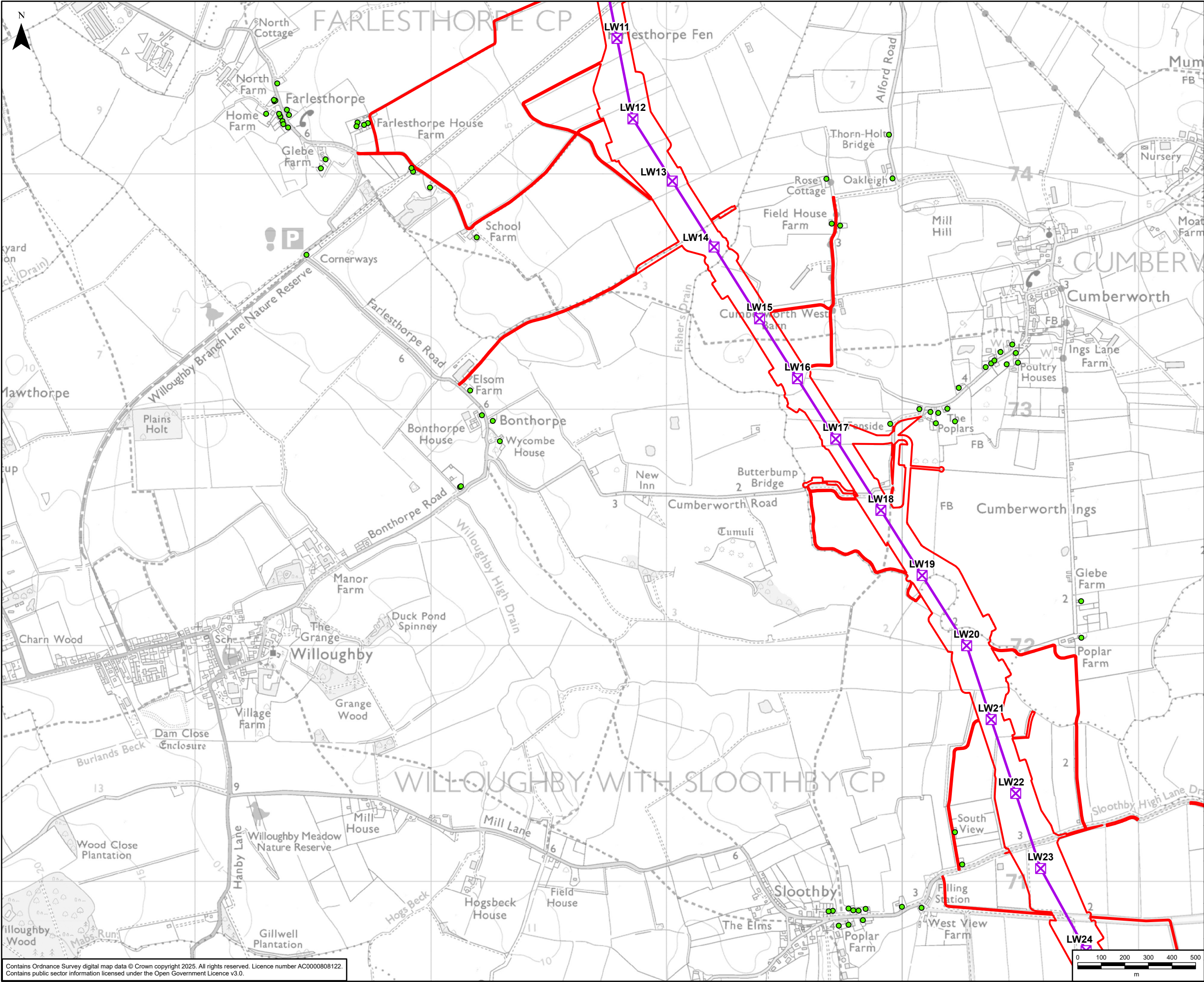
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- Legend**
- Draft Order Limits
 - Route Section Break
 - Indicative New Lattice Pylon
 - Indicative New Gantry
 - Indicative New Overhead Line
 - Indicative New Substation Boundary
 - Indicative Permanent Substation Access Route
- Construction Vibration Levels**
- Negligible
 - Small

A	09/05/2025	First Issue	LC	DG	DR
Rev	Date	Description	GIS	Chk	App
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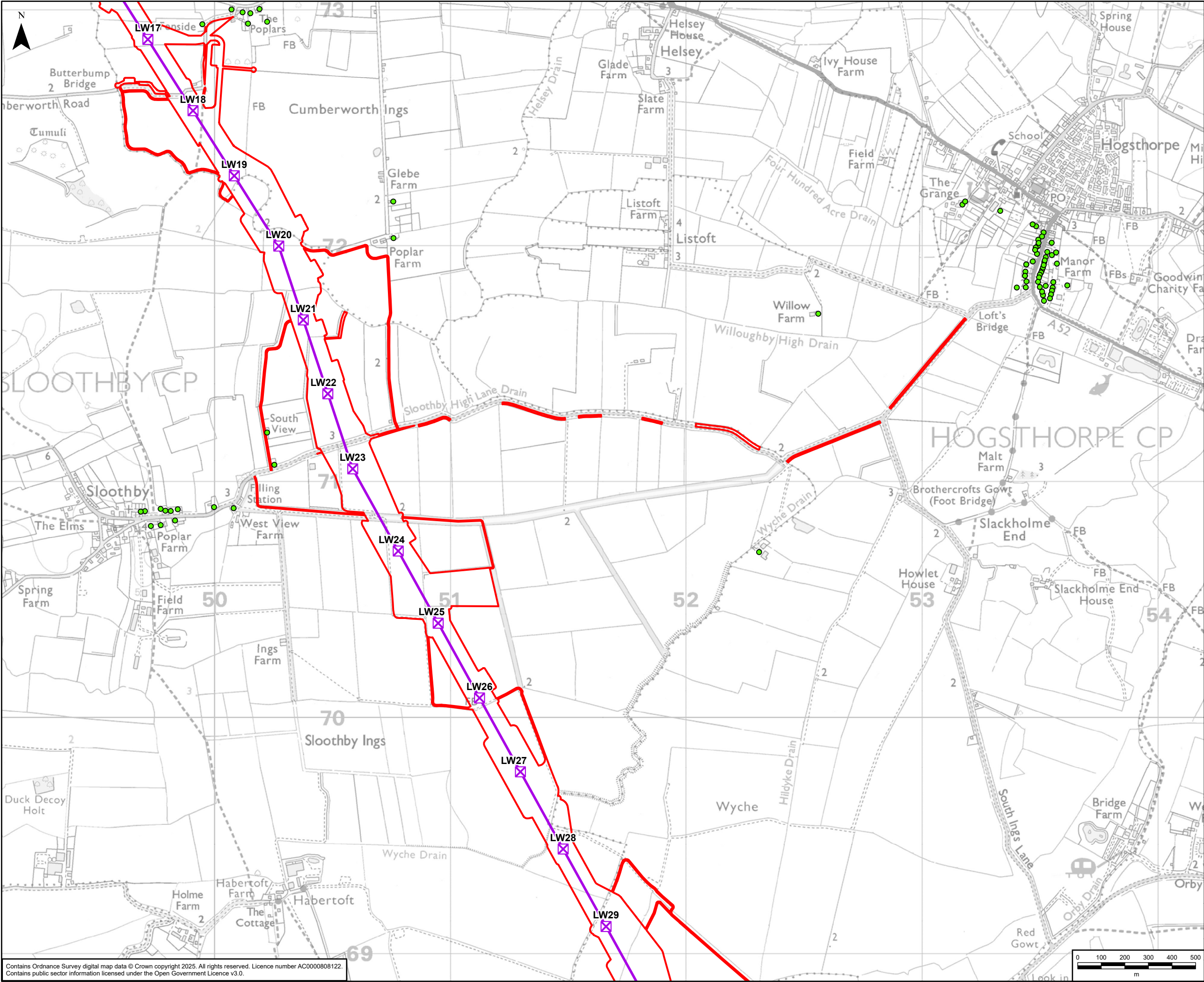
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- Legend**
- Draft Order Limits
 - ✕ Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Vibration Levels**
- Negligible

