The Great Grid Upgrade

North Humber to High Marnham

NHHM-AEC-CNS-REP-0043

North Humber to High Marnham

Volume 6: Environmental Statement

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1. Introduction

1.1.1 This appendix to **Application Document 6.8 Chapter 8 Ecology** sets out the scope, methods and findings of the Phase 1 habitat survey carried out to inform the Environmental Statement (ES) and any mitigation requirements for the Project.

1.1.2 This appendix is accompanied by two figures in Annex A:

- **Figure A8.3.1 Phase 1 Habitat Survey Map**; and
- **Figure A8.3.2 Records of Protected/Notable Plants and Invasive Non-native Plant Species**.

1.1.3 The following technical appendices and figures should be read in conjunction with this appendix to provide a more detailed assessment of the habitats present within the study areas:

- **Application Document 6.8.A2 Appendix 8.2 Designated Sites Information**;
- **Application Document 6.8.A4 Appendix 8.4 Botanical Report**;
- **Application Document 6.8.A6 Appendix 8.6 Otter and Water Vole Report**;
- **Application Document 6.8.A10 Appendix 8.10 Aquatic Ecology Report**;
- **Application Document 6.8.F1 Figure 8.1 International Sites Designated for Nature Conservation within 10 km and National and Local Statutory Designated Sites within 5 km**;
- **Application Document 6.8.F2 Figure 8.2 Nature Conservation Non-Statutory Designated Sites and Priority Habitat within 2 km**;
- **Application Document 5.2 Habitats Regulations Assessment Report**;
- **Application Document 7.1 Biodiversity Net Gain Report**; and
- **Application Document 7.14 Arboriculture Impact Assessment**.

1.1.4 The Project has been sub-divided into six geographical Route Sections; these are shown on **Application Document 6.1.F1 Figure 1.1 Project Location and Route Sections** and comprise:

- Route Section A – between the proposed Birkhill Wood Substation and the River Ouse;
- Route Section B – between the River Ouse and Crowle;
- Route Section C – between Crowle and North Moor (M180);
- Route Section D – between North Moor (M180) and the River Idle;
- Route Section E – between the River Idle and Darlton; and
- Route Section F – between Darlton and the proposed High Marnham Substation.

1.1.5 The results reported in this appendix reference the Route Section that the habitat is located within, where appropriate.

1.2 Aims and Objectives

Aims

1.2.1 The aim of the Phase 1 habitat survey was to establish baseline ecological habitat data to inform the ES and support the application of the mitigation hierarchy (avoid, reduce, minimise, compensate) for the Project.

Objectives

1.2.2 The objectives of the Phase 1 habitat survey and this appendix were to:

- Review existing ecological data to identify any sites designated for nature conservation (international, national or local) in the study area;
- Identify the presence of Habitats of Principal Importance (HPI), designated ancient woodland, and Project identified Woodland with Characteristics of Ancient Woodland in the study area;
- Identify and categorise habitats present in the survey area;
- Carry out a high-level appraisal of the potential for habitats recorded to support protected or notable flora in the survey area;
- Compile maps showing habitat types and their location in the survey area;
- Use this information to determine whether protected/notable habitat and plants could be affected by the Project;
- Inform the mitigation requirements for the Project to avoid or reduce any negative impacts on protected/notable habitat and plants; and
- Inform the landscape chapter of the ES (**Application Document 6.6 Chapter 6 Landscape**) and Biodiversity Net Gain (BNG) proposals (**Application Document 7.1 Biodiversity Net Gain Report)**.

1.3 Study Area and Survey Area

Study Area

1.3.1 The study area discussed in this appendix comprises the Order Limits and a 50 metre (m) buffer with respect to statutory and non-statutory sites designated for nature conservation, HPI, designated ancient woodland and Project identified Woodland with Characteristics of Ancient Woodland (then focussing on those within or overlapping the Order Limits). A larger study area for these sites is applied and discussed within **Application Document 6.8 Chapter 8 Ecology** and listed in **Application Document 6.8.A2 Appendix 8.2 Designated Sites Information**.

1.3.2 The study area for protected/notable plants and invasive non-native plant species (INNPS) in this appendix comprises the Order Limits and a 2 kilometre (km) surrounding buffer. This wider study area allows for identification of plants that may be ecologically linked through habitat connectivity, dispersal pathways or shared hydrology or land uses to habitats within the Order Limits.

1.3.3 The study areas discussed in this appendix are defined in Table 1.1.

Table 1.1 – Study areas

Ecological receptor	Study area
International sites designated for nature conservation	Order Limits and a buffer of 50 m
National sites designated for nature conservation	Order Limits and a buffer of 50 m
Non-statutory sites designated for nature conservation	Order Limits and a buffer of 50 m
Ancient woodlands and Woodland with Characteristics of Ancient Woodland	Order Limits and a buffer of 50 m (then focussing on those within or overlapping the Order Limits)
Habitats of Principal Importance (HPI)	Order Limits and a buffer of 50 m
Protected/notable plant species, and invasive non-native plant species (INNPS)	Order Limits and a buffer of 2 km

Survey Area

1.3.4 The Phase 1 habitat survey area discussed in this appendix comprises the Order Limits and a 50 m buffer. This has been determined using professional judgement of the likely extent of impacts on terrestrial plants and habitats from the Project. See **Application Document 6.8.A10 Appendix 8.10 Aquatic Ecology Report** for consideration of aquatic habitats and plants.

1.3.5 This appendix also considers information obtained from the Project arboricultural survey, the survey area for which includes the Order Limits and a 30 m buffer (**Application Document 7.14 Arboriculture Impact Assessment**).

2. Relevant Legislation and Policy

2.1 Introduction

2.1.1 The following legislation, planning policies, guidance and publications are relevant to plants and habitats. More detailed information on legislation can be found in **Application Document 6.8 Chapter 8 Ecology**. Regional and Local policy documents are presented in **Application Document 6.8.A1 Appendix 8.1 Regional and Local Planning Policy**.

2.2 Legislation

- The Conservation of Habitats and Species Regulations 2017 (the Habitats Regulations) (HM Government, 2017);
- Countryside and Rights of Way Act 2000 (CRoW) (HM Government, 2000);
- The Hedgerows Regulations 1997 (HM Government, 1997);
- Wildlife and Countryside Act 1981 (WCA) (HM Government, 1981);
- Environment Act 2021 (HM Government, 2021);
- Natural Environment and Rural Communities Act 2006 (NERC) (HM Government, 2006);
- Regulation (EU) 1143/2014 on the prevention and management of the introduction and spread of invasive alien species (Retained EU Legislation) (The European Parliament and the Council of the European Union, 2014);
- The Invasive Alien Species (Enforcement and Permitting) Order 2019 (HM Government, 2019);
- Environmental Protection Act 1990 (HM Government, 1990); and
- The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (HM Government, 2017).

2.3 Planning Policy

- Overarching National Policy Statement (NPS) for Energy (EN-1) (Department for Energy Security & Net Zero, 2025);
- NPS for Electricity Networks Infrastructure (EN-5) (Department for Energy Security & Net Zero, 2025); and
- The National Planning Policy Framework (NPPF) as revised in August 2026 (Ministry of Housing, Communities & Local Government, 2026).

2.4 Guidance and Publications

- Guidelines for Ecological Impact Assessment in the UK and Ireland Terrestrial, Freshwater, Coastal and Marine, 2024 (Chartered Institute of Ecology and Environmental Management, 2024)
- Joint Nature Conservation Committee (JNCC) Handbook for Phase 1 habitat survey, (revised 2016) (Joint Nature Conservation Committee , 2010);
- Protected species and development: advice for local planning authorities, updated 2025 (Natural England and Department for Environment, Food & Rural Affairs, 2014);
- The International Union for Conservation of Nature (IUCN) Red List of Threatened Species, 2025 (International Union for Conservation of Nature, 2025);
- GB Red List for Vascular Plants. Botanical Society of Britain & Ireland (2025) (Stroh, 2025);
- The England Vascular Plant Red List (2014) (Stroh P, 2014);
- The Ancient Woodland Inventory (Natural England, 2026) and associated Ancient Woodland - Revised (England) - Completed Counties dataset (Natural England, 2026)[1]
- Section 41 (s41) list of Habitats and Species of Principal Importance for Conservation in England (2022) (Department for Environment, 2022); and
- United Kingdom Technical Advisory Group (UKTAG) River Assessment Method Macrophytes and Phytobenthos: Macrophytes (River LEAFPACS2) (Water Framework Directive UK Technical Advisory Group, 2014).

[1] The Ancient Woodland Inventory (Natural England, 2026) is the only dataset showing designated ancient woodland across the whole of England. Natural England is in the process of updating this dataset on a county-by-county basis (for example refining boundaries using modern mapping techniques and including smaller areas of woodland than previously considered), and where available these revised data (Natural England, 2026) are used in preference. The revised data set only covers part of the study area.

3. Methods

3.1 Desk-based Study

3.1.1 The baseline information presented in this appendix has been informed by a desk-based study, which has drawn on information from Local Records Centres (LRC) and online data sources.

3.1.2 Relevant LRCs were contacted to obtain pre-existing ecological data (i.e. locations of non-statutory sites designated for nature conservation, existing records of protected/notable plant species, and INNPS). The relevant LRCs contacted and the most recent dates of data received were:

- North and East Yorkshire Ecological Data Centre (data received in December 2025);
- Greater Lincolnshire Nature Partnership (data received in January 2026); and
- Nottinghamshire Biological and Geological Records Centre (data received in October 2025).

3.1.3 Online data sources that were reviewed are:

- The Natural England website (Natural England, n.d.) for information on statutory designated sites of nature conservation interest and to confirm reasons for designation and their condition;
- The Department for Environment, Food and Rural Affairs' (Defra) Multi-Agency Geographic Information for the Countryside (MAGIC) website (Department for Environment, Food and Rural Affairs, 2026) to identify the location (and details) of statutory designated sites for habitats, ancient woodland, and HPI (noting that this website draws together data from a number of government agencies);
- The Joint Nature Conservation Committee (JNCC) website (Joint Nature Conservation Committee, 2025) for site information and designation details of Special Areas of Conservation (SAC) and Ramsar sites[2];
- Aerial imagery (Google Maps);
- The East Riding of Yorkshire Biodiversity Action Plan (BAP) (East Riding of Yorkshire Council, 2010);
- Lincolnshire BAP (Lincolnshire Biodiversity Partnership, 2011);
- Nottinghamshire Local Biodiversity Action Plan (LBAP) (Nottinghamshire Local Biodiversity Action Group, 2020);
- Yorkshire and Humber Regional Biodiversity Strategy (The Yorkshire and Humber Biodiversity Forum, 2009);

[2] Special Protection Areas (SPA) are not addressed in this appendix, as they do not relate to habitat considerations. For further information on SPAs please see **Application Document 6.8 Chapter 9 Ornithology.**

- Ouse and Humber Strategic Sub-catchment Area Biodiversity Action Plan (JBA Consulting, 2010);
- Woodland Trust Ancient Tree Inventory (Woodland Trust, 2026) for records of veteran and ancient trees;
- Data relating to protected/notified verges from the relevant local authorities.
- Historic Environment Record (HER) data from Humber, North Lincolnshire and Nottinghamshire HER offices, which provide data relating to non-designated heritage assets, archaeological fieldwork and assessment events, and historic landscape character assessment; and
- Historic maps available through the National Library of Scotland (National Library of Scotland, 2026), The Genealogist (Geneaology Supplies, 2026), and other available online sources.

3.1.4 Additional reports that were reviewed are:

- **Application Document 6.8.A4 Appendix 8.4 Botanical Report**;
- **Application Document 6.8.A10 Appendix 8.10 Aquatic Ecology Report**;
- **Application Document 7.13 Arboriculture Impact Assessment**; and
- The Keadby 3 Low Carbon Gas Power Station Project. Environmental Statement Volume II - Appendix 11C: Preliminary Ecological Appraisal Report (Keadby Generation Limited, 2021) (AECOM, 2021)[3].

3.2 Field Surveys

Phase 1 Habitat Survey

3.2.1 Phase 1 habitat survey is a standard method of environmental audit and involved categorising different habitat types and habitat features in the survey area and recording these using standard Phase 1 Habitat survey codes as described in the Handbook for Phase 1 habitat survey: A technique for environmental audit (Joint Nature Conservation Committee , 2010). In summary, this comprised walking over the habitats within and up to 50 m of the Order Limits (where accessible) and recording the habitats present. The applied approach accords with the Guidelines for Preliminary Ecological Appraisal published by the Chartered Institute of Ecology and Environmental Management (Chartered Institute of Ecology and Environmental Management, 2017).

3.2.2 The Phase 1 habitat survey reported in this appendix and used to inform the assessment presented in **Application Document 6.8 Chapter 8 Ecology** was carried out between October 2023 and November 2025.

3.2.3 Additional targeted Phase 1 habitat surveys commenced in Spring 2026 and are expected to be completed by late Summer, to capture late changes to the Order Limits, and any areas previously not open to survey which have become available. The results of these surveys are not included within the habitat baseline presented in this appendix and will be reported separately alongside an updated assessment in an addendum report.

[3] This information was interrogated as the Preliminary Ecological Appraisal Report and associated survey data for the Keadby 3 Low Carbon Gas Power Station Project coincides with part of the Order Limits in Route Section C and therefore provides useful background information for this part of the Project.

Invasive Non-native Plant Species

3.2.4 Identification and recording of INNPS was carried out during the Phase 1 habitat survey, as well as during other targeted ecological surveys within the Order Limits.

Incidental Records

3.2.5 Protected/notable plants were identified and recorded during the Phase 1 habitat survey, as well as during other targeted ecological surveys within the Order Limits.

3.3 Personnel

3.3.1 All lead surveyors were trained ecologists and members of the Chartered Institute of Ecology and Environmental Management (CIEEM).

3.4 Nomenclature

3.4.1 Common and scientific names of species recorded follow The New Flora of the British Isles (Stace, 2019).

3.5 Assumptions and Limitations

Desk-based Study

3.5.1 The aim of the desk-based study was to characterise the baseline context of the Project and provide valuable background information that would not be captured by surveys alone. Information obtained during a desk-based study is dependent on records submitted by individuals and organisations for the area of interest; therefore, an absence of records for habitats or species does not necessarily indicate that they are not present within the study area. Conversely, the presence of records does not automatically confirm that habitats or species are still present or relevant in the context of the Project.

3.5.2 The level of detail and accuracy of these third-party records is reliant on the quality of information provided to the LRCs from a range of sources. Furthermore, the precision of records provided from the LRCs can vary, with accuracy ranging from 100 m to 10 km, depending upon the source of the data.

Phase 1 Habitat Survey

3.5.3 Owing to programme constraints, elements of the Phase 1 habitat survey were conducted outside of the optimal survey season. However, as the majority of the survey area comprised arable land, this was not considered a significant limitation. Habitats identified as having the potential for greater botanical interest were recorded and subsequently subject to further survey at a more appropriate time of year, where practicable.

3.5.4 Every effort was made to secure access to the entirety of the Order Limits. Where access could not be obtained, survey observations were conducted from adjacent land and supplemented by professional interpretation of high-definition aerial mapping (OS Terrain® 50 mid-resolution and LIDAR Composite 2017-50 cm (DTM), hereafter referred to as orthophotos) and historical aerial imagery data available on Google Maps. This is not considered to represent a significant limitation.

3.5.5 Nature Conservation Evaluation of habitats and plant species (biodiversity features) are required to inform the ES. The importance of each relevant biodiversity feature has been defined to the geographical scale at which it matters. The method of evaluation has been developed with reference to the CIEEM Guidelines for Ecological Impact Assessment in the UK and Ireland – Terrestrial, Freshwater and Coastal and Marine (Chartered Institute of Ecology and Environmental Management, 2024).

3.5.6 These guidelines advise on scoping and carrying out environmental assessments, and place appraisal in the context of relevant policies. Data received through consultation, desk-based studies and field-based surveys are used to allow ecological features of nature conservation importance or potential importance to be identified, and the main factors contributing to their importance are described and related to available guidance.

3.5.7 The frames of reference for this assessment are based on current best practice (Chartered Institute of Ecology and Environmental Management, 2024) and are:

- International (generally this is within a European context, reflecting the general availability of good data to allow cross-comparison);
- UK or National (Great Britain, but considering the potential for certain biodiversity features to be more notable (of higher value) in an English context relative to Great Britain as a whole);
- Regional (Yorkshire and the Humber, and East Midlands);
- County (East Riding of Yorkshire, Nottinghamshire, and North Lincolnshire);
- District (town or parish area, for example Garthorpe);
- Local (ecological features that do not meet criteria for valuation at a District or higher level, but that have sufficient value to merit retention or mitigation); and
- Site (common and widespread ecological features, the priority of which is low enough that they do not require retention or mitigation at the relevant location to otherwise maintain a favourable nature conservation status).

4. Results

4.1 Overview

4.1.1 The results of the desk-based study are shown in the following figures in Annex A:

- **Figure A8.3.1 - Phase 1 Habitat Survey Map**; and
- **Figure A8.3.2 – Records of Protected/Notable Plants and Invasive Non-Native Plant Species**[4]

4.1.2 For relevant statutory and non-statutory designated sites, HPI and ancient woodland in the study area and the wider environment see the following figures:

- **Application Document 6.8.F1 Figure 8.1 International Sites Designated for Nature Conservation within 10 km and National and Local Statutory Designated Sites within 5 km**; and
- **Application Document 6.8.F2 Figure 8.2 Nature Conservation Non-Statutory Designated Sites and Priority Habitat within 2 km**.

4.2 Desk-based Study Results

Statutory Designated Sites

4.2.1 All international statutory sites designated for nature conservation (with respect to habitats, plants and fungi) that are within the 50 m study area are shown in Table 4.1. Full details of the reasons for their designation are presented in **Application Document 6.8.A2 Appendix 8.2 Designated Sites Information**. These sites are of **International** importance.

[4] within 2 km of Order Limits from records provided by LRCs, and within 50 m of Order Limits from incidental field survey observations.

Table 4.1 – International statutory designated sites for nature conservation in the 50 m study area

Designated site	Reason for designation with respect to habitats, plants or fungi	Location of designated site
Humber Estuary SAC	Annex I habitats (The Council of the European Communities, 1992). that are a primary reason for selection: • Estuaries; and • Mudflats and sandflats not covered by seawater at low tide. Annex I habitats present as a qualifying feature, but not a primary reason for selection of this site: • Sandbanks which are slightly covered by sea water all the time; • Coastal lagoons (*priority feature); • *Salicornia* and other annuals colonising mud and sand; • Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*); • Embryonic shifting dunes; • Shifting dunes along the shoreline with *Ammophila arenaria* (white dunes); • Fixed coastal dunes with herbaceous vegetation (grey dunes) (*Priority feature); and • Dunes with *Hippophae rhamnoides*.	Partly inside the Order Limits Route Section B in relation to the River Ouse crossing
Humber Estuary Ramsar	The site is designated for: Ramsar Criterion 1: The site is a representative example of a near-natural estuary with the following component habitats: dune systems and humid dune slacks, estuarine waters, intertidal mud and sand flats, saltmarshes, and coastal brackish/saline lagoons.	Partly inside the Order Limits Route Section B in relation to the River Ouse crossing

4.2.2 All national statutory sites designated for nature conservation (with respect habitats, plants and fungi) that are within the 50 m study area are shown in Table 4.2. Full details of the reasons for their designation are presented in **Application Document 6.8.A2 Appendix 8.2 Designated Sites Information**. These sites are of **National** importance.

Table 4.2 – National statutory designated sites for nature conservation in the 50 m study area

Designated site	Reason for designation with respect habitats, plants or fungi	Location of designated site
Brantingham Dale Site of Special Scientific Interest (SSSI)	The SSSI is primarily designated for calcareous grassland. The site supports a mosaic of species-rich chalk grassland amid extensive areas of scrub invasion and young woodland.	Partly inside the Order Limits Route Section A
Humber Estuary SSSI	The SSSI is designated for a series of nationally important habitats. These are the estuary itself (with its component habitats of intertidal mudflats and sandflats and coastal saltmarsh) and the associated saline lagoons, sand dunes and standing waters. It is also nationally important for its vascular plant assemblage.	Partly inside the Order Limits Route Section B in relation to the River Ouse crossing
Crowle Borrow Pits SSSI	Crowle Borrow Pits lie either side of the embankment of a disused railway line and include a variety of habitats, including acid grassland, broadleaved, mixed and yew woodland, and fen, marsh and swamp. Several locally uncommon plant species occur at the site.	Adjacent to the Order Limits Route Section C
Chesterfield Canal SSSI	This site is a 20 km stretch of canal between Retford and Misterton in north Nottinghamshire and supports a nationally uncommon aquatic plant community characteristic of the brackish, eutrophic (nutrient-rich) water. The flora includes nationally scarce species. The presence of this brackish water community, over 50 km inland, is of particular interest.	Partly inside the Order Limits Route Section E
Treswell Wood SSSI	Treswell Wood SSSI comprises one of the best examples of an ash-oak-maple wood in Nottinghamshire and is representative of ancient semi-natural woodland on heavy clay soils in Eastern and Central England. A number of plants indicative of ancient semi-natural woodland, including sweet woodruff (*Asperula odorata*), wood sorrel (*Oxalis acetosella*), primrose (*Primula vulgaris*), wood anemone (*Anemone nemorosa*), herb paris (*Paris quadrifolia*), early purple orchid (*Orchis mascula*), and other woodland orchids are present. Additional interest is provided by the presence of woodland rides, watercourses and ponds, and by the varied breeding bird community.	Partly inside the Order Limits Route Section E in relation to the BNG Opportunity Area.

Non-statutory Designated Sites

4.2.3 Table 4.3 summarises the non-statutory designated sites, with respect to habitats, plants and fungi, in the 50 m study area. Full details of the reasons for their designation are presented in **Application Document 6.8.A2 Appendix 8.2 Designated Sites Information**. Non-statutory sites designated for nature conservation include Local Wildlife Sites (LWS), Candidate LWS, Historic LWS, and Wildlife Trust Reserves. Sedge Hole Close is both a LWS and a Wildlife Trust Reserve, and a combined description is therefore provided. These sites are of **County** importance.

