The Great Grid Upgrade

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Executive Summary

National Grid Electricity Transmission plc (National Grid) is developing the North Humber to High Marnham Project (the Project), a proposed new 400 kV electricity transmission connection between East Riding of Yorkshire and Nottinghamshire. The Project would reinforce the national electricity transmission network, enabling the connection of new low carbon energy generation and supporting the delivery of the UK Government's clean power and net zero ambitions. The Project is a Nationally Significant Infrastructure Project (NSIP) for which development consent is being sought through a Development Consent Order (DCO) under the Planning Act 2008 (HM Government, 2008). It is recognised as a critical reinforcement to provide the network capacity required to meet future electricity demand and support the transition to a low-carbon energy system.

As part of the Project, a baseline tree survey compliant with BS 5837:2012 – 'Trees in Relation to Design, Demolition and Construction Recommendations' (British Standards Institution, 2012) (hereafter referred to as BS 5837:2012) was carried out between July 2024 and February 2026 across the Order Limits of the Project. The extents of the Order Limits are shown within Figure 1 Arboricultural Impacts Plan in Appendix D.

The baseline tree survey aimed to record all trees within the arboricultural study area, which comprised the Order Limits plus a 30 metre (m) buffer[1]. The information obtained as part of the baseline tree survey forms the foundation of the Arboricultural Impact Assessment presented within this report. It should be noted that the iterative design process has sought to avoid and minimise impact to trees wherever reasonably practicable.

The assessment identifies and evaluates the likely effects of the Project on individual trees, groups of trees, and woodlands within the 30 m arboricultural study area (hereafter referred to as the 'study area'). The assessment has been undertaken in accordance with relevant legislation, policy and guidance, with reference to BS 5837:2012, and is informed by a combination of desk-based study and the extensive field surveys carried out by National Grid's qualified arboriculturists.

The Project design set out in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** and shown in **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**, **Application Document 6.4.F3 Environmental Statement Figure 4.3 Temporary Construction Works**, and **Application Document 6.4.F4 Environmental Statement Figure 4.4 Third Party Works** has been used as the basis for the Arboricultural Impact Assessment (AIA).

The AIA has determined the following:

- The development proposals require 30 individual high and moderate quality (A and B Category) trees to be removed. It will also result in the removal of 7,958 m² of Category A and B tree group canopy cover and 38,271 m² of Category A and B woodland canopy cover.

[1] Due to the iterative nature of the design process, surveys were undertaken in line with the Order Limits as defined at each date of survey, resulting in survey data being collected for areas which are now beyond the 30 m study area buffer. These data are not considered in the assessment as the arboricultural study area used within this report reflects the Order Limits at time of submission.

- The development proposals require the removal of 65,632 m^2 low quality (C Category)[2] canopy cover.
- Forty-one individual Category A and B trees are identified as Affected Managed. 6,823 m^2 of Category A and B tree group canopy cover, and 14,009 m^2 Category A and B woodland canopy cover are identified as Affected Managed by construction activities associated with the Project.
- 59,650 m^2 of C Category canopy cover will be Affected Managed as a result of the Project.
- Forty-three individual Category A and B trees are identified as Potentially Affected as a result of the Project. 19,614 m^2 of Category A and B group canopy cover and 30,509 m^2 of Category A and B woodland canopy cover has also been assessed as Potentially Affected as a result of the Project.
- 77,999 m^2 C Category canopy cover is identified as Potentially Affected as a result of the Project.
- Thirty-two Tree Preservation Orders (TPOs), including TPOs for individual trees and tree groups, and woodlands are located within the study area. One TPO woodland will require partial removal, TPO/1998/0028 near pylon 4AF137 on Route Section D. Additionally, two TPO groups will require partial removal, TPO group B000481 near pylon 4AF1243 and TPO group B000082 near pylon 4AF174 both of which are in Route Section E. Within TPO group B000481 one individual tree will be removed, eight individual trees are affected managed, and 13 individual trees are potentially affected. Within TPO group B000082 two individual trees will be removed, two individual trees are affected managed, and three individual trees are potentially affected. Within these two tree groups in total three individual trees will be removed, ten individual trees are affected managed, and 16 individual trees are potentially affected. Tree Preservation Order data provided by Lincolnshire County Council also identifies a TPO for an individual tree, TPO/2006/0098, in Route Section C. This is identified on **Figure 1 Arboricultural Impacts Plan** in Appendix D as being located directly on the line of a panelled access to pylons ZDA113 and ZDA114, and therefore in a location which would require its removal. However, surveys have confirmed that this tree no longer exists, and consequently TPO/2006/0098 is shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D but no assessment of impacts is made. Neither of the two designated ancient woodlands listed on Natural England's Ancient Woodland Inventory[3] (Natural England, 2026) (Natural England, 2026) and identified on the Multi-Agency Geographic Information for the Countryside (MAGIC) website (Department for Environment, Food and Rural Affairs, 2026) (Treswell Wood, and Tongs and Dogholes Wood) will be affected as a result of the Project.
- There are three conservation areas within the study area. No trees, tree groups, or woodlands within conservation areas will be impacted to facilitate the Project.
- Seven traditional orchards are located within the study area (Department for Environment, Food and Rural Affairs, 2026). Six are not affected by the Project, but one (reference number PHID47763691_038581753, located in Route Section E near pylon 4AF205), is

[2] Due to the agreed scoping method of surveying, canopy areas of Category C (low quality) and Category U (very low quality) trees have not been separated in the report, and are discussed as Category C to represent a worst case.

[3] 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.

assessed as Potentially Affected should the Limits of Deviation (LoD) for the proposed overhead line be used at its location. The extent to which this traditional orchard may be affected is shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D.

A desk-based review of the Woodland Trust's Ancient Tree Inventory (ATI) (Woodland Trust, n.d.) indicates that no trees within the arboricultural study area are listed as ancient or veteran. Baseline surveys carried out by qualified arboriculturists identified 37 veteran trees and one group of veteran trees (hereafter referred to as a 'veteran group') within the arboricultural study area. No veteran trees require removal to facilitate the Project, based upon the Project design used as the basis of the assessment presented in this AIA. However, in the event that flexibility of the LoD are used to the south in its location, T4 in Route Section A (illustrated on **Figure 1 Arboricultural Impacts Plan** in Appendix D) may require removal in order to construct a safe and reliable power grid. Should removal of T4 be required, commitment to a replacement planting ratio of 30:1 is set out in **Application Document 7.3 Register of Environmental Actions and Commitments**. Based upon the Project design set out in **Application Document 6.4 Chapter 4 Description of the Project**, 11 veteran trees and one veteran group have been identified for management/pruning in order to construct the Project, including to provide the necessary electrical clearances required to construct and maintain a safe and reliable power grid. A further ten[4] veteran trees may require management should the flexibility afforded by the LoD be used in their locations during detailed design, as detailed in Table 3.3 of Appendix E Veteran Tree Assessment Methodology.

Where tree loss or works within the vicinity of retained trees are unavoidable, mitigation measures including a 3:1 replacement planting ratio for individual trees and individual trees within small groups, are secured through relevant commitments within **Application Document 7.3 Register of Environmental Actions and Commitments** (and in section 8.3 of **Application Document 7.8 Outline Landscape and Ecology Management Plan**.

The replacement planting ratios, as set out within **Application Document 7.3 Register of Environmental Actions and Commitments**, are presented in Table ES 1 below.

Table ES 1 – Replacement planting ratio commitment

Tree category	Replanting ratio	Register of Environmental Actions and Commitments Reference
Veteran trees	30:1	ARB17
All other individual trees and individual trees within small groups.	3:1	ARB18

[4] Noting that this includes T44 and T46 which are currently managed by the local authority due to their proximity to the highway. The requirement for interim management by the Project will be dependent on their current management cycle rather than flexibility afforded by the LoD.

1. Introduction

1.1 Overview

1.1.1 National Grid Electricity Transmission plc (National Grid) owns and maintains the national high voltage electricity transmission network throughout England and Wales.

1.1.2 The transmission network connects the power from where it is generated to the regional distribution network operators who then supply businesses and homes.

1.1.3 National Grid holds the Transmission Licence for England and Wales, and its statutory duty is to develop and maintain an efficient, coordinated and economical system of electricity transmission and to facilitate competition in the generation and supply of electricity, as set out in the Electricity Act 1989 (HM Government, 1989).

1.1.4 National Grid has developed plans for the North Humber to High Marnham Project (the Project). The Project would support the UK government's net zero target through the connection of new low carbon energy generation and by reinforcing the transmission network.

1.1.5 The Project would establish a new 400 kilovolt (kV) transmission connection approximately 90 kilometres (km) in length between a new substation to be built in the vicinity of Birkhill Wood, located to the north of Hull near Creyke Beck in the East Riding of Yorkshire, and a new substation at High Marnham in Nottinghamshire.

1.1.6 The reinforcement is needed because the existing transmission network, even with current upgrading, will not have sufficient capacity for the new renewable energy (a substantial proportion of which would be generated by offshore wind) that is expected to connect to the network over the next 10 years and beyond. Completion of the Project, together with other new reinforcements across the country, will meet this future energy transmission demand across the UK.

1.1.7 The Project is a Nationally Significant Infrastructure Project (NSIP), and National Grid is seeking development consent under the Planning Act 2008 (HM Government, 2008). NSIPs require a type of planning permission known as a Development Consent Order (DCO). Instead of applying to the local authority for planning permission, the developer must apply to the Secretary of State (SoS) via the Planning Inspectorate for a DCO.

1.1.8 National Grid has submitted an application for development consent to the Planning Inspectorate for the Project. The Examining Authority (consisting of one or more examining inspectors), after a period of public examination, will make its recommendation to the Secretary of State for Energy Security and Net Zero, who in turn will decide on whether development consent should be granted.

1.1.9 The Project has been identified as being critical to delivering a network which supports the clean power pathways for 2030 delivery.

1.2 Purpose, Structure and Scope of the Report

Purpose

1.2.1 The purpose of this Arboricultural Impact Assessment (AIA) is to identify all trees, tree groups and woodlands which have the potential to be affected by the Project, and to assess the impact of the Project on those arboricultural features.

1.2.2 This report should be considered alongside the following application documents:

- **Application Document 7.3 Register of Environmental Actions and Commitments**; and
- **Application Document 7.8 Outline Landscape and Ecology Management Plan**.

Structure

1.2.3 This report is structured as follows:

- Section 1: Introduction;
- Section 2: Relevant Legislation, Policy and Guidance;
- Section 3: Assessment Approach and Methods;
- Section 4: Arboricultural Survey Findings;
- Section 5: Arboricultural Impact Assessment;
- Section 6: Summary and Conclusions;
- Appendix A General Arboricultural Principles;
- Appendix B Desk-based Study Results;
- Appendix C Tree Survey Schedule;
- Appendix D Arboricultural Impacts Plan; and
- Appendix E Veteran Tree Assessment Methodology.

Scope

1.2.4 The scope and level of detail included within this AIA is proportionate to what is necessary for a thorough assessment of arboricultural features within the study area, to support the application for development consent.

1.2.5 In this report, arboricultural features are defined as individual trees, tree groups, or woodlands. For clarity, tree groups and woodlands are made up of multiple trees and are shown on figures as polygon shapes (a closed shape defined by a sequence of connected x, y coordinate pairs) or polylines (a series of connected line segments defined by a sequence of points called vertices). Individual trees are shown on figures as circular points (A and B Category trees) or stars (veteran trees). C grade trees, tree groups, and woodlands are shown spatially on **Figure 1 Arboricultural Impacts Plan** in Appendix D by tree canopy data.

1.2.6 The information provided within this report deviates from the recommendations of BS 5837:2012 (British Standards Institution, 2012) due to tree measurement data being excluded from the Category C feature dataset. This deviation from BS 5837:2012 was proposed due to the scale of the Project and was set out in **Application Document 6.5.A1 Environmental Statement Appendix 5.1 Environmental Impact Assessment Scoping Report**.

1.2.7 The scope of this document includes the following items:

- General arboricultural principles which should be considered throughout the duration of the Project, provided in Appendix A;
- Desk-based study to determine baseline information on arboricultural statutory designations, provided in Appendix B;
- Results of a BS 5837:2012 walkover survey included in section 4 of this report;
- Arboricultural Impact Assessment within section 5 of this report;
- Tree Survey Schedule in Appendix C;
- **Figure 1 Arboricultural Impacts Plan** in Appendix D;
- Tree protection measures are included in **Application Document 7.8 Outline Landscape and Ecology Management Plan**; and
- A Veteran Tree Assessment Methodology is included within Appendix E.

1.2.8 As described in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** and shown on **Application Document 6.1.F1 Environmental Statement Figure 1.1 Project Location and Route Sections**, the Project has been sub-divided into six geographical sections for reader accessibility. These 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.

1.2.9 This report presents the findings in relation to these Route Sections, which are shown in **Figure 1 Arboricultural Impacts Plan** in Appendix D.

1.2.10 Impacts are defined as any individual tree, tree group, or woodland which has the potential to be impacted by the Project. As set out in **Application Document 7.8 Outline Landscape and Ecology Management Plan**, all construction elements likely to impact trees will be addressed within an Arboricultural Method Statement (AMS) containing a Tree Protection Plan as secured under the appropriate Requirement (Retention and removal of trees, woodland and hedgerows) of **Application Document 3.1 Draft Development Consent Order**. Detailed stage-specific AMSs are to be produced following detailed design and shared with the relevant local planning authority. The detailed stage-specific AMSs will detail specified methodologies to limit, mitigate or manage the impact on trees.

1.2.11 Given the stage of the Project (in the absence of detailed design), the impacts assessed within the AIA are preliminary in nature and represent a realistic worst-case scenario based on the Project design set out in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** and shown in **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**, **Application Document 6.4.F3 Environmental Statement Figure 4.3 Temporary Construction Works** and **Application Document 6.4.F4 Environmental Statement Figure 4.4 Third Party Works**.

Limitations and Assumptions

1.2.12 The arboricultural field survey has only been undertaken on land within National Grid's ownership, public land or areas where formal access has been arranged.

1.2.13 Where access constraints prevented the collection of tree survey data, the spatial position of the tree has been inferred based on the visible canopy extent recorded from aerial imagery and Light Detection and Ranging (LiDAR) datasets. Tree stems were plotted centrally to canopy data and should be regarded as approximate only.

1.2.14 Stem locations recorded during baseline surveys have been plotted with reference to aerial imagery and may have a margin of error of up to 5 m.

1.2.15 Canopy spreads were not recorded for features assessed as low (Category C) or very low (Category U) quality. Where available, the height of the tree has been used to calculate the estimated canopy spread and the predicted canopy of the tree. For trees that have not had a height attributed to them, the assumption is the tree is 15 m in height and has a canopy spread of 7 m.

1.2.16 During the field surveys, only defects visible from the ground have been noted and each individual feature may not have been inspected closely due to access difficulties, the presence of dense ivy, other vegetation or safety constraints. Safety-related features have not been recorded on the basis that the arboricultural features would be subject to a normal programme of tree hazard assessment, and only those features which materially affect the quality of the feature or pose a real and imminent safety concern have been recorded.

1.2.17 Of the approximately 31 km^2 of land within the study area, approximately 2 km^2 was not surveyed due to access limitations. Where possible, in these locations, surveys were conducted from adjacent public land; however, arboricultural measurements in these locations have been estimated. Where access was unavailable and surveys were unable to be conducted from adjacent land, canopies have been plotted based on LiDAR data and stems plotted centrally to the canopy spread. Locations of the parcels where access was restricted are shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D.

1.2.18 Additionally, surveys were not undertaken in relation to the Functionally Linked Land (FLL) mitigation area (as shown on **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**) as the design change/inclusion of this area occurred after completion of surveys (further details of the FLL offsetting are contained in **Application Document 5.2 Habitats Regulations Assessment Report**). However, a specific commitment in **Application Document 7.3 Register of Environmental Actions and Commitments** commits to the retention of all trees within the FLL mitigation area, and furthermore Project activities in this area (changes to agricultural land management practices to enhance habitat for bird species) are not anticipated to impact arboricultural features. Similarly, a new water vole mitigation area and associated access were included in the above design

change, although this area was not subject to arboricultural survey, site photographs and ecological field survey data have been used to determine details of the trees within this area. As the access to the water vole mitigation area is frequently used by farm machinery of greater or equivalent size to that which would be used by the Project during the creation and management of the water vole mitigation, no impacts to the roadside vegetation along the access are anticipated. A single immature sycamore is present within the water vole mitigation area itself and has been assessed as Category C. To represent a worst case, it is assumed that this tree will be removed to facilitate the mitigation works. Three other minor extensions to the Order Limits (to facilitate PRoW diversions) were also introduced following completion of the arboricultural surveys, however addition of these very small areas of land did not introduce new arboricultural features to the study area. As the trees within the FLL mitigation area and water vole mitigation area were not surveyed, and as, with the exception of the single sycamore within the water vole mitigation area, they will not be impacted by the Project they are not shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D, their canopy extents have not been calculated, and they are not further considered within this AIA.

1.2.19 Records held on the Ancient Tree Inventory (ATI) (Woodland Trust, n.d.) are collected on a voluntary basis; therefore, it is not necessarily a comprehensive or up-to-date dataset, and the absence of records does not demonstrate the absence of ancient and veteran trees but may simply indicate a gap in recording coverage. Additionally, it can be prone to spatial inaccuracies during recording.

1.2.20 An error is noted in the TPO data provided by North Lincolnshire Council. As shown on sheet 80 of **Figure 1 Arboricultural Impacts Plan** in Appendix D and in Table 3.1 of Appendix B, there are two instances of two trees being assigned the same TPO identifier code. There are duplicate entries for codes TPO/2006/0097 and TPO/2006/0098, in Route Section C.

1.2.21 While arboricultural surveys are not seasonally limited, it is the case that certain pests and diseases may be more or less evident at different times of the year. This is especially true of certain wood-decaying fungi such as the Giant Polypore (*Meripilus giganteus*) where fruiting bodies are short lived, and the early stages of root decay may not result in other identifiable symptoms. Field survey data are therefore based upon observations made at the time of the site visit and may be subject to change should further or more detailed inspections be undertaken.

1.2.22 The canopies of two veteran trees (T44 and T46, both white willow – *Salix alba*) are currently managed by the relevant local authority due to their proximity to the highway (Ings Lane, northwest of pylon 4AF47). Depending on their current management cycle and the Project's requirements, there is a possibility that additional/interim canopy management may be required to be undertake by the Project to avoid accidental damage by traffic. These trees are shown/considered as potentially affected on the Arboricultural Impact Plan (in Appendix D to **Application Document 7.14 Arboricultural Impact Assessment**), and considered as such in this AIA, noting that although the requirement for management of these trees would not be dictated due to use of LoD, for ease they are included within the count of trees which may require management should the flexibility afforded by the LoD be used. There is a commitment with **Application Document 7.3 Register of Environmental Actions and Commitments** that should these works be undertaken by the Project, they will be agreed in advance with the ArbCoW and would be akin to the degree of management currently undertaken. Hence, the Project would not result in impacts beyond those already routinely experienced by these trees.

Reference Abbreviations

1.2.23 The following reference abbreviations are used throughout this document:

- T – Tree;
- G – Group; and
- W – Woodland.

2. Relevant Legislation, Policy and Guidance

2.1 Introduction

2.1.1 This section sets out the legislation, planning policy and guidance that is relevant to the AIA. Full details regarding the Project's compliance with relevant national, regional and local planning policy are provided within **Application Document 5.5 Planning Statement** submitted as part of the application for development consent.

2.2 Legislation

Environment Act 2021

2.2.1 The Environment Act 2021 (HM Government, 2021) provides a post European Union (EU) Exit legal framework for environmental governance and makes provision for improvements to the natural environment. It requires the SoS to set long-term targets (15-year minimum) for biodiversity. This Act (HM Government, 2021) also brings in a 'Duty to Consult' requirement for the local planning authority before felling of street trees. There are exemptions to this requirement which should be established during the design development process.

Town and Country Planning Act 1990 and The Town and Country Planning (Tree Preservation) (England) Regulations 2012

2.2.2 The Town and Country Planning Act 1990 (HM Government, 1990) (Part VIII, Chapter 1) and the Town and Country Planning (Tree Preservation) (England) Regulations 2012 (HM Government, 2012) are relevant as they can inform the development of mitigation proposals, in the event any individual trees, groups of trees or woodlands that are protected by a Tree Preservation Order have to be removed.

Natural Environment and Rural Communities Act 2006

2.2.3 Section 40 of the Natural Environment and Rural Communities Act 2006 (HM Government, 2006) sets out the 'general biodiversity objective', the furtherance of which a local planning authority must consider. The general biodiversity objective is the conservation and enhancement of biodiversity in England through the exercise of functions. In respect of the general biodiversity objective, the Secretary of State must, in particular, have regard to the United Nations Environmental Programme Convention on Biological Diversity of 1992. Section 41 of the Natural Environment and Rural Communities Act 2006 (HM Government, 2006) requires the SoS to publish and maintain a list of habitats and species that are of Principal Importance for the purpose of conserving biodiversity and are regarded as conservation priorities under the UK Post-2010 Biodiversity Framework (Joint Nature Conservation Committee on behalf of the Four Countries' Biodiversity Group, 2024).

Forestry Act 1967

2.2.4 The felling of trees is typically controlled by the Forestry Act 1967 (HM Government, 1967). The DCO provides the statutory powers required to deliver the authorised development, including the removal and management of trees and hedgerows where necessary for construction, operation or maintenance activities. These powers are set out within **Application Document 3.1 Draft Development Consent Order** and may disapply the need for certain separate consents, such as those relating to Tree Preservation Orders or hedgerow removal, subject to the provisions and safeguards contained within the DCO.

2.3 National Policy

National Policy Statements

2.3.1 National Policy Statements (NPSs) set out the primary policy tests against which the application for a Development Consent Order (DCO) for the Project will be considered.

2.3.2 Table 2.1 and Table 2.2 provide details of the elements of the Overarching NPS for Energy (EN-1) (Department for Energy Security & Net Zero, 2025) referred to hereafter as NPS EN-1, and NPS for Electricity Networks Infrastructure (EN-5) (Department for Energy Security & Net Zero, 2025) referred to hereafter as NPS EN-5. Both policies are relevant to this AIA.

Table 2.1 – NPS EN-1 sections relevant to the AIA

NPS EN-1 section	Policy context	Project compliance with policy
Paragraph 5.4.15	This paragraph defines ancient woodland, ancient trees and veteran trees as irreplaceable habitats which '*would be technically very difficult (or take a very significant time) to restore, recreate or replace once destroyed, taking into account their age, uniqueness, species diversity or rarity*.'	This definition is accepted and used within this document.
Paragraph 5.4.16	This paragraph states '*Ancient woodland is a valuable biodiversity resource both for its diversity of species and for its longevity as woodland'* and *'Ancient and veteran trees found outside ancient woodland are also particularly valuable*.' With reference to the Keepers of Time (Department for Environment, Food and Rural Affairs, 2022), this paragraph also states '*the government's policy for ancient and native trees and woodlands in England sets out the government's commitment*	**Application Document 6.3 Environmental Statement Chapter 3 Main Alternatives Considered** sets out the alternative routes explored and chosen to avoid impacting areas of ancient woodland and veteran trees. Appendix E Veteran Tree Assessment Methodology details the mitigation strategies for maintaining veteran trees identified within the study area, as well as suggesting remediation options to enhance existing veteran trees.

NPS EN-1 section	Policy context	Project compliance with policy
	to maintain and enhance the existing area of ancient woodland, maintain and enhance the existing resource of known ancient and veteran trees, excluding natural losses from disease and death, and to increase the percentage of ancient woodland in active management.'	
Paragraph 5.4.33	This paragraph states '*Applicants should include measures to mitigate fully the direct and indirect effects of development on ancient woodland, ancient and veteran trees or other irreplaceable habitats during both construction and operational phases*.'	**Application Document 6.3 Environmental Statement Chapter 3 Main Alternatives Considered** sets out the alternative routes explored and chosen to avoid impacting areas of ancient woodland and veteran trees. Appendix E Veteran Tree Assessment Methodology details the mitigation strategies for veteran trees identified within the study area.
Paragraph 5.4.55	This paragraph states '*The Secretary of State should not grant development consent for any development that would result in the loss or deterioration of any irreplaceable habitats, including ancient woodland, and ancient and veteran trees unless there are wholly exceptional reasons and a suitable compensation strategy exists*.'	**Application Document 6.3 Environmental Statement Chapter 3 Main Alternatives Considered** sets out the alternative routes explored and chosen to avoid impacting areas of ancient woodland or veteran trees. Appendix E Veteran Tree Assessment Methodology details the mitigation strategies for veteran trees identified within the study area. A compensation strategy for the replacement of veteran tree T4, should the LoD be used in its location, is detailed in **Application Document 7.3 Register of Environmental Actions and Commitments**.

Table 2.2 – NPS EN-5 sections relevant to the AIA

NPS EN-5 section	Policy context	Project compliance with policy
Paragraphs 2.9.16 to 2.9.17	These paragraphs within NPS EN-5 outline design principles of the Holford Rules (developed by Lord Holford in 1959 and updated in the 1990s) for routeing overhead transmission lines to maximise the screening benefit of trees.	**Application Document 6.3 Environmental Statement Chapter 3 Main Alternatives Considered** sets out the alternative routes explored and chosen to avoid impacting high amenity areas such as ancient woodlands and veteran trees.

National Planning Policy Framework

2.3.3 The National Planning Policy Framework (NPPF) (Ministry of Housing, Communities & Local Government, 2026) sets out national planning policies that reflect priorities of the Government for the operation of the planning system and the economic, social, and environmental aspects of the development and use of land. The NPPF (Ministry of Housing, Communities & Local Government, 2026) has a strong emphasis on sustainable development, with a presumption in favour of such development. Although the NPSs set out the primary policy tests for the Project, the NPPF (Ministry of Housing, Communities & Local Government, 2026) has the potential to be considered important and relevant to the consideration of the Project by the Secretary of State (SoS).

2.3.4 The August 2026 revision to the NPPF introduced changes related to decision making and planning surrounding the natural environment and environmental considerations. These changes include the addition of national decision-making policies in Chapter 19: Conserving and enhancing the natural environment. Policy N3: Trees in new development, outlines a shift toward further integration and long-term approaches to planning, design implementation and management of trees within Projects. Policy N3 outlines the need for earlier involvement, coordination and consultation between environmental disciplines, specialists and officers within LPAs, developers and ensuring the incorporation of robust tree establishment and management commitments within project documentation, in this instance, **Application Document 7.8 Outline Landscape and Ecology Management Plan** and **Application Document 7.3 Register of Environmental Actions and Commitments**.

2.3.5 Table 2.3 provides details of the elements of the NPPF (Ministry of Housing, Communities & Local Government, 2026) that relate to the AIA.

Table 2.3 – NPPF sections relevant to the AIA

NPPF section	Policy context	Project compliance with policy
Chapter 14: Policy DP3	'2. *To create well-designed places, development proposals should also reflect relevant aspects of the following principles, as appropriate to the nature of the development and its location:* *…* *c. Nature: incorporate and/or connect to a network of high quality, accessible, multifunctional green infrastructure to provide opportunities for recreation and healthy living, strengthen habitats, improve climate change resilience and improve air and water quality. This should include maintaining and enhancing tree cover and incorporating sustainable drainage systems…*'	**Application Document 7.8 Outline Landscape and Ecology Management Plan** sets out the overarching aim of the Project to retain vegetation wherever practicable in accordance with **Application Document 7.3 Register of Environmental Actions and Commitments**. Where reasonably practicable, construction elements (such as working areas, accesses, laydown and temporary construction compounds) will be kept to the minimum area required and micro-sited to avoid impacts on ecologically important features such as trees. Overseen and informed by the ECoW and/or ArbCoW sensitive habitats will be demarcated to

NPPF section	Policy context	Project compliance with policy
		ensure the Main Works Contractor(s) protect as much vegetation as possible. **Application Document 6.3 Environmental Statement Chapter 3 Main Alternatives Considered** sets out the alternative routes explored and chosen to avoid impacting areas of ancient woodland or veteran trees All construction elements likely to impact on retained trees will be addressed within an Arboricultural Method Statement (AMS) containing a Tree Protection Plan to be produced following detailed design shared with the relevant local planning authorities, as secured through the applicable Requirement in **Application Document 3.1 Draft Development Consent Order**. Production of the AMSs is also committed to within **Application Document 7.3 Register of Environmental Actions and Commitments**.
Chapter 19: Policy N2	'*1. To contribute positively to the natural environment, and support nature's recovery, development proposals should:* *…* *d. Conserve and enhance existing natural features of visual, historic or nature conservation value (such as established trees and hedgerows) where possible; and use appropriate landscaping to help create a well-designed place and integrate the development into its surroundings.*'	**Application Document 7.8 Outline Landscape and Ecology Management Plan** sets out the overarching aim of the Project to retain vegetation wherever practicable in accordance with **Application Document 7.3 Register of Environmental Actions and Commitments**. Where reasonably practicable, construction elements (such as working areas, accesses, laydown and temporary construction compounds) will be kept to the minimum area required and micro-sited to avoid impacts on ecologically important features such as trees. Overseen and informed by the ECoW and/or ArbCoW sensitive habitats will be demarcated to ensure the Main Works Contractor(s) protect as much vegetation as possible. **Application Document 6.3 Environmental Statement Chapter 3 Main Alternatives Considered** sets out the alternative routes explored and chosen to avoid impacting areas of ancient woodland or veteran trees

NPPF section	Policy context	Project compliance with policy
		All construction elements likely to impact on retained trees will be addressed within an Arboricultural Method Statement (AMS) including a Tree Protection Plan to be produced following detailed design and shared with the relevant local planning authorities, as secured through the applicable Requirement in **Application Document 3.1 Draft Development Consent Order**. Production of the AMSs is also committed to within **Application Document 7.3 Register of Environmental Actions and Commitments**.
Chapter 19: Policy N3	'*1. In recognition of the benefits which trees can provide for biodiversity, climate change mitigation and adaptation, and the character and quality of the built environment, development proposals should:* *…* *b. Ensure that the selection of species and their placement is compatible with highways and other infrastructure requirements and the needs of different users of public spaces; and will be effective in helping to adapt to the effects of climate change and delivering other environmental benefits. Suitable arboricultural advice should be sought, and proposals discussed with highways and trees officers where necessary, so that the right trees are planted in the right places; and* *c. Make provision for the long-term maintenance of both existing and newly-planted trees which form part of the development.*'	**Application Document 7.8 Outline Landscape and Ecology Management Plan** sets out the overarching aim of the Project to retain vegetation wherever practicable in accordance with **Application Document 7.3 Register of Environmental Actions and Commitments**. Where reasonably practicable, construction elements (such as working areas, accesses, laydown and temporary construction compounds) will be kept to the minimum area required and micro-sited to avoid impacts on ecologically important features such as trees. Overseen and informed by the ECoW and/or ArbCoW sensitive habitats will be demarcated to ensure the Main Works Contractor(s) protect as much vegetation as possible. **Application Document 6.3 Environmental Statement Chapter 3 Main Alternatives Considered** sets out the alternative routes explored and chosen to avoid impacting areas of ancient woodland or veteran trees All construction elements likely to impact on retained trees will be addressed within an Arboricultural Method Statement (AMS) including a Tree Protection Plan to be produced following detailed design and shared with the relevant local planning authorities, as secured through the

NPPF section	Policy context	Project compliance with policy
		applicable Requirement in **Application Document 3.1 Draft Development Consent Order**. Production of the AMSs is also committed to within **Application Document 7.3 Register of Environmental Actions and Commitments**.
Chapter 19: Policy N6, Paragraph 2	The NPPF states that: '*Irrespective of a site's status in nature conservation terms, development proposals which would entail the loss or deterioration of irreplaceable habitats (such as ancient woodland and ancient or veteran trees) should be refused, unless there are wholly exceptional reasons*[62] *and a suitable compensation strategy exists.*' Footnote 62 within the wording of Policy N6 Paragraph 2 above reads as follows: '*For example, infrastructure projects (including nationally significant infrastructure projects, orders under the Transport and Works Act and hybrid bills), where the public benefit would clearly outweigh the loss or deterioration of the relevant habitats.*'	**Application Document 6.3 Environmental Statement Chapter 3 Main Alternatives Considered** sets out the alternative routes explored and chosen to avoid impacting areas of ancient woodland or veteran trees. Appendix E Veteran Tree Assessment Methodology details the mitigation strategies for veteran trees identified within the study area. A compensation strategy for the replacement of veteran tree T4, should the LoD be used in its location, is detailed in **Application Document 7.3 Register of Environmental Actions and Commitments**.

Keepers of Time: Ancient and Native Woodland and Trees Policy in England

2.3.6 Keepers of Time: Ancient and Native Woodland and Trees Policy in England (Department for Environment, Food and Rural Affairs, 2022) sets out the government's expectation that ancient woodland and ancient and veteran trees should be recognised as irreplaceable habitats and afforded a high level of protection throughout the planning and development process. The policy focuses on promoting the avoidance of loss or deterioration wherever possible and, where impacts cannot be avoided, seeks measures to minimise harm and support the long-term conservation and restoration of these habitats.

2.3.7 Table 2.4 provides details of the elements of the Keepers of Time (Department for Environment, Food and Rural Affairs, 2022) that relate to the AIA.

Table 2.4 – Keepers of Time sections relevant to the AIA

Policy section	Policy context
Page 9, Figure 1	The Keepers of Time policy outlines a hierarchy of value for native trees and woodlands, defining the following as irreplaceable habitat: • Ancient woodland including: – Ancient semi-natural woodland; – Plantations on ancient woodland sites; – Ancient wood pasture and parkland; and – Infilled ancient wood pasture and parkland. • Ancient and veteran trees.
Page 13	*'All ancient woodland and ancient and veteran trees are irreplaceable, regardless of whether they are present on the Ancient Woodland Inventory or Ancient Tree Inventory'.*
Page 24/Page 25	Ancient and veteran trees: '*These can be individual trees or groups of trees. They are found in ancient woodlands and as trees outside woods.* *Ancient trees are exceptionally valuable for their biodiversity, cultural and heritage value. They are irreplaceable habitats that can:* • *be of a great age relative to others of the same species* • *be large, depending on species, site and management history* • *have significant decay features such as hollowing and a crown structure typical of old age* • *have evidence of past use and management (such as pollarding)* *Veteran trees may not be very old, but they have significant decay features, such as branch death and hollowing. These features contribute to their biodiversity, cultural and heritage value. They are also considered irreplaceable habitat.* *All ancient trees are veteran trees, but not all veteran trees are ancient*.'

2.4 Local Policy

2.4.1 This AIA considers the following local policies set out in Table 2.5.

Table 2.5 – Local policy relevant to the AIA

Local authority plan/strategy	Summary of relevant policies relating to arboriculture	Project compliance with policy
North Lincolnshire Local Development Framework Core Strategy Adopted June 2011 (North Lincolnshire Council, June 2011)	**Policy CS16** requires '*…the protection of trees, hedgerows and historic landscape to be specified where appropriate*'.	Tree protection measures are set out in section 6.3 of **Application Document 7.8 Outline Landscape and Ecology Management Plan**.

Local authority plan/strategy	Summary of relevant policies relating to arboriculture	Project compliance with policy
East Riding Local Plan Update 2020-2039 (East Riding of Yorkshire Council, 2021)	**Policy S1: Sustainable Development** states '*When considering development proposals, the Council will take a positive approach that reflects the three overarching objectives of sustainable development as set out in paragraph 8 of the National Planning Policy Framework, economic, social and environmental, whilst taking in to account local circumstances. It will work proactively with applicants to find solutions that mean proposals can be approved wherever possible, and to secure development supporting the Council's Vision and Objectives for the Local Plan and the other documents which make up the development plan.*' **Policy C1: Providing infrastructure and facilities** states '*Proposals for new and/or improved infrastructure and facilities will be supported where they enhance the quality and range of services and facilities or facilitate delivery of new development needs.* *New development will be supported where it is adequately serviced by infrastructure and facilities. Where necessary, the phasing of new development will be linked to the delivery of new or improved infrastructure and facilities.* *Developer contributions will be sought from major developments or minor developments that are part of a wider development site where the contributions are required to meet the need for new and/or improved infrastructure and facilities including, but not limited to, those listed in the sub area policies and the Infrastructure Delivery Plan would mitigate the development's impact on the wider environment and the community; and would not render the proposed development as economically unviable*'. **ENV5 – Enhancing Biodiversity and Geodiversity** states '*Development proposals have potential to effect*	**Application Document 7.8 Outline Landscape and Ecology Management Plan** sets out details of reinstatement and replacement planting to restore and enhance existing tree cover/habitats.

Local authority plan/strategy	Summary of relevant policies relating to arboriculture	Project compliance with policy
	biodiversity in a number of ways. These include but are not exclusive to: • *Direct habitat loss;* • *Disturbance and displacement of wildlife;* • *Impact on breeding/migrating birds;* • *Damage to habitats due to pollution and nutrient deposition; and* • *Impact on hydrology and water*'.	
Bassetlaw Local Plan 2020-2038 (Bassetlaw District Council, 2024)	**Policy ST37: Green and Blue Infrastructure** states: '*The connectivity, quality, multifunctionality, biodiversity and amenity value of the green and blue infrastructure network will be enhanced, extended and managed through:* • *protecting and enhancing ancient and mature woodland and hedgerows, and providing for tree planting to secure recreational benefits and/or to aid climate change mitigation*'. **Policy ST39: Trees, Woodlands and Hedgerows** states: '*The Council will protect existing trees, woodland and hedgerows and secure additional planting that increases canopy cover in the interests of biodiversity, amenity and climate change adaptation by:* • *giving consideration to trees and hedgerows both on individual merit as well as their contribution to amenity and interaction as part of a group within the broader landscape setting;* • *resisting the loss or deterioration of ancient woodland and ancient or veteran trees unless there are wholly exceptional reasons and a suitable compensation strategy exists;* • *seeking from major development, provision for new trees or an equivalent financial contribution to help mitigate the impacts of climate change in accordance with **Policy ST48**.*'	**Application Document 6.3 Environmental Statement Chapter 3 Main Alternatives Considered** sets out the alternative routes explored and chosen to avoid impacting areas of ancient woodland and veteran trees. Appendix E Veteran Tree Assessment Methodology details the mitigation strategies for veteran trees identified within the arboricultural study area. Tree protection measures are set out in section 6.3 of **Application Document 7.8 Outline Landscape and Ecology Management Plan**. **Application Document 7.8 Outline Landscape and Ecology Management Plan** also sets out details of reinstatement and replacement planting to restore and enhance existing tree cover/habitats.

Local authority plan/strategy	Summary of relevant policies relating to arboriculture	Project compliance with policy
	'*Where development would adversely affect trees or hedgerows the application must be accompanied by:* • *details of protective measures to be put in place during the development to ensure the health and safety of each specimen and hedgerow to be retained;* • *an avoidance and mitigation strategy to include replacement planting for specimens of at least equal amenity and ecological value of a local provenance; and* • *a detailed management plan providing details of maintenance arrangements for 10 years'.*	
Trees and Development Supplementary Planning Document (Bassetlaw District Council, 2026)	Provides guidance on the protection and management of trees during the planning, design and development process, and builds upon the policies set out in the Bassetlaw Local Plan, in particular Policy ST39 set out above.	Tree protection measures are set out in section 6.3 of **Application Document 7.8 Outline Landscape and Ecology Management Plan**.
Bassetlaw Design Code (Bassetlaw District Council, 2026)	**NLO-6: Loss or damage to existing vegetation** states: • '*New development must not result in the loss or damage of trees and hedges that have significant arboricultural, ecological, and amenity value. Existing trees and hedges are retained wherever possible, incorporating them into the new layout and landscape design, for example hedges used for rear boundaries or trees as focal points of open spaces.* • *If removal of trees is unavoidable, mitigation must involve replanting native trees/hedges of equal or greater value on-site or nearby*'.	Tree protection measures are set out in section 6.3 of **Application Document 7.8 Outline Landscape and Ecology Management Plan**. **Application Document 7.8 Outline Landscape and Ecology Management Plan** also sets out details of reinstatement and replacement planting to restore and enhance existing tree cover/habitats.

2.5 Relevant Guidance

BS5 837:2012 Trees in Relation to Design, Demolition and Construction – Recommendations

2.5.1 BS 5837:2012 (British Standards Institution, 2012) gives recommendations and guidance on the relationship between trees and design, demolition and construction processes. It sets out principles and procedures to be applied to achieve a harmonious and sustainable relationship between trees and development and is applicable regardless of planning permission requirements. BS 5837:2012 has been used within this AIA to set out the survey methodology and tree categorisation methodology and provides the calculations for the definition of Root Protection Areas (RPA).

BS 3998:2010 Tree Work – Recommendations

2.5.2 BS 3998:2010 (British Standards Institution, 2010) sets out best-practice recommendations for carrying out practical tree work. The standard provides guidance on safe, appropriate and sustainable tree management, including pruning, felling and protection of the rooting environment with the aim of maintaining tree health, structural integrity and public safety. Where pruning work has been deemed necessary to facilitate the development and safe operation of the Project, BS 3998:2010 sets out the appropriate methodology to minimise impacts to retained trees and ensure arboricultural best practice is followed.

3. Assessment Approach and Methods

3.1 Introduction

3.1.1 This section sets out the overarching approach and methodology which has been used in preparing the information in this AIA.

3.2 Arboricultural Study Area

3.2.1 The arboricultural study area has been informed by the extent of the Order Limits plus a 30 m buffer. While BS 5837:2012 (British Standards Institution, 2012) caps the RPA radius at 15 m, the study area of up to 30 m has been applied to capture a greater radius for veteran tree RPAs.

3.3 Baseline Data Gathering and Forecasting Methods

Data Sources

3.3.1 Baseline data collection has been undertaken with reference to BS 5837:2012 (British Standards Institution, 2012) and has been undertaken using the following key information sources:

- An arboricultural desk-based study, referencing publicly available documents provided by local planning authorities, and other public entities (presented in Appendix B). The sources used for baseline data collection are:
  - North Lincolnshire Council;
  - East Riding of Yorkshire Council;
  - Bassetlaw District Council;
  - Multi-Agency Geographic Information for the Countryside (MAGIC) Map (Department for Environment, Food and Rural Affairs, 2026);
  - Ancient Tree Inventory (Woodland Trust, n.d.); and
  - Priority Habitats Inventory (England) (Natural England, n.d.).
- A review of Project-commissioned high-resolution aerial imagery captured during a fixed-wing aircraft flyover survey in 2023.
- A baseline survey of arboricultural features within the study area that fall into the following categories:
  - Woodlands;
  - Potential veteran/ancient trees;
  - Tree Preservation Order (TPO) trees; and
  - Noteworthy trees and tree groups. (noteworthy trees are defined as Category A and B trees as set out in Table 1 of BS 5837:2012 (British Standards Institution, 2012)).

Desk-Based Study

3.3.2 Desk-based study was undertaken between April 2024 and May 2026. The desk-based study has considered specific statutory and non-statutory arboricultural constraints that exist within the study area. The desk-based study as set out in Appendix B was undertaken to establish the following statutory and non-statutory arboricultural constraints:

- Tree Preservation Orders:
  - Local planning authorities are responsible for implementing any legal controls imposed through TPOs within their respective locales within the study area. Locations of TPOs within the study area are shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D.
  - Tree Preservation Orders within the study area are listed in Table 3.1 of Appendix B Desk-based Study Results.
  - Tree Preservation Orders data have been supplied by East Riding of Yorkshire Council, North Lincolnshire Council, and Bassetlaw District Council[5].
  - The TPO data supplied by Bassetlaw District Council for use in this AIA and Figure 1 Arboricultural Impacts Plan in Appendix D represent the best available data as of 5 May 2026, with the understanding that the Council is actively updating and refining its TPO records. As a result, this dataset may not yet reflect all recent changes or newly designated areas. Tree Preservation Order records should therefore be reviewed prior to commencement of construction activities.
- Conservation areas:
  - Local planning authorities are responsible for implementing any legal controls imposed through conservation areas within their respective locales in the study area. The locations of conservation areas within the study area are shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D.
  - Conservation areas within the study area are listed in Table 4.1 of Appendix B.
- Ancient woodland:
  - The locations of designated ancient woodland within the study area were obtained from the MAGIC website (Department for Environment, Food and Rural Affairs, 2026). The underlying data supporting this are taken from Natural England's Ancient Woodland Inventory and the accompanying revised completed counties dataset (Natural England, 2026) (Natural England, 2026). Locations of designated ancient woodlands within the study area are shown on **Figure 1 Arboricultural Impacts** Plan in Appendix D.
  - Areas designated as ancient woodlands are listed in Table 2.1 of Appendix B.
- Ancient and veteran trees:
  - The potential presence of ancient and veteran trees within the study area was investigated using the Woodland Trust's ATI dataset (Woodland Trust, n.d.),

[5] The Project is located within the administrative boundaries of East Riding of Yorkshire Council, North Lincolnshire Council, and Bassetlaw District Council, which forms part of the two tier local government authority area of Nottinghamshire, where Nottinghamshire County Council is the upper tier authority.

which was provided by the Woodland Trust in May 2026. The inventory is not a comprehensive list and does not necessarily represent an up-to-date record of all ancient or veteran trees due to its reliance on volunteer submissions.

  - The identification of ancient and veteran trees through the desk-based study is discussed in section 5 of Appendix B.

- Traditional orchards:
  - The potential presence of traditional orchards within the study area was checked using the Priority Habitats Inventory (England) (Natural England, n.d.).
  - Traditional orchards are listed in the UK Biodiversity Action Plan (BAP) (Joint Nature Conservation Committee, 1994) as they support significant biodiversity and contribute to heritage and landscape character.
  - A list of traditional orchards is presented in Table 6.1 of Appendix B.

Baseline Survey

3.3.3 Field surveys were undertaken between July 2024 and February 2026 to record all trees within the study area at that time[6], which comprised the Order Limits plus a 30 m buffer. As discussed under the 'Limitations and Assumptions' heading in section 1.2, due to a design change following completion of the arboricultural surveys, survey data are not available for the whole of the study area. However, the baseline data remain a robust basis for the assessment.

3.3.4 Arboricultural surveyors undertaking the field surveys recorded several parameters for Category A and B trees, tree groups and woodlands throughout the study area, including but not limited to:

- Tree species;
- Tree height;
- Crown spread;
- Diameter at breast height (DBH)/Stem diameter; and
- General observations and comments.

3.3.5 The field surveys were undertaken in accordance with the following criteria:

- Arboricultural features were recorded as tree groups where this was deemed appropriate. Tree groups were recorded on the basis that they formed distinct arboricultural features either aerodynamically, visually, or because they contain trees of similar cultural and biodiversity value. Wooded areas were recorded for larger expanses of trees and included features which would otherwise be referred to as copses, spinneys or shelterbelts.
- The trees have been visually inspected from ground level only.

[6] Due to the iterative nature of the design process, surveys were undertaken in line with the Order Limits as defined at each date of survey, resulting in survey data being collected for areas which are now beyond the 30 m study area buffer. These data are not considered in the assessment as the arboricultural study area used within this report reflects the Order Limits at time of submission.

- No tissue samples were taken nor was any internal investigation of subject trees undertaken.
- Tree heights and crown spreads have been estimated to the nearest 1 m.
- Notes have been recorded where they related to the quality or situation of the arboricultural feature.
- Management recommendations have been provided where work is necessary for the abatement of a hazard which presents a high level of risk to persons or property. Such management recommendations have been communicated to the tree owner/manager separately from this report for reasons of safety.
- Stem diameters have been measured in accordance with Annex C of BS 5837:2012 (British Standards Institution, 2012).
- Diameters of single-stem trees have been measured at 1.5 m above ground level or where reasonably practicable. The diameters of the commonly encountered stems have been measured as per the guidance. The combined stem diameters for multi-stemmed trees have been calculated in accordance with paragraph 4.6.1 of BS 5837:2012 (British Standards Institution, 2012).
- Where access constraints prevented the collection of tree survey data, the spatial position of the tree has been inferred based on the visible canopy extent recorded from aerial imagery and LiDAR datasets. Tree stems were plotted centrally to canopy data and should be regarded as approximate only.

3.3.6 By default, RPAs are calculated as an area equivalent to a circle with a radius 12 times the stem diameter and are capped at a distance of 15 m, unless the tree has been surveyed as a veteran, in which case the RPA is calculated at 15 times the stem diameter or 5 m beyond the canopy spread (whichever is greater) and is not capped.

Quality Assessment

3.3.7 The quality of arboricultural features has been determined in accordance with Table 1 of BS 5837:2012 (British Standards Institution, 2012), which is reproduced as Table 3.1 below. The purpose of the quality assessment is to enable informed decisions to be made regarding the removal and retention of arboricultural features in the context of development. For an arboricultural feature to be included within a particular category it should accord with the description provided.

3.3.8 The quality of each surveyed tree/tree group is defined based on its sub-category. Sub-categories carry equal weight, do not influence retention priority and are simply included to indicate the primary value associated with each surveyed item. Sub-categories 1, 2, and 3 are intended to reflect arboricultural, landscape and cultural values respectively.

3.3.9 The quality and sub-category assigned to each arboricultural feature are identified within Appendix C.

Table 3.1 – Cascade chart for Tree Quality Assessment (taken from BS 5837:2012)

Category and Definition	Criteria (including subcategories where appropriate)		
Trees unsuitable for retention (see Note)			
Category U Those in such condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	• Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other Category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) • Trees that are dead or showing signs of significant, immediate, and irreversible overall decline • Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low-quality trees supressing adjacent trees of better quality NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see **4.5.7** [of BS 5837:2012][7].		
Trees to be considered for retention			
	1 Mainly arboricultural qualities	**2 Mainly landscape qualities**	**3 Mainly cultural values, including conservation**
Category A **Trees of high quality** with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups of formal or semi-formal arboricultural features (e.g. the dominant and/or principle trees within an avenue).	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)
Category B **Trees of moderate quality** with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to	Trees with material conservation or other cultural value

[7] Paragraph 4.5.7 of BS 5837:2012 specifies that trees otherwise classified as Category U can be upgraded if they possess notable conservation, heritage, or landscape value. This upgrade applies even for short-term retention, provided any safety risks can be managed.

Category and Definition	Criteria (including subcategories where appropriate)		
	that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	make little visual contribution to the wider locality	
Category C **Trees of low quality** with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value

4. Arboricultural Survey Findings

4.1 Ancient and Veteran Trees

4.1.1 The Woodland Trust's ATI dataset (Woodland Trust, n.d.) has been used as a preliminary desk-based screening tool to identify potential ancient, veteran and notable trees within the study area.

4.1.2 As noted in section 1.2, the Woodland Trust's ATI dataset relies on volunteer submissions, and therefore is not comprehensive or necessarily up to date. This dataset has therefore been consulted to provide a general understanding of the baseline within the study area and has been used alongside the field assessments and verification carried out for the Project.

4.1.3 Ancient and veteran trees are recognised within NPS EN-1 (see section 2) as irreplaceable habitats of exceptional value, forming a key consideration within the assessment and underpinning the approach set out in Appendix E.

4.1.4 Policy frameworks, including the Keepers of Time (Department for Environment, Food and Rural Affairs, 2022), and the NPPF (Ministry of Housing, Communities & Local Government, 2026), emphasise the protection of ancient and veteran trees and establish presumptions against loss or deterioration unless exceptional circumstances apply. These policies and wider industry guidance provide an approach reliant on qualifying veteran features and contextual size thresholds alongside professional judgement.

4.1.5 Further information relating to veteran trees is provided in Appendix E. This outlines the principles for the protection of identified veteran trees within or in proximity to the Order Limits.

4.2 Desk-Based Study Findings

4.2.1 The desk-based study identified the following within the study area:

- Review of local planning authority data identified 32 TPOs, including TPOs both for individual trees and tree groups, and woodlands;
- Review of the MAGIC website identified two designated ancient woodlands, Treswell Wood and Tongs and Dogholes Wood, both of which are located in Route Section E (Department for Environment, Food and Rural Affairs, 2026);
- Review of local planning authority data identified three conservation areas;
- Review of the Woodland Trust's ATI dataset (Woodland Trust, n.d.) identified no veteran, ancient or notable trees; and
- Review of the Priority Habitats Inventory (England) (Natural England, n.d.) identified seven traditional orchards.

4.2.2 The findings above are presented on **Figure 1 Arboricultural Impacts Plan** in Appendix D.

4.2.3 Further details of desk-based study findings relating to designated ancient woodland, ancient and veteran trees, conservation areas, TPOs, and traditional orchards are outlined within Appendix B.

4.3 Field Survey Findings

4.3.1 The findings of the field surveys outlined in this section reflect the categorisation methodology of trees, tree groups and woodlands outlined within BS 5837:2012 (British Standards Institution, 2012). Please refer to section 3 for a summary of the classification methodology within BS 5837:2012.

4.3.2 A total of 389 arboricultural high and moderate (Category A and B) quality features were recorded within the study area during the field surveys. These comprised 274 individual trees, 104 tree groups, and 11 woodlands (these include arboricultural features i.e. groups of trees, veteran trees, ancient woodland, and TPOs).
Of the features recorded, 47 are assessed as high quality and 342 as moderate quality features.

4.3.3 No ancient trees were identified through field surveys.

4.3.4 A total of 37 veteran trees and one veteran tree group (AIA ref G41) were identified within the study area through field surveys (see Appendix E), noting that the ATI (Woodland Trust, n.d.) database holds no records of veteran trees within the study area.

4.3.5 Two native black poplars[8] (T112 and T113) were identified during field surveys. They are located on the boundary of Route Section C and Route Section D, with the closest pylon being 4AF128. The Project is committed to retaining these trees, with no tree pruning or coppicing (inclusive of works within the RPAs) being undertaken as per the relevant commitment (DE15) within **Application Document 7.3 Register of Environmental Actions and Commitments**.

4.3.6 Low Quality (Category C) and Very Low Quality (Category U) trees were recorded individually. However, due to the scale of the Project, these features are reported as canopy cover impacts in m^2 (refer to Table 5.2). Due to the agreed scoping method of surveying, canopy areas of Category C and U trees have not been separated in the report, and are discussed as Category C to represent a worst case.

4.3.7 The field surveys identified a total canopy area of 678,457 m^2 of Category C (including Category U) trees within the study area.

4.3.8 A summary of Category A and B arboricultural features identified within the study area is detailed in Table 4.1.

[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.

Table 4.1 – Summary of Category A and B arboricultural features identified within the study area

BS 5837 category	Quality	Individual trees	Tree groups	Woodlands	Total
Category A	High	46	1	0	**47**
Category B	Moderate	228	103	11	**342**
Total		**274**	**104**	**11**	**389**

4.3.9 Tree survey data are presented within Appendix C Tree Survey Schedule and shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D.

5. Arboricultural Impact Assessment

5.1 Scope of the Assessment

5.1.1 The scope of the AIA was to evaluate the impacts of the Project on arboricultural features.

5.1.2 The assessment includes specific reference to the effects of tree loss and other potentially damaging activities which could foreseeably occur in the vicinity of retained trees.

5.1.3 The Project design is shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D.

5.2 Arboricultural Features to be Impacted

5.2.1 In this report, arboricultural features are defined as individual trees, tree groups or woodlands.

5.2.2 Impacts are assessed on the design provided in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** which outlines generalised vegetation clearance requirements for the various elements of construction.

5.2.3 Impacts have been assessed within the six Route Sections. Where a tree group or woodland spans two Route Sections, impacts have been assessed within the Route Section where most of the canopy is located.

5.2.4 Impacts to arboricultural features have been reported using the following method:

- 'Removed' – Individual trees, groups of trees, and woodland that need to be removed to ground level (with grubbing out of stumps/roots where required) for construction and/or operation of the Project.
- 'Affected/Managed' – Individual trees, groups of trees, and woodland that would be managed through pruning, coppicing[9], pollarding[10] or a reduction in height for construction and/or operation of the Project.
- 'Potentially Affected' – Individual trees, groups of trees, and woodland unlikely to be affected by the Project if the design (based upon the Project design set out in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** and shown in **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**, **Application Document 6.4.F3 Environmental Statement Figure 4.3 Temporary Construction Works**, and **Application Document 6.4.F4 Environmental Statement Figure 4.4 Third Party Works**) were to be implemented; but that might be affected/managed or removed should the flexibility afforded by the LoD be utilised or accesses/working areas moved within the afforded flexibility within the Order Limits.

[9] Coppicing – trees are cut to near ground level allowing secondary growth from the coppice stool/stump.

[10] Pollarding – upper branches are cut to a fixed height usually between 2 m and 5 m in height

- ‘Not affected’ – Individual trees, groups of trees, and woodland not affected if the Project were to be implemented.

5.2.5 The results of the impact assessment on high and moderate quality arboricultural features recorded (including veteran trees, TPOs, and designated ancient woodland), are provided within Table 5.1.