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GRIMSBY TO WALPOLE LEGEND

Legend

Draft Order Limits

Indicative New Lattice Pylon

Indicative New Overhead Line

Construction Vibration Levels

Negligible

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Description

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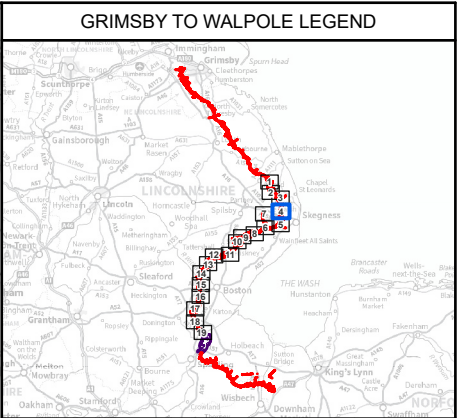
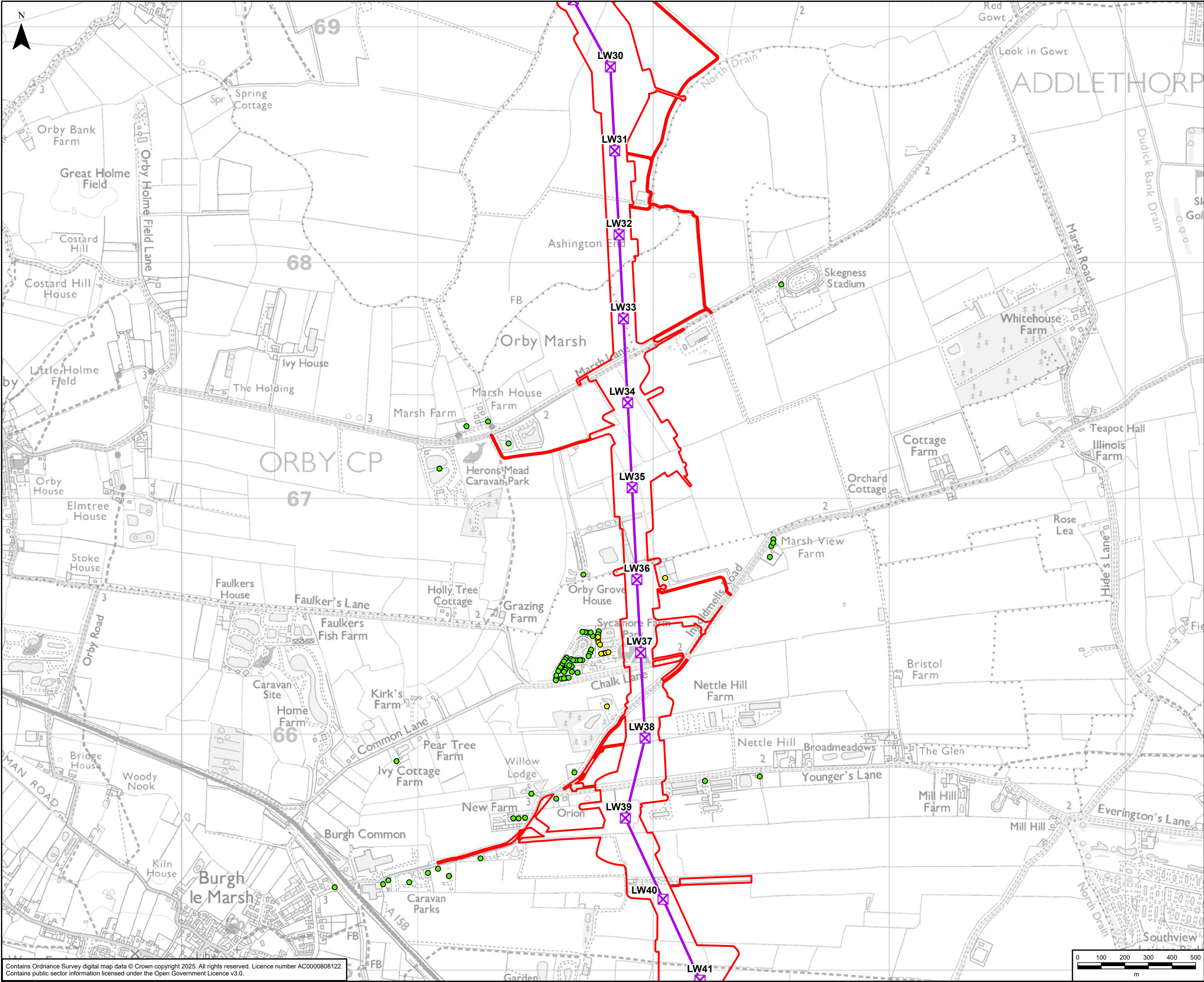
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GRIMSBY TO WALPOLE LEGEND

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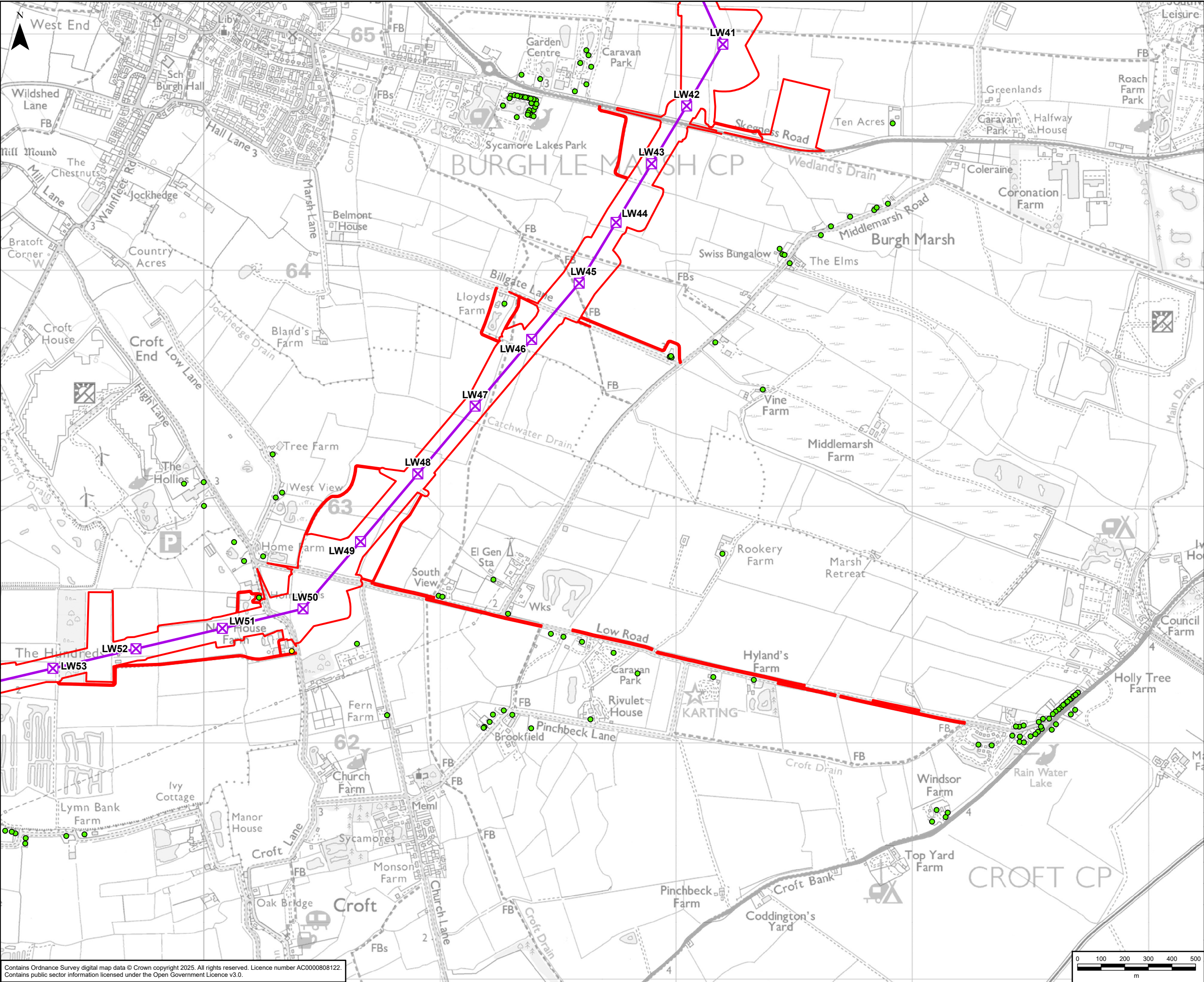
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- ⊗ Indicative New Lattice Pylon
- Indicative New Overhead Line