Table 4.3 – Non-statutory designated sites for nature conservation in the 50 m study area

Designated site	Reason for designation with respect to habitats, plants or fungi	Location of designated site
East Riding of Yorkshire		
Brantingham Dale Historic LWS	No information available.	Partly inside the Order Limits Route Section A
Jillywood Lane LWS	The site comprises good quality hedgerow, a medieval boundary and ancient woodland boundary.	Partly inside the Order Limits Route Section A
Broomfleet Pits LWS	The site comprises good quality rich-fen and nutrient-rich standing water.	Adjacent to the Order Limits Route Section A
Woodale Historic LWS	No information available.	Adjacent to the Order Limits Route Section A
Cliffs Plantation Candidate LWS	The site comprises semi-natural broadleaved woodland.	Adjacent to the Order Limits Route Section A
Risby Park with Fishpond Wood LWS	The site comprises a mosaic of semi-natural habitats including grassland, woodland and wetland, with field evidence of features of ancient or long-standing neutral grassland and neutral-calcareous woodland.	10 m from the Order Limits Route Section A
Lincolnshire		
Sedge Hole Close LWS and Wildlife Trust Reserve	The site comprises three distinct habitats: a small, botanically rich, ridge-and-furrow hay meadow in the north; unmanaged wet woodland and shallow water in the south; and unmanaged scrub and other coarse vegetation in the southwest. The uncommon pale sedge (*Carex pallescens*) is known to be present, in addition to adder's tongue fern (*Ophioglossum vulgatum*) - an indicator species for ancient, undisturbed meadows, and the scarce fine-leaved water dropwort (*Oenanthe aquatica)*.	Partly inside the Order Limits Route Section D

Designated site	Reason for designation with respect to habitats, plants or fungi	Location of designated site
Folly Drain North LWS	The main habitats present within this LWS are a drain, coarse grassland and reedbed. Much of the adjoining land is of value for its drain flora and fauna, including part of Hatfield Chase Ditches SSSI.	Partly inside the Order Limits Route Section C and D
Hatfield Waste Drain LWS	This site is 10 km of botanically rich canalised drain and its banks, parts of which are very close to, or adjacent to, Hatfield Chase Ditches SSSI. The LWS supports a very rich aquatic, emergent and marginal flora.	Partly inside the Order Limits Route Section C and D
North Engine Drain, Belton LWS	The main habitats present in this LWS are semi-improved neutral grassland, scattered and dense scrub and running water. The site supports a very rich aquatic, emergent and marginal flora.	Partly inside the Order Limits Route Section C
Pauper's Drain LWS	The site is a west-east orientated 7 km stretch of canalised watercourse, with steep banks almost throughout. All parts are rich in wetland plants.	Partly inside the Order Limits Route Section B
River Torne LWS	The main habitats present within this LWS are semi-improved neutral grassland, semi-improved calcareous grassland, coarse grassland, running water and standing water. The river and other water features support a rich aquatic, emergent and marginal flora.	Partly inside the Order Limits Route Section C and D
South Engine Drain, Belton LWS	The main habitats present in this LWS are semi-improved neutral grassland, running water and reedbed. The site supports a rich aquatic, emergent and marginal flora.	Partly inside the Order Limits Route Section C
Stainforth and Keadby Canal Corridor LWS	The main habitats present in this LWS are drain, canal, coarse grassland and reedbed. The canal supports a rich aquatic flora throughout its length.	Partly inside the Order Limits Route Section C
Warping Drain Corridor LWS	This LWS is an exceptionally important continuous strip of wildlife habitats, particularly fen/marsh, acidic and neutral grassland, and scattered and dense scrub with trees. Warping Drain has a very rich flora of aquatic and emergent species including the locally uncommon whorled water-milfoil (*Myriophyllum verticillatum*).	Partly inside the Order Limits Route Section D

Designated site	Reason for designation with respect to habitats, plants or fungi	Location of designated site
South Moor Covert and Fishpond Plantation LWS	The main habitats present are semi-natural woodland and a pond with a diverse native ground flora and aquatic and emergent flora. Located to the west of the road, northern and central parts of the semi-natural woodland are characterised by many artificial depressions that are water-filled except in times of drought. Further south, the woodland floor is much more level. The small, triangular site east of the road comprises an elongated pond surrounded by sparse woodland that is actively managed as a wooded garden. Although there has been planting of both wetland and woodland species, the native flora is of interest.	Partly inside the Order Limits Route Section D
Three Rivers LWS	The main habitats present within this LWS are scattered and dense scrub, semi-improved neutral grassland and running water. The watercourses support a rich aquatic, emergent and marginal flora.	Adjacent to the Order Limits Route Section C
Nottinghamshire		
Dolegate Road, East Drayton LWS	The site comprises species-rich roadside verges.	Partly inside the Order Limits Route Section E
Chesterfield Canal (Welham to Misterton) LWS	This section of the Chesterfield Canal supports a rich diversity of marginal plant species. The canal runs through a mostly arable landscape, providing a corridor for wildlife both in the canal and along the hedgerows and trees which line its banks.	Partly inside the Order Limits Route Section E
Caddow Wood (Southern Assarts) LWS	The site is a discontinuous and rather open old woodland of some botanical interest. The ground flora is indicative of ancient woodland.	Adjacent to the Order Limits Route Section E
Retford Gate Green Lane LWS	The LWS comprises unimproved neutral grassland with noteworthy herbs and communities along a green lane.	Partly inside the Order Limits Route Section E
Treswell Wood LWS and Wildlife Trust Reserve	The woodland supports an exceptionally diverse ancient woodland flora and is recognised as one of the finest examples of ash–oak–field maple woodland in Nottinghamshire. Its long ecological continuity is reflected by the presence of ancient woodland indicator species, including wood anemone, bluebell	The LWS is adjacent to the Order Limits. The Wildlife Trust Site is partly within the Order Limits. Route Section E

Designated site	Reason for designation with respect to habitats, plants or fungi	Location of designated site
	(*Hyacinthoides non-scripta*) and primrose, which are characteristic of well-established semi-natural woodland.	
Saundby Park Wood LWS	The site comprises a large and mostly undisturbed dry secondary woodland site.	Adjacent to from the Order Limits Route Section E
Marnham Railway Yard Candidate LWS	This site comprises a strip of land along the southern side of an old disused railway line. It includes parts of the former Fledborough Station with areas of hardstanding having been colonised by plants and lichens. Species here include common cudweed (*Filago vulgaris*), field madder (*Sherardia arvensis*), thyme-leaved sandwort (*Arenaria serpyllifolia*), common bird's-foot-trefoil (*Lotus corniculatus*), and mouse-ear-hawkweed (*Pilosella officinarum*). To the south of this dry, open area the vegetation comprises tall ruderal, coarse grassland and scrub communities.	6 m from the Order Limits Route Section F
Fledborough to Harby Dismantled Railway LWS	This LWS is a long length of dismantled railway line with a rich diversity of characteristic and notable herbs.	8 m from the Order Limits Route Section F
Tongs and Dogholes Woods LWS	The site comprises two small deciduous broadleaved woodlands situated in an arable landscape surrounded by fields. The ground flora contains plant species indicative of ancient woodland, including wood anemone, greater stitchwort (*Stellaria holostea*), dog's mercury (*Mercurialis perennis*), and yellow archangel (*Lamiastrum galeobdolon*).	14 m from the Order Limits Route Section E
Mother Drain, Misterton LWS	This section of the Mother Drain is bordered by a flood bank along part of its northern side, the ground in between the bank and drain being dominated by a tall herb community with areas of unimproved neutral grassland. The site is of importance for invertebrates, notably moths and water beetles.	14 m from the Order Limits Route Section D and E
High House Road Verges, Sturton le Steeple LWS	The verges of this track/bridleway are backed by shallow ditches and well-maintained hedgerows. The verges support quite a coarse sward but with a wide range of forbs.	21 m from the Order Limits Route Section E

Ancient Woodland

4.2.4 Ancient woodland includes all woodland that has existed continuously since 1600. Wooded continuously does not mean that there has been continuous tree cover across the whole site since 1600. Open ground, both temporary and permanent, is an important component of ancient woodlands. Further, the trees and shrubs in ancient woodlands may have been felled or cut for coppice at various times since 1600 CE. Providing the area has remained as woodland i.e. the coppice stools have re-grown, or the stand has been replanted soon after felling, then it still qualifies as ancient woodland. As the woodland may have been cut over many times in the past, ancient woodland does not necessarily contain old trees (Sansum, P. & Bannister, N.R, 2018) (Natural England and Forestry Commission, 2022). Ancient woodlands can be classified into different categories, including ancient semi-natural woodlands and plantations on ancient woodland sites (Department for Environment, Food and Rural Affairs, 2026). Ancient woodland typically supports a specialised ground flora, including a range of ancient woodland indicator species that are slow to colonise and indicative of long-term woodland continuity. The presence of such species can assist in the identification of ancient woodland, although they may be absent or reduced in areas subject to disturbance or intensive management.

4.2.5 Review of Natural England's Ancient Woodland Inventory (Natural England, 2026) and associated Ancient Woodland - Revised (England) - Completed Counties dataset (Natural England, 2026) (as viewed via the Magic website, (Department for Environment, Food and Rural Affairs, 2026)) identified one area of designated ancient woodland (Treswell Wood) within the Order Limits. This is due to a very small overlap with the Biodiversity Net Gain Opportunity Area only, noting that this woodland lies approximately 0.18 km west of areas of the Order Limits in which construction works will occur. A further area of ancient and semi natural woodland, Tongs and Dogholes Woods, is present within the study area approximately 14 m west of the Order Limits. Both these woodlands are located in Route Section E.

Woodland with Characteristics of Ancient Woodland

4.2.6 A review of historical mapping, data collected during the Phase 1 habitat survey, and further targeted botanical surveys (where access was possible) identified eight woodlands within the study area with characteristics of ancient woodlands. These areas showed possible woodland continuity[5], with some, but not all, also having ecological characteristics associated with ancient woodland, such as the presence of ancient woodland indicator species. See Table 4.4 and **Application Document 6.8.A4 Appendix 8.4 Botanical Report.**

[5] Ancient woodland includes all woodland that has existed continuously since 1600. Wooded continuously does not mean that there has been continuous tree cover since 1600. As long as the area as a whole has remained as woodland i.e. coppice stools have re-grown, or the stand has been replanted soon after felling, then it still qualifies as ancient woodland, also noting that open ground is an important component of ancient woodlands. Woodlands which came into being after 1600 are not ancient.

Table 4.4 – Woodland with Characteristics of Ancient Woodland within 50 m of the Order Limits

Woodland name	Route Section	Designation	Results of historical mapping studies and botanical surveys
Jillywood Lane	A	LWS	Wooded headland on historic maps from 1800s. Likely that the woodland was cleared to the headland and a treeline left along the footpath/Jillywood Lane as treelined footpaths are a common characteristic of East Riding. The footpath marks the boundary between the tithe map sheets and townships of Cottingham (1839) and Bentley (1838) which increases likelihood that the treeline was left at this point to emphasise the boundary. Ancient woodland indicator plants recorded from Phase 1 survey and targeted botanical survey.
Socken Wood	A	N/A	Wooded on historic maps from 1800s. Likely to be the remnants of assarting[6] shown on the 1824 map, especially when viewed alongside the woodland belts to the east and the fact that the fields to the south have been 'cleared' and enclosed by Land Enclosure Act 1801 for cropfields. An extension of the woodland to the east is described as woodland plantation on the tithe apportionment and 1840 Inclosure map of Swanland Township again confirming woodland presence. The earlier 1771 Jeffery map is of insufficiently detailed to show all woodland. Placename evidence would suggest an early origin for the wood although this is not definitive, as it could have been given a legacy name much later. However, the term ‘socken’ derives from Norse and refers to a specific area or township, so the name may indicate woodland in this area from at least the 9th century. Ancient woodland indicator plants were recorded from Phase 1 survey and targeted botanical survey.
Brantingham (small wood adjacent to Ellerker Road)[7]	A	N/A	Wooded on historic maps from 1800s. Comparison made using the landscape features that are common to the 1824 map and later 1855 map. Using the course of the Ring Beck as a fixed feature on both the 1824

[6] Assarting is the act of clearing forested lands for use in agriculture or other purposes.

[7] Note Brantingham (small wood adjacent to Ellerker Road) is not part of Brantingham Dale woodland.

Woodland name	Route Section	Designation	Results of historical mapping studies and botanical surveys
			and 1855 maps, then the triangle of woodland is the same as that on the earlier map from 1824. No ancient woodland indicator plants recorded during Phase 1 survey and targeted botanical survey.
South of Dog Horse Plantation	D	N/A	Wooded on historic map from 1800s. For the east-west tree belt named by the Project as 'South of Dog Horse Plantation', the Belton Tithe map 1844 suggests clear separation with Dog Horse Plantation. The east-west belt is occupied by Old Lane on tithe which is tithe free. The east-west belt borders the northern edge of a long fishpond which were common status features of medieval and post-medieval estates. Association with historic landscape features suggest it could be ancient (has existed continuously since 1600). No ancient woodland indicator plants recorded during Phase 1 survey. Unable to complete targeted botanical survey due to access.
Dixon Wood	D	N/A	Wooded on historic map from 1800s. The western block of woodland is shown on earliest maps and is described on tithe as Dickson Wood, note wood and not plantation. The eastern part of the woodland is modern called Eight Acres on the tithe plan. No ancient woodland indicator plants recorded during Phase 1 survey. Unable to complete targeted botanical survey due to access.
Wood Farm	E	N/A	Wooded on historic map from 1800s. This section of woodland was present on the earliest OS map. There is no evidence to suggest it represents later planting. Tithes for this area have not been digitised so are not available online. The location of the woodland on the edge of a small watercourse and bounded north and south by enclosed crop fields suggests it represents the remains of cut back woodland. Not surveyed – unable to access due to dense scrub.

Woodland name	Route Section	Designation	Results of historical mapping studies and botanical surveys
Saundby Park Wood	E	LWS	Likely wooded on historic map from 1800s in association with marshland. The low elevation would suggest a greater potential for the area to be marshland, and not woodland. However, as much of Saundby is under 5 m AOD, this is not sufficient evidence to dismiss the possibility that woodland was present. The HER data show Roman pottery scatter to the north (large sherds) indicative of settlement in locality providing further evidence that settlement/woodland was possible at this elevation. The woodland is possibly associated with Saundby Park Farm, a suggestion based on only on the clear associative placename relationship, and it would be just as relevant to say that the farm name came from the manor and existing wood. The evidence is therefore inconclusive as to the status of this woodland, but it should be considered as potentially ancient as a worst case. Unable to survey during Phase 1 survey. Ancient woodland indicator plants recorded during targeted botanical survey.
Pigeon Field	F	N/A	Wooded on historic map from 1800s. Tithe shows that surrounding farmland is named after woodland (Twelve Acre Wood Moor, and Little Wood Moor to the west), so by placename evidence alone, it is likely that this wood could be ancient (has existed continuously since 1600). No ancient woodland indicator plants recorded during Phase 1 survey. Unable to complete targeted botanical survey due to access.

4.2.7 Ancient woodland takes hundreds of years to establish and is defined as an irreplaceable habitat (Natural England and Forestry Commission, 2022) and as such is a habitat of **National** importance.

Ancient or Veteran Trees

4.2.8 The Woodland Trust's Ancient Tree Inventory (Woodland Trust, 2026) does not identify any ancient or veteran trees within or up to 50 m of the Order Limits.

4.2.9 Veteran trees within the Order Limits plus a 30 m buffer were recorded through arboricultural carried out between July 2024 and February 2026. Thirty-seven veteran trees were recorded as detailed in **Application Document 7.14 Arboricultural Impact Assessment** and shown in the Arboricultural Impacts Plan which forms Appendix D of that document. Veteran trees are considered to be of **National** importance.

Habitats of Principal Importance

4.2.10 Habitats recorded on the Priority Habitat Inventory (Natural England, 2025) present within the Order Limits and the study area are listed in Table 4.5. Priority habitats are of **County** importance.

Table 4.5 – Priority habitats within the Order Limits and study area

Priority Habitat	Total area inside the Order Limits (ha)	Total area inside the study area (ha)
Traditional orchard	0.007	1.89
Lowland meadows	0.01	0.52
Reedbeds	0.04	6.03
Mudflats	0.24	0.49
Good quality semi-improved grassland	0.25	0.36
Lowland calcareous grassland	0.86	1.70
No main habitat but additional habitats present	0.91	2.10
Lowland dry acid grassland	1.45	5.80
Coastal saltmarsh	1.62	3.27
Deciduous woodland	11.32	46.38
Open mosaic habitat (draft)	5.89	20.12
Lowland fen	00 0.00	0.05

4.2.11 Other HPI, as listed under s41 of the NERC Act 2006 (HM Government, 2006) that are present within the Order Limits and survey area and were identified through the Phase 1 habitat survey are:

- Hedgerow; and
- River.

4.2.12 Some ponds inside the Order Limits may meet the criteria of Priority Habitat (Joint Nature Conservation Committee, 2011), such as those which support great crested newts (GCN) (*Triturus cristatus*). However, the characteristics of each pond were not surveyed in detail beyond the requirements for Habitat Suitability Index for GCN, as with the potential exception of one pond (not a priority pond), they will be retained as part of the Project. Pond 015A is located within the working area of pylon 4AF39 and may potentially impacted by the works if avoidance of this non-priority pond through micro-siting at detailed design is not achievable.

Protected/Notable Plant Species

4.2.13 Protected or notable plant species recorded within 2 km of the Order Limits are presented in Table 4.6. The desk study data were received from the Nottinghamshire Biological and Geological Records Centre in November 2025, the North and East Yorkshire Ecological Data Centre in December 2025, and the Greater Lincolnshire Nature Partnership in January 2026.

4.2.14 Each dataset provided within this report covers a ten-year period only, as these are the most relevant. Accordingly, data from the Nottinghamshire Biological and Geological Records Centre and North and East Yorkshire Ecological Data Centre include records from 2015 to 2025, while the Greater Lincolnshire Nature Partnership data include records from 2016 to 2026.

4.2.15 The exception to this approach is for species listed in statutory site citations located within 50 m of the Order Limits, where older records supplied by the LRC have also been included.

4.2.16 Any data collected by the LRCs outside of the specified dates are not included in the baseline assessment.

4.2.17 Some records are available only at a coarse spatial resolution. Where the grid square associated with a record overlaps the Order Limits, the record is included as being within the Order Limits to represent a worst case, although the actual location may lie elsewhere within the wider grid square and therefore beyond the Order Limits or study area.

4.2.18 Protected and notable species data comprises the following:

- Species listed under Schedules 1, 5, and 8 of the WCA 1981 (HM Government, 1981);
- Species listed under Schedules 2 and 4 of The Habitats Regulations 2017 (HM Government, 2017);
- Species listed as of Principal Importance under NERC Act 2006 (HM Government, 2006);
- Species listed on A New Vascular Plant Red List for Great Britain 2025 (Stroh, 2025) (apart from those of Least Concern);

- Species listed on A Vascular Plant Red List for England 2014 (Stroh P, 2014) (apart from those of Least Concern);
- Species listed on local BAPs; and
- Species listed as being of importance to Nottinghamshire, as identified by Nottinghamshire Biological and Geological Records Centre.

4.2.19 Abbreviations of the legal protection/consideration denoted in Table 4.6, and later in Table 4.9, comprise the following:

- WCA 1981 (Schedule 8) – Indicates that species is listed under Schedule 8 of the WCA 1981 (HM Government, 1981);
- GBRL-END - Indicates that species is listed as Endangered on the GB Vascular Plant Red List (Stroh, 2025);
- GBRL-VU - Indicates that species is listed as Vulnerable on the GB Vascular Plant Red List (Stroh, 2025);
- GBRL-NT - Indicates that species is listed as Near Threatened on the GB Vascular Plant Red List (Stroh, 2025);
- ENRL-CR - Indicates that species is listed as Critically Endangered on the England Vascular Plant Red List (Stroh P, 2014);
- ENRL-END - Indicates that species is listed as Endangered on the England Vascular Plant Red List (Stroh P, 2014);
- ENRL-VU - Indicates that species is listed as Vulnerable on the England Vascular Plant Red List (Stroh P, 2014);
- ENRL-NT - Indicates that species is listed as Near Threatened on the England Vascular Plant Red List (Stroh P, 2014);
- S41 - Indicates that species is listed as s41 Species of Principal Importance in England under NERC Act 2006 (HM Government, 2006);
- County (Notts) – Indicates species is of county rarity/scarcity, has suffered county decline, that Nottinghamshire holds a significant proportion of national population, or the species is vulnerable (Nottinghamshire Local Biodiversity Action Group, 2020);
- ERY BAP - Indicates that species is listed as an East Riding of Yorkshire Local BAP Species of Concern (East Riding of Yorkshire Council, 2010);
- Lincs BAP - Indicates that species is listed as a Lincolnshire Local BAP Species of Concern (Lincolnshire Biodiversity Partnership, 2011); and
- Notts BAP - Indicates that species is listed as a Nottinghamshire Local BAP Species of Conservation (Nottinghamshire Local Biodiversity Action Group, 2020).

4.2.20 Yorkshire and Humber Regional Biodiversity Strategy (The Yorkshire and Humber Biodiversity Forum, 2009) and Ouse and Humber Strategic Sub-catchment Area Biodiversity Action Plan (JBA Consulting, 2010) do not make reference to individual plant species of conservation concern.

Table 4.6 – Protected/notable plants recorded within 2 km of the Order Limits

Species	Legal protection/ consideration	Year of record	Location of species
Bluebell	WCA 1981 (Schedule 8)	2016	Within the Order Limits
Common cudweed	ENRL-NT	2019	Within the Order Limits
Common rock-rose (*Helianthemum nummularium*)	ENRL-NT, County (Notts), Notts BAP	1982 but within Brantingham SSSI citation	Within the Order Limits
Dark mullein (*Verbascum nigrum*)	County (Notts), Notts BAP	2015	Within the Order Limits
Dwarf spurge (*Euphorbia exigua)*	GBRL-VU, ENRL-VU	2019	Within the Order Limits
Field scabious (*Knautia arvensis*)	ENRL-NT	2019	Within the Order Limits
Green winged orchid (*Anacamptis morio*)	GBRL-NT, ENRL-VU, Notts BAP	2019	Within the Order Limits
Opposite leaved pondweed (*Groenlandia densa*)	GBRL-END, ENRL-VU, Notts BAP	2019	Within the Order Limits
Quaking grass (*Briza media*)	GBRL-VU, ENRL-NT	2019	Within the Order Limits
Rye brome (*Bromus secalinus*)	ENRL-NT, Notts BAP	2019	Within the Order Limits
Small pondweed (*Potamogeton berchtoldii*)	County (Notts), Notts BAP	1970 but within Chesterfield Canal SSSI citation	Within the Order Limits
Linton's pondweed (*Potamogeton* x *lintonii*)	County (Notts)	1986 but within Chesterfield Canal SSSI citation	Within the Order Limits
Wild pansy subspecies (*Viola tricolor* subsp. *tricolor*)	GBRL-VU, ENRL-NT	2019	Within the Order Limits
Wood sorrel	ENRL-NT	2019	Within the Order Limits
Spiny restharrow (*Ononis spinosa*)	ENRL-NT	2016	0.007 km from the Order Limits
Columbine (*Aquilegia vulgaris*)	County (Notts), Notts BAP	2015	0.04 km from the Order Limits

Species	Legal protection/ consideration	Year of record	Location of species
Greater butterfly orchid (*Platanthera chlorantha*)	GBRL-NT	2017	0.07 km from the Order Limits
Small cudweed (*Logfia minima*)	ENRL-NT	2015	0.07 km from the Order Limits
Lesser spearwort (*Ranunculus flammula*)	ENRL–VU	2016	0.15 km from the Order Limits
Small flowered buttercup (*Ranunculus parviflorus*)	Notts BAP	2015	0.2 km from the Order Limits
Wild strawberry (*Fragaria vesca)*	ENRL-NT	2008 but within Brantingham SSSI citation	0.2 km from the Order Limits
Large leaved lime (*Tilia platyphyllos*)	Notts BAP	2016	0.4 km from the Order Limits
Sanicle (*Sanicula europaea*)	ENRL-NT	2016	0.4 km from the Order Limits
Wall bedstraw (*Galium parisiense*)	ENRL-VU, Notts BAP	2015	0.4 km from the Order Limits
Corn marigold (*Glebionis segetum*)	ENRL-VU, Notts BAP	2019	0.5 km from the Order Limits
Divided sedge (*Carex divisa*)	GBRL- VU, S41, ERY BAP, Lincs BAP	2003 but within Humber SSSI citation	0.5 km from the Order Limits
Burnt orchid (*Neotinea ustulata*)	GBRL-END, ENRL-END, S41	2019	0.7 km from the Order Limits
Hoary cinquefoil (*Potentilla argentea*)	ENRL-NT, Notts BAP	2015	0.7 km from the Order Limits
Crosswort (*Cruciata laevipes*)	ENRL-NT	2017	0.8 km from the Order Limits
Smooth cat's ear (*Hypochaeris glabra*)	ENRL-VU, Notts BAP	2020	0.8 km from the Order Limits
Ragged robin (*Silene flos-cuculi*)	ENRL-NT	2017	0.8 km from the Order Limits
Tormentil (*Potentilla erecta*)	ENRL-NT	2017	0.8 km from the Order Limits
Water violet (*Hottonia palustris*)	GBRL-VU, ENRL-VU, County (Notts), Notts BAP	2019	0.8 km from the Order Limits

Species	Legal protection/ consideration	Year of record	Location of species
Brackish water-crowfoot (*Ranunculus baudotii*)	County (Notts), Notts BAP	1995 but within Chesterfield Canal SSSI citation	0.9 km from the Order Limits
Common valerian (*Valeriana officinalis*)	ENRL-NT	2015	0.9 km from the Order Limits
Field garlic (*Allium oleraceum*)	Notts BAP	2016	0.9 km from the Order Limits
Pennyroyal (*Mentha pulegium*)	GBRL-NT, ENRL-CR, S41, Lincs BAP, Notts BAP	2019	0.9 km from the Order Limits
Sand leek (*Allium scorodoprasum*)	County (Notts), Notts BAP	2016	1 km from the Order Limits
Frogbit (*Hydrocharis morsus-ranae*)	GBRL-VU, ENRL-VU, Notts BAP	2017	1.2 km from the Order Limits
Goldenrod (*Solidago virgaurea*)	GBRL-VU, ENRL-VU, Notts BAP	2021	1.3 km from the Order Limits
White waterlily (*Nymphaea alba*)	County (Notts), Notts BAP	2015	1.3 km from the Order Limits
Cornflower (*Centaurea cyanus*)	S41, ERY BAP, Notts BAP	2019	1.5 km from the Order Limits
Elecampane (*Inula helenium*)	GBRL-VU, ENRL-NT	2019	1.5 km from the Order Limits
Hybrid water-cress (*Nasturtium* x *sterile*)	County (Notts)	2016	1.5 km from the Order Limits
Chicory (*Cichorium intybus*)	ENRL-VU	2018	1.6 km from the Order Limits
Large flowered hemp nettle (*Galeopsis speciosa*)	GBRL-END, ENRL-VU, Notts BAP	2019	1.6 km from the Order Limits
Short-leaved water starwort (*Callitriche truncata*)	Notts BAP	2016	1.7 km from the Order Limits
Tasteless water-pepper (*Persicaria mitis*)	GBRL-VU, ENRL-VU, Notts BAP	2016	1.7 km from the Order Limits
Hedge bindweed subspecies (*Calystegia sepium* subsp. *roseata*)	County (Notts)	2015	1.8 km from the Order Limits
Round fruited rush (*Juncus compressus*)	GBRL-VU, ENRL-VU	2019	1.8 km from the Order Limits

Species	Legal protection/ consideration	Year of record	Location of species
Stingless nettle (*Urtica dioica* subsp. *galeopsifolia*)	County scarce (Notts), Notts BAP	2019	1.8 km from the Order Limits
Annual beard grass (*Polypogon monspeliensis*)	Notts BAP	2019	1.9 km from the Order Limits

Invasive Non-Native Plant Species

4.2.21 Invasive Non-native Plant Species recorded within 2 km of the Order Limits are listed in Table 4.7 and are shown in **Figure A8.3.2 Records of Protected/Notable Plants & Invasive Non-native Plant Species** (Annex A). Invasive Non-native Plant Species are species listed under Schedule 9 of the Wildlife and Countryside Act 1981 (HM Government, 1981) and/or as species of European Union (EU) concern listed in Regulation (EU) 1143/2014 on the prevention and management of the introduction and spread of invasive alien species (The European Parliament and the Council of the European Union, 2014).