Table 5.1 – Impacts to high and moderate quality features by Route Section

Feature	Removed	Affected/ managed	Potentially affected	Not affected	Total
Route Section A – between the proposed Birkhill Wood Substation and the River Ouse					
Trees	9	18	16	41	84
Tree Canopy (m^2)	1,274	2,346	2,453	5,664	11,737
Group Canopy (m^2)	4,474	3,745	9,795	67,898	85,912
Woodland Canopy (m^2)	38,271	14,009	30,377	165,368	248,025
Canopy Subtotal (m^2)	44,019	20,100	42,625	238,930	345,674
Route Section B – between the River Ouse and Crowle					
Trees	1	1	5	7	14
Tree Canopy (m^2)	113	46	641	1,173	1,973
Group Canopy (m^2)	0	9	766	3,721	4,496
Woodland Canopy (m^2)	0	0	0	0	0
Canopy Subtotal (m^2)	113	55	1,407	4,894	6,468
Route Section C – between Crowle and North Moor (M180)					
Trees	2	0	1	14	17
Tree Canopy (m^2)	487	160	211	1,491	2,349
Group Canopy (m^2)	249	233	1,197	29,138	30,817
Woodland Canopy (m^2)	0	0	0	0	0
Canopy Subtotal (m^2)	736	393	1,408	30,629	33,166
Route Section D – between North Moor (M180) and the River Idle					
Trees	2	4	9	32	47
Tree Canopy (m^2)	241	494	1,877	5,307	7,919

Feature	Removed	Affected/ managed	Potentially affected	Not affected	Total
Group Canopy (m^2)	2	836	2,334	30,856	34,028
Woodland Canopy (m^2)	0	0	0	5,085	5,085
Canopy Subtotal (m^2)	243	1,330	4,211	41,248	47,032
Route Section E – between the River Idle and Darlton					
Trees	10	19	10	50	89
Tree Canopy (m^2)	1,889	2,869	1,977	8,025	14,760
Group Canopy (m^2)	3,233	2,000	5,271	50,520	61,024
Woodland Canopy (m^2)	0	0	132	5,357	5,489
Canopy Subtotal (m^2)	5,122	4,869	7,380	63,902	81,273
Route Section F – between Darlton and the proposed High Marnham Substation					
Trees	6	0	4	13	23
Tree Canopy (m^2)	741	46	362	1,703	2,852
Group Canopy (m^2)	0	0	251	1,902	2,153
Woodland Canopy (m^2)	0	0	0	0	0
Canopy Subtotal (m^2)	741	46	613	3,605	5,005

5.2.6 The impact assessment results for low quality arboricultural features[11] are reported as canopy cover loss (m^2) provided within Table 5.2.

5.2.7 Features that have been assessed as low or very low quality have not had canopy spreads recorded. Where available, the height of the tree has been used to calculate the estimated canopy spread and the predicted canopy of the tree. In trees that have not had a height attributed to them, the assumption is the tree is 15 m in height and has a canopy spread of 7 m.

[11] Noting that this also includes any Category U – very low quality – features.

Table 5.2 – Canopy cover impacts to low quality features

Route Section	Canopy removed (m^2)	Canopy affected/ managed (m^2)	Canopy potentially affected (m^2)	Canopy not affected (m^2)	Total (m^2)
A	37,736	21,258	33,077	171,163	263,234
B	4,083	2,778	4,508	47,968	59,337
C	2,719	3,466	2,661	37,989	46,835
D	11,889	15,788	15,323	67,614	110,614
E	7,414	8,738	15,921	120,953	153,026
F	1,791	7,622	6,509	29,489	45,411
Totals	**65,632**	**59,650**	**77,999**	**475,176**	**678,457**

5.2.8 The baseline field surveys identified a total of 37 veteran trees and one veteran tree group within the study area. No veteran trees require removal to facilitate the Project, based upon the Project design set out in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** and shown in **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**, **Application Document 6.4.F3 Environmental Statement Figure 4.3 Temporary Construction Works**, and **Application Document 6.4.F4 Environmental Statement Figure 4.4 Third Party Works** (which is used as the basis of the assessment presented in this AIA). However, in the event that flexibility of the LoD for the proposed overhead line is used to the south in its location, the common oak, T4, may require removal.

5.2.9 There are 13 veteran trees and one veteran tree group identified for management/pruning based on the Project design (as described above), and a further eight veteran trees that may require management should the LoD be used in their locations during detailed design. These are detailed in Table 3.3 of Appendix E.

5.2.10 Neither of the two designated ancient woodlands listed on Natural England's Ancient Woodland Inventory (Natural England, 2026) (Natural England, 2026) and identified on MAGIC (Department for Environment, Food and Rural Affairs, 2026), Treswell Wood and Tongs and Dogholes Wood (both located in Route Section E) would be affected as a result of the Project. Treswell Wood is also a Site of Special Scientific Interest (SSSI) and although it lies partially within the Order Limits, there is a specific commitment in **Application Document 7.3 Register of Environmental Actions and Commitments** that no works will be undertaken within the boundary of this SSSI.

5.2.11 Thirty-two Tree Preservation Orders (TPOs), including TPOs for individual trees and tree groups, and woodlands are located within the study area. One TPO woodland will require partial removal, TPO/1998/0028 near pylon 4AF137 on Route Section D. Additionally, two TPO groups will require partial removal, TPO group B000481 near pylon 4AF1243 and TPO group B000082 near pylon 4AF174 both of which are in Route Section E. Within TPO group B000481 one individual tree will be removed, eight individual trees are affected managed, and 13 individual trees are potentially affected. Within TPO group B000082 two individual trees will be removed, two individual trees are affected managed, and three individual trees are potentially

affected. Within these two tree groups in total three individual trees will be removed, ten individual trees are affected managed, and 16 individual trees are potentially affected. Tree Preservation Order data provided by Lincolnshire County Council also identifies an individual tree TPO/2006/0098 in Route Section C. This is identified on **Figure 1 Arboricultural Impacts Plan** in Appendix D as being located directly on the line of a panelled access to pylons ZDA113 and ZDA114, and therefore in a location which would require its removal. However, surveys have confirmed that this tree no longer exists, and consequently TPO/2006/0098 is shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D, but no assessment of impacts is made.

5.2.12 There are three conservation areas within the study area (see Appendix B). No trees, groups, or woodlands within these conservation areas will be impacted to facilitate the Project.

5.2.13 There are seven traditional orchards within the study area (Natural England, n.d.), (see Appendix B). Six are not affected by the Project, however one is assessed as Potentially Affected. This traditional orchard (reference number PHID47763691_038581753) is located in Route Section E south of pylon 4AF205. The northeast tip of the orchard is just within the Order Limits and the extent to which it would be impacted should the LoD for the proposed overhead line be used in its location is shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D.

5.2.14 Within Route Section A the removal of nine high/moderate quality trees would be necessary to facilitate the Project, as well as the removal of 4,474 m^2 of A/B Category group canopy cover, and 38,271 m^2 of A/B Category Woodland Canopy cover (Table 5.1).

5.2.15 Within Route Section B one high/moderate quality tree will require removal (Table 5.1). No tree groups or woodlands would require removal (Table 5.1).

5.2.16 Within Route Section C the removal of two high/moderate quality trees would be required, as well as 249 m^2 of group canopy cover. No woodland canopy cover will require removal to facilitate the Project (Table 5.1).

5.2.17 Within Route Section D the removal of two high/moderate quality trees would be required as well as 2 m^2 of group canopy cover. No woodland canopy cover will require removal to facilitate the Project (Table 5.1).

5.2.18 Within Route Section E the removal of ten high/moderate quality trees would be required, as well as the removal of 3, 233 m^2 of group canopy cover. No woodland canopy cover will require removal to facilitate the Project (Table 5.1).

5.2.19 Within Route Section F six high/moderate quality trees require removal to facilitate the Project. No tree groups or woodlands would require removal (Table 5.1).

5.3 Other Potential Arboricultural Impacts

5.3.1 Other potential arboricultural impacts result from activities that do not require the direct removal of the tree, but have the potential, without mitigation, to cause damage to retained trees. Table 5.3 presents the potential causes of damage to features and mitigation measures which are proposed. Implementation of the mitigation measures in Table 5.3 as well as the embedded mitigation in **Application Document 7.3 Register of Environmental Actions and Commitments** and **Application Document 7.8 Outline Landscape and Ecology Management Plan** would ensure that arboricultural features are retained without significant loss of value or a notable

reduction in tree health or longevity. All construction elements likely to impact on retained trees will be addressed within an AMS including a Tree Protection Plan to be produced following detailed design and shared with the relevant local planning authorities, as secured through the applicable Requirement in **Application Document 3.1 Draft Development Consent Order**. Production of the AMSs is also committed to within **Application Document 7.3 Register of Environmental Actions and Commitments Mitigation**. It is likely that each construction stage will require bespoke AMSs and TPPs.

Table 5.3 – Other potential arboricultural impacts, proposed mitigation

Feature	Cause of impact	Potential impact	Mitigation measures
All potentially affected/not affected retained features	Earthworks and use of machinery associated with the construction.	Significant encroachment within RPAs possibly severing feeder and/or structural roots as well as disturbing soil composition and reducing the available rooting area. Significant encroachment of canopy area possibly requiring canopy reduction which would reduce photosynthesising capability and create stress that may cause a decline in tree health. Significant below or above ground impacts described above are likely to cause the decline and ultimate death of trees if not appropriately mitigated.	Bespoke mitigation measures would be specified following detailed design by the Main Works Contractor(s). These may include one or a combination of the following: • Design refinements to avoid or reduce encroachment, micro-siting, working from track side, hand digging. • 'No dig' solutions such as geocellular ground protection and protective fencing. • Where works within an RPA are required, supervision of the works to be conducted by an Arboricultural Clerk of Works (ArbCoW) and any additional recommendations to be followed.
All potentially affected/not affected retained features	Working space requirements during construction (below ground impact).	Soil compaction and root damage for construction working space requirements. Loss of vitality and decline in health. Reduction in quality of trees/potential death of trees.	Where practicable, establish (and set out within an AMS) a construction exclusion zone (CEZ) demarcated by tree protection fencing for the duration of construction. Where access only is required, temporary ground protection measures would

Feature	Cause of impact	Potential impact	Mitigation measures
			be installed to prevent soil compaction and root damage. Where works within an RPA are required, supervision of the works to be conducted by ArbCoW and any additional recommendations to be followed.
All potentially affected/not affected retained features	Working space requirements during construction (above ground impact).	Injurious contact with above ground elements of retained trees (i.e. mechanical damage via construction plant contact). Loss of vitality and decline in health. Reduction in quality of trees/potential death of trees.	Establish a CEZ within an AMS and implement for the duration of construction. Enact arboricultural supervision during construction near trees. Requirements for pruning to avoid injurious contact are to be determined with arboricultural supervision by the ArbCoW prior to commencing all activities.

5.4 Mitigation Planting

5.4.1 The Project has been designed to avoid impacting trees where reasonably practicable. However, unavoidable tree loss would be compensated through the implementation of landscape design including new tree planting as identified within **Application Document 7.8 Outline Landscape and Ecology Management Plan**.

5.4.2 National Grid has committed to a 3:1 replacement ratio for individual (non-veteran) trees and individual trees within small groups. Where possible and practicable the Project will prioritise this replanting within the Order Limits, as per the appropriate commitment within **Application Document 7.3 Register of Environmental Actions and Commitments**. Where practicable, trees will be replanted in the same, or close to the location from which they were removed. Exceptions to this include areas where tree planting would be unsuitable, for example, areas under the proposed overhead line, areas located above third party underground cables, or areas with existing constraints which preclude tree planting. In these cases, tree planting will be undertaken as close as possible to the original location as set out in **Application Document 7.8 Outline Landscape and Ecology Management Plan**. Details of planting will be provided in accordance with the LEMP secured under the relevant Requirement within **Application Document 3.1 Draft Development Consent Order**, and details of the proposed planting areas are provided in section 8.7 of **Application Document 7.8 Outline Landscape and Ecology Management Plan**.

5.4.3 National Grid has committed to a 30:1 replacement planting ratio should veteran tree T4 require removal (see paragraph 5.2.8) as secured through **Application Document 7.3 Register of Environmental Actions and Commitments**. If required, this replacement planting would be undertaken adjacent to Socken Wood (which is

also located in Route Section A), as detailed in Table 8.2 of **Application Document 7.8 Outline Landscape and Ecology Management Plan**.

5.4.4 New tree planting would use native species resilient to climate change and resistant to pests and disease. Species mixes are outlined in **Application Document 7.8 Outline Landscape and Ecology Management Plan** which is secured by the appropriate Requirement (Construction Management Plans) of **Application Document 3.1 Draft Development Consent Order**.

5.4.5 Indicative landscape proposals for each of the proposed replanting areas are discussed in **Application Document 7.8 Outline Landscape and Ecology Management Plan** and shown on **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**.

6. Summary and Conclusions

6.1 Desk-Based Study Summary

6.1.1 Desk-based studies undertaken for the arboricultural study area as part of the assessment identified the following:

- Thirty individual trees or tree groups covered by TPOs;
- Three conservation areas;
- Two areas of designated ancient woodland;
- No records of ancient or veteran trees; and
- Seven traditional orchards.

6.2 Field Surveys Summary

6.2.1 Field surveys of arboricultural features within the study area were undertaken between July 2024 and February 2026. Surveys identified 389 high and moderate quality arboricultural features, consisting of 274 individual trees, 104 tree groups and 11 woodlands within the study area (these include arboricultural features i.e. groups of trees, veteran trees, ancient woodland and TPOs). Of those recorded, 47 are assessed as high quality and 342 as moderate quality features.

6.2.2 Thirty-seven veteran trees and one veteran tree group were identified within the study area through field-based surveys.

6.2.3 Two native black poplars (T112 and T113) were identified during field surveys. They are located on the boundary of Route Section C and Route Section D, with the closest pylon being 4AF128. 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**.

6.2.4 Low (and very low) quality arboricultural features are reported as canopy cover (m^2) and the desk-based study identified a total of 678,457 m^2 within the study area.

6.3 Arboricultural Impact Assessment Summary

6.3.1 Section 5.2 presents the combined impacts to high and moderate quality (Category A and B) trees, however this is reflected as no high quality Category A trees requiring removal to facilitate construction of the Project, noting that veteran tree T4 is considered separately below in paragraph 6.3.6. Thirty moderate quality Category B trees have been assessed as requiring removal.

6.3.2 Of the 218,430 m^2 Category A and B group canopy cover recorded in the study area, 7,958 m^2 of Category B group canopy cover has been identified for removal. No Category A group canopy cover has been identified for removal.

6.3.3 Of the 258,599 m² Category A and B woodland canopy cover recorded in the study area, 38,271 m² of Category B woodland canopy cover has been identified for removal. No Category A group canopy cover has been identified for removal.

6.3.4 Of the Category A and B trees, woodlands, and groups surveyed, a total of 41 individual trees, 6,823 m² group canopy cover and 14,009 m² woodland canopy cover would be affected/managed which would include tree works undertaken in line with BS 3998:2010 (British Standards Institution, 2010) guidelines.

6.3.5 The remaining features fall into two categories, 'Potentially Affected' – trees which could be impacted should the flexibility afforded by the LoD be utilised during detailed design, and 'Not affected' – trees outside the LoD which will not be impacted by the Project regardless of the parameters of the detailed design.

6.3.6 Of the 37 veteran trees and one veteran group identified within the study area, none require removal to facilitate the Project based upon the Project design set out in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** and shown in **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**, **Application Document 6.4.F3 Environmental Statement Figure 4.3 Temporary Construction Works**, and **Application Document 6.4.F4 Environmental Statement Figure 4.4 Third Party Works** (which is used as the basis of the assessment presented in this AIA). However, in the event flexibility of the LoD for the proposed overhead line is used to the south in its location, the Common oak T4 (illustrated on **Figure 1 Arboricultural Impacts Plan** in Appendix D) may require removal.

6.3.7 The remaining veteran trees and veteran group could be retained through a combination of management, avoidance, and the installation of protection measures. There are 11 veteran trees and one veteran group identified for management/pruning as per the Project design assessed for the AIA, and a further ten veteran trees that may require management should the LoD be used in their locations during detailed design[4]. These are detailed in Table 3.3 of Appendix E.

6.3.8 Veteran trees have an uncapped RPA, and any works are detailed in Appendix E Veteran Tree Assessment Methodology, which details the compensation and mitigation strategies for veteran trees.

6.3.9 Neither of the two designated ancient woodlands within the study area (Treswell Wood, and Tongs and Dogshole Wood), would be affected as a result of new infrastructure (see **Application Document 7.8 Outline Landscape and Ecology Management Plan** for impacts due to existing infrastructure).

6.3.10 Thirty-two TPOs, including TPOs for individual trees and tree groups, and woodlands are located within the study area. One TPO woodland will require partial removal, TPO/1998/0028 near pylon 4AF137 on Route Section D. Additionally, two TPO groups will require partial removal, TPO group B000481 near pylon 4AF1243 and TPO group B000082 near pylon 4AF174 both of which are in Route Section E. Within TPO group B000481 one individual tree will be removed, eight individual trees are affected managed, and 13 individual trees are potentially affected. Within TPO group B000082 two individual trees will be removed, two individual trees are affected managed, and three individual trees are potentially affected. Within these two tree groups in total three individual trees will be removed, ten individual trees are affected managed, and 16 individual trees are potentially affected. Tree Preservation Order data provided by Lincolnshire County Council also identifies an individual tree TPO/2006/0098 in Route Section C. This is identified on **Figure 1 Arboricultural**

Impacts Plan in Appendix D as being located directly on the line of a panelled access to pylons ZDA113 and ZDA114, and therefore in a location which would require its removal. However, surveys have confirmed that this tree no longer exists, and consequently TPO/2006/0098 is shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D, but no assessment of impacts is made.

6.3.11 There are seven traditional orchards within the study area (Natural England, n.d.), (see Appendix B). Six are not affected by the Project, however one is assessed as Potentially Affected. This traditional orchard (reference number PHID47763691_038581753) is located in Route Section E south of pylon 4AF205. The northeast tip of the orchard is just within the Order Limits and the extent to which it would be impacted should the LoD for the proposed overhead line be used in its location is shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D.

6.3.12 To facilitate the construction of the Project, approximately 65,632 m^2 of low-quality tree canopy would be removed along with an additional 59,650 m^2 being Affected/Managed, and 77,999 m^2 being Potentially Affected.

6.3.13 National Grid has committed to a 30:1 tree replacement ratio for veteran tree T4, should its removal be required at detailed design, and a 3:1 tree replacement ratio for all other individual trees and individual trees within small groups. Larger tree groups and woodland (area habitat) are addressed within **Application Document 7.1 Biodiversity Net Gain Report**.

6.3.14 Should the removal of veteran tree T4 be required replanting will be in an area adjacent to Socken Wood (which is also located in Route Section A), as detailed in Table 8.2 of **Application Document 7.8 Outline Landscape and Ecology Management Plan**. Where possible and practicable the Project will prioritise the replanting of individual trees and individual trees within small groups within the Order Limits, as per the appropriate commitment within **Application Document 7.3 Register of Environmental Actions and Commitments**. Where practicable, trees will be replanted in the same, or close to the location from which they were removed. Exceptions to this include areas where tree planting would be unsuitable, for example, areas under the proposed overhead line, areas located above third-party underground cables, or areas with existing constraints which preclude tree planting. In these cases, tree planting will be undertaken as close as possible to the original location and still within the Order Limits as set out in **Application Document 7.8 Outline Landscape and Ecology Management Plan**. Details of planting will be provided in accordance with the LEMP secured under the relevant Requirement within **Application Document 3.1 Draft Development Consent Order**, and details of the proposed planting areas are provided in section 8.7 of **Application Document 7.8 Outline Landscape and Ecology Management Plan**.

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Appendix A
General Arboricultural Principals

nationalgrid

Contents

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1. General Arboricultural Principles

1.1 Introduction

1.1.1 This appendix to **Application Document 7.14 Arboricultural Impact Assessment** sets out the general arboricultural principles which should be considered throughout the duration of the Project.

1.2 General Arboricultural Principles

General Principles

1.2.1 Trees are dynamic living organisms which provide essential benefits to society and the wider environment. All Project activities with the potential to impact on trees must take into consideration the value of trees located within the Order Limits, the impact of any proposed activity along with any potential future conflicts within the Order Limits. Suitable measures to safeguard retained trees or mitigate the loss of trees (to be removed) will need to be fully considered and may be subject to a requirement of the Development Consent Order (DCO).

1.2.2 Tree branches and roots frequently grow across site boundaries and off-site trees can pose a constraint and should be carefully considered when assessing the developable space within a site. Where possible, all trees within 15 metres (m) of the Order Limits have been recorded and assessed, with this buffer being extended to 30 m for potential veteran or ancient trees identified during the field-based surveys.

1.2.3 Each tree species exhibits differing genetic traits which can affect the size, stature and rooting area characteristics of each tree. Trees are also affected by climatic events, damage, pathogens and non-typical rooting environments, leading to altered life expectancies. It should be noted that the life expectancy given during the field-based surveys is an estimate, considered with appropriate, imposed management in mind. Tree life expectancy can change rapidly, and any assessments of health and safety should be addressed separately to the DCO.

Below Ground Constraints

1.2.4 Below ground tree roots and the soil environment in which they grow need to be protected if the tree is to be retained. Trees grow in association with fungi and other soil organisms which are of key importance to tree health. Roots are essential for anchorage, the uptake of water and nutrients, and the storage of energy for the future growth and function of the tree.

1.2.5 Roots can be damaged by physical severance, wounding and soil compaction which can lead to the development of decay and a decline in vitality and/or instability. Raising the soil level can bury tree roots at a depth where suitable conditions for growth are less available. Toxic materials discharged into the soil (such as cement based aggregates, fuel and chemicals) can lead to root death and dysfunction. Soils can be compacted to levels inhospitable to tree growth with even a single pass of machinery, regular pedestrian traffic or the storage of plant and materials. Relieving

compaction can be problematic and may require costly remedial works. Changes in drainage/water levels can also have significant long-term impacts for tree health.

1.2.6 The effects of these incursions may take many years to manifest, with a resulting decline in amenity value and potentially the death or failure of the tree. Older trees are particularly sensitive to damage and changes in conditions.

1.2.7 The Root Protection Area (RPA) is a notional area considered to be the minimum zone that must be protected to avoid any adverse impacts on retained trees. This area is deemed to be particularly important for tree stability, growth, function and health. However, roots may extend far greater distances, with the distribution of the root system relating directly to the availability of suitable conditions for growth (namely oxygen, water, and nutrients). It is generally accepted that tree roots are predominantly located in the upper 1,000 millimetres (mm) of soil; however, roots may develop at deeper levels where conditions allow.

1.2.8 Root Protection Areas are calculated as per BS5837:2012 (British Standards Institution, 2012).

1.2.9 The RPA of the existing tree stock is an important material consideration when considering site constraints and planning development activities. The RPAs of trees within the Order Limits are shown on Figure 1 Arboricultural Impacts Plan in Appendix D.

1.2.10 The default position must be that all development, including any associated services, will occur outside the RPAs of retained trees. Where this is unavoidable, it may be appropriate to use special measures to install structures, services or surfacing within RPAs which allow the protection of roots and soil structure which are essential for tree growth and keep any incursion to a minimum.

1.2.11 Further steps to improve or increase the useable rooting area available to the tree may also be required.

Soils

1.2.12 On shrinkable clay soil, tree growth can lead to the differential movement of structures as moisture is removed from the soil during the growing season. Where trees which predate existing structures are to be removed, this can result in heave as the soils are re-wet.

1.2.13 The advice of a suitably qualified engineer must be obtained to inform any potential issue of heave. Specific advice in relation to this issue is beyond the scope of this report.

Above Ground Constraints

1.2.14 Tree stems and branches can restrict available space on a site. Damage or wounding (including excessive pruning) can significantly reduce the amenity contribution of the tree and may lead to the development of dysfunction and decay, with significant long-term implications for tree health. The future impact of existing trees should be carefully considered, including individual species characteristics (such as potential future size, fruit fall, shade etc.) and how the tree will interact with any Project and future land use. Annual tree growth can lead to direct damage if stems/branches (or roots) come into physical contact with structures and this must also be taken into consideration.

Trees and Risk in the Context of Development

1.2.15 Tree owners/managers have a legal duty to prevent foreseeable harm. It is generally accepted that this duty can be fulfilled by undertaking proactive inspections of significant trees to identify obvious defects and by taking appropriate remedial action or gaining further advice as appropriate.

1.2.16 Further guidance is available from the National Tree Safety Group (National Tree Safety Group, 2024).

1.2.17 The tree survey carried out as the basis of this report is primarily for planning purposes, focusing on the quality and benefits of the trees and is not specifically designed to assess the safety of trees within and immediately adjacent to the Order Limits. However, when obvious issues have been identified during the baseline surveys these were raised within the Project's health and safety reporting mechanism.

1.2.18 The Construction (Design and Management) Regulations 2015 (Health and Safety Executive, 2015) state that developers and contractors have responsibilities for health and safety because of their actions. Should trees be left in an unstable or hazardous condition the Health and Safety Executive (HSE) could seek to prosecute those responsible along with the potential for further Civil claims for damages.

Trees and Wildlife

1.2.19 Full consideration must be given to the presence of species protected under the Wildlife and Countryside Act 1981 (HM Government, 1981) the Countryside and Rights of Way Act 2000 (HM Government, 2000) and The Conservation of Habitats and Species Regulations 2017 (HM Government, 2017), in particular the presence of bats and nesting birds. An assessment of impacts on these species is provided within **Application Document 6.8 Environmental Statement Chapter 8 Ecology** and **Application Document 6.9 Environmental Statement Chapter 9 Ornithology**.

Tree Works

1.2.20 Any physical arboricultural works are to be undertaken in accordance with BS3998:2010 (British Standards Institution, 2010) by a suitably qualified and insured arborist. Significant pruning works are best undertaken when trees are dormant or outside periods of high functional activity to reduce the overall impact on energy available to the tree for growth and processes. In general, the optimum period for works is between November to February and July to August (subject to the presence of protected species) when the tree is less active and better placed to respond to wounding and a reduction in leaf area.

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Appendix B
Desk Study Results

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1. Introduction

1.1 Introduction

1.1.1 This appendix to **Application Document 7.14 Arboricultural Impact Assessment** presents the results of the desk-based study on arboricultural statutory designations.

1.1.2 As described in **Application Document 6.1 Environmental Statement Chapter 1 Introduction**, the Project has been sub-divided into six geographical sections for reader accessibility. These 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.

1.1.3 This report presents the findings in relation to these Route Sections, which are shown in **Figure 1 Arboricultural Impacts Plan** in Appendix D.

1.2 Arboricultural Study Area

1.2.1 The arboricultural study area used for the desk-based study has been informed by the extent of Order Limits plus a 30 metre (m) buffer. While BS5837:2012 (British Standards Institution, 2012) caps the Root Protection Area (RPA) radius at 15 m, a study area of up to 30 m has been applied to capture a greater radius for veteran tree RPAs.

1.3 Reference Abbreviations

1.3.1 The following reference abbreviations are used throughout this document:

- T – Tree;
- G – Group; and
- W – Woodland.

2. Ancient Woodland

2.1.1 The locations of designated ancient woodland within the study area were obtained from Natural England's Ancient Woodland Inventory[1] (Natural England, 2026) (Natural England, 2026) as viewed on the Multi-Agency Geographic Information for the Countryside (MAGIC) website (Department for Environment, Food and Rural Affairs, 2026). Locations of designated ancient woodlands within the study area are shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D Arboricultural Impacts Plan.

2.1.2 Areas designated as ancient woodlands are listed in Table 2.1.

Table 2.1 – Ancient woodland within the study area

Ancient woodland name	Route Section	Reference number	Grid reference
Tongs and Dogholes Wood	E	G80	SK 76265 88993
Treswell Wood	E	n/a	SK 76196 79369

[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. Tree Preservation Orders

3.1.1 Tree Preservation Order (TPO) data has been supplied by North Lincolnshire Council, Bassetlaw District Council[2], and East Riding of Yorkshire Council.

3.1.2 The TPO data supplied by Bassetlaw District Council for use in this Arboricultural Impact Assessment and Arboricultural Impacts Plan represents the best available data as of 5 May 2026, with the understanding that the Council is actively updating and refining its TPO records. As a result, this dataset may not yet reflect all recent changes or newly designated areas. The TPO records should be reviewed prior to commencement of construction activities.

3.1.3 The TPO data supplied by North Lincolnshire Council contains an error, as shown in Table 3.1 and illustrated on sheet 80 of **Figure 1 Arboricultural Impacts Plan** in Appendix D. There are duplicate entries for TPO codes TPO/2006/0097 and TPO/2006/0098, in Route Section C, i.e. there are two instances of two trees being assigned the same identifier code.

3.1.4 Locations of TPOs within the study area are shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D Arboricultural Impacts Plan.

3.1.5 A list of the 32 TPOs within the study area are shown within Table 3.1.

Table 3.1 – Tree Preservation Orders within the study area

Local planning authority	Route Section	Reference number	Nearest pylon	Arboricultural Impacts Plan sheet number	Details
East Riding of Yorkshire	A	TPO3799	4AF66	44	Seven Birches
East Riding of Yorkshire	B	TPO1294	4AF85	56, 57	Species - various
East Riding of Yorkshire	B	TPO1293	4AF86	57	Species - various
East Riding of Yorkshire	B	TPO1295	4AF86	57	Seven Horse Chestnuts, two Sycamores
East Riding of Yorkshire	B	TPO1296	4AF86	57	Seven Horse Chestnuts, ten Sycamores
North Lincolnshire	C	TPO/1970/0018	ZDA113	80	One Sycamore

[2] The Project is located within the administrative boundaries of East Riding of Yorkshire Council, North Lincolnshire Council, and Bassetlaw District Council, which forms part of the two tier local government authority area of Nottinghamshire, where Nottinghamshire County Council is the upper tier authority.

Local planning authority	Route Section	Reference number	Nearest pylon	Arboricultural Impacts Plan sheet number	Details
North Lincolnshire	C	TPO/2006/0097	ZDA113	80	One Sycamore
North Lincolnshire	C	TPO/2006/0097	ZDA114	80	Species not listed
North Lincolnshire	C	TPO/2006/0098	ZDA113	80	One Horse Chestnut
North Lincolnshire	C	TPO/2006/0098	ZDA114	80	One Horse Chestnut
North Lincolnshire	C	TPO/1970/0001	ZDA113	80	Group consisting of one Alder, one Ash, nine Beech, 37 Elm, two English Oak, one Hawthorn, seven Horse Chestnut, five Lime, one Sycamore and two Turkey Oak.
North Lincolnshire	C	TPO/1970/0017	ZDA113	80	One Horse Chestnut
North Lincolnshire	C	TPO/1970/0016	ZDA113	80	One Sycamore
North Lincolnshire	C	TPO/1970/0015	ZDA113	80	One Horse Chestnut
North Lincolnshire	C	TPO/1970/0014	ZDA113	80	One Ash
North Lincolnshire	C	TPO/1970/0013	ZDA113	80	One Horse Chestnut
North Lincolnshire	C	TPO/1970/0012	ZDA113	80	One Sycamore
North Lincolnshire	C	TPO/1970/0011	ZDA114	80	One Horse Chestnut
North Lincolnshire	C	TPO/1970/0010	ZDA114	80	One Lime
North Lincolnshire	C	TPO/1970/0009	ZDA114	80	One Horse Chestnut

Local planning authority	Route Section	Reference number	Nearest pylon	Arboricultural Impacts Plan sheet number	Details
North Lincolnshire	C	TPO/1970/0007	ZDA114	80	One Sycamore
North Lincolnshire	C	TPO/1970/0005	ZDA114	80	One Horse Chestnut
North Lincolnshire	C	TPO/1970/0004	ZDA114	80	One Sycamore
North Lincolnshire	C	TPO/1970/0044	ZDA114	80	One Horse Chestnut
North Lincolnshire	C	TPO/1970/0008	ZDA114	80	One Sycamore
North Lincolnshire	C	TPO/1970/0023	ZDA114	80	One Horse Chestnut
North Lincolnshire	D	TPO/1998/0028	4AF137	99, 100	Woodland consisting mainly of Horse Chestnut, Sycamore, Hawthorn, Crack Willow and Ash.
Bassetlaw	E	B000082	4AF174	117, 119	Several Ash trees
Bassetlaw	E	B000035	4AF199	137	Group of trees – species not specified
Bassetlaw	E	B000221	4AF211	143	One Yew tree
Bassetlaw	E	B0C0092	4AF230	153, 154	Group TPO – Species not specified
Bassetlaw	E	B000481	4AF243	160, 161	Group TPO – Species not specified

4. Conservation Areas

4.1.1 Local planning authorities are responsible for implementing any legal controls imposed through conservation areas within their respective jurisdictions within the study area. The locations of conservation areas within the study area are shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D Arboricultural Impacts Plan.

4.1.2 A list of conservation areas within the study area are shown within Table 4.1.

Table 4.1 – Conservation areas within the study area

Local planning authority	Route Section	Name of conservation area	Nearest pylon	Arboricultural Impacts Plan Sheet Number	Reference number
East Riding of Yorkshire	A	Ellerker	4AF45	24, 25, 26	6802
Bassetlaw	E	Saundby	4AF197	134	9656
Bassetlaw	E	East Drayton	4AF242	158, 159	216

5. Ancient and Veteran Trees

5.1.1 A review of the Woodland Trust's Ancient Tree Inventory (ATI) (Woodland Trust, n.d.) undertaken in May 2026 has shown no recorded ancient or veteran trees within the study area. However, this dataset relies on volunteer submissions and is prone to spatial inaccuracies during recording. The inventory is therefore not a comprehensive list and does not necessarily represent an up-to-date record of all ancient or veteran trees. An absence of records therefore does not demonstrate the absence of ancient and veteran trees but may simply indicate a gap in recording coverage.

5.1.2 It is noted that 37 veteran trees and one veteran group were recorded within the study area during the Project field-based surveys. These are listed in Appendix E and shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D.

6. Traditional Orchards

6.1.1 The potential presence of traditional orchards within the study area was checked using the Priority Habitats Inventory (England) (Natural England, n.d.).

6.1.2 Seven traditional orchards were identified as listed in Table 6.1 and shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D Arboricultural Impacts Plan.

Table 6.1 – Traditional orchards within the study area

Local planning authority	Route Section	Nearest pylon	Arboricultural Impacts Plan sheet number	Reference number
East Riding of Yorkshire	A	4ZQ70	24	PHID48455936_042591961
East Riding of Yorkshire	A	4AF69	47	PHID49237423_042858680
Bassetlaw	E	4AF205	139 and 140	PHID47763691_038581753
Bassetlaw	E	4AF205	140	PHID47665869_038597558
Bassetlaw	E	4AF225	150	PHID47743275_038078654
Bassetlaw	E	4AF245	161	PHID47742539_037418119
Bassetlaw	F	4AF248	162	PHID47797574_037364240

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Appendix C
Tree Schedule

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Contents

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1. Introduction

1.1 Introduction

1.1.1 This appendix to **Application Document 7.14 Arboricultural Impact Assessment** has been produced to support **Figure 1 Arboricultural Impacts Plan** in Appendix D of this document. It contains information on surveyed trees and tree groups recorded as Category A and B (high and moderate value) in accordance with BS 5837:2012 (British Standards Institution, 2012).

1.1.2 The methodology for determining Category, to BS 5837:2012 (British Standards Institution, 2012), is described in section 3.3 of **Application Document 7.14 Arboricultural Impact Assessment**. In accordance with BS 5837:2012 (British Standards Institution, 2012), within Table 1.1 the BS 5837 category includes the sub-category. Sub-categories carry equal weight, do not influence retention priority, and are simply included to indicate the primary value associated with each surveyed item. Sub-categories 1, 2, and 3 are intended to reflect arboricultural, landscape, and cultural values respectively.

1.2 Tree Survey Schedule Explanatory Notes

Reference Abbreviations

1.2.1 The following reference abbreviations are used throughout this document:

- T – Tree;
- G – Group; and
- W – Woodland.

Measurements

1.2.2 Height is estimated to provide a relative indication of tree size.

1.2.3 Stem diameters are measured in accordance with BS 5837:2012 paragraph 4.6.1, Annex C (British Standards Institution, 2012). Where access to vegetation was restricted, stem diameters have been estimated. Locations of the parcels where access was restricted are shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D of this document.

1.2.4 Crown spread for tree groups is recorded as an average for the group.

1.2.5 Root Protection Area (RPA) Rad: the radius of a circular RPA associated with the tree as measured from the centre of the stem. The reported RPA radii in the Tree Survey Schedule for all tree groups and woodlands are based on the equivalent largest tree stem of each tree group.

Table 1.1 – Tree survey schedule

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T1	field maple - *Acer campestre*	7	700	8	Mature	Field edge tree, Multi-stem from base. Snapped limbs and managed on field sides.	8.4	20+ Years for Cat B	B2
T2	common oak - *Quercus robur*	16	930	14	Mature	Large basal cavity on south side of stem. Two limb fractures in mid canopy, with deadwood over 250 mm and hanging caught up limb.	11.2	20+ Years for Cat B	B3
T3	ash - *Fraxinus excelsior*	15	1000	16	Mature	A declining tree in poor condition. Ash dieback[1] within crown, large deadwood present. Stem and basal decay.	12	20+ Years for Cat B	B3
T4	common oak - *Quercus robur*	19	1450	22	Veteran	Very large diameter veteran tree, large area of missing bark from ground level to upper canopy, possible lighting strike. Large deadwood present in lower crown, minor decay noted, tree has great vigour and is including wound well.	21.8	40+ Years for Cat A	A3

[1]Ash dieback is a destructive fungal disease affecting ash trees, caused by *Hymenoscyphus fraxineus*. It leads to leaf loss, bark lesions, and crown dieback, frequently resulting in tree death. It has four Stages: 1 Infection (0-25% Dieback), 2 Crown Dieback (25-50% Dieback), 3 Structural Decline (50-75% Dieback), and 4 Failure or Death (75-100% Dieback).

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T5	common oak - *Quercus robur*	9	830	16	Mature	Mature tree, no veteran features, good condition.	10	20+ Years for Cat B	B2
T6	common oak - *Quercus robur*	11	400	18	Semi-Mature	Semi mature tree of good condition.	4.8	20+ Years for Cat B	B1
T7	common oak - *Quercus robur*	11	700	18	Semi-Mature	Semi mature tree of good condition.	8.4	20+ Years for Cat B	B1
T8	common oak - *Quercus robur*	11	1000	18	Early-Mature	Tree of good condition.	12	20+ Years for Cat B	B1
T9	common oak - *Quercus robur*	11	1000	18	Early-Mature	Tree of good general condition.	12	20+ Years for Cat B	B1
T10	common oak - *Quercus robur*	11	1050	18	Semi-Mature	Tree of good general condition.	12.6	20+ Years for Cat B	B1
T11	common oak - *Quercus robur*	11	1100	18	Early-Mature	Tree of good general condition.	13.2	20+ Years for Cat B	B1
T12	ash - *Fraxinus excelsior*	18	1200	20	Veteran	Better condition than neighbour, 30% dieback. Large deadwood present, stem cavities, and branch failures.	18	40+ Years for Cat A	A3
T13	ash - *Fraxinus excelsior*	14	1000	24	Veteran	A large dying tree with large stem cavities, large deadwood present, and three nest sites - possibly woodpecker. Extensive stem decay noted. Epiphyte in top snap	15	40+ Years for Cat A	A3

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						wounds. *Inonotus*[2] on underside of northeast branch.			
T14	common pear - *Pyrus communis*	14	1000	20	Mature	Large, mature pear tree in good condition.	12	40+ Years for Cat A	A1
T15	ash - *Fraxinus excelsior*	12	1000	8	Veteran	Major stem failure at 6 m. Large cavity on west side of stem at approximately 1.5 m to stem failure point. Canopy death, major deadwood and branches with cankers throughout. *Pholiota squarosa*[3] at base, decay in cavity.	15	40+ Years for Cat A	A3
T16	field maple - *Acer campestre*	8	840	8	Veteran	Ganoderma brackets[4] at base to east. Rubber mallet used, internal decay established at base. Pruning wounds, snapped branches, and senescence of canopy observed. Elder epiphyte in crown break. Stem lean to north. Stem and crown cavities. Major deadwood.	12.6	40+ Years for Cat A	A3
T17	sycamore - *Acer pseudoplatanus*	15	840	10	Early-Mature	Included union at 1 m. Full canopy with minor deadwood and pruning	10.1	20+ Years for Cat B	B2

[2] A wood-decaying bracket fungi that grows on living or dead trees, often causing white rot.

[3] *Pholiota squarrosa*, commonly known as the shaggy scalycap, typically targets older or already weakened broadleaved trees and causes a white rot which can hollow out the root stock or base over time.

[4] *Ganoderma* is a group of bracket fungi. Thay are a powerful wood-decaying fungus at attacks the roots, root collar, and lower trunk of living trees.

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						wounds on stem. Growing at roadside.			
T18	ash - *Fraxinus excelsior*	10	800	8	Mature	Failure of leader stem and major branches to the north, east, and south. Major deadwood, extensive canopy death, cavities, and habitat holes. Potential Stage 3 ash dieback[1].	9.6	20+ Years for Cat B	B3
T19	beech - *Fagus sylvatica*	11	400	10	Semi-Mature	A tree of good condition with no defects.	4.8	20+ Years for Cat B	B1
T20	beech - *Fagus sylvatica*	11	350	12	Semi-Mature	A semi mature tree of good condition.	4.2	20+ Years for Cat B	B1
T21	common lime - *Tilia x europaea*	9	250	6	Semi-Mature	A semi mature tree of good condition.	3	20+ Years for Cat B	B1
T22	ash - *Fraxinus excelsior*	25	1100	25	Mature	Ivy clad stem. Adjacent to bridleway. Moderate deadwood and crown cavities noted.	13.2	20+ Years for Cat B	B2
T23	sycamore - *Acer pseudoplatanus*	19	1000	13	Early-Mature	A large tree of good condition.	12	20+ Years for Cat B	B1
T24	sycamore - *Acer pseudoplatanus*	17	900	12	Early-Mature	Large mature tree of good condition.	10.8	20+ Years for Cat B	B2
T25	common pear - *Pyrus communis*	15	820	10	Mature	Large for species with a healthy canopy. Within a private residence. Suspected Ganoderma australe[4] at base and lower stem.	9.8	20+ Years for Cat B	B1

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T26	beech - *Fagus sylvatica*	17	700	13	Early-Mature	A leaning tree in good condition which has recently had ivy severed.	8.4	20+ Years for Cat B	B1
T27	beech - *Fagus sylvatica*	22	950	11	Mature	A mature tree of good condition, no major defects. Minor deadwood in lower crown.	11.4	20+ Years for Cat B	B1
T28	beech - *Fagus sylvatica*	24	940	15	Mature	Large mature tree general good condition, minor deadwood.	11.3	20+ Years for Cat B	B1
T29	beech - *Fagus sylvatica*	19	550	9	Early-Mature	An ivy clad tree of moderate condition.	6.6	20+ Years for Cat B	B2
T30	beech - *Fagus sylvatica*	20	700	11	Mature	Large mature tree of general good condition. Small amount of ivy present.	8.4	20+ Years for Cat B	B1
T31	ash - *Fraxinus excelsior*	8	540	1	Veteran	Dead tree snapped out at 5 m, nest site observed.	8.1	40+ Years for Cat A	A3
T32	beech - *Fagus sylvatica*	22	1210	15	Mature	A very large mature tree, no significant features.	14.5	20+ Years for Cat B	B1
T33	beech - *Fagus sylvatica*	19	760	11	Mature	Large mature tree moderate condition.	9.1	20+ Years for Cat B	B1
T34	beech - *Fagus sylvatica*	21	1140	21	Mature	Large mature tree in good condition, recently exposed by adjacent tree failure.	13.7	20+ Years for Cat B	B1
T35	white willow - *Salix alba*	14	1100	10	Mature	Ditch to east. Ivy clad to mid canopy and moderate deadwood. Branch	13.2	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						fractures and habitat holes. Stem lean towards road.			
T36	white willow - *Salix alba*	13	1250	6	Veteran	Major stem failure from 2 m to base. Extensive exposed heartwood and decay. Ditch to east. Remaining canopy is healthy.	18.8	40+ Years for Cat A	A3
T37	horse chestnut - *Aesculus hippocastanum*	20	1250	23	Mature	Pruning wounds, major snapped branches, and epicormic growth. Suspected *cerrioporus squamosus*[5] in lower canopy at 4 m. Setback 10 m from road.	15	40+ Years for Cat A	A2
T38	common oak - *Quercus robur*	12	650	12	Early-Mature	Moderate deadwood throughout canopy on eastern side. On top of ditch bank. Overall healthy canopy.	7.8	20+ Years for Cat B	B2
T39	ash - *Fraxinus excelsior*	14	500	12	Early-Mature	Roadside tree with a full canopy, set behind hedgerow. Some tip dieback.	6	20+ Years for Cat B	B2
T40	ash - *Fraxinus excelsior*	15	1100	22	Mature	Ivy on stem to 4 m. *Inonotus* bracket[2] visible on primary branch central to canopy on eastern side at approximately 5 m. Habitat holes and moderate deadwood observed. Arising from hedge.	13.2	20+ Years for Cat B	B2

[5] *Cerioporus squamosus*, commonly known as dryad's saddle, is a bracket fungus that grows on dead or dying hardwood trees

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T41	beech - *Fagus sylvatica*	17	1330	24	Mature	Major deadwood in internal canopy, habitat holes, and cavities. Large bough at 1.5 m measures 670 mm diameter. Possible *kretzschmaria deusta*[6] at root flare.	16	40+ Years for Cat A	A1
T42	hybrid black poplar - *Populus x canadensis*	26	820	14	Mature	Minor canopy lifting on west.	9.8	20+ Years for Cat B	B1
T43	silver maple - *Acer sacccharinum*	15	850	16	Mature	Twin stem from base. Full canopy with minor deadwood.	10.2	20+ Years for Cat B	B2
T44	white willow - *Salix alba*	17	1600	20	Veteran	Stem collapsing with extensive heartwood exposure and decay. Aerial rooting and habitat holes. Elder epiphyte growing along failed limb.	24	40+ Years for Cat A	A3
T45	white willow - *Salix alba*	15	1100	10	Mature	Collapsed stem with extensive hollowing. Continued growth following collapse.	13.2	20+ Years for Cat B	B3
T46	white willow - *Salix alba*	15	1700	11	Veteran	Potential lapsed pollard. Major failure at crown break, hollow inside with extensive exposed heartwood and decay. Snapped and failed limbs, and major deadwood.	25.5	40+ Years for Cat A	A3

[6] *Kretzschmaria deusta*, commonly known as brittle cinder fungus targets the roots and lower trunks of broadleaved hardwood trees, particularly beech, maple, and horse chestnut, causing a specialised type of soft rot that severely compromises structural stability and triggers sudden tree failure.

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T47	white willow - *Salix alba*	17	1600	20	Mature	Stem collapsing, with a large area of exposed heartwood and decay. Aerial rooting, major deadwood and habitat holes.	19.2	40+ Years for Cat A	A3
T48	crack willow - *Salix fragilis*	17	1200	20	Mature	Dual stem from 0.5 m with historic crown pruning on roadside resulting in exposed heartwood and an open cavity.	14.4	20+ Years for Cat B	B3
T49	crack willow - *Salix fragilis*	11	1700	18	Veteran	Historical pollard at approximately 2 m, hollow main trunk dividing the stem into two growth columns with natural bracing. Crown pruning on roadside.	25.5	40+ Years for Cat A	A3
T50	common oak - *Quercus robur*	11	850	12	Mature	Basal cavity on southwest side, limb pruning on north and deadwood stubs and fracture wounds.	10.2	20+ Years for Cat B	B2
T51	common oak - *Quercus robur*	8	700	14	Mature	Stem leaning approximately 35 degrees east. Stem fracture wound on east side, major deadwood, and flailing and pruning wounds.	8.4	20+ Years for Cat B	B2
T52	common oak - *Quercus robur*	8	600	10	Mature	Set in hedge boundary. Flailed along field edges. Minor deadwood throughout canopy.	7.2	20+ Years for Cat B	B2
T53	common oak - *Quercus robur*	15	900	13	Early-Mature	Mature tree moderate condition, previous large limb removal.	10.8	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T54	common oak - *Quercus robur*	19	550	12	Early-Mature	A tree of good condition, minor deadwood.	6.6	20+ Years for Cat B	B1
T55	common oak - *Quercus robur*	10	300	8	Semi-Mature	A young tree of good condition.	3.6	20+ Years for Cat B	B2
T56	common oak - *Quercus robur*	14	800	13	Early-Mature	Tree of general good condition with deadwood in lower crown.	9.6	20+ Years for Cat B	B1
T57	common oak - *Quercus robur*	14	900	14	Early-Mature	Tree of declining condition with large deadwood in crown.	10.8	20+ Years for Cat B	B1
T58	common oak - *Quercus robur*	14	800	16	Mature	Nest observed in upper canopy. Minor deadwood throughout, pruning wounds, and an area of missing bark on primary branch on northwest side.	9.6	20+ Years for Cat B	B2
T59	common oak - *Quercus robur*		1100	13	Mature	Retrenching crown, major deadwood, pruning wounds, and snapped limbs. Beehive within cavity at branch union at approximately 2 m. Wound at base on north side, approximately 400 mm long by 40 mm wide. Veteran features.	13.2	20+ Years for Cat B	B3
T60	ash - *Fraxinus excelsior*	17	650	14	Mature	Healthy canopy with minor deadwood. Secondary stem from base.	7.8	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T61	silver birch - *Betula pendula*	10	450	10	Mature	Private residence tree.	5.4	20+ Years for Cat B	B2
T62	white willow - *Salix alba*	13	900	20	Mature	Residential tree overhanging the road with a snapped primary branch. Trifurcates at 1 m. Minor deadwood.	10.8	20+ Years for Cat B	B2
T63	sycamore - *Acer pseudoplatanus*	13	450	12	Early-Mature	Pruning wounds over roadside, minor deadwood. Epicormic growth at base and on stem.	5.4	20+ Years for Cat B	B2
T64	crack willow - *Salix fragilis*	9	1000	10	Mature	Heavily reduced to circa 4.5 m with secondary growth which has been subsequently pruned for overhead lines to the west.	12	20+ Years for Cat B	B1
T65	common alder - *Alnus glutinosa*	8	430	8	Early-Mature	A tree of moderate condition.	5.2	20+ Years for Cat B	B2
T66	wild cherry - *Prunus avium*	8	450	8	Early-Mature	Pruning wounds and minor deadwood.	5.4	20+ Years for Cat B	B2
T67	crack willow - *Salix fragilis*	14	1500	18	Veteran	Hollow main stem to 2 m with internal decay and fungi. Aerial rooting and lichen on stem. Potential old pollard with large girth scaffold branch to the east. Deadwood in upper canopy less than 75 mm. Deadwood to the east in excess of 200 mm. Historic pruning on roadside.	22.5	40+ Years for Cat A	A3

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T68	common oak - *Quercus robur*	18	1100	21	Mature	Growing on bank of ditch with exposed buttress roots. Evidence of historic minor mechanical damage to roots. Deadwood up to 150 mm in canopy.	13.2	40+ Years for Cat A	A1
T69	common oak - *Quercus robur*	19	1200	18	Mature	Mature tree of good condition.	14.4	20+ Years for Cat B	B1
T70	crack willow - *Salix fragilis*	14	1300	20	Mature	Twin stem from base. Located on roadside of ditch with moderate deadwood up to 150 mm and previous pruning on roadside.	15.6	20+ Years for Cat B	B2
T71	common oak - *Quercus robur*	11	500	8	Early-Mature	Roadside tree growing alongside ditch to west. Healthy canopy.	6	20+ Years for Cat B	B2
T72	ash - *Fraxinus excelsior*	14	650	16	Mature	Growing within ditch with a road to the south. Deadwood up to 150 mm in mid canopy with previous crown lifting and crown cavities	7.8	20+ Years for Cat B	B2
T73	common oak - *Quercus robur*	11	500	12	Early-Mature	Roadside tree adjacent to ditch. Full canopy with minor deadwood.	6	20+ Years for Cat B	B2
T74	sycamore - *Acer pseudoplatanus*	15	750	16	Mature	Twin stem from 3 m.	9	20+ Years for Cat B	B2
T75	horse chestnut - *Aesculus hippocastanum*	18	1200	18	Mature	Large, mature tree, not inspected fully as on private land, good condition.	14.4	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T76	sycamore - *Acer pseudoplatanus*	18	800	15	Early-Mature	Purple leaved cultivar. Good condition with minor deadwood in lower crown.	9.6	20+ Years for Cat B	B2
T77	common oak - *Quercus robur*	13	1100	19	Veteran	Retrenching crown, large deadwood, hazard beams, crown and stem cavities. Hanging branches observed.	16.5	40+ Years for Cat A	A3
T78	ash - *Fraxinus excelsior*	13	750	4	Mature	A dying tree exhibiting major ash dieback. Previously large failure at 4 m, with split running from failure to ground level. Large, open, heavily decaying cavity at 4 m. Nest site at 7 m on eastern side.	9	20+ Years for Cat B	B3
T79	common oak - *Quercus robur*	11	750	15	Mature	Large sized deadwood, large open cavity to base, and rabbit warren underneath.	9	20+ Years for Cat B	B3
T80	common oak - *Quercus robur*	14	780	14	Mature	Good condition. Large open cavity at base with extensive decay within, large deadwood present.	9.4	20+ Years for Cat B	B3
T81	common oak - *Quercus robur*	8	670	15	Mature	Large open cavity at 4 m, with extensive decay within. Large deadwood, possible lightning strike tree.	8	20+ Years for Cat B	B3
T82	common oak - *Quercus robur*	7	600	8	Early-Mature	Tree of good condition with some deadwood within crown.	7.2	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T83	common oak - *Quercus robur*	10	870	16	Veteran	Large diameter oak tree, previously failed. Large decayed areas in crown, and a cavity at base with extensive decay within.	13.1	40+ Years for Cat A	A3
T84	common oak - *Quercus robur*	10	900	14	Mature	Hollowed out main stem with living canopy on northern side and multiple branches at circa 2.5 m with uniform spreading canopy.	10.8	20+ Years for Cat B	B3
T85	hawthorn - *Crataegus monogyna*	8	500	8	Mature	Habitat holes and minor deadwood. Twin stem from base.	6	20+ Years for Cat B	B2
T86	hawthorn - *Crataegus monogyna*	8	500	8	Mature	Canopy retrenching, habitat holes, and moderate deadwood. Multi-stem from 1 m.	6	20+ Years for Cat B	B2
T87	Turkey oak - *Quercus cerris*	14	750	14	Mature	Bounded by stockproof fencing. Pruning wounds, stubs, and an included union at 3 m. Moderate deadwood in canopy.	9	20+ Years for Cat B	B2
T88	common lime - *Tilia x europaea*	13	450	10	Early-Mature	Full canopy, overall good condition. Deep ditch to east. Adjoins hedge.	5.4	20+ Years for Cat B	B2
T89	deodar cedar- *Cedrus deodara*	13	400	12	Semi-Mature	Tree of great condition.	4.8	20+ Years for Cat B	B1
T90	crack willow - *Salix fragilis*	12	1300	19	Veteran	Large split willow, two stems 0 to1.5 m failed, decay present at base.	19.5	40+ Years for Cat A	A3

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T91	hawthorn - *Crataegus monogyna*	6	650	9	Mature	Multi-stem at base with crown cavities.	7.8	20+ Years for Cat B	B3
T92	common oak - *Quercus robur*	15	800	18	Mature	On bankside of ditch. Moderate deadwood in lower-mid canopy.	9.6	20+ Years for Cat B	B2
T93	common oak - *Quercus robur*	9	710	8	Early-Mature	Snapped and dead main leader. Snapped limbs, peeling bark, cavities and habitat holes.	8.5	20+ Years for Cat B	B2
T94	pine - *Pinus spp*	16	810	14	Mature	Deer platform affixed to stem on southern side. 3 m from arable field. Moderate deadwood on stem typical of species.	9.7	20+ Years for Cat B	B2
T95	crack willow - *Salix fragilis*	18	1600	20	Mature	Five main stems from near base with one branch fractured and resting in ground at 1 m height. Approximately top 5 m of canopy appears to be dead with deadwood over 150 mm. Growing in water filled ditch. Stem diameter estimated at base of tree.	19.2	20+ Years for Cat B	B3
T96	ash - *Fraxinus excelsior*	16	720	14	Early-Mature	Low canopy adjacent to farm track.	8.6	20+ Years for Cat B	B2
T97	white willow - *Salix alba*	15	1670	16	Veteran	Lapsed pollard at circa 1.3 m. Multiple stem failures and secondary wide spreading canopy.	25.1	40+ Years for Cat A	A3

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						Basal cavities, aerial rooting, crown cavities and branch splits.			
T98	sycamore - *Acer pseudoplatanus*	10	1000	14	Mature	Large, mature tree in good condition with no defects observed.	12	20+ Years for Cat B	B1
T99	silver birch - *Betula pendula*	14	420	10	Early-Mature	No observations made	5	20+ Years for Cat B	B2
T100	common oak - *Quercus robur*	15	650	12	Mature	Set in field. Fair condition with minor deadwood.	7.8	20+ Years for Cat B	B2
T101	common oak - *Quercus robur*	11	930	8	Mature	Retrenching canopy, moderate sized deadwood. Poached ground under tree. Metal tree guard rail being included around base.	11.2	20+ Years for Cat B	B3
T102	sycamore - *Acer pseudoplatanus*	16	720	14	Mature	Co dominant stems from circa 2.5 m with prolific Ivy to upper canopy. Unable to fully assess.	8.6	20+ Years for Cat B	B2
T103	sycamore - *Acer pseudoplatanus*	18	1000	16	Mature	Prolific Ivy to upper canopy, potential lapsed pollard with pollard point at 2 m.	12	20+ Years for Cat B	B2
T104	sycamore - *Acer pseudoplatanus*	18	1000	16	Mature	Prolific Ivy to upper canopy. Roadside tree.	12	20+ Years for Cat B	B2
T105	weeping willow - *Salix alba 'tristis'*	14	1250	16	Mature	In private land behind leylandii hedge. Prolific Ivy on main stem to 5 m. Pollard point at 6 m with snapped limbs.	15	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T106	white willow - *Salix alba*	15	950	19	Mature	Potential lapsed coppice stool with snapped and pruned branches and crown cavities/fractures.	11.4	20+ Years for Cat B	B3
T107	ash - *Fraxinus excelsior*	14	1100	20	Mature	Multi stem from base. Apparent lapsed coppice at bottom of bank roadside.	13.2	20+ Years for Cat B	B2
T108	common lime - *Tilia x europaea*	14	850	14	Mature	Garden tree with open wound cavity extending from base to circa 2.5 m up main stem on south.	10.2	20+ Years for Cat B	B2
T109	common oak - *Quercus robur*	25	1000	20	Early-Mature	Tree of general good condition.	12	20+ Years for Cat B	B1
T110	common alder - *Alnus glutinosa*	14	530	12	Mature	Growing on southern bank of watercourse with track to south. Pruned over trackside.	6.4	20+ Years for Cat B	B2
T111	common alder - *Alnus glutinosa*	13	380	8	Early-Mature	Growing on southern bank of watercourse with track to the south. Pruned over trackside.	4.6	20+ Years for Cat B	B2
T112	black poplar - *Populus nigra*	18	1,250	20	Mature	Potential old pollard at 4 m. Crown and stem cavities.	15	40+ Years for Cat A	A3
T113	black poplar - *Populus nigra*	19	1,340	18	Mature	Moderate deadwood in upper canopy. Crown deadwood and large pruning wounds on main stem to the east. Twin stem from 0.5 m.	16.1	40+ Years for Cat A	A3

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T114	common oak - *Quercus robur*	12	610	10	Mature	Multiple snap wounds and decaying wounds. Suspected *grifolia*[7] at base on east side. Lost leader at 3.5 m. Crown cavities and necrotic bark.	7.3	20+ Years for Cat B	B3
T115	common oak - *Quercus robur*	14	600	10	Early-Mature	Exposed heartwood at base. Moderate deadwood with crown lift on east side.	7.2	20+ Years for Cat B	B2
T116	common oak - *Quercus robur*	14	800	16	Mature	Minor deadwood and exposed heartwood at circa 5 m and pruned on east side for access clearance.	9.6	20+ Years for Cat B	B2
T117	common oak - *Quercus robur*	14	940	12	Mature	Moderate deadwood, thinning canopy, crown cavities, branch splits, pruning wounds and eastern side access clearance.	11.3	20+ Years for Cat B	B2
T118	common oak - *Quercus robur*	14	940	12	Mature	Moderate deadwood, thinning canopy, crown cavities, branch splits, pruning wounds and eastern side access clearance.	11.3	20+ Years for Cat B	B2
T119	white willow - *Salix alba*	16	1100	11	Mature	Multi stem with minor deadwood and pruning wounds.	13.2	20+ Years for Cat B	B2
T120	horse chestnut - *Aesculus hippocastanum*	14	1100	15	Mature	Poor physiological condition, structurally fair. Extensive crown dieback and signs of stress. Crown	13.2	20+ Years for Cat B	B3

[7] Grifolia are cluster forming fungi that grow at the base of hardwood trees and act as a weak parasite causing a slow root and butt rot, eventually contributing to the host tree's death.