Construction Vibration Levels

- Negligible
- Small

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GRIMSBY TO WALPOLE LEGEND

Legend

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

Construction Vibration Levels

- Negligible
- Small

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nationalgrid

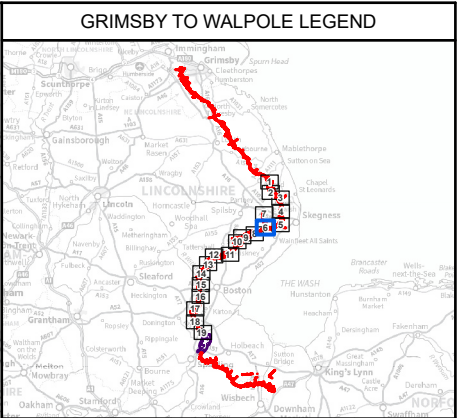
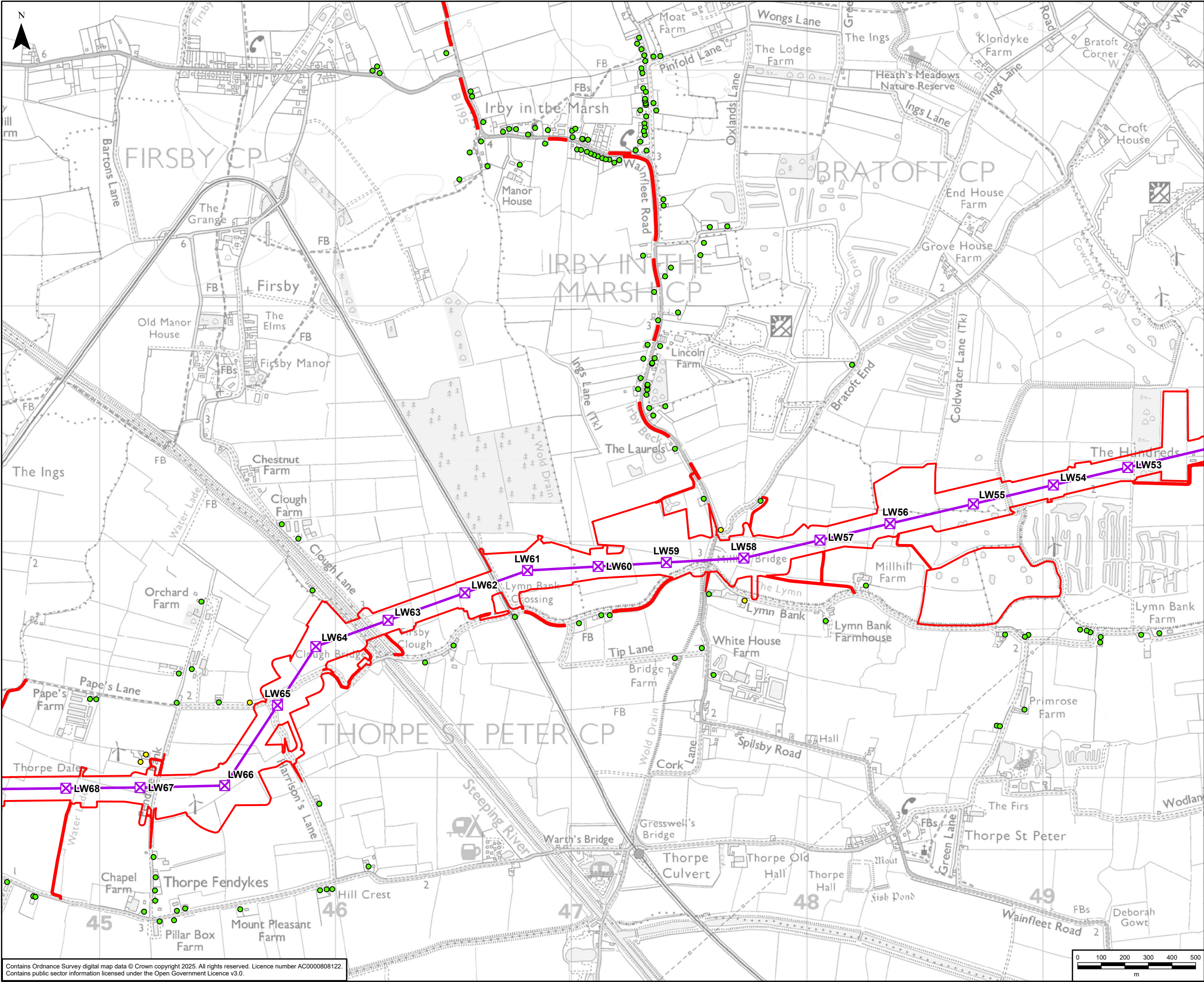
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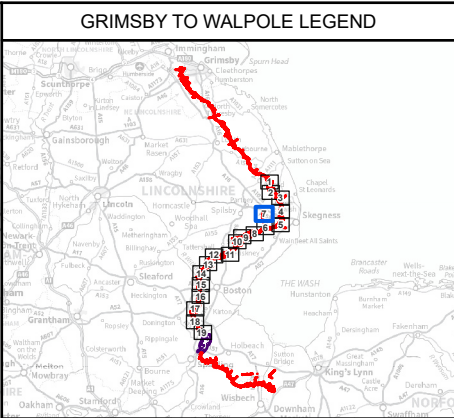
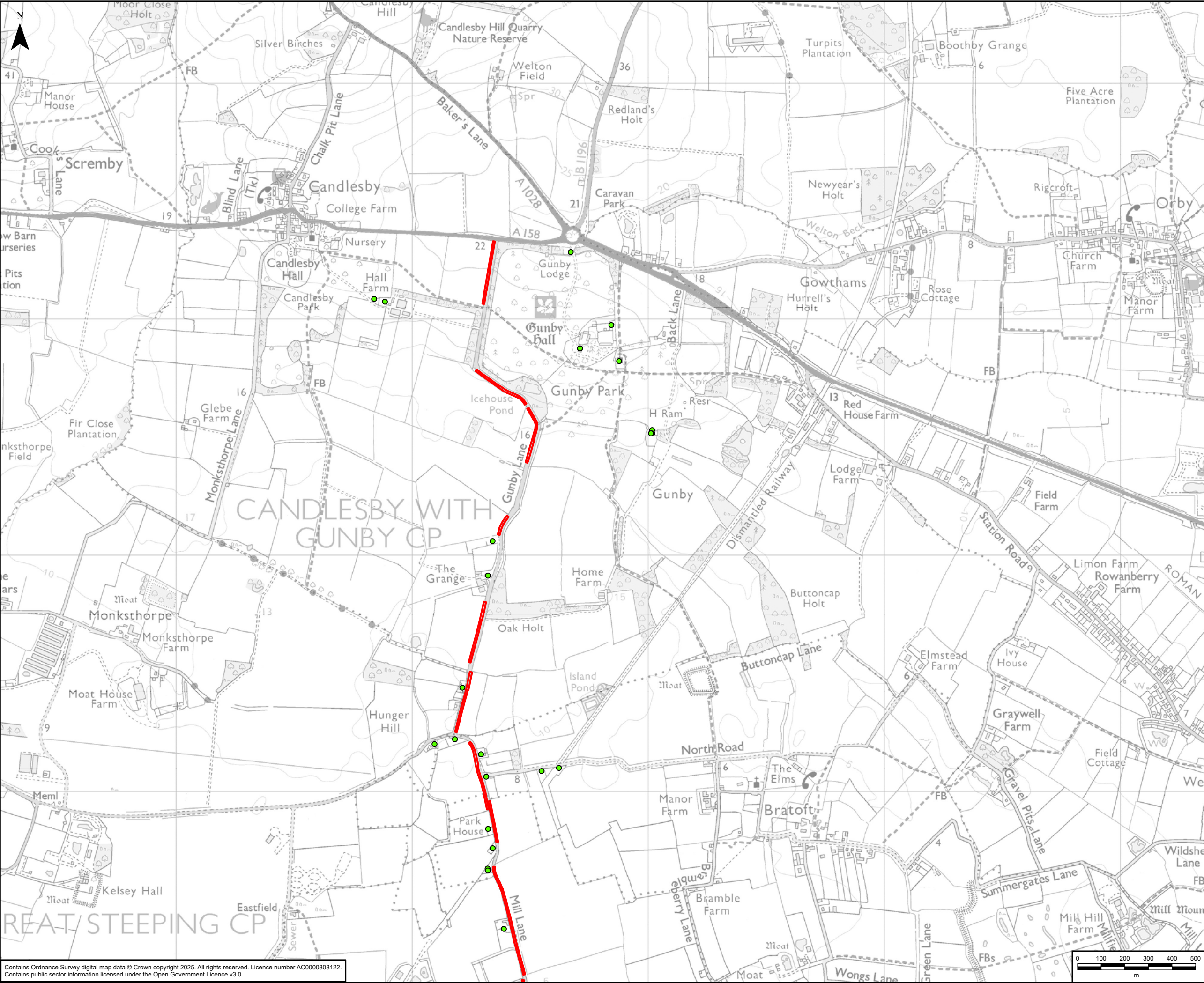


- GRIMSBY TO WALPOLE LEGEND**
- Draft Order Limits
 - ✕ Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Vibration Levels**
- Negligible
 - Small

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Legend

Draft Order Limits

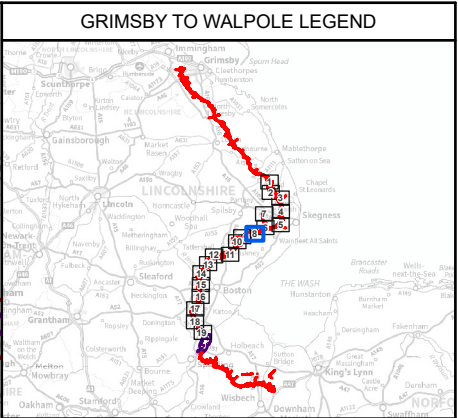
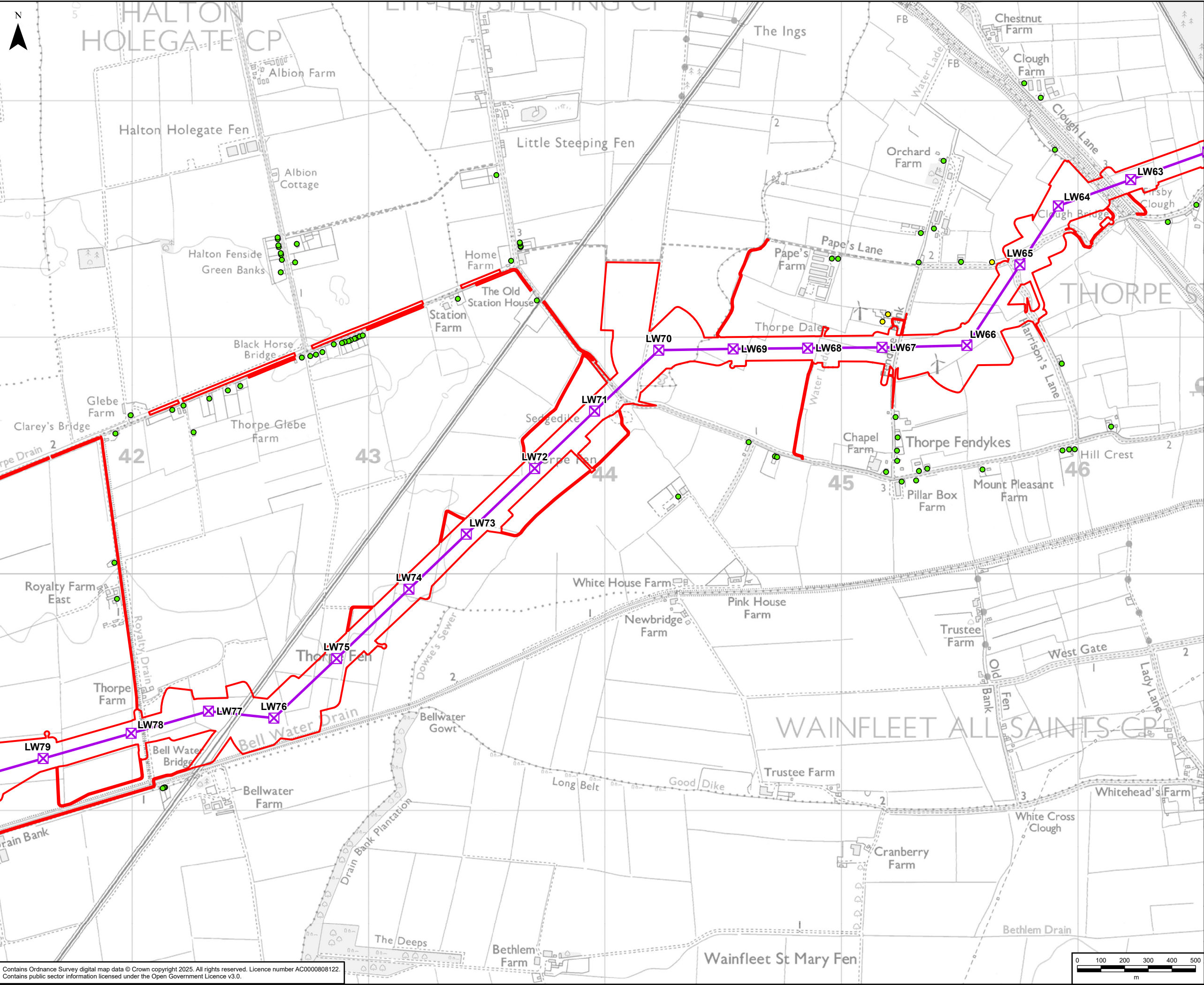
Construction Vibration Levels