4.2.22 Abbreviations of the legal considerations denoted in Table 4.7 and later in Table 4.10 comprise the following:

- WCA 1981 (Schedule 9) – Indicates species is listed under Schedule 9 of the WCA 1981 (HM Government, 1981); and
- IASR (2014) - Indicates species is listed in Regulation (EU) 1143/2014 on the prevention and management of the introduction and spread of invasive alien species (The European Parliament and the Council of the European Union, 2014).

Table 4.7 – Invasive Non-Native Plant Species records within 2 km of the Order Limits

Species	Legal consideration	Year of record	Location of species
Himalayan balsam (*Impatiens glandulifera*)	WCA 1981 (Schedule 9), IASR (2014)	2017	Within the Order Limits
Montbretia (*Crocosmia pottsii* x *aurea* = *C.* x *crocosmiiflora*)	WCA 1981 (Schedule 9)	2020	Within the Order Limits
New Zealand pigmyweed (*Crassula helmsii*)	WCA 1981 (Schedule 9), IASR (2014)	2016	Within the Order Limits
Parrot's feather (*Myriophyllum aquaticum*)	WCA 1981 (Schedule 9), IASR (2014)	2016	Within the Order Limits
Pontic rhododendron (*Rhododendron ponticum*)	WCA 1981 (Schedule 9)	2020	Within the Order Limits

Species	Legal consideration	Year of record	Location of species
Water fern (*Azolla filiculoides*)	WCA 1981 (Schedule 9)	2015	0.07 km from the Order Limits
Nuttall's waterweed (*Elodea nuttallii)*	WCA 1981 (Schedule 9), IASR (2014)	2019	0.12 km from the Order Limits
Canadian waterweed (*Elodea canadensis*)	WCA 1981 (Schedule 9)	2016	0.26 km from the Order Limits
Variegated yellow archangel (*Lamiastrum galeobdolon* subsp. *argentatum*)	WCA 1981 (Schedule 9)	2016	0.28 km from the Order Limits
Japanese knotweed (*Reynoutria japonica*)	WCA 1981 (Schedule 9), IASR (2014)	2016	0.32 km from the Order Limits
Giant hogweed (*Heracleum mantegazzianum*)	WCA 1981 (Schedule 9), IASR (2014)	2022	0.5 km from the Order Limits
Japanese rose (*Rosa rugosa)*	WCA 1981 (Schedule 9)	2016	1.58 km from the Order Limits
Wall cotoneaster (*Cotoneaster horizontalis*)	WCA 1981 (Schedule 9)	2015	1.89 km from the Order Limits

4.3 Field Survey Results

Phase 1 Habitat Survey

4.3.1 The survey area contains a variety of habitats typical of intensively farmed rural landscapes, dominated by arable land with associated improved and poor semi-improved grassland. Additional habitats include woodland, scrub, watercourses and ponds, together with tall ruderal vegetation and areas of ephemeral and short-perennial vegetation associated with disturbance. Field boundaries comprise fences, hedgerows and ditches, with some hedgerows qualifying as species-rich hedgerows based on professional judgement, taking into account the diversity of native woody species and overall botanical interest, in line with standard Phase 1 habitat survey guidance (Joint Nature Conservation Committee , 2010). Habitat distribution and composition vary within the survey area and are described by Phase 1 habitat category and Route Section, where appropriate. The extents of each habitat type within the Order Limits and the survey area are shown in Table 4.8 and mapped in **Figure A8.3.1 Phase 1 Habitat Survey Map** (Annex A).

Woodland and Scrub.

A1.1.1 Broadleaved woodland – semi-natural

Route Section A

4.3.2 Semi-natural broadleaved woodland is most extensive within the survey area in Route Section A. It occurs as small blocks along field boundaries, corners, roads and ditches, with some larger, more established woodland at Jillywood Lane, Socken Wood, Brantingham Dale, and Brantingham Wood.

4.3.3 Woodland at Jillywood Lane, which forms part of Jillywood Lane LWS, comprises a linear semi-natural woodland dominated by oak (*Quercus* sp.) and ash (*Fraxinus excelsior*), with locally frequent holly (*Ilex aquifolium*), and occasional elder (*Sambucus nigra*) and field maple (*Acer campestre*). The shrub layer is dominated by hazel (*Corylus avellana*) and hawthorn (*Crataegus monogyna*). The ground flora is diverse and includes several ancient woodland indicator species, notably ramsons (*Allium ursinum*), bluebell, dog's mercury, primrose, and wood anemone. Although areas of sycamore (*Acer pseudoplatanus*) and wild cherry (*Prunus avium*) plantation are present, the persistence of ancient woodland indicators, together with a review of historical mapping and proximity to designated ancient woodland, suggests that this woodland has characteristics of ancient woodland (see Table 4.4).

4.3.4 Socken Wood bisects the survey area and comprises a mature semi-natural broadleaved woodland dominated by ash and sycamore, with occasional wych elm (*Ulmus glabra*). The shrub layer is sparse, consisting mainly of hawthorn with occasional elder, holly and dog rose (*Rosa canina*). The field layer is moderately diverse and includes bearded couch (*Elymus caninus*), giant fescue (*Schedonorus giganteus*), dog's mercury, red campion (*Silene dioica*), herb-Robert (*Geranium robertianum*) and bluebell. A National Vegetation Classification (NVC) assessment indicates affinity with W8 *Fraxinus excelsior–Acer campestre–Mercurialis perennis* woodland. See **Application Document 6.8.A4 Appendix 8.4 Botanical Report**. Historical mapping suggests Socken Wood has characteristics of ancient woodland, despite the absence of formal designation (see Table 4.4).

4.3.5 Within Brantingham Dale, semi-natural woodland occupies steep valley slopes and transitions into calcareous grassland; much of this woodland lies within Brantingham Dale SSSI, in the northeastern sections of the woodland. The canopy is ash-dominated with frequent silver birch (*Betula pendula*). Ground flora is generally sparse on exposed slopes, with areas of bare ground and locally abundant dog's mercury, false brome (*Brachypodium sylvaticum*), bramble (*Rubus fruticosus* agg.), and nettle (*Urtica dioica*). More sheltered valley sections support a better-developed shrub layer and a notable bryophyte and lichen assemblage; associated species include wild strawberry, wood sedge (*Carex sylvatica*), wood avens (*Geum urbanum*) and bluebell.

4.3.6 At the southwestern end of Brantingham Dale, semi-natural woodland is dominated by mature beech (*Fagus sylvatica*), with frequent sycamore and occasional oak. The shrub layer is scattered and includes holly, hawthorn, wild privet (*Ligustrum vulgare*) and yew (*Taxus baccata*), while the ground flora is sparse and dominated by ivy (*Hedera helix*), with occasional dog's mercury, lesser celandine (*Ficaria verna*), lords-and-ladies (*Arum maculatum*), dog violet (*Viola* sp.) and false brome. An NVC assessment indicates affinity with W12 *Fagus sylvatica–Mercurialis perennis* woodland. See **Application Document 6.8.A4 Appendix 8.4 Botanical Report**.

4.3.7 Additional woodland at Brantingham (small wood adjacent to Ellerker Road)[7] comprises mature and semi-mature pedunculate oak, sycamore and horse chestnut (*Aesculus hippocastanum*), with hawthorn and elder in the shrub layer. Ground flora is species-poor and dominated by nettle and false oat-grass (*Arrhenatherum elatius*). Although ancient woodland indicator plants were not recorded, historical mapping suggests that this woodland has characteristics of ancient woodland (see Table 4.4).

4.3.8 Elsewhere in Route Section A, smaller semi-natural woodland pockets are typically young to semi-mature and dominated by ash or sycamore, with dense hawthorn shrub layers and sparse ground flora commonly including cow parsley (*Anthriscus sylvestris*), nettles and cleavers (*Galium aparine*).

Route Section B

4.3.9 Semi-natural woodland is limited and fragmented, typically occurring as narrow strips along road verges, tracks, and field boundaries. Canopy species include ash, sycamore, willow (*Salix* spp.), elm (*Ulmus* sp.), beech, oak, and field maple, with occasional lime (*Tilia* sp.). Shrub layers are variable but often bramble-dominated, while the field layer is typically species-poor due to edge effects and nutrient enrichment.

Route Section C

4.3.10 Woodland is relatively limited within Route Section C. It includes a small block of woodland north of Bewcarrs Drain, dominated by oak, crab apple (*Malus sylvestris*), field maple, and elder. Further linear woodland features are present: including one adjacent to the River Torne, comprising semi-mature coppiced hazel with occasional holly, hawthorn and oak, and another between the A18 and South Engine Drain. The latter forms a broad strip of woodland with three distinct age classes, dominated by willow, sycamore, ash and hawthorn.

Route Section D

4.3.11 Small, fragmented woodland blocks occur along field edges, roads, railways and watercourses. The canopy is dominated by oak and ash, with frequent sycamore and willow. Shrub layers are dense, dominated by hawthorn with frequent blackthorn, (*Prunus spinosa*), elder, and dog rose. The ground flora is largely species-poor and indicative of secondary woodland establishment. One small woodland block northwest of Owston Ferry does contain dog's mercury within its ground flora, which can be considered an ancient woodland indicator.

4.3.12 South Moor Covert and Fishpond Plantation LWS falls within the survey area, a small portion of which is inside the Order Limits. This woodland represents self-seeded, secondary woodland that has developed over approximately the last 100 years, following the abandonment of former active flax ponds. The woodland supports a mixed age structure comprising mature, semi-mature trees and saplings, with standing and fallen deadwood present throughout. Tree species recorded within this woodland include oak, ash, wild cherry, hawthorn, sycamore, elder, horse chestnut and blackthorn. The field layer is comparatively well developed and includes garlic mustard (*Alliaria petiolata*), ramsons, wood avens, lords-and-ladies, and lesser celandine.

4.3.13 Wet willow woodland is present within Sedge Hole Close LWS; a small portion of which lies inside the Order Limits. The canopy is dominated by goat willow (*Salix caprea*) and ash, with dog's mercury present in the ground flora, which can be considered an ancient woodland indicator.

4.3.14 Two small woodland areas lie within the study area of Route Section D, the edges of which encroach into the Order Limits; Dixon Wood and South of Dog Horse Plantation. Although no ancient woodland indicator plants were recorded during the Phase 1 habitat survey, historical mapping suggests these woodlands have characteristics of ancient woodland (see Table 4.4).

Route Section E

4.3.15 Within the Order Limits, woodland is limited and fragmented, occurring principally along drains, field edges and watercourses. The canopy is dominated by semi-mature ash and oak, with silver birch and occasional beech. The shrub layer comprises hawthorn, blackthorn, bramble, and elder, while the ground flora is generally species-poor.

4.3.16 Two woodlands recorded on the Ancient Woodland Inventory (Natural England, 2026) are present within the study area in Route Section E. Treswell Wood, lies just within/adjacent to the Order Limits (only with the BNG Opportunity Area of the Order Limits), while a further area of ancient semi-natural woodland forming part of Tongs and Dogholes Woods LWS is located approximately 14 m west of the Order Limits. Neither woodland was surveyed as part of the Phase 1 habitat survey.

4.3.17 An additional woodland area (named by the Project as Wood Farm) which historical mapping suggests has characteristics of ancient woodland (see Table 4.4) is located within the Order Limits to the east of Wood Farm. Access was not possible due to dense scrub vegetation; however, mature oak, ash, willow, silver birch, and beech were recorded from the woodland edge.

4.3.18 Semi-natural broadleaved woodland associated with Caddow Wood (Southern Assarts) LWS is also present within the survey area, although it lies outside the Order Limits. The canopy comprises ash, oak and hazel. A dense scrub layer of hawthorn, blackthorn and bramble restricted access, preventing further survey or observations of ground flora.

4.3.19 Saundby Park Wood lies adjacent to the Order Limits in Route Section E. Targeted botanical surveys recorded ancient woodland plants, which together with evidence from historical mapping, suggests that this woodland has characteristics of ancient woodland (see Table 4.4).

Route Section F

4.3.20 Route Section F contains only two areas of semi-natural broadleaved woodland within the survey area. Pigeon Field Wood is a linear woodland strip, most of which lies outside the Order Limits along a watercourse. The woodland occupies the corner of an arable field and comprises semi-mature ash, with willow and occasional oak. The ground layer is sparse, dominated by nettles and areas of bare ground, reflecting nutrient enrichment and limited structural complexity. Cartographic evidence, however, suggests that this woodland has characteristics of ancient woodland (see Table 4.4).

4.3.21 A second linear woodland is located just to the northwest of High Marnham substation; however, access was not possible at the time of survey, and its botanical composition is currently unknown.

Conservation importance

4.3.22 Most of the semi-natural broadleaved woodland within the survey area is of **Local** importance, reflecting its semi-natural character, moderate species richness, and contribution to habitat connectivity, but limited extent or age. Lowland mixed deciduous woodland is an HPI and is up to **County** importance. Woodland parcels which the Project has identified as having characteristics of ancient woodland are considered to be of **National** importance.

A1.1.2 Broadleaved woodland – plantation

4.3.23 Plantation broadleaved woodland is a minor component of the survey area and is largely concentrated within Route Sections A and E.

4.3.24 Bilkshill Plantation, located within Brantingham Dale (Route Section A), comprises plantations of varying age, dominated by beech, ash, sycamore, cherry, silver birch, pedunculate oak, holly and hornbeam (*Carpinus betulus*), with localised Norway spruce (*Picea abies*) and European larch (*Larix decidua*). Shrub layers are sparse, deadwood is limited and the ground flora is heavily disturbed. Despite this, isolated ancient woodland indicator species such as dog's mercury persist locally. Large numbers of yellow bird's-nest (*Hypopitys monotropa*) were recorded here. This species is listed as Vulnerable on the New Vascular Plant Red List for Great Britain 2025 (Stroh, 2025) and Endangered on the Vascular Plant Red List for England 2014 (Stroh P, 2014), and is also listed as a Species of Principal Importance under s41 of the NERC Act 2006 (HM Government, 2006).

4.3.25 Other plantation woodlands within the survey area include young and semi-mature plantations, a traditional orchard (a Priority Habitat) in Route Section A, and ornamental woodland associated with domestic properties. Some of the more mature plantations show signs of historic thinning and regeneration.

Conservation importance

4.3.26 Bilkshill Plantation is predominantly young to semi-mature plantation woodland. The site is considered to be of **County** importance, reflecting its young to semi-mature age, simple structure, and locally notable botanical interest due to the presence of yellow bird's-nest.

4.3.27 The traditional orchard is recorded as an HPI and retains rows of fruit trees with a grassland understorey. It is considered to be of **County** importance.

4.3.28 The remaining plantation broadleaved woodlands are considered to be of **Site** importance, reflecting their limited extent, simple structure, and largely managed or disturbed ground flora, with limited botanical interest.

A1.2.2 Coniferous woodland – plantation

4.3.29 Coniferous plantation woodland occurs in a few locations throughout the survey area, comprising small plantation blocks, potential commercial plantation and planted landscape woodland associated with a former golf course. Stands are generally dominated by non-native conifer species including Norway spruce, Scots pine (*Pinus sylvestris*), cedar (*Cedrus* sp.) and Douglas fir (*Pseudotsuga menziesii*), with occasional monkey puzzle (*Araucaria araucana*). Canopies are typically dense and closely planted, resulting in little or no shrub or ground flora development. This habitat type is of **Site** importance.

A1.3.1 Mixed woodland – semi-natural

4.3.30 Discrete blocks of mixed semi-natural woodland occur within the survey area, comprising combinations of broadleaved and coniferous species, such as ash, sycamore, oak, Scots pine, and Douglas fir. These blocks are generally small, structurally simple, and contain minimal deadwood.

4.3.31 The mixed woodland within the survey area is considered to be of **Site** importance, reflecting its small size, limited structural diversity, and the absence of rare or protected species or ancient woodland indicators.

A1.3.2 Mixed woodland – plantation

4.3.32 Several small patches of mixed plantation woodland occur within the survey area, predominantly young plantings, including landscaped areas on a former golf course. A larger mixed plantation woodland block is present to the southeast of Ellerker (Route Section E).

4.3.33 Within Brantingham Dale (Route Section A), there are two further areas of mixed plantation woodland. Canopy species include Norway spruce, European larch, beech, sycamore, ash, and scattered silver birch, with two age classes present. Shrub layers are sparse, and the ground flora is limited and disturbed, although isolated ancient woodland indicators such as dog's mercury are locally present. Yellow bird's-nest was surveyed for in these woodland areas but was not recorded. This section of Bilkshill Plantation forms part of the Brantingham Dale Historic LWS.

Conservation importance

4.3.34 The mixed plantation woodland within Brantingham Dale is of **County** importance, reflecting its semi-mature to mature age, structural diversity, presence of ancient woodland indicator species and its inclusion within an LWS. Other mixed plantation woodland is of **Site** importance, reflecting its small size, limited structural diversity, and the absence of rare or protected species or ancient woodland indicators.

A2.1 Scrub – dense/continuous

4.3.35 Dense/continuous scrub is present throughout the survey area, along transportation routes, field margins and watercourses. Dominant species include hawthorn, grey willow (*Salix cinerea*), blackthorn and bramble. Most stands are young to semi-mature, species-poor and associated with nutrient-enriched soils.

4.3.36 Dense/continuous scrub habitats within the survey area are of **Site** importance, reflecting their generally young to semi-mature age, dense structure, limited natural regeneration, and ruderal or nutrient-enriched ground flora.

A2.2 Scrub – scattered

4.3.37 Scattered scrub occurs in similar locations to dense scrub and tends to be associated with linear features and edge habitats. Species recorded comprise hawthorn, blackthorn, willow and bramble. Scattered scrub habitats are of **Site** importance.

A3.1 Broadleaved parkland/scattered trees

4.3.38 Scattered broadleaved trees and linear tree features occur throughout the survey area. Canopy structure varies from continuous lines along roads and watercourses to widely spaced individual or small groups of trees in gardens and farmyards. Species are predominantly native and dominated by oak and ash. Some of the recorded native trees are considered to be veteran. Two native black poplar (*Populus nigra* subsp. *betulifolia*)[8] trees, a Nottinghamshire BAP species (Nottinghamshire Local Biodiversity Action Group, 2020), were recorded adjacent to a watercourse on the boundary between Route Sections C and D, the closest pylon being 4AF128. The trees are located within the survey area but outside of the Order Limits. The Project is committed to retaining these trees, and no tree pruning or coppicing (inclusive of works within the RPAs) will occur as secured through the relevant commitment in **Application Document 7.3 Register of Environmental Actions and Commitments**. A further five specimens of hybrid black poplar (*Populus x canadensis*) were recorded within Route Section A, inside the Order Limits near pylon 4AF55. However, these are hybrid forms which are often used for ornamental planting, and not native black poplar.

Conservation importance

4.3.39 The majority of scattered broadleaved trees within the survey area are considered to be of **Site** importance, reflecting their limited extent, isolated occurrence, and typical ecological contribution to the landscape. Native black poplar is one of Britain's rarest native trees, with a small and declining population in the UK, and is considered to be of **County** importance. Veteran trees are considered to be of **National** importance, reflecting their irreplaceable ecological, historical, and cultural importance.

A3.3 Mixed parkland/scattered trees

4.3.40 Scattered mixed trees are present in a small number of locations, usually associated with domestic properties or planted on verges or amenity grassland. Species comprise a mixture of native and non-native species, including beech, oak, ash, horse chestnut, Leyland cypress, Douglas fir, and cypress (*Cupressus* sp.). This habitat type is of **Site** importance.

Grassland and Marsh

B1.2 Acid grassland – semi-improved

4.3.41 Semi-improved acid grassland is present at a single location within the survey area, at the former Keadby Ash Tip in Route Section C. This location is also recorded as lowland dry acid grassland HPI, and Open Mosaic Habitats on Previously Developed Land HPI.

4.3.42 Historic NVC surveys (AECOM, 2021) indicate that the wider Keadby Ash Tip supports species-rich early-successional acid grassland established on artificial substrates, with a diverse flora, including several notable plant species. The habitat is rare within National Character Area (NCA) 39 Humberhead Levels (NCA) (Natural England, 2026) and contributes to the ecological coherence and connectivity of acid grasslands within the wider landscape. The wider habitat complex is also notable for its size, botanical quality, and species assemblage.

[8] Native black poplar are one of Britain's rarest and most endangered native timber trees, with the population reported as being in serious decline

4.3.43 The acid grassland recorded within the survey area forms part of this wider Keadby Ash Tip habitat complex. However, the extent of acid grassland actually present within the Order Limits is limited, with much of the area mapped as priority habitat comprising actively used tracks. The habitat within the survey area is therefore considered to be of **Local** importance.B2.2 Neutral grassland – semi-improved

4.3.44 Semi-improved neutral grassland occurs within the survey area on slopes and plateau areas to the west of Brantingham Dale (Route Section A). Grassland is dominated by false oat-grass, cock's-foot (*Dactylis glomerata*) and fescues (*Festuca* sp.), with scattered forbs such as agrimony (*Agrimonia eupatoria*), self-heal (*Prunella vulgaris*), ragwort (*Senecio* sp.), creeping buttercup (*Ranunculus repens*), and hawkbit (*Leontodon* sp.). Mosses are locally abundant, and occasional bramble and hawthorn scrub occur. Grassland is largely unmanaged or lightly grazed, with variable sward height and moderate species richness. National Vegetation Classification surveys note the swards show strongest affinities with MG1 *Arrhenatherum elatius* grassland, with small areas of MG6 *Lolium perenne-Cynosurus cristatus* grassland on north-facing slopes.

4.3.45 These grasslands are considered of **Local** importance, reflecting their current semi-improved condition moderate botanical interest and contribution to ecological connectivity within the landscape. See **Application Document 6.8.A4 Appendix 8.4 Botanical Report**.

4.3.46 An area of semi-improved neutral grassland which forms part of Sedge Hole Close Wildlife Trust Reserve LWS is present in Route Section D. The sward is species-rich, comprising a diverse mix of grasses, forbs typical of lowland meadows, including primrose, cowslip (*Primula veris*), common knapweed (*Centaurea nigra*), ox-eye daisy (*Leucanthemum vulgare*), clovers (*Trifolium* spp.), and meadow buttercup (*Ranunculus acris*), with scattered rushes and sedges. This grassland is also recorded as Lowland Meadow HPI and is considered of **County** importance, reflecting its semi-natural character, high botanical diversity, and contribution to the wider LWS and Wildlife Trust Reserves network.

4.3.47 Elsewhere within the survey area, semi-improved neutral grassland occurs in a small number of fields and as linear strips along roads, tracks, and verges, including Dolegate Road, East Drayton LWS, a species rich roadside verge, in Route Section E. These swards are generally unmanaged or lightly managed, with moderate species richness, low scrub encroachment, and minimal bare ground. Grass species are dominated by perennial rye-grass (*Lolium perenne*), cock's-foot, false oat-grass, meadow foxtail (*Alopecurus pratensis),* and Yorkshire fog (*Holcus lanatus*). Herbaceous species are varied and include creeping buttercup, meadow buttercup, cow parsley, hogweed (*Heracleum sphondylium*), daisies (*Bellis* sp.), primrose, and St John's-wort (*Hypericum* sp.). Several areas of semi-improved neutral grassland are also associated with Keadby Ash Tip in Route Section C. These grasslands are considered of **Local** importance, reflecting their limited extent, semi-improved condition, management and moderate botanical interest.

B3.2 Calcareous grassland – semi-improved

4.3.48 Brantingham Dale SSSI is designated in part for its species-rich chalk grassland, and areas of the SSSI and associated lowland calcareous grassland HPI occur within the Order Limits. However, NVC survey of sampled grassland within these areas found that although species associated with calcareous grassland and base-rich conditions remain present locally, areas of the vegetation surveyed showed stronger affinities

with *Arrhenatherum elatius*–dominated MG1 false oat-grass grassland community than with the unimproved calcareous grassland described in the 1986 SSSI citation (Natural England, 1986). This is considered to reflect the development of a taller, rank sward under reduced grazing or other management. See **Application Document 6.8.A4 Appendix 8.4 Botanical Report**.