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						cavities and old pruning wounds. Bud proliferation and galls widespread.			
T121	ash - *Fraxinus excelsior*	13	800	14	Mature	Prolific Ivy to mid canopy. Branch fractures observed.	9.6	20+ Years for Cat B	B2
T122	common oak - *Quercus robur*	20	1500	22	Veteran	Fungal brackets senescent at base. Suspected *meripilus*[8]. Snapped limbs, hanging branches and moderate deadwood.	22.5	40+ Years for Cat A	A3
T123	common oak - *Quercus robur*	16	1000	10	Mature	Significant amount of moderate deadwood. Prolific epicormic shoots. Tree appears stressed.	12	20+ Years for Cat B	B3
T124	horse chestnut - *Aesculus hippocastanum*	17	1080	17	Mature	Previous snapped branches, woodpecker hole, and crown cavities. Contorted limbs. Deadwood up to 150 mm.	13	20+ Years for Cat B	B2
T125	ash - *Fraxinus excelsior*	11	580	14	Mature	Located next to open ditch with lower limbs removed and deadwood less than 75 mm.	7	20+ Years for Cat B	B1
T126	white willow - *Salix alba*	18	1570	23	Veteran	Large basal cavity with heartwood decay. Whitebeam epiphyte with aerial roots. Dual stem from 2 m with longitudinal cracks and crown	23.6	40+ Years for Cat A	A3

[8] Bracket fungus that at the base of broadleaved trees. It attacks the structural roots, causing a destructive white rot that can make trees dangerously unstable and prone to sudden failure.

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						cavities. Minor deadwood throughout.			
T127	white willow - *Salix alba*	18	1400	17	Mature	Major decay and hollowing in stem.	16.8	20+ Years for Cat B	B3
T128	common oak - *Quercus robur*	14	800	20	Veteran	Twin stems (800 mm, 550 mm) arising from two old stumps, suggesting this tree was originally much larger.	12	40+ Years for Cat A	A3
T129	common oak - *Quercus robur*	14	780	18	Early-Mature	Tree of good condition, no defects.	9.4	20+ Years for Cat B	B2
T130	white willow - *Salix alba*	12	1620	10	Veteran	Large diameter willow, with significant decay throughout east of lower stem. Cavity formed from base creating hollow stem. Heavily weighted to the east with vigorous new growth forming a dense canopy. Ivy covered throughout.	24.3	40+ Years for Cat A	A3
T131	common oak - *Quercus robur*	13	800	17	Early-Mature	Large ivy clad tree, in good condition with a retrenching crown.	9.6	20+ Years for Cat B	B2
T132	common oak - *Quercus robur*	14	700	15	Early-Mature	Large, mature tree with a retrenching crown.	8.4	20+ Years for Cat B	B2
T133	common oak - *Quercus robur*	13	800	13	Early-Mature	Tree in decline. Retrenching crown with moderate deadwood.	9.6	20+ Years for Cat B	B2
T134	common oak - *Quercus robur*	14	830	20	Mature	Large, mature tree of good overall condition.	10	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T135	common oak - *Quercus robur*	10	600	10	Mature	Large diameter, squat tree. Deadwood present. Large patch of dead bark from limb failure. Retrenching crown with sulphur polypor[9] on torn stub.	7.2	20+ Years for Cat B	B3
T136	common oak - *Quercus robur*	14	900	10	Early-Mature	Large, mature tree in moderate condition. Large deadwood in lower crown.	10.8	20+ Years for Cat B	B2
T137	common oak - *Quercus robur*	12	700	15	Mature	Tree of declining condition, lightning strike damage from upper crown to ground level. sulphur polypore[9] at 10 m.	8.4	20+ Years for Cat B	B3
T138	common oak - *Quercus robur*	14	970	19	Mature	Large, mature tree in good condition. Previous failure at 4 m, decay present in stem at this point.	11.6	20+ Years for Cat B	B3
T139	common oak - *Quercus robur*	10	530	13	Early-Mature	A tree of good condition.	6.4	20+ Years for Cat B	B1
T140	common oak - *Quercus robur*	16	800	16	Mature	Large, mature tree, three-four large crown failures, extensive stem decay at 6 and 8 m great habitat deadwood present.	9.6	40+ Years for Cat A	A3
T141	ash - *Fraxinus excelsior*	12	1000	10	Mature	Major cavity at base to 2 m. Deadwood in upper canopy, crown	12	20+ Years for Cat B	B3

[9] Sulphur polypore (*Laetiporus sulphureus*), widely known as Chicken of the Woods, is a bracket fungus that causes a specific type of decay known as brown cubical rot. It attacks the inner heartwood of living trees, and compromises the structural integrity of the trunk or main branches

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						cavities, and habitat holes. Active Beehive at circa 4 m on southern side.			
T142	common oak - *Quercus robur*	13	630	19	Early-Mature	Minor deadwood. Open, spreading canopy.	7.6	20+ Years for Cat B	B2
T143	common oak - *Quercus robur*	14	570	14	Early-Mature	Minor deadwood. Open, spreading canopy.	6.8	20+ Years for Cat B	B2
T144	white willow - *Salix alba*	16	800	15	Veteran	Large diameter, partially fallen tree, now regrown in phoenix form. Multi-stemmed from 2 m. Forming a new canopy. Decay at base.	12	40+ Years for Cat A	A3
T145	common oak - *Quercus robur*	14	800	14	Mature	A tree of declining condition with a thin sparse crown. Ivy clad.	9.6	20+ Years for Cat B	B2
T146	common oak - *Quercus robur*	10	900	13	Early-Mature	Declining condition. Deadwood evident, retrenching crown.	10.8	20+ Years for Cat B	B2
T147	ash - *Fraxinus excelsior*	15	900	14	Mature	Adjacent to farm track. Hanger in mid canopy.	10.8	20+ Years for Cat B	B2
T148	ash - *Fraxinus excelsior*	13	570	16	Early-Mature	Wide spreading canopy with ivy on main stem and crown cavities.	6.8	20+ Years for Cat B	B2
T149	ash - *Fraxinus excelsior*	12	590	18	Early-Mature	Crown cavities, tree located on northern side of ditch.	7.1	20+ Years for Cat B	B2
T150	ash - *Fraxinus excelsior*	15	920	16	Early-Mature	Codominant stem from 1 m. On top of bank. Upper canopy snap outs, appears stressed.	11	20+ Years for Cat B	B3

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T151	white willow - *Salix alba*	18	1760	18	Veteran	Potential lapsed pollard. Major decay and cavity at base. Exposed heartwood. Moderate deadwood in canopy. Major limb failure at pollard point.	26.4	40+ Years for Cat A	A3
T152	ash - *Fraxinus excelsior*	11	800	8	Mature	Snapped out main leader at 4 m, extensive stem decay with old insect nest (wasp).	9.6	20+ Years for Cat B	B3
T153	common oak - *Quercus robur*	10	1100	18	Mature	Large, mature tree. Ivy clad, no apparent defects.	13.2	20+ Years for Cat B	B1
T154	white willow - *Salix alba*	15	1700	17	Veteran	Large multi-stem tree, three stems. Basal decay noted. Tree is failing at base away from parent stem. Epiphytes in crown break noted (elder). Pruning clearance on field side stem. Section of main stem is missing and decaying. Minor deadwood in canopy.	25.5	40+ Years for Cat A	A3
T155	white willow - *Salix alba*	15	1200	16	Veteran	Phoenix growth from failed stem. Layering of main stem and regrown from ground contact point. Visible root damage on field side to north. Decay at base. Epiphytes in stem cavities. Moderate deadwood in canopy, lichen on stems and mosses on stem bases.	18	40+ Years for Cat A	A3

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T156	white willow - *Salix alba*	10	900	16	Mature	Collapsed main stem. Mossy base and lichen on stems. Fractures in stems. Minor deadwood. Lower mid canopy pruning on field margins.	10.8	20+ Years for Cat B	B3
T157	white willow - *Salix alba*	16	1640	17	Veteran	Phoenix growth from collapsed stem. Epiphytes in stem. Moss on lower branch scaffold. Minor deadwood and some pruning wounds on field margin.	24.6	40+ Years for Cat A	A3
T158	sycamore - *Acer pseudoplatanus*	17	710	14	Mature	Growing close to bank on northern side. Large lower limbs removed. Deadwood below 75 mm.	8.5	20+ Years for Cat B	B2
T159	common lime - *Tilia x europaea*	21	800	17	Mature	Tree of good condition, heavy epicormics noted.	9.6	20+ Years for Cat B	B1
T160	common lime - *Tilia x europaea*	20	800	13	Mature	Tree suppressed by adjacent trees, in decline. Medium sized deadwood noted.	9.6	20+ Years for Cat B	B1
T161	common lime - *Tilia x europaea*	18	800	6	Early-Mature	A suppressed tree of declining condition. Dieback noted in upper crown, dead leader, and heavy epicormics.	9.6	20+ Years for Cat B	B1
T162	common lime - *Tilia x europaea*	21	1200	18	Mature	A large, mature tree of good condition. Minor deadwood noted.	14.4	20+ Years for Cat B	B1
T163	common oak - *Quercus robur*	9	600	10	Early-Mature	Moderate deadwood in mid canopy, stem fractures, and mechanical	7.2	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						damage at base. On west side of 1 m deep ditch.			
T164	ash - *Fraxinus excelsior*	12	900	15	Mature	A tree of moderate condition. Deadwood, cavities and *inonotus*[2] observed.	10.8	20+ Years for Cat B	B1
T165	white willow - *Salix alba*	9	900	11	Mature	Crown snapouts, hanging deadwood and two spiral columns of exposed and decayed heartwood. Lapsed pollard at circa 3 m.	10.8	20+ Years for Cat B	B3
T166	ash - *Fraxinus excelsior*	15	680	12	Early-Mature	Prolific Ivy to upper canopy, located in hedgerow on opposite side of an open ditch.	8.2	20+ Years for Cat B	B2
T167	ash - *Fraxinus excelsior*	13	670	16	Early-Mature	Prolific Ivy to mid canopy with minor deadwood and crown cavities.	8	20+ Years for Cat B	B2
T168	ash - *Fraxinus excelsior*	16	500	14	Mature	Ivy clad stem to mid canopy, full survey restricted. Road to south, field to north.	6	20+ Years for Cat B	B1
T169	crack willow - *Salix fragilis*	12	1070	18	Mature	Dual stem with exposed heartwood decay. Major deadwood in canopy with snapped limbs and hangers. Crown cavities.	12.8	20+ Years for Cat B	B3
T170	crack willow - *Salix fragilis*	12	1220	23	Mature	Multistem from 0.5 m. Set in hedgerow. Likely originally managed as hedgerow tree. Minor	14.64	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						deadwood and pruned above footpath.			
T171	ash - *Fraxinus excelsior*	14	1100	17	Veteran	Large diameter ash, previously split in two but only one half remains. when the tree failed the whole canopy was lost and the tree has reformed its canopy with new growth.	16.5	40+ Years for Cat A	A3
T172	common oak - *Quercus robur*	10	750	10	Early-Mature	Good condition, not fully assessed due to vegetation.	9	20+ Years for Cat B	B2
T173	common oak - *Quercus robur*	12	950	11	Mature	Great condition. Large deadwood present in crown, no significant features.	11.4	20+ Years for Cat B	B1
T174	Monterey pine - *Pinus radiata*	17	1200	10	Early-Mature	Not fully inspected as on adjacent land without access agreement. Great condition, fine specimen, minor branch failure noted due to exposed site.	14.4	20+ Years for Cat B	B1
T175	Monterey pine - *Pinus radiata*	15	500	8	Semi-Mature	Not fully inspected as on adjacent land without access agreement. Good condition, though with several large branch failures from exposed site and high wind.	6	20+ Years for Cat B	B1
T176	wellingtonia - *Sequoiadendron giganteum*	12	400	7	Semi-Mature	Not inspected as on adjacent private land, unusual form for species.	4.8	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T177	hybrid black poplar - *Populus x canadensis*	19	1050	20	Mature	No observations made	12.6	20+ Years for Cat B	B2
T178	white willow - *Salix alba*	17	1600	22	Mature	Multi-stem from base. Multiple large snap wounds and failed limbs. Moderate deadwood in mid canopy. Prolific Ivy to mid/upper canopy.	19.2	20+ Years for Cat B	B3
T179	ash - *Fraxinus excelsior*	15	1000	14	Mature	Extensive stem hollowing and multiple snapped limbs. *Daldinia concentrica*[10] on main stem at 1.5 m.	12	20+ Years for Cat B	B3
T180	ash - *Fraxinus excelsior*	14	700	14	Mature	Lapsed coppice stool. Major stem decay and open stem cavity from 3 m to 6 m. *Pseudoinonotus dryadus* bracket[11] on east side.	8.4	20+ Years for Cat B	B2
T181	ash - *Fraxinus excelsior*	16	750	16	Mature	Sparse canopy, moderate deadwood in mid canopy to north. Creek immediately to north.	9	20+ Years for Cat B	B2
T182	ash - *Fraxinus excelsior*	14	650	16	Early-Mature	Senescent *Inonotus*[2] on ground. Hedgerow tree. Crown cavity at circa 2.5 m. Minor deadwood.	7.8	20+ Years for Cat B	B2

[10] *Daldinia concentrica*, commonly known as King Alfred's cakes, is a black ball-shaped fungus found on dead or dying hardwood trees, especially ash and beech.

[11] *Pseudoinonotus* bracket, commonly called the oak bracket, causes a white rot that attacks the heartwood, roots, and lower trunk, compromising a tree's stability

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T183	weeping willow - *Salix alba 'tristis'*	14	950	18	Mature	Snap and pruning wounds with asymmetrical canopy.	11.4	20+ Years for Cat B	B2
T184	common oak - *Quercus robur*	13	920	16	Early-Mature	Wide spreading canopy. Moderate deadwood.	11	20+ Years for Cat B	B2
T185	ash - *Fraxinus excelsior*	16	750	18	Early-Mature	Branch fractures and crown cavities. Deadwood up to 75 mm.	9	20+ Years for Cat B	B1
T186	ash - *Fraxinus excelsior*	13	800	18	Early-Mature	Ivy on stem from approximately 2 m to mid canopy. Ivy recently severed. Growing from hedgerow on side of hard surfaced track.	9.6	20+ Years for Cat B	B1
T187	ash - *Fraxinus excelsior*	14	850	14	Mature	Approximately 50% live canopy. Ganoderma bracket[4] at basal flare to south-west. Major deadwood and crown cavities.	10.2	20+ Years for Cat B	B3
T188	common oak - *Quercus robur*	11	620	10	Early-Mature	Open spreading canopy with pruning over access track to the west.	7.4	20+ Years for Cat B	B2
T189	sycamore - *Acer pseudoplatanus*	13	630	14	Early-Mature	Multi-stem from 2.5 m with ivy to mid canopy.	7.6	20+ Years for Cat B	B2
T190	ash - *Fraxinus excelsior*	17	940	22	Mature	Hedgerow tree. Snap and pruning wounds. Minor deadwood, crown cavities and ivy to mid canopy.	11.3	20+ Years for Cat B	B2
T191	crack willow - *Salix fragilis*	14	1200	14	Mature	Lapsed pollard at 1 m. Stem on southern side of water filled ditch. Ivy to mid canopy.	14.4	20+ Years for Cat B	B3

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T192	crack willow - *Salix fragilis*	14	1200	16	Mature	Lapsed pollard at 1 m. Stem on southern side of water filled ditch. Ivy to mid canopy. Dual stem. One stem pollarded at circa 2 m.	14.4	20+ Years for Cat B	B3
T193	crack willow - *Salix fragilis*	14	1200	16	Mature	Lapsed pollard at 1 m. Stem on southern side of water filled ditch. Ivy to mid canopy. Stem cavities and decay.	14.4	20+ Years for Cat B	B3
T194	ash - *Fraxinus excelsior*	16	720	20	Early-Mature	Previous crown lifts. Cavities in crown.	8.6	20+ Years for Cat B	B2
T195	common oak - *Quercus robur*	14	300	10	Semi-Mature	Good condition tree. Suppressed by neighbour.	3.6	20+ Years for Cat B	B2
T196	common oak - *Quercus robur*	14	450	14	Semi-Mature	Tree of good condition.	5.4	20+ Years for Cat B	B2
T197	common oak - *Quercus robur*	13	1200	19	Mature	Mature tree with large deadwood, and two previous branch failures.	14.4	20+ Years for Cat B	B1
T198	common oak - *Quercus robur*	21	500	8	Early-Mature	Good condition.	6	20+ Years for Cat B	B1
T199	walnut - *Juglans spp*	11	630	14	Mature	Garden tree with minor pruning on roadside to north. Deadwood less than 75 mm.	7.6	20+ Years for Cat B	B1
T200	common oak - *Quercus robur*	10	300	8	Semi-Mature	Tree of good condition with no defects.	3.6	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T201	common oak - *Quercus robur*	12	500	10	Semi-Mature	Tree of good condition.	6	20+ Years for Cat B	B1
T202	common oak - *Quercus robur*	13	1000	14	Mature	Tree of good condition deadwood present in crown.	12	20+ Years for Cat B	B1
T203	common oak - *Quercus robur*	8	350	4	Semi-Mature	A young tree with potential.	4.2	20+ Years for Cat B	B1
T204	common oak - *Quercus robur*	13	970	24	Mature	Large, mature tree good condition deadwood present, no defects.	11.6	20+ Years for Cat B	B1
T205	common oak - *Quercus robur*	12	540	8	Early-Mature	Tree of good condition.	6.5	20+ Years for Cat B	B2
T206	common oak - *Quercus robur*	14	980	18	Mature	A large diameter tree of good condition no defects.	11.8	20+ Years for Cat B	B1
T207	ash - *Fraxinus excelsior*	7	980	10	Mature	Extensive hollowing and heartwood decay. Appears to be a historic multi-stem however it is missing one stem. Large decaying bole.	11.8	20+ Years for Cat B	B3
T208	common oak - *Quercus robur*	19	850	16	Mature	Large, mature tree of good condition with no defects.	10.2	20+ Years for Cat B	B1
T209	lombardy poplar - *Populus nigra 'italica'*	24	400	6	Early-Mature	Viewed from roadside, limited survey. Road to south, private residence to north.	4.8	20+ Years for Cat B	B2
T210	white willow - *Salix alba*	13	1100	17	Mature	Hanging limbs due to storm damage. Crown cavities and multi	13.2	20+ Years for Cat B	B3

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						stem from 1 m. Set on southern side of ditch.			
T211	ash - *Fraxinus excelsior*	18	900	18	Mature	*Inonotus* bracket[2] on west side of stem at approximately 2 m. Snapped branches in lower to middle canopy and pruning wounds on east side.	10.8	20+ Years for Cat B	B2
T212	ash - *Fraxinus excelsior*	19	1020	17	Mature	Moderate deadwood in mid canopy. Twin stem from 1.5 m. Crown cavities observed.	12.2	20+ Years for Cat B	B2
T213	common oak - *Quercus robur*	18	960	18	Mature	Surveyed from roadside. Pruning wounds and crown cavities. Minor deadwood. Ivy on lower stem.	11.5	20+ Years for Cat B	B2
T214	crack willow - *Salix fragilis*	16	2500	8	Veteran	Heavily decayed to south, old pollard	37.5	40+ Years for Cat A	A3
T215	willow species	15	2500	16	Veteran	Additional veteran tree. Lapsed pollard with very large stem. Retrenching, snapped limbs. Epiphytes in crown break.	37.5	40+ Years for Cat A	A3
T216	white willow - *Salix alba*	14	2300	14	Veteran	Old coppice stool.	34.5	40+ Years for Cat A	A3
T217	ash - *Fraxinus excelsior*	17	700	14	Mature	Surveyed from road. Minor deadwood. Set in hedgerow.	8.4	20+ Years for Cat B	B2
T218	white willow - *Salix alba*	12	735	23	Mature	Multi-stemmed tree (six stems) all stems 300 mm diameter. Storm	3.8	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						damage. Limb failure 320 mm diameter.			
T219	white willow - *Salix alba*	13	1155	23	Veteran	Veteran willow tree, multi stemmed (six stems). Collapsing hazard beam formation on one stem. Basal decay. Stem diameters (in mm) are: 550, 430, 520, 410, 500, and 400.	8.3	40+ Years for Cat A	A3
T220	ash - *Fraxinus excelsior*	13	1100	10	Mature	Lapsed coppice, ash dieback. Potential historic boundary. Crown cavities/habitat holes. Coppice stool approximately 2 m across.	13.2	20+ Years for Cat B	B3
T221	common oak - *Quercus robur*	14	600	12	Mature	Surveyed from a distance.	7.2	20+ Years for Cat B	B1
T222	common oak - *Quercus robur*	11	700	17	Early-Mature	An ivy clad tree of moderate condition. Minor deadwood noted.	8.4	20+ Years for Cat B	B2
T223	common oak - *Quercus robur*	12	630	18	Mature	A mature tree of moderate condition. Deadwood noted in canopy, minor crown decline.	7.6	20+ Years for Cat B	B2
T224	common oak - *Quercus robur*	12	500	14	Early-Mature	A tree of good condition with no defects.	6	20+ Years for Cat B	B2
T225	common oak - *Quercus robur*	10	900	17	Early-Mature	A mature oak tree of moderate condition, previously shed two-three limbs.	10.8	20+ Years for Cat B	B2
T226	ash - *Fraxinus excelsior*	7	900	5	Mature	Recently pollarded tree, presumably because of ash dieback. Large	10.8	40+ Years for Cat A	A3

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						open cavity at 6 m - nest site. Ivy covered stem.			
T227	common oak - *Quercus robur*	16	800	16	Early-Mature	Large, mature tree of moderate condition, minor deadwood in lower crown. Thin upper crown, in decline.	9.6	20+ Years for Cat B	B1
T228	common oak - *Quercus robur*	9	800	12	Early-Mature	A mature ivy clad tree, moderate condition.	9.6	20+ Years for Cat B	B2
T229	common oak - *Quercus robur*	15	1070	17	Mature	Mature oak in field. Extensive hollowing in stem from base to 2.5 m. Retrenching crown and moderate deadwood. Crown cleared for farm machinery. Cropped around stem as close as 1 m.	12.8	20+ Years for Cat B	B3
T230	common oak - *Quercus robur*	13	1000	13	Mature	Retrenching canopy with epicormic growth. Appears stressed. Stagheading[12].	12	20+ Years for Cat B	B2
T231	common oak - *Quercus robur*	11	780	16	Early-Mature	Set in hedgerow. Open grown and Ivy clad stem	9.4	20+ Years for Cat B	B2
T232	common oak - *Quercus robur*	9	600	12	Early-Mature	Set in hedgerow. Open grown. Major pruning wounds and longitudinal cracks. Habitat holes.	7.2	20+ Years for Cat B	B3

[12] Stagheading is the progressive death of a tree's upper branches and outer crown. The bare, dead limbs stick out like deer antlers, which gives this condition its name.

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T233	common oak - *Quercus robur*	11	650	12	Early-Mature	Set in hedgerow. Open grown.	7.8	20+ Years for Cat B	B2
T234	common oak - *Quercus robur*	10	840	14	Early-Mature	Set in hedgerow. Ivy clad stem. Open grown. Crown cavities.	10.1	20+ Years for Cat B	B2
T235	ash - *Fraxinus excelsior*	19	1030	21	Mature	On bank of ditch. Multiple *Inonotus* brackets[2] in branches. Ivy to mid canopy.	12.4	20+ Years for Cat B	B3
T236	ash - *Fraxinus excelsior*	11	600	10	Mature	Previously pollarded approximately 20 years ago, decay pockets at previous pollard points creating great habitat. Twin stem.	7.2	20+ Years for Cat B	B2
T237	common oak - *Quercus robur*	11	300	13	Semi-Mature	Semi-mature tree of good condition. Minor deadwood.	3.6	20+ Years for Cat B	B2
T238	common oak - *Quercus robur*	13	1500	2	Veteran	Large diameter oak tree. Looks in good condition. Not inspected due to being on adjacent land without access.	22.5	40+ Years for Cat A	A1
T239	common oak - *Quercus robur*	14	600	14	Early-Mature	Ivy clad stem with minor deadwood and an open grown canopy	7.2	20+ Years for Cat B	B2
T240	white willow - *Salix alba*	12	1300	16	Veteran	A large diameter collapsing tree, with stem decay and storm damage. Two large, failed limbs. Ivy present.	19.5	40+ Years for Cat A	A3
T241	ash - *Fraxinus excelsior*	7	1300	9	Mature	Snapped main stem at circa 4 m with secondary canopy formation. Located in hedgerow.	15.6	20+ Years for Cat B	B3

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T242	crack willow - *Salix fragilis*	4	2500	2	Veteran	Collapsed twin stem, extensive hollowing and decay. Pollarded at 3 m establishing secondary growth.	37.5	40+ Years for Cat A	A3
T243	crack willow - *Salix fragilis*	13	1100	16	Mature	Two major limb snapout failures[13]. Habitat holes, twin stem from base. Dense regrowth forming in lower canopy.	13.2	20+ Years for Cat B	B3
T244	white willow - *Salix alba*	12	1500	17	Veteran	Large diameter veteran, longitudinal crack 3 m long. Multiple tear outs, great habitat.	22.5	40+ Years for Cat A	A3
T245	white willow - *Salix alba*	14	2000	29	Veteran	Large diameter veteran previously split in two. Extensive internal decay noted. Two failed limbs, deadwood present.	30	40+ Years for Cat A	A3
T246	white willow - *Salix alba*	14	1800	24	Veteran	Large diameter veteran, less features than previous tree. Stem decay.	27	40+ Years for Cat A	A3
T247	ash - *Fraxinus excelsior*	17	1000	14	Mature	Three stems from base. Sparse canopy but leaves in good condition.	12	20+ Years for Cat B	B2
T248	ash - *Fraxinus excelsior*	16	1200	16	Mature	Multistem from 1 m, moderate deadwood in mid canopy.	14.4	20+ Years for Cat B	B2

[13] A snapout failure is a structural break where a large branch or limb snaps cleanly out from the main stem or trunk, often leaving behind a timber-like or splintered fracture.

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T249	white willow - *Salix alba*	12	1850	16	Veteran	Large open cavity, stem splits into two at 50 cm. Retrenchment in upper canopy, storm damage, previously pollarded.	27.8	40+ Years for Cat A	A3
T250	common oak - *Quercus robur*	10	300	6	Semi-Mature	A young tree of good condition.	3.6	20+ Years for Cat B	B1
T251	common oak - *Quercus robur*	14	800	12	Mature	Mature tree in moderate condition. Minor deadwood noted.	9.6	20+ Years for Cat B	B1
T252	white willow - *Salix alba*	13	1000	13	Veteran	A tree of declining condition.	15	40+ Years for Cat A	A3
T253	horse chestnut - *Aesculus hippocastanum*	12	700	10	Early-Mature	Surveyed from distance, access limited.	8.4	20+ Years for Cat B	B1
T254	common oak - *Quercus robur*	9	510	12	Early-Mature	Tree of good condition with minor deadwood.	6.1	20+ Years for Cat B	B1
T255	common oak - *Quercus robur*	9	320	10	Semi-Mature	A tree of good condition, suppression from adjacent trees.	3.8	20+ Years for Cat B	B1
T256	common alder - *Alnus glutinosa*	8	410	8	Semi-Mature	A tree of good condition.	4.9	20+ Years for Cat B	B1
T257	common oak - *Quercus robur*	8	430	8	Early-Mature	A tree of good condition.	5.2	20+ Years for Cat B	B1
T258	common alder - *Alnus glutinosa*	8	370	6	Semi-Mature	A tree of good condition.	4.4	20+ Years for Cat B	B1

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T259	common oak - *Quercus robur*	9	430	10	Semi-Mature	A tree of good condition.	5.2	20+ Years for Cat B	B1
T260	common alder - *Alnus glutinosa*	9	470	8	Semi-Mature	A tree of good condition, bifurcation at 1 m.	5.6	20+ Years for Cat B	B1
T261	common alder - *Alnus glutinosa*	11	500	11	Semi-Mature	A tree of good condition.	6	20+ Years for Cat B	B1
T262	sweet chestnut - *Castanea sativa*	5	170	4	Young	A tree of good condition.	2	20+ Years for Cat B	B1
T263	common alder - *Alnus glutinosa*	18	500	7	Mature	A tree of very good condition.	6	20+ Years for Cat B	B1
T264	common alder - *Alnus glutinosa*	10	660	11	Early-Mature	A tree of good condition.	7.9	20+ Years for Cat B	B1
T265	sweet chestnut - *Castanea sativa*	7	260	8	Semi-Mature	A tree of good condition suppressed by adjacent trees.	3	20+ Years for Cat B	B1
T266	common oak - *Quercus robur*	12	570	14	Early-Mature	A tree of great condition, minor deadwood.	6.8	20+ Years for Cat B	B1
T267	sweet chestnut - *Castanea sativa*	9	450	12	Early-Mature	A tree of good condition.	5.4	20+ Years for Cat B	B1
T268	common oak - *Quercus robur*	15	600	14	Early-Mature	A tree of good condition.	7.2	20+ Years for Cat B	B1
T269	common oak - *Quercus robur*	14	510	10	Early-Mature	An early mature tree good condition with minor deadwood.	6.1	20+ Years for Cat B	B1

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
T270	ash - *Fraxinus excelsior*	17	1100	20	Mature	Multi stem from base. Four stems. Potential old coppice. Minor deadwood in lower and mid canopy. Crown health is fair.	13.2	20+ Years for Cat B	B2
T271	common oak - *Quercus robur*	15	950	20	Mature	Large mature tree, good condition, minor deadwood.	11.4	20+ Years for Cat B	B1
T272	Turkey oak - *Quercus cerris*	16	820	16	Early-Mature	Roadside tree with open spreading canopy.	9.8	20+ Years for Cat B	B2
T273	common oak - *Quercus robur*	14	1000	20	Mature	No observations recorded	12	20+ Years for Cat B	B1
T274	common oak - *Quercus robur*	12	650	15	Early-Mature	Early mature tree of good condition though its proximity to overhead power lines and transformer park is concerning.	7.8	20+ Years for Cat B	B1
G1	Mixed broadleaves	7	350	4	Early-Mature	Species include blackthorn, ash, and hawthorn.	4.2	20+ Years for Cat B	B2
G2	Mixed broadleaves	14	850	8	Early-Mature	Species include oak, ash, hawthorn, blackthorn, hazel, field maple, and elder.	10.2	20+ Years for Cat B	B2
G3	Mixed broadleaves	17	1000	10	Mature	Predominantly ash, field maple, and hawthorn. Estimated dimensions due to thick undergrowth.	12	20+ Years for Cat B	B2
G4	common oak - *Quercus robur*	17	620	14	Early-Mature	Four trees: three oaks and one Corsican pine (Pinus nigra). One oak with prolific Ivy to upper	7.4	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						canopy. Deadwood less than 75 mm observed. Contorted shape to the pine tree.			
G5	common oak - *Quercus robur*	15	1100	18	Mature	Linear group separating arable fields. Dimensions recorded from northernmost tree.	13.2	20+ Years for Cat B	B2
G6	Mixed broadleaves	15	1000	10	Mature	Species include ash, hawthorn, field maple, apple, oak, hazel, blackthorn, and elder. A Public Right of Way (PRoW) runs centrally to group. Multiple large trees within group. Trees are of varying quality.	12	20+ Years for Cat B	B3
G7	Mixed broadleaves	10	250	4	Semi-Mature	General good condition, great screen to road.	3	20+ Years for Cat B	B2
G8	Mixed broadleaves	15	450	10	Early-Mature	Mixed broadleaf field boundary group.	5.4	20+ Years for Cat B	B2
G9	sycamore - *Acer pseudoplatanus*	18	600	10	Early-Mature	Group screening farmyard from adjacent fields.	7.2	20+ Years for Cat B	B2
G10	sycamore - *Acer pseudoplatanus*	18	600	8	Early-Mature	Group bordering private residence - predominantly sycamore.	7.2	20+ Years for Cat B	B2
G11	Mixed broadleaves	11	450	12	Early-Mature	Private residence group including apple, sycamore, horse chestnut, and blackthorn.	5.4	20+ Years for Cat B	B2
G12	ash - *Fraxinus excelsior*	19	1250	10	Mature	Densely ivy-clad. Major branch failures and wounds with multiple	15	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						failed limbs scattered on the ground. Three large ashes; Stage 1-2 ash dieback[1] observed. Hawthorn understory.			
G13	Mixed broadleaves	14	1250	8	Early-Mature	Mixed, linear group of early-mature trees and hedgerow species. Species include ash and hawthorn. Failures within group, with fungal fruiting bodies observed on some stems. Heavily Ivy-clad.	15	20+ Years for Cat B	B2
G14	Mixed broadleaves	15	400	8	Early-Mature	Mixed broadleaf roadside group.	4.8	20+ Years for Cat B	B2
G15	Mixed broadleaves	17	1000	16	Mature	Ivy covered woodland, including large potential veteran sycamore. Not inspected.	12	20+ Years for Cat B	B2
G16	beech - *Fagus sylvatica*	19	600	12	Mature	A group of 14 mature beech, all of similar moderate condition, no significant features.	7.2	20+ Years for Cat B	B1
G17	Mixed broadleaves	18	1250	12	Early-Mature	Roadside group containing horse chestnut, sycamore, and oak.	15	20+ Years for Cat B	B2
G18	sycamore - *Acer pseudoplatanus*	15	720	8	Early-Mature	Four sycamore. Largest diameter taken.	8.6	20+ Years for Cat B	B2
G19	Mixed broadleaves	12	350	6	Early-Mature	Mixed age group between young and mature. Species include hawthorn, hazel, field maple,	4.2	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						Lombardy poplar (Populus nigra), elder, and willow.			
G20	Mixed broadleaves	14	350	6	Early-Mature	Species include hawthorn, ash, cherry, oak, field maple, alder, sycamore, pine, and birch	4.2	20+ Years for Cat B	B2
G21	Mixed broadleaves	14	350	8	Early-Mature	Species include sycamore, hornbeam, and hawthorn,	4.2	20+ Years for Cat B	B2
G22	Mixed broadleaves	14	350	8	Early-Mature	Species include sycamore, hornbeam, and hawthorn,	4.2	20+ Years for Cat B	B2
G23	common oak - *Quercus robur*	17	950	16	Mature	Two trees. Located on opposite side of roadside ditch with Ivy to approximately 5 m. Previous pruning on roadside and deadwood less than 75 mm.	11.4	20+ Years for Cat B	B2
G24	common oak - *Quercus robur*	10	550	9	Early-Mature	Major deadwood. Field boundary trees.	6.6	20+ Years for Cat B	B2
G25	Mixed broadleaves	13	400	8	Semi-Mature	Species include ash, oak, Lime, cherry, and willow. Private residence group bordering road.	4.8	20+ Years for Cat B	B2
G26	white willow - *Salix alba*	12	850	8	Early-Mature	Linear group of willow within private garden. Separated on west side from road by ditch.	10.2	20+ Years for Cat B	B2
G27	Mixed broadleaves	19	600	12	Early-Mature	Species include sycamore and horse chestnut. Roadside group.	7.2	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
G28	Mixed broadleaves	16	950	16	Early-Mature	Species include sycamore, beech, and elm. Roadside group. Beech is the largest within the group and has a spiralling tear wound on the stem from 4 m to 0.5 m. Set on bank of ditch.	11.4	20+ Years for Cat B	B2
G29	Mixed broadleaves	11	300	6	Early-Mature	Mixed age range from semi mature to mature. Mostly garden species including plum, apple, pear, elder, and ash.	3.6	20+ Years for Cat B	B2
G30	weeping willow - *Salix alba 'tristis'*	20	1050	22	Mature	Species include weeping willow, crack willow, pine, and cherry. Approximately 12 trees. Weeping willow located in garden, with others in open space near blue lagoon. Stem failures and open cavities in base. Failed limbs, crown fractures and hanging limbs. Historic pruning.	12.6	20+ Years for Cat B	B3
G31	white willow - *Salix alba*	16	900	12	Mature	Bordering pond.	10.8	20+ Years for Cat B	B2
G32	Mixed broadleaves	18	700	10	Mature	Species include white willow, hawthorn, and elder. Roadside group. Set on bank of dry water course. Pruning wounds, moderate deadwood, some tip dieback, and habitat holes observed.	8.4	20+ Years for Cat B	B3

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
G33	Mixed broadleaves	23	1200	16	Mature	Species include English oak, turkey oak, white willow, hawthorn, blackthorn, and poplar species. Some individuals have been topped, pruning wounds, snapped branches, moderate deadwood, and cavities observed.	14.4	20+ Years for Cat B	B2
G34	Mixed broadleaves	14	500	12	Early-Mature	Species include ash and sycamore. Forms part of large linear group alongside the road.	6	20+ Years for Cat B	B2
G35	sycamore - *Acer pseudoplatanus*	16	700	14	Mature	Roadside trees.	8.4	20+ Years for Cat B	B2
G36	Mixed broadleaves	15	600	12	Mature	Species include poplar and oak. Private residence boundary group.	7.2	20+ Years for Cat B	B2
G37	Mixed broadleaves	16	700	14	Mature	Mixed species including sycamore, beech, hawthorn, Scot's pine (Pinus sylvestris), horse chestnut, ash, poplar, and cypress.	8.4	20+ Years for Cat B	B2
G38	Mixed broadleaves	16	400	8	Early-Mature	Contains willow, elm, oak, elder, and beech. Plantation style planting.	4.8	20+ Years for Cat B	B2
G39	Mixed broadleaves	21	600	10	Semi-Mature	Semi-mature woodland in good condition, containing lime and sycamore.	7.2	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
G40	ash - *Fraxinus excelsior*	15	750	16	Early-Mature	Ash and sycamore. Cluster of trees within residential garden. Surveyed from a distance.	9	20+ Years for Cat B	2
G41	crack willow - *Salix fragilis*	11	1600	12	Veteran	Four large willows, all collapsed with secondary canopies containing moderate deadwood. Crown cavities, branch snapouts and large amounts of deadwood habitat on collapsed stems. Multiple Ganoderma[4] species at various life stages. Some epiphytes. One large hawthorn.	19.2	40+ Years for Cat A	3
G42	English elm - *Ulmus procera*	14	550	14	Early-Mature	Three roadside trees. Full wide spreading canopies	6.6	20+ Years for Cat B	2
G43	ash - *Fraxinus excelsior*	15	700	14	Mature	Deadwood in mid canopy up to 150 mm and bark damage wounds at base on east side. Dumping of materials in root area. Water dyke to the west.	8.4	20+ Years for Cat B	2
G44	sycamore - *Acer pseudoplatanus*	26	740	12	Mature	Species include Lombardy poplar, sycamore, field maple, ash. Garden trees with road to north.	8.9	20+ Years for Cat B	2
G45	Mixed broadleaves	13	450	10	Early-Mature	Species include lime, Norway maple, holly (Ilex aquifolium), yew (Taxus baccata), and sycamore.	5.4	20+ Years for Cat B	2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
G46	common oak - *Quercus robur*	23	950	17	Mature	Oak and sycamore. Two trees with track to the south. Deadwood up to 150 mm. Clearance pruning of southern branches over garden.	11.4	20+ Years for Cat B	2
G47	sycamore - *Acer pseudoplatanus*	14	1020	16	Mature	One sycamore and one horse chestnut. Prolific Ivy on horse chestnut. Pruning of lower limbs on roadside. Minor deadwood under 75 mm.	12.2	20+ Years for Cat B	2
G48	horse chestnut - *Aesculus hippocastanum*	19	1050	20	Mature	Horse chestnut, sycamore, and lime. Four trees forming a linear group with road to the north and field to the south. Prolific Ivy to upper canopy. Evidence of lower limb pruning and branch failures. Deadwood less than 75 mm observed.	12.6	20+ Years for Cat B	2
G49	white poplar - *Populus alba*	18	900	14	Mature	Linear group on bank top. Multiple snapped limbs and some failed stems. Crown cavities and moderate deadwood.	10.8	20+ Years for Cat B	3
G50	white willow - *Salix alba*	17	1800	18	Mature	Multi-stemmed group of two large diameter white willows, potentially originated as one tree and failed and regrown as two trees sharing one canopy. Major sized deadwood	21.6	20+ Years for Cat B	3

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						retained in canopy. Hangers in canopy and stem fractures.			
G51	white willow - *Salix alba*	15	1000	14	Mature	Old coppice multi stems containing white willow and ash.	12	20+ Years for Cat B	2
G52	Mixed broadleaves	20	950	14	Early-Mature	Woodland strip containing sycamore, beech, elm, ash, cherry, Norway maple (Acer platanoides), and spruce.	11.4	20+ Years for Cat B	2
G53	weeping willow - *Salix alba 'tristis'*	12	470	12	Early-Mature	Group of three garden trees, pine and two weeping willows. Surveyed from track.	5.6	20+ Years for Cat B	2
G54	Mixed broadleaves	16	870	14	Mature	Mixed species includes ash oak, hawthorn, blackthorn. Largest diameter and spread recorded.	10.4	20+ Years for Cat B	2
G55	Mixed broadleaves	16	870	14	Mature	Mixed species includes ash oak, hawthorn, blackthorn. Largest diameter and spread recorded.	10.4	20+ Years for Cat B	2
G56	sycamore - *Acer pseudoplatanus*	18	580	14	Early-Mature	Prolific Ivy on numerous stems to mid canopy. Group divided by river. Species include sycamore, oak, and balsam poplar	7	20+ Years for Cat B	B2
G57	common oak - *Quercus robur*	16	740	12	Mature	Species include oak, sycamore, and larch. Linear group located on northern side of watercourse with field to the north. Deadwood over 250 mm and crown cavities	8.9	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						observed. Dead standing tree within group. Some trees within group heavily leaning over watercourse, up to a 45 degree angle.			
G58	Mixed broadleaves	16	850	16	Mature	Species include oak, ash, and goat willow with trees pruned on eastern side. Deadwood, snapped limbs with *Inonotus* brackets[2] on larger stem ash.	10.2	20+ Years for Cat B	B2
G59	Mixed broadleaves	14	450	6	Early-Mature	Linear group around field boundary with evidence of flailing. Other trees located between field track and M180, with evidence of flailing along trackside.	5.4	20+ Years for Cat B	B2
G60	sycamore - *Acer pseudoplatanus*	16	430	14	Early-Mature	Species include horse chestnut, sycamore, elm, ash, cherry, hazel and hawthorn. Large group of trees with spacing of 3 m. Appears to be unmanaged. Ivy on numerous stems to mid canopy. Evidence of branch fractures and deadwood up to 150 mm.	5.2	20+ Years for Cat B	B2
G61	Mixed broadleaves	20	600	12	Early-Mature	Corner of woodland with moderate deadwood and a dense understorey.	7.2	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
G62	horse chestnut - *Aesculus hippocastanum*	25	1020	10	Mature	Horse chestnut and beech - seven trees. Two trees to northern end of the group on other side of a ditch with ivy on stems. Tags observed on stems. Evidence of mechanical bark damage wounds near base, and past crown lifting. Crown cavities and deadwood up to 150 mm.	12.2	20+ Years for Cat B	B2
G63	sycamore - *Acer pseudoplatanus*	25	1100	14	Mature	Stem sizes range from 660 to 1100 mm. Tag numbers on some trees. Species include sycamore, horse chestnut, ash, and hornbeam - ten trees. Minor basal cavities in some trees, crown cavities, pruning wounds and deadwood up to 150 mm.	13.2	20+ Years for Cat B	B2
G64	sycamore - *Acer pseudoplatanus*	24	800	20	Mature	Species include horse chestnut, sycamore, lime, weeping willow, Corsican pine, Lombardy poplar, beech, and holly. Located within garden with evidence of past crown management. Deadwood up to 150 mm with crown cavities.	9.6	20+ Years for Cat B	B2
G65	crack willow - *Salix fragilis*	18	700	16	Early-Mature	Mixed broadleaf woodland. Limited access. Species include crack willow, oak, and hawthorn.	8.4	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
G66	Mixed broadleaves	12	800	14	Early-Mature	Mature woodland mostly in good condition. Ash is dying.	9.6	20+ Years for Cat B	B2
G67	common oak - *Quercus robur*	12	800	16	Early-Mature	A group of 17 mature oak, all in moderate condition with some dieback/deadwood present.	9.6	20+ Years for Cat B	B1
G68	common oak - *Quercus robur*	16	770	15	Mature	Prolific Ivy on the three tree stems, with minor deadwood throughout.	9.2	20+ Years for Cat B	B2
G69	sycamore - *Acer pseudoplatanus*	16	920	12	Early-Mature	Linear group, next to ditch at south side. Minor deadwood and pruning wounds.	11	20+ Years for Cat B	B2
G70	Mixed broadleaves	17	550	12	Early-Mature	Surveyed from distance. Private residence group. Species include willow, beech, cherry, and elder.	6.6	20+ Years for Cat B	B2
G71	ash - *Fraxinus excelsior*	16	400	20	Early-Mature	Species include ash, oak, willow, and hawthorn. Linear group on steep bank between farm access road and stream. Evidence of ash dieback. Prolific Ivy to mid canopy on high proportion of stems with moderate size deadwood and crown cavities.	4.8	20+ Years for Cat B	B2
G72	Mixed broadleaves	14	450	14	Early-Mature	Mixed broadleaf group including ash and hawthorn. PRoW running through group.	5.4	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
G73	Mixed broadleaves	14	450	14	Early-Mature	Mixed broadleaf group with public footpath running through. Species include ash and hawthorn.	5.4	20+ Years for Cat B	B2
G74	crack willow - *Salix fragilis*	13	550	14	Early-Mature	14 stems with minor deadwood.	6.6	20+ Years for Cat B	B2
G75	crack willow - *Salix fragilis*	17	650	10	Early-Mature	Species include crack willow, weeping willow, blackthorn, cypress, and ash. Pruning of lower branches, conifers previously topped. Screening for private residence. On canal side bank.	7.8	20+ Years for Cat B	B2
G76	sycamore - *Acer pseudoplatanus*	16	750	10	Mature	Mature ash canopy with predominantly blackthorn and hawthorn understory – approximately 3 m spacing. Also contains willow, sycamore, and hazel. Basal decay cavities, storm damage fractures, moderate deadwood and crown cavities observed. Prolific Ivy. flailed on north and south sides.	9	20+ Years for Cat B	B3
G77	sycamore - *Acer pseudoplatanus*	16	610	16	Early-Mature	Linear group of six trees acting as a farmyard shelter belt. Minor deadwood.	7.3	20+ Years for Cat B	B2
G78	ash - *Fraxinus excelsior*	17	720	14	Mature	Adjacent to a small brook. Species include hazel, hawthorn blackthorn, and elder.	8.6	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
G79	ash - *Fraxinus excelsior*	16	800	10	Mature	Ivy clad, with minor deadwood.	9.6	20+ Years for Cat B	B2
G80	ash - *Fraxinus excelsior*	21	600	10	Mature	Mixed group, predominantly ash but also contains oak. Ivy clad stems, understory of hawthorn and hazel,	7.2	20+ Years for Cat B	B2
G81	common oak - *Quercus robur*	16	480	14	Early-Mature	Contains ash, cherry, field maple, hawthorn and blackthorn. Dense woodland with moderate deadwood, crown cavities and 2.5 m spacing.	5.8	20+ Years for Cat B	B2
G82	common lime - *Tilia x europaea*	15	580	16	Early-Mature	Horse chestnut, plane, lime, and Norway maple forming an avenue either side of hard surfaced track. Large pruning wounds and crown cavities. Minor deadwood.	7	20+ Years for Cat B	B2
G83	ash - *Fraxinus excelsior*	10	850	14	Mature	Three lapsed coppice stools; two ash and one oak.	10.2	20+ Years for Cat B	B3
G84	ash - *Fraxinus excelsior*	14	1000	16	Mature	Adjacent to drain. Minor deadwood. Willow appears to be pollarded at circa 1 m.	12	20+ Years for Cat B	B2
G85	ash - *Fraxinus excelsior*	18	600	10	Early-Mature	Appears to be a traditional coppice woodland, includes field maple and elm.	7.2	20+ Years for Cat B	B3
G86	common oak - *Quercus robur*	12	1000	8	Early-Mature	Good condition group of field boundary trees.	12	20+ Years for Cat B	B1

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
G87	crack willow - *Salix fragilis*	16	660	14	Early-Mature	Woodland strip on either side of a ditch with willow, ash, hawthorn, hazel and oak.	7.9	20+ Years for Cat B	B2
G88	lombardy poplar - *Populus nigra 'italica'*	24	400	6	Early-Mature	Viewed from road, survey limited. Road to south, private residence to north.	4.8	20+ Years for Cat B	B2
G89	ash - *Fraxinus excelsior*	16	630	12	Mature	Contains ash, hawthorn, crab apple and blackthorn. Trees generally set on southern side of ditch. Prolific Ivy and moderate deadwood. Canopy cavities and exposed root flares.	7.6	20+ Years for Cat B	B2
G90	common pear - *Pyrus communis*	9	460	10	Mature	Six trees planted in a line with 6 m spacing. Stem and crown cavities, snap wounds and minor deadwood with no recent crown management.	5.5	20+ Years for Cat B	B2
G91	ash - *Fraxinus excelsior*	16	850	12	Mature	Mixed species including field maple, apple, oak, elder, and hawthorn.	10.2	20+ Years for Cat B	B2
G92	hawthorn - *Crataegus monogyna*	14	480	12	Mature	Linear lapsed managed hedgerow of mature hawthorn parallel to road. Ash and field maple also present in group.	5.8	20+ Years for Cat B	B2
G93	common oak - *Quercus robur*	15	630	12	Early-Mature	Contains ash and oak.	7.6	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
G94	white willow - *Salix alba*	16	1100	14	Mature	Prolific Ivy to mid canopy. Crown cavities. Multi stemmed with large limb failure.	13.2	20+ Years for Cat B	B3
G95	common oak - *Quercus robur*	14	530	14	Early-Mature	Roadside group of four stems. Pruning wounds on stem and damaged snapped lower limbs. Minor deadwood.	6.4	20+ Years for Cat B	B2
G96	ash - *Fraxinus excelsior*	19	1050	18	Mature	Beck side group predominantly ash, oak, and hawthorn. Multiple crown cavities throughout mature tree. Numerous stems with prolific Ivy. Dense undergrowth. Moderate deadwood. *Inonotus* brackets[2] on ash. Beehive in an ash in stem of ash at 4 m.	12.6	20+ Years for Cat B	B3
G97	Mixed broadleaves	17	500	14	Early-Mature	Access limited viewed from distance. group providing screening from road. Species include horse chestnut, sycamore, and ash.	6	20+ Years for Cat B	B2
G98	crack willow - *Salix fragilis*	15	1100	14	Mature	Linear group of three willow and one ash. Crown management on track side. Adjacent to creek. Longitudinal cracks, crown cavities and partial limb failure on willows.	13.2	20+ Years for Cat B	B3
G99	crack willow - *Salix fragilis*	18	1300	16	Mature	Four trees; three willow and one ash. Moderate deadwood, longitudinal cracking, branch	15.6	20+ Years for Cat B	B3

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
						failures. Fungal brackets and habitat holes and slime flux[14] on ash. Significant stem failure on northern willow.			
G100	Mixed broadleaves	23	500	12	Mature	Viewed from distance due to limited access. Provides screening to garden from road.	6	20+ Years for Cat B	B2
G101	weeping willow - *Salix alba 'tristis'*	12	550	16	Early-Mature	No access - surveyed from a distance. Linear group of weeping willow running parallel to driveway	6.6	20+ Years for Cat B	B2
G102	weeping willow - *Salix alba 'tristis'*	12	550	14	Early-Mature	No access - surveyed from a distance. Linear group of weeping willow running parallel to driveway.	6.6	20+ Years for Cat B	B2
G103	white willow - *Salix alba*	15	730	12	Mature	Surrounding a pond. Estimated from adjacent field.	8.8	20+ Years for Cat B	B3
G104	crack willow - *Salix fragilis*	13	950	14	Mature	Linear group within hedgerow. Ivy to mid canopy. Crown cavities and basal hollowing.	11.4	20+ Years for Cat B	B2
W1	Mixed broadleaves	17	600	8	Early-Mature	Hawthorn, apple and blackthorn hedge boundary which appears to predate group. Mainly sycamore group.	7.2	20+ Years for Cat B	B2

[14] Slime flux is a common tree disease caused by internal bacterial fermentation that forces foul-smelling, fermented sap to ooze out through cracks or wounds in the bark. It affects hardwoods like elm, oak, birch, and maple, but rarely kills the tree outright.