● Negligible

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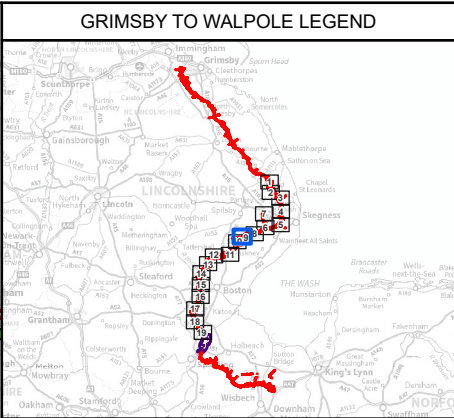
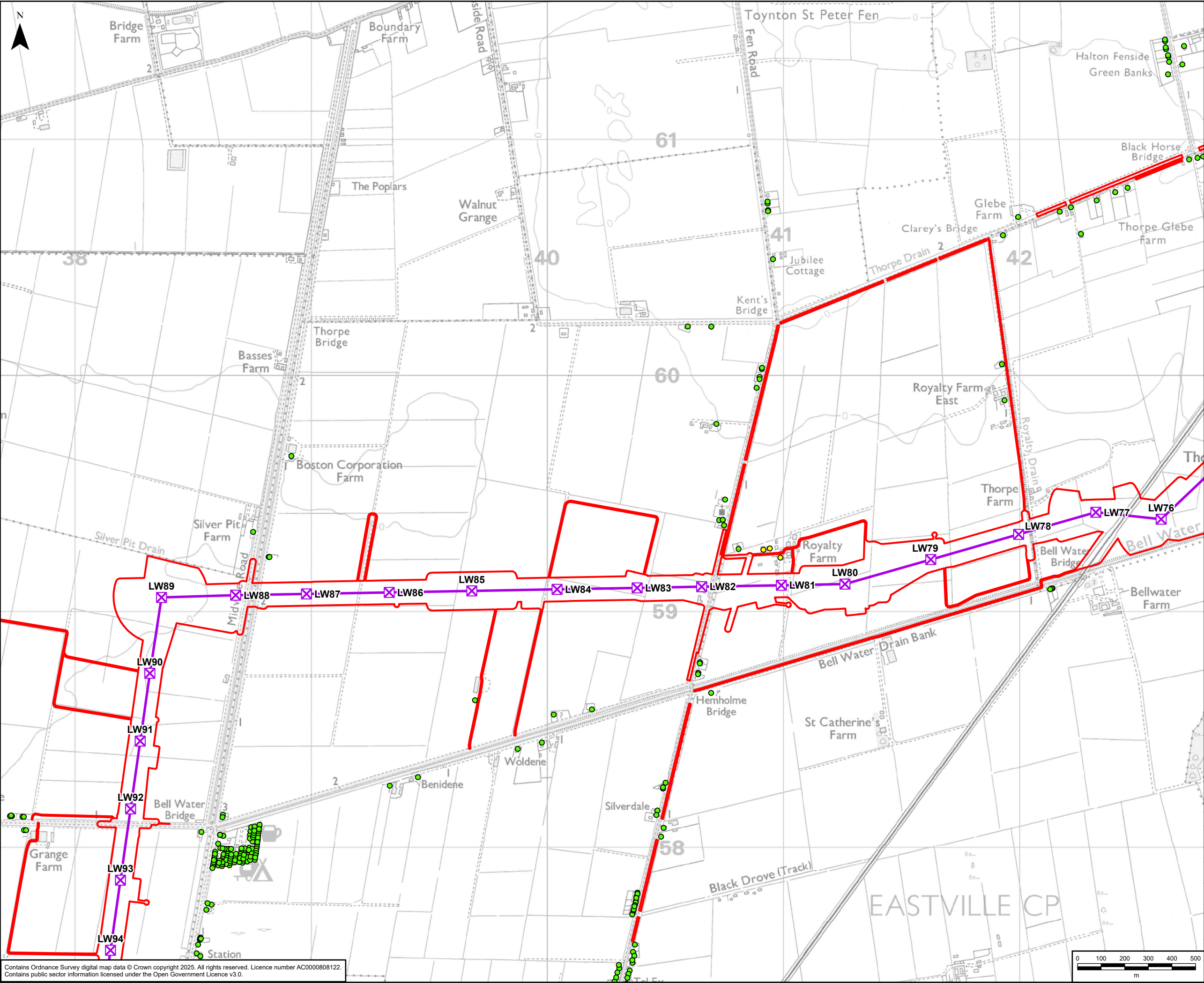
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- Legend
- Draft Order Limits
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Vibration Levels
- Negligible
 - Small

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

Legend

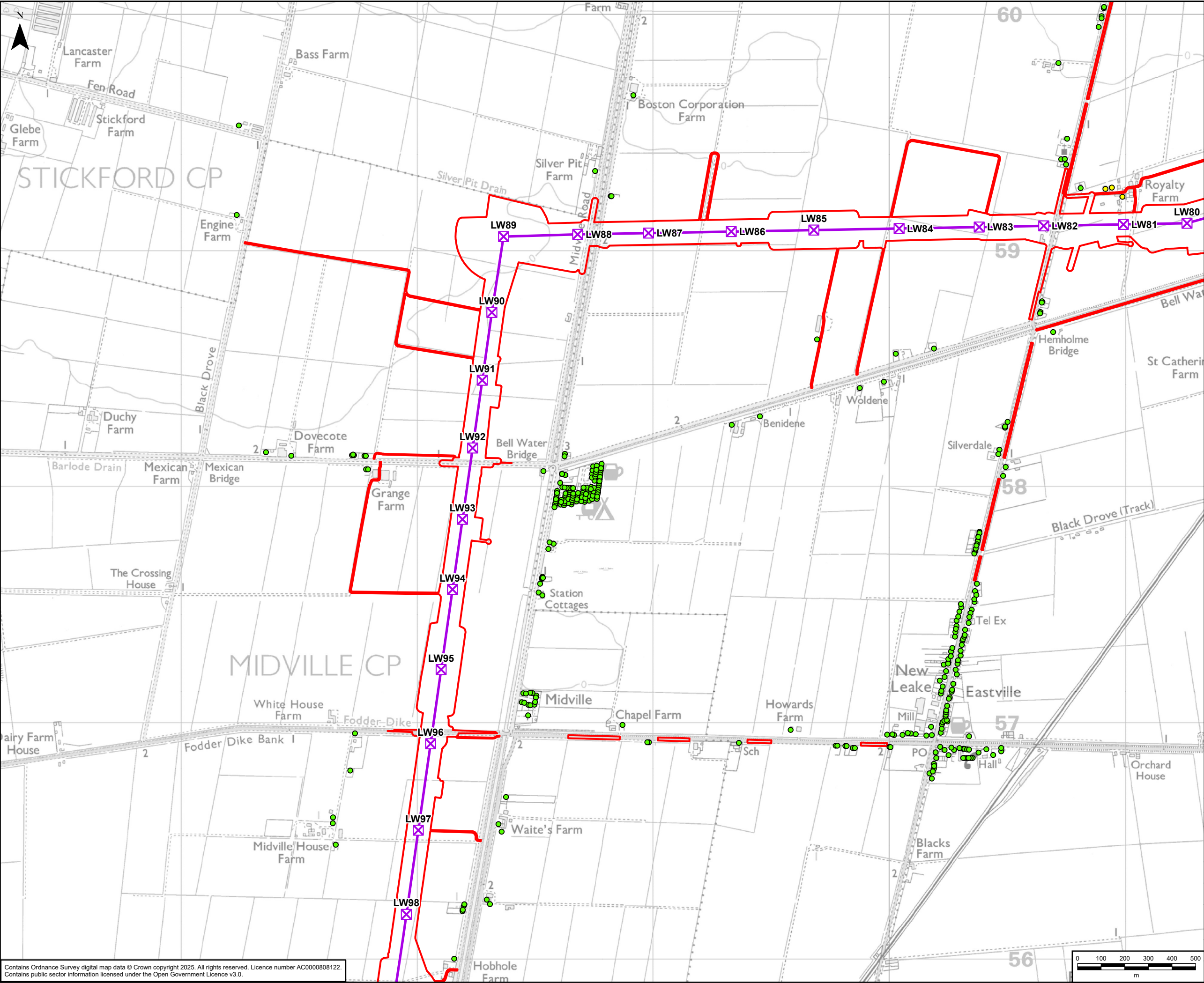
- Draft Order Limits
- Indicative New Lattice Pylon
- Indicative New Overhead Line