4.3.49 Outside the SSSI and HPI boundaries, but still within the Order Limits, a narrow linear strip of rank, ungrazed calcareous grassland is present along the sloping sides of a public pathway incised into the chalk bedrock. This stand is characterised by abundant field brome (*Bromopsis arvensis*), and constant glaucous sedge (*Carex flacca*) and the NVC surveys concluded it shows affinities with NVC CG3 *Bromus erectus* calcareous grassland. See **Application Document 6.8.A4 Appendix 8.4 Botanical Report**.

4.3.50 The discrete stand of calcareous grassland recorded outside Brantingham Dale SSSI is considered of **Local** importance, reflecting its limited extent, linear form and rank condition. Calcareous grassland within Brantingham Dale SSSI is considered of **National** importance in the context of if its contribution to the interest features of the SSSI. This is taken into account in the assessment of effects on the SSSI within **Application Document 6.8 Chapter 8 Ecology**.

B4 Improved grassland

4.3.51 Improved grassland occurs as grazed pasture and paddocks throughout the survey area. The sward is typically species-poor and grass-dominated, reflecting intensive grazing or frequent cutting, and is generally structurally uniform.

4.3.52 Perennial rye-grass and cock's-foot are consistently dominant, with a limited assemblage of common forbs. Sward height varies locally from very short (less than 5 cm) in heavily grazed paddocks to more tussocky grassland (up to *c*. 30 cm) where management has lapsed.

4.3.53 Evidence of grazing disturbance is common, including trampling and localised bare ground, particularly within horse paddocks. Overall, the habitat is of low botanical diversity and limited ecological interest and is of **Site** importance. One area initially recorded as improved grassland in Route Section C forms part of the River Torne LWS and is identified as good quality semi-improved HPI. A further survey will be carried out in 2026 during the optimal survey period. The results of these surveys will be reported separately and will be used to inform an updated assessment, which will be presented in an addendum report during examination.

B6 Poor semi-improved grassland

4.3.54 Poor semi-improved grassland occurs predominantly within Route Section A but is present throughout the survey area as narrow field margins, road verges, trackside strips and unmanaged paddocks. The swards are generally species-poor and grass-dominated, reflecting frequent mowing, trampling, nutrient enrichment, and the influence of adjacent arable land use. Sward height varies locally, ranging from short, recently mown or grazed grassland to more rank and tussocky vegetation where management is infrequent or absent. Bare ground is generally limited, although localised disturbance occurs along tracks and frequently used margins. Overall, this habitat is of low botanical diversity and limited structural complexity and is of **Site** importance. One area initially identified as poor semi-improved grassland forms part of Retford Gate Green LWS (Route Section E). This area will be subject to a further

survey in 2026 during the optimal survey period. The results of these surveys will be reported separately and will be used to inform an updated assessment, which will be presented in an addendum report during examination.

Tall herb and Fern

C3.1 Other tall herb and fern – tall ruderal

4.3.55 Tall ruderal vegetation occurs in linear and discrete areas throughout the survey area, typically associated with disturbed ground along field margins, roadsides, ditches and stream banks. The vegetation is dominated by common nettle, with frequent greater willowherb (*Epilobium hirsutum*), rosebay willowherb (*Chamerion angustifolium*), and thistle species (*Cirsium* spp.). Localised areas of bare ground are present, particularly on spoil bunds and along watercourse margins, with evidence of vehicle or trampling disturbance near farm access routes. This habitat is considered to be of **Site** importance, reflecting its ruderal character, limited botanical diversity, and association with disturbed ground and nutrient enrichment.

Swamp, Marginal and Inundation

F2.1 Marginal and inundation – marginal vegetation

4.3.56 A large depression resulting from former quarrying activity (Melwood Quarry) is present within Route Section D and holds standing water to varying depths. Marginal vegetation occurs around the edges of this waterbody and is dominated by common reed (*Phragmites australis*), with sparse grasses and occasional teasel (*Dipsacus fullonum*). Vegetation structure is simple and species diversity is low, reflecting the artificial origin of the feature and fluctuating water levels. Other discrete extents of marginal vegetation are present where narrow bands of floating sweet grass (*Glyceria fluitans*) are recorded adjacent to watercourses. This habitat is considered to be of **Site** importance, reflecting its limited extent and restricted botanical interest.

4.3.57 Reedbed HPI is mapped at one location immediately adjacent to the Order Limits in Route Section A. However, field survey carried out from adjacent land confirmed that the habitat present in this location comprises dense willow and bramble scrub, rather than reedbed vegetation.

Open Water

G1 Standing water

4.3.58 Standing water habitats occur throughout the survey area, comprising ponds, drains, and wet ditches. Several small ponds are present within the Order Limits; these are typically shallow, irregular in shape and associated with agricultural land use. Water quality is variable, with occasional turbidity and minor algal growth, and aquatic vegetation is sparse. The majority of ponds within the Order Limits do not clearly meet HPI criteria (e.g. high botanical diversity, presence of notable species, or clear natural origin) and are therefore considered to be of **Site** value, reflecting their small size, limited vegetation structure, and agricultural context. Only one pond within the Order Limits, located between pylons 4AF69 and 4AF70 in Route Section A, supports great crested newt, as confirmed by eDNA analysis. While the population size is unknown, as the pond provides habitat for a notable species it is considered to meet HPI criteria and is considered of **Local** importance in the context of the Order Limits.

4.3.59 Two larger fishing ponds immediately adjacent to the Order Limits in Route Section A form part of the Broomfleet Pits LWS, designated for their good-quality, rich-fen and nutrient-rich standing water habitats. The ponds are intensively managed for angling, with low botanical diversity, and limited aquatic or marginal habitat features of note. Although part of the LWS, the ecological value of the ponds themselves is considered **Local** importance, reflecting their limited nature conservation interest.

4.3.60 Drains and wet ditches are a frequent presence within the survey area and some, such as Paupers Drain in Route Section B, are LWS. They are typically 0.5 to 1 m wide at water level, with variable depth and fluctuating water levels, with some stretches partially or seasonally dry. Water quality is low to moderate, sometimes showing turbidity or minor algal growth, and vegetation comprises common aquatic and emergent species such as duckweed (*Lemna* spp.), reedmace (*Typha latifolia*), floating sweet grass, and hemlock water dropwort (*Oenanthe crocata*). Some drains are mown or dredged, and shading varies along their length. These linear wet habitats are considered of **Site - Local** importance, reflecting their modified, managed nature, limited botanical diversity, and dominance by common species.

4.3.61 The Chesterfield Canal SSSI is of **National** importance, reflecting its statutory designation.

4.3.62 The Phase 1 habitat survey concentrated on terrestrial habitats and plant species, and emergent vegetation along riparian corridors where access was possible. See **Application Document 6.8.A10 Appendix 8.10 Aquatic Ecology Report** for further information on aquatic macrophyte surveys.

G2 Running water

4.3.63 Small flowing watercourses are present throughout the survey area, occurring most frequently in Route Sections A to E. These comprise a mix of relatively natural streams and becks with semi-natural margins, alongside heavily managed field drainage channels. The natural streams and becks are considered of **Local** importance, reflecting their role in maintaining ecological connectivity and supporting native plant communities. In contrast**,** modified field drains are considered of **Site** importance**,** reflecting their simplified structure, limited botanical diversity and ongoing management.

4.3.64 Larger semi-natural rivers, including the River Idle (on the boundary of Route Section D and E) and River Torne (in Route Section C and D)**,** support marginal and emergent vegetation, and provide important habitat for aquatic and riparian flora and invertebrates. These rivers are also considered of **Local** importance, reflecting their semi-natural character and contribution to ecological connectivity.

4.3.65 Heavily managed drains, such as Hatfield Waste Drain LWS (Route Section C and D), South Engine Drain LWS (Route Section C), Paupers Drain LWS (Route Section B), and the Warping Drain Corridor LWS (Route Section D), are typically wide with steep banks and minimal in-channel vegetation. Water quality is influenced by agricultural runoff, and these watercourses are frequently turbid. These drains are considered of **Site** importance, reflecting their modified character and limited ecological diversity.

4.3.66 The River Ouse, forming part of the Humber Estuary SAC, Ramsar, and SSSI, is of **International** importance due to its international designations.

Coastland

H1.1 Intertidal mud/sand

4.3.67 Narrow strips of intertidal mud and sand occur along the River Ouse, within the Humber Estuary SAC, SSSI, and Ramsar site, and Mudflats HPI. These areas could not be safely accessed for detailed survey; however, they are considered of **International** importance, reflecting their statutory designations, ecological importance for estuarine and intertidal species, and contribution to internationally significant mudflat and sandflat habitats.

H2.6 Saltmarsh – dense/continuous

4.3.68 Saltmarsh occurs along the River Ouse, within the Humber Estuary SAC, SSSI, Ramsar site, and Coast Saltmarsh HPI. The habitat consists predominantly of low-lying saltmarsh flats dominated by grasses, with occasional tussocks and scattered patches of dock (*Rumex* sp.). Sea aster (*Aster tripolium*) was recorded sporadically. These saltmarsh areas are considered of **International** importance, reflecting their statutory designations, ecological importance for estuarine habitats, and support for specialist flora and associated fauna.

Rock exposure and Waste

I2.2 Spoil

4.3.69 One area of spoil was recorded within the survey area (within the Order Limits in Route Section A), consisting of a large pile of concrete and brick. The substrate supports sparse vegetation, including scattered grasses and tall ruderal species. This habitat is considered of **Site** importance, reflecting its artificial origin and limited ecological diversity.

Miscellaneous

J1.1 Cultivated/disturbed land – arable

4.3.70 Arable land is the dominant habitat type within the survey area, comprising a range of crops including barley (*Hordeum vulgare*), wheat (*Triticum aestivum*), beans (*Phaseolus* sp.), and oilseed rape (*Brassica napus*), alongside areas planted with biofuel crops such as osier (*Salix viminalis*) and miscanthus (*Miscanthus* sp.). Fields were observed in a variety of management states, including freshly ploughed land, remnant stubble, and areas of grass grown for silage. This habitat is considered of **Site** importance, reflecting its highly modified agricultural character, low ecological diversity, and limited potential for supporting notable species.

Arable field margins

4.3.71 Arable field margins were recorded as narrow linear strips along some field edges, tracks and ditches, comprising poor semi-improved grassland and ruderal vegetation subject to regular agricultural disturbance. The sward was typically dominated by competitive grasses, species richness was generally low, and evidence of mowing, vehicle damage, and nutrient enrichment was frequent. Several margins comprised tall, dense swards with abundant dead material and a limited suite of common forbs, suggesting they may have been intentionally sown for gamebird cover, or pollen and

nectar provision. The margins lack the characteristic arable flora, botanical diversity and low-nutrient conditions of Arable Field Margin Priority Habitat and are considered of **Site** importance.

J1.2 Cultivated/disturbed land – amenity

4.3.72 Amenity grasslands are intensively managed and regularly mown swards, including lawns, playing fields, and parks. Within the survey area, these occur in a small number of locations, comprising private domestic gardens, a campsite, and a football pitch. These grasslands are considered of **Site** importance, reflecting their highly managed nature, low botanical diversity, and limited ecological interest.

J1.3 Cultivated/disturbed land – ephemeral/short perennial

4.3.73 Ephemeral and short perennial vegetation was recorded in a few areas within the survey area alongside trackways and amongst railway ballast. These areas were characterised by frequent exposed ground, disturbance and early successional vegetation and are considered of **Site** importance.

4.3.74 The largest extent of this habitat type occurs within the former Keadby Ash Tip (Route Section C), parts of which are also recorded as Open Mosaic Habitats on Previously Developed Land HPI. Historic NVC surveys (AECOM, 2021) indicate that the wider Keadby Ash Tip supports discontinuous vegetation dominated by annual and short-lived perennial species, with no closed sward, and grasses present only as scattered individuals. The wider habitat complex also supports notable plant species, including bearded fescue (*Festuca trachyphylla*), wall bedstraw, and smooth cat's-ear, National guidance (Joint Nature Conservation Committee, 2017) advises that artificial habitats should be assessed against the most appropriate semi-natural habitat criteria; in this case, the open mosaic habitat shows strong affinities with early successional acid grassland.

4.3.75 Within the survey area, much of the area mapped as Open Mosaic Habitat HPI comprises an existing actively used tracks. Although exposed and sparsely vegetated substrates can form a component of open mosaic habitat, the extent of qualifying habitat within the Order Limits is limited and is more restricted than indicated by the mapped HPI extent. This habitat is therefore considered to be of **Local** importance.

J1.4 Introduced shrub

4.3.76 Introduced shrubs are present at only a few locations within the survey area, associated with domestic properties. These comprise ornamental hedges including Leyland cypress and Portuguese laurel (*Prunus lusitanica*). This habitat is considered to be of **Site** importance, reflecting their highly managed, non-native character, limited extent, and minimal contribution to local biodiversity.

Native species-rich hedge/hedgerow with trees

4.3.77 Where a 30 m section of hedgerow comprises at least five woody species (or four in East Yorkshire and Lincolnshire) that are either native to the UK, or were introduced prior to 1500 CE and have become naturalised (archaeophytes), the hedgerow is classified as species-rich. Frequently recorded woody species within the survey area include hawthorn, blackthorn, elder, hazel, field maple, dogwood (*Cornus sanguinea*), and rose species (*Rosa* spp.).

4.3.78 Phase 1 habitat surveys identified hedgerows within the survey area that meet this definition and are *potentially* Important under The Hedgerows Regulations 1997 (HM Government, 1997). These hedgerows will undergo further surveys and assessments to inform their status. Some hedgerows have been confirmed as being Important hedgerows as enough information was known and/or they met other criteria for being Important.

4.3.79 Species-rich hedgerows are recognised as a HPI under s41 of the NERC Act 2006 (HM Government, 2006), and are also listed as a UK BAP habitat. Accordingly, these hedgerows are considered to be of **County** importance**,** reflecting their ecological importance, species diversity, and contribution to habitat connectivity across the landscape.

Native species-poor hedge/hedgerow with trees

4.3.80 Hedgerows are classified as species-poor where fewer than five woody species (or fewer than four in East Yorkshire and Lincolnshire) native to the UK or archaeophytes occur within a 30 m section. Within the survey area, these hedgerows are generally limited and fragmented, with low botanical diversity and simple structure. Although not considered Important under The Hedgerows Regulations 1997 (HM Government, 1997), given their extent, structural integrity, and status as HPI, these species-poor hedgerows are considered of **County** importance.

Other Miscellaneous Habitats

4.3.81 The Phase 1 habitat survey also recorded other miscellaneous habitats such as buildings, bare ground and hardstanding, and linear habitats such as walls, fences and dry ditches. Whilst these habitats do not contribute to the ecological value of an area they have been included, where present, for completeness as part of the Phase 1 habitat survey. These habitats are of **Site** importance.

Habitat Area

Table 4.8 – Summary of habitats within the survey area and importance

Habitat type	Phase 1 habitat survey code	Importance	Area/ length (Order Limits)	Percentage contribution to Order Limits (area only)	Area/ length (survey area)	Percentage contribution to survey area (area only)
Broadleaved woodland – semi-natural	A1.1.1	National, County and Local	8.2 ha	0.52%	45.94 ha	1.16%
Broadleaved woodland – plantation[9]	A1.1.2	County and Site	4.28 ha	0.27%	11.77 ha	0.30%
Coniferous woodland – plantation	A1.2.2	Site	0.82 ha	0.05%	1.10 ha	0.03%
Mixed woodland – semi-natural	A.1.3.1	Site	0.01 ha	0.001%	1.00 ha	0.03%
Mixed woodland – plantation	A1.3.2	County and Site	4.21 ha	0.27%	9.86 ha	0.25%
Scrub – dense/continuous	A2.1	Site	10.74 ha	0.68%	36.50 ha	0.92%
Scrub – scattered	A2.2	Site	1.02 ha/0.79 km	0.07%	2.12 ha/1.93 km	0.05%
Broadleaved parkland/scattered trees	A3.1	National, County and Site	0.07 ha/4.88 km	0.005%	0.89/13.84 km	0.02%
Coniferous parkland/scattered trees	A3.2	Site	0.04 km	-	0.14 km	-
Mixed parkland/scattered trees	A3.3	Site	0.15 ha/0.11 km	0.009%	1.71 ha/0.74 km	0.04%
Acid grassland – semi-improved	B1.2	Local	0.95 ha	0.06%	8.00 ha	0.20%

[9] Note this habitat type includes Traditional Orchards as this habitat was not assigned a separate Phase 1 habitat code.

Habitat type	Phase 1 habitat survey code	Importance	Area/ length (Order Limits)	Percentage contribution to Order Limits (area only)	Area/ length (survey area)	Percentage contribution to survey area (area only)
Neutral grassland – semi-improved	B2.2	County and Local	9.33 ha	0.59%	22.51 ha	0.57%
Calcareous grassland – semi-improved	B3.2	National (within Brantingham SSSI only) and Local	1.16 ha	0.07%	2.60 ha	0.07%
Improved grassland	B4	Site	100.38 ha	6.38%	254.58 ha	6.41%
Poor semi-improved grassland	B6	Site	41.25 ha	2.62%	100.35 ha	2.53%
Other tall herb and ruderal	C3.1	Site	0.98 ha	0.06%	3.63 ha	0.09%
Marginal and inundation – marginal vegetation	F2	Site	0.113 ha	0.007%	0.76 ha	0.02%
Standing water	G1	National, Local and Site	4.96 ha/17.72 km	0.32%	25.96 ha/56.58 km	0.65%
Running water	G2	International, Local and Site	10.33 ha/12.59 km	0.66%	32.33 ha/44.34 km	0.81%
Intertidal – mud/sand	H1.1	International	0.38 ha	0.02%	0.73 ha	0.02%
Saltmarsh – dense/continuous	H2.6	International	1.51 ha	0.10%	3.16 ha	0.08%
Spoil	I2	Site	0.013 ha	0.001%	0.20 ha	0.005%
Cultivated/disturbed land – arable	J1.1	Site	1,293.66 ha	82.22%	3,026.06 ha	76.22%
Cultivated/disturbed land – amenity	J1.2	Site	0.95 ha	0.06%	19.85 ha	0.50%
Cultivated/disturbed land – ephemeral/short perennial	J1.3	Site	9.19 ha	0.58%	18.34 ha	0.46%

Habitat type	Phase 1 habitat survey code	Importance	Area/ length (Order Limits)	Percentage contribution to Order Limits (area only)	Area/ length (survey area)	Percentage contribution to survey area (area only)
Introduced shrub	J1.4	Site	0.005 ha	0.000%	0.04 ha	0.001%
Intact hedge – native species-rich	J2.1.1	County	4.03 km	-	11.39 km	-
Intact hedge – species-poor	J2.1.2	County	40.17 km	-	94.07 km	-
Defunct hedge – species-poor	J2.2.2	County	4.83 km	-	9.66 km	-
Hedge with trees – native species-rich	J2.3.1	County	5.75 km	-	15.83 km	-
Hedge with trees – species-poor	J2.3.2	County	13.97 km	-	41.20 km	-
Wall	J2.5	Site	0.002 ha	0.000%	0.002 ha/0.03 km	0.000%
Fence	J2.4	Site	0.89 km	-	1.68 km	-
Dry ditch	J2.6	Site	0.27 ha/34.53 km	0.17%	1.22 ha/78.29 km	0.03%
Earth bank	J2.8	Site	-	-	0.006 ha	0.000%
Buildings	J3.6	Site	0.14 ha	0.009%	18.00 ha	0.45%
Bare ground	J4	Site	9.55 ha	0.61%	13.62 ha	0.34%
Other habitat	J5	Site	0.97 ha	0.061%	6.41 ha	0.16%
Hardstanding	N/A	Site	56.60 ha	3.60%	117.47 ha	2.96%
The total area used for the percentage contribution calculations was 1,573.40 ha for the Order Limits and 3,970.16 ha for the survey area.						

Incidental Records

4.3.82 Incidental records of protected or notable plant species recorded during field surveys are included in Table 4.9 and shown in **Figure A8.3.2 Protected/Notable plants and Invasive Non-Native Plant Species**.

Table 4.9 – Incidental records of protected/notable plants within the survey area

Species	Legal Protection/ consideration	Location
Black poplar (*Populus nigra* subsp. *betulifolia*)	Notts BAP	North of Belton on the boundary between Route Section C and D
Bluebell	WCA 1981 Schedule 8	Jillywood Lane LWS, Socken Wood, Brantingham Dale SSSI (Route Section A)
Burnet-saxifrage (*Pimpinella saxifraga)*	GBRL-NT	Brantingham Dale SSSI (Route Section A)
Common restharrow (*Ononis repens*)	GBRL-VU	Brantingham (Route Section A)
Giant bellflower (*Campanula latifolia*)	GBRL-VU	Socken Wood (Route Section A)
Harebell (*Campanula rotundifolia*)	GBRL-VU, ENRL-NT	Brantingham (Route Section A)
Salad burnet (*Poterium sanguisorba*)	GBRL-VU	Brantingham (Route Section A)
Water violet	GBRL-VU, ENRL-VU, County (Notts), Notts BAP	Drain adjacent to Carr Lane (Route Section B)
Wild strawberry	ENRL-NT	Brantingham Dale SSSI (Route Section A)
Wild thyme (*Thymus drucei)*	GBRL-NT	Brantingham Dale SSSI (Route Section A)
Yellow bird's-nest	GBRL-VU, ENRL-EN, S28	Bilkshill Plantation (Route Section A)

4.3.83 **Application Document 6.8.A4 Appendix 8.4 Botanical Report** describes specific surveys undertaken for yellow bird's-nest.

Invasive Non-Native Plant Species

4.3.84 Incidental records of INNPS from terrestrial and aquatic field surveys are provided in Table 4.10 and shown in **Figure A8.3.2 Protected/notable plants and Invasive Non-Native Plant Species**.

Table 4.10 – Incidental records of INNPS within the survey area

Species	Legal Protection/ Consideration	Location
Japanese knotweed	WCA9, IASR	Within the Order Limits to the south of Haxey (Route Section D) and northeast of Sturton-le-Steeple (Route Section E)
Giant knotweed (*Reynoutia sachalinensis*)	WCA9, IASR	Within the Order Limits to the west of Treswell (Route Section E)
Himalayan balsam	WCA9, IASR	Within the Order Limits to the northeast of Darlton and southwest of Beckingham (Route Section E). Within the Order Limits in Mill Beck (Route Section A), Wheatley Beck (Route Section E) and East Drayton watercourse (Route Section E).
Montbretia	WCA9	Within the Order Limits to the northwest of Brantingham (Route Section A)
Nuttall's waterweed	WCA9, IASR	Within the Order Limits in Mill Beck (Route Section A), Adlington Fleet Drain (Route Section B), Paupers Drain (Route Section B), an un-named drain (Route Section B), Folly Drain (Route Section C), an un-named drain (Route Section D) and East Drayton watercourse (Route Section E).
Variegated yellow archangel	WCA9	10 m from the Order Limits east of the A164 (Route Section A)

5. Summary and Evaluation

5.1 Desk-based Study

5.1.1 The desk-based study identifies statutory designated sites for nature conservation within the study area, including the Humber Estuary SAC, Ramsar, and SSSI, which are designated for extensive estuarine and coastal habitats. Additional SSSIs within the study area comprise Brantingham Dale SSSI, Chesterfield Canal SSSI, Crowle Borrow Pits SSSI, and Treswell Wood SSSI, designated for species-rich calcareous grassland, notable aquatic plant communities, a range of habitats including acid grassland, woodland, and fen, marsh and swamp, and woodland respectively.

5.1.2 Non-statutory designated sites within the study area are largely associated with wetland corridors (e.g. drains, canals and rivers), as well as semi-natural grassland and woodland habitats, and frequently support diverse aquatic and marginal flora.

5.1.3 Two areas of designated ancient woodland and eight areas of Project identified Woodland with Characteristics of Ancient Woodland are present within the study area. One area of designated ancient woodland (Treswell Wood) is located just within the Order Limits for the BNG Opportunity Area only, the other (Tongs and Dogholes Wood), is 14 m from the Order Limits. Two areas of Woodland with Characteristics of Ancient Woodland will be oversailed by the proposed overhead line and will include loss of trees. Six areas will be affected managed, or potentially affected for very small areas of the edge of the woodland, or only if changes in the design occurs as a result of using the limits of deviation at detailed design stage.

5.1.4 Habitats of Principal Importance are widespread, dominated by deciduous woodland and lowland grassland and meadow, with smaller areas of traditional orchard, coastal saltmarsh, mudflats, fen and reedbed.

5.1.5 Local Records Centre data confirm the presence of protected and notable plant species in the study area, including records within the Order Limits. These include bluebell, which is protected under the WCA 1981 (H.M Government, 1981). Invasive non-native plant species are also recorded within the Order Limits, typically associated with riparian habitats and disturbed ground.