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
W2	Mixed broadleaves	17	600	11	Early-Mature	Predominantly sycamore and ash. Ivy on stems. Bramble undergrowth.	7.2	20+ Years for Cat B	B2
W2	Mixed broadleaves	17	600	11	Early-Mature	Predominantly sycamore and ash. Ivy on stems. Bramble undergrowth.	7.2	20+ Years for Cat B	B2
W3	Mixed broadleaves	16	500	6	Early-Mature	Semi mature woodland on steep escarpment.	6	20+ Years for Cat B	B2
W4	Mixed broadleaves	16	400	4	Semi-Mature	Planted woodland on steep slope.	4.8	20+ Years for Cat B	B2
W5	ash - *Fraxinus excelsior*	19	700	18	Mature	Species include ash, birch, elm and hawthorn. Spacing 10 m.	8.4	20+ Years for Cat B	B2
W6	Mixed broadleaves	15	500	12	Early-Mature	Observed from distance due to restricted access.	6	20+ Years for Cat B	B2
W7	Mixed broadleaves	18	500	4	Mature	A mature woodland of good condition.	6	20+ Years for Cat B	B2
W8	Mixed broadleaves	18	500	4	Mature	A mature woodland of good condition.	6	20+ Years for Cat B	B2
W9	Mixed broadleaves	13	500	8	Early-Mature	Ash, sycamore, oak, field maple, birch, and cherry.	6	20+ Years for Cat B	B2
W10	ash - *Fraxinus excelsior*	25	980	12	Mature	Mainly mature ash, sporadic oak, and an understory of willow. Some field maple and hawthorn. Ash dieback[1] present. Large stem fractures within group.	11.8	20+ Years for Cat B	B2

Ref.	Species	Height (m)	Stem dia. (mm)	Crown spread (m)	Life stage	Tree condition notes and observations	RPA rad. (m)	Estimated remaining contribution (Years)	BS 5837 category
W11	common oak - *Quercus robur*	18	750	20	Mature	Predominantly mature oak woodland with mature hawthorn and hazel. Also contains ash and is bounded by blackthorn understory on the eastern edge.	9	20+ Years for Cat B	B2

Bibliography

British Standards Institution. (2012). *BS 5837:2012 Trees in relation to design, demolition and construction: Recommendations.* London: British Standards Institution.

Appendix D Arboricultural Impact Plan

nationalgrid

N

Legend

- Order Limits
- Map Sheet
- Route Section
- Local Authority Boundary

East Riding of Yorkshire Council

North Lincolnshire Council

Route Section A

Route Section B

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0 1.5 3 4.5 6 km

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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN KEY PLAN - ROUTE SECTION A

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Route Section A
Route Section B
Route Section B
Route Section C

51
52
53
54
55
56
57
58
59
60
61
62
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64
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66
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76
81

East Riding of Yorkshire Council
North Lincolnshire Council

Legend

- Order Limits
- Map Sheet
- Route Section
- Local Authority Boundary

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN KEY PLAN - ROUTE SECTION B

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Legend

- Order Limits
- Map Sheet
- Route Section

Route Section B
Route Section C
Route Section C
Route Section D

CROWLE AND EALAND CP
ISLE OF AXHOLME
KEADBY WITH ALTHORPE CP
BELTON CP

75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92

11 12 13 14

0 0.5 1 1.5 2 km

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Rev	Date	Description	GIS	Chk	App
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nationalgrid

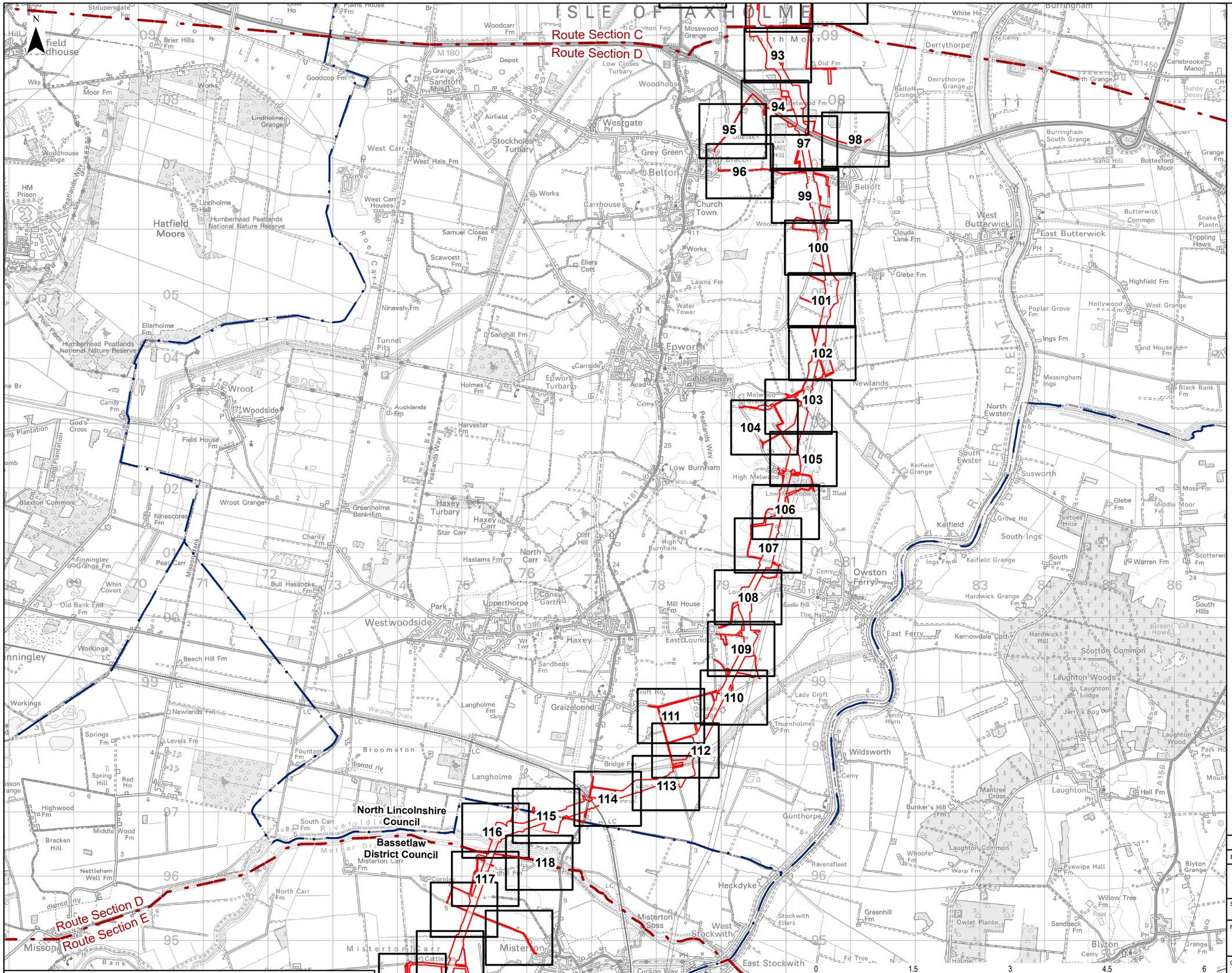
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN KEY PLAN - ROUTE SECTION C

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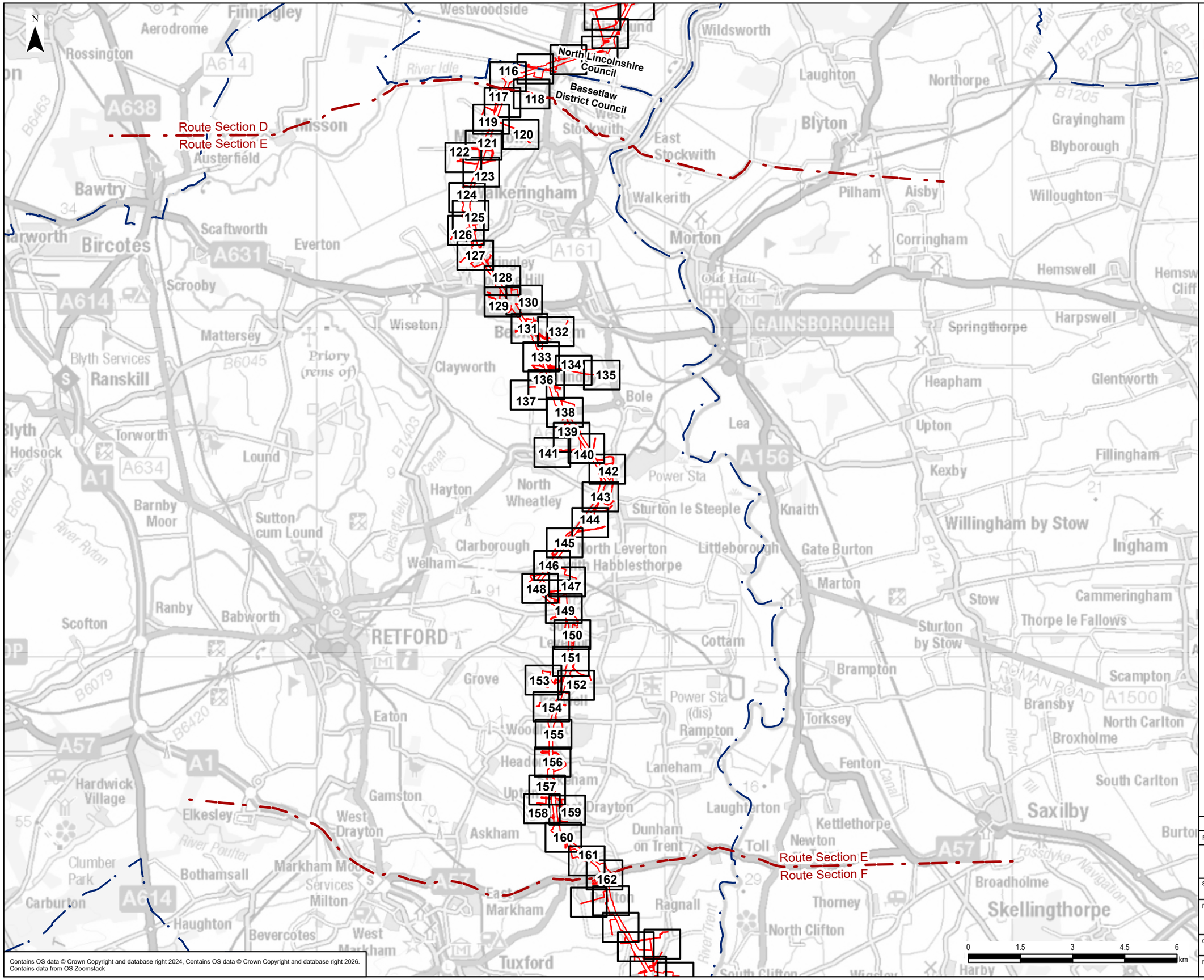
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Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN KEY PLAN - ROUTE SECTION D

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Legend

- Order Limits
- Map Sheet
- Route Section
- Local Authority Boundary

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nationalgrid

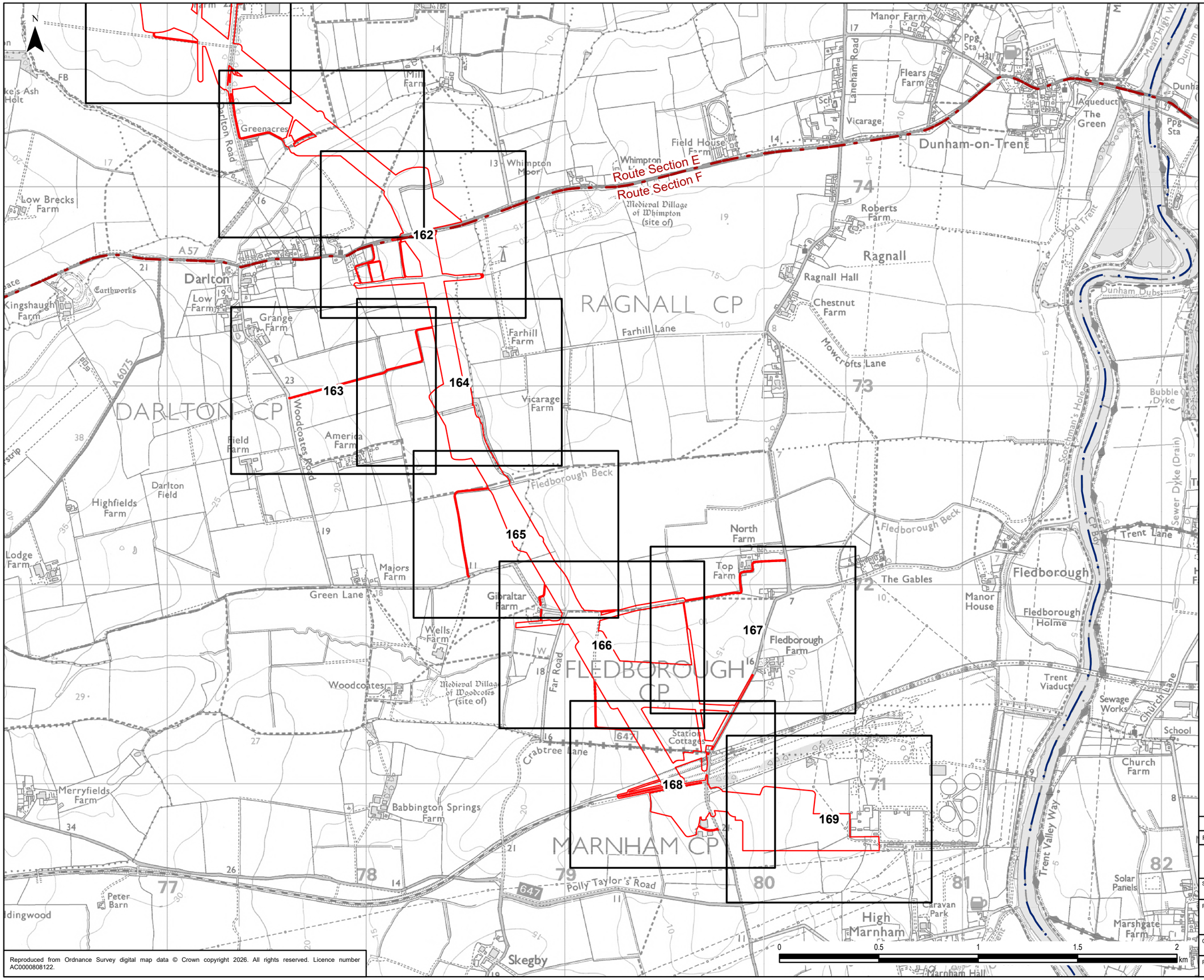
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Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN KEY PLAN - ROUTE SECTION E

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Legend

- Order Limits
- Map Sheet
- Route Section
- Local Authority Boundary

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN KEY PLAN - ROUTE SECTION F

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N

Def
Track
Lay-by
ETL
El Ps
Def
Co Const
Ward Bdy
Drain
Path (um)
G1
Def
Path (um)
Gas
Distribution
Sta
ETL
Def
Mouse Hill
Track
Drain
Drain
Pond
G2
Pond
Track
18.0m
Drain
Drain
Jillywood
Farm
Def
Tennis Court
Sheet 1 and 2
Pond

0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

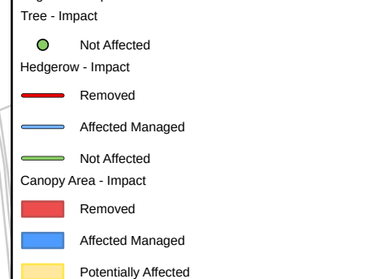
Hedgerow - Impact

- Removed
- Affected Managed
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Sheet 1 and 2

Sheet 2 and 5

Sheet 2 and 3

Drain
Tennis Court
Pond
Drain
Drain
FB
Track
18.0m
16.5m
Track
Pond
Track
Drain
Pond
Poplar Farm
Def
Pond
Pond
Pond
Jill Woods
Drain
RH
Drain
Path (
Wind Turbine
16.2m

4AF1
4AF2
4AF3
4AF4
4AF5
4AF6

T3
T4
T5
T6
T7
T8
T9
T10
T11
T12
T13
G5

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Gantry
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Affected Managed
- Potentially Affected

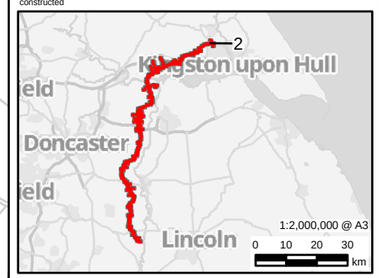
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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Scheme: NORTH HUMBER TO HIGH MARNHAM

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0 50 100 150 200 m

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N

ETL

Drain

Drain

ETL

Drain

4AF2

4AF1

4AF3

Wind Turbine

Track

Def

Drain

Pond

Co Const & Ward Bdy

Def

RH

Drain

T1

Track

FB

G3

Def

Pond

Drain

ETL

Pond

Drain

Sheet 2 and 3

13.4m

Drain

Wanless Farm

Wanlass Beck

Path (um)

Drain

Track

ESS

Site

Distribution

Sheet 3 and 4

10.7m

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Gantry
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Removed
- Potentially Affected
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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N

Sheet 3 and 4

Cottingham Parks

ETL

4ZQ110

10.7m

4ZQ111

11.3m

4ZQ113

4ZQ112

ETL

ETL

Site

Distribution

13.4m

Drain

2.8m

Pond

ETL

T2

14.0m

Burn Park

Cottages

Pond

Drain

Path (um)

Path (um)

(Electricity Storage Site)

Creyke Beck

Creyke Beck Peaking

Power Plant

Drain

Shaft (cov)

Crowle Park

Shaft (cov)

Wanlass Beck

Shaft (cov)

Drain

Drain

Drain

G4

Gas Gov

Drain

Tanks

RH

Pond

Def

Oaklands

Drain

Silo

Tanks

Track

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)

Vegetation Impact

Tree - Impact

- Not Affected

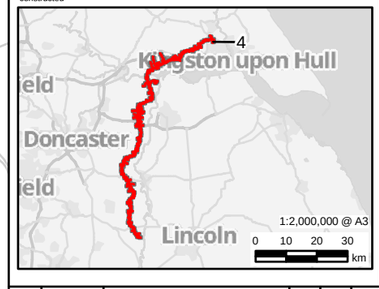
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Not Affected

NOTE:
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N

LAT GATE

GP

53.5m

39.0m

43.2m

T16

Platwoods Fields

ETL

T15

Sheet 2 and 5

G6

4AF9

4AF8

4AF7

G7

T14

W1

Track

Pp

Platwood Farm

40.2m

Sheet 5 and 6

Platwoods Bar

Plantation

ETL

Drain

Pond

El Ps

Def

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category A / B Wood
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Not Affected

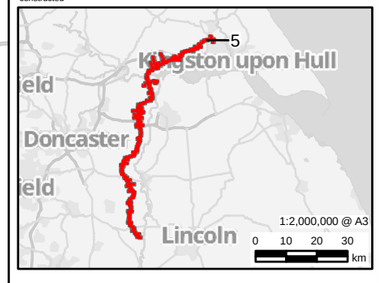
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
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Figure Ref:	Scale:	Format:	Sheets:	Rev:
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N

Path (um)
Fish Pond
Fishpond Wood
The Folly
Car Park
Gorse Plantation
Track
Folly Wood
Track
Pond
Old Moor
Track
Track
Fish Pond
Track
Old Moor
Pond
Medieval Village of Risby
(site of)
53.4m
55.2m
Park Farm
Sheet 6 and 7
Pond
DUNFLAT GATE
GP
43.2m
46.8m
T16
W2
T17
51.0m
51.0m
T18
4AF10
Sheet 5 and 6
T19
4AF11
T20
T21
Def
Def
4AF12
OLDGATE (TYPE 1 CROSSING)
0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Wood
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Not Affected

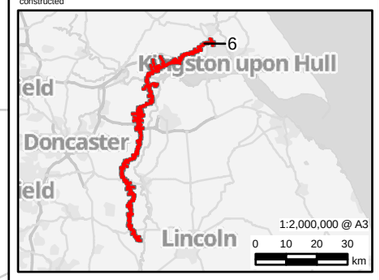
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title:

FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

Pond

Pond

Medieval Village of Risby (site of)

Park Farm

55.2m

56.7m

57.3m

Tank

Sheet 6 and 7

Path (um)

4AF13

4AF14

Risby Head

Path (um)

Sheet 7 and 8

ETL

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

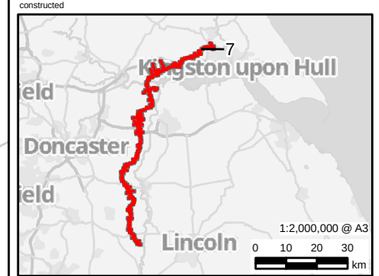
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Not Affected

NOTE:
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N

Potter Dale

77.4m

89.0m

88.7m

85.0m

Ralph Nook

79.3m

Walk House

Sheet 7 and 8

4AF15

4AF16

4AF17

Track

Sheet 8 and 9

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Not Affected

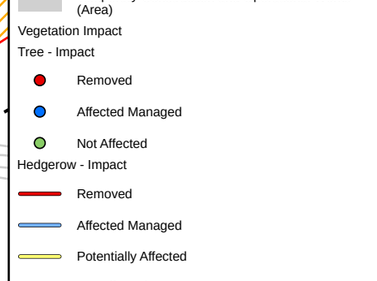
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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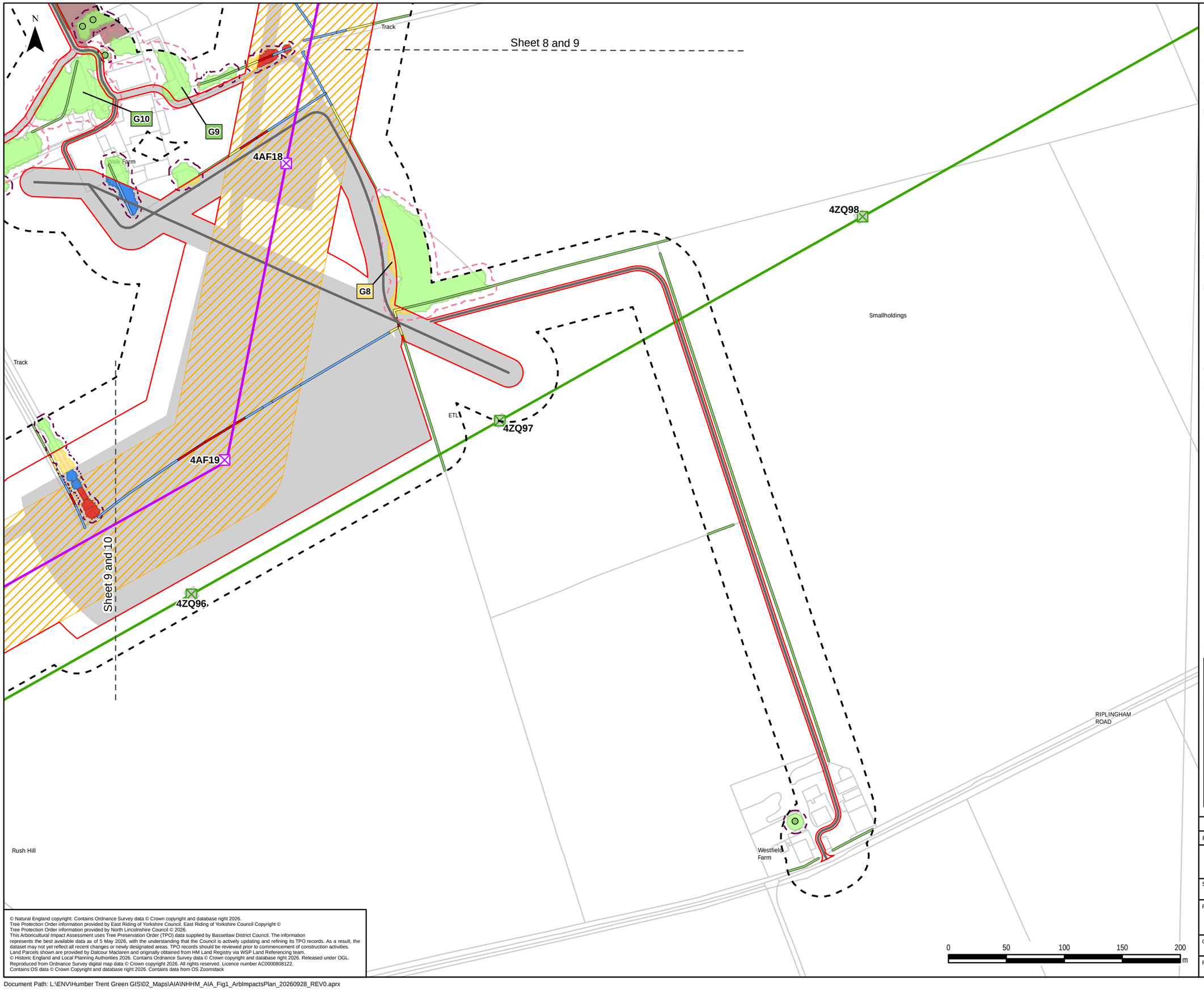
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

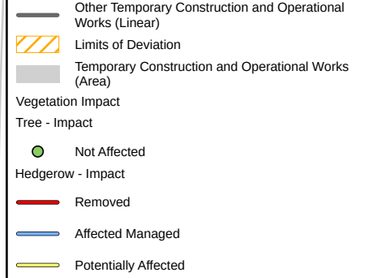
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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N

Def

ed

Cliff

Cliff

Baulk

Track

Track

Track

Track

Rush Hill

Bottoms Road

ETL

Walk Farm

G11

G10

G9

4AF19

4AF20

4AF21

4ZQ94

4ZQ95

4ZQ96

Sheet 9 and 10

Sheet 10 and 11

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Potentially Affected
- Not Affected

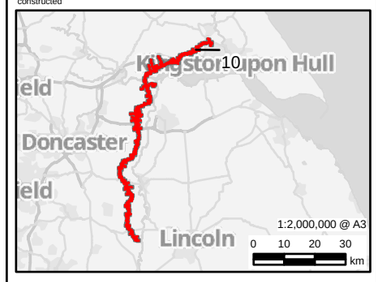
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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N

Sheet 11 and 12

Sheet 10 and 11

Track

4AF21

4AF22

4AF23

4ZQ92

4ZQ93

4ZQ94

4ZQ95

ETL

G12

G13

T22

Def

Track

Def

Track

k

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

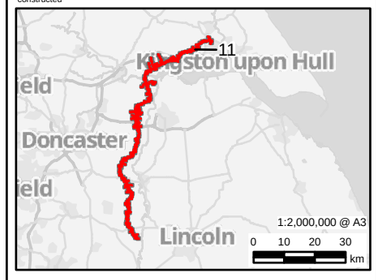
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Potentially Affected
- Not Affected

NOTE:
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N

Garage
South Garth
LILAC GROVE
The Cottage
LB
NEW VILLAGE ROAD
Dismantled Railway
ROWLEY ROAD
BRACKENWOODS
Redwood
Lodge
Cliff
Larch Lodge
Willow
Lodge
Yew Lodge
Holly
Studio
Rowan
Sycamore
Lodge
Lodge
Walnut
Lodge
Lodge
Lodge

N

Rowley Manor Hotel

104.9m

Plantation

Sheet 12 and 13

Socken Wood

Track

4AF24

4ZQ91

4AF25

4ZQ90

ETL

Def

Track

4AF26

T23

4ZQ89

4ZQ88

Path (um)

Sheet 13 and 14

Def

Tumulus

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Potentially Affected
- Not Affected

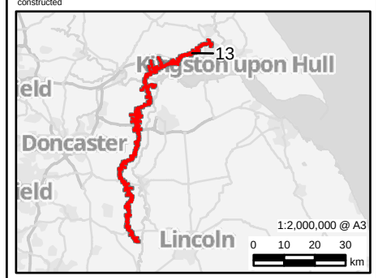
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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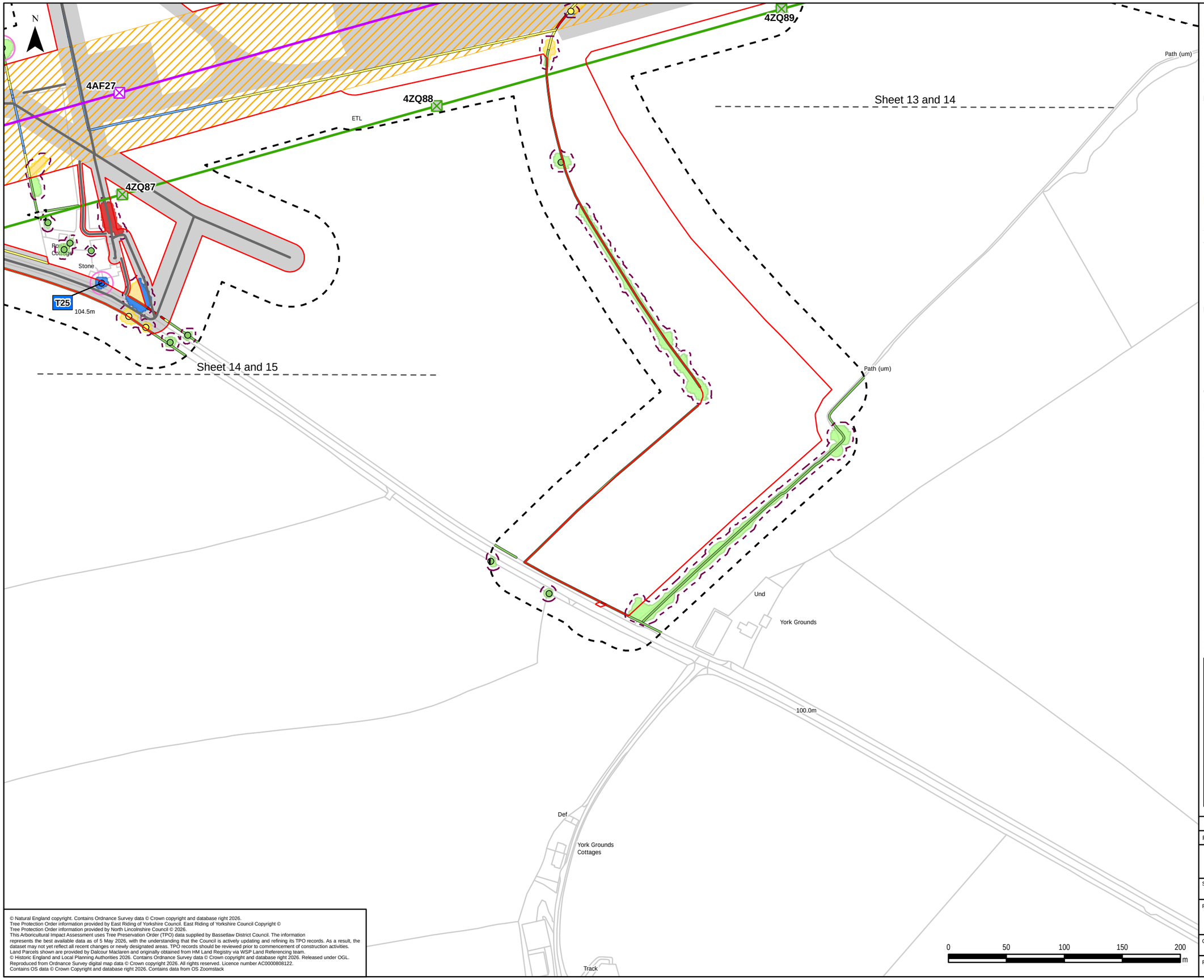
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Potentially Affected
- Not Affected

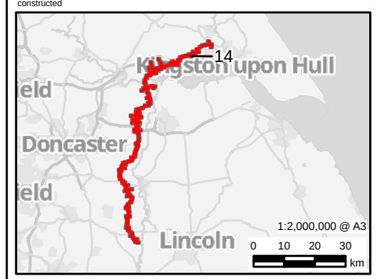
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

Track

Pond

Rowley Cottages

110.6m

114.6m

G15

114.8m

T24

4AF27

4ZQ88

ETL

Sheet 15 and 16

Hopper

Manor Farm

Hill View

123.4m

ROWLEY ROAD

4AF28

Pond

108.2m

4ZQ87

Rowley Cottage

Stone

T25

104.5m

4ZQ86

ETL

Sheet 14 and 15

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

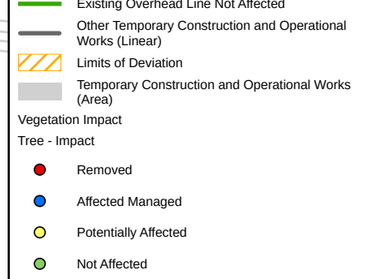
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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nationalgrid

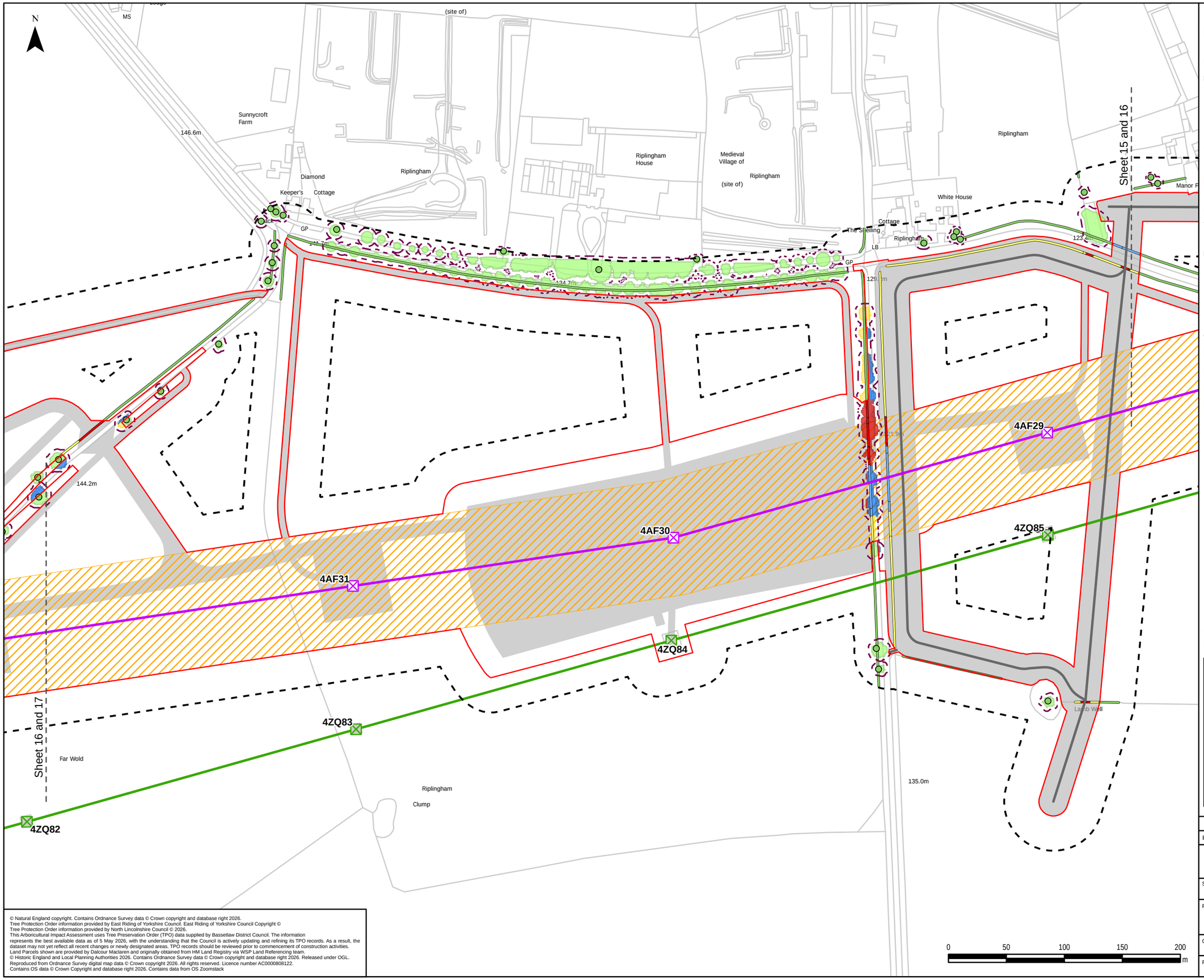
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

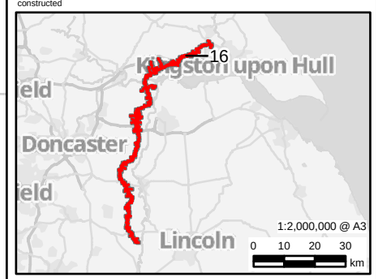
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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nationalgrid

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N

Great Wold

Fox Covert Farm

Def

Ellerker North Wold

Track

Sheet 17 and 18

Ellerker North Wold

4AF33

4AF34

4AF35

4AF32

W3

4ZQ80

4ZQ81

4ZQ82

DALE ROAD

134.7m

108.8m

98.5m

79.2m

ETL

Path (um)

Sheet 16 and 17

Far Wold

Brantingham Wold

0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Wood
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconductored
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Potentially Affected
- Not Affected

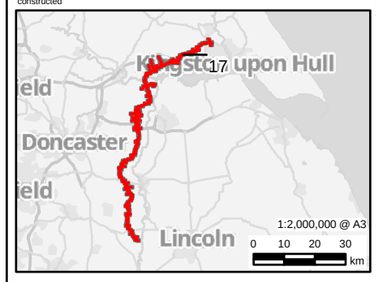
Hedgerow - Impact

- Removed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Airstrip

Woodale Plantation

Track

The Warren

Track

Sheet 17 and 18

Ellerker

North Wold

4AF35

4AF36

4ZQ79B

4ZQ79A

4AF37

W5

W4

Track

The Warren

Track

Dale

Woo

Sheet 18 and 19

62.5m

Track

Track

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Wood
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon To Be Modified
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line to be Reconductored
- Existing Overhead Line to be Dismantled
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

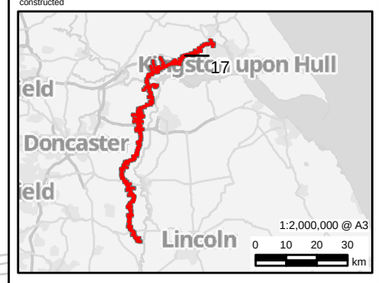
Hedgerow - Impact

- Removed
- Affected Managed
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Turbine

W5

4AF36

4ZQ79B

4ZQ79A

4AF37

The Warren

Track

Woo

Dale

Sheet 18 and 19

62.5m

W4

Woodale

Spring

Woo Dale

House

ELLERKER WOLD LANE (TRACK)

Pond

4ZQ78

Waltham's Wold

Ellerker North Wold

Path (um)

Brantingham Dale Plantati

56.7m

DALE ROAD

4AF38

Drain

Woodale Farm

T26

T30

T34

T27

G16

4ZQ77

T28

T33

T31

T32

Track

52.1m

Manhole

North Wold

Ellerker

ETL

Def

Drain

Sheet 19 and 20

ELLERKER WOLD LANE

W8

Middle Belt

0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category A / B Wood
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon To Be Modified
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line to be Reconductored
- Existing Overhead Line to be Dismantled
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Not Affected

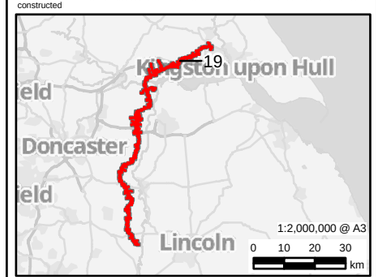
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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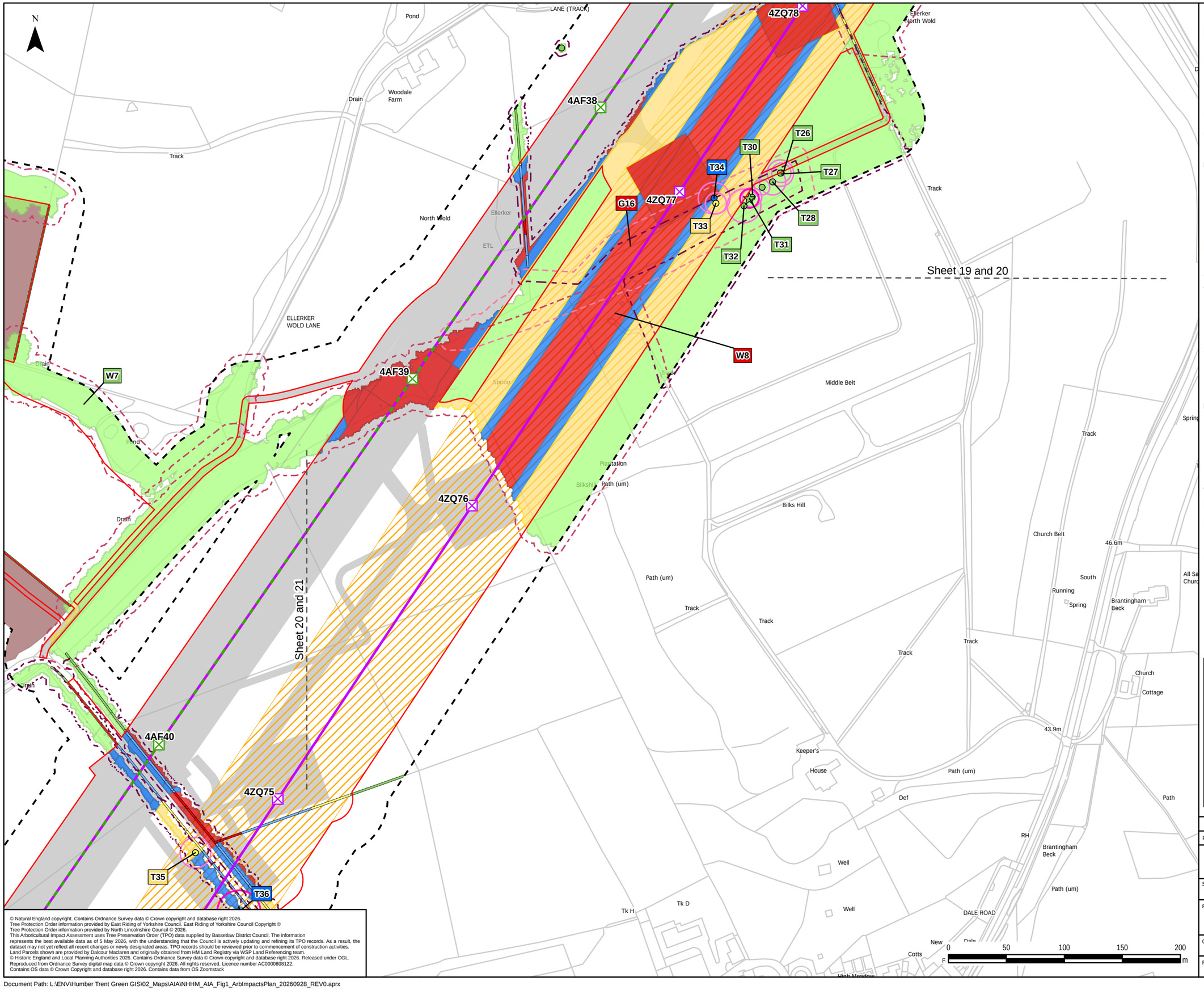
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category A / B Wood
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

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- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line to be Reconductored
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Affected Managed
- Not Affected

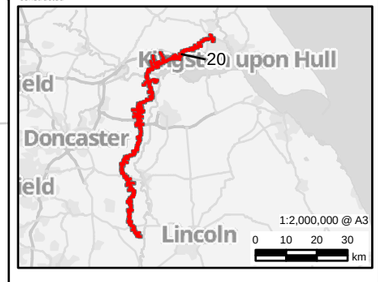
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
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N

Pond
Spring
Rowdales
Airy
ess Park
A63
Mount Airy House
Track
Drain
Woodale Farm
Woo Dale House
ELLERKER WOLD LANE (TRACK)
Pond
Drain
North Wold
Ellerker
ETL
ELLERKER WOLD LANE
Spring
Bilkshill
Drain
Pond
Drain
Drain

W6
W7
4AF38
4AF39
4ZQ76
4AF40
4ZQ75
T35
T36

Sheet 20
Sheet 20 and 21
Sheet 21 and 22

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category A / B Wood
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon To Be Modified
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line to be Reconductored
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Affected Managed

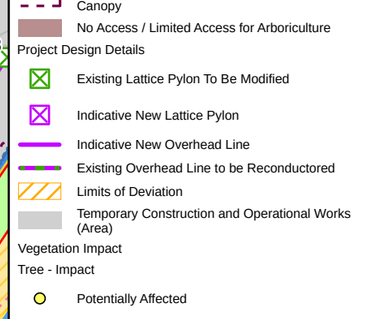
Hedgerow - Impact

- Removed
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- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
1	1:3,000	A3	21 OF 169	0

Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\AIA\NHHM_AIA_Fig1_ArbImpactsPlan_20260928_REV0.aprx

Sheet 21 and 22

N

ROMAN ROAD
21.3m
Drain
Track
Ring Beck
Wold View
Greenslates
LB
Holmfield
The
Eagles
Garden
Centre
Tanks
Pond
Track
ETL
Track
Drain
Def
Track
ROMAN ROAD
21.6m
Track
Moorstile
Balk
Def
Sheet 22 and 23

T35
T36
G17
T37
T38
4AF41
4ZQ74
G18
T39
4AF42
4ZQ73
W9

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category A / B Wood
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon To Be Modified
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line to be Reconductored
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Affected Managed

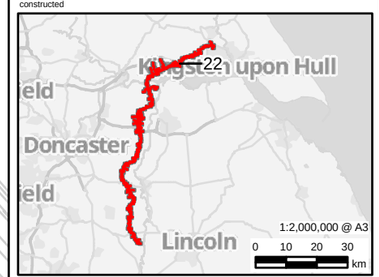
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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Sheet 22 and 23

Sheet 23 and 24

G19

Lay-by

Path (um)

ROMAN VILLA

(site of)

Path (um)

Track

Track

Issues

Lay-by

GP

Drain

Drain

THE OUTGANG

25.0m

18.9m

ETL

Trinity
House Land

Tank

18.3m

Trinity
Fields

Farm

Solar Panels

ROMAN ROAD

Tank

ESS

El Sub Sta

Sand Field

Nurseries

Tanks

Drain

Tank

Tank

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category A / B Wood
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Other Temporary Construction and Operational Works (Linear)
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Not Affected

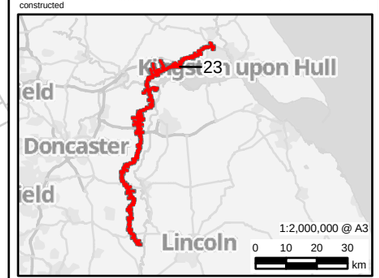
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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nationalgrid

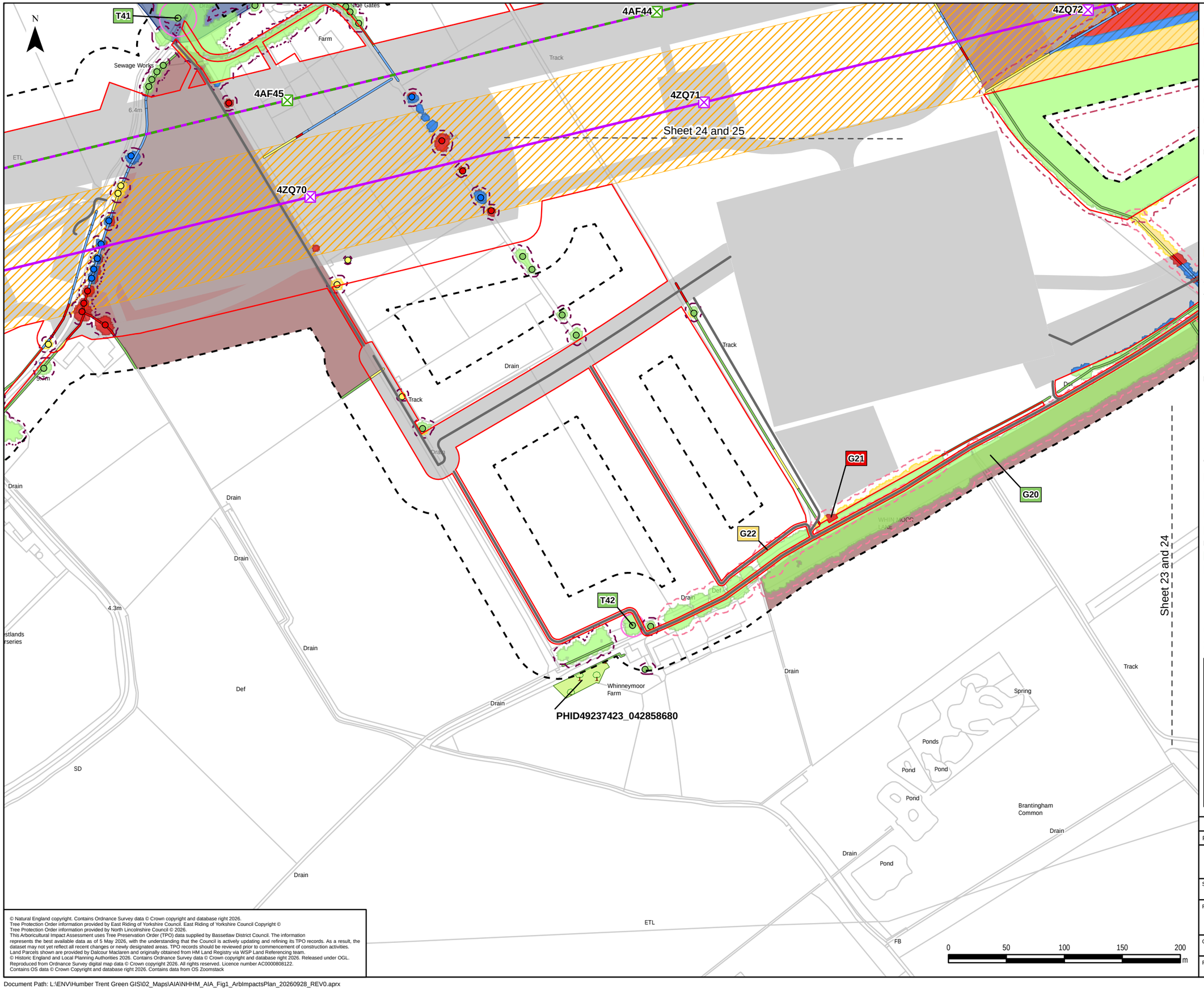
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category A / B Wood
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon To Be Modified
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line to be Reconductored
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

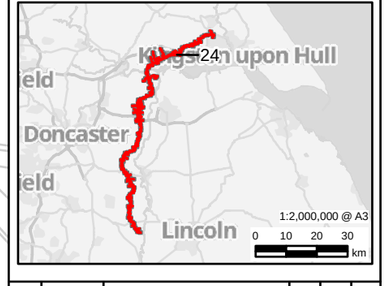
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Traditional Orchard
- Conservation Area

NOTE:
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nationalgrid

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Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\AIA\NHHM_AIA_Fig1_ArbImpactsPlan_20260928_REV0.aprx

N

Ellerker Conservation Area

Sheet 25 and 26

Sheet 24 and 25

T40

T41

4AF43

4AF44

4AF45

4ZQ71

4ZQ72

W9

MILL HILL

MAIN STREET

CHURCH LANE

SANDS LANE

TODD'S LANE

CROFT HILL

RING BECK LANE

ETL

Track

Sewage Works

Ellerker Beck

Path (um)

Cavegates

Pond

The Old Byre

Stone Cott

Mill House

Millfield House

Pump

Rose Cottage

Croft Garth

Lynefield

Satis House

Ebenezer House

Forsythia Cottage

Farm House

Manor

Stonebeck House

Ellerker Manor House

South View

Rosedene

Brookside

Sunnyside

Horseshoe

Elmsall

Cott

Fern

Hall

Ellerker

North Lodge

Hazel House

Beckside Cottage

Florins Cottage

Micawber Cottage

Play Area

South Lodge

The Granary

Wood View Cott

Woodbine Cottages

Path (um)

Ings House

Bracken Cottage

Brookholme House

Little Beck House

Peartree House

Farm

Garth

Sixpenny Cott

Sandycroft

Cottage

Dodie

Drain

The Gates Farm

Pigeon Cote Farm

Rosemount

Ashcroft

Howden

Howden Croft

Wykeham

Mayflower

Hill Top

Avanti

Croft Hill Cottage

Croft Cottages

The School House

Allotment Gardens

Track

Ellerker House

Appleton House

St Anne's Church

Sebastopol Cottage

Club

Cottage

Amen

Path

Fircroft

Rise Garth

Overhill

Penny School

LB

Croft Garth

Ashley

Willow

Weir

Drain

Pond

Wold View

Greenslates

Ringbeck House

Holmfield

LB

The Eagles

Belvedere

Ellerker House

20.2m

Overhills

Track

11.7m

12.0m

16.8m

20.0m

21.1m

10.7m

10.0m

9.5m

8.8m

8.0m

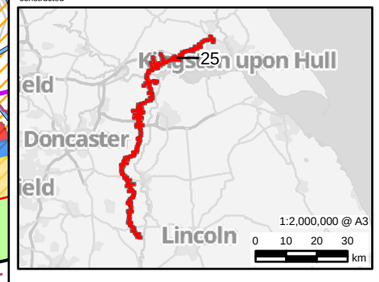
6.4m

FB

GP

TCB

White House Farm



Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category A / B Wood
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon To Be Modified
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line to be Reconductored
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Conservation Area

NOTE:
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

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1	1:3,000	A3	25 OF 169	0

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0 50 100 150 200 m

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N

T43
T44
T45
T46
T47

4AF46
4AF47
4AF48
4ZQ67
4ZQ67T
4ZQ68
4ZQ69

Ellerker Conservation Area

Sheet 25 and 26

Sheet 26 and 27

Wellington Lodge
Tank
Track
Ings
Lane Nurseries
Track
Pond
Nurseries
FB
Drain
Ellerker Beck
Wind Turbine
Pond
Ellerker Ings
Ellerker Ings
ETL
Def
Drain
ETL
Ellerker Beck
Pond
Drain
FB
Ings Drain
Ellerker Ings
Track
Drain
Tank
Drain
Drain
Westlands Nurseries
Drain
SD

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon To Be Modified
- Existing Lattice Pylon To Be Removed
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line to be Reconductored
- Existing Overhead Line to be Dismantled
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Potentially Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

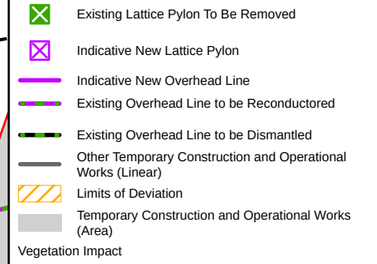
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Conservation Area

NOTE:
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nationalgrid

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1	1:3,000	A3	26 OF 169	0

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N

Drain

Pond

4.2m

CS

3.9m

Def

Sheet 27 and 28

Drain

Cave Ings

Walling Fen

Cave Common

T50

T51

T52

4AF51

4AF50

4AF49

4ZQ67T

4ZQ66T

3.9m

4ZQ65T

ENT

GS LANE

4ZQ66

4ZQ64T

T53

4ZQ65

4ZQ64

Pond

Drain

T54

T55

T56

T57

Drain

Bagletts

Mill Beck

Sheet 26 and 27

Sheet 27 and 30

G24

Drain

Crabley Beck

3.8m

Drain

CS

CS

Def

0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon To Be Removed
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line to be Dismantled
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

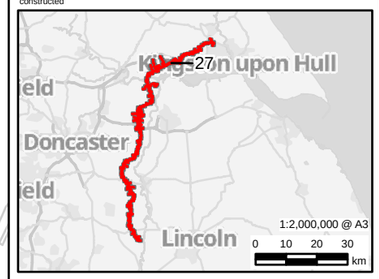
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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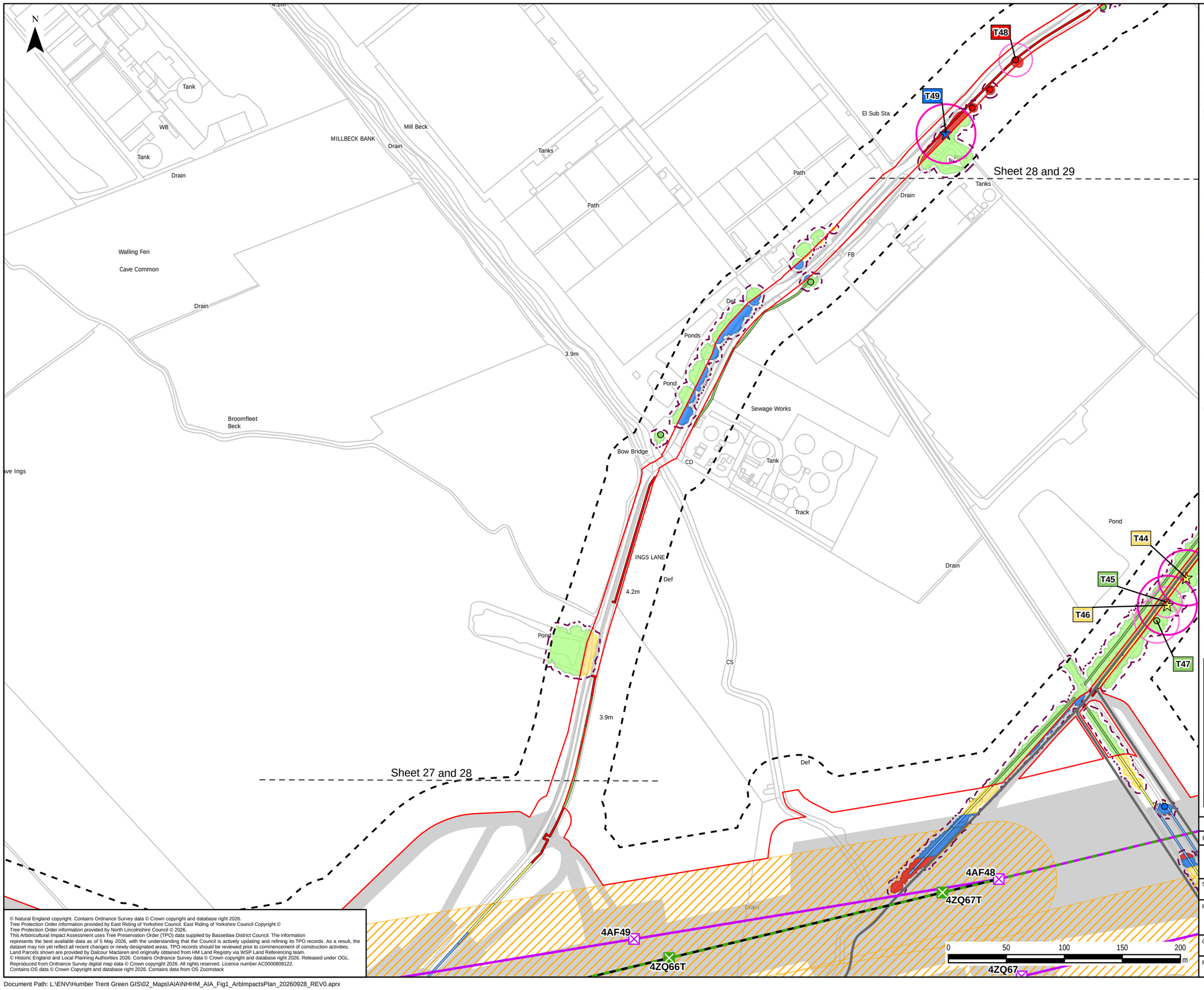
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon To Be Removed
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line to be Reconductored
- Existing Overhead Line to be Dismantled
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Affected Managed
- Potentially Affected