Construction Vibration Levels

- Negligible
- Small

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Rev	Date	Description	GIS	Chk	App
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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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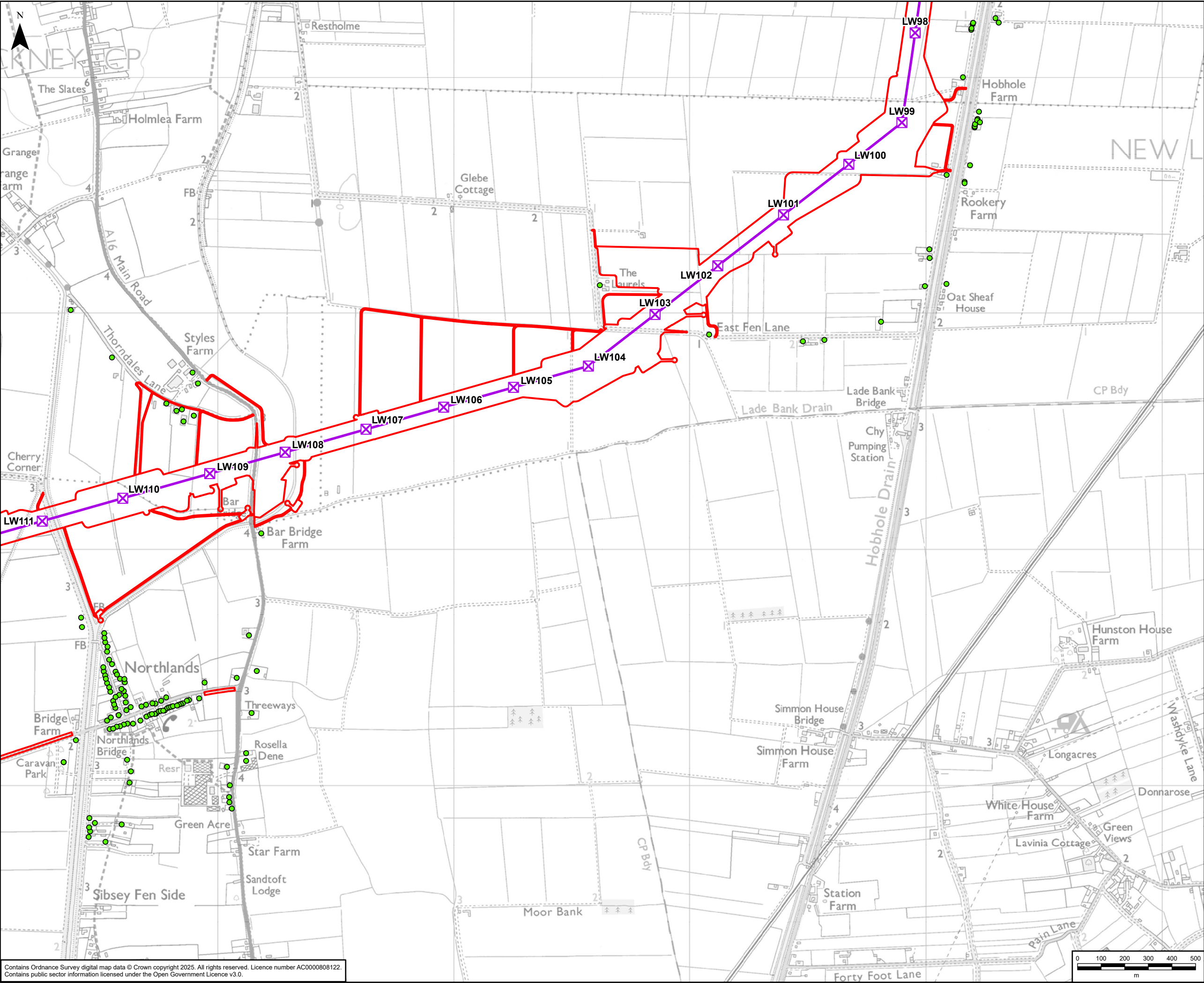
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GRIMSBY TO WALPOLE LEGEND

Legend

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

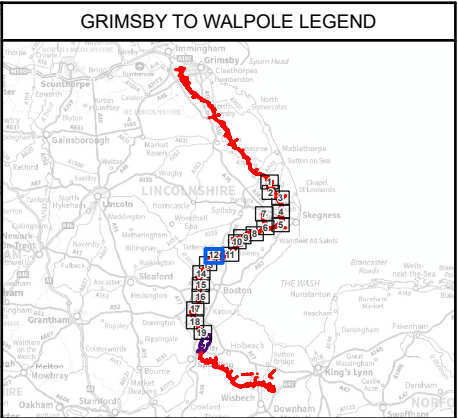
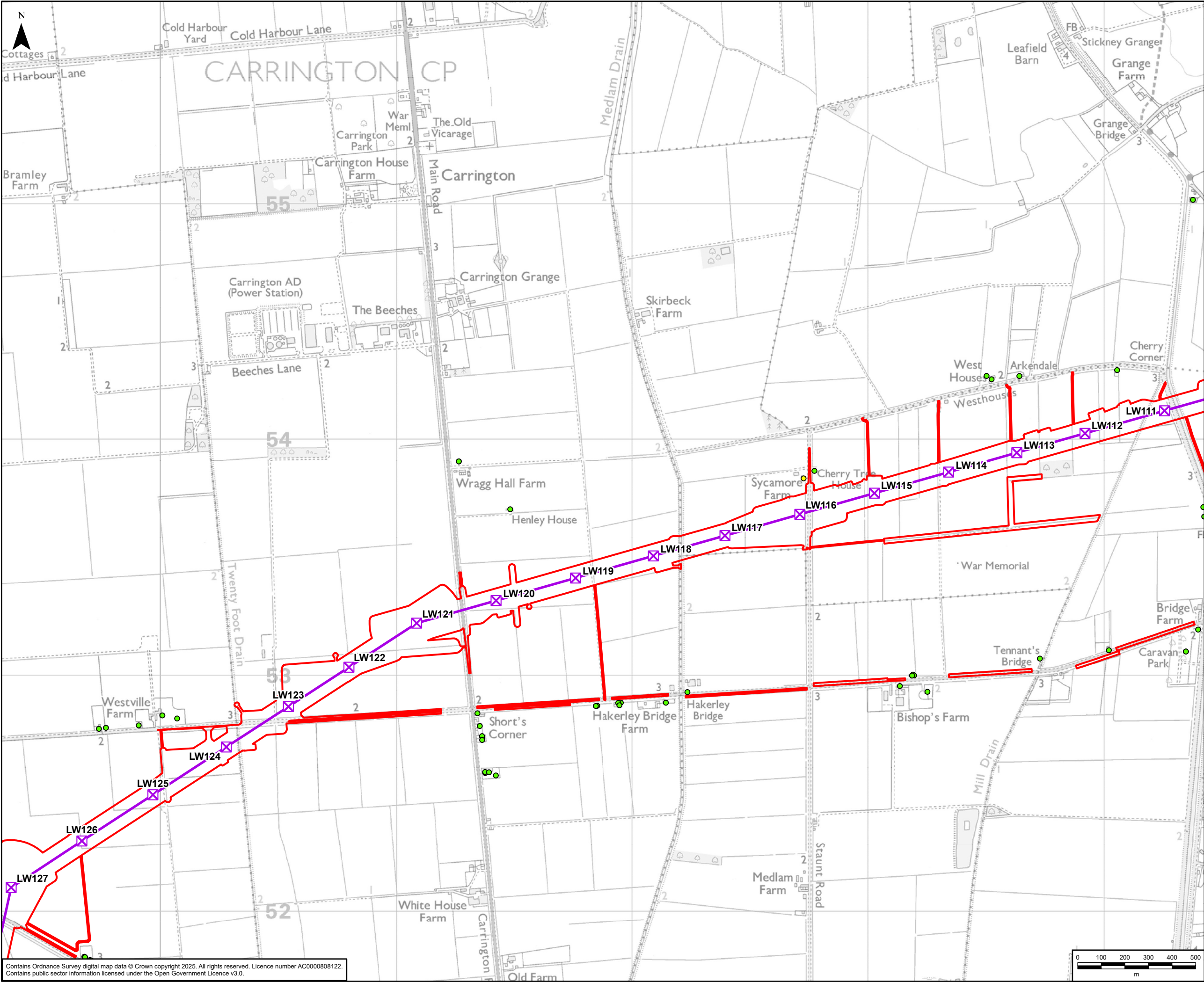
Construction Vibration Levels