5.2 Field Surveys

Phase 1 Habitat Survey

5.2.1 The study area supports a wide range of habitats characteristic of an intensively managed rural landscape, dominated by arable land and associated poor semi-improved and improved grasslands. These habitats are interspersed with scattered woodland blocks, scrub and areas of disturbed ground, reflecting both long-established land use and more recent modification. Linear features include field drains, becks, larger rivers and canals, and hedgerows border many field boundaries.

5.2.2 Although many of the habitats are common and managed, a number of features of higher ecological importance are present. These include semi-natural and ancient woodland, and Woodland with Characteristics of Ancient Woodland, species-rich

hedgerows, priority grassland types and Open Mosaic Habitat on Previously Developed Land. Wetland habitats are frequent and locally support notable flora, with some forming part of LWS. Coastal and estuarine habitats associated with the Humber Estuary SAC, SSSI and Ramsar site are also present.

Protected/Notable Plants.

5.2.3 Protected and notable plant species were recorded within the survey area, primarily associated with semi-natural woodland, calcareous and neutral grassland, and plantation habitats.

5.2.4 Native bluebells were recorded in several woodlands and may be affected by the Project. Pre-commencement checks of woodland (including woodland edges) will be carried out by an appointed Ecological Clerk of Works (ECoW), to identify and map bluebell locations during their visible season (late April to early June). Where avoidance is not possible, turves containing bluebells will be carefully removed, retaining as much surrounding soil as possible. For short-term works, turves will be stored, watered, reinstated after completion, and protected with temporary fencing. For longer-term works, translocation to unaffected woodland areas may be undertaken. Where appropriate (May to June), bluebell seeds may also be collected to aid re-establishment in suitable locations.

5.2.5 Yellow bird's-nest was recorded in Bilkshill Plantation and may also be impacted by the Project. Yellow bird's-nest does not photosynthesise and is dependent upon its fungal network for nutrients. It is most sensitive to disturbance between May and September, though soil disruption should be minimised year-round to protect its fungal network. Mitigation focuses on maintaining a 100 m buffer around populations where possible, with seasonal measures including avoiding soil disturbance during dormancy (October–April), fencing at emergence (May), prohibiting works during flowering (Jun–Jul), and preserving canopy and fungi during fruiting (August–September). Where buffers cannot be maintained, transplanting is a last resort, using intact soil blocks with fungal networks, preserving orientation and shade canopy, replanting immediately, watering thoroughly, and overseen by specialists. Late Spring to early Summer is the optimal transplant period to minimise transplant shock. Further details of yellow bird's-nest surveys and mitigation are set out in **Application Document 6.8.A4 Appendix 8.4 Botanical Report**.

5.2.6 Two native black poplars were adjacent to a watercourse on the boundary between Route Sections C and D, the closest pylon being 4AF128. The trees are located within the survey area but outside of the Order Limits. The Project is committed to retaining these trees, and no tree pruning or coppicing (inclusive of works within the RPAs) will occur as secured through the relevant commitment in **Application Document 7.3 Register of Environmental Actions and Commitments.**

5.2.7 Water violet was recorded within a ditch located inside the Order Limits. The Project will not involve any crossing of this ditch. Construction Exclusion Zones (CEZ) will be established prior to the commencement of works to clearly define working areas and safeguard retained habitats. No temporary or permanent construction activities will take place within 5 m of the ditch. Other notable plants recorded during the Phase 1 habitat survey are primarily associated with Brantingham Dale, Brantingham SSSI, and/or Brantingham Wood, and Socken Wood. For sensitive calcareous grasslands at Brantingham, mitigation will include pre-construction topsoil stripping (150 mm) with separate storage and fencing to protect adjacent habitats. During works, soils will be kept undisturbed and weed-free. Post-construction, topsoil will be reinstated in

its original location, and the retained seedbank supplemented with locally sourced seed or green hay where needed. Aftercare will include monitoring and removing invasive species in Year 1, with late-Summer mowing and ongoing monitoring of vegetation and soil conditions over Years 2 to 5.

Invasive Non-Native Plant Species

5.2.8 Five INNPS were recorded within the Order Limits during the Phase 1 habitat survey: Japanese knotweed; giant knotweed; Himalayan balsam; montbretia and Nuttall's waterweed. Variegated yellow archangel was also found within 10 m of the Order Limits. Invasive non-native plant species are not of ecological value, but they do pose a risk to ecology and biodiversity.

5.2.9 An Invasive and Non-Native Species Management Plan will be produced pre-construction and complied with at the applicable phase, to detail required eradication methods (where necessary) for INNS present on-site and biosecurity controls to prevent spread. Pre-construction surveys will be carried out to provide an update on the presence and location of any INNPS previously identified. This will inform the implementation of measures to prevent their further spread, such as biosecurity measures, exclusion zones, or treatment.

5.3 Nature Conservation Evaluation

5.3.1 Most habitats within the study area are of Site to Local importance, reflecting their managed and fragmented nature. However, higher value habitats are present, as set out in Table 4.8.

5.3.2 These include semi-natural woodland, lowland mixed deciduous woodland and ancient woodlands, and Woodlands with Characteristics of Ancient Woodland (as identified by the Project) which are of Local to National importance. Hedgerows and traditional orchards are of County importance. Plantation woodland at Bilkshill (Route Section A) supports the notable species yellow bird's-nest and is of County importance. Native black poplar is also of County importance, whilst veteran trees are of National importance.

5.3.3 Species-rich semi-improved neutral grassland associated with Sedge Hole Close Wildlife Trust Reserve LWS and Lowland Meadow HPI is of **County** importance, while calcareous grassland within Brantingham Dale SSSI is of **National** importance. The discrete stand of calcareous grassland recorded outside Brantingham Dale SSSI is considered of **Local** importance.

5.3.4 Estuarine habitats along the River Ouse within the Humber Estuary SAC, including intertidal mud and sand, mudflats and saltmarsh, are of International importance. The running water habitat of the river itself is also of International importance. Standing water habitats, comprising ponds, drains and wet ditches, are predominantly of Site to Local importance. However, the Chesterfield Canal SSSI is of National importance, reflecting its statutory designation.

6. Potential Interactions with the Project and Mitigation

6.1.1 Potential effects on habitats and protected/notable plants from the Project and the mitigation measures proposed are provided in the following:

- **Application Document 6.8 Chapter 8 Ecology**;
- **Application Document 6.8.A4 Appendix 8.4 Botanical Report**;
- **Application Document 6.8.A10 Appendix 8.10 Aquatic Ecology Report**;
- **Application Document 7.14 Arboricultural Impact Assessment**;
- **Application Document 7.3 Register of Environmental Actions and Commitments**; and
- **Application Document 7.8 Outline Landscape and Ecology Management Plan**.

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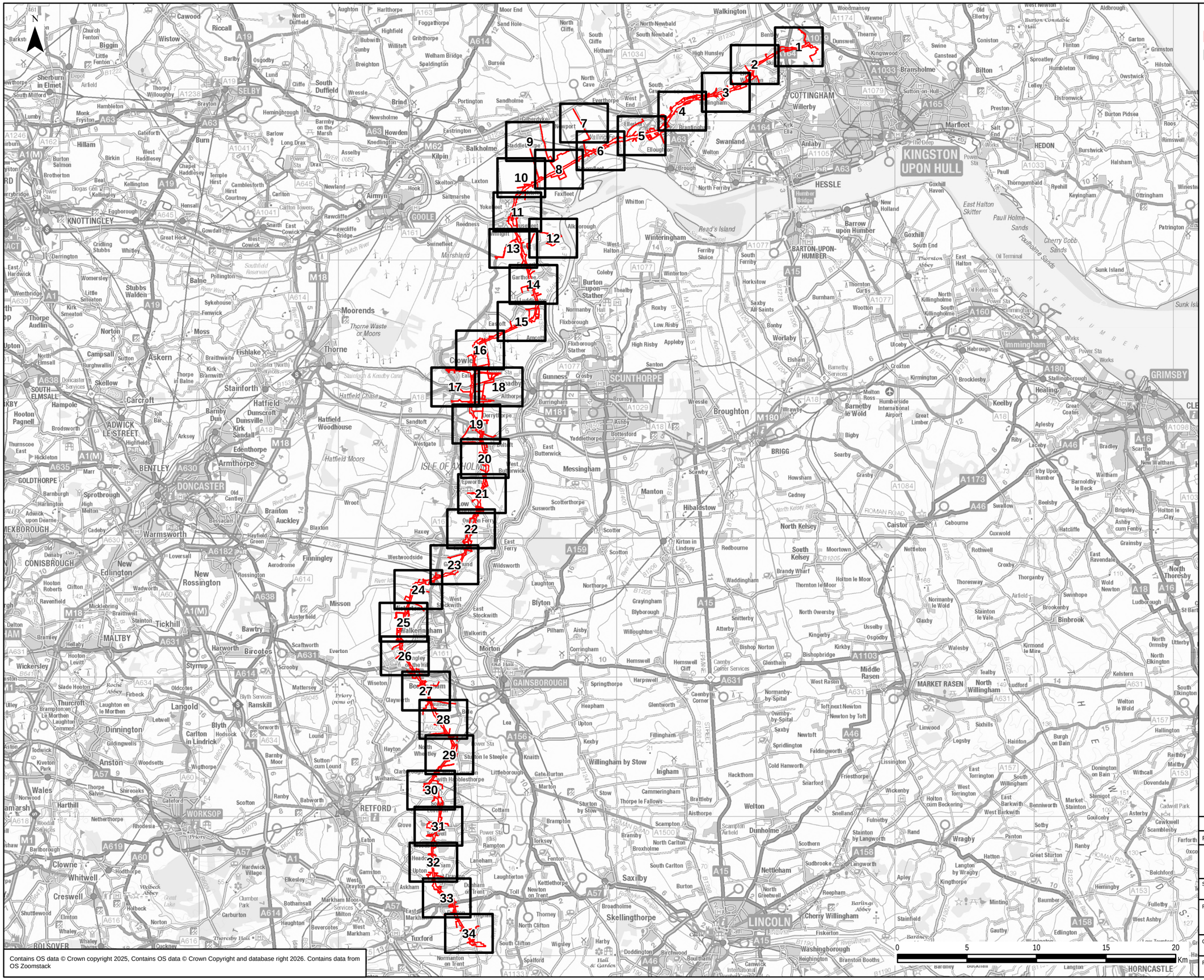
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Annex A
Figures

Figure A8.3.1: Phase 1 Habitat Survey



Legend

- Order Limits
- Map Sheet

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP KEY PLAN

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N

4AF10

4AF5

4ZQ105

4ZQ110

Sheet 1 and 2

0 0.25 0.5 0.75 1 Km

Legend

Order Limits

50 m Survey Area from the Order Limits

Existing Overhead Line

275 kV

400 kV

Project Design Details

Indicative New Overhead Line

Indicative New Lattice Pylon

Indicative New Gantry

Existing Overhead Line Not Affected

Existing Lattice Pylon Not Affected

Phase 1 Habitat

A3.1 - Broadleaved parkland/scattered trees

A2.2 - Scrub - scattered

A3.1 - Broadleaved parkland/scattered trees

A3.3 - Mixed parkland/scattered trees

G2 - Running water

J2.1.1 - Intact hedge - native species-rich

J2.1.2 - Intact hedge - species-poor

J2.2.2 - Defunct hedge - species-poor

J2.3.1 - Hedge with trees - native species-rich

J2.3.2 - Hedge with trees - species-poor

J2.6 - Dry ditch

A1.1.1 - Broadleaved woodland - semi-natural

A1.1.2 - Broadleaved woodland - plantation

A1.3.1 - Mixed woodland - semi-natural

A1.3.2 - Mixed woodland - plantation

A2.1 - Scrub - dense/continuous

A2.2 - Scrub - scattered

A3.1 - Broadleaved parkland/scattered trees

B2.2 - Neutral grassland - semi-improved

B4 - Improved grassland

B6 - Poor semi-improved grassland

C3.1 - Other tall herb and fern - ruderal

G1 - Standing water

G2 - Running water

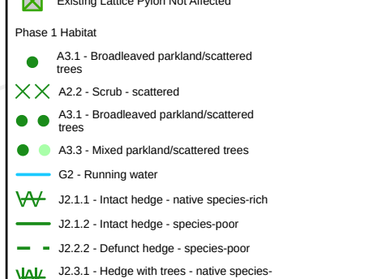
J1.1 - Cultivated/disturbed land - arable

J1.2 - Cultivated/disturbed land - amenity grassland

J1.3 - Cultivated/disturbed land - ephemeral/short perennial

J3.6 - Buildings

Hardstanding



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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
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N

4AF15

4ZQ100

4AF20

4ZQ95

Sheet 1 and 2

Sheet 2 and 3

0 0.25 0.5 0.75 1 Km

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Legend

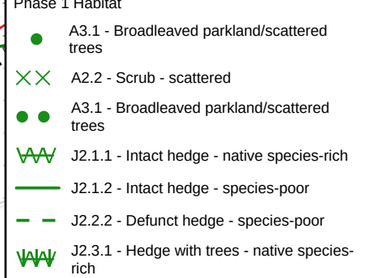
- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected

Phase 1 Habitat

- A3.1 - Broadleaved parkland/scattered trees
- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A2.1 - Scrub - dense/continuous
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J1.3 - Cultivated/disturbed land - ephemeral/short perennial
- J1.4 - Introduced shrub
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

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N

Sheet 2 and 3

Sheet 3 and 4

4AF20

4ZQ95

4AF25

4ZQ90

4ZQ85

Legend

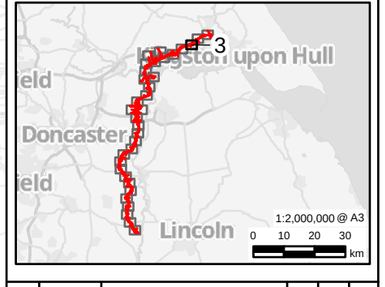
- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected

Phase 1 Habitat

- A3.1 - Broadleaved parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- A1.1.1 - Broadleaved woodland - semi-natural
- A2.1 - Scrub - dense/continuous
- A2.2 - Scrub - scattered
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- G1 - Standing water
- I2.2 - Spoil
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J1.3 - Cultivated/disturbed land - ephemeral/short perennial
- J1.4 - Introduced shrub
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	EB	JG	RR
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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
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Figure Ref:	Scale:	Format:	Sheets:	Rev:
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0 0.25 0.5 0.75 1 Km

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N

4AF30

4ZQ85

4AF35

4ZQ80

4AF40

4ZQ75

Sheet 3 and 4

Sheet 4 and 5

0 0.25 0.5 0.75 1 Km

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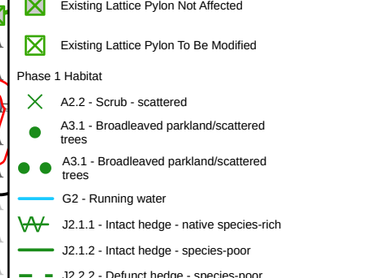
- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconductored
- Existing Overhead Line to be Dismantled
- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified

Phase 1 Habitat

- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.4 - Fence
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A1.1.2 - Broadleaved woodland - plantation
- A1.2.2 - Coniferous woodland - plantation
- A1.3.2 - Mixed woodland - plantation
- A2.1 - Scrub - dense/continuous
- B2.2 - Neutral grassland - semi-improved
- B3.2 - Calcareous grassland - semi-improved
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J1.3 - Cultivated/disturbed land - ephemeral/short perennial
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
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N

4AF45

4ZQ70

4AF50

4ZQ65

Sheet 4 and 5

Sheet 5 and 6

0 0.25 0.5 0.75 1 Km

Legend

Order Limits

50 m Survey Area from the Order Limits

Project Design Details

Indicative New Overhead Line

Indicative New Lattice Pylon

Existing Overhead Line to be Reconductored

Existing Overhead Line to be Dismantled

Existing Lattice Pylon To Be Modified

Existing Lattice Pylon To Be Removed

Phase 1 Habitat

A3.1 - Broadleaved parkland/scattered trees

A3.1 - Broadleaved parkland/scattered trees

A3.2 - Coniferous parkland/scattered trees

G1 - Standing water

G2 - Running water

J2.1.1 - Intact hedge - native species-rich

J2.1.2 - Intact hedge - species-poor

J2.2.2 - Defunct hedge - species-poor

J2.3.1 - Hedge with trees - native species-rich

J2.3.2 - Hedge with trees - species-poor

J2.4 - Fence

J2.6 - Dry ditch

A1.1.1 - Broadleaved woodland - semi-natural

A1.1.2 - Broadleaved woodland - plantation

A1.2.2 - Coniferous woodland - plantation

A1.3.2 - Mixed woodland - plantation

A2.1 - Scrub - dense/continuous

A3.1 - Broadleaved parkland/scattered trees

B2.2 - Neutral grassland - semi-improved

B4 - Improved grassland

B6 - Poor semi-improved grassland

G1 - Standing water

G2 - Running water

J1.1 - Cultivated/disturbed land - arable

J1.2 - Cultivated/disturbed land - amenity grassland

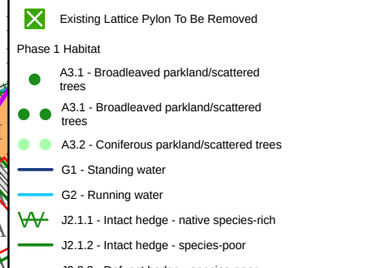
J1.3 - Cultivated/disturbed land - ephemeral/short perennial

J1.4 - Introduced shrub

J3.6 - Buildings

J4 - Bare ground

Hardstanding



Rev	Date	Description	GIS	Chk	App
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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
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N

Sheet 6 and 7

Sheet 5 and 6

Sheet 6 and 8

4AF50

4AF55

4ZQ60

4AF60

4ZQ55

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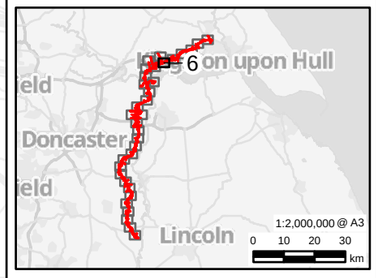
- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Dismantled
- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Existing Lattice Pylon To Be Removed

Phase 1 Habitat

- A3.1 - Broadleaved parkland/scattered trees
- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A3.2 - Coniferous parkland/scattered trees
- A3.3 - Mixed parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- G2.1 - Running water - eutrophic
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.4 - Fence
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A2.1 - Scrub - dense/continuous
- A2.2 - Scrub - scattered
- A3.3 - Mixed parkland/scattered trees
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J2.5 - Wall
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
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Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	6 OF 34	0

0 0.25 0.5 0.75 1 Km

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Sheet 6 and 7

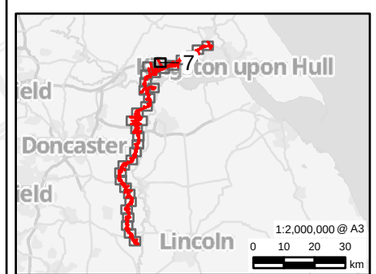
0 0.25 0.5 0.75 1 Km

Legend

- Order Limits
- 50 m Survey Area from the Order Limits

Phase 1 Habitat

- A3.1 - Broadleaved parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- A3.2 - Coniferous parkland/scattered trees
- G1 - Standing water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- A2.1 - Scrub - dense/continuous
- A3.3 - Mixed parkland/scattered trees
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- G1 - Standing water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

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N

Sheet 8 and 9

Sheet 6 and 8

Sheet 8 and 10

4AF60

4AF65

4ZQ50

4AF70

4ZQ45

Legend

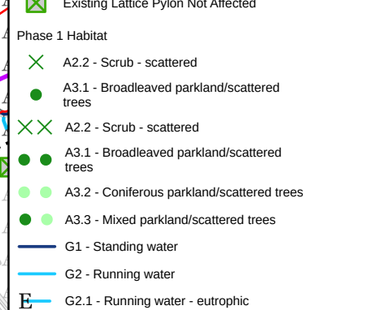
- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected

Phase 1 Habitat

- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A3.2 - Coniferous parkland/scattered trees
- A3.3 - Mixed parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- G2.1 - Running water - eutrophic
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A1.1.2 - Broadleaved woodland - plantation
- A2.1 - Scrub - dense/continuous
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- F2.2 - Marginal and inundation - inundation vegetation
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J2.6 - Dry ditch
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	8 OF 34	0

0 0.25 0.5 0.75 1 Km

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N

Sheet 9 and 10

Sheet 8 and 9

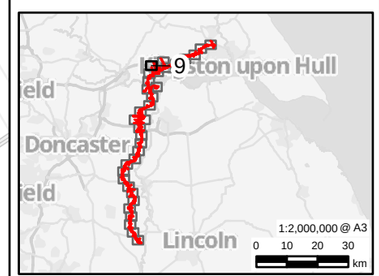
0 0.25 0.5 0.75 1 Km

Legend

- Order Limits
- 50 m Survey Area from the Order Limits

Phase 1 Habitat

- A3.1 - Broadleaved parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.6 - Dry ditch
- A2.1 - Scrub - dense/continuous
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J2.6 - Dry ditch
- J3.6 - Buildings
- Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	9 OF 34	0

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N

Sheet 9 and 10

Sheet 8 and 10

Sheet 10 and 11

4AF70

4ZQ45

4AF75

4ZQ40

0 0.25 0.5 0.75 1 Km

Legend

- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected

Phase 1 Habitat

- A3.1 - Broadleaved parkland/scattered trees
- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A3.2 - Coniferous parkland/scattered trees
- A3.3 - Mixed parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A1.1.2 - Broadleaved woodland - plantation
- A2.1 - Scrub - dense/continuous
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J2.6 - Dry ditch
- J3.6 - Buildings
- Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	10 OF 34	0

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N

Sheet 10 and 11

4AF75

4ZQ40

4ZQ35

4AF80

Sheet 11 and 13

Sheet 11 and 12

0 0.25 0.5 0.75 1 Km

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Legend

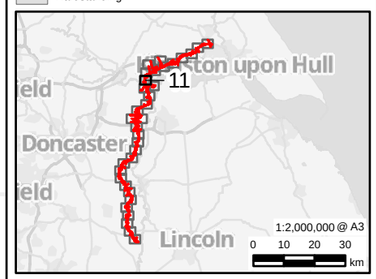
- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected

Phase 1 Habitat

- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- G2.1 - Running water - eutrophic
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.4 - Fence
- J2.5 - Wall
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A2.1 - Scrub - dense/continuous
- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A3.3 - Mixed parkland/scattered trees
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- G1 - Standing water
- G2 - Running water
- G2.1 - Running water - eutrophic
- H1.1 - Intertidal - mud/sand
- H2.6 - Saltmarsh - dense/continuous
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J1.3 - Cultivated/disturbed land - ephemeral/short perennial
- J2.5 - Wall
- J2.6 - Dry ditch
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	11 OF 34	0

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N

Sheet 11 and 12

Sheet 12 and 13

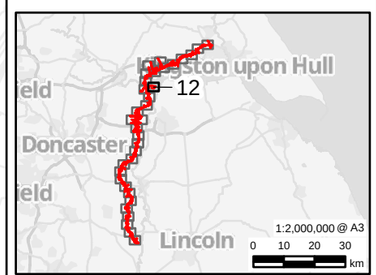
The current Functionally Linked Land Mitigation Area was not assessed as part of the Phase 1 habitat surveys

Legend

- Order Limits
- 50 m Survey Area from the Order Limits
- Functionally Linked Land Mitigation Area

Phase 1 Habitat

- G1 - Standing water
- Hedgerow identified via a desk-based assessment
- SI — B6 - Poor semi-improved grassland
- G1 - Standing water
- J1.1 - Cultivated/disturbed land - arable
- Hardstanding



0 0.25 0.5 0.75 1 Km

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
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Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	12 OF 34	0

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N

Sheet 11 and 13

4ZQ30

4AF85

Sheet 12 and 13

Sheet 13 and 14

4ZQ25

0 0.25 0.5 0.75 1 Km

Legend

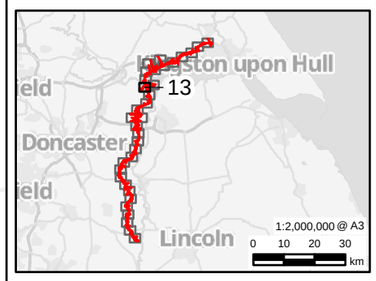
- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected

Phase 1 Habitat

- A3.1 - Broadleaved parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A2.1 - Scrub - dense/continuous
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J2.6 - Dry ditch
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	13 OF 34	0

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N

Sheet 13 and 14

4AF90

4ZQ25

4AF95

4ZQ20

Sheet 14 and 15

0 0.25 0.5 0.75 1 Km

Legend

- Order Limits
- 50 m Survey Area from the Order Limits

Existing Overhead Line

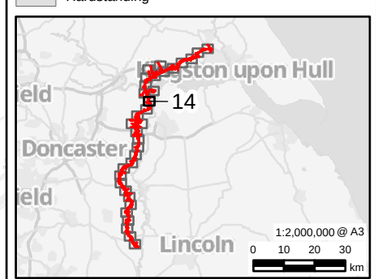
- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected