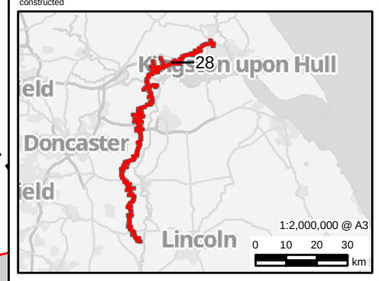
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

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

ELLERKER LANE

Ruffham Field

Drain

Drain

Drain

Drain

Drain

Def

End Fa

Lea Rig

Greenacre

Nursery

Virbna

Hill Dales

Rose Dene

Fairfield

Hill Dales

Willow View

Bransmere

Und

G23

Tanks

Tank

Tank

Cavegates

Cavegates Nurseries

Pond

Track

Track

Ruffhamfield Plantation

T48

T49

Sub Sta

Tanks

Sheet 28 and 29

Ellerker Conservation Area

North Lodge

Hazel House

The Granary

South Lodge

Westholme

Wood

Cottages

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Not Affected

Veteran Tree - Impact

- Affected Managed

Hedgerow - Impact

- Removed
- Potentially Affected
- Not Affected

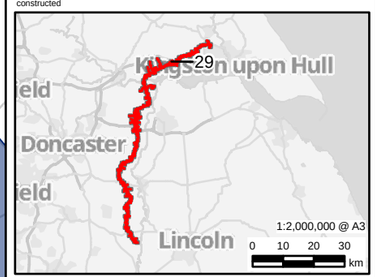
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Conservation Area

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N

Cave Ings

Pond

Drain

T58

4AF52

Drain

Skelfleet
Drain

Cave Common

4ZQ63

4AF53

4ZQ62

Drain

4AF54

ETL

3.6m

Drain

Sheet 30 and 31

4ZQ61

Provence

Gate Bridge

4.1m

Drain

Sheet 27 and 30

3.5m

rd Bdy

0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Dismantled
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

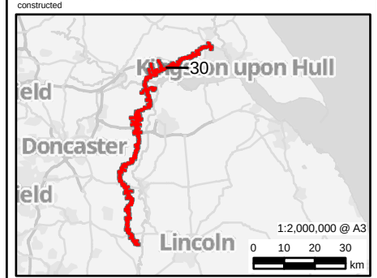
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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N

Def

Path (um)

Drain

Provence

SD

Track

Sheet 30 and 31

Drain

Drain

Drain

4AF55

3.0m

Ward Bdy

4ZQ60

ETL

Def

Drain

3.1m

Providence

Broomfleet Beck

4ZQ59

4AF56

Drain

Path (um)

Drain

3.1m

Drain

4AF57

SP

Level Crossing

MP 14.0

Sheet 31 and 32

4ZQ58

ETL

T64

SL

Railway Crossing

Cave Crossing

Allot Gdns

SP

Path (um)

MP 0.75

SP

Drain

Inacres

Drain

Greenacre

Drain

Cave Crossing

TOWN'S CORNER

Scarfflands Farm

3.3m

ELLERKER ROAD

4.6m

MP 0.5

4ZQ57

G29

Prospect Farm

3.4m

Wolds View Farm

Track

Rose Villa

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Potentially Affected
- Not Affected

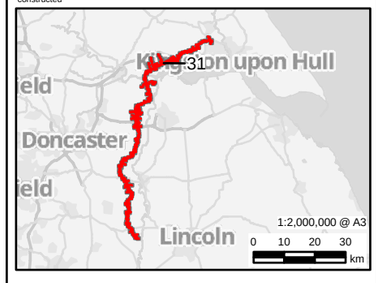
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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N

Sheet 32 and 33

Sheet 31 and 32

Sheet 32 and 37

Track

Northfield House

Drain

CARR LANE

Broomfleet Beck

Carr Bridge

4AF58

Broomfleet Carr

4ZQ57

4AF59

T65

Drain

The Hills

4ZQ56

Drain

Moorways

LITTLE LANE

4AF60

Outlet Bank

Drain

Old Outlet

4ZQ55

ETL

4AF61

Drain

The Mount

4ZQ54

Drain

CARR LANE

Home Garth

Bungalows

Dene

Island View

Glen Holme

Kilchurn House

Aydilys

Tangles

Jubilee House

3.4m

TCB

Church Farm

Casa Di Tre-San

Fairfield

3.5m

Memorial

Broomfleet

Grange

The Cottage

Carr House

Wayside

Glebe Cottage

Church

St Mary's

Cobweb Cottage

Cartref

Curris

House

Peartree

3.9m

Holly Tree Croft

Bridge Farm

Holly Cottage

4.5m

Hall

Ashleigh

Track

Chapel

(site of)

Greylags

Sothfield

Redberry House

Pigeon Cote Farm

Rustic Gables

Ingham Cottage

Tawny Croft

West End Villa

Sunny-Side

Barnside

Barn House

Lock Leven

Jumanji Cottage

MAIN STREET

South Winds

Ryedale

No Six

Victoria Villa

Dales Cottage

Alcudia

Ray House

Track

Drain

Lodge

Sandal

Glen Doon

Old School Ho

2.5m

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

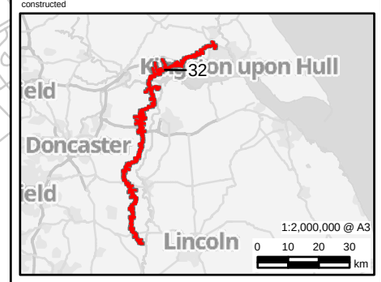
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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Figure Ref:	Scale:	Format:	Sheets:	Rev:
1	1:3,000	A3	32 OF 169	0

Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\AIA\NHHM_AIA_Fig1_ArbImpactsPlan_20260928_REV0.aprx

N

Sheet 33 and 34

Sheet 32 and 33

G27

G28

Grange Farm

Drain

2.0m

1.2m

COMMON ROAD

CR

Ward Bdy

Head Dike

Cave Common

Pond

Broomfleet Station

Shelter

Track

Railway Cottages

Level Crossing

Walling Fen

Def

FF

Signal Box

Sundown

CARR DIKE LANE (TRACK)

MP 0.5

MP 0.65

LC

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Not Affected

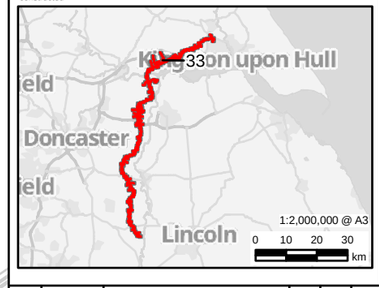
Hedgerow - Impact

- Removed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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N

Sheet 34 and 35

DRAIN BANK (TRACK)

Track

Def

Drain

Clegdike Bridge

Clegdike Drain

CD

White House Farm

Hogdam Pit Drain

2.1m

Drain

Stables

T60

T61

Laxton Lodge

T62

Pond

Def

1.8m

Weeping Willows

Ward Bdy

1.9m

CR

1.7m

1.2m

Drain

n

Drain

Sheet 33 and 34

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

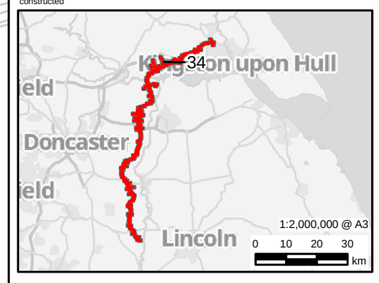
Hedgerow - Impact

- Removed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Potentially Affected
- Not Affected

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N

Sheet 35 and 36

Sheet 34 and 35

Grange
Drain
Pond
ETL
Elm Tree Farm
2.5m
Drain
LAMB LANE
(TRACK)
Drain
Drain
ETL
2.4m
COLLINSON
LANE (TRACK)
Drain
Drain
2.5m
T59
G26
Skelton
Grange
2.4m
Drain

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

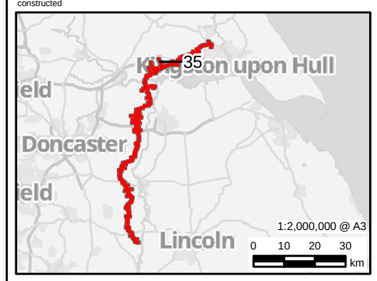
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Potentially Affected
- Not Affected

NOTE:
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0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

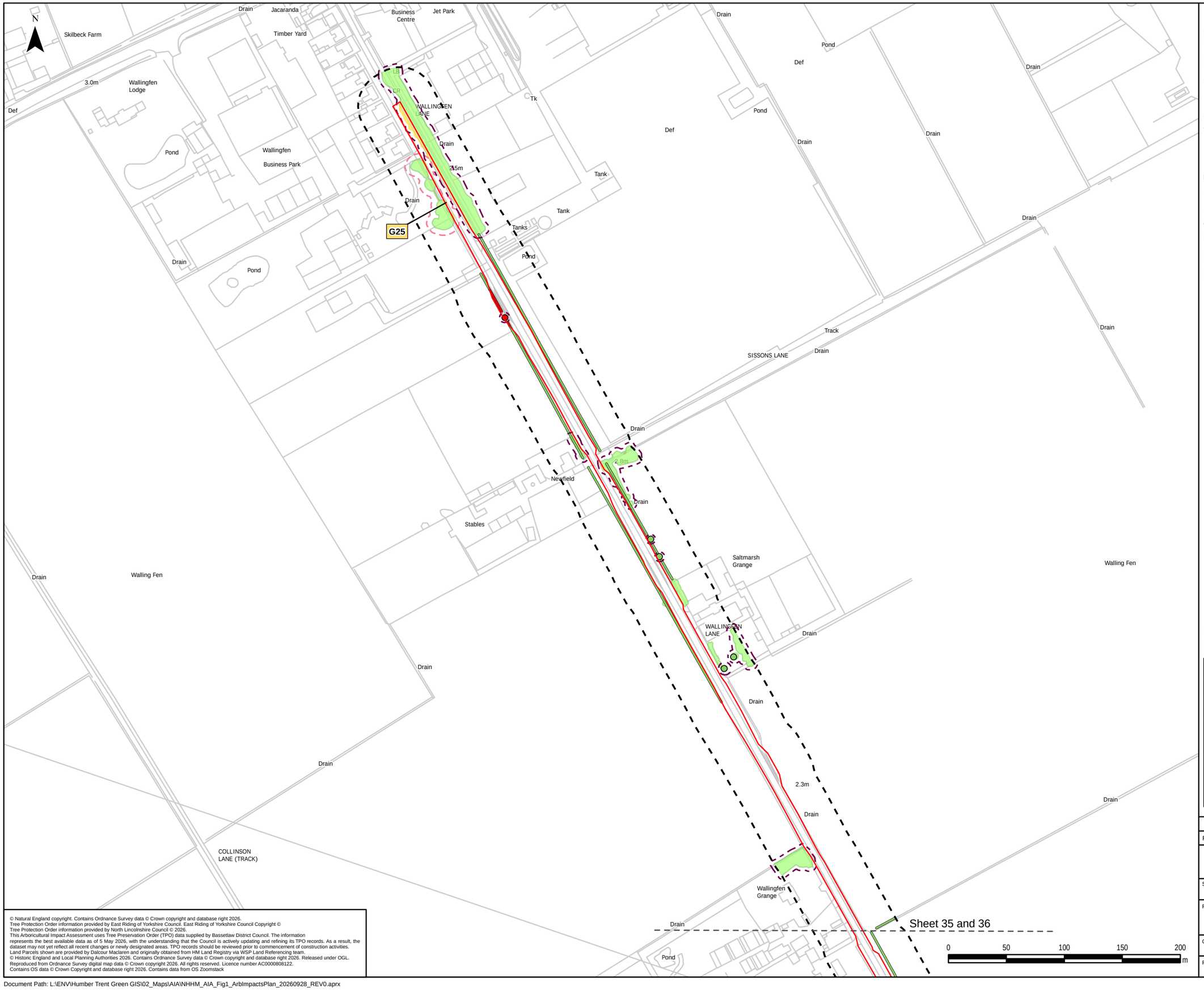
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Not Affected

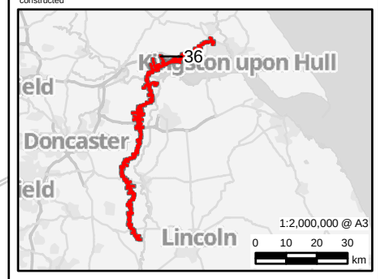
Hedgerow - Impact

- Removed
- Not Affected

Canopy Area - Impact

- Removed
- Potentially Affected
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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N

Sheet 32 and 37

Sheet 37 and 38

Ponds

Drain

CC

2.8m

Path (um)

Bell's Cottages

Pond

LANDING LANE

Broomfleet Landing

Def

ETL

Pighills

Market Weighton Canal

G30

G31

4AF61

4AF62

4AF63

4AF64

4ZQ51

4ZQ52

4ZQ53

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected

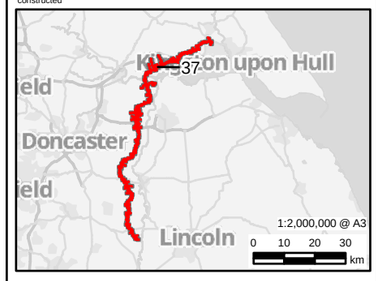
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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N

Sheet 38 and 40

Sheet 37 and 38

Drain

Pond

Ponds

1.9m

Track

4AF65

4ZQ50

4AF66

4ZQ49

4AF67

4ZQ48

ETL

Drain

Sheet 38 and 39

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Potentially Affected
- Not Affected

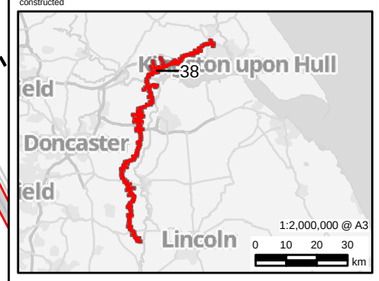
Hedgerow - Impact

- Removed
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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N

4AF66

4ZQ49

27m

ETL

Drain

Sheet 38 and 39

Drain

Drain

1.8m

Faxfleet
Main Drain

Sheet 39 and 45

FAXFLEET LANE

Drain

1.5m

Drain

Drain

Drain

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed

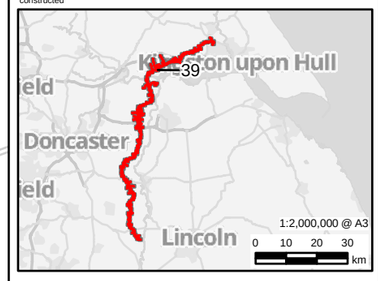
Hedgerow - Impact

- Removed
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Not Affected

NOTE:
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N

Sheet 40 and 42

2.0m

FB

Stone

2.7m

Drain

TONGUE LANE

3.2m

Sheet 40 and 41

G32

Warping Drain

G33

Drain

North Hall

Ponds

Ponds

Sheet 38 and 40

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Other Temporary Construction and Operational Works (Linear)
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed

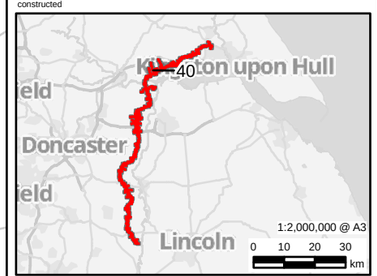
Hedgerow - Impact

- Removed
- Not Affected

Canopy Area - Impact

- Removed
- Not Affected

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N

Sheet 40 and 41

Drain
Track
Oxmardike Marr
Pond
Darkworth Cottages
Pond
3.0m
Landing Stage
Track
Landing Stage
Track
Pond
T66
Tank
Works
Pond
Drain
Path (um
Factory
Pond
Ponds
Tank
Drain
G32
Pond
L Twr
Drain
Pond
Ponds
0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

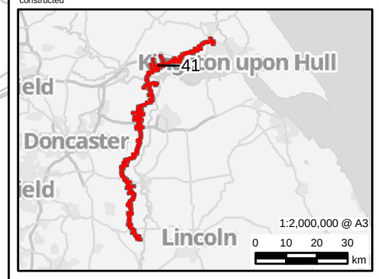
Tree - Impact

- Not Affected

Canopy Area - Impact

- Not Affected

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N

Sheet 42 and 43

Sheet 40 and 42

1.7m

1.9m

3.0m

Field View House

Drain

Pond

Oxmardyke Equestrian Centre

Track

MP 16.0

Tank

FB

Oxmardyke Grange

OXMARDYKE LANE

Eastwick Farm

Newstead Farm

Solar Panels

TONGUE LANE

T70

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Not Affected

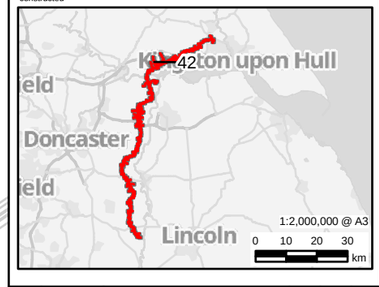
Hedgerow - Impact

- Removed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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N

Sheet 43 and 44

Sheet 42 and 43

Track

Drain

Newton Farm

Newton

T67

T68

T69

1.9m

2.2m

FF

SD

Def

MP 0.5

TONGUE LANE

Oxmardyke Crossing

Signal Post

Und

MARR LANE

Signal Box

CR

Track

1.2m

3.8m

MP 0.25

SP

Pond

Fawn Cottage

1.7m

Field View House

Oxmardyke Equestrian Centre

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Not Affected

Veteran Tree - Impact

- Affected Managed

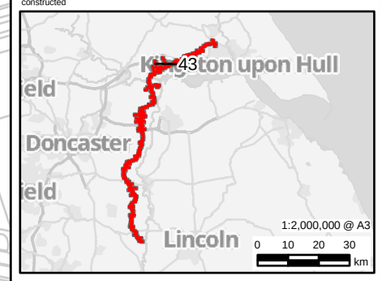
Hedgerow - Impact

- Removed
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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N

TPO3799

MAIN ROAD

SCALBY

SCALBY LANE

Sheet 43 and 44

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

Hedgerow - Impact

- Not Affected

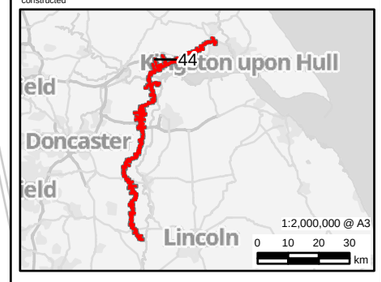
Canopy Area - Impact

- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Tree Preservation Order

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

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N

4AF67
4AF68
4AF69
4ZQ46
4ZQ47
4ZQ48

ETL
Train
Track
Drain
Far Drain or Bishopsoil Drain
Sheet 45 and 46
Sheet 39 and 45
Faxfleet Main Drain
Scalby Warping Drain

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

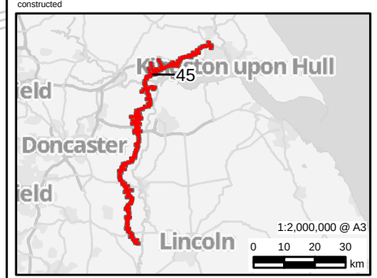
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Potentially Affected
- Not Affected

NOTE:
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N

Sheet 46 and 47

Sheet 45 and 46

Sheet 46 and 50

G37

T75

T76

T77

4AF70

4AF71

4AF72

4ZQ46

4ZQ45

4ZQ44

4ZQ43

Drain

Track

Pond

North Farm

ETL

2.0m

Wayside Cottage

Staddlethorpe

The Tow Inn

The Granary

The Pottery Barn

The Gallery

Farm South

Garden Cottage

Cornmill Barn

2.1m

Lay-by

Greenacres

2.2m

CROSS GATE

STOCK LANE (TRACK)

SPARROWCROFT LANE

Blacktoft Warping Drain

Anserdam Drain

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Potentially Affected

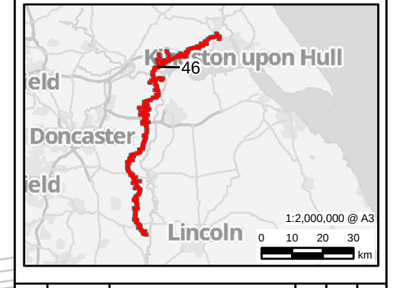
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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N

Sheet 47 and 48

Sheet 46 and 47

Pond
Drain
Pond
2.4m
Drain
Drain
Far Drain or Bishopsoil Drain
Drain
Sewage Works
2.1m
Track
Drain
Track
Drain
2.4m
G35
G36
T74
2.0m
PHID48455936_042591961
4AF69
Drain
Drain
Saddlethorpe House
Drain
G37
Drain
0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

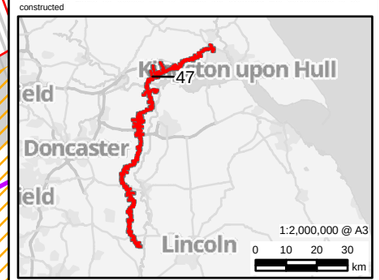
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Traditional Orchard

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Scheme: NORTH HUMBER TO HIGH MARNHAM

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

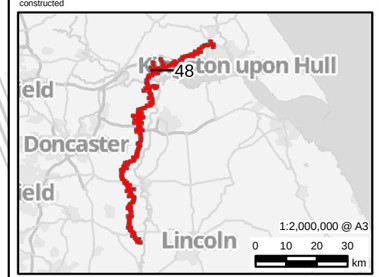
Hedgerow - Impact

- Removed
- Not Affected

Canopy Area - Impact

- Potentially Affected
- Not Affected

NOTE:
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N

2.4m

CD

Def

Drain

Drain

Drain

Path (um)

Anserdam
Drain

Drain

Drain

Drain

Und

Council
Houses

CD

Drain

Woodfield
House

Farm

Drain

2.5m

T71

3.1m

T72

Drain

Drain

2.7m

G34

Thornton
House Gate

T73

2.3m

Sheet 48 and 49

Track

Thornton
Cottage

Thornton
House

3.1m

Drain

2.9m

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

Hedgerow - Impact

- Removed
- Not Affected

Canopy Area - Impact

- Potentially Affected
- Not Affected

NOTE:
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N

Bellasize Drain

Blacktoft Warping Drain

Drain

Track

G38

Drain

Drain

Drain

4AF72

4ZQ43

4AF73

ETL

Drain

Sheet 46 and 50

4ZQ42

4AF74

4ZQ41

Track

T79

T78

ETL Sheet 50 and 51

Track

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

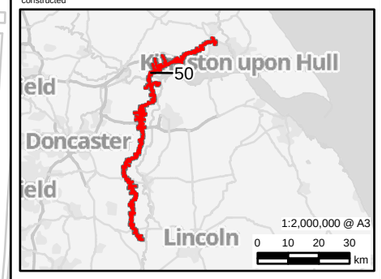
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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N

Track

Drain

T79

T78

T80

T81

T83

4AF75

4ZQ40

ETL

Sheet 50 and 51

Drain

Bellasize Drain

T84

4AF76

4ZQ39

Route Section A

Route Section B

3.1m

BLACKTOFT LANE

East Lodge

G39

ETL

Drain

4ZQ38

G40

4AF77

T87

T85

T86

Path (um)

Mean High Water

Landing Stage

Navigation Light

Posts

(Flashing White)

Sloping masonry

Mud

Sheet 51 and 52

Bellasize Clough

River Ouse

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Route Section
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Potentially Affected

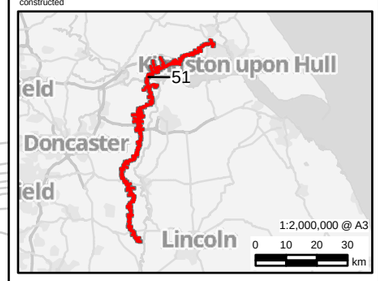
Hedgerow - Impact

- Removed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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N

T88

Sheet 51 and 52

Sheet 52 and 53

3.6m

Yokefleet Drain

HUTCH LANE

Drain

Yokefleet

Mill Farm

Clough

MLW

Sluice

Stone

Path (um)

Hall Staith

Sloping masonry

Mean High Water

Posts

Mud

Ward 5dv

Ditch

SM

Navigation Light

(Fixed White)

(Flashing White)

(Flashing Red)

5.9m

River Ouse

4ZQ37

4ZQ36

4AF78

ETL

Pond

COMMONPIECE LANE (TRACK)

4.5m

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected

Hedgerow - Impact

- Potentially Affected

Canopy Area - Impact

- Potentially Affected

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0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

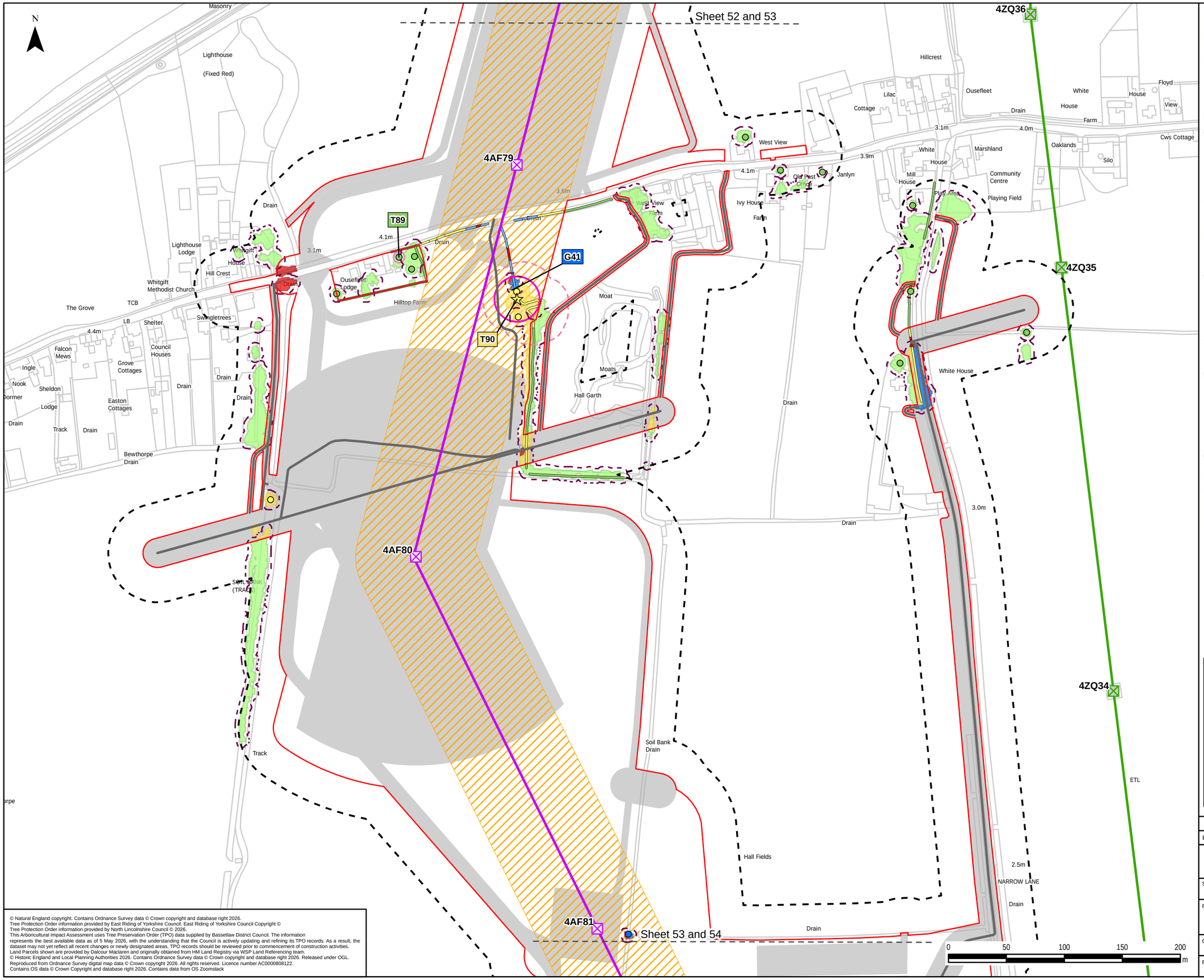
Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Potentially Affected

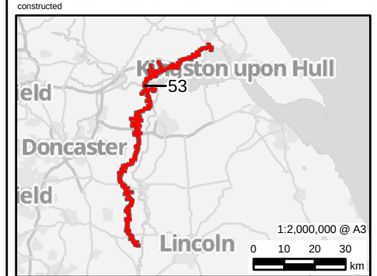
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

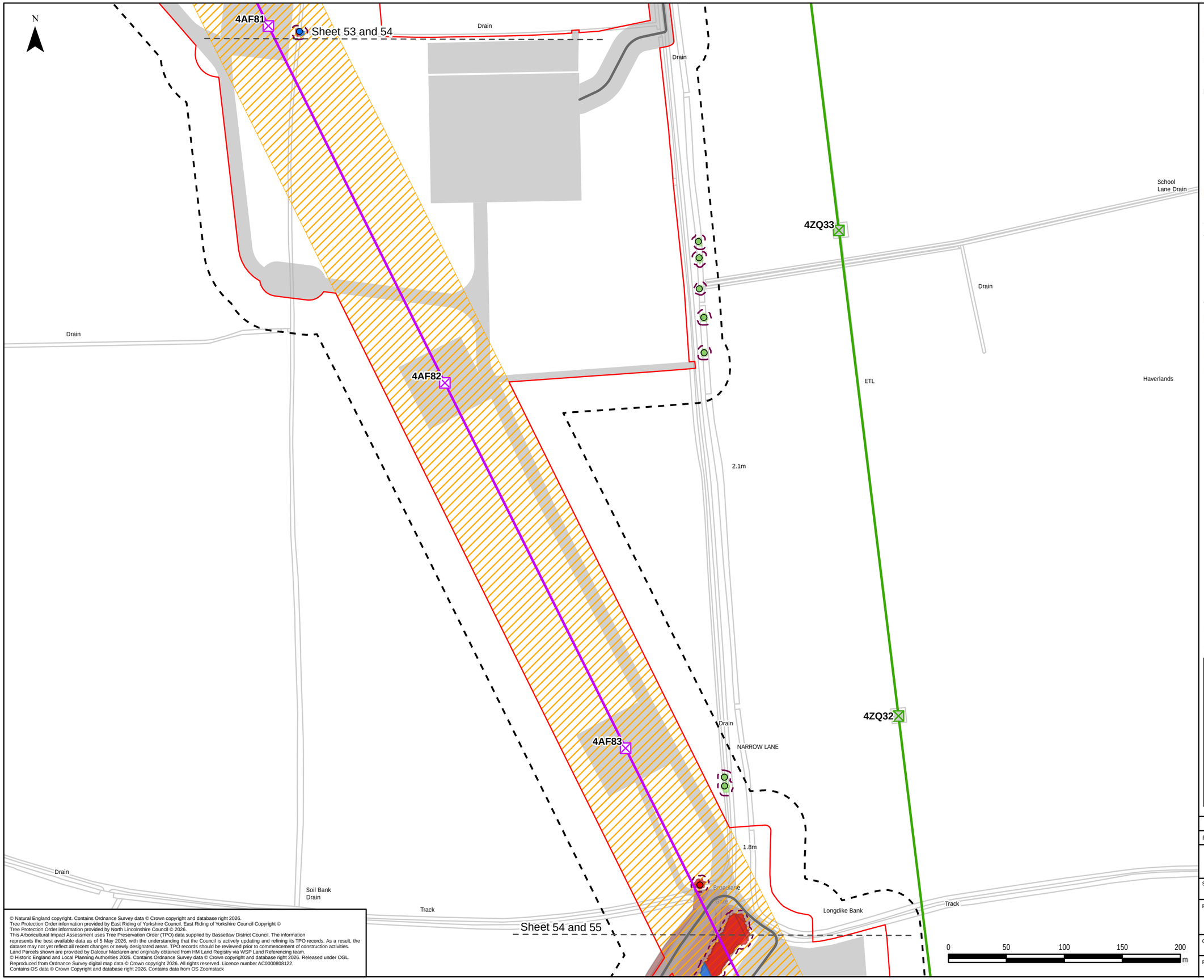
Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

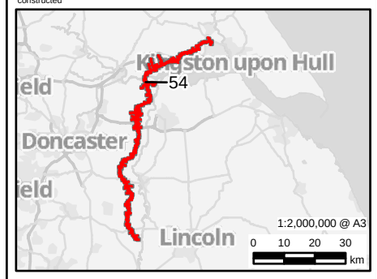
Tree - Impact

- Removed
- Affected Managed
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Black Plantation

Sheet 54 and 55

Sheet 55 and 56

Track

Drain

Longdike Bank

Pentlands Dike

4ZQ31

4AF84

4ZQ30

4AF85

ETL

1.5m

Broadlane Bridge

Broad Lane Drain

Pentlands

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

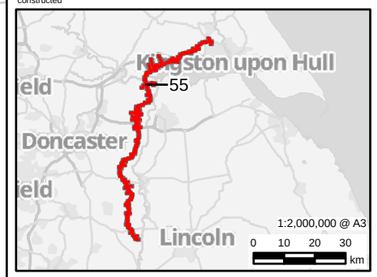
Tree - Impact

- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Quart Lane Drain

Moxon Close Drain

Broadlane Bridge

1.5m

Drain

Broad Lane Drain

2.0m

1.5m

1.4m

1.9m

Drain

Drain

Nursery Plumm

Pentlands Dike

Stripe Close Plantation

Drain

TPO1294

1.8m

Broad Lane Drain

Track

Sheet 55 and 56

Sheet 56 and 57

Pentlands Dike

Drain

Drain

West Field

0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Other Temporary Construction and Operational Works (Linear)
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

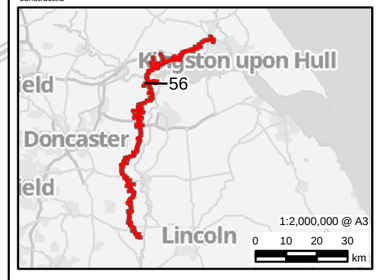
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Tree Preservation Order

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

Sheet 56 and 57

Moxon Close Drain

Drain

Pond

Ponds

Track

1.9m

TPO1293

TPO1294

Track

1.5m

Track

Drain

Drain

T92

Ousk Hall Lake

1.2m

TPO1295

TPO1296

Drain

T93

Drain

G42

1.8m

A161

1.5m

Cross (site of)

Bracken Hill

Bracken Hill

Drain

Drain

Drain

2.0m

T91

BROAD LANE (TRACK)

Drain

0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Other Temporary Construction and Operational Works (Linear)
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Potentially Affected
- Not Affected

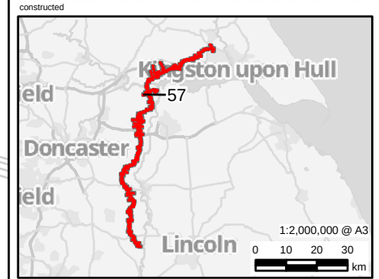
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Tree Preservation Order

NOTE:
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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

Drain
Drain
Drain
Drain
Longdike Bank
Track
2.1m
Track
Ramsden's Charity
Drain
Pentlands Dike
Pentlands Dike
Pentlands
4ZQ30
Adlingfleet Drain
Drain
Mains
Mains Bridge
Track
Drain
Sheet 58 and 62

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Temporary Construction and Operational Works (Area)

Vegetation Impact

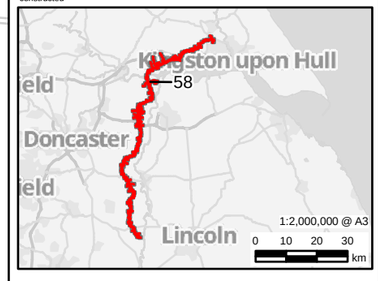
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Removed

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title:

FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

Drain

2.9m

Adlingfleet
Ings

2.7m

Adlingfleet
Drain

Hoggard
Lane

Bridge

2.4m

Drain

Drain

Drain

2.3m

Fourstangs
Drain

Pond

2.4m

Drain

Drain

1.9m

Drain

HOGGARD LANE

Drain

FOURSTANGS
LANE (TRACK)

Drain

Drain

2.4m

Sheet 59 and 60

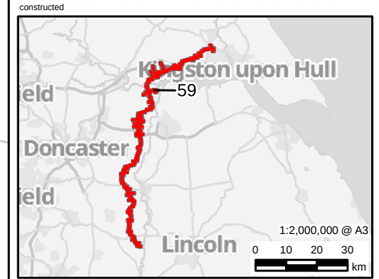
Sheet 59 and 61

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)

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N

Sheet 59 and 60

Sheet 60 and 61

East Riding of Yorkshire Council

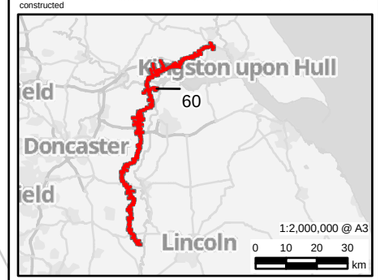
North Lincolnshire Council

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Local Authority Boundary
- No Access / Limited Access for Arboriculture

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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Sheet 59 and 60

Sheet 59 and 61

Sheet 60 and 61

East Riding of Yorkshire Council

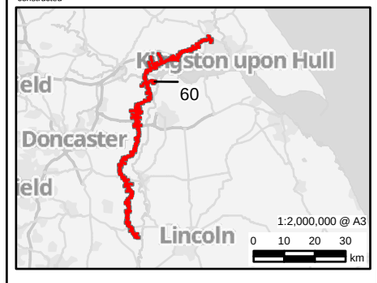
North Lincolnshire Council

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Local Authority Boundary

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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

Sheet 58 and 62

Drain

Track

Drain

Mains

Pumping Station

Drain

4ZQ29

4AF86

Drain

Drain

WESTFIELD LANE (TRACK)

Track

Cowlane Drain

Drain

ETL

4ZQ28

Drain

4AF87

Broadmarsh Well

Adlingfleet Drain

Gill's Closes

Gill's Close Bridge

Drain

Sheet 62 and 63

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Local Authority Boundary
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Not Affected

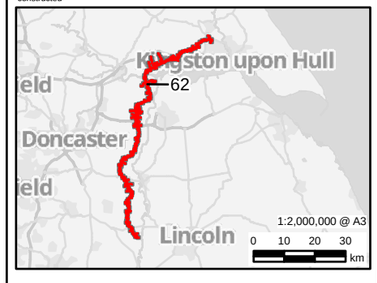
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Not Affected

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

Figure Title:

FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

Sheet 62 and 63

Sheet 63 and 64

COW LANE (TRACK)

Drain

Drain

Drain

Drain

Drain

Fockerby Drain

Fockerby Drain

Def

CD

BB

East Riding of Yorkshire Council

North Lincolnshire Council

Und

S Tk

S Tk

Track

Track

Drain

Adlingfleet Drain

ETL

4AF88

4ZQ27

4AF89

4ZQ26

G43

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Local Authority Boundary
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Potentially Affected
- Not Affected

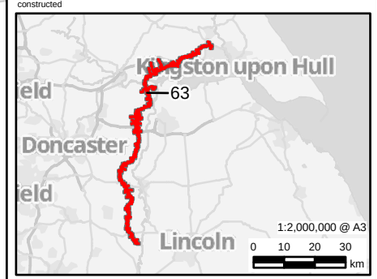
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

Sheet 63 and 64

Sheet 64 and 65

PASTURE LANE

ETL

Fockerby Drain South

Drain

Fockerby Pasture

4AF90

4ZQ25

4ZQ24

4AF91

T94

Track

Pond

Ponds

Station House

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

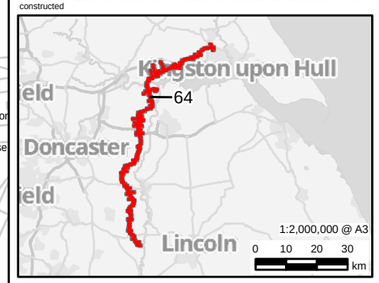
Tree - Impact

- Removed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Potentially Affected
- Not Affected

NOTE:
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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

Sheet 64 and 65

Sheet 65 and 66

4ZQ23

4AF92

4ZQ22

4AF93

4AF94

4ZQ21

T95

Fockerby Boundary Drain

CD

Drain

Drain

East Field

Drain

Track

Track

Wind Turbine

ETL

ETL

COCR

(course of)

(course of)

Old River Don

Old River Don

2.7m

2.9m

2.7m

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

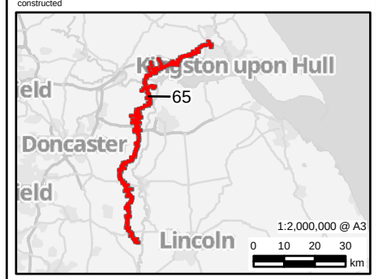
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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nationalgrid

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N

Pond

Sundial

Haldenby Hall

Sheet 65 and 66

T95

COCR

(course

Old River Don

Track

Drain

Und

2.5m

Sheet 66 and 67

2.3m

Drain

Drain

G44

Rosegarth

GARTHORPE ROAD

1.9m

Drain

Drain

S Tk

1.6m

Track

Drain

Drain

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

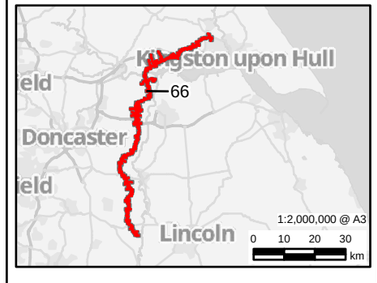
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Potentially Affected
- Not Affected

NOTE:
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Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Sheet 66 and 67

Sheet 67 and 68

4AF95

4AF96

4ZQ20

4ZQ19

Carr Lodge

CARR LANE

Water Tower

Pumping Station

Pond

ETL

Drain

2.4m

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected

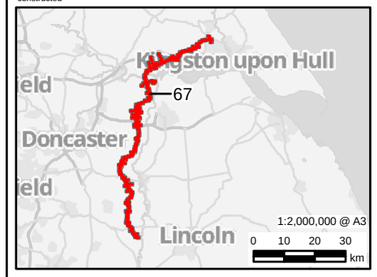
Hedgerow - Impact

- Potentially Affected
- Not Affected

Canopy Area - Impact

- Potentially Affected
- Not Affected

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Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Sheet 67 and 68

4AF97

4ZQ18

4AF98

4ZQ17

4AF99

4ZQ16

Drain

Drain

Drain

Drain

Drain

FB

Tanks

Sewage

Works

Tanks

CARR LANE

CR

MEREDYKE ROAD

Def

3.8m

CR

3.7m

Def

3.6m

Sheet 68 and 69

0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

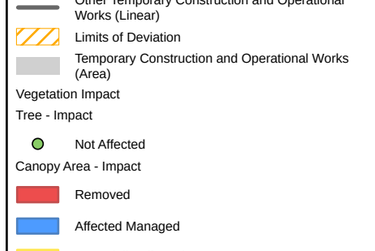
Tree - Impact

- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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nationalgrid

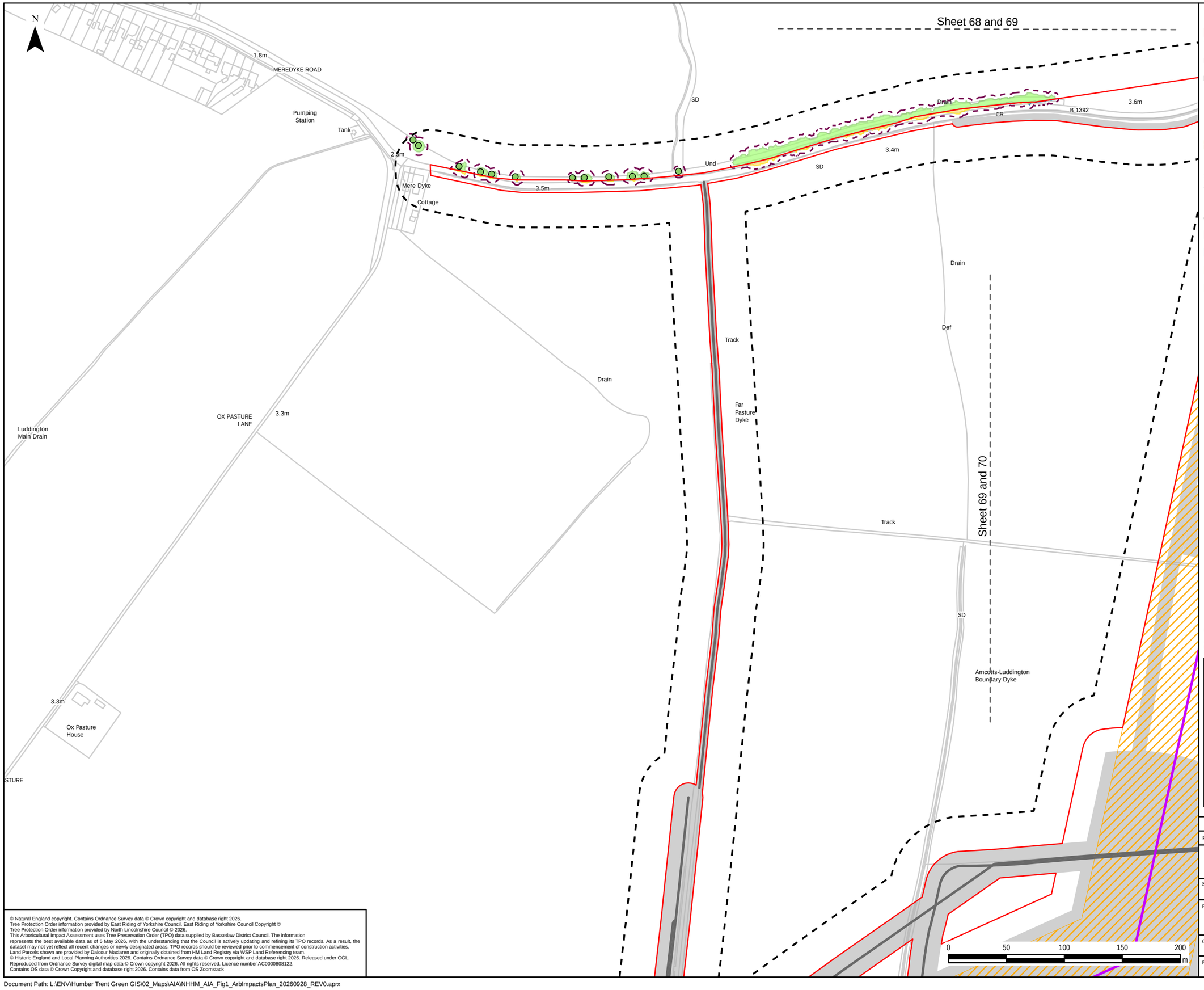
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

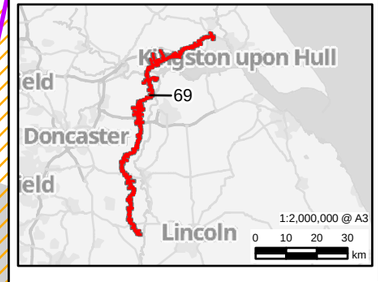
Tree - Impact

- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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

Drain
CR
B 1392
3.6m
3.4m
SD
Def
4AF99
4ZQ16
ETL
Drain
Drain
Def
Track
Sheet 69 and 70
4AF100
Track
4ZQ15
T96
Pond
T97
SD
Amcotts-Luddington
Boundary Dyke
Track
Sheet 70 and 71
4AF101
4ZQ14
Cotley
Hall Dyke

0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

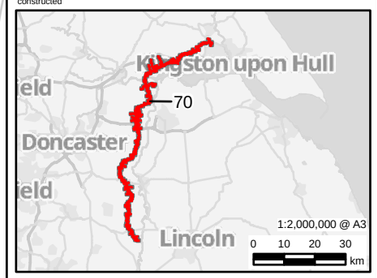
Veteran Tree - Impact

- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

4AF101

4AF102

4AF103

4ZQ14

4ZQ13

4ZQ12

Sheet 70 and 71

Sheet 71 and 72

Drain

Drain

Drain

Track

Far Pasture Dyke

Amcotts-Luddington Boundary Dyke

SD

ETL

Def

SD

Pasture Farm Dyke

Paupers' Drain

Def

0 50 100 150 200 m

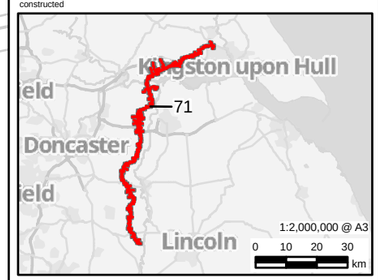
Legend

- Order Limits
- Arboriculture Study Area (30 m)

Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

NOTE:
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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title:

FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

EASTOFT ROAD

(course of)

Old River Don

3.4m

The Ruddings

G45

3.0m

Drain

Luddington
Main Drain

3.3m

Sheet 71 and 72

4AF104

Drain

3.1m

Track

Drain

4AF105

T98

Sheet 72 and 73

4AF106

2.8m

Drain

Paupers'

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

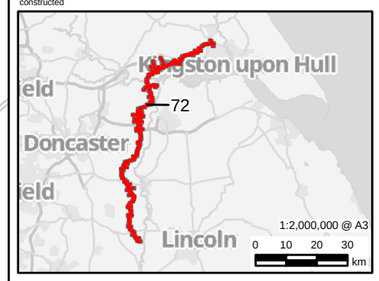
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Potentially Affected
- Not Affected

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Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Luddington Carr Ings Drain

CD

Drain

Track

Luddington Main Drain

Drain

2.8m

2.4m

1.3m

3.1m

3.9m

3.2m

Sheet 72 and 73

4AF107

4AF108

4AF109

Sheet 73 and 74

Track

Pademoor Drain

Eastoft Main Parish Drain

Wind Turbine

Paupers' Drain

CD

Drain

Def

Drain

Track

Drain

Old Sewer

Drain

Wind Turbine

Track

Luddington Moors Drain

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

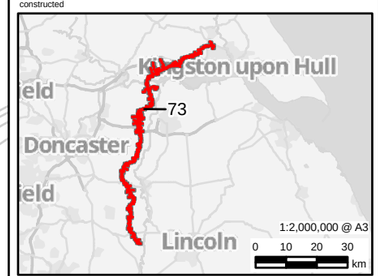
Tree - Impact

- Not Affected

Canopy Area - Impact

- Potentially Affected
- Not Affected

NOTE:
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Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

WASHINGALL LANE

Constable Drain

Pademoor

2.8m

Drain

Pademoor Cottage

Middle Cottage

House

Pademoor

Cottage

Drain

1.5m

Paupers' Drain

Drain

Sheet 74 and 75

Sheet 73 and 74

1.5m

1.8m

CD

1.2m

4AF110

4AF111

4AF112

Drain

Leggotts Drain

Eastoft Moors Road Drain

Eastoft Boundary Dyke

Everatts Drain

Everatts Drain

Drain

CD

Old Sewer

0.8m

Pond

0 50 100 150 200 m

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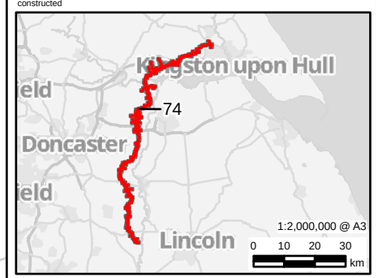
Legend

- Order Limits
- Arboriculture Study Area (30 m)

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

NOTE:
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Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Drain
SD
2.4m
Und
Paupers'
Drain
Def
Def
Drain
SD
3.0m
3.0m
Tanks
Track
Tank
House
Pader
Cottage
Drain
Sheet 74 and 75
Stephensons
Drain
Drain
Grange Dyke
Drain
Drain
4AF113
Drain
Everatts
Drain
Drain
4AF114
Drain
Route Section B
Route Section C
Sheet 75 and 76

0 50 100 150 200 m

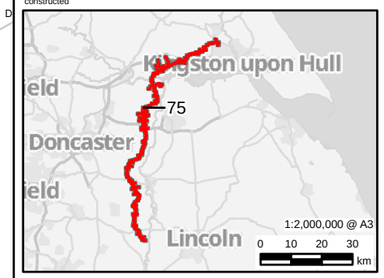
Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Route Section

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

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N

Sheet 75 and 76

Grange Dyke

Crowle and Eastoft Boundary Drain

Def

Drain

Drain

Drain

Drain

Drain

4AF115

Route Section B
Route Section C

Track

Track

4AF116

Drain

Drain

Drain

Drain

Pond

Drain

3.2m

Drain

3.2m

Drain

Drain

4AF117

Drain

Sheet 76 and 77

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Route Section
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

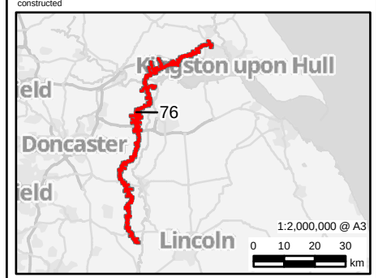
Hedgerow - Impact

- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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Sheet 76 and 77

Sheet 77 and 78

4AF117

4AF118

4AF119

T99

Crowle Grange

Bewcarrs Drain

Ealand Carr Drain

Ealand Farm

Moors Road Drain

North and South Cross

Chapman D

Watsons Drain

Poultry Farm

Pearts Drain

Track

Gas

Distribution Sta

Pond

3.3m

2.2m

1.6m

1.9m

1.8m

1.4m

1.2m

Drain

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

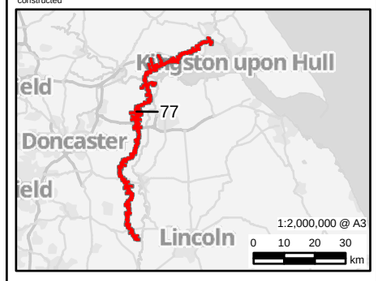
Tree - Impact

- Removed
- Not Affected

Canopy Area - Impact

- Removed
- Potentially Affected
- Not Affected

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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
1	1:3,000	A3	77 OF 169	0

Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\AIA\NHHM_AIA_Fig1_ArbImpactsPlan_20260928_REV0.aprx

N

Sheet 77 and 78

Sheet 78 and 79

ZDA119A
ZDA119
ZDA119B
ZDA119C
4AF120
ZDA120A
ZDA120B
ZDA120C
ZDA120
ZDA121
4AF121
4AF122

Drain
Track
Pearts Drain
Browns Drain
Trouts Road Drain
Baland Carr Drain
SOUTH CROSS MOORS ROAD
Tanks
Ealand Farm
Pond
North and South Cross Moors Road Drain
1.6m
1.8m
FTL

0 50 100 150 200 m

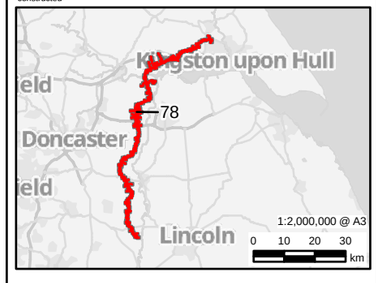
Legend

- Order Limits
- Arboriculture Study Area (30 m)

Project Design Details

- Existing Lattice Pylon To Be Modified
- Existing Lattice Pylon To Be Removed
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line to be Reconductored
- Existing Overhead Line to be Dismantled
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

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

ZDA116
ZDA117
ZDA118
ZDA119A
ZDA119

Sheet 79 and 80
Sheet 78 and 79

Track
Drain
Ealand Drain
Ealand Carr Drain
Browns Drain
Dismantled Railway
ETL
Levels Farm
Ragosa House
Bronwyn
Rose
Hilltean
The Cottage
Pindara
Sierra
Ta Megara
Crane House
Spring Cottage
Cherry Tree
Cottage
Orchard House Farm
Wyngarth
Cranhurst
Rooksdown
Hillcrest House
Tuckwood
MAIN STREET
Elmwood
The Conifers
Ivy House Farm
Ppg Sta
Rowan Lodge