- Negligible

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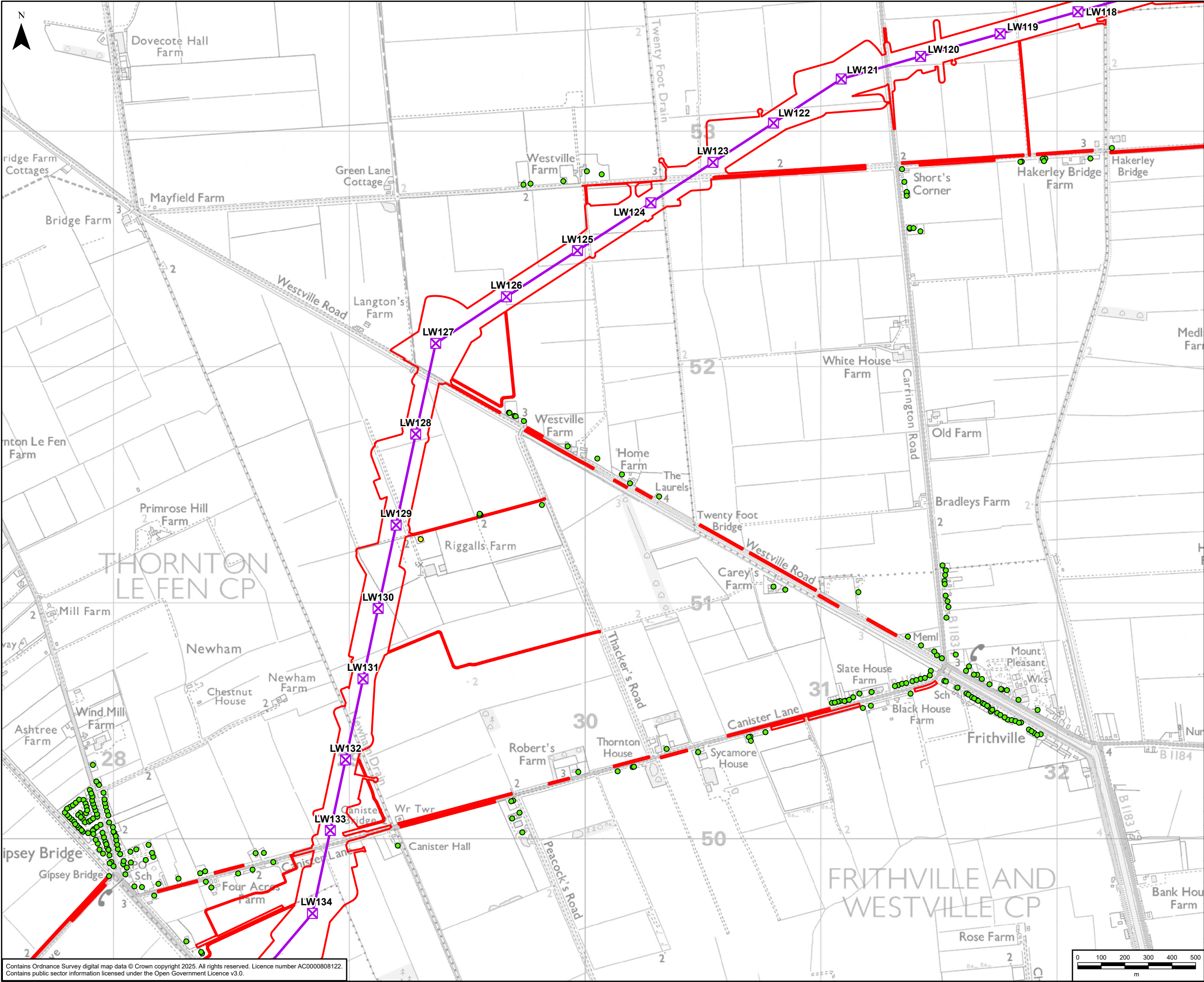
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- Legend**
- Draft Order Limits
 - ⊠ Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Vibration Levels**
- Negligible
 - Small