Phase 1 Habitat

- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A3.2 - Coniferous parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A2.1 - Scrub - dense/continuous
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- C3.2 - Other tall herb and fern - non ruderal
- G1 - Standing water
- G2 - Running water
- I2.2 - Spoil
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J2.8 - Earth bank
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	14 OF 34	0

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N

Sheet 14 and 15

Sheet 15 and 16

4AF100

4ZQ15

4AF105

4ZQ10

0 0.25 0.5 0.75 1 Km

Legend

Order Limits

50 m Survey Area from the Order Limits

Existing Overhead Line

400 kV

Project Design Details

Indicative New Overhead Line

Indicative New Lattice Pylon

Existing Overhead Line Not Affected

Existing Lattice Pylon Not Affected

Phase 1 Habitat

A2.2 - Scrub - scattered

A3.1 - Broadleaved parkland/scattered trees

A3.1 - Broadleaved parkland/scattered trees

G1 - Standing water

G2 - Running water

J2.1.2 - Intact hedge - species-poor

J2.2.2 - Defunct hedge - species-poor

J2.3.1 - Hedge with trees - native species-rich

J2.3.2 - Hedge with trees - species-poor

J2.6 - Dry ditch

A1.1.1 - Broadleaved woodland - semi-natural

A2.1 - Scrub - dense/continuous

B4 - Improved grassland

B6 - Poor semi-improved grassland

G1 - Standing water

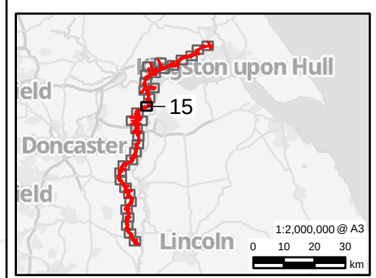
G2 - Running water

J1.1 - Cultivated/disturbed land - arable

J2.6 - Dry ditch

J3.6 - Buildings

Hardstanding



Rev	Date	Description	GIS	Chk	App
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
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N

4AF110

4AF115

4AF119

Sheet 15 and 16

Sheet 16 and 17

Sheet 16 and 18

0 0.25 0.5 0.75 1 Km

Legend

Order Limits

50 m Survey Area from the Order Limits

Project Design Details

Indicative New Overhead Line

Indicative New Lattice Pylon

Phase 1 Habitat

A3.1 - Broadleaved parkland/scattered trees

A2.2 - Scrub - scattered

A3.1 - Broadleaved parkland/scattered trees

G1 - Standing water

G2 - Running water

J2.1.1 - Intact hedge - native species-rich

J2.1.2 - Intact hedge - species-poor

J2.2.2 - Defunct hedge - species-poor

J2.3.1 - Hedge with trees - native species-rich

J2.3.2 - Hedge with trees - species-poor

J2.6 - Dry ditch

A1.1.1 - Broadleaved woodland - semi-natural

A1.1.2 - Broadleaved woodland - plantation

A2.1 - Scrub - dense/continuous

B2.2 - Neutral grassland - semi-improved

B4 - Improved grassland

B6 - Poor semi-improved grassland

C3.1 - Other tall herb and fern - ruderal

G1 - Standing water

G2 - Running water

J1.1 - Cultivated/disturbed land - arable

J1.2 - Cultivated/disturbed land - amenity grassland

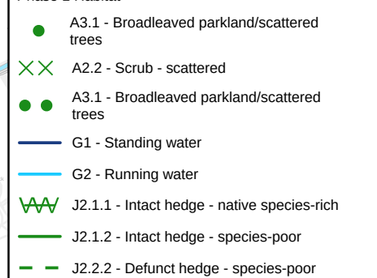
J1.3 - Cultivated/disturbed land - ephemeral/short perennial

J2.6 - Dry ditch

J3.6 - Buildings

J4 - Bare ground

Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

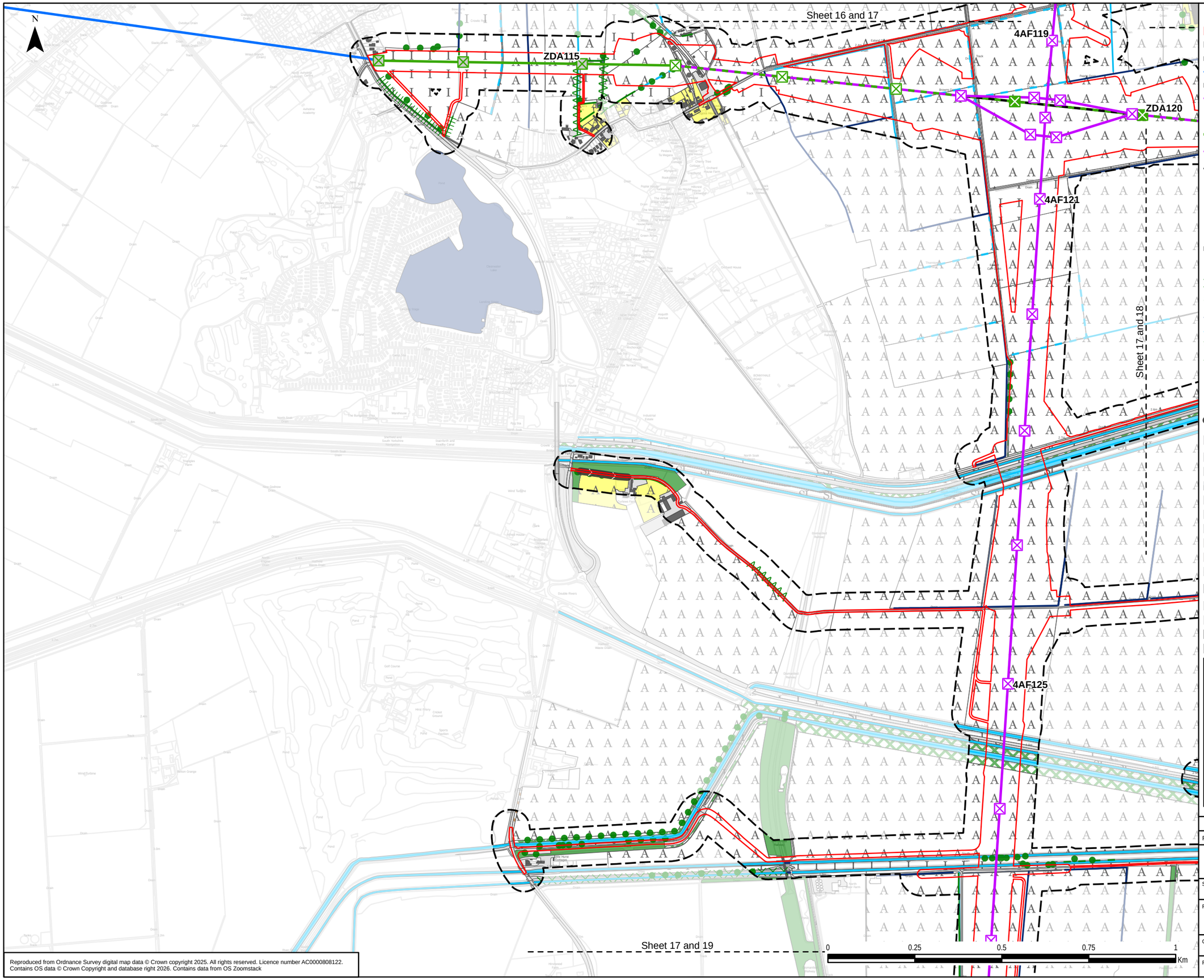
Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

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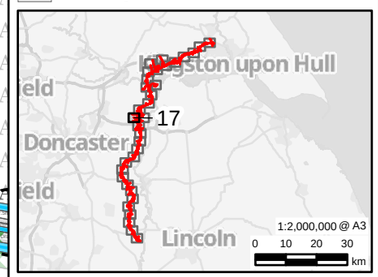
Legend

- Order Limits
- 50 m Survey Area from the Order Limits

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconductored
- Existing Overhead Line to be Dismantled
- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Existing Lattice Pylon To Be Removed

Phase 1 Habitat
- A3.1 - Broadleaved parkland/scattered trees
- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- Hedgerow identified via a desk-based assessment
- A1.1.1 - Broadleaved woodland - semi-natural
- A2.1 - Scrub - dense/continuous
- A2.2 - Scrub - scattered
- B2.2 - Neutral grassland - semi-improved
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J2.6 - Dry ditch
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev.	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
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Sheet 16 and 18

Sheet 17 and 18

Sheet 18 and 19

ZDA120

ZDA125

N

0 0.25 0.5 0.75 1 Km

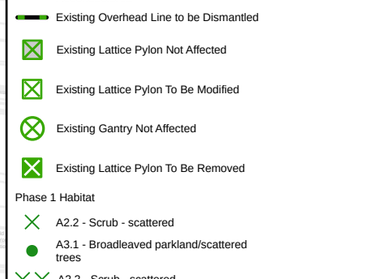
Legend

- Order Limits
- 50 m Survey Area from the Order Limits

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconductored
- Existing Overhead Line to be Dismantled
- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Existing Gantry Not Affected
- Existing Lattice Pylon To Be Removed

Phase 1 Habitat
- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A2.1 - Scrub - dense/continuous
- A2.2 - Scrub - scattered
- B1.2 - Acid grassland - semi-improved
- B2.2 - Neutral grassland - semi-improved
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- F2.2 - Marginal and inundation - inundation vegetation
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J1.3 - Cultivated/disturbed land - ephemeral/short perennial
- J2.6 - Dry ditch
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	18 OF 34	0

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N

Sheet 17 and 19

Sheet 18 and 19

4AF130

4AF135

Sheet 19 and 20

0 0.25 0.5 0.75 1 Km

Legend

- Order Limits
- 50 m Survey Area from the Order Limits

Existing Overhead Line

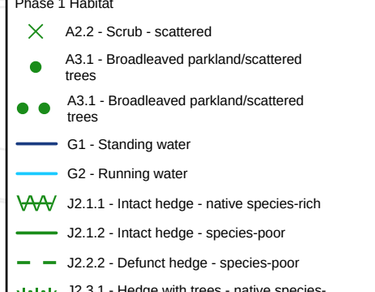
- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Phase 1 Habitat

- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A1.1.2 - Broadleaved woodland - plantation
- A2.1 - Scrub - dense/continuous
- B2.2 - Neutral grassland - semi-improved
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J1.3 - Cultivated/disturbed land - ephemeral/short perennial
- J2.6 - Dry ditch
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	EB	JG	RR
0	13/10/2026	ENVIRONMENTAL STATEMENT			

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	19 OF 34	0

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N

Sheet 19 and 20

4AF135

4AF140

Sheet 20 and 21

0 0.25 0.5 0.75 1 Km

Legend

Order Limits

50 m Survey Area from the Order Limits

Existing Overhead Line

400 kV

Project Design Details

Indicative New Overhead Line

Indicative New Lattice Pylon

Phase 1 Habitat

A3.1 - Broadleaved parkland/scattered trees

A3.1 - Broadleaved parkland/scattered trees

G1 - Standing water

G2 - Running water

J2.1.1 - Intact hedge - native species-rich

J2.1.2 - Intact hedge - species-poor

J2.2.2 - Defunct hedge - species-poor

J2.3.1 - Hedge with trees - native species-rich

J2.3.2 - Hedge with trees - species-poor

J2.6 - Dry ditch

A1.1.1 - Broadleaved woodland - semi-natural

A2.1 - Scrub - dense/continuous

B4 - Improved grassland

B6 - Poor semi-improved grassland

C3.1 - Other tall herb and fern - ruderal

G1 - Standing water

G2 - Running water

J1.1 - Cultivated/disturbed land - arable

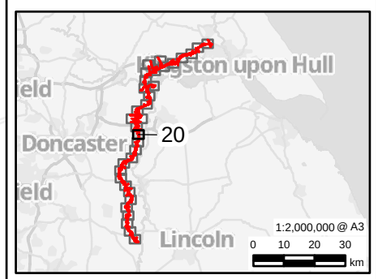
J1.2 - Cultivated/disturbed land - amenity grassland

J1.3 - Cultivated/disturbed land - ephemeral/short perennial

J3.6 - Buildings

J4 - Bare ground

Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	20 OF 34	0

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N

Sheet 20 and 21

4AF145

Sheet 21 and 22

Legend

- Order Limits
- 50 m Survey Area from the Order Limits

Existing Overhead Line

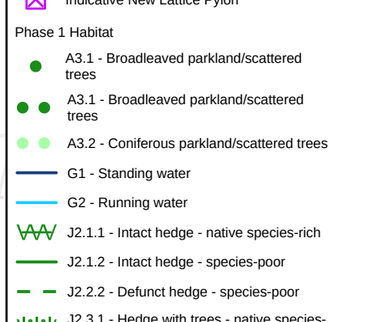
- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Phase 1 Habitat

- A3.1 - Broadleaved parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- A3.2 - Coniferous parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A2.1 - Scrub - dense/continuous
- A2.2 - Scrub - scattered
- B2.2 - Neutral grassland - semi-improved
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- F2.1 - Marginal and inundation - marginal vegetation
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J1.4 - Introduced shrub
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



0 0.25 0.5 0.75 1 Km

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0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	21 OF 34	0

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N

Sheet 21 and 22

4AF150

4AF155

Sheet 22 and 23

0 0.25 0.5 0.75 1 Km

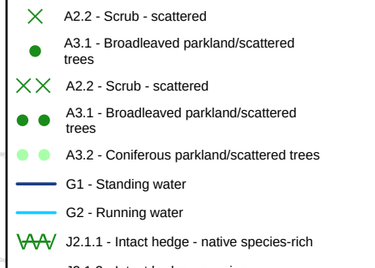
Legend

- Order Limits
- 50 m Survey Area from the Order Limits

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon

Phase 1 Habitat
- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A3.2 - Coniferous parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.4 - Fence
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A1.2.2 - Coniferous woodland - plantation
- A2.1 - Scrub - dense/continuous
- B2.2 - Neutral grassland - semi-improved
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- F2.1 - Marginal and inundation - marginal vegetation
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	EB	JG	RR
0	13/10/2026	ENVIRONMENTAL STATEMENT			

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	22 OF 34	0

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N

Sheet 22 and 23

Sheet 23 and 24

4AF160

4AF165

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0 0.25 0.5 0.75 1 Km

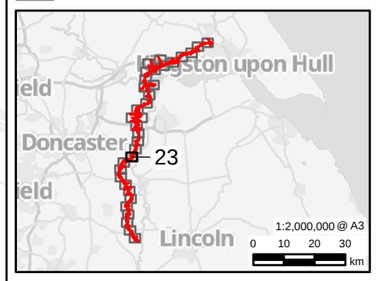
Legend

- Order Limits
- 50 m Survey Area from the Order Limits

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon

Phase 1 Habitat
- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- G2.1 - Running water - eutrophic
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.4 - Fence
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A1.2.2 - Coniferous woodland - plantation
- A2.1 - Scrub - dense/continuous
- B2.2 - Neutral grassland - semi-improved
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- F2.1 - Marginal and inundation - marginal vegetation
- G1 - Standing water
- G2 - Running water
- G2.1 - Running water - eutrophic
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	23 OF 34	0

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4AF165

4AF170

4AF175

Sheet 23 and 24

Sheet 24 and 25

Legend

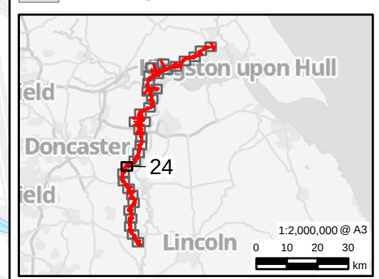
- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Phase 1 Habitat

- A3.1 - Broadleaved parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- A3.3 - Mixed parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A1.2.2 - Coniferous woodland - plantation
- A1.3.2 - Mixed woodland - plantation
- A2.1 - Scrub - dense/continuous
- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- B2.2 - Neutral grassland - semi-improved
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- F2.2 - Marginal and inundation - inundation vegetation
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	24 OF 34	0

0 0.25 0.5 0.75 1 Km

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4AF175

Sheet 24 and 25

4AF180

Sheet 25 and 26

0 0.25 0.5 0.75 1 Km

Legend

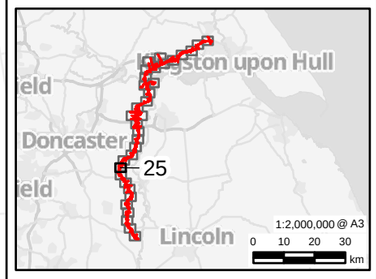
- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Phase 1 Habitat

- A3.1 - Broadleaved parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- A3.3 - Mixed parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A1.1.2 - Broadleaved woodland - plantation
- A2.2 - Scrub - scattered
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J3.6 - Buildings
- Hardstanding



Rev	Date	Description	GIS	Chk	App
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	25 OF 34	0

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N

Sheet 25 and 26

4AF185

4AF190

Sheet 26 and 27

0 0.25 0.5 0.75 1 Km

Legend

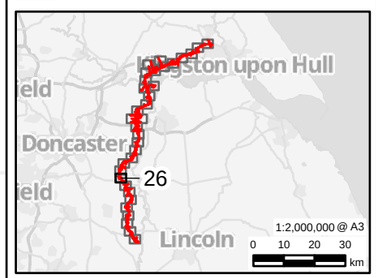
- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Phase 1 Habitat

- A3.1 - Broadleaved parkland/scattered trees
- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A3.3 - Mixed parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.4 - Fence
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A1.1.2 - Broadleaved woodland - plantation
- A2.1 - Scrub - dense/continuous
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- F2.1 - Marginal and inundation - marginal vegetation
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	26 OF 34	0

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N

Sheet 26 and 27

4AF195

Sheet 27 and 28

0 0.25 0.5 0.75 1 Km

Legend

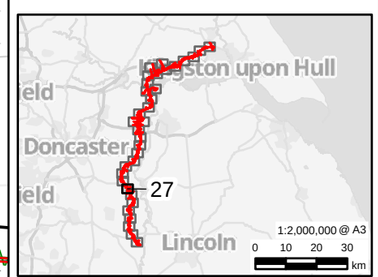
- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Phase 1 Habitat

- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- A3.3 - Mixed parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.4 - Fence
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A2.1 - Scrub - dense/continuous
- B2.2 - Neutral grassland - semi-improved
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	27 OF 34	0

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Sheet 27 and 28

4AF200

4AF205

Sheet 28 and 29

0 0.25 0.5 0.75 1 Km

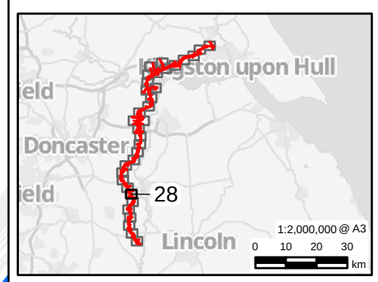
Legend

- Order Limits
- 50 m Survey Area from the Order Limits

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon

Phase 1 Habitat
- A3.1 - Broadleaved parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A1.1.2 - Broadleaved woodland - plantation
- A2.1 - Scrub - dense/continuous
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J3.6 - Buildings
- Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	28 OF 34	0

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N

Sheet 28 and 29

4AF210

4AF215

Sheet 29 and 30

0 0.25 0.5 0.75 1 Km

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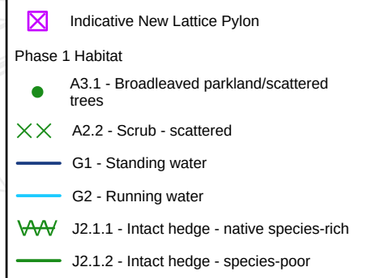
Legend

- Order Limits
- 50 m Survey Area from the Order Limits

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon

Phase 1 Habitat
- A3.1 - Broadleaved parkland/scattered trees
- A2.2 - Scrub - scattered
- G1 - Standing water
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.4 - Fence
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A1.1.2 - Broadleaved woodland - plantation
- A2.1 - Scrub - dense/continuous
- A3.1 - Broadleaved parkland/scattered trees
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J3.6 - Buildings
- Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	29 OF 34	0

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N

Sheet 29 and 30

4AF220

4AF225

Sheet 30 and 31

0 0.25 0.5 0.75 1 Km

Legend

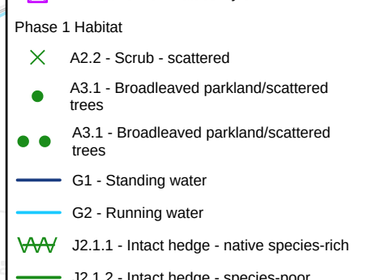
- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Phase 1 Habitat

- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A1.3.1 - Mixed woodland - semi-natural
- A2.1 - Scrub - dense/continuous
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J1.3 - Cultivated/disturbed land - ephemeral/short perennial
- J3.6 - Buildings
- Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	30 OF 34	0

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N

Sheet 30 and 31

4AF230

Sheet 31 and 32

Legend

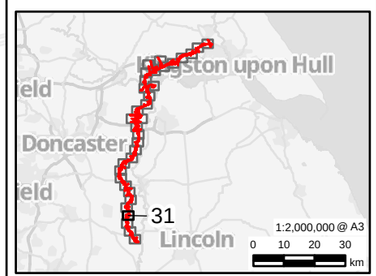
- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Phase 1 Habitat

- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A2.1 - Scrub - dense/continuous
- B2.2 - Neutral grassland - semi-improved
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	31 OF 34	0

0 0.25 0.5 0.75 1 Km

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N

Sheet 31 and 32

4AF235

4AF240

Sheet 32 and 33

0 0.25 0.5 0.75 1 Km

Legend

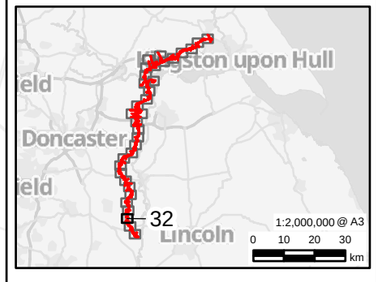
- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Phase 1 Habitat

- A2.2 - Scrub - scattered
- A3.1 - Broadleaved parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A1.1.2 - Broadleaved woodland - plantation
- A2.1 - Scrub - dense/continuous
- A2.2 - Scrub - scattered
- B2.2 - Neutral grassland - semi-improved
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J1.4 - Introduced shrub
- J2.5 - Wall
- J3.6 - Buildings
- Hardstanding



Rev.	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	32 OF 34	0

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N

4AF240

Sheet 32 and 33

4AF245

4AF2

Sheet 33 and 34

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Legend

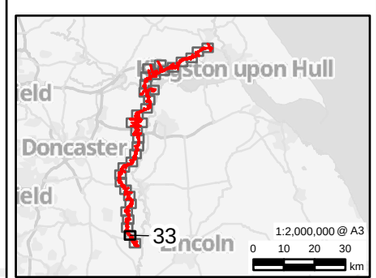
- Order Limits
- 50 m Survey Area from the Order Limits

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Phase 1 Habitat

- A3.1 - Broadleaved parkland/scattered trees
- A3.2 - Coniferous parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.3.2 - Hedge with trees - species-poor
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A1.2.2 - Coniferous woodland - plantation
- A2.1 - Scrub - dense/continuous
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herb and fern - ruderal
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J1.4 - Introduced shrub
- J2.5 - Wall
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	33 OF 34	0

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Sheet 33 and 34

4AF250

4AF255

4AF260

Legend

- Order Limits
- 50 m Survey Area from the Order Limits

Existing Overhead Line

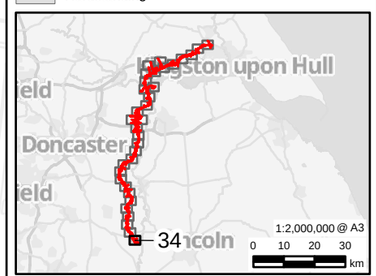
- 275 kV
- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Indicative New Gantry

Phase 1 Habitat

- A3.1 - Broadleaved parkland/scattered trees
- A3.1 - Broadleaved parkland/scattered trees
- G1 - Standing water
- G2 - Running water
- J2.1.1 - Intact hedge - native species-rich
- J2.1.2 - Intact hedge - species-poor
- J2.2.2 - Defunct hedge - species-poor
- J2.3.1 - Hedge with trees - native species-rich
- J2.3.2 - Hedge with trees - species-poor
- J2.4 - Fence
- J2.6 - Dry ditch
- A1.1.1 - Broadleaved woodland - semi-natural
- A2.1 - Scrub - dense/continuous
- B2.2 - Neutral grassland - semi-improved
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Other tall herd and fern - ruderal
- G1 - Standing water
- G2 - Running water
- J1.1 - Cultivated/disturbed land - arable
- J1.2 - Cultivated/disturbed land - amenity grassland
- J1.3 - Cultivated/disturbed land - ephemeral/short perennial
- J3.6 - Buildings
- J4 - Bare ground
- Hardstanding