1.9m
2.4m
2.8m
3.4m
3.3m
5.9m

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Existing Lattice Pylon To Be Modified
- Existing Lattice Pylon To Be Removed
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconductored
- Existing Overhead Line to be Dismantled
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Potentially Affected
- Not Affected

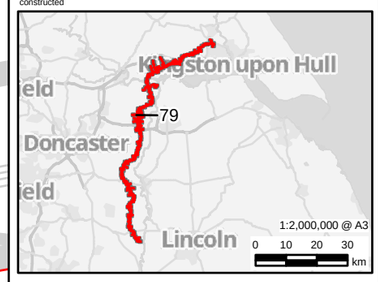
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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N

PARK AVENUE

El Sub Sta

ST JAMES CLOSE

Path

WHARF ROAD

Path

ASHFIELD COURT

WESTBOURNE DRIVE

El Sub Sta

T100

ZDA113

ZDA114

ZDA115

ZDA116

G46

T101

T102

TPO/1970/0001

A161

G47

PARK VIEW

G48

T104

T103

WHARF ROAD

Pond

Hall

Drain

Pond

Drain

New Tetley Cottage

Tetley Hall

Ivy House

Track

FB

Drain

Drain

Drain

Drain

Track

Drain

Drain

Drain

Beaucarrs Farm

Corner House Farm

Sheet 79 and 80

T105

3.2m

Field House Farm

Bronwyn

Rose

Pindara

Ta Megara

Spring Cottage

Wyngarth

Rooksdown

Tuckwood

Poplar House

Shikar Lodge

The Conifers

The Meadows

Ppg Sta

White

The Beeches

Drain

Manvers

Drain

ETL

MAIN

TPO/1970/0018

TPO/2006/0097

TPO/2006/0098

1:600 @ A3

0 5 10 15 m

TPO/1970/0017

TPO/1970/0016

TPO/1970/0015

TPO/1970/0014

TPO/1970/0013

TPO/1970/0012

1:900 @ A3

0 10 20 30 m

TPO/1970/0011

TPO/1970/0010

TPO/1970/0007

TPO/1970/0009

TPO/1970/0005

TPO/1970/0004

TPO/1970/0044

TPO/1970/0023

TPO/1970/0008

TPO/2006/0097

TPO/2006/0098

1:1,500 @ A3

0 20 40 60 m

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconductored
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Not Affected

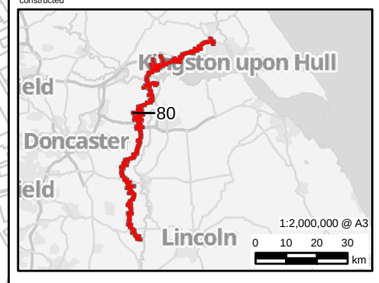
Canopy Area - Impact

- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Tree Preservation Order

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

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N

Drain

Drain

Crowle and
Eastoft
Boundary Drain

CD

Godsman Drain

Wind Turbine

Wind Turbine

1.2m

1.2m

CD

Route Section B
Route Section C

1.0m

Eastoft Moors
Road Drain

Eastoft
Boundary
Dyke

Wind Turbine

Drain

Drain

0.7m

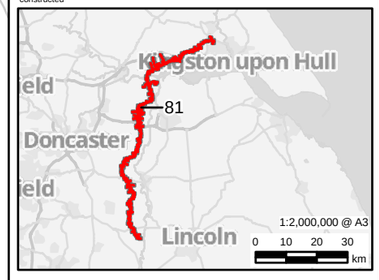
Sheet 81 and 82

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Route Section
- Temporary Construction and Operational Works (Area)

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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N

Sheet 81 and 82

Sheet 82 and 83

Def
1.9m
Drain
Eastoft Moors Drain
Wind Turbine
1.2m
Track
Def
Drain
Drain
Drain
Tanks
Sluice
Wind Turbine
apman Drain
South Moor Drain
1.2m
Drain
Drain
Met
Sta
Drain
Drain
1.2m
Drain
Crowle Moors and Pilfrey Drain
Drain
Ponds
Keadby Boundary Drain
CD
Drain

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Other Temporary Construction and Operational Works (Linear)
- Temporary Construction and Operational Works (Area)

Vegetation Impact

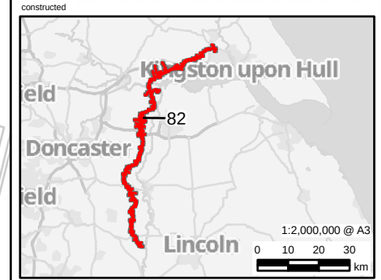
Tree - Impact

- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Sheet 82 and 83

Wind Turbine

Drain

Track

Drain

Drain

Drain

Drain

Drain

Ponds

Heap (dis)

Def

Keadby Boundary Drain

ETL

ZDA122

ZDA123

ZDA124

South Moor Drain

Sheet 83 and 84

Track

Track

CD

Keadby Boundary Drain

Drain

G49

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

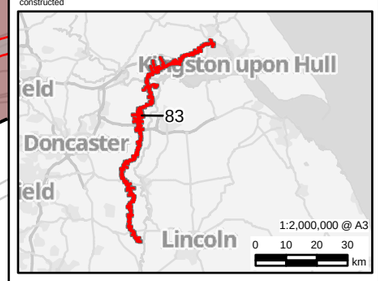
- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconductored
- Other Temporary Construction and Operational Works (Linear)
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Canopy Area - Impact

- Not Affected

NOTE:
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N

Drain
Def
Keadby Boundary Drain
ZDA123
ZDA124
ZDA125
ETL
Keadby Common
FB
FB
Drain
Sheet 83 and 84
Track
Track
CD
Keadby Boundary Drain
Drain
G49
2.3m
North Soak Drain
2.1m
MP 0.5
SP
Stainforth & Keadby Canal
2.3m
SP
South Soak Drain
North Pilfrey Farm
MP 0.25
2.3m
SP
SP
Track
Wind Turbine
Drain
Sheet 84 and 85
Def
Drain
Drain
Drain
Drain

0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconductored
- Other Temporary Construction and Operational Works (Linear)
- Temporary Construction and Operational Works (Area)

Vegetation Impact

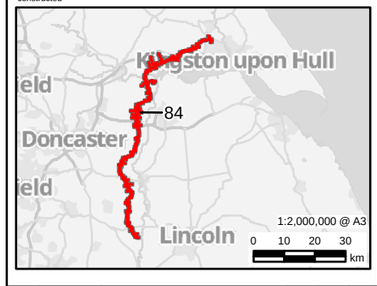
Tree - Impact

- Removed
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Not Affected

NOTE:
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Drain
1.6m
Pond
North and South
Cross Moors
Road Drain
Drain
Drain
Drain
North
Pilfrey
Farm
SP
MP 17.0
2.4m
SL
Sheet 84 and 85
North Soak
Drain
Ealand
Warpings
2.1m
Stainforth &
Keadby Canal
The Barn
1.4m
MP 0.75
Drain
Sluice
South Soak
Drain
2.6m
Drain
Drain
MP 0.5
G50
rth Soak
ain
Sheet 85 and 86
Drain
Drain
Drain
Drain
0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Other Temporary Construction and Operational Works (Linear)
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Potentially Affected
- Not Affected

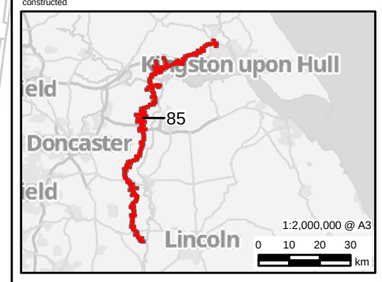
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
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Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\AIA\NHHM_AIA_Fig1_ArbImpactsPlan_20260928_REV0.aprx

N

T106

G51

4AF123

4AF124

T107

G50

Drain

Furniss Drain

North Soak Drain

South Soak Drain

Stainforth & Keadby Canal

Bonny Hale

Pond

2.9m

2.7m

2.6m

MP 16.0

MP 0.25

MP 0.5

Sheet 86 and 87

Sheet 85 and 86

Track

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

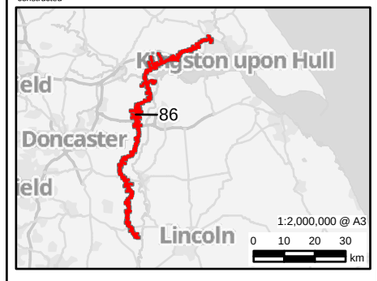
Tree - Impact

- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

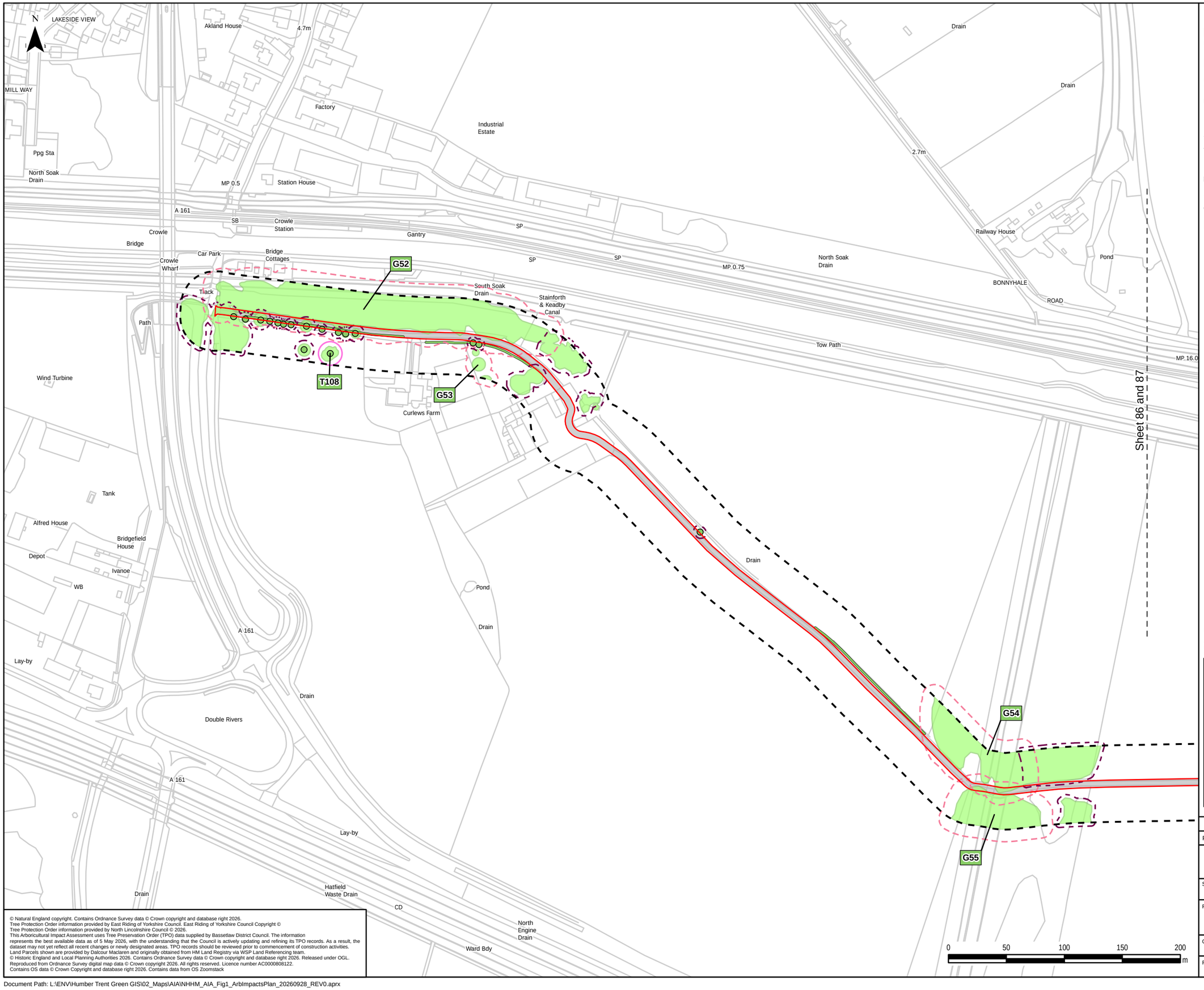
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

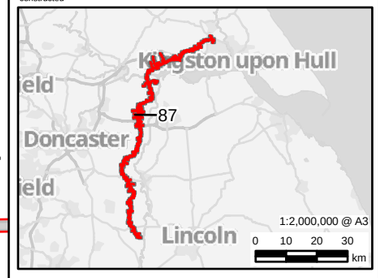
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Not Affected

NOTE:
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

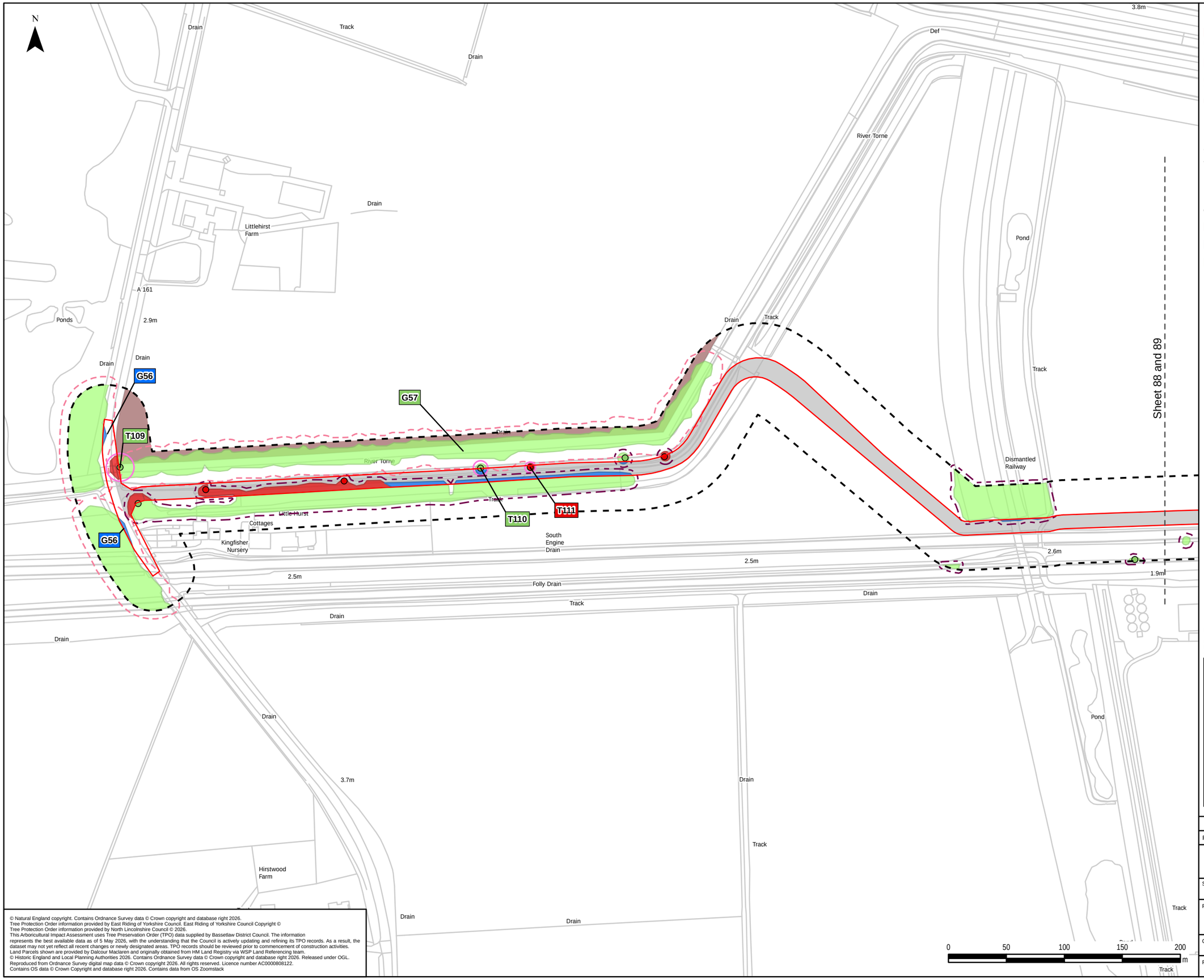
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture
- Temporary Construction and Operational Works (Area)

Vegetation Impact

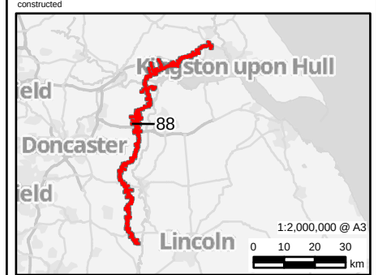
Tree - Impact

- Removed
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Not Affected

NOTE:
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\AIA\NHHM_AIA_Fig1_ArbImpactsPlan_20260928_REV0.aprx

N

4AF125

4AF126

3.8m

2.8m

3.2m

Hatfield Waste Drain

North Engine Drain

Def

River Torne

Ward Bdy

2.8m

Lay-by

2.8m

A 18

Sheet 89 and 90

Sheet 88 and 89

South Engine Drain

2.8m

Folly Drain

Track

Drain

Drain

1.9m

North Moor Farm

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

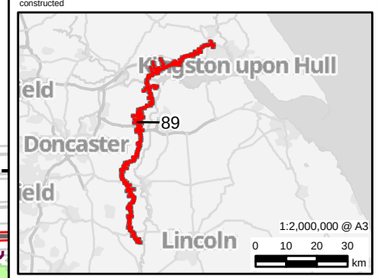
Hedgerow - Impact

- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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nationalgrid

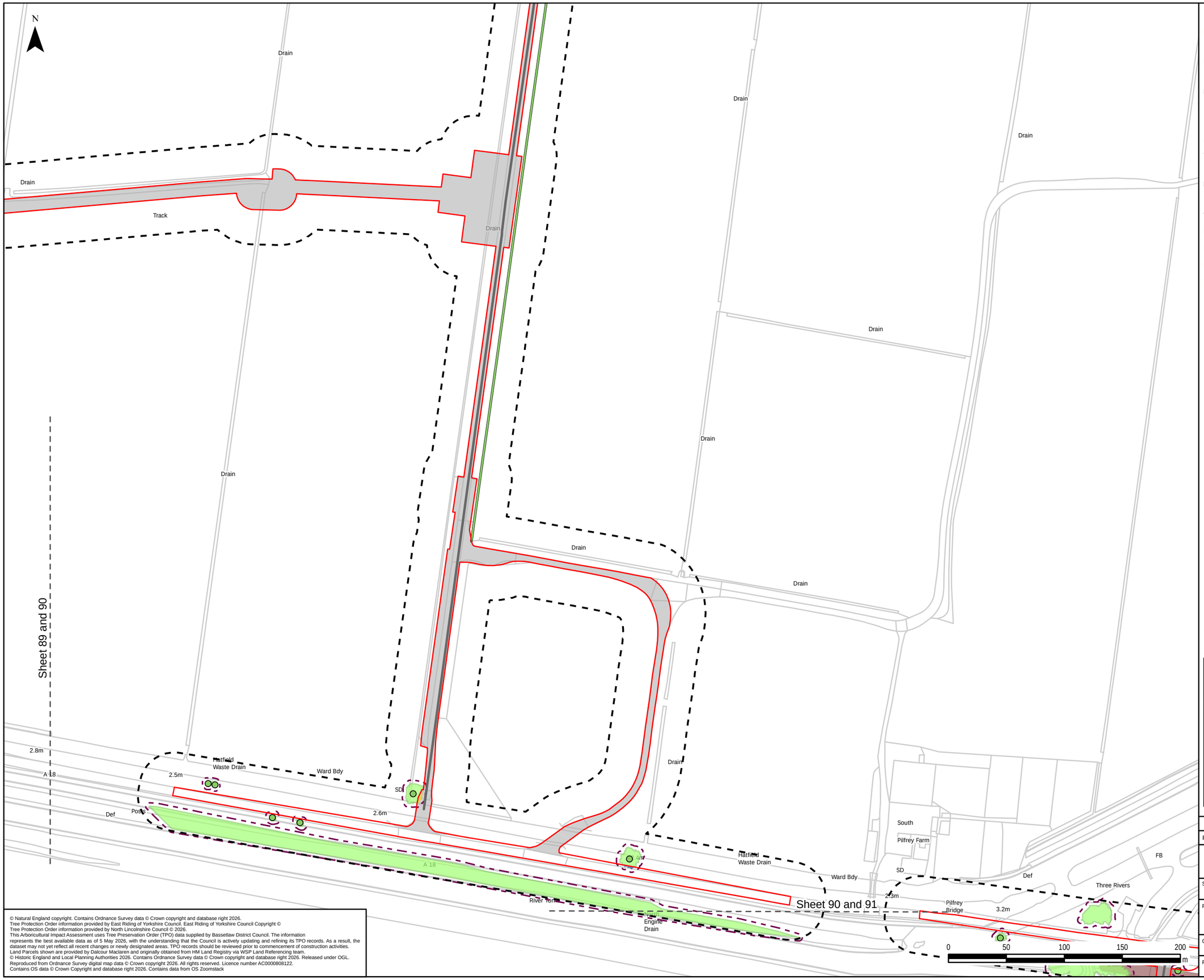
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Other Temporary Construction and Operational Works (Linear)
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

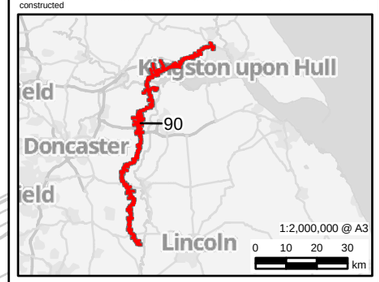
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

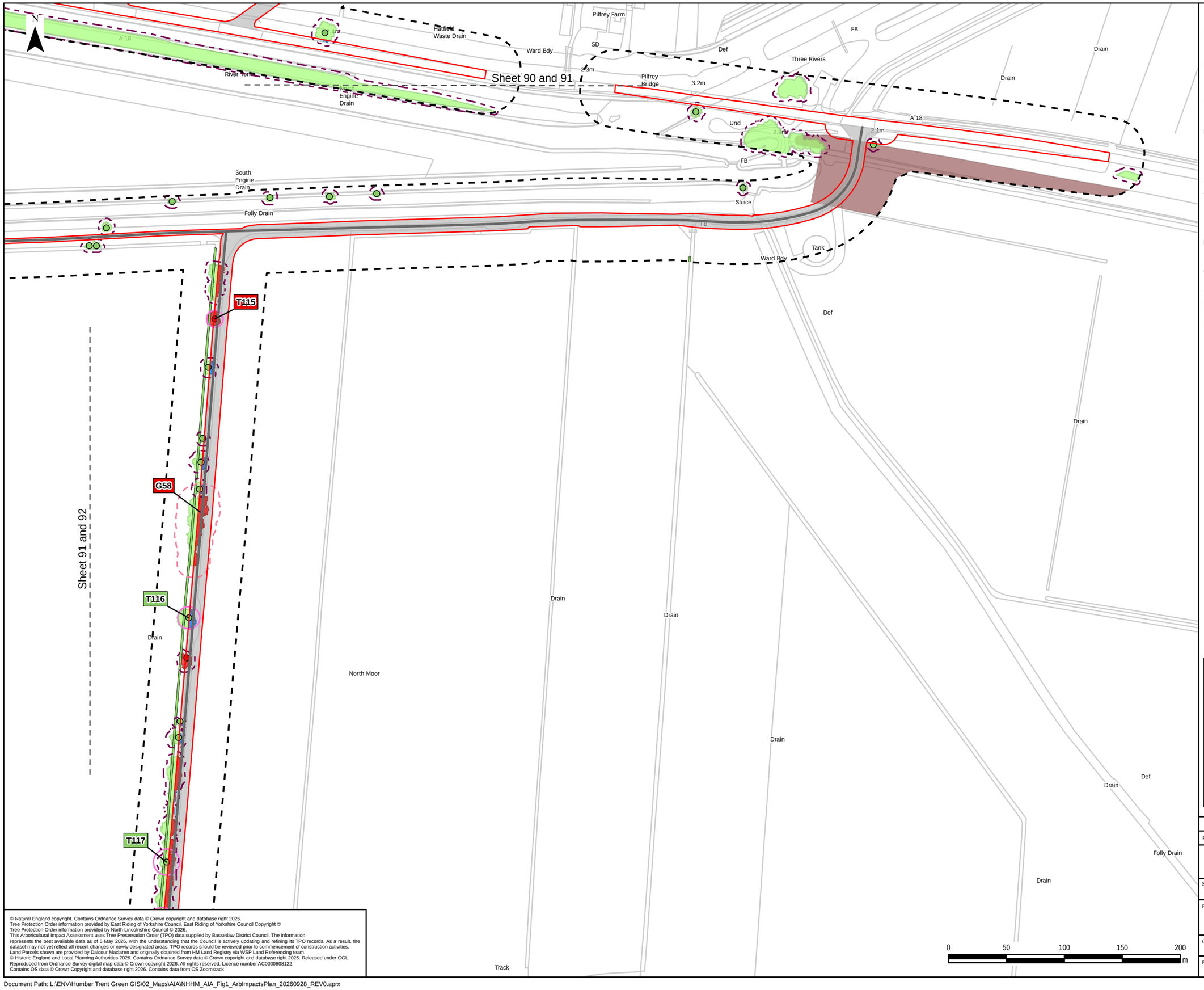
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Other Temporary Construction and Operational Works (Linear)
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Not Affected

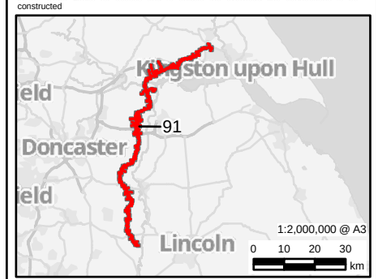
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Not Affected

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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

South Engine Drain

2.0m

Track

Folly Drain

Drain

4AF127

1.8m

Drain

North Moor

Drain

4AF128

T112

ack

T113

Drain

2.2m

Middleton Plantation

Drain

Drain

Slurry Bed

Drain

Biogas Power Station

Tanks

Chy

Tank

Tank

Tank

Chy

Tanks

El Sub Sta

Resr

Silos

Tanks

WB

El Sub Sta

Route Section C

Route Section D

El Sub Sta

Drain

Sheet 92 and 93

Drain

Sheet 91 and 92

G58

T116

Drain

Drain

T117

T118

2.5m

Drain

0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Route Section
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Potentially Affected
- Not Affected

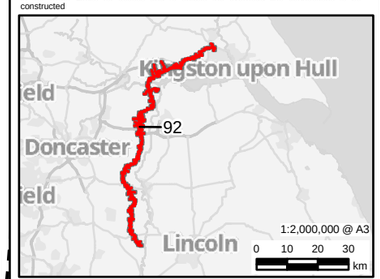
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

T114

4AF129

4AF130

4AF131

Sheet 92 and 93

Sheet 93 and 94

Drain

North Moor

Track

North Moor Drain

Plantation

Dog Horse

1.8m

FB

2.1m

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Potentially Affected
- Not Affected

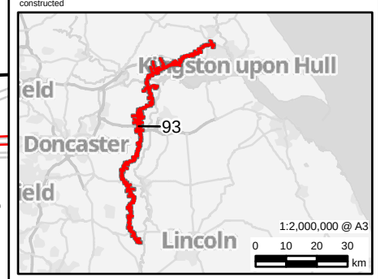
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Potentially Affected
- Not Affected

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Sheet 93 and 94

Sheet 94 and 85

N

Plantation

Drain

Track

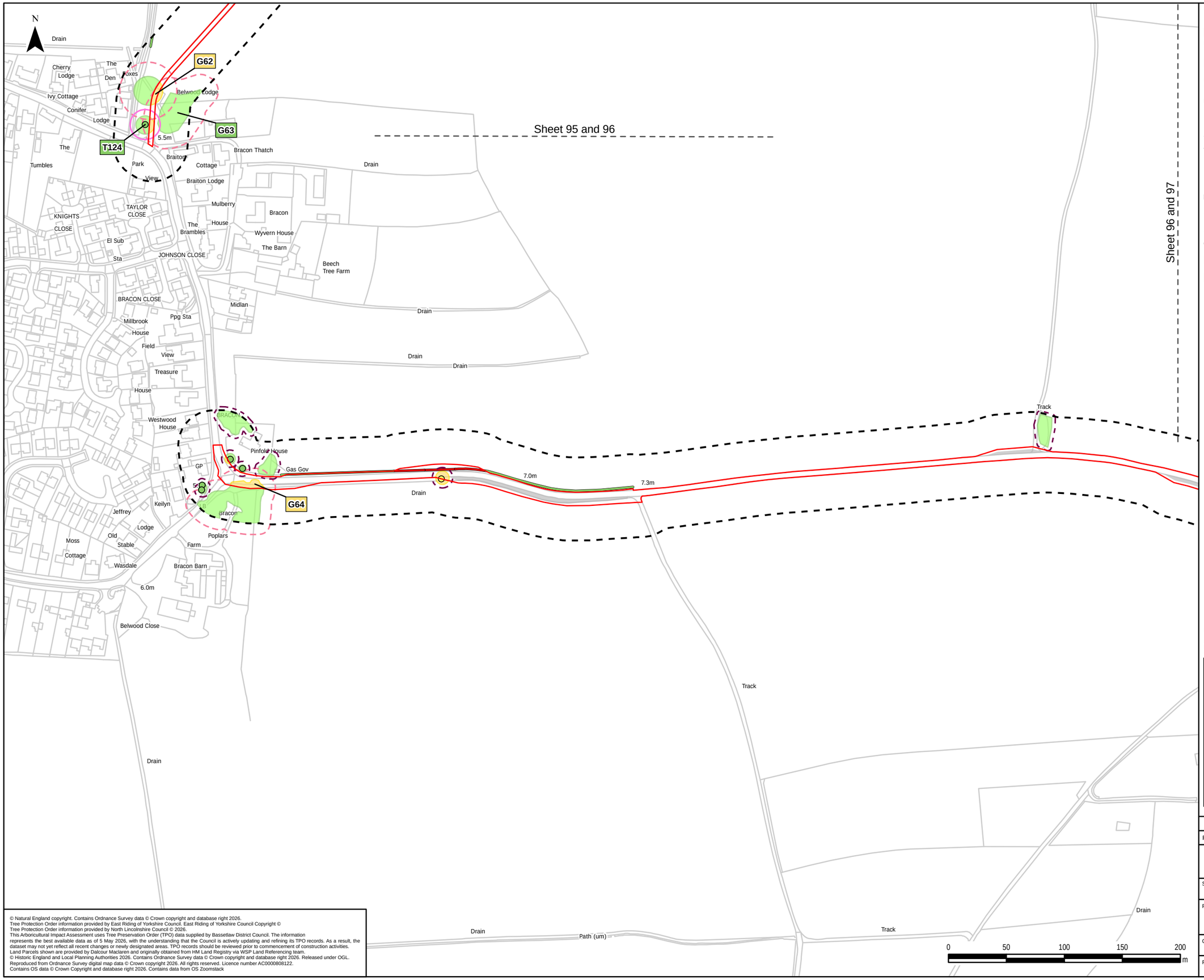
Drain

Drain

Drain

N

Stealgoose Drain
Dismantled Railway
Drain
STEALGOOSE LANE (TRACK)
Stealgoose Drain
Drain
Drain



Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

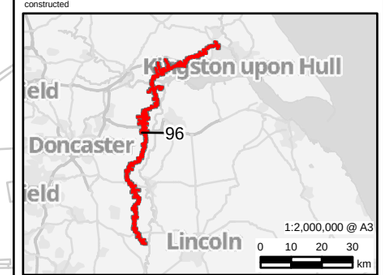
Hedgerow - Impact

- Removed
- Not Affected

Canopy Area - Impact

- Potentially Affected
- Not Affected

NOTE:
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Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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

4AF133

4AF134

4AF135

G61

T122

T123

FB

Drain

Mill Hill Wood

Mill Hill

Pond

Buskey Wood

Track

Sheet 96 and 97

Sheet 97 and 98

Sheet 97 and 99

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Not Affected

Hedgerow - Impact

- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

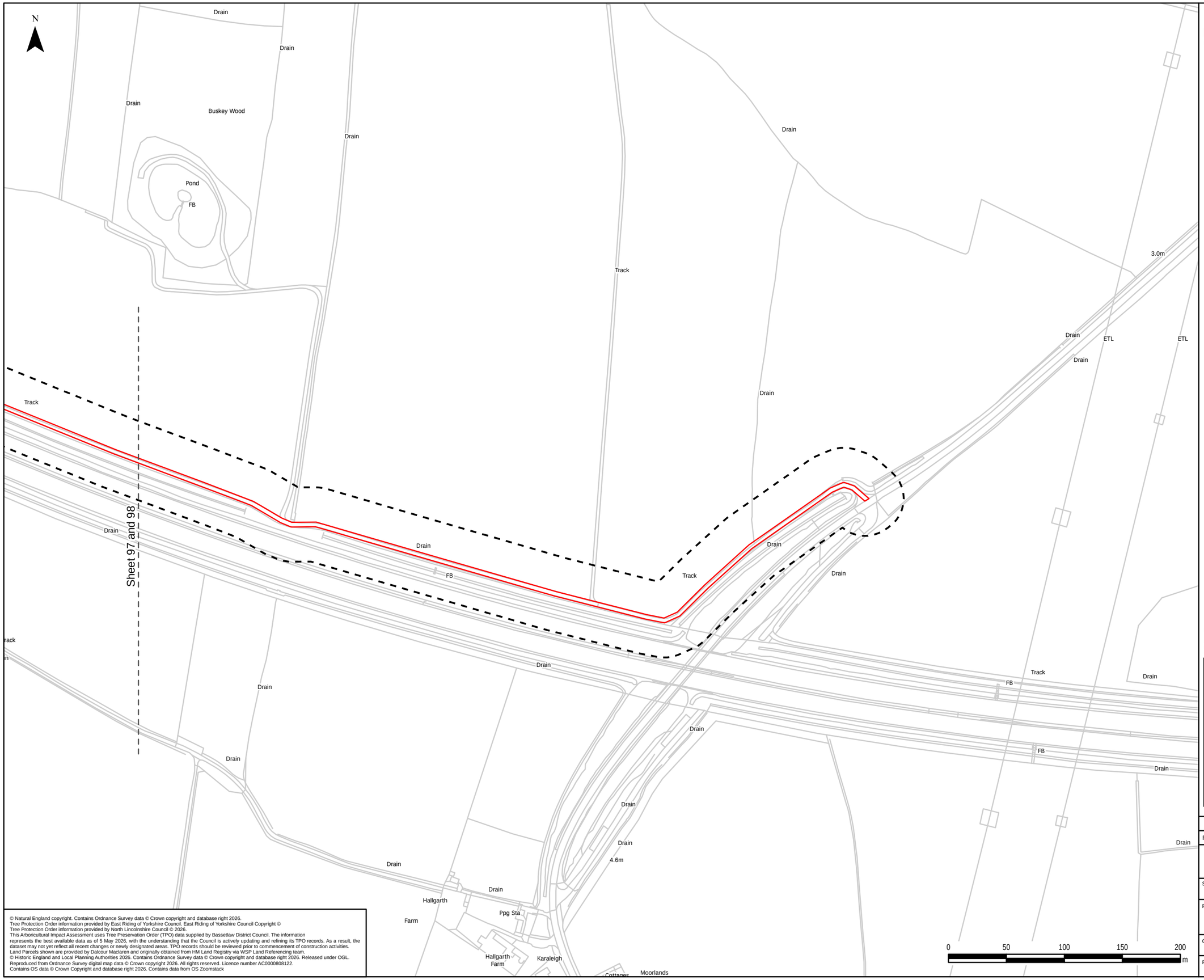
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Legend

- Order Limits
- Arboriculture Study Area (30 m)

NOTE:
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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Sheet 97 and 99

Sheet 99 and 100

N

BELTON ROAD

GURRY LANE (TRACK)

Track

Post

10.6m

10.4m

9.9m

11.9m

11.2m

9.7m

3.1m

2.9m

2.8m

Greengate Cottage

Faircroft

Drain

Bellwood Lodge

Rowan House

Bellwood Villas

Ormonde

Maristowe

Highfields

Holly Well Farm

GP

Haskayne Lodge

Cottage

Holywell Farmhouse

Lime Meadow

Ferndale

Birstall Lodge

4AF136

4AF137

T125

TPO/1998/0028

South Moor

Fishpond

Pond

Plantation

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Not Affected

Hedgerow - Impact

- Removed
- Potentially Affected
- Not Affected

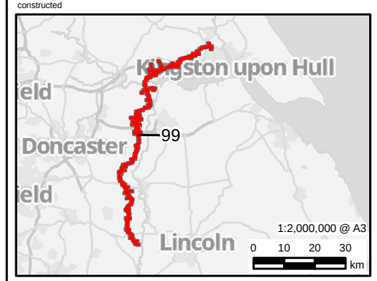
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Tree Preservation Order

NOTE:
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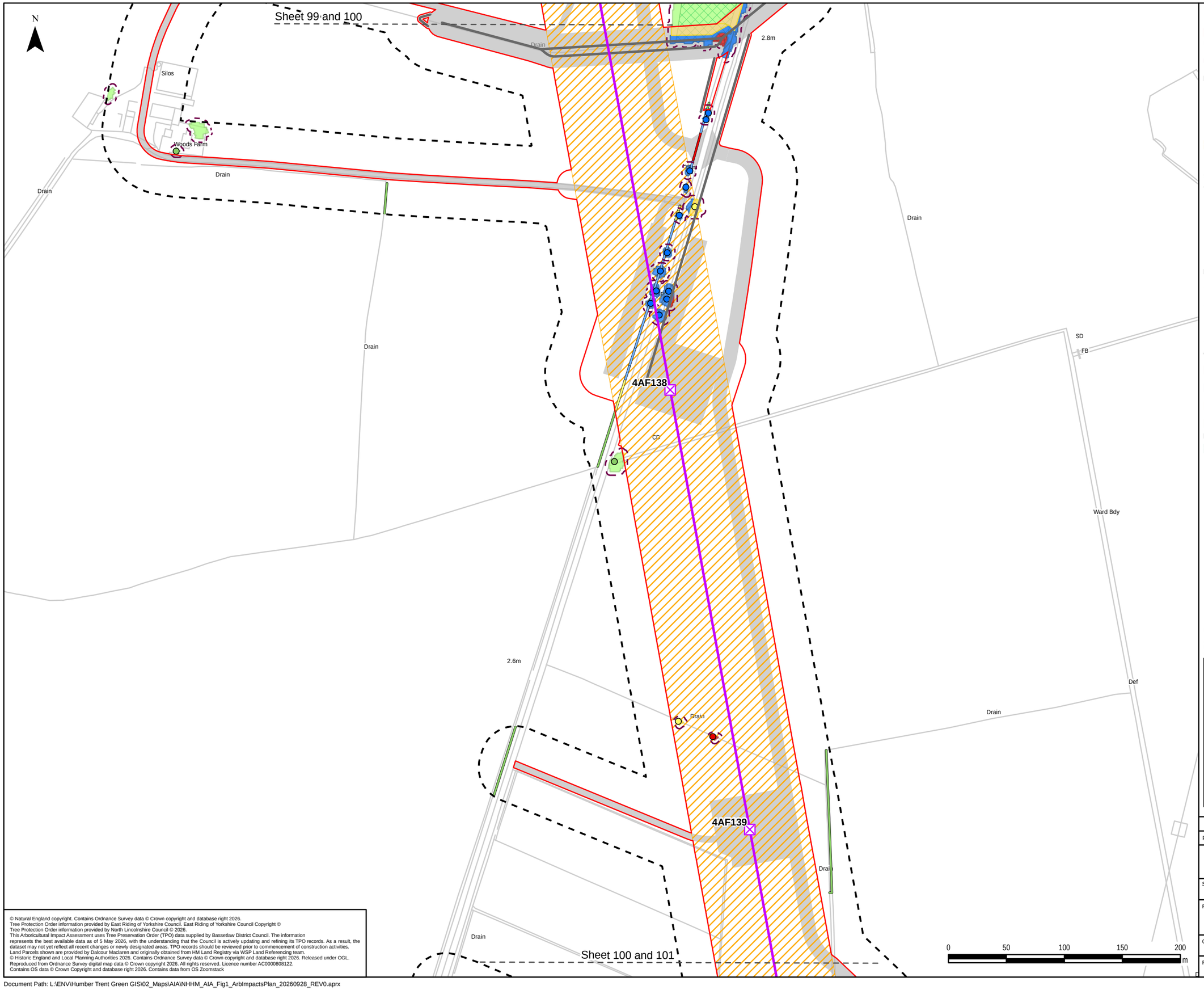
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

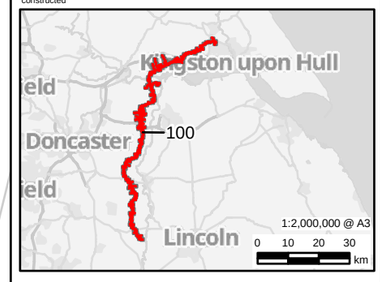
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Tree Preservation Order

NOTE:
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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

Sheet 100 and 101

Sheet 101 and 102

T126

4AF140

4AF141

2.4m
2.7m
2.7m
3.5m
2.7m
2.3m
2.1m

Drain
Track
ETL
Def
Ward Bdy
SD
Cowsitt Hill

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Not Affected

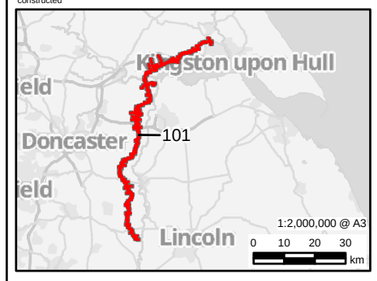
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

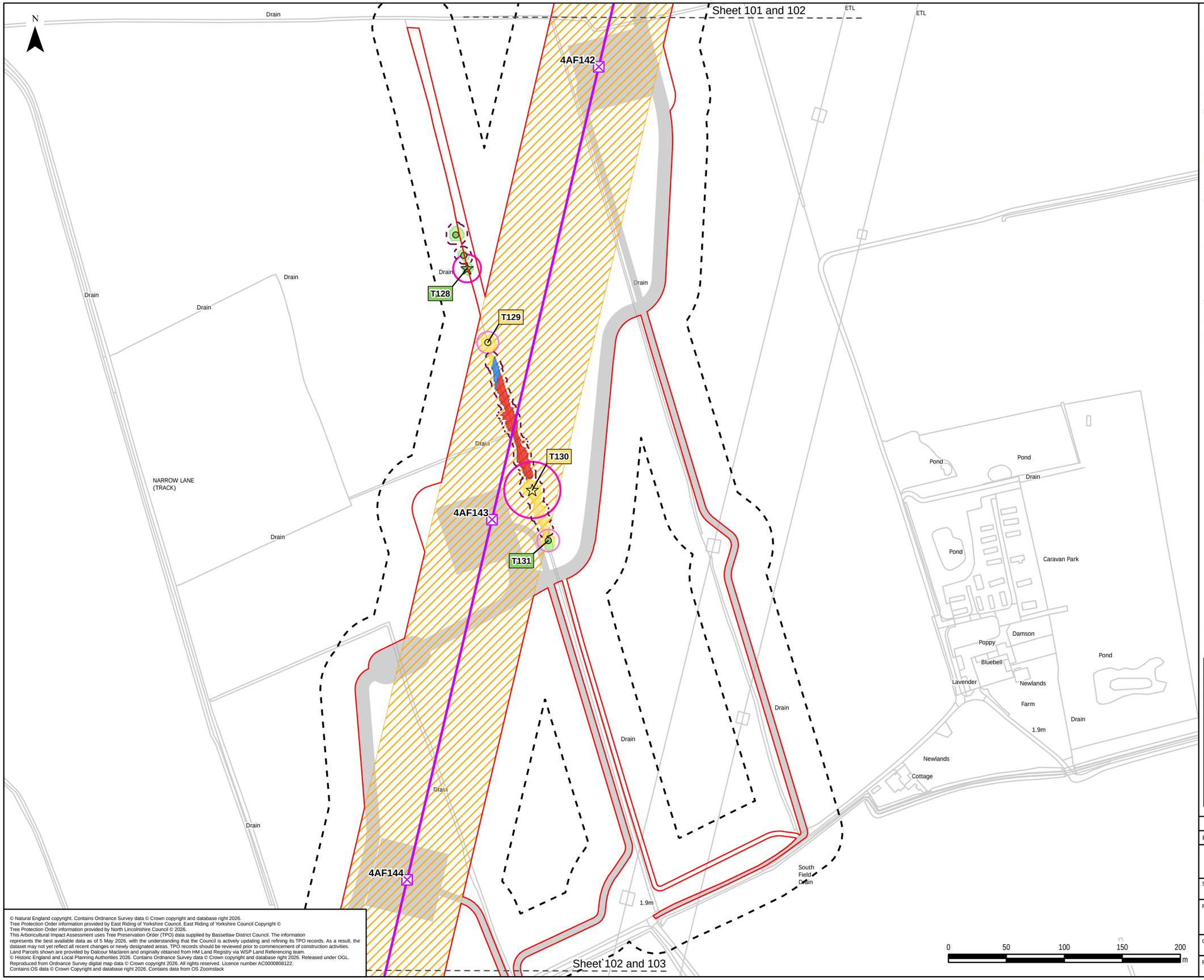
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

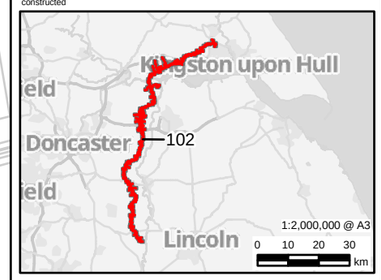
Veteran Tree - Impact

- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

Sheet 102 and 103

Sheet 103 and 104

Track
Kelfield Catchwater
Broad Lane Farm
Drain
4.1m
C Tk
Def
4AF145
4AF146
T132
T133
T134
The Paddocks
Ward Bdy
PADDOCK LANE (TRACK)
2.4m
ETL
FB
Pond
Tk

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

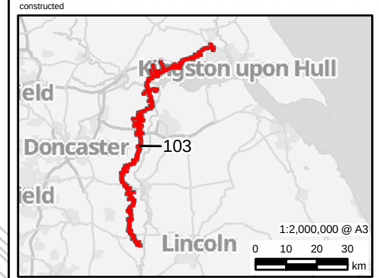
- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

0 50 100 150 200 m

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N

Melwood Grange House

30.6m

29.0m

33.0m

36.1m

38.7m

Drain

Def

Track

Sheet 103 and 104

Sheet 104 and 105

T134

T135

T136

T137

T138

T140

4AF147

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

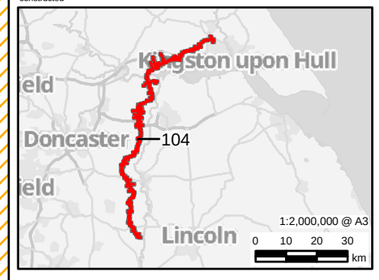
Hedgerow - Impact

- Removed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
1	1:3,000	A3	104 OF 169	0

Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\AIA\NHHM_AIA_Fig1_ArbImpactsPlan_20260928_REV0.aprx

N

Sheet 104 and 105

Sheet 105 and 106

T135
T136
T137
T138
T139
T140
4AF147
4AF148

Drain
Track
Pond
ETL
Ward Bdy
Def
Path (um)
High Melwood Farm
High Melwood
Cottages
Barns
Cottage
High Melwood House
24.9m
22.8m
20.2m
13.7m
11.8m
Ponds

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

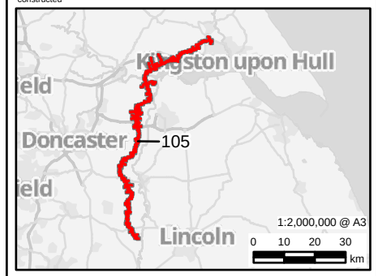
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

Sheet 105 and 106

Sheet 106 and 107

T141
T142
T143
T144
T145
T146
4AF149
4AF150
4AF151
W10

Track
Pond
Drain
Ponds
ETL
Path (um)
FB
Ford
13.3m
11.8m

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Wood
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Not Affected

Veteran Tree - Impact

- Potentially Affected

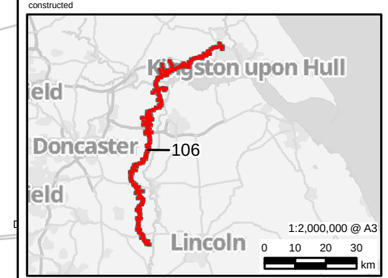
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

Track
Drain
FB
Drain
Drain
Drain
T145
T146
4AF151
Sheet 106 and 107
Drain
Drain
Drain
Drain
Drain
Drain
Drain
Drain
Drain
Pond
Drain
ETL
Drain
Path (um)
Drain
Drain
Track
Track
4AF152
34.1m
Drain
Drain
Path (um)
28.3m
24.5m
Sheet 107 and 108
0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Wood
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Not Affected

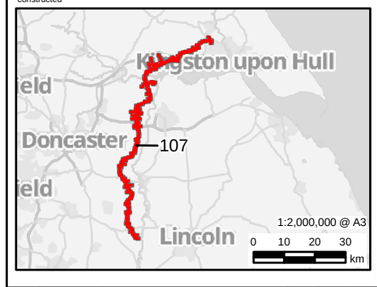
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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

Sheet 107 and 108

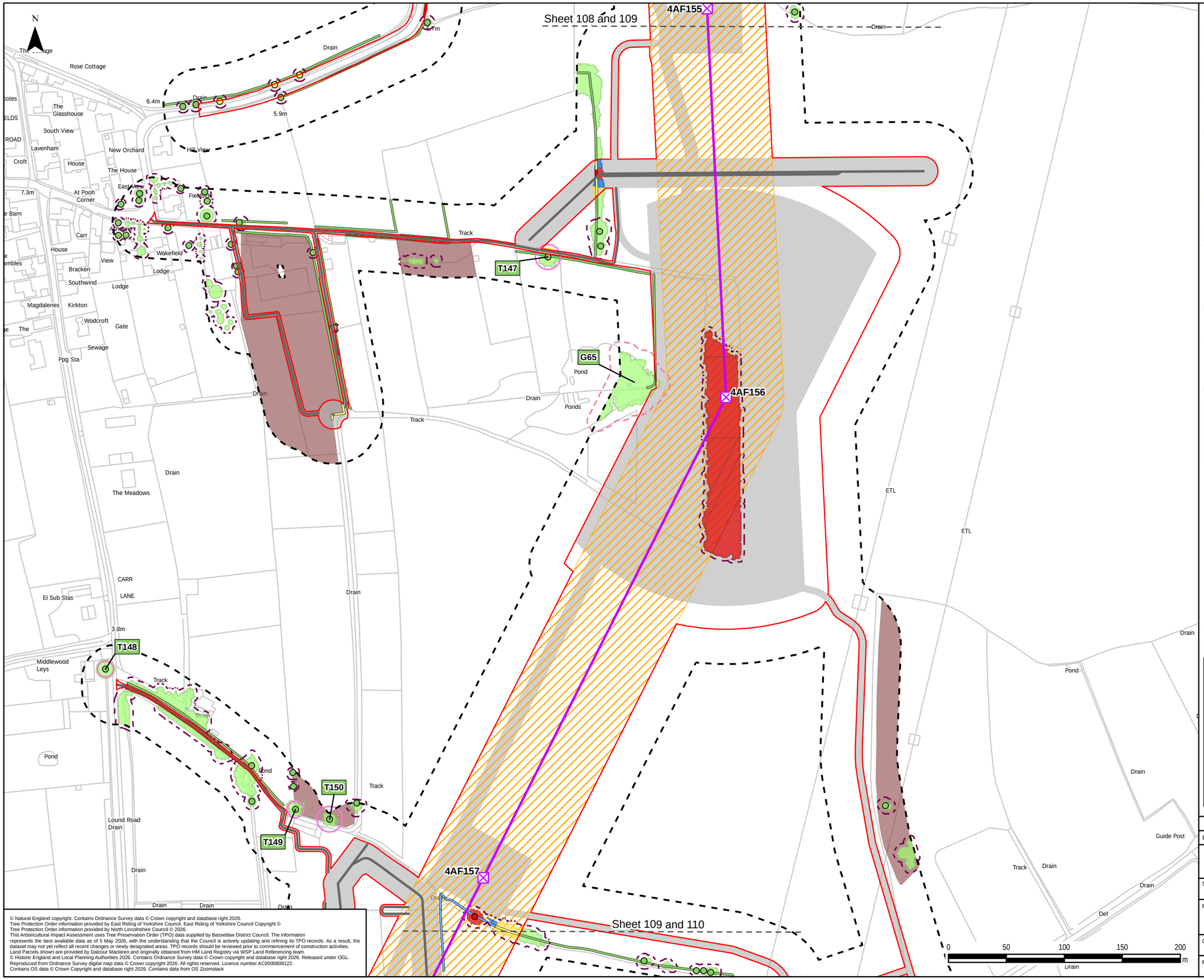
4AF153

4AF154

4AF155

Sheet 108 and 109

Drain
Def
Drain
Drain
Drain



Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Potentially Affected
- Not Affected

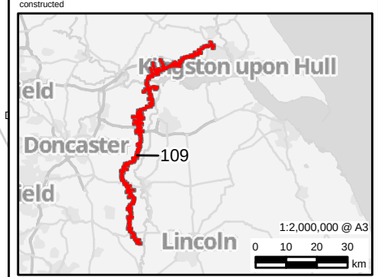
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
1	1:3,000	A3	109 OF 169	0

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N

4AF157

4AF158

4AF159

Sheet 109 and 110

Sheet 110 and 111

T151

T152

T153

G66

G67

G68

2.7m

3.4m

2.9m

3.0m

Drain

Def

Pond

Track

ETL

FB

Catherine Syke

Catherine Syke Drain

Grange Cottages

Owston Grange

Ferry Drain

OWSTON FERRY ROAD

Catchwater Drain

Warping Drain

Path (um)

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Not Affected

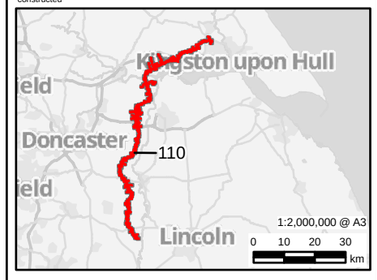
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\AIA\NHHM_AIA_Fig1_ArbImpactsPlan_20260928_REV0.aprx

N

Stableholme
The Cottage
Hazelwood
Sycamore House
House
Poplar
House
Granitha
Ppg Sta
4.2m
Drain
FERRY ROAD
Drain
3.4m
GP
Ferry Road Cottages
Three Gables
Drain
Track
Drain
Drain
Paupuch Drain
Drain
Loundrates Road Drain
Loundrates Farm
SD
2.7m
Track
Kennels
Silo
Sheet 110 and 111
Track
Doncaster Road Drain
Drain
Drain
Drain
Drain
Ruin
Drain
Drain
Drain
Drain
FB
Drain
Sheet 111 and 112
4AF160
0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

Sheet 111 and 112

Sheet 112 and 113

4AF160

4AF161

4AF162

Drain

Drain

Drain

Drain

Drain

Drain

Drain

Drain

Ferry Drain

Ferry Drain

Warping Drain

Warping

Doncaster Road Drain

Catchwater Drain

GUNTHORPE ROAD

Track

2.2m

GP

Four

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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N

Drain
Ferry Drain
Def
Warping Drain
GUNTHORPE
Track
Drain
Sheet 112 and 113
Def
Drain
Drain
CD
4AF162
Drain
STOCKWITH
ROAD
Drain
4AF163
Track
Drain
Drain
Drain
4AF164
Drain
Drain
Drain
Drain
Sheet 113 and 114
0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title:

FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

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N

Sheet 114 and 115

Sheet 113 and 114

4AF164

4AF165

4AF166

4AF167

G69

G70

STATION ROAD

HAXEY GATE ROA

Track

Drain

Railway Station

The Old

Pond

Flight Haven

Keriensa

White House

MP 1.75

MP 0.5

Level Crossing

Richmond Farm

Alandale

Post

Def

CD

Railway Crossing

2.5m

4.0m

FF

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Local Authority Boundary
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

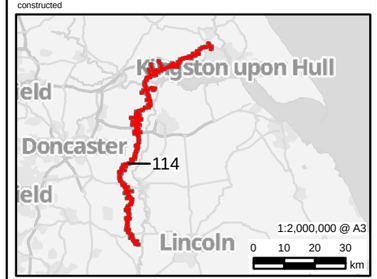
- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