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GRIMSBY TO WALPOLE LEGEND

Legend

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

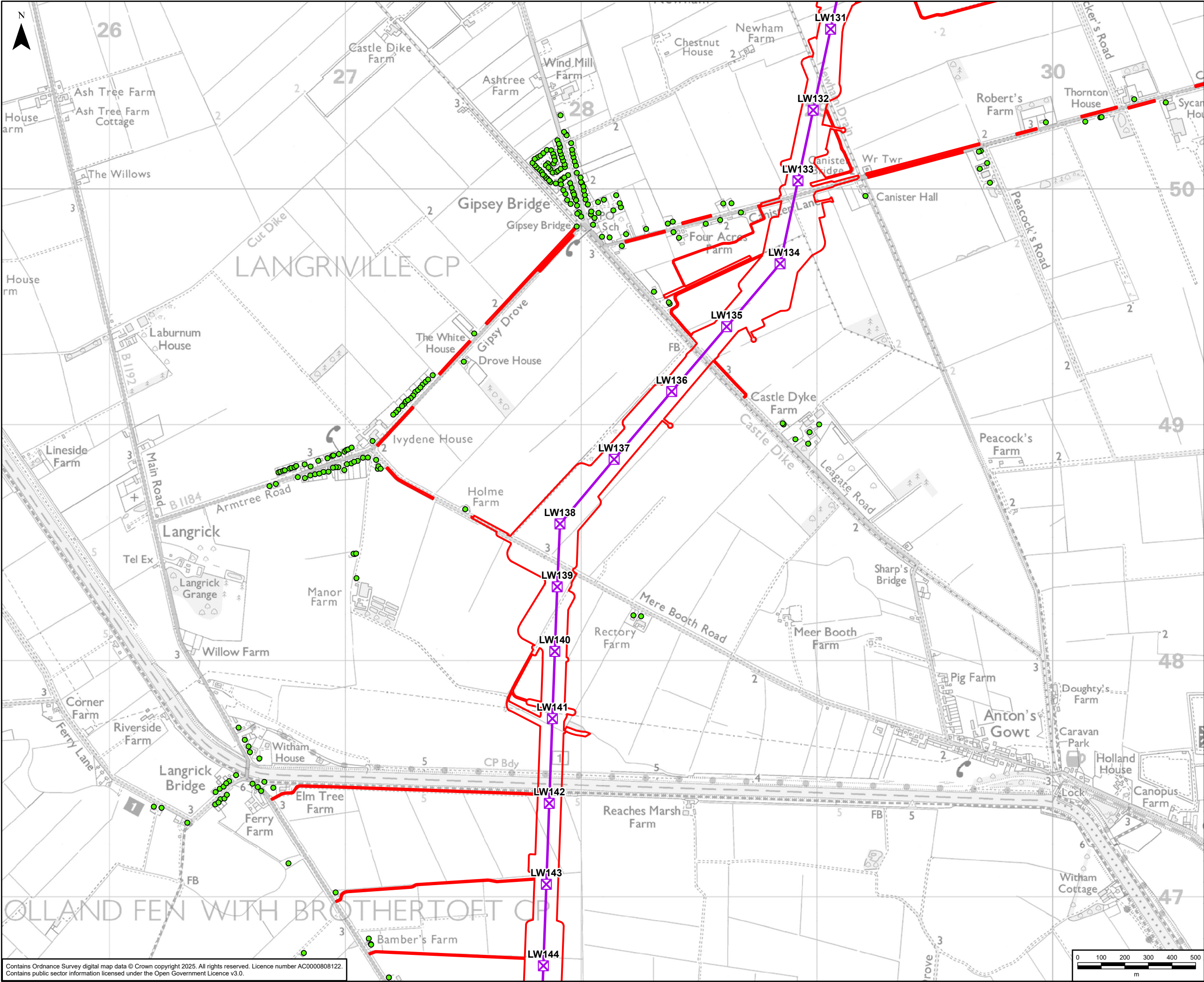
Construction Vibration Levels

- Negligible
- Small

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GRIMSBY TO WALPOLE LEGEND

Legend

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

Construction Vibration Levels

- Negligible

A	09/05/2025	First Issue	LC	DG	DR
Rev	Date	Description	GIS	Chk	App

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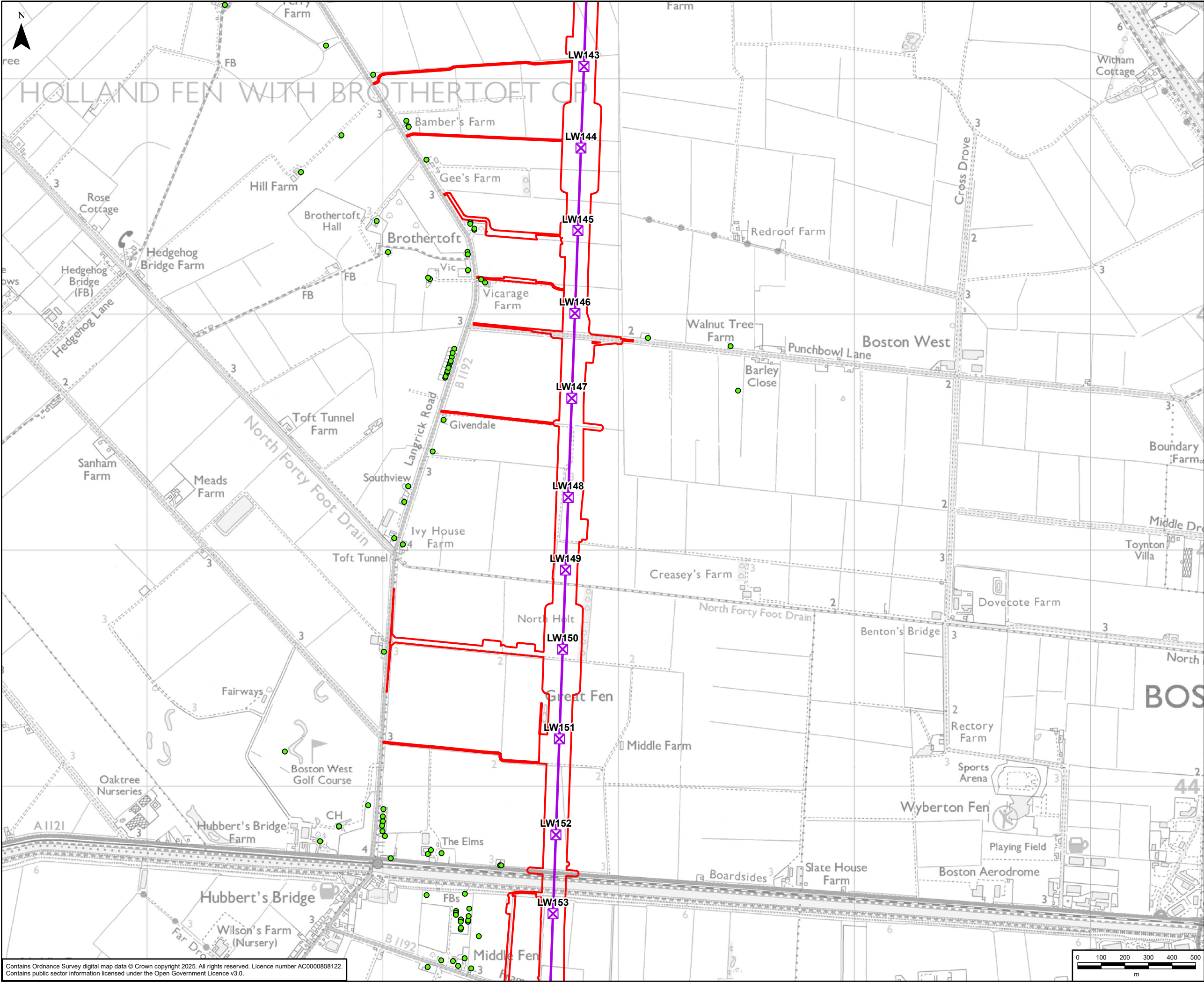
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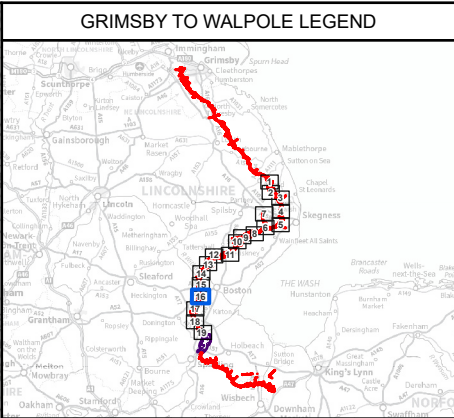
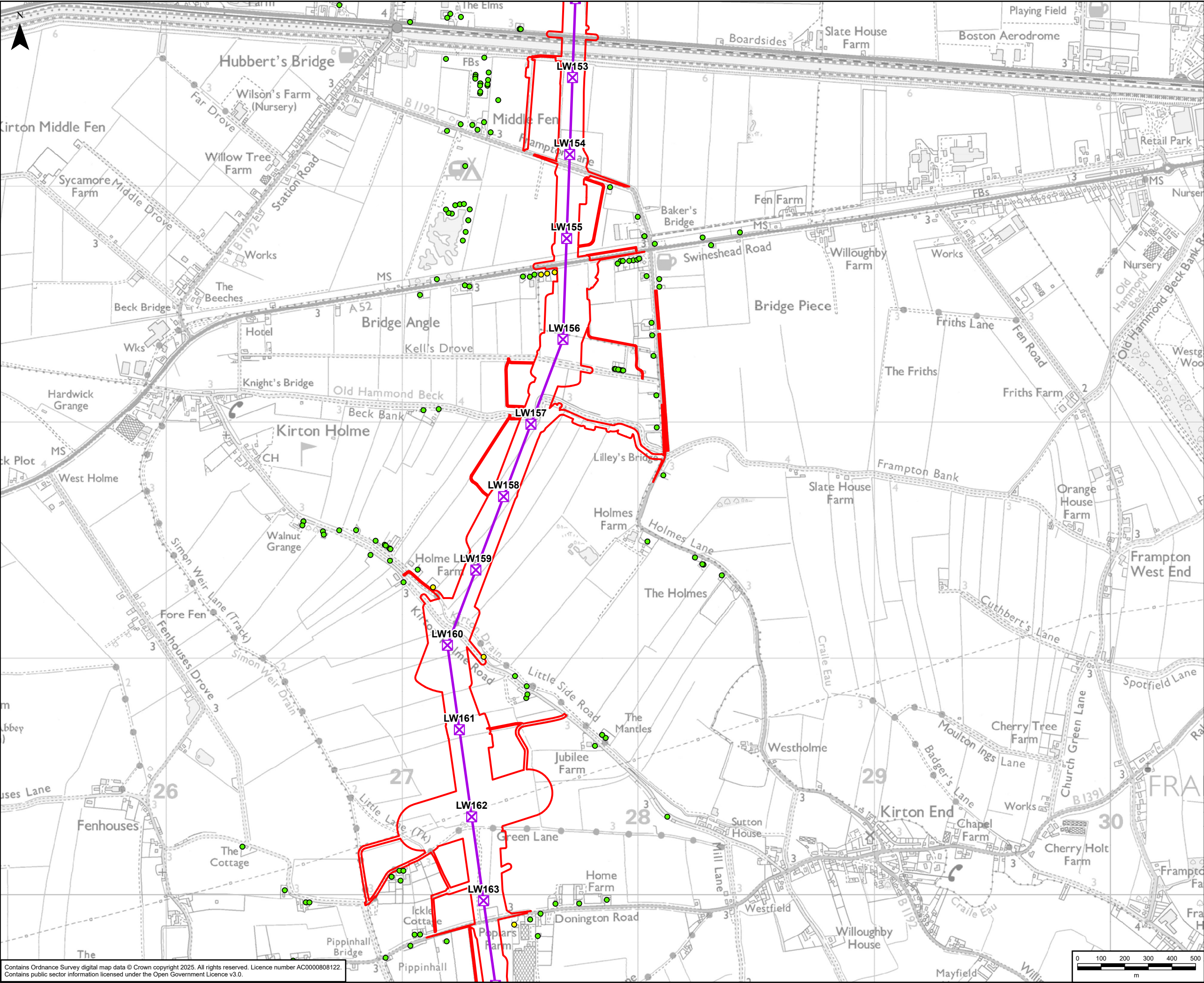
- Draft Order Limits
- ⊗ Indicative New Lattice Pylon
- Indicative New Overhead Line

Construction Vibration Levels

- Negligible

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Rev	Date	Description	GIS	Chk	App
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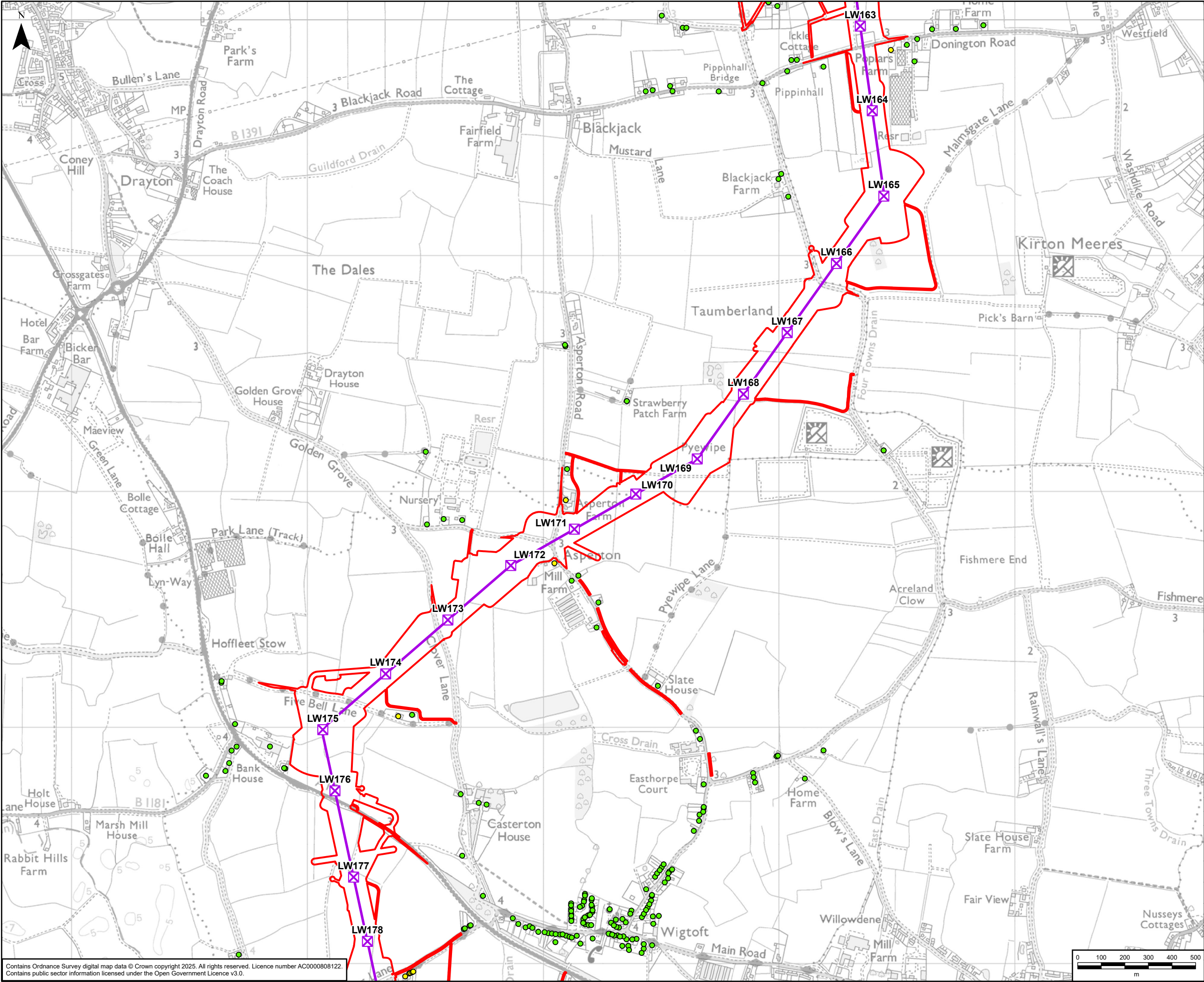
- Draft Order Limits
- Indicative New Lattice Pylon
- Indicative New Overhead Line