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	EB	JG	RR

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - PHASE 1 HABITAT SURVEY MAP

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	13/10/2026	JG	13/10/2026	RR	13/10/2026

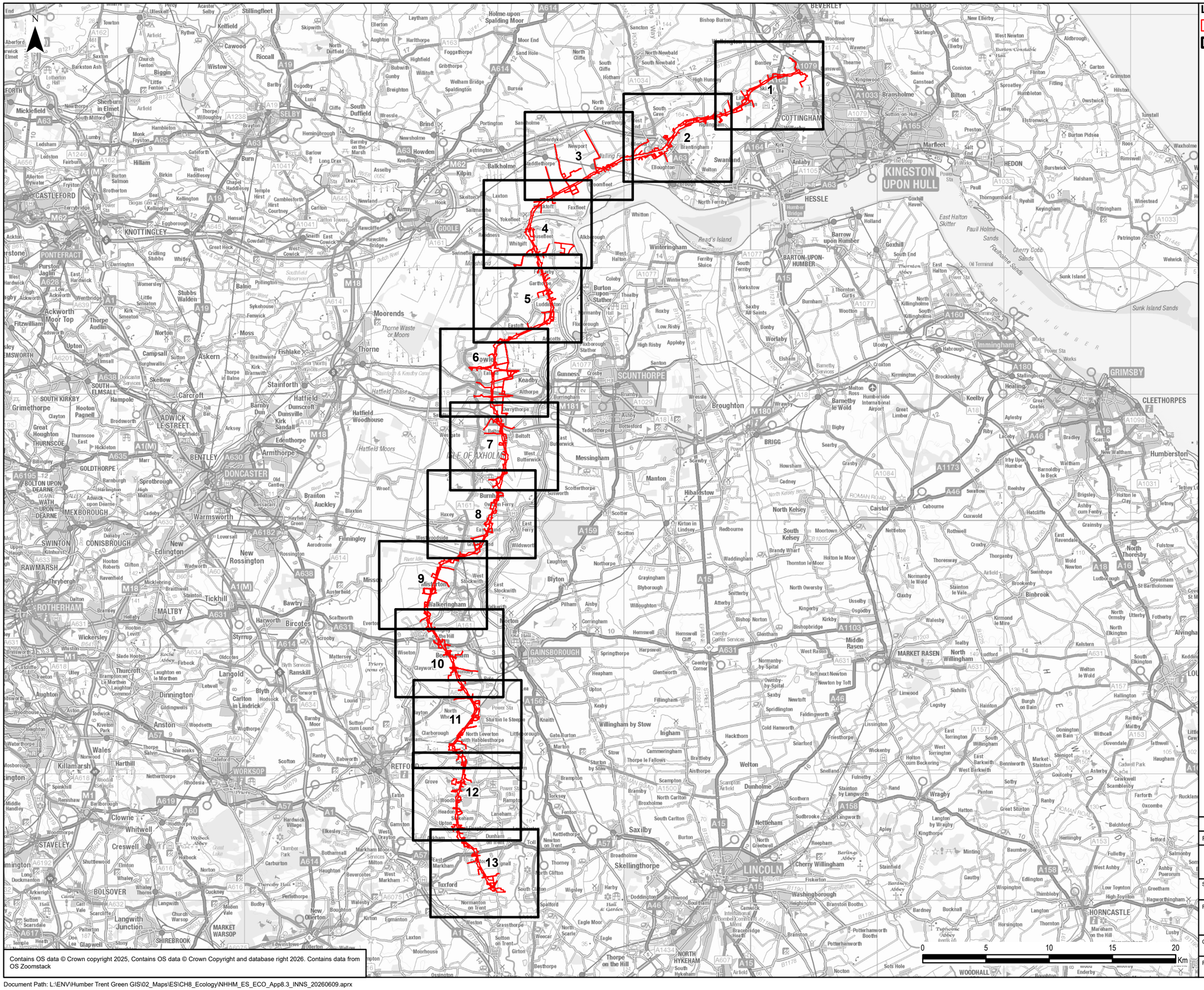
Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.1	1:10,000	A3	34 OF 34	0

0 0.25 0.5 0.75 1 Km

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Figure A8.3.2: Protected/notable plants and invasive non-native plant species



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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - RECORDS OF PROTECTED/NOTABLE PLANTS & INVASIVE NON-NATIVE PLANT SPECIES KEY PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
AMS	15/10/2026	JG	15/10/2026	NL	15/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.2	1:275,000	A3	KEY PLAN	0

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Legend

- Order Limits
- 50 m Field Survey Area
- 2 km Desk Study Area

National Grid Overhead Line

- 275 kV
- 400 kV

Project Design Details

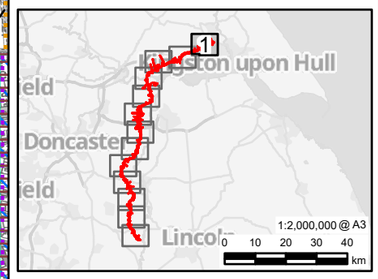
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Indicative New Gantry
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected

Desk Study Records

- Crosswort (*Cruciata laevipes*)
- Tormentil (*Potentilla erecta*)
- Ragged robin (*Silene flos-cuculi*)
- Cornflower (*Centaurea cyanus*)
- Canadian waterweed (*Elodea canadensis*)
- Giant hogweed (*Heracleum mantegazzianum*)
- Himalayan balsam (*Impatiens glandulifera*)
- Japanese knotweed (*Reynoutria japonica*)
- Japanese rose (*Rosa rugosa*)
- Montbretia (*Crocosmia aurea x pottsii = C. x crocosmiiflora*)
- Variegated yellow archangel (*Lamiastrum galeobdolon subsp. argentatum*)
- Wall cotoneaster (*Cotoneaster horizontalis*)
- Wild strawberry (*Fragaria vesca*)
- Bluebell (*Hyacinthoides non-scripta*)
- Rye brome (*Bromus secalinus*)

Field Survey Records

- Variegated yellow archangel (*Lamiastrum galeobdolon subsp. argentatum*)
- Bluebell (*Hyacinthoides non-scripta*
- Giant bellflower (*Campanula latifolia*)



Rev	Date	Description	GIS	Chk	App
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - PROTECTED/NOTABLE PLANTS & INVASIVE NON-NATIVE PLANT SPECIES

Creator:	Date:	Checker:	Date:	Approver:	Date:
AMS	15/10/2026	JG	15/10/2026	NL	15/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.2	1:25,000	A3	1 OF 13	0

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Notes: Due to the accuracy of the grid reference supplied some records are approximate. Any records with a grid reference accurate to a 100m square or less have been represented by a polygon rather than a point. The figure includes locations of protected/notable plants and INNPS identified during October 2023 - November 2025 and may not reflect what is on site at present or in the future. Protected/notable plants and INNPS may be present in locations in addition to those indicated.

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Legend

- Order Limits
- 50 m Field Survey Area
- 2 km Desk Study Area

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconductored
- Existing Overhead Line to be Dismantled
- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Existing Lattice Pylon To Be Removed

Desk Study Records

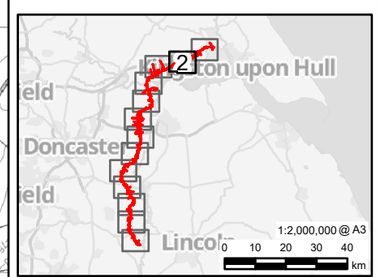
- Crosswort (*Cruciata laevipes*)
- Wild strawberry (*Fragaria vesca*)
- Field scabious (*Knautia arvensis*)
- Goldenrod (*Solidago virgaurea*)
- Cornflower (*Centaurea cyanus*)
- Common rock-rose (*Helianthemum nummularium*)
- Rye brome (*Bromus secalinus*)

Field Survey Records

- Himalayan balsam (*Impatiens glandulifera*)
- Montbretia (*Crocosmia x crocosmiiflora*)
- Nuttall's waterweed (*Elodea nuttallii*)
- Burnet-saxifrage (*Pimpinella saxifraga*)
- Bluebell (*Hyacinthoides non-scripta*
- Common restharrow (*Ononis repens*)
- Giant bellflower (*Campanula latifolia*)
- Harebell (*Campanula rotundifolia*)
- Salad burnet *Poterium sanguisorba*)
- Wild strawberry (*Fragaria vesca*)
- Wild thyme (*Thymus drucei*)
- Yellow bird's nest (*Hypopitys monotropa*)

Sheet 1 and 2

Sheet 2 and 3



0 0.5 1 1.5 2 Km

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Rev	Date	Description	GIS	Chk	App
0	15/10/2026	ENVIRONMENTAL STATEMENT	AMS	JG	NL

nationalgrid

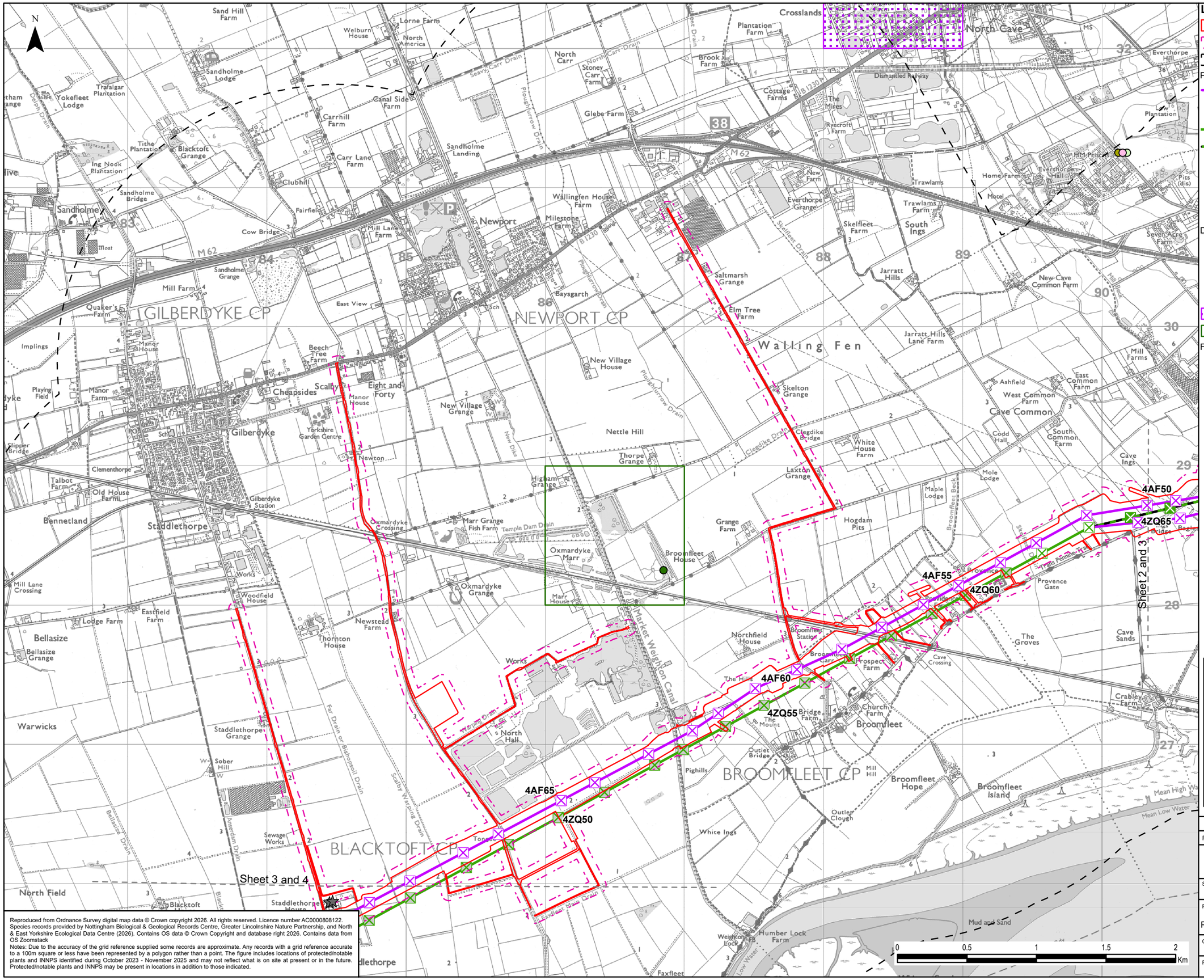
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - PROTECTED/NOTABLE PLANTS & INVASIVE NON-NATIVE PLANT SPECIES

Creator:	Date:	Checker:	Date:	Approver:	Date:
AMS	15/10/2026	JG	15/10/2026	NL	15/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
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Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\ES\CH8_Ecology\NHHM_ES_ECO_App8.3_INNS_20260609.aprx



Legend

- Order Limits
- 50 m Field Survey Area
- 2 km Desk Study Area

Project Design Details

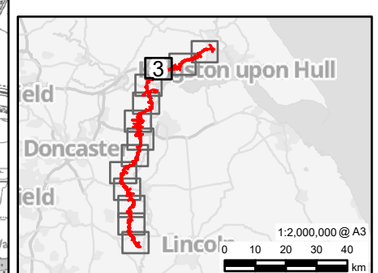
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Dismantled
- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Existing Lattice Pylon To Be Removed

Desk Study Records

- Crosswort (*Cruciata laevipes*)
- Field scabious (*Knautia arvensis*)
- Divided sedge (*Carex divisa*)
- Cornflower (*Centaurea cyanus*)
- Himalayan balsam (*Impatiens glandulifera*)
- Lesser spearwort (*Ranunculus flammula*)

Field Survey Records

- Black poplar (*Populus nigra subsp. betulifolia*)



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nationalgrid

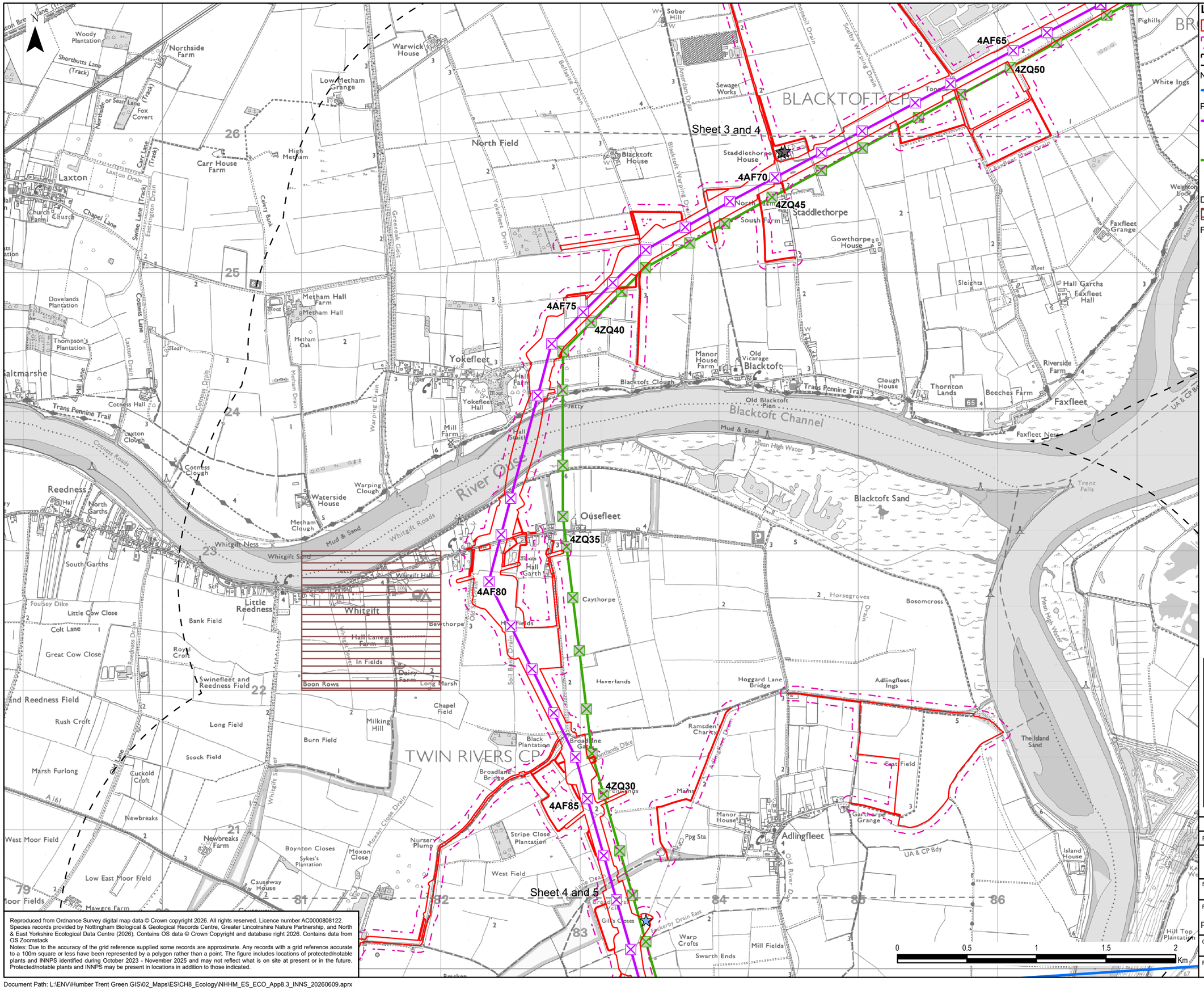
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - PROTECTED/NOTABLE PLANTS & INVASIVE NON-NATIVE PLANT SPECIES

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A8.3.2	1:25,000	A3	3 OF 13	0

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Legend

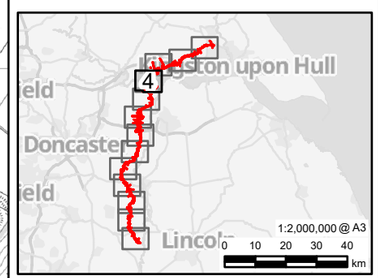
- Order Limits
- 50 m Field Survey Area
- 2 km Desk Study Area

National Grid Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected

Desk Study Records
- Wall cotoneaster (*Cotoneaster horizontalis*)

Field Survey Records
- Nuttall's waterweed (*Elodea nuttallii*)
- Black poplar (*Populus nigra subsp. betulifolia*



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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - PROTECTED/NOTABLE PLANTS & INVASIVE NON-NATIVE PLANT SPECIES

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Sheet 4 and 5

Sheet 5 and 6

4AF90
4ZQ25
4AF95
4ZQ20
4AF100
4ZQ15
4AF105
4AF110
4ZQ10

GARTHORPE AND FOCKERBY CP
EASTOFT CP
LUDDINGTON AND HALDENBY CP
AMCOTTS CP

Legend

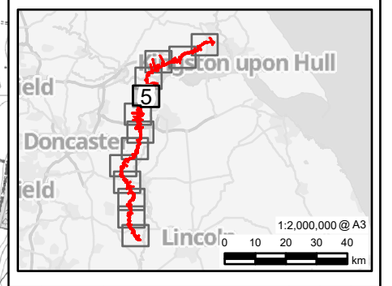
- Order Limits
- 50 m Field Survey Area
- 2 km Desk Study Area

National Grid Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected

Desk Study Records
- Burnt orchid (*Neotinea ustulata*)

Field Survey Records
- Nuttall's waterweed (*Elodea nuttallii*)



Rev	Date	Description	GIS	Chk	App
0	15/10/2026	ENVIRONMENTAL STATEMENT	AMS	JG	NL

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - PROTECTED/NOTABLE PLANTS & INVASIVE NON-NATIVE PLANT SPECIES

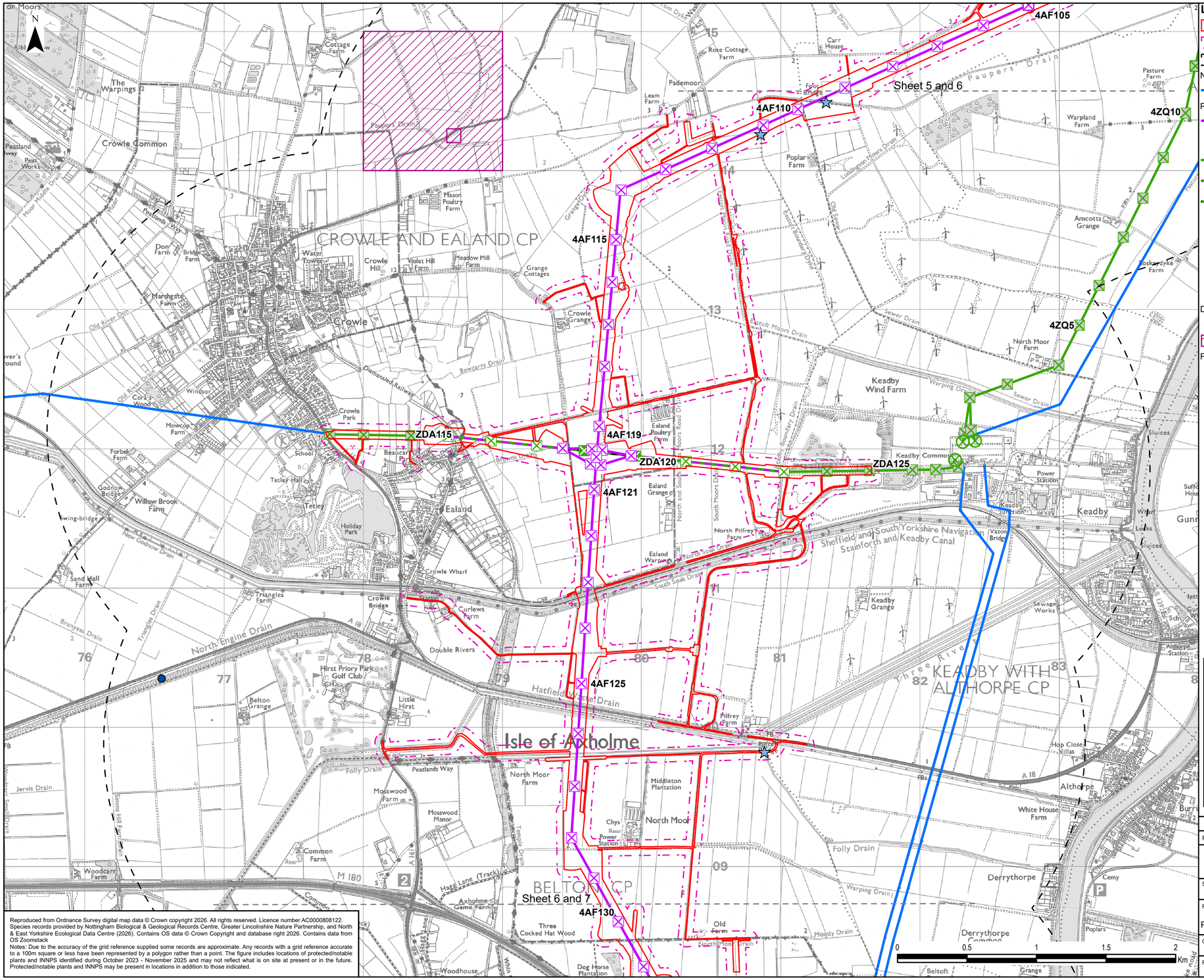
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AMS	15/10/2026	JG	15/10/2026	NL	15/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
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Legend

- Order Limits
- 50 m Field Survey Area
- 2 km Desk Study Area

National Grid Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconductored
- Existing Overhead Line to be Dismantled
- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Existing Gantry Not Affected
- Existing Lattice Pylon To Be Removed

Desk Study Records
- White water-lily (*Nymphaea alba*)
- Burnt orchid (*Neotinea ustulata*)

Field Survey Records
- Nuttall's waterweed (*Elodea nuttallii*)