0 50 100 150 200 m

NOTE:
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nationalgrid

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

Sheet 114 and 115

Sheet 115 and 116

Pond

Flight Ha

Drain

Drain

Drain

Drain

Drain

Drain

Drain

Drain

Drain

Drain

Drain

Tank

New Houses

Langholme Manor

Track

North Lincolnshire Council

Bassetlaw District Council

SD

Co Const & UA Bdy

3.1m

Langholme Cottages

FB

Tindale Bank Drain

2.8m

TINDALE BANK ROAD

2.5m

Co Const & UA Bdy

2.5m

4AF167

4AF168

4AF169

4AF170

Moates Drain

Moates Drain

North Carr

Silo

North

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Local Authority Boundary
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Drain
Drain
FB
FB
2.7m
North Lincolnshire Council
Bassetlaw District Council
2.9m
Tank
New Houses
Langholme
Manor
Track
SD
Co Cons & UA Bd
Langholme Cottages
FB
Tindale Bank Drain
Sheet 115 and 116
Mostes Drain
4AF170
Drain
North Carr
4AF171
Path (um)
Drain
Drain
T154
T155
T156
T157
Track
Track
Drain
Participants
Sluice
River Idle
Outfall
Swarrs Drain
Route Section D
Route Section E
Dismantled Railway
Barrier Bank
Mother Drain
Ponds
Drain
Track
Sheet 116 and 117
0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Local Authority Boundary
- Route Section
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Affected Managed
- Not Affected

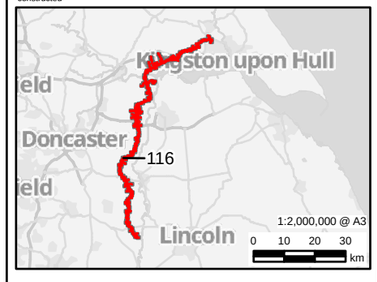
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Sheet 116 and 117

Sheet 117 and 119

Sheet 117 and 118

Route Section D

Route Section E

Barrier Bank

Mother Drain

Drain

Track

Pond

4AF172

4AF173

T163

T164

B000082

DEBDHILL ROAD (TRACK)

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Route Section
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

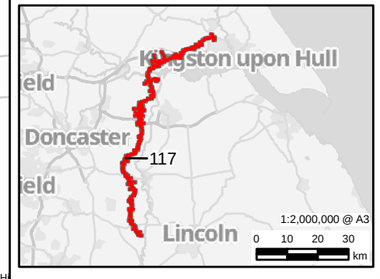
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Tree Preservation Order (Indicative Location)

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Scheme: NORTH HUMBER TO HIGH MARNHAM

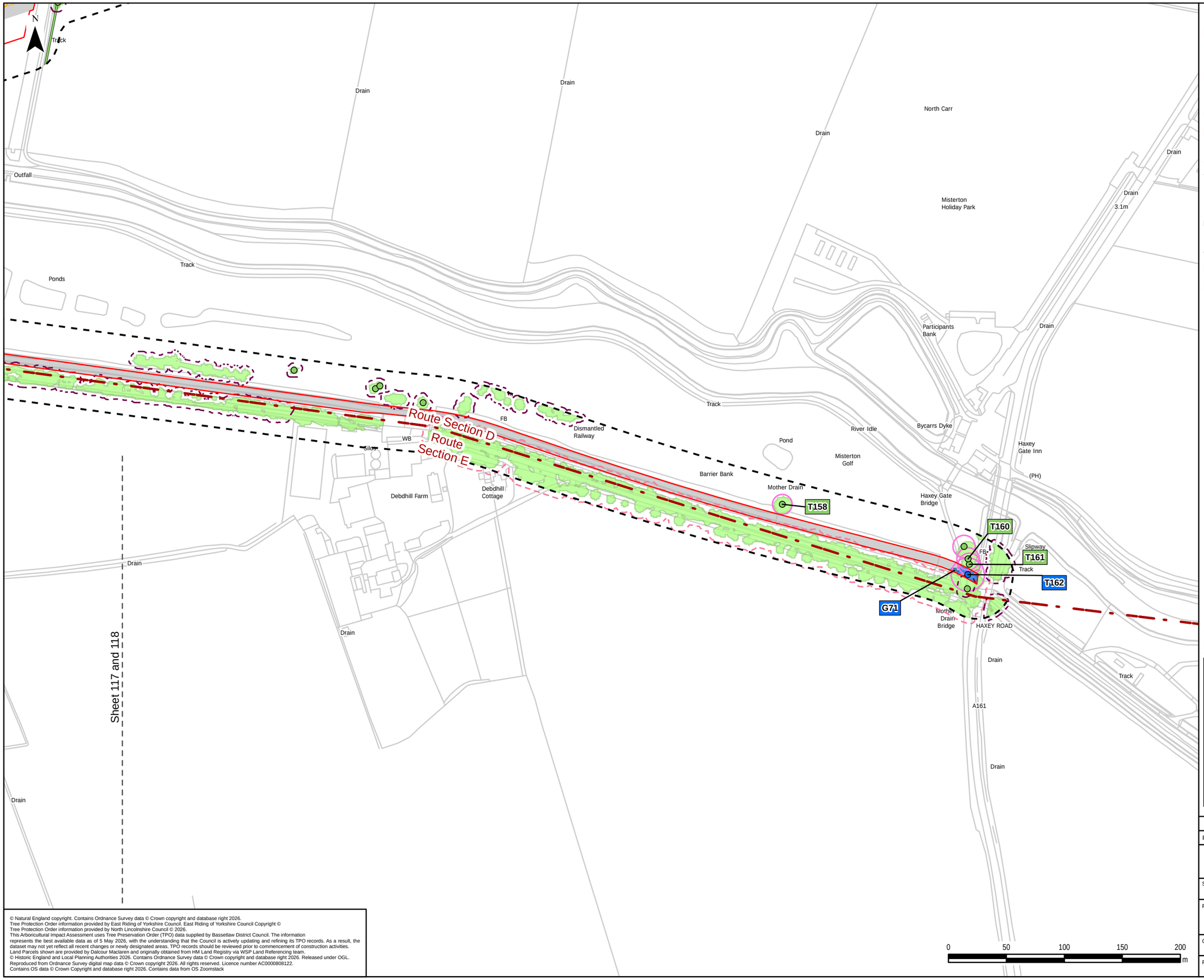
Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Route Section
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Not Affected

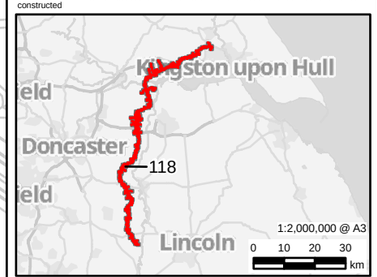
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Affected Managed
- Not Affected

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Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Cornley Carr Farm

CORNLEY ROAD

Drain

Drain

Drain

N

Sheet 119 and 120

DEBDHILL ROAD

CORNLEY ROAD

Drain

Carr Ings Drain

FB

Red House

4.2m

4.0m

3.6m

3.9m

5.9m

T167

T168

G72

G73

Town End Farm

Misterton Carr

Corner Cottage

CARR LANE

ASHLEA

WILLOW AVENUE

CATTLE ROAD

El Sub Sta

Southdene

GP

CHURCH LANE

PARK AVENUE

Bryn-Teg

The Old Threshings

El Sub Sta

Debdhill House

The Old Stables

Heron Garth

Raven Holt

Ravens Farm

Holme

The Old Barn

The Farmhouse

Willow Tree

Vicarage

The Rosary

Greensleeves

Windwhistle

Grange

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Not Affected

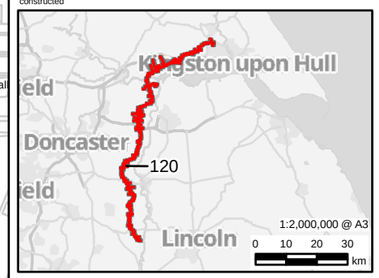
Hedgerow - Impact

- Removed
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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nationalgrid

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N

Carr Ings Drain

Sheet 119 and 121

Sandholes Drain

4AF176

Pond

Drain

Drain

Drain

Cattle Farm

Drain

WB

CATTLE ROAD

Drain

Drain

Drain

4AF177

Drain

Drain

Sheet 121 and 122

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Potentially Affected
- Not Affected

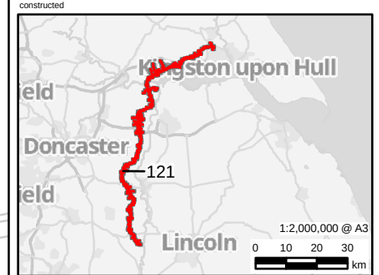
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Removed
- Potentially Affected
- Not Affected

NOTE:
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N

Drain
Drain
Drain
Carr House
Cornley Drain
Cattle Farm
Drain
CATTLE ROAD
WB
3.4m
2.3m
Drain
Drain
Misterton
Middle
Drain
Sheet 121 and 122
Track
3.1m
Green's Yard
4AF178
Sheet 122 and 123
Cornley Drain
Def
Ward Bdy
0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Not Affected

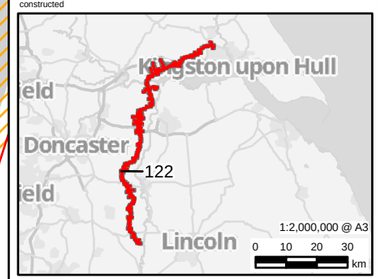
Hedgerow - Impact

- Affected Managed
- Not Affected

Canopy Area - Impact

- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
1	1:3,000	A3	122 OF 169	0

Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\AIA\NHHM_AIA_Fig1_ArbImpactsPlan_20260928_REV0.aprx

N

4AF178

4AF179

4AF180

Sheet 122 and 123

Sheet 123 and 124

Drain

Drain

Def

Def

Water Body

0 50 100 150 200 m

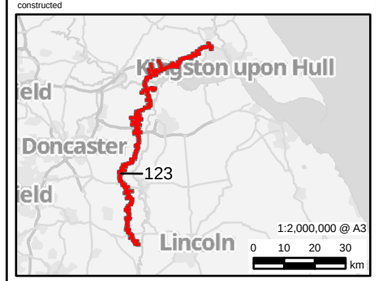
Legend

- Order Limits
- Arboriculture Study Area (30 m)

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

NOTE:
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

Sheet 123 and 124

4.5m

Track

4.1m

Drain

4AF181

Def

Taylor Drain

s Drain

Gringley Carr

Def

Drain

Ward Bdy

Ings Drain

4AF182

Sheet 124 and 125

Wooden Beck Drain

Drain

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Not Affected

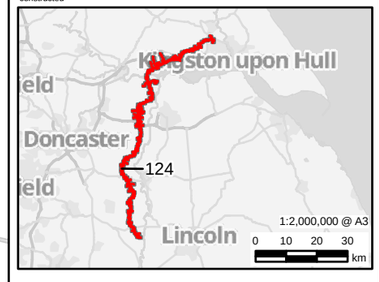
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Not Affected

NOTE:
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Rev	Date	Description	GIS	Chk	App
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

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

Gringley Carr

Ings Drain

Drain

Ward Bdy

4AF182

Sheet 124 and 125

Wooden Beck Drain

Drain

Ward Bdy

Drain

Drain

Track

4AF183

Track

Leys Farm

Drain

Sheet 125 and 126

Wooden Beck

4AF184

G74

Pond (dry)

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

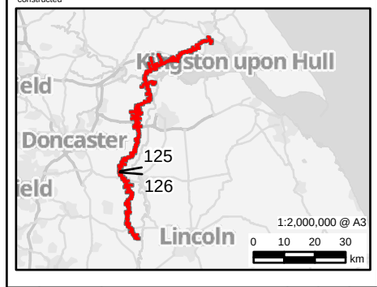
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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

4AF183

4AF184

4AF185

T169

T170

G74

Sheet 125 and 126

Sheet 126 and 127

Drain

Leys Farm

Wooden Beck

Chesterfield Canal

Solar Panels

Dunstan Farm

Shaw Bridge

SHAW ROAD

Shaw Lock

Shaw Lock Cottage

Ings Cottage

Cottage

Bol

FB

12.9m

Lowfield Farm

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

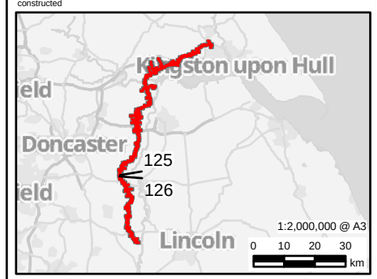
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

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N

Sheet 126 and 127

Sheet 127 and 128

4AF186

4AF187

T171

T172

T173

Lowfield Farm

Ward Bdy

CS

Wooden Beck

Drain

15.9m

23.2m

21.7m

24.9m

22.9m

38.7m

37.1m

WALKERINGHAM ROAD

Track

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Not Affected

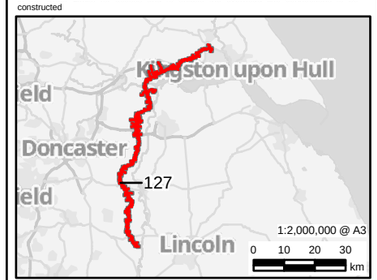
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

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

Sheet 127 and 128

4AF188

4AF189

4AF190

T174

Sheet 128 and 129

Drain

Def

Ward Bdy

Grange Farm Cottages

Grange Bungalows

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Not Affected

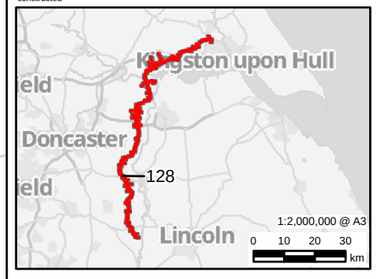
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

Sheet 128 and 129

Sheet 129 and 130

4AF190

4AF191

4AF192

T174

T175

T176

Drain

Track

Farm

Grange

Cottages

Grange Bungalow

Gringley Grange

A631

Cattle Grid

Ward Bdy

66.6m

55.0m

49.9m

48.9m

47.1m

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Potentially Affected
- Not Affected

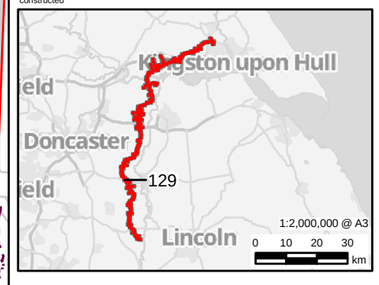
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Def

Drain

Ward Bdy

Drain

WEST ROAD
(TRACK)

4AF191

48.9m

44.8m

A631

T177

Farm

Sandy Furze

Sandyfurze

Bungalow

39.4m

Drain

Lay-by

Drain

Track

Drain

Drain

Drain

Sheet 129 and 130

4AF192

Oil Well

Drain

Sheet 130 and 131

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

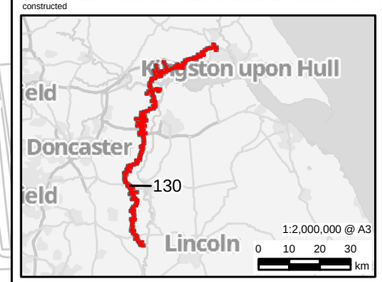
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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Rev.	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
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Sheet 130 and 131

N

Drain

39.1m

39.5m

37.3m

Drain

Ash Lea

Mingulay

4AF193

G76

T178

Drain

Track

Wood Farm

G77

Wood Farm

Bungalow

28.2m

Drain

Sheet 131 and 132

24.9m

28.6m

Drain

25.5m

Drain

G78

4AF194

T179

Track

T180

Tong's Wood

4AF195

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

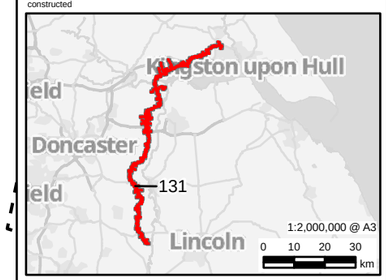
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Ancient Woodland

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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N

37.3m

ingulay

Drain

33.1m

34.4m

The

Mount

32.8m

28.5m

26.9m

Sheet 131 and 132

Drain

Track

G79

Moor Close Cottage

T180

Drain

Drain

Sheet 132 and 133

0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Potentially Affected
- Not Affected

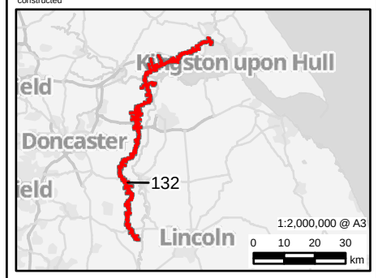
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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N

Dogholes Wood (Ancient Woodland)

Dogholes Wood

Drain

FB

Drain

T181

G80

4AF195

Sheet 132 and 133

Drain

4AF196

Ford

T182

Track

Def

37.9m

4AF197

Track

Drain

Track

Sheet 133 and 134

Park

Farm

T183

29.9m

Co Const, ED & Ward Bdy

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

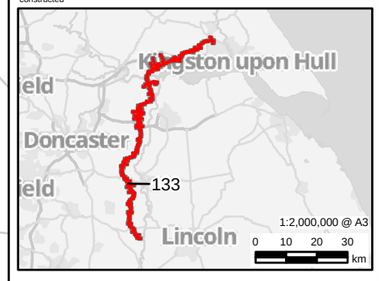
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Ancient Woodland

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N

Sheet 133 and 134

Sheet 134 and 135

Sheet 134 and 136

Track

Drain

Drain

Saundby Park

Park

Farm

Tank

T183

G81

23.6m

Park

Saundby

Drain

Fld

20.8m

Drain

21.3m

24.0m

Drain

Co Const, ED
& Ward Bdy

Def

Co Const, ED
& Ward Bdy

Def

Bumble
Bee Farm

Bumble
Bee Hall

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Other Temporary Construction and Operational Works (Linear)
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

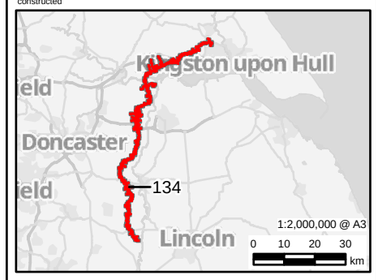
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Affected Managed
- Potentially Affected
- Not Affected

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Other Temporary Construction and Operational Works (Linear)
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Not Affected

Discipline-Specific Constraint

- Conservation Area

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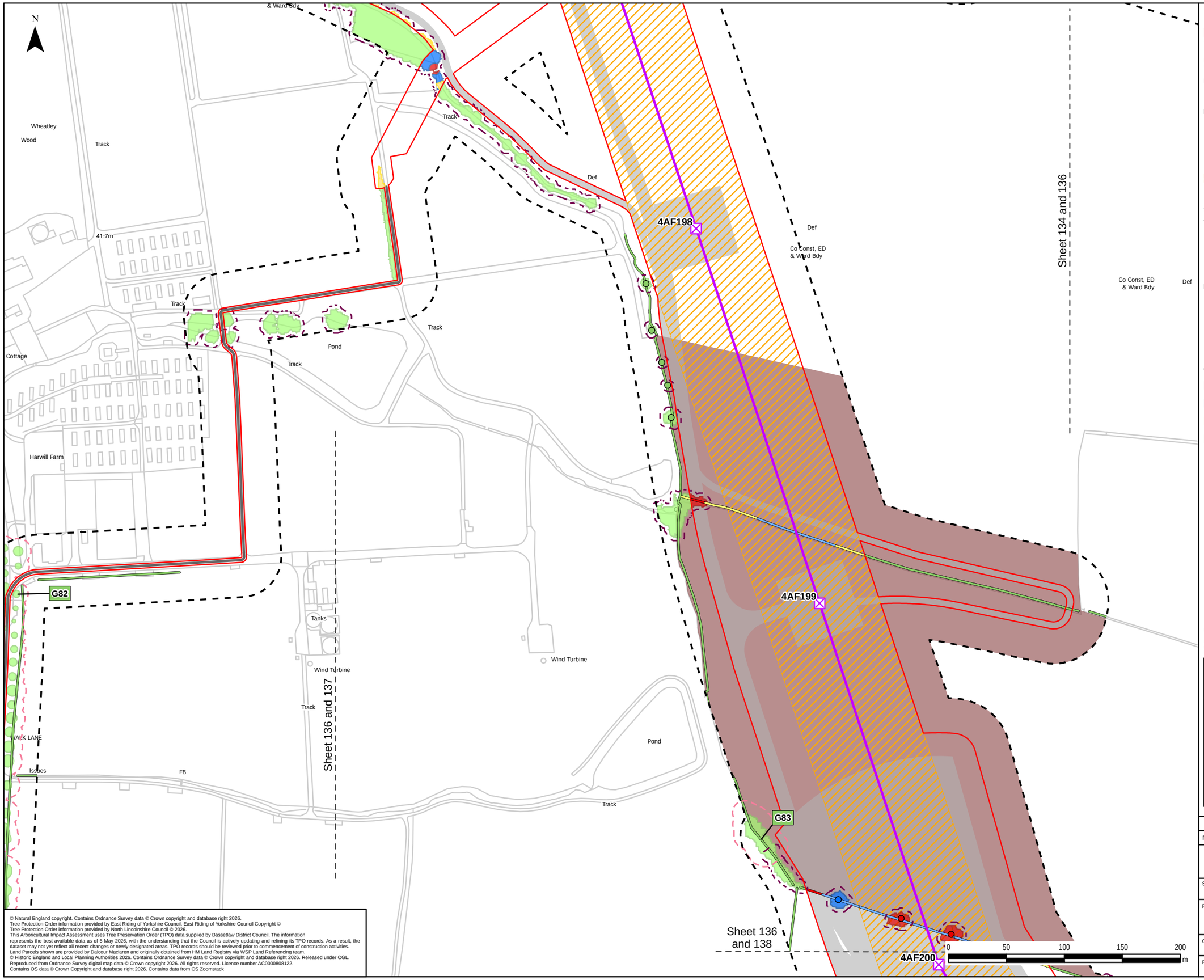
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Not Affected

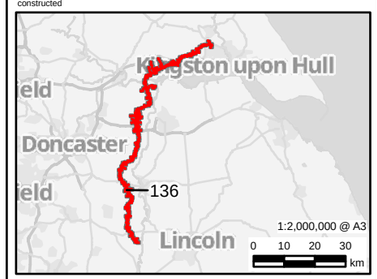
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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N

Cottage
Wheatley
Wood
Farm
Harvest Cottage
Foxlands
Ford
Pond
Harwill Farm
Track
Pond
Pond
Track
Track
Track
Track
Tanks
Wind Turbine
Wind Turbine
Sheet 136 and 137
44.4m
VALK LANE
Issues
FB
G82
T185
T186
B000035
47.1m
46.8m
43.1m
WOOD LANE

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Other Temporary Construction and Operational Works (Linear)

Vegetation Impact

Tree - Impact

- Not Affected

Hedgerow - Impact

- Not Affected

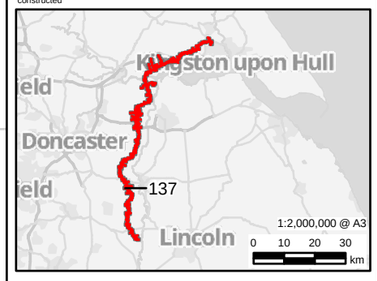
Canopy Area - Impact

- Not Affected

Discipline-Specific Constraint

- Tree Preservation Order (Indicative Location)

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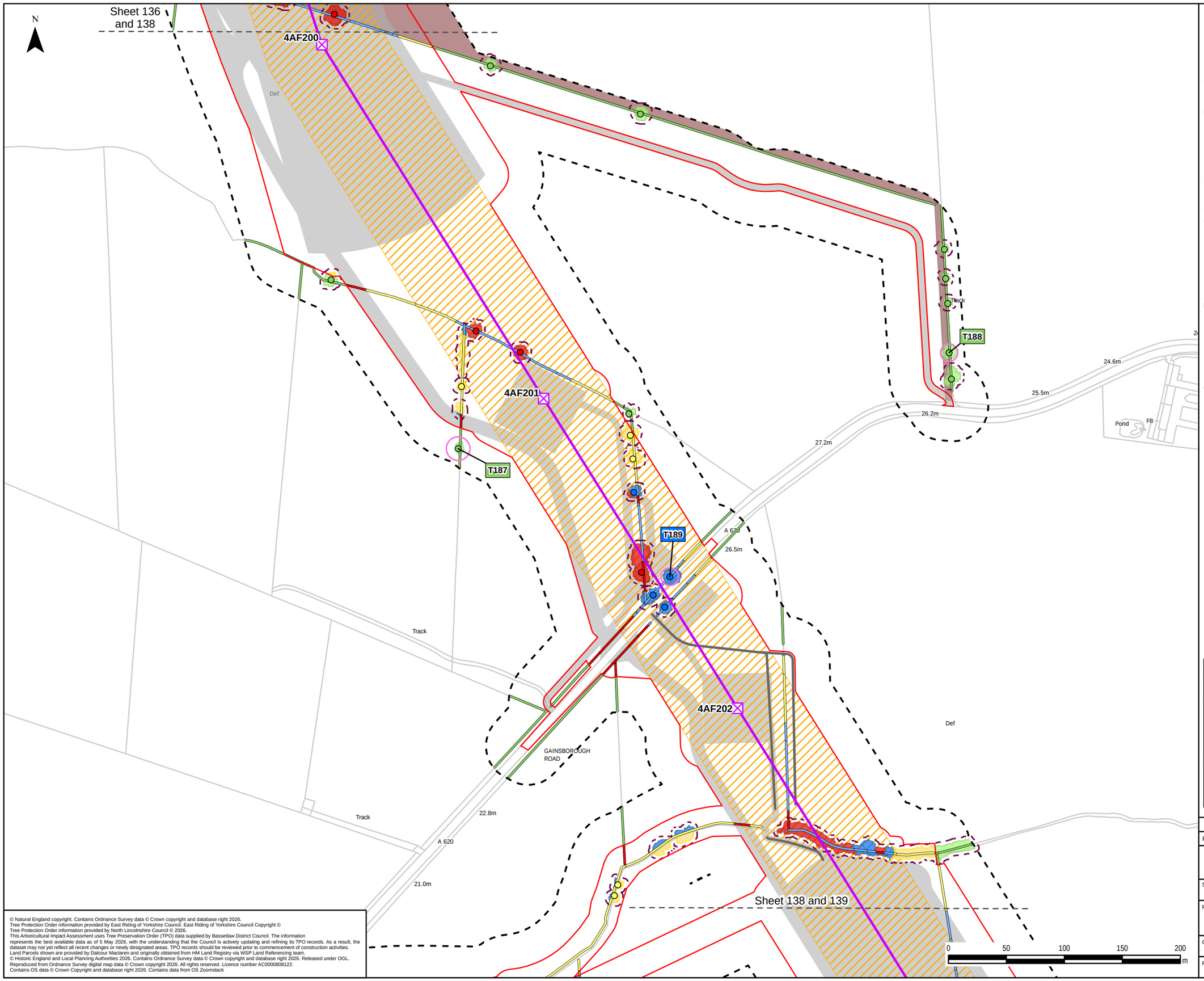
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Legend

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- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

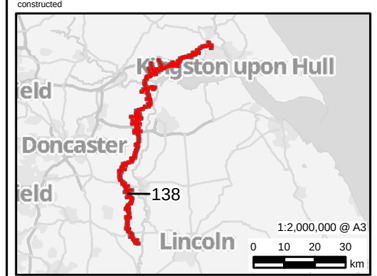
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
1	1:3,000	A3	138 OF 169	0

Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\AIA\NHHM_AIA_Fig1_ArbImpactsPlan_20260928_REV0.aprx

N

A 620

21.0m

20.0m

1m

Sheet 138 and 139

4AF203

4AF204

4AF205

Sheet 139 and 140

Sheet 140 and 141

Track

Drain

PHID47763691_038581753

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

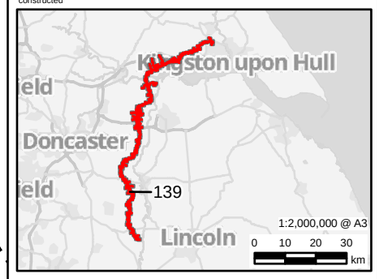
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Traditional Orchard

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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N

4AF204

4AF205

4AF206

T190

T191

T192

T193

T194

PHID47763691_038581753

Sheet 139 and 140

Sheet 140 and 141

Sheet 140 and 142

High Farm

High Farm Cottages

Def

Track

Drain

Wheatley Beck

Oswald Beck

Pond

FB

CS

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

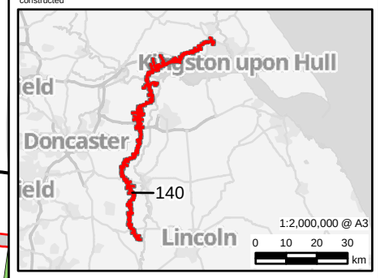
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Traditional Orchard

NOTE:
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Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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N

PHID47665869_038597558

27.9m
26.7m
26.0m
24.3m
26.1m
20.0m

A 620
Narnia
EASTFIELD MEADOW
Eastfield
Roses
Savile Court
Top Pasture House
Kintail
Holt
Redhaugh
Lyndale
Hapil
Lavender
House
Bamburgh
House
Whitegates
House
Greenhaven
Cherrington
Thornhill
Heather Bank
The Croft
Bookends
South View
Edge
Bank
Cottage
Villa
Vine
Leaside
Kerwood
Oak Tree Cottage
FB
Play Area
Sports Pavilion
Tennis Courts
C of E Primary School
Hall
Recreation Ground
Wheatley Beck
El
Sub Sta
Meadowcroft
TOP PASTURE LANE
LOW PASTURE LANE
Track
Track
Drain
Tanks
Sludge Tank
Pond
Sewage Works
Orchard
Lodge
The Granary
Victoria Orchards
Villa
The Ferns
Romerie
Lowenva
Moss Lea
BURTON LANE (TRACK)
St Helen's Church
(remains of)
Graveyard
Stables
Pond

Sheet 140 and 141

0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy
- Temporary Construction and Operational Works (Area)

Vegetation Impact

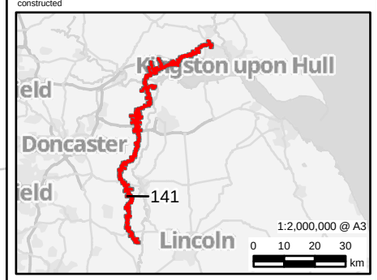
Tree - Impact
- Not Affected

Hedgerow - Impact
- Potentially Affected
- Not Affected

Canopy Area - Impact
- Potentially Affected
- Not Affected

Discipline-Specific Constraint
- Traditional Orchard

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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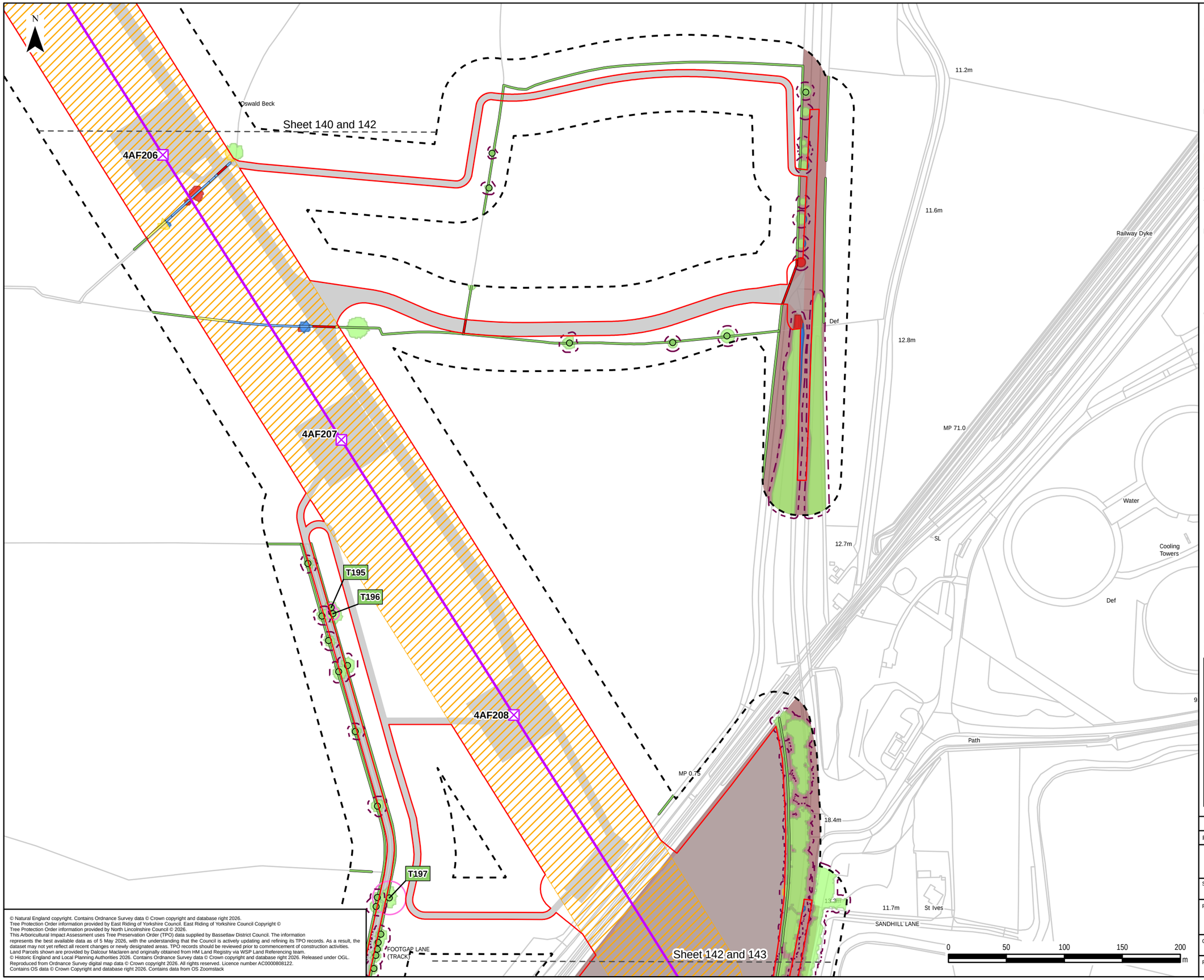
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

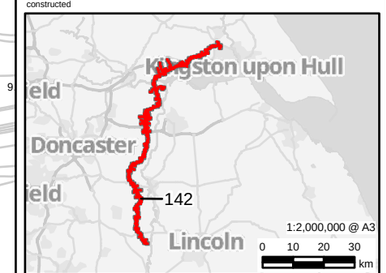
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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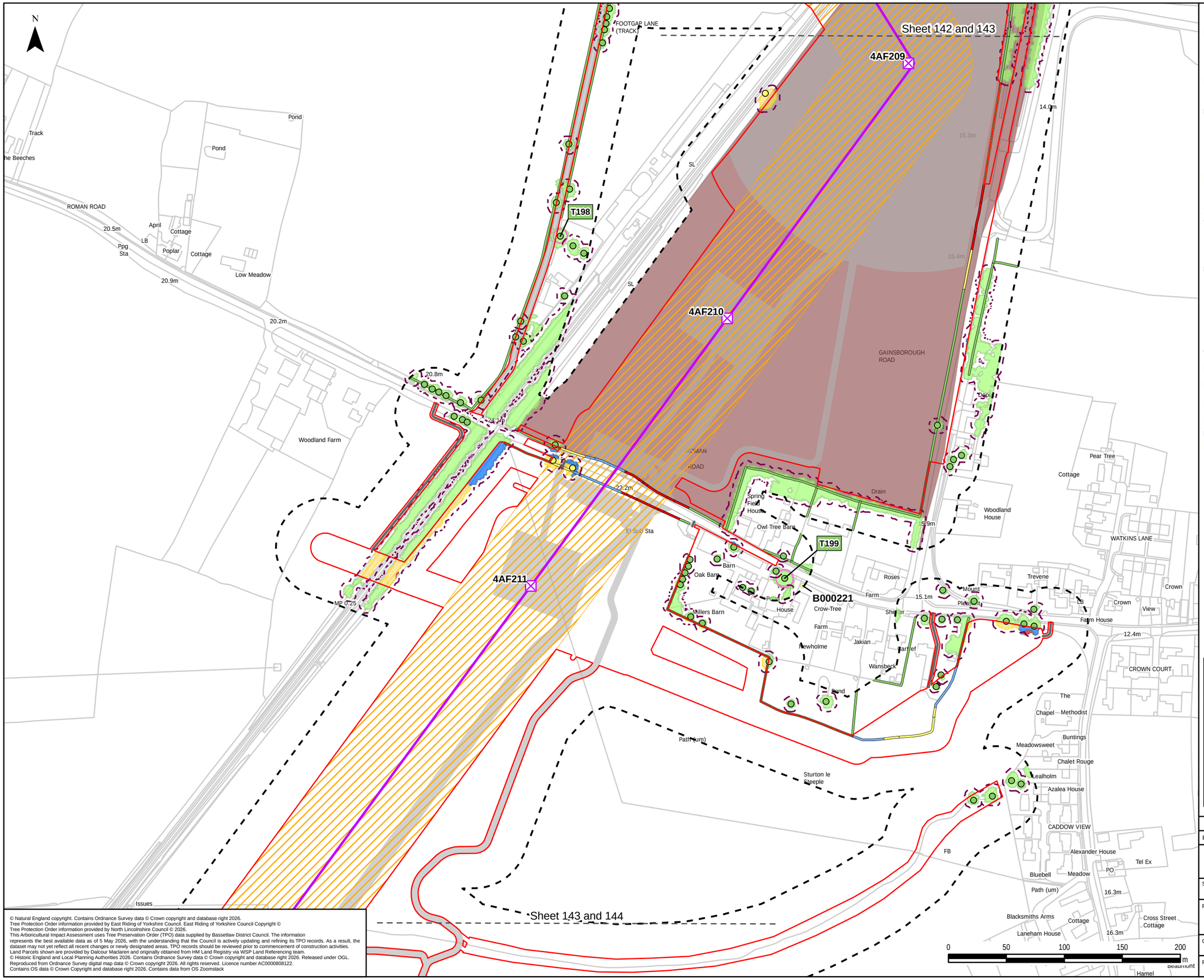
Scheme: NORTH HUMBER TO HIGH MARNHAM

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N
Sheet 142 and 143
Sheet 143 and 144
FOOTGAP LANE (TRACK)
4AF209
4AF210
4AF211
T198
T199
B000221
ROMAN ROAD
GAINSBOROUGH ROAD
WATKINS LANE
CROWN COURT
CADDOW VIEW
Track
Pond
Pond
Pond

N

Drain

Issues

MP 70.0

Sheet 143 and 144

4AF212

4AF213

4AF214

T200

T201

T202

T203

23.8m

24.4m

WOOD LANE
(TRACK)

SL

Level
Crossing

22.7m

21.1m

19.4m

Drain

15.1m

12.7m

Croft House

The Cro

FREEMAN'S
LANE

West End

Tank

Tank

Sheet 144 and 145

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

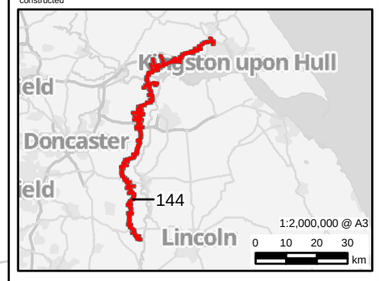
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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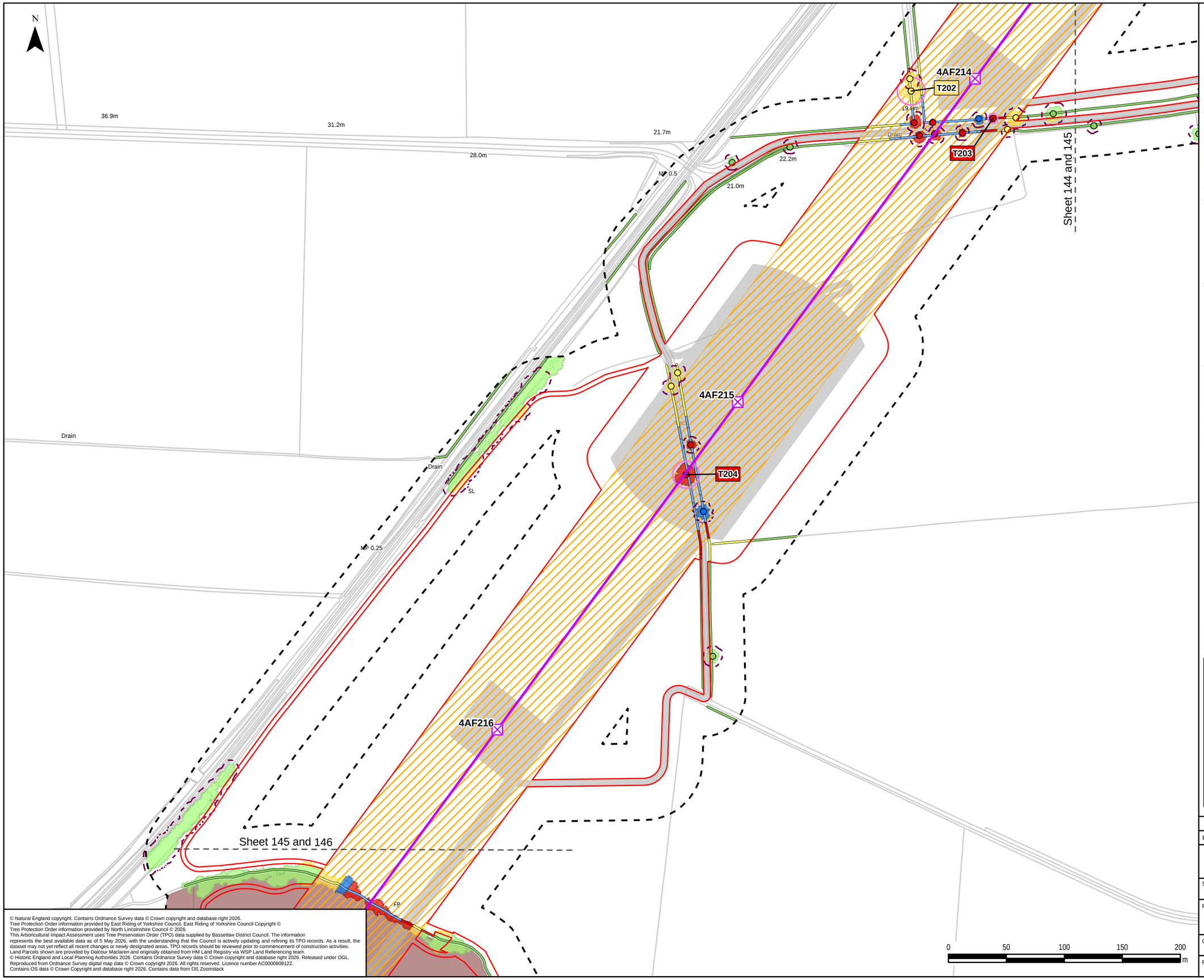
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

0 50 100 150 200 m

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N

Sheet 145 and 146

Sheet 146 and 147

Sheet 147 and 148

4AF217

4AF218

4AF219

FB

SL

CS

MP 0.25

Track

SCHRIMSHIRE'S ROAD (TRACK)

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected

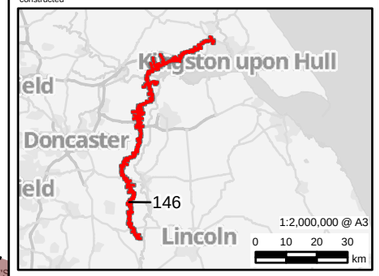
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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N

Sheet 146 and 147

Sheet 147 and 148

SL

SL

Track

SCHRIMSHIRE'S ROAD (TRACK)

MP 0.25

FB

Track

Path (um)

MP 0.5

SCHRIMSHIRE'S ROAD

26.8m

North Leverton Windmill

Windmill Cottage

Tk

23.8m

MILL LANE

27.0m

Track

Pp

Caddow Wood

Farm

T209

G88

FB

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Potentially Affected
- Not Affected

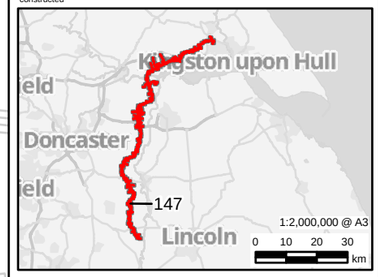
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Potentially Affected
- Not Affected

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Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

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N

Ash Holt

G85

4AF219

Drain

T205

T207

T206

Pond

Pond

W11

4AF220

T208

G86

G87

4AF221

T210

Sheet 147 and 148

Sheet 148 and 149

Issues

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category A / B Wood
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

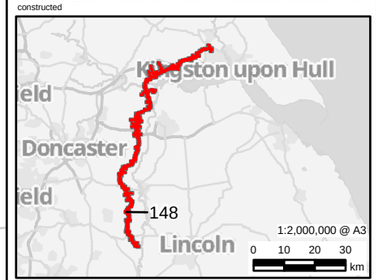
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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N

Sheet 148 and 149

T210

4AF222

4AF223

4AF224

T211

T212

G89

Tanks

Windmill View

Plant Centre

The Bungalow

49.4m

High View

Coromandel

Track

Chantilly

Drain

Pond

FB

Issues

HOLLOWGATE ROAD (TRACK)

42.7m

42.5m

37.1m

33.7m

Def

Guide

Post

Sheet 149 and 150

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Potentially Affected
- Not Affected

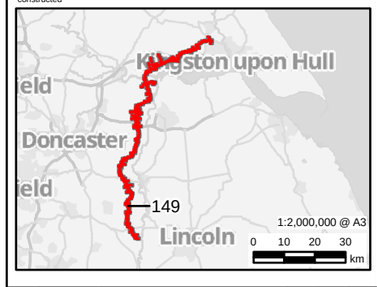
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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nationalgrid

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N

Sheet 149 and 150

G89

T212

North Lodge

FB

Weatherleys

The

4AF225

PHID47743275_038078654

COWSLAND ROAD (TRACK)

MILLFIELD ROAD (TRACK)

4AF226

Pond

Drain

Lee Beck

Sheet 150 and 151

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

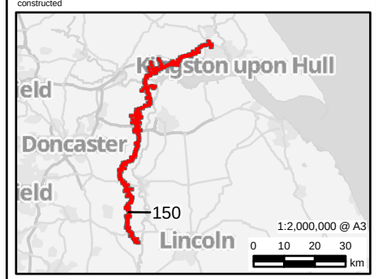
Canopy Area - Impact

- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Traditional Orchard

NOTE:
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N

Lee Beck

Sheet 150 and 151

WOOD LANE (TRACK)

Drain

4AF227

Def

CS

Def

Drain

G90

FB

Def

Drain

Drain

Path (um)

4AF228

G91

T213

T216

T214

T217

T215

34.2m

Sheet 151 and 152

NORTHFIELD LANE (TRACK)

G92

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Affected Managed

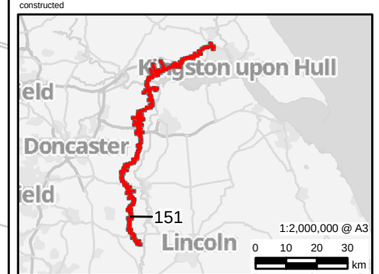
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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Scheme: NORTH HUMBER TO HIGH MARNHAM

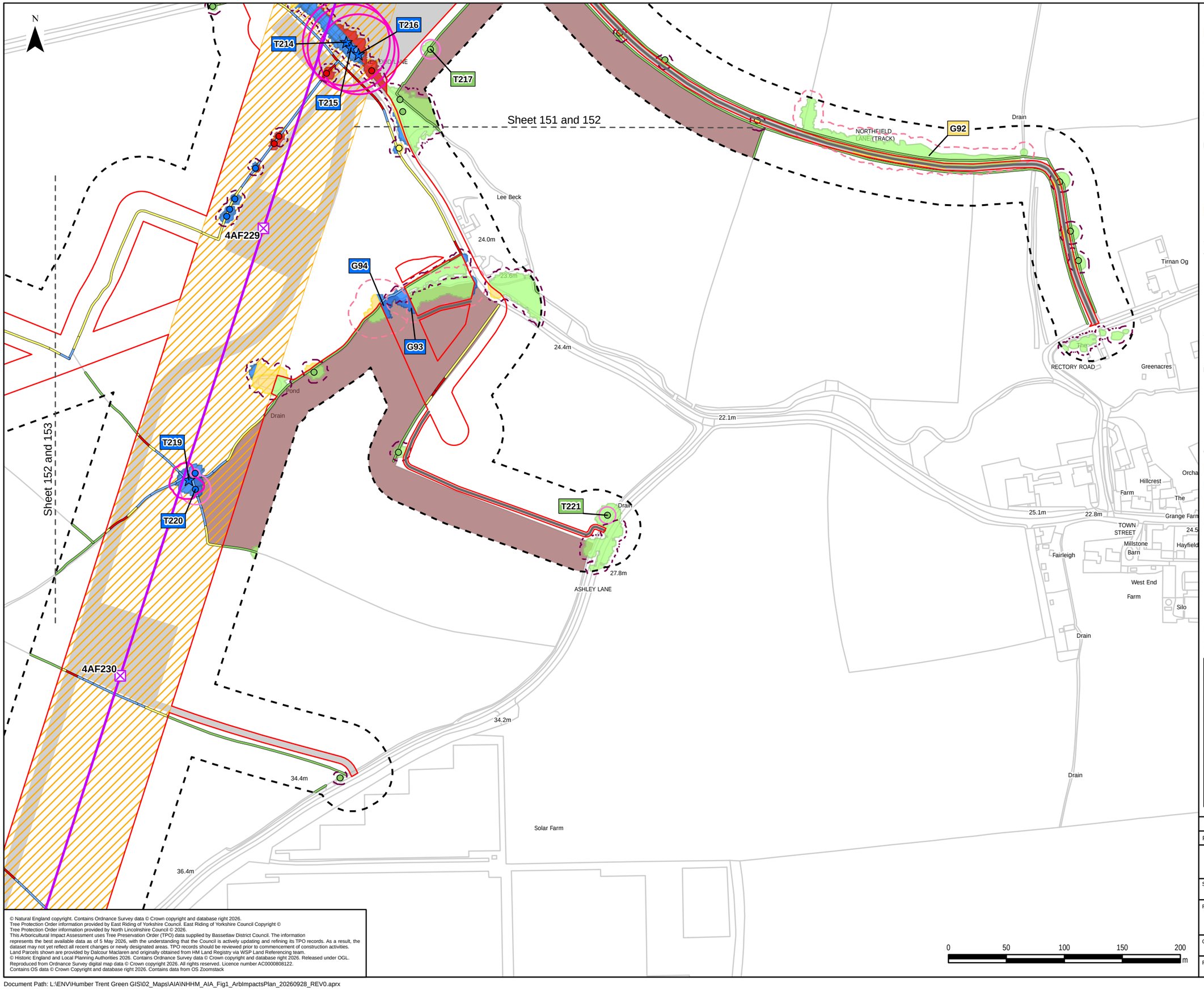
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Affected Managed

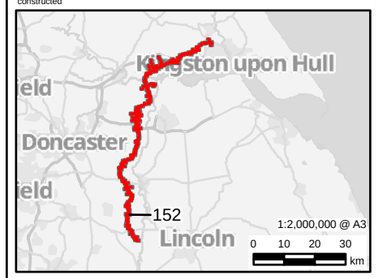
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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Treswell Wood (Ancient Woodland)

Path (um)

43.7m

Lay-by

40.0m

FOREWOOD LANE

34.2m

Track

Treswell Wood

Pond

B0C0092

Pond

Forwood Farm

Drain

Track

Sheet 152 and 153

Sheet 153 and 154

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

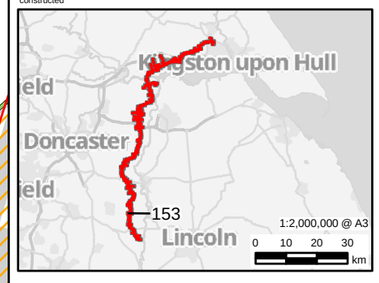
Canopy Area - Impact

- Not Affected

Discipline-Specific Constraint

- Tree Preservation Order (Indicative Location)
- Ancient Woodland

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N

Sheet 153 and 154

Treswell Wood (Ancient Woodland)

B0C0092

Drain

Stanhope Farm

4AF231

T222

T224

T225

T223

T226

T227

G95

4AF232

T228

Sheet 154 and 155

Track

El Sub Sta

34.4m

36.4m

31.3m

29.9m

29.7m

44.5m

44.7m

Pond

Northfield Farm

House

Wood

Def

CS

North Beck

HAZELWOOD

33.0m

ETFORD ROAD

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

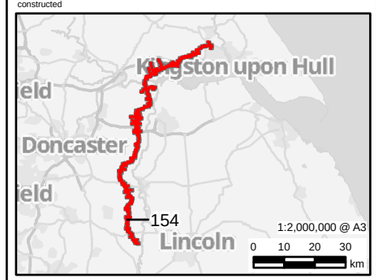
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Tree Preservation Order (Indicative Location)
- Ancient Woodland

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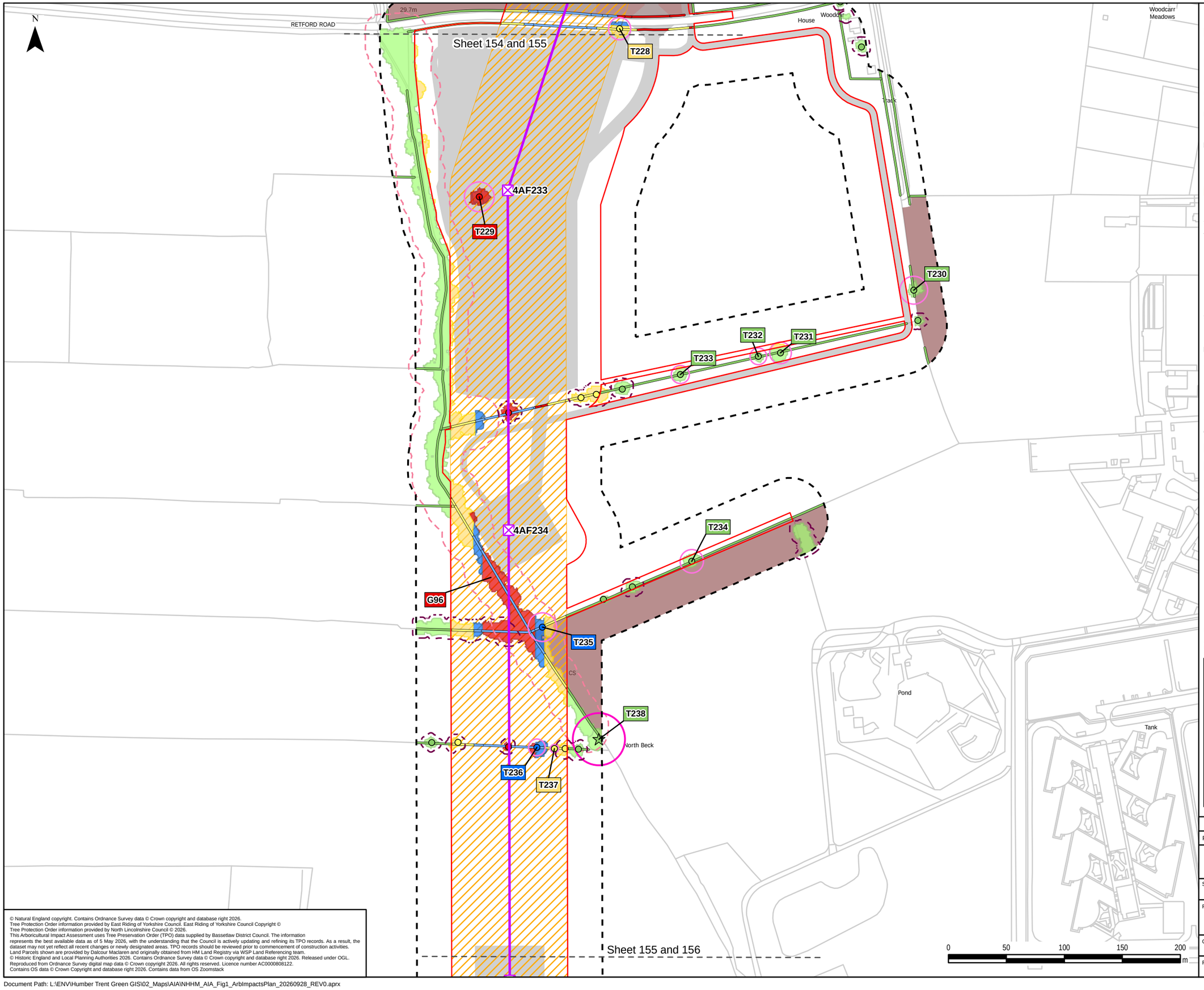
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Not Affected

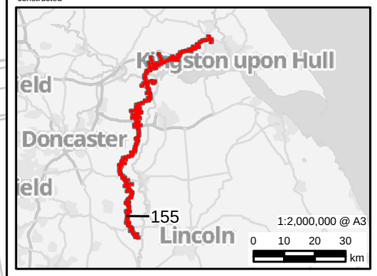
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



Rev	Date	Description	GIS	Chk	App
0	28/09/2026	ARBORICULTURAL IMPACT ASSESSMENT	EB	DF	MW

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	28/09/2026	DF	28/09/2026	MW	28/09/2026