Construction Vibration Levels

- Negligible
- Small

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Rev	Date	Description	GIS	Chk	App
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GRIMSBY TO WALPOLE LEGEND

Legend

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

Construction Vibration Levels

- Negligible
- Small

A	09/05/2025	First Issue	LC	DG	DR
Rev	Date	Description	GIS	Chk	App

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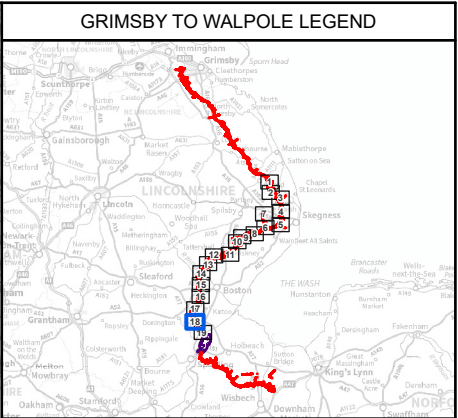
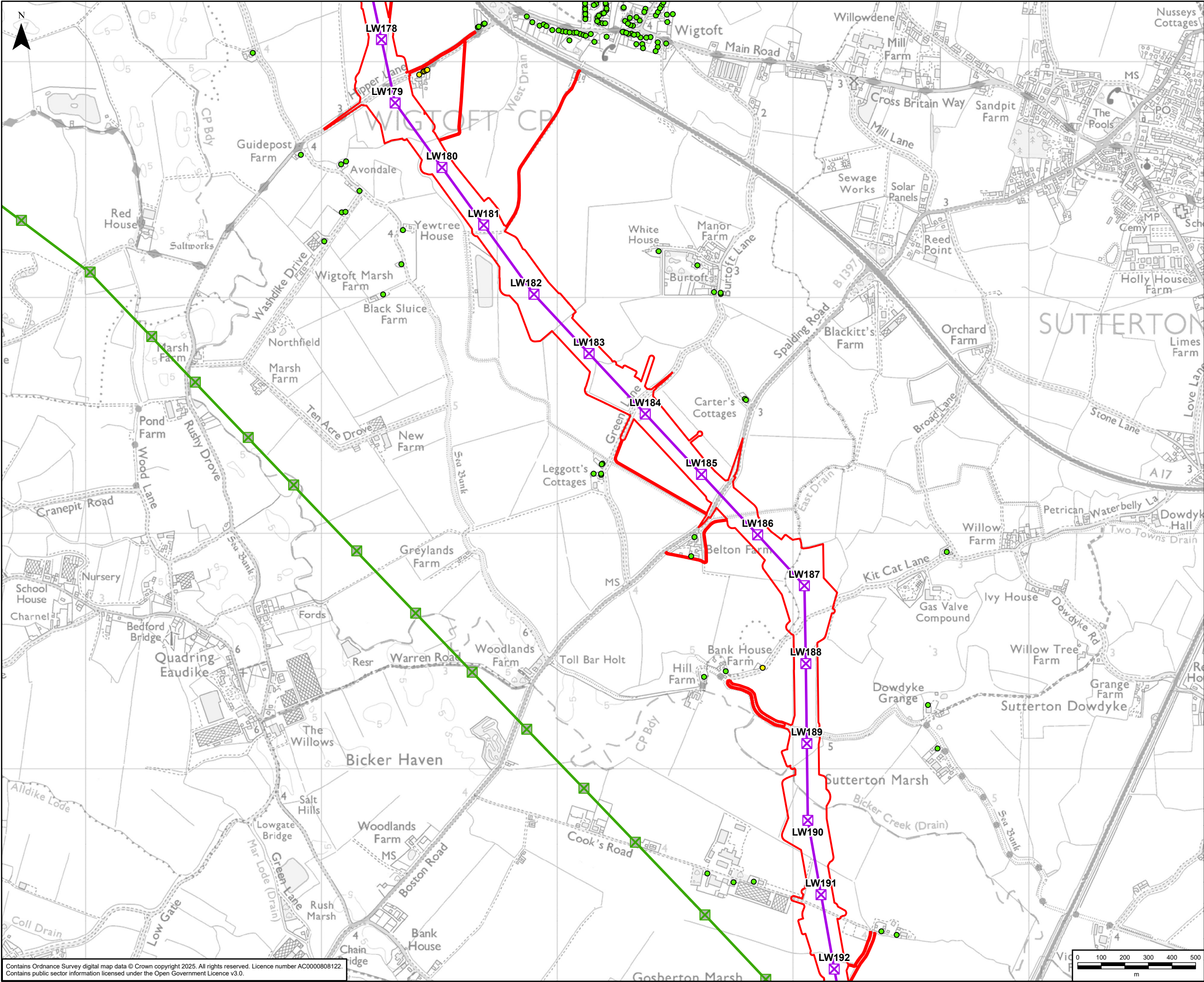
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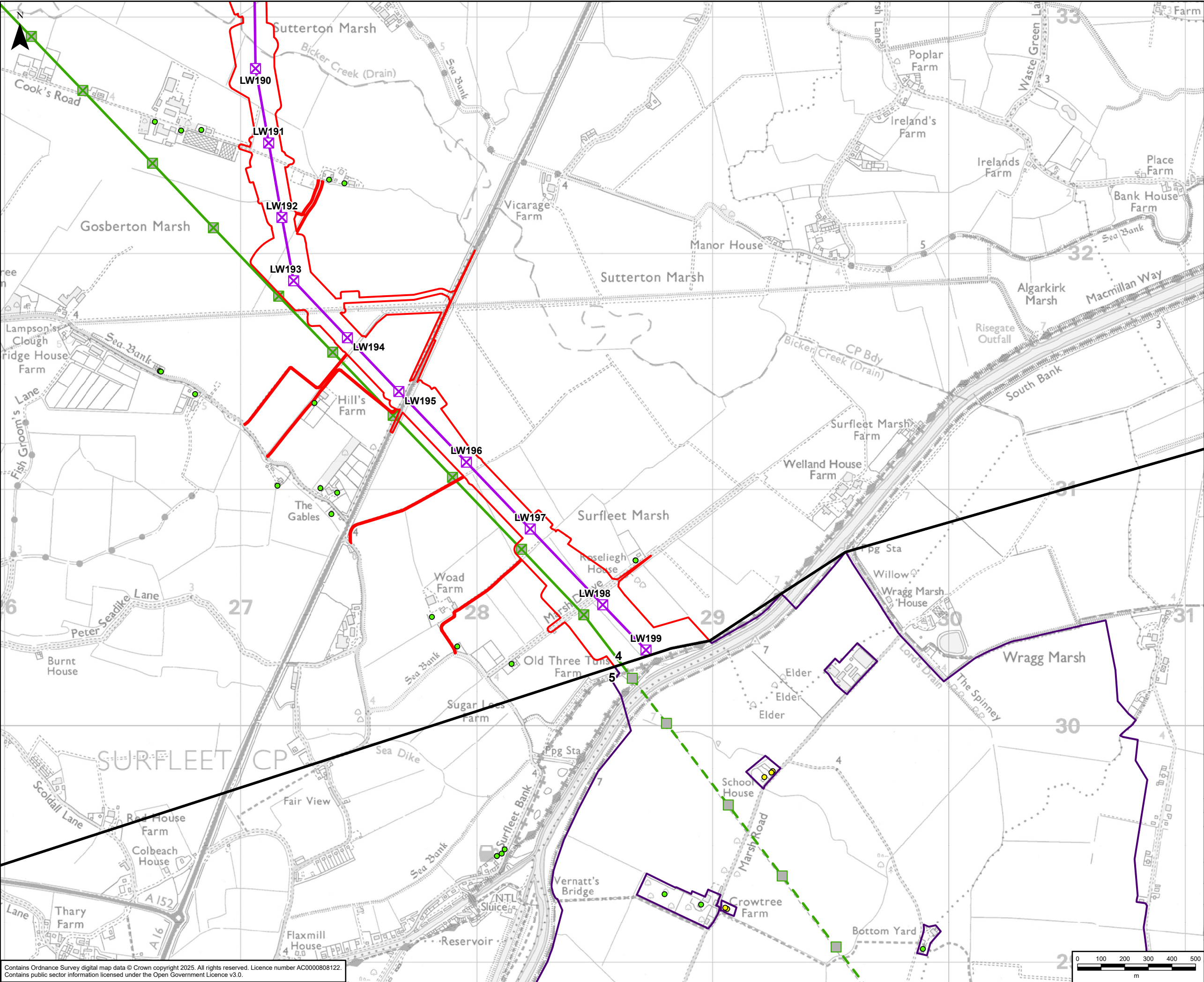
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- Legend**
- Draft Order Limits
 - ✕ Indicative New Lattice Pylon
 - ✕ Existing Lattice Pylon - Not Affected
 - Indicative New Overhead Line
 - Existing Overhead Line - Not Affected
- Construction Vibration Levels**
- Negligible
 - Small

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

Legend

- Draft Order Limits
- Refined Weston Marsh Substation Siting Zone
- Route Section Break
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Within Weston Marsh Siting Zone that May Be Modified
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Existing Overhead Line - Within Weston Marsh Siting Zone that May Be Modified

Construction Vibration Levels

- Negligible
- Small

A	09/05/2025	First Issue	LC	DG	DR
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Purpose:

PEI REPORT - SECTION 4

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GRIMSBY TO WALPOLE

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FIGURE	1:15,000	A3	19 OF 19	A

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