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nationalgrid

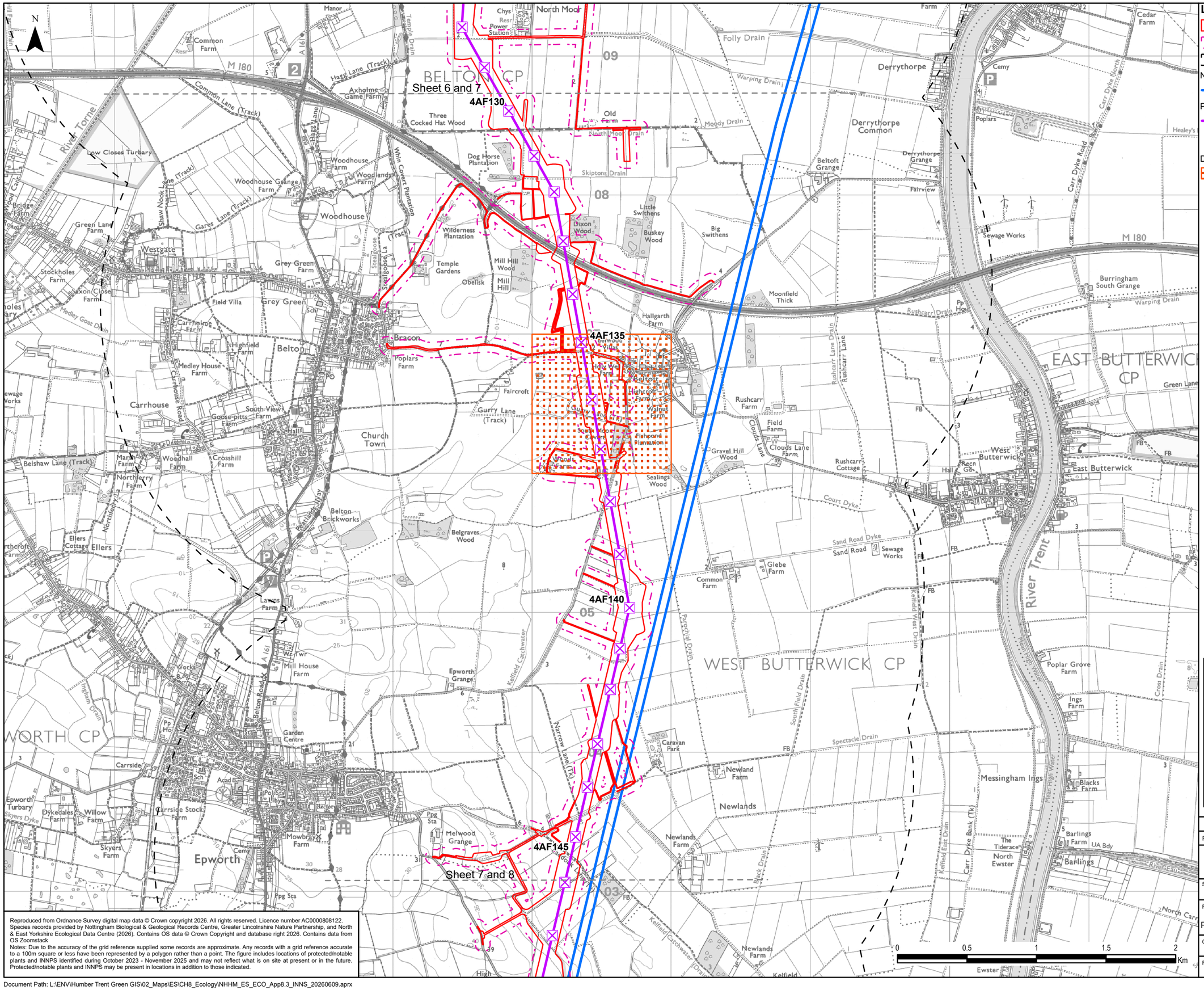
Scheme: NORTH HUMBER TO HIGH MARNHAM

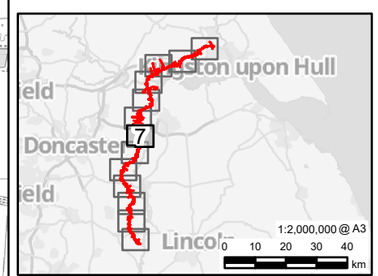
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nationalgrid

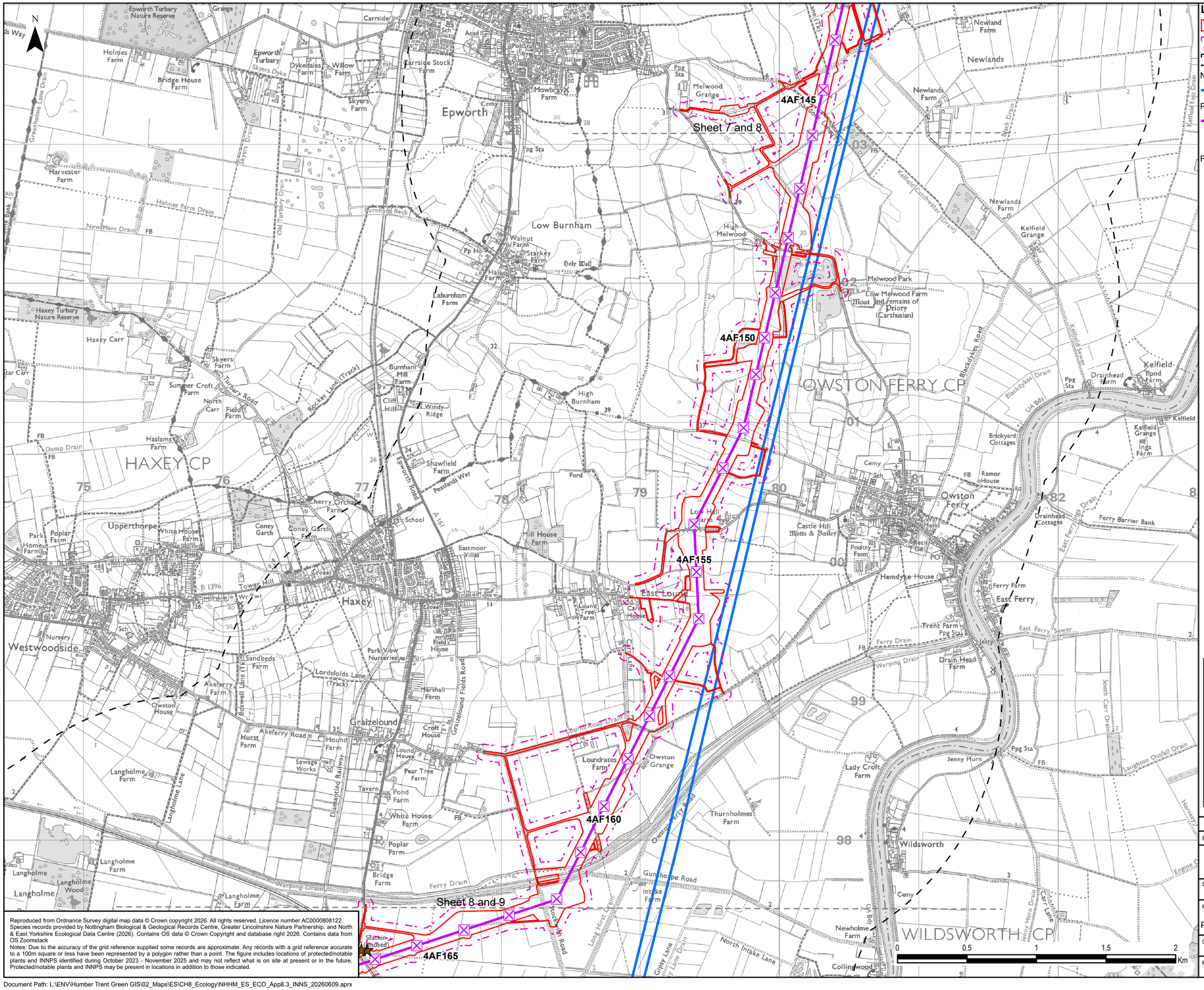
Scheme: NORTH HUMBER TO HIGH MARNHAM

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nationalgrid

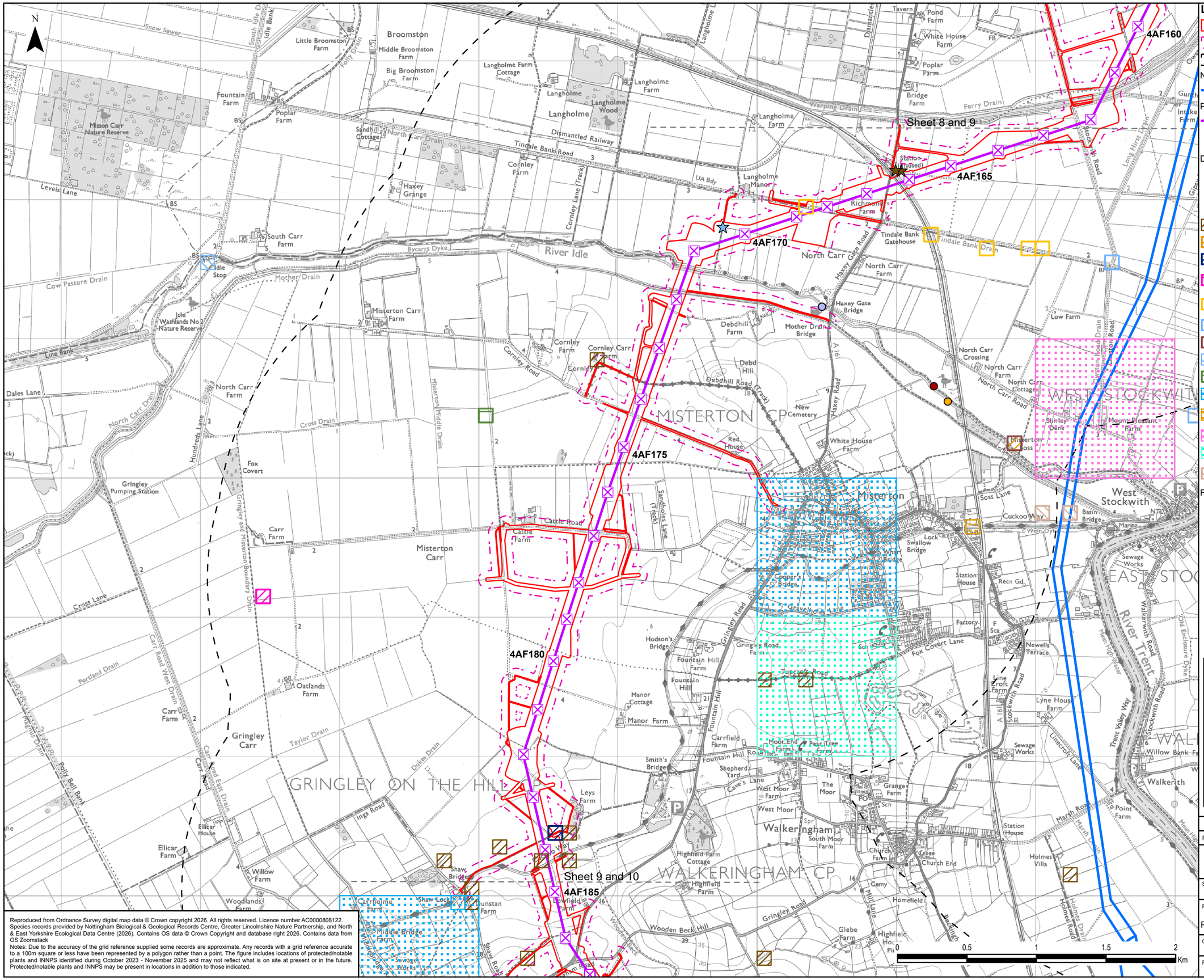
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Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\ES\CH8_Ecology\NHHM_ES_ECO_App8.3_INNS_20260609.aprx



Legend

- Order Limits
- 50 m Field Survey Area
- 2 km Desk Study Area

National Grid Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon

Desk Study Records
- Wild garlic (*Allium oleraceum*)
- Sand leek (*Allium scorodoprasum*)
- Water fern (*Azolla filiculoides*)
- Rye brome (*Bromus secalinus*)
- Wild lleek (*Allium scorodoprasum*)
- Dwarf spurge (*Euphorbia exigua*)
- Large-flowered hemp-nettle (*Galeopsis speciosa*)
- Opposite-leaved pondweed (*Groenlandia densa*)
- Water violet (*Hottonia palustris*)
- Elecampane (*Inula helenium*)
- Tasteless water-pepper (*Persicaria mitis*)
- Small pondweed (*Potamogeton berchtoldii*)
- Linton's pondweed (*Potamogeton × lintonii*)
- Brackish water-crowfoot (*Ranunculus baudotii*)
- Common valerian (*Valeriana officinalis*)
- Wild pansy (*Viola tricolor subsp. tricolor*)
- Hedge bindweed subspecies (*Calystegia sepium ssp. roseata*)

Field Survey Records
- Japanese knotweed (*Reynoutria japonica*)
- Nuttall's waterweed (*Elodea nuttallii*)

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nationalgrid

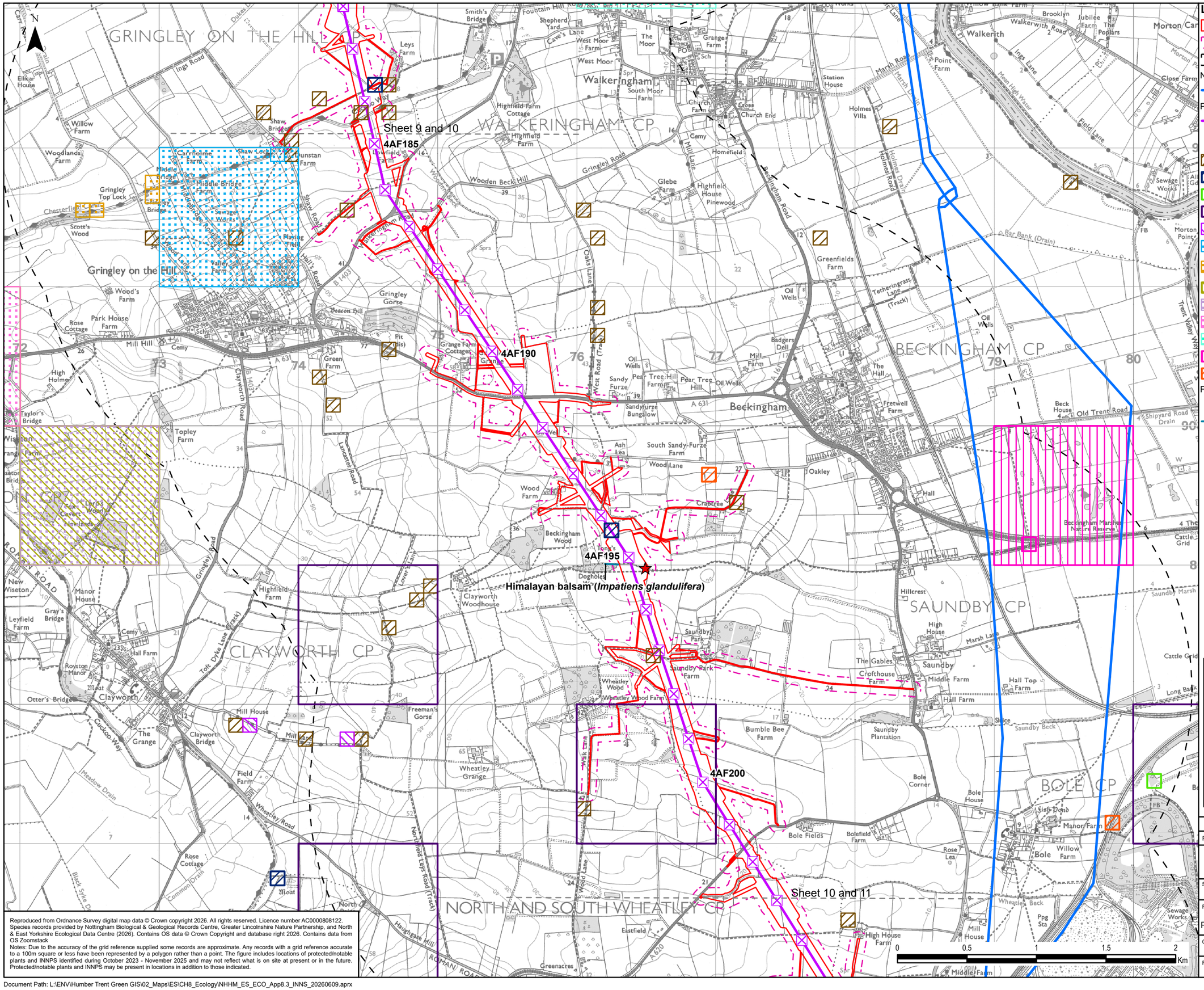
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - PROTECTED/NOTABLE PLANTS & INVASIVE NON-NATIVE PLANT SPECIES

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Legend

- Order Limits
- 50 m Field Survey Area
- 2 km Desk Study Area

National Grid Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Rye brome (*Bromus secalinus*)
- Dwarf spurge (*Euphorbia exigua*)
- Round-fruited rush (*Juncus compressus*)
- Field scabious (*Knautia arvensis*)
- Spiny restharrow (*Ononis spinosa*)
- Linton's pondweed (*Potamogeton × lintonii*)
- Brackish water-crowfoot (*Ranunculus baudotii*)
- Sanicle (*Sanicula europaea*)
- Large-leaved lime (*Tilia platyphyllos*)
- Common valerian (*Valeriana officinalis*)
- Wild pansy (*Viola tricolor subsp. tricolor*)
- Columbine (*Aquilegia vulgaris*)
- Common cudweed (*Filago vulgaris*)

Field Survey Records
- Himalayan balsam (*Impatiens glandulifera*)
- Himalayan balsam (*Impatiens glandulifera*)

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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - PROTECTED/NOTABLE PLANTS & INVASIVE NON-NATIVE PLANT SPECIES

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Himalayan balsam (*Impatiens glandulifera*)

4AF205

4AF210

4AF215

4AF220

4AF225

Sheet 10 and 11

Sheet 11 and 12

NORTH AND SOUTH WHEATLEY CP

WEST BURTON CP

STURTON LE STEEPLE CP

NORTH LEVERTON WITH HABBLESTHORPE CP

SOUTH LEVERTON CP

BOROUGH AND WELHAM CP

Legend

- Order Limits
- 50 m Field Survey Area
- 2 km Desk Study Area

National Grid Overhead Line

- 400 kV

Project Design Details

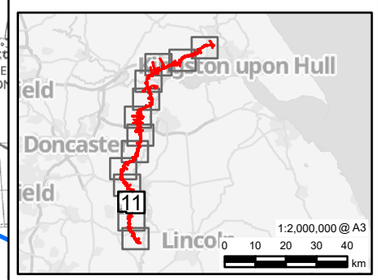
- Indicative New Overhead Line
- Indicative New Lattice Pylon

Desk Study Records

- Corn marigold (*Glebionis segetum*)
- Rye brome (*Bromus secalinus*)
- Green-winged orchid (*Anacamptis morio*)
- Quaking grass (*Briza media*)
- Blunt-fruited water-starwort (*Callitriche truncata*)
- Dwarf spurge (*Euphorbia exigua*)
- Opposite-leaved pondweed (*Groenlandia densa*)
- Round-fruited rush (*Juncus compressus*)
- Field scabious (*Knautia arvensis*)
- Hybrid water-cress (*Nasturtium × sterile*)
- Spiny restharrow (*Ononis spinosa*)
- Tasteless water-pepper (*Persicaria mitis*)
- Annual beard-grass (*Polypogon monspeliensis*)
- Large-leaved lime (*Tilia platyphyllos*)
- Wild pansy (*Viola tricolor subsp. tricolor*)
- Columbine (*Aquilegia vulgaris*)
- Stingless nettle (*Urtica dioica subsp. galeopsifolia*)
- Common cudweed (*Filago vulgaris*)

Field Survey Records

- Japanese knotweed (*Reynoutria japonica*)
- Himalayan balsam (*Impatiens glandulifera*)
- Himalayan balsam (*Impatiens glandulifera*)



Rev	Date	Description	GIS	Chk	App
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - PROTECTED/NOTABLE PLANTS & INVASIVE NON-NATIVE PLANT SPECIES

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Sheet 11 and 12

Sheet 12 and 13

4AF225

4AF230

4AF235

4AF240

SOUTH LEVERTON CP

GROVE CP

TRESWELL CP

RAMPTON AND WOODBECK CP

HEADON CUM UPTON CP

STOKEHAM CP

EAST DRAYTON CP

Legend

- Order Limits
- 50 m Field Survey Area
- 2 km Desk Study Area

National Grid Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon

- Rye brome (*Bromus secalinus*)
- Green-winged orchid (*Anacamptis morio*)
- Quaking grass (*Briza media*)
- Blunt-fruited water-starwort (*Callitriche truncata*)
- Chicory (*Cichorium intybus*)
- Dwarf spurge (*Euphorbia exigua*)
- Corn marigold (*Glebionis segetum*)
- Opposite-leaved pondweed (*Groenlandia densa*)
- Field scabious (*Knautia arvensis*)
- Wood sorrel (*Oxalis acetosella*)
- Greater butterfly-orchid (*Platanthera chlorantha*)
- Small pondweed (*Potamogeton berchtoldii*)
- Sanicle (*Sanicula europaea*)
- Large-leaved lime (*Tilia platyphyllos*)
- Wild pansy (*Viola tricolor subsp. tricolor*)
- Parrot's feather (*Myriophyllum aquaticum*)

Field Survey Records
- Giant knotweed (*Reynoutria sachalinensis*)
- Himalayan balsam (*Impatiens glandulifera*)

0 0.5 1 1.5 2 Km

1:2,000,000 @ A3
0 10 20 30 40 km

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Rev	Date	Description	GIS	Chk	App
0	15/10/2026	ENVIRONMENTAL STATEMENT	AMS	JG	NL

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - PROTECTED/NOTABLE PLANTS & INVASIVE NON-NATIVE PLANT SPECIES

Creator:	Date:	Checker:	Date:	Approver:	Date:
AMS	15/10/2026	JG	15/10/2026	NL	15/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.3.2	1:25,000	A3	12 OF 13	0

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4AF240
4AF245
4AF250
4AF255
4AF260
Sheet 12 and 13
East Drayton
Retford Road
Prospect Farm
Beast Wood
Sheepfold
Kirke's Plantation
Kirke's Ash Holt
Darlton Road
Greenacres
Mill Farm
Laneham Field Farm
The Limes
Whimpton Moor
Whimpton House
Field House Farm
Medieval Village of Whimpton (site of)
High Brecks Plantation
High Brecks Farm
Low Brecks Farm
Brecks Plantation
Old Moorgate (Track)
A57
Darlton
Low Farm
Grange Farm
Broad Gate
Kingshaugh Farm
Earthworks
DARLTON CP
Farhill Farm
Farhill Lane
RAGNALL CP
Vicarage Farm
America Farm
Woodcoates Road
Fledborough Beck
A6075
Amsyp
Sewage Works
Highfields Farm
Darlton Field
Darlton Grips
Lodge Farm
Majors Farm
Green Lane
Gibraltar Farm
North Farm
Top Farm
Wells Farm
Woodcoates
Medieval Village of Woodcoates (site of)
Far Road
FLEDBOROUGH CP
Eastfield Farm
Eastfield House
Goodhouses Farm
Crabtree Lane
Merryfields Farm
Babbington Springs Farm
Parks Cottage
Marnham Road
MARNHAM CP
Lodge Farm
Ruddingwood
Peter Barn
Polly Taylor's Road
Skegby
Skegby Manor
Power Station
Egmanton Crossing
Stone Road End Farm
Harvest Cottage
The Ruddings Farm
Thurbet
Stonehill Farm
Mount Pleasant
Mount Pleasant Farm
Normanton on Trent
Church Farm
Granary
Trentman Lodge
Holly Farm
The Grange
Holme Farm
Low Marnham
Church Farm
Marnham Holme
River Trent
Old Trent
Marshgate Farm
Clifton Hill
NORTH CLIFTON
SOUTH CLIFTON
Trent Lane
Trentholme
The Gables
Manor House
Fledborough House
Roman Fort
Ferry Lane
Marnham Ferry
Marnham Park
Marnham Lane
Marnham Mill
Marnham Holme
Marnham Meadow
Farm
Church
Chapel
Sch
Granary
Pond
Spr
Pp
FB
BS
W
0 0.5 1 1.5 2 Km

Legend

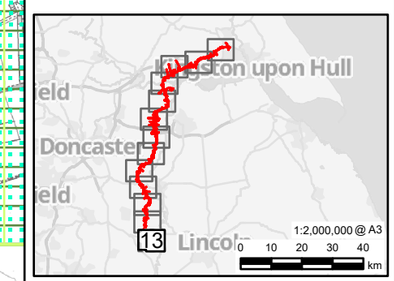
- Order Limits
- 50 m Field Survey Area
- 2 km Desk Study Area

National Grid Overhead Line
- 275 kV
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Indicative New Gantry

Desk Study Records
- Wall bedstraw (*Galium parisiense*)
- Small flowered buttercup (*Ranunculus parviflorus*)
- New Zealand pigmyweed (*Crassula helmsii*)
- Water fern (*Azolla filiculoides*)
- Rye brome (*Bromus secalinus*)
- Smooth cat's-ear (*Hypochaeris glabra*)
- Frogbit (*Hydrocharis morsus-ranae*)
- Field scabious (*Knautia arvensis*)
- Small cudweed (*Logfia minima*)
- Pennyroyal (*Mentha pulegium*)
- Tasteless water-pepper (*Persicaria mitis*)
- Small pondweed (*Potamogeton berchtoldii*)
- Wild pansy (*Viola tricolor subsp. tricolor*)
- Columbine (*Aquilegia vulgaris*)
- Dark mullein (*Verbascum nigrum*)
- Hoary cinquefoil (*Potentilla argentea*)
- Parrot's feather (*Myriophyllum aquaticum*)

Field Survey Records
- Himalayan balsam (*Impatiens glandulifera*)
- Nuttall's waterweed (*Elodea nuttallii*)



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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - PROTECTED/NOTABLE PLANTS & INVASIVE NON-NATIVE PLANT SPECIES

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