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

Sheet 155 and 156

4AF235

4AF236

4AF237

Drain

Magpie Hall Farm

Hall Farm Cottage

Pond

Pond

Pond

Pond

Ditch

28.7m

30.4m

Issues

Drain

CD

23.6m

Sewage Works

Drain

North Beck

22.5m

Track

T239

Sheet 156 and 157

0 50 100 150 200 m

Hardings Farm

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

NOTE:
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N

4AF237

Sheet 156 and 157

T240

Hardings Farm

Well

Def

Def

Ward Bdy

4AF238

Drain

DELEGATE TRACK

4AF239

Sheet 157 and 158

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Potentially Affected

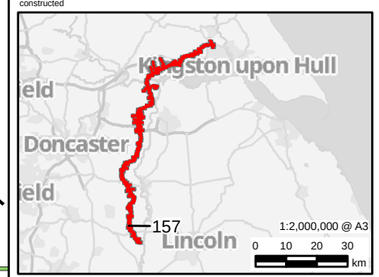
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Potentially Affected
- Not Affected

NOTE:
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N

Pond

Sheet 157 and 158

DOLEGATE TRACK

4AF239

Track

25.4m

Field Farm

29.2m

G97

RETFORD ROAD

32.5m

Mill House

34.0m

24.7m

Track

Ward Bdy

Sheet 158 and 159

4AF240

30.5m

0 50 100 150 200 m

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

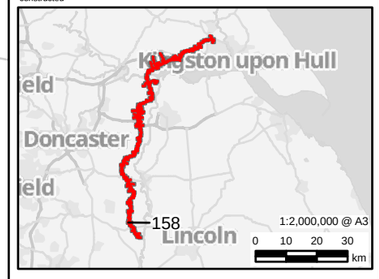
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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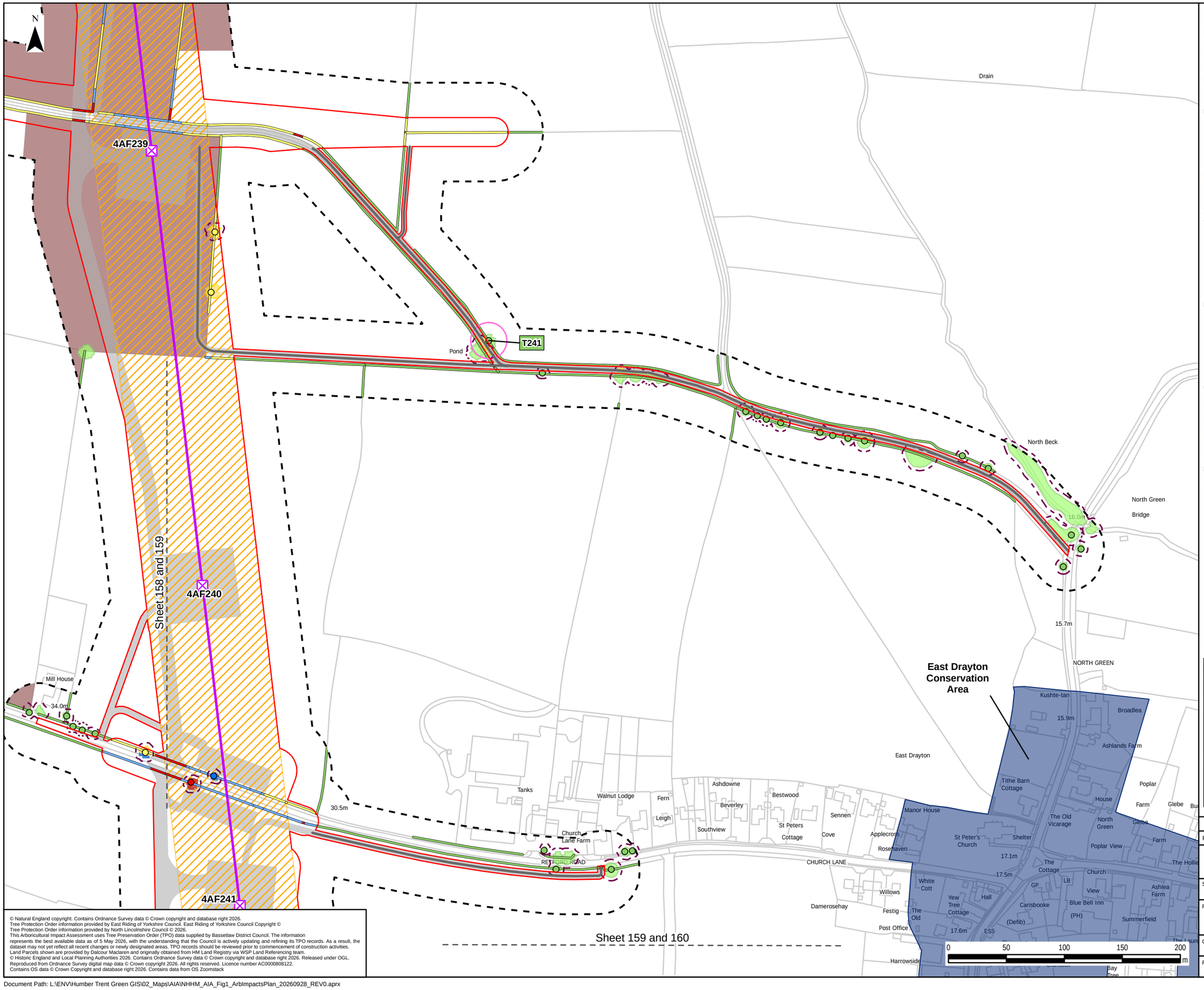
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - ARBORICULTURAL IMPACTS PLAN

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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

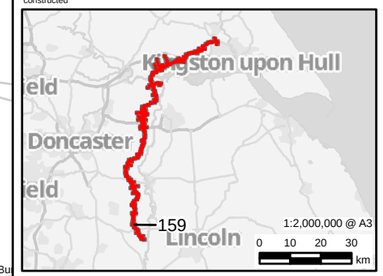
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Conservation Area

NOTE:
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N

Sheet 159 and 160

Sheet 160 and 161

East Drayton Conservation Area

B000481

4AF242

4AF243

4AF244

BACK LANE (TRACK)

Track

Track

Drain

Drain

23.0m

22.8m

20.7m

17.6m

22.6m

Festig

The Old

Cottage

(Defib)

Post Office

ESS

Chimneys

Harrowside

The Pippins

Crantock

The Ashes

The Old Harrow

Ktima

TOP STREET

Yew Tree Farm

Shandu

The

The

Paddocks

The Old Croft

Bungalow

Westholme

Stone Gate

Bramble

Lodge

Manor House

Farm

Stables

The Barn

The Core

Centre

Manor

Business

Park

Wind Turbine

KILTON ROAD

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

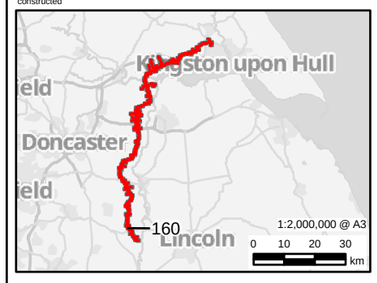
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Tree Preservation Order (Indicative Location)
- Conservation Area

NOTE:
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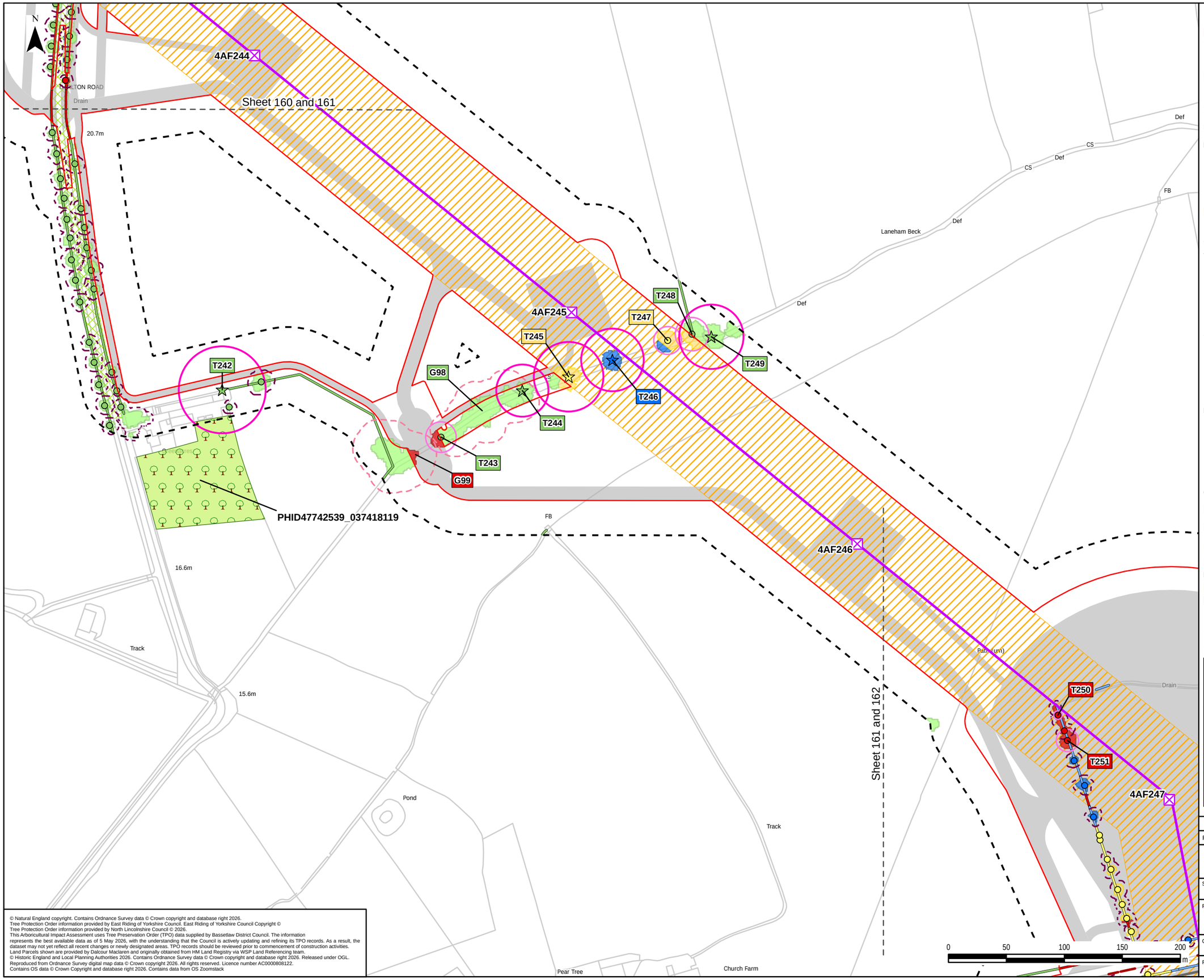
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Route Section
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

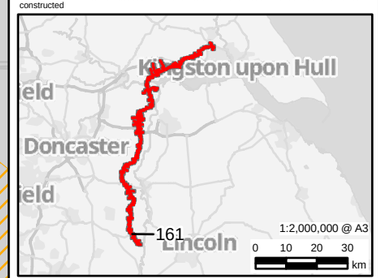
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Tree Preservation Order (Indicative Location)
- Traditional Orchard

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N

4AF246

4AF247

4AF248

T250

T251

G100

G101

G102

PHID47797574_037364240

Sheet 161 and 162

Sheet 162 and 163

Route Section E

Route Section F

Drain

Track

Church Farm

St Giles Church

Lych Gate

Kirkside

A57

Lay-by

Cattle Grid

Mast (telecommunication)

12.6m

Def

Tk H

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Route Section
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

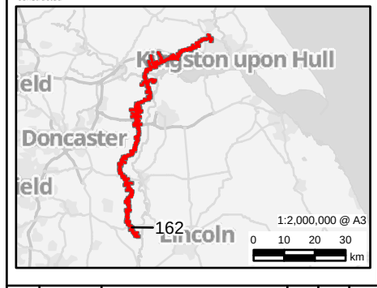
Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Discipline-Specific Constraint

- Traditional Orchard

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Sheet 162 and 163

Sheet 163 and 164

ROAD WOODCOATES

Grange Farm

Pond

Pond

Issues

20.8m

19.8m

South Grange

Drain

Track

Track

22.8m

FB

Track

23.9m

23.8m

Field Farm

20.5m

SM

America Farm

Track

Track

WOODCOATES ROAD

Drain

Pond

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

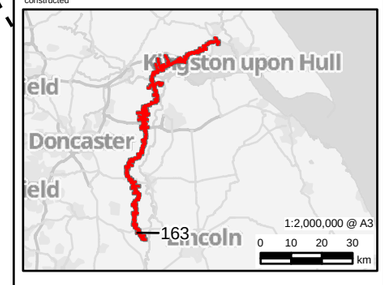
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Not Affected

NOTE:
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N

Sheet 162 and 163

Tk H

Track

4AF249

Farhill Farm

Drain

Track

Sheet 163 and 164

G103

Drain

4AF250

Pond

Sheet 164 and 165

0 50 100 150 200 m

Def

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Potentially Affected
- Not Affected

NOTE:
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N

Sheet 164 and 165

Sheet 165 and 166

4AF251

4AF252

4AF253

T252

G104

Def

Drain

FAR ROAD

Path (um)

Pond

Gibraltar Farm

10.9m

15.2m

10.1m

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category A / B Group
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Potentially Affected

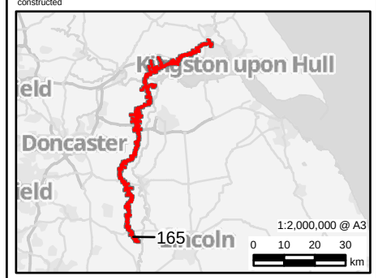
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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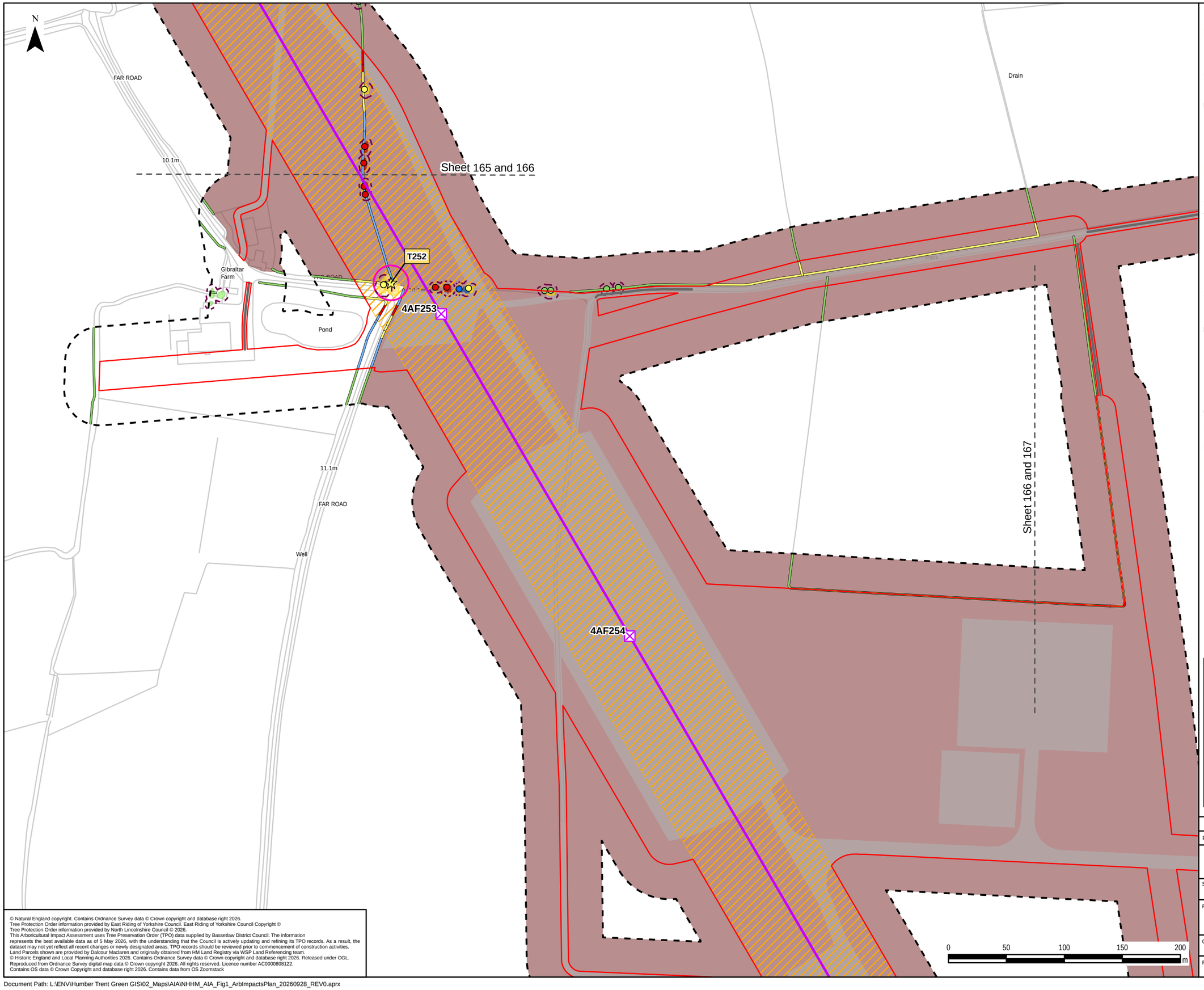
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Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Veteran Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Veteran Tree - Impact

- Potentially Affected

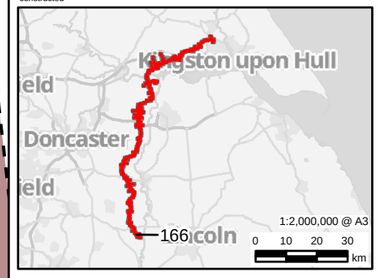
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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N

North Farm

Top Farm

Cattle Grid

Track

Drain

Drain

Drain

6.9m

Long Row Cottages

7.3m

LB

GP

9.3m

Track

Sheet 166 and 167

Drain

Pond

16.3m

Fledborough House Farm

T253

Fledborough House

Drain

ETL

18.9m

Sheet 167 and 168

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Other Temporary Construction and Operational Works (Linear)
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

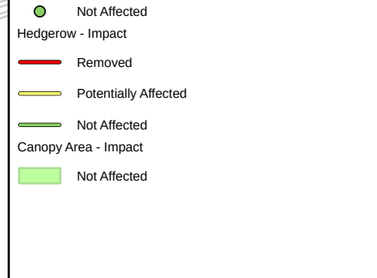
Hedgerow - Impact

- Removed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Not Affected

NOTE:
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N

Sheet 167 and 168

Sheet 168 and 169

4AF255

4AF256

4AF257

T254 T255 T256 T257 T258 T259 T260 T261 T262 T263 T264 T266 T267 T268 T269 T270 T271 T272 T273

CRABTREE LANE (TRACK)

Drain

Drain

Track

Dismantled Railway

Dismantled Railway

MP 0.75

Station

Station House

Pond

Path

Path

Def

Post

High Marnham

Issues

Junction

SP

17.4m

18.9m

19.3m

18.7m

12.8m

21.2m

19.6m

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Other Temporary Construction and Operational Works (Linear)
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

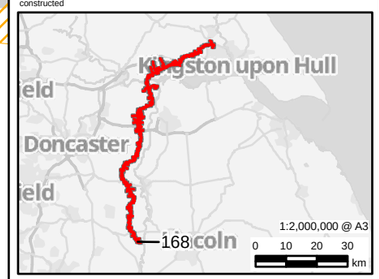
Hedgerow - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

Canopy Area - Impact

- Removed
- Affected Managed
- Potentially Affected
- Not Affected

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N

Path
Pond
Path
Def
Car Park
8.7m
8.4m
8.4m
12.8m
Sheet 168 and 169
4AF257
4AF258
4AF260
4AF259
ETL
ETL
ETL
ETL
ETL
ETL
Electricity Distribution Site
Tank
Tank
T274
Track
Track
19.6m

0 50 100 150 200 m

Legend

- Order Limits
- Arboriculture Study Area (30 m)
- Indicative Root Protection Area - Category A / B Tree
- Indicative Root Protection Area - Category C Canopy
- No Access / Limited Access for Arboriculture

Project Design Details

- Indicative New Gantry
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Limits of Deviation
- Temporary Construction and Operational Works (Area)

Vegetation Impact

Tree - Impact

- Not Affected

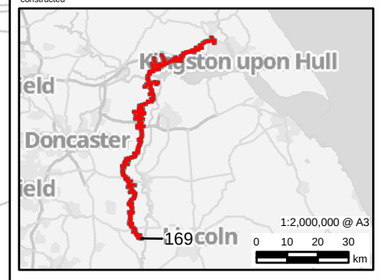
Hedgerow - Impact

- Not Affected

Canopy Area - Impact

- Not Affected

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The Birkhill Wood and High Marnham Substations, and associated Gantry structures do not form part of this Project. They have been shown for reference only, and are included in the Order Limits for access and to enable the overhead line connections to be constructed



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Appendix E Veteran Tree Assessment Methodology

nationalgrid

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Annex A Veteran Trees and Veteran Groups within the Study Area A-1

1. Introduction

1.1 Introduction

1.1.1 This appendix to **Application Document 7.14 Arboricultural Impact Assessment** has been produced to outline the principal measures that are required to avoid, minimise, and compensate for the potential ecological effects of the Project on veteran trees, both during and post construction, as per the mitigation hierarchy.

1.1.2 The Project design is a result of an iterative design process that has taken into account environmental considerations from inception of the Project. Knowledge gained through the Environmental Impact Assessment (EIA) process, following baseline surveys and assessment of impacts, along with consultation with interested parties, have influenced the Project design. Where practicable key environmental constraints have been avoided and/or impacts reduced. These measures are considered embedded mitigation as they are intrinsic to and built into the Project design. Embedded mitigation measures are set out in **Application Document 7.3 Register of Environmental Actions and Commitments**.

1.1.3 The Biodiversity Gain Requirements (Irreplaceable Habitat) Regulations 2024 (HM Government, 2024) explicitly classify ancient and veteran trees as irreplaceable habitats in the UK under powers from the Environment Act 2021 (HM Government, 2021) and the Town and Country Planning Act 1990 (HM Government, 1990). Consequently, bespoke mitigation (which comprises measures over and above any embedded and control and management mitigation measures) has been developed which considers each veteran tree or group of veteran trees (hereafter referred to as a 'veteran group') independently. Additional mitigation includes landscape proposals within landscape planting mitigation areas, and where habitat creation and enhancement measures are proposed.

1.1.4 This Veteran Tree Assessment Methodology works within the parameters of 'veteran tree' as defined by the National Planning Policy Framework (NPPF) (Ministry of Housing, Communities & Local Government, 2026):

'A tree which, because of its age, size and condition, is of exceptional biodiversity, cultural or heritage value. All ancient trees are veteran trees. Not all veteran trees are old enough to be ancient, but are old relative to other trees of the same species. Very few trees of any species reach the ancient life-stage.'

1.1.5 As described above, a veteran tree can contain a broad range of veteran features which are of high ecological value, in addition to the trees intrinsic arboricultural and historical importance and as such, a blanket compensation approach may not be effective in protecting these features during construction and operation. This methodology sets out a bespoke mitigation/compensation approach which considers each veteran tree independently. This methodology also describes the embedded mitigation where environmental constraints to veteran trees have been avoided and/or impacts reduced through the design of the Project. The Main Works Contractor(s) would be responsible for implementing the measures outlined within this methodology and associated management plans.

1.1.6 Historic England recognises that trees can survive for hundreds of years and can be considered as 'living monuments', important in their own right and within a wider a landscape setting, for example, historic parkland (Historic England, n.d.)

1.1.7 The arboricultural study area for the Project (hereafter referred to as the study area), has been informed by the extent of Order Limits plus a 30 m buffer. While BS5837:2012 (British Standards Institution, 2012) caps the Root Protection Area (RPA) radius at 15 m, a study area of up to 30 m has been applied to capture a greater radius for veteran tree RPAs.

1.1.8 Veteran trees within the study area have been identified using a combination of data sources, including the Woodland Trust's Ancient Tree Inventory (ATI) database (Woodland Trust, n.d.), as well as OS Terrain® 50 mid-resolution and LIDAR Composite 2017-50 cm (DTM), hereafter referred to as orthophotos, obtained from an aerial survey of the Order Limits and immediate surrounding area conducted by the Project in 2023, and open-source aerial imagery. These data were used for the spatial positioning of veteran tree features. Trees within the study area were also subject to field survey as set out in **Application Document 7.14 Arboricultural Impact Assessment**.

1.1.9 Mitigation measures are included within **Application Document 7.3 Register of Environmental Actions and Commitments** which should also be read in conjunction with this appendix. The Veteran Tree Assessment Methodology is based on the Project design set out in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** and illustrated in **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**, **Application Document 6.4.F3 Environmental Statement Figure 4.3 Temporary Construction Works**, and **Application Document 6.4.F4 Environmental Statement Figure 4.4 Third Party Works**. It is recognised that there may be minor refinements through the examination process as part of the application for development consent.

1.2 Purpose of the Assessment Methodology

1.2.1 The Veteran Tree Assessment Methodology has been produced to detail the environmental measures that would be implemented to avoid, minimise, remediate and compensate the veteran trees likely to be impacted during construction and operation of the Project.

1.2.2 The objectives of this methodology are as follows:

- Demonstrate how 'National Grid Electricity Transmission plc (National Grid) has sought to avoid effects on veteran trees as identified in **Application Document 5.9 Design Development Report**;
- Set out the specific Project construction impacts on veteran trees and their Root Protection Areas (RPAs);
- Prescribe suitable mitigation measures where impacts to veteran trees are unavoidable;
- Provide details of bespoke veteran tree mitigation and compensation; and
- Ensure that legislation and best practice are adhered to by the Project.

1.3 Structure of the Methodology

1.3.1 The structure of this document is set out in Table 1.1.

Table 1.1 – Structure and outline of the Veteran Tree Assessment Methodology

Section/annex	Content
Section 1: Introduction	This section sets out the purpose of the Veteran Tree Assessment Methodology and how it is structured.
Section 2: Baseline Surveys	This section details the desk based and field surveys for veteran trees.
Section 3: Veteran Trees	This section covers the impacts to veteran trees as a consequence of the Project, and the mitigation hierarchy to be implemented for veteran trees. It also provides a range of compensation/remediation options to be agreed upon and implemented on a tree-by-tree basis.
Section 4: Conclusion	This section summarises the veteran tree survey results and the mitigation hierarchy for veteran trees.
Annex A: Veteran Trees and Veteran Groups[1] within the Study Area	Details all veteran trees and veteran tree groups surveyed within the study area

1.4 Reference Abbreviations

1.4.1 The following reference abbreviations are used throughout this document:

- T – Tree; and
- G – Group.

[1] Within this appendix and the wider Arboricultural Impact Assessment, groups of veteran trees are referred to as a 'veteran group'.

2. Baseline Surveys

2.1 Desk-based Study

2.1.1 A desk-based study was undertaken to determine the location of veteran trees recorded within the study area using the Woodland Trust's was ATI database (Woodland Trust, n.d.). The desk-based study was conducted in May 2026, and no veteran trees were identified within the study area. As the ATI data is collected on a voluntary basis, it is not comprehensive or necessarily up to date and should be used to support a baseline understanding only, alongside the need for field-based assessments.

2.2 Field Survey

2.2.1 The arboricultural baseline survey was undertaken between July 2024 and February 2026, with results presented in Appendix C Tree Survey Schedule to **Application Document 7.14 Arboricultural Impact Assessment**. Trees that were surveyed as veterans were further assessed using the Recognition of Ancient, Veteran and Notable Trees (RAVEN2) survey methodology (Forbes Laird Arboricultural Consultancy, 2023). The study area included the Order Limits plus a 30 m buffer[2], as whist BS5837:2012 (British Standards Institution, 2012) caps the RPA radius at 15 m, the study area of up to 30 m was applied to capture a greater radius for veteran tree RPAs.

2.2.2 As further explained in section 1.2 of **Application Document 7.14 Arboricultural Impact Assessment** (under the 'Limitations and Assumptions' heading), design changes which occurred after completion of the arboricultural baseline survey introduced new land into the Order Limits. Survey data are not available for these areas however, due to the proposed uses of these areas/works to be undertaken no impacts to trees in these areas due to the Project will occur.

2.2.3 A total of 37 veteran trees and one veteran tree group were identified through the baseline survey within the study area. Veteran tree survey results are provided in Annex A.

2.2.4 There is a commitment in **Application Document 7.3 Register of Environmental Actions and Commitments** which states '*all known veteran trees within and which have canopy overhanging the Order Limits will be retained with the exception of T4 Common Oak (Quercus robur) which could not be retained if the flexibility afforded by the Limits of Deviation was to be used*'. Bespoke mitigation for the loss of this tree is discussed in further detail in section 3. Veteran tree T4 is within Route Section A, and its location in relation to the Order Limits and the Limits of Deviation (LoD) is shown on **Figure 1 Arboricultural Impacts Plan** in Appendix D to **Application Document 7.14 Arboricultural Impact Assessment**.

[2] Due to the iterative nature of the design process, surveys were undertaken in line with the Order Limits as defined at each date of survey, resulting in survey data being collected for areas which are now beyond the 30 m study area buffer. These data are not considered in the assessment as the arboricultural study area used within this report reflects the Order Limits at time of submission.

2.2.5 Based upon the Project design set out in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** (as set out in paragraph 1.1.9), 11 veteran trees and one veteran group have been identified for management/pruning in order to construct the Project, including to provide the necessary electrical clearances required to construct and maintain a safe and reliable power grid. A further ten veteran trees may require management should the flexibility afforded by the LoD be used in their locations during detailed design[3]. Specific commitments in relation to these trees/tree group are set out in **Application Document 7.3 Register of Environmental Actions and Commitments**. Details of the veteran tree management required to facilitate the Project is set out in Table 3.3.

[3] This includes T44 and T46 as further discussed in paragraph 3.3.6

3. Veteran Trees

3.1 Introduction to Veteran Trees

3.1.1 This section is a preliminary assessment and contains measures which will be implemented based on the Project design set out in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** and shown in **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**, **Application Document 6.4.F3 Environmental Statement Figure 4.3 Temporary Construction Works**, and **Application Document 6.4.F4 Environmental Statement Figure 4.4 Third Party Works**). **Application Document 7.8 Outline Landscape and Ecology Management Plan** sets out the framework for the mitigation to be delivered in relation to veteran trees. Prior to construction a detailed Landscape and Ecology Management Plan will be developed based on detailed design and construction methodology information to be provided by the Main Works Contractor(s). The detailed Landscape and Ecology Management Plan will be substantially in accordance with **Application Document 7.8 Outline Landscape and Ecology Management Plan**.

3.1.2 This section focuses on the impacts to veteran trees surveyed within the study area, and methods of compensation and mitigation. The following items are addressed in this section:

- The hierarchy to avoid, minimise, remediate, and compensate;
- Trees identified for removal/management;
- Compensation for veteran trees being removed/managed;
- Management options i.e. soil decompaction, exclusion fencing/zones, deadwood management, and veteranisation[4] of other trees; and
- Mitigation methods, remediation works, and monitoring.

3.1.3 The intention of this section of the Veteran Tree Assessment Methodology is to outline actionable measures that are achievable under voluntary agreement and are measurable. Therefore, the options to deliver as part of a compensation package are considered based on the practicalities of implementing such measures in collaboration with the landowners and local planning authorities.

3.1.4 Based on the Project design/alignment of the proposed overhead line set out in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** and shown in **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**, **Application Document 6.4.F3 Environmental Statement Figure 4.3 Temporary Construction Works**, and **Application Document 6.4.F4 Environmental Statement Figure 4.4 Third Party Works**, National Grid will, during detailed design, ensure tree removal is reduced as far as practicable (as per the relevant commitment within **Application Document 7.3 Register of Environmental Actions and Commitments**).

[4] Veteranisation is the practice of artificially damaging or wounding younger, healthy trees to fast-track the creation of ancient/veteran tree features such as hollows, rot holes, and torn branches.

3.2 Impacts to Veteran Trees

3.2.1 Table 3.1 below sets out activities with the potential to impact veteran trees within the study area.

Table 3.1 – Definitions of Project activities

Project activity	Definition
Excavations	Construction activities that break the soil surface.
Proposed Overhead Lines	Construction activities associated with the stringing and final strung locations of conductors.
Temporary Construction	Any works that would not remain post construction, for example all temporary construction access tracks.

3.3 Mitigation Hierarchy

3.3.1 Table 3.2 outlines the order of hierarchy priorities for veteran trees. Each veteran tree within the study area has been assigned a hierarchy category. All veteran trees within the study area and the associated hierarchy outcome are listed out in Annex A.

3.3.2 Remedial works under the 'Remediate' heading should be used in all instances where a veteran tree is affected by the Project but are subject to agreements between National Grid and the relevant landowners.

Table 3.2 – Mitigation hierarchy for veteran trees

Order of hierarchy	Potential measures
Avoid	• Design refined to avoid buffer zones of veteran trees. • Protective measures during construction (as set out in Application **Document 7.3 Register of Environmental Actions and Commitments**) to ensure health and vitality of trees is maintained, preventing incursion into buffer zones, and addressing the rooting and above-ground environments of trees, together with ongoing monitoring and maintenance for the duration of construction. Protective measures may include construction methodologies, micro-siting, and/or use of fencing to exclude construction traffic from buffer zones.
Minimise	• Same protective measures as above, as well as ground, stem and limb protection. Assumes that avoidance is not possible and protective measures will not fully mitigate impacts. • Crown management intervention including coppicing and heavy crown reduction is identified in order to retain veteran trees during construction and during operation of the proposed overhead line. • Targeted facilitation pruning, so as to minimise uncontrolled damage to above ground components of trees. Other pruning techniques adopted for

Order of hierarchy	Potential measures
	veteran trees (i.e. coronet cuts[5], retrenchment pruning[6], fracture pruning[7]) to be advised by Project Arboriculturist/Arboricultural Clerk of Works (ArbCoW). • Where excavation within buffer zones occurs, root pruning/severance may be specified to minimise uncontrolled damage caused unintentionally during the process (to be specified by the Project Arboriculturist/ArbCoW).
Remediate	• Will primarily focus on post construction remediation works (i.e. soil improvements, competition removal, halo pruning[8]) to be specified by Project Arboriculturist/ArbCoW. • Remedial pruning works may be required following unforeseen mechanical damage during construction. Pruning to be specified by the Project Arboriculturist/ArbCoW.
Compensate	• Where avoid, minimise or remediate are not suitable options then suitable compensation is required. Different compensation options are available and should be specified on a case-by-case basis by the Project Arboriculturist/ArbCoW. These may include but are not limited to the below and may be used in conjunction with each other: – Phased tree pruning, 'retrenchment pruning', appropriate for tree species and subject to individual tree assessments. – Veteranisation of nearby mature trees to maintain habitat continuity. – Genetic Conservation: To preserve the genetic heritage of the veteran trees identified for removal, seeds could be collected before any clearing begins (generally between September and November). This seed collection would focus on gathering a diverse range of native tree and understory species, ensuring that the genetic material from the original tree can be used for propagation in the new planting areas, thereby maintaining a direct ecological link to the lost habitat. Sapling relocation where appropriate. – Compensation Planting: Veteran trees are acknowledged as being irreplaceable, therefore full compensation is unachievable. Compensation Planting will take place within the Order Limits as set out in **Application Document 7.3 Register of Environmental Actions and Commitments**. Compensation planting may include a combination

[5] A coronet cut is a specialised chainsaw technique used to shape a jagged, uneven stub on a tree branch or trunk, mimicking natural storm damage or branch failure.

[6] Retrenchment pruning is a phased crown reduction technique used on aging or veteran trees to extend a tree's lifespan. It mimics the natural aging process by shortening heavy, over-extended branches thereby replicating the natural shed of upper branch tips and shift to downward growth.

[7] Fracture pruning is a technique where a partial cut is made into a limb or branch which is then allowed to shear under its own weight, or force is applied, to produce jagged, torn, or splintered branch ends, mimicking natural storm damage or limb failure.

[8] Halo pruning is a specialised arboricultural technique used for veteran or ancient trees. It involves selectively pruning, reducing, or clearing competing surrounding trees to create a 'halo' of open space and light around the crown of the target tree, This allows direct sunlight to reach the lower and inner canopy of the target tree, and lowers competition for water and nutrients.

Order of hierarchy	Potential measures
	of new planting, sapling relocation, establishment of a seed bank using local provenance material. – Retention of felled timber as near to tree as possible, considering if attaching to another tree as habitat is appropriate. – Commitments to maintain and monitor compensation planting areas for a minimum of 30 years as set out in **Application Document 7.8 Outline Landscape and Ecology Management Plan**.

Avoid

3.3.3 The Project has sought, wherever reasonably practicable, to avoid impacts on veteran trees through an iterative design process informed by arboricultural survey findings and a series of design review and change requests.

3.3.4 This has been achieved through a range of design modifications, including:

- The repositioning of infrastructure elements;
- Reductions in the extent of pylon stringing areas; and,
- Increases in pylon heights to provide greater clearance and reduce crown management requirements.

Veteran Trees to be Managed or Removed

3.3.5 Based on the Project design set out in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** and illustrated in **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**, **Application Document 6.4.F3 Environmental Statement Figure 4.3 Temporary Construction Works**, and **Application Document 6.4.F4 Environmental Statement Figure 4.4 Third Party Works**, 11 veteran trees and one veteran group have been identified for management/pruning in order to construct the Project, including to provide the necessary electrical clearances required to construct and maintain a safe and reliable power grid. A further ten veteran trees may require management should the flexibility afforded by the LoD be used in their locations during detailed design[3]. Specific commitments in relation to these trees/tree group are set out in **Application Document 7.3 Register of Environmental Actions and Commitments**. Pruning specifications are to be confirmed and agreed with a suitably qualified arboriculturist, with VETCert qualifications[9] and undertaken to best industry standards i.e. BS 3998:2010 (British Standards Institution, 2010). The veteran trees identified for management/pruning are listed in Table 3.3.

3.3.6 As stated in section 1.2 of **Application Document 7.14 Arboricultural Impact Assessment** (under the 'Limitations and Assumptions' heading), the canopies of two veteran trees (T44 and T46, both white willows – *Salix alba*) are currently managed by the relevant local authority due to their proximity to the highway (Ings Lane, northwest of pylon 4AF47). Depending on their current management cycle and the

[9] VETcert is a pan-European certification scheme, co-ordinated locally (in the UK) by the Arboricultural Association, that sets professional standards for the management and care of ancient and veteran trees.

Project's requirements, there is a possibility that additional/interim canopy management may be required to be undertaken by the Project to avoid accidental damage by traffic. These trees are shown as potentially affected on the Arboricultural Impact Plan (in Appendix D to **Application Document 7.14 Arboricultural Impact Assessment**), although the requirement for management of these trees would not be dictated due to use of LoD, for ease they are included within the count of ten trees which may require management should the flexibility afforded by the LoD be used. There is a commitment within **Application Document 7.3 Register of Environmental Actions and Commitments** that, should these works be undertaken by the Project, they will be agreed in advance with the ArbCoW and would be akin to the degree of management currently undertaken. Hence, the Project would not result in impacts beyond those already routinely experienced by these trees, this is reflected in Table 3.3.

3.3.7 Additionally, no veteran trees require removal to facilitate the Project based upon the Project design set out in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** and shown in **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**, **Application Document 6.4.F3 Environmental Statement Figure 4.3 Temporary Construction Works**, and **Application Document 6.4.F4 Environmental Statement Figure 4.4 Third Party Works**. However, in the event flexibility of the LoD for the proposed overhead line are used to the south in its location, T4, may require removal (see paragraph 2.2.4).

Table 3.3 – Veteran trees requiring management or removal

Feature ID	Species	Buffer zone (m)	Potential initial intervention requirements
T4	Common oak (*Quercus robur*)	21.8 m	None unless the flexibility afforded by the LoD is used to the south in its location. If so, the tree is to be removed.
T12	Ash (*Fraxinus excelsior*)	18.0 m	Canopy reduction of up to 6 m in targeted areas to a suitable growing union to achieve required canopy clearance from the proposed overhead line. Any thinning or branch removal within the remaining canopy would be specifically agreed with the ArbCoW in advance of any works being undertaken.
T13	Ash (*Fraxinus excelsior*)	15.0 m	Canopy reduction of up to 6 m in targeted areas to a suitable growing union to achieve required canopy clearance from the proposed overhead line. Any thinning or branch removal within the remaining canopy would be specifically agreed with the ArbCoW in advance of any works being undertaken.
T36	White willow (*Salix alba*)	18.8 m	Pollard to a height of 2 m for clearance for the proposed overhead line and scaffolding.
T44	White willow *(Salix alba)*	24.0 m	Currently managed by the local authority due to their proximity to the highway. Depending on their current management cycle and the Project's requirements, additional canopy management may be required to be undertaken by the Project to avoid accidental damage by traffic. Should this be required all works will be agreed in advance with the ArbCoW and would be akin to the degree of management currently undertaken.
T46	White willow *(Salix alba)*	25.5 m	Currently managed by the local authority due to their proximity to the highway. Depending on their current management cycle and the Project's requirements, additional canopy management may be required to be undertaken by the Project to avoid accidental damage by traffic. Should this be required all works will be agreed in advance with the ArbCoW and would be akin to the degree of management currently undertaken.
T49	Crack willow (*Salix fragilis*)	25.5 m	Targeted canopy clearance pruning on northwestern side of canopy above Norfolk Bank Lane. Temporary highway widening intersects with the RPA. Options for no-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. The Project recognises that the highway widening will result in disturbance within the RPA of T49. Following construction, remediation measures may include, but are not limited to, reinstatement

Feature ID	Species	Buffer zone (m)	Potential initial intervention requirements
			of original soils, decompaction, soil aeration, and addition of soil amelioration products, for example seaweed extracts and mulching.
T67	Crack willow (*Salix fragilis*)	22.5 m	Targeted canopy clearance pruning on western side of canopy above Tongue Lane. Temporary highway widening intersects with the RPA. Options for no-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. The Project recognises that the highway widening will result in disturbance within the RPA of T67. Following construction, remediation measures may include, but are not limited to, reinstatement of original soils, decompaction, soil aeration, and addition of soil amelioration products, for example seaweed extracts and mulching.
T77	Common oak (*Quercus robur*)	16.5 m	None, unless the flexibility afforded by the LoD is used, if so, height reduction of approximately 3m from growing tips to suitable growing union, rebalance canopy by removing approximately 3 m of the lateral spread of the northern canopy to suitable growing unions to create a rounded, more balanced canopy.
T83	Common oak (*Quercus robur*)	13.1 m	None, unless the flexibility afforded by the LoD is used for the temporary construction access, if so, RPA protection and potentially targeted crown pruning may be required. All works to be specifically agreed with the ArbCoW in advance of any works being undertaken. Options for No-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. Following construction, remediation measures may include but are not limited to reinstatement of original soils, decompaction, soil aeration, and addition of soil amelioration products for example seaweed extracts and mulching.
T90	Crack willow (*Salix fragilis*)	19.5 m	None, unless the flexibility afforded by the LoD is used, if so coppice stems to a height of 2 m from ground level.
T130	White willow (*Salix alba*)	24.3 m	None, unless the flexibility afforded by the LoD is used, if so, height reduction of up to 3 m from the growing tips to a suitable union. For RPA protection, options for No-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. Following construction, remediation measures may include but are not limited to reinstatement of original soils, decompaction, soil aeration, and addition of soil amelioration products for example seaweed extracts and mulching.

Feature ID	Species	Buffer zone (m)	Potential initial intervention requirements
T144	White willow (*Salix alba*)	12.0 m	None, unless the flexibility afforded by the LoD is used, if so, prune limbs on the eastern side of the canopy to achieve a minimum clearance of 3 m. All cuts to be made to suitable growing unions. If pollarding is required, pollard to to existing pollard points (approximately 3 m).
T157	White willow (*Salix alba*)	24.6 m	Coppice stems to a height of 2 m from ground level.
T214	Crack willow (*Salix fragilis*)	37.5 m	Pollard to a height of 2 m from ground level for clearance for the proposed overhead line and scaffolding. Bellmouth 111 intersects with the RPA. Options for no-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. The Project recognises that the proposed bellmouth 111 will result in disturbance within the RPA of T214. Following construction, remediation measures may include but are not limited to reinstatement of original soils, decompaction, soil aeration, and addition of soil amelioration products for example seaweed extracts and mulching.
T215	Crack willow (*Salix fragilis*)	37.5 m	Pollard to a height of 2 m from ground level for clearance for the proposed overhead line and scaffolding. Bellmouth 111 intersects with the RPA. No-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. The Project recognises that the proposed bellmouth 111 will result in disturbance within the RPA of T215. Following construction, remediation measures may include but are not limited to reinstatement of original soils, decompaction, soil aeration, and addition of soil amelioration products for example seaweed extracts and mulching.
T216	White willow (*Salix alba*)	34.5 m	Pollard to a height of 2 m from ground level for clearance for scaffolding. Bellmouth 111 intersects with the RPA. No-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. The Project recognises that the proposed bellmouth 111 will result in disturbance within the RPA of T216. Following construction, remediation measures may include but are not limited to reinstatement of original soils, decompaction, soil aeration, and addition of soil amelioration products for example seaweed extracts and mulching.

Feature ID	Species	Buffer zone (m)	Potential initial intervention requirements
T219	White willow (*Salix alba*)	13.9 m	Pollard to a height of 10 m from ground level.
T240	White willow (*Salix alba*)	19.5 m	None unless the flexibility afforded by the LoD is used, if so, pollard to a height of 2 m from ground level. Stringing position to be micro-sited to avoid impacts.
T245	White willow (*Salix alba*)	30.0 m	None, unless the flexibility afforded by the LoD is used. Pollard to a height of 11 m from ground level if the flexibility afforded by the LoD is used for the proposed overhead lines. If the flexibility afforded by the LoD brings pylon working area into the RPA, RPA protection, options for No-dig construction methods, such as cellular confinement systems to be explored during detailed design and implemented where practicable. Following construction, remediation measures may include, but are not limited to, reinstatement of original soils, decompaction, soil aeration, and addition of soil amelioration products, such as, seaweed extracts and mulching.
T246	White willow (*Salix alba*)	27.0 m	Pollard to a height of 2 m from ground level.
T252	White willow (*Salix alba*)	15.0 m	None, unless the flexibility afforded by the LoD is used, if so, pollard to a height of 3 m from ground level (or as required to achieve suitable clearance).
G41	Crack willow (*Salix fragilis*)	19.2 m	Targeted canopy clearance pruning on western side of canopy. Coppice stems to a height of 2 m from ground level.

Remediate

3.3.8 Once construction has been completed in a specific area surrounding the RPA of a retained veteran tree, remediation works should be agreed with the Project ArbCoW. If required, remediation works should be undertaken with ArbCoW supervision to ensure that rooting conditions are favourable for the tree's longevity.

3.3.9 Remediation works may include the need for the following operations:

- Mulching the trees rooting area if land management allows, as a minimum within the canopy drip line;
- Soil decompaction, using an airspade or similar;
- Soil improvement additives, such as application of biochar;
- Halo pruning of competing vegetation;
- Remediation pruning, such as phased retrenchment pruning;
- Establishment of a permanent exclusion zone through the installation of fencing or dead hedge to prevent compaction or disturbance;
- Land management changes, such as the creation of permanent agricultural headlands;
- Companion/shelter planting with suitable species, potentially trees raised from local veteran tree provenance;
- Habitat creation using wildlife boxes, erection of deadwood and other measures; and
- Where practicable, removed stem and branch timber should be retained on site in habitat piles.

3.3.10 Due to the ecological significance of veteran trees, to assess and ensure the effectiveness of remediation works to veteran trees, a monitoring programme will be agreed with Natural England and relevant local planning authorities and adopted by National Grid. Due to the ecological significance of veteran trees the monitoring programme will cover a 30-year period as secured through a specific commitment in **Application Document 7.3 Register of Environmental Actions and Commitments**, which aligns with Table 6.1 of **Application Document 7.8 Outline Landscape and Ecology Management Plan**.

Compensate

3.3.11 As stated in paragraph 3.3.7, there are no veteran trees identified as requiring removal to facilitate the Project based upon the Project design on which the Arboricultural Impact Assessment (**Application Document 7.14 Arboricultural Impact Assessment**) is based. However, as further discussed in paragraph 3.3.7, veteran tree T4 may require removal if the flexibility afforded by the LoD for the proposed overhead line was to be used to the south in its location. Should T4 be removed, all brash, timber and material from the tree removed will be retained on-site in brash/wood piles as close to the original location of the felled tree as possible, as per a specific commitment in **Application Document 7.3 Register of Environmental Actions and Commitments**. This would provide a deadwood

habitat area and therefore T4 would continue to provide essential habitat for local biodiversity. The material to be left should be as intact as is practicable.

3.3.12 Should T4 require removal, Socken Wood (which is also located in Route Section A) has been identified for mitigation planting, as detailed in Table 8.2 of **Application Document 7.8 Outline Landscape and Ecology Management Plan**. A replanting ratio of 30:1 has been agreed with Natural England and East Riding of Yorkshire Council, secured through **Application Document 7.3 Register of Environmental Actions and Commitments**.

3.3.13 To assess and ensure the effectiveness of the compensation works, a monitoring programme will be agreed with Natural England and East Riding of Yorkshire Council and adopted by National Grid. The purpose of this is to assess the results of compensation works and adapt or amend as necessary.

3.3.14 Due to the ecological significance of veteran trees, a monitoring programme (including maintenance where required) will be agreed with Natural England and relevant local planning authorities and adopted by National Grid. The monitoring programme will cover a 30-year period as secured through a specific commitment in **Application Document 7.3 Register of Environmental Actions and Commitments**, which aligns with Table 6.1 of **Application Document 7.8 Outline Landscape and Ecology Management Plan**.

3.4 Mitigation Methods

Embedded Measures

3.4.1 Environmental appraisal has been an integral part of the Project design from the outset, which has meant that the Project has been able to avoid environmentally sensitive features as far as reasonably practicable. National Grid has also embedded measures into the design of the Project to avoid or reduce significant effects that may otherwise be experienced during construction and operation (and maintenance) of the Project.

3.4.2 Embedded measures are those that are intrinsic to and built into the design of the Project; these are presented in **Application Document 7.3 Register of Environmental Actions and Commitments**. Embedded measures of relevance to veteran trees assessment are:

- DE1: The Project will be delivered and operated in compliance with all relevant legislation, consents and permits.
- DE3: The Project will seek to retain the pylon positions as shown on **Application Document 2.4 Works Plans** unless following detailed design there are engineering, safety, environmental or other reasons to move a pylon within the Limits of Deviation.
- DE10: Clearly demarcated, dedicated access routes will be provided during construction.
- DE14: All known veteran trees within, and which have canopy overhanging, the Order Limits will be retained with the exception of T4 Common Oak - *Quercus robur* which can not be retained if the flexibility afforded by the Limits of Deviation were to be used. The locations of veteran trees are shown within Appendix D of **Application Document 7.14 Arboricultural Impact Assessment**.

- GG01: The final versions of the outline environmental management plans will be submitted for approval in accordance with Requirement 4 (construction management plans) of Application Document 3.1 Draft Development Consent Order prior to commencement of development and will reflect the final construction methodologies produced by the Main Works Contractor(s). The following will be produced prior to construction:
  - Code of Construction Practice (CoCP);
  - Construction Traffic Management Plan (CTMP);
  - Soil Management Plan;
  - Public Right of Way Management Plan;
  - Noise and Vibration Management Plan;
  - Landscape and Ecology Management Plan;
  - Archaeological Written Scheme of Investigation; and
  - Cultural Heritage Management Plan.
  - Framework Construction Surface Water Management Plan (CSWMP)

All construction works will be undertaken in general accordance with these plans and all referenced subordinate plans.

3.4.3 In addition to the embedded measures set out in **Application Document 7.3 Register of Environmental Actions and Commitments**, the following considerations were an integral part of the Project's iterative design process:

- Sensitive routeing and siting to develop the proposed overhead line alignment and Order Limits to avoid or reduce as far as practicable the impacts upon veteran trees. This is in line with NPS EN-1 (Department for Energy Security & Net Zero, 2025) and NPS EN-5 (Department for Energy Security & Net Zero, 2025).
- Micro-siting of pylons during the design process has taken into account swing of the proposed overhead lines to avoid or minimise loss of veteran trees/tree canopy as far as practicable.
- The Project design incorporates areas of proposed mitigation planting across the Order Limits; these are discussed in **Application Document 7.8 Outline Landscape and Ecology Management Plan** and shown on **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**.

Control and Management Measures

3.4.4 Control and management measures comprise management activities and techniques that will be implemented during construction of the Project to limit effects, through adherence to good site practices and ensuring legal compliance.

3.4.5 Measures relevant to the control and management of impacts during construction have been included within **Application Document 7.2 Outline Code of Construction Practice** and **Application Document 7.8 Outline Landscape and Ecology Management Plan** which are secured by Requirement 4 of **Application Document 3.1 Draft Development Consent Order**, and **Application Document 7.3**

Register of Environmental Actions and Commitments secured by Requirement 5 of **Application Document 3.1 Draft Development Consent Order**. Mitigation methods have been incorporated into both the 'Avoid' and 'Minimise' levels of the mitigation hierarchy (Table 3.2) in order to further reduce impacts to veteran trees and ensure health and vitality of trees is maintained throughout construction by preventing incursion into buffer zones and addressing the rooting and above-ground environments of trees. Methods of mitigation may include, but are not limited to:

- Ground protection;
- Tree protection fencing; or
- Micro-siting of works.

3.4.6 Specifications for fencing are outlined in section 6.3 of **Application Document 7.8 Outline Landscape and Ecology Management Plan** and should be in accordance with clause 6.2 of BS 5387:2012 (British Standards Institution, 2012). Barriers and/or ground protection will be used to safeguard the RPA on site of veteran trees to be retained. A precautionary RPA has been provided around groups of trees with the RPA reflecting the largest tree in the groups calculated RPA extent. In accordance with clause 6.2.1.1 of BS 5387:2012 (British Standards Institution, 2012), all barriers and ground protection will be installed prior to construction at each relevant location and remain in place until construction has ceased.

3.4.7 **Application Document 7.3 Register of Environmental Actions and Commitments** sets out the Project commitments in relation to trees. The following control and management measures are of relevance to veteran trees:

- ARB01 – All construction, operation and maintenance works will be undertaken in accordance with the approaches and measures set out within **Application Document 7.8 Outline Landscape and Ecology Management Plan**.
- ARB02 – The Mains Works Contractor(s) will, where necessary, produce and comply with a site-specific Arboricultural Method Statement (AMS) including a Tree Protection Plan. The site-specific AMS will detail specified methodologies to limit, mitigate or manage the impact on trees.
- ARB03 – The Project, and specific construction tasks, will take a hierarchical approach to trees, aiming to retain as many trees as practicable in the first instance by applying Engineering Recommendation G136 Vegetation Management Near Electricity Equipment – Principles of Good Practice (Energy Networks Association, 2020), and avoiding total loss of habitat where practicable (i.e. by pruning, pollarding or coppicing rather than complete tree removal).
- ARB04 – Following detailed design and prior to construction (of relevant parts of the Project), relevant surveys will be undertaken of arboricultural features that may be impacted or need to be removed to ensure any tree/hedgerow removal is reduced as far as practicable.
- ARB05 – Prior to commencement of construction activities, a review of all Tree Preservation Order (TPO) records within the Arboricultural Study Area will be conducted.
- ARB06 – Construction exclusion zones (CEZ) will be established, which will encompass Root Protection Areas and be shown on a Tree Protection Plan to be produced prior to start of construction. CEZs are to be implemented for the duration of construction and will be demarcated by tree protection fencing.

Where access only is required, temporary ground protection measures would be installed to prevent soil compaction and root damage. Where works within a CEZ are required, supervision of the works will be undertaken by an ArbCoW and any additional recommendations followed.

- ARB08 – Where pruning to the crown or roots is necessary (such as where tree pruning is required to achieve electrical safety clearances), this will be undertaken in accordance with BS 3998:2010 (British Standards Institution, 2010).
- ARB09 – Prior to construction near trees, requirements for facilitation pruning to avoid injurious contact are to be determined with arboricultural supervision by the ArbCoW.
- ARB10 – Where practical, stockpiles, material storage, vehicle tracking, and soil bunds will be located away from trees and hedgerows. This is to ensure no damage occurs to these features and that works remain outside of the root protection area of the features. Works that cannot be undertaken without entering into an RPA will be addressed within a site-specific AMS. The site-specific AMS will ensure all appropriate measures are in place to protect the area (unless otherwise agreed with the relevant local planning authority).
- ARB11 – To minimise as far as practicable, the impacts to designated ancient woodlands will be protected throughout the works, with a minimum exclusion zone of 15 m offset from the edge of the ancient woodland. (**Application Document 2.9 Habitats of Protected Species and Important Habitats**). For any necessary works within the Root Protection Areas, an ArbCoW will be consulted to agree the working method if breaking ground is required and to remove compaction risks.
- ARB12 – In order to construct the Project, including to provide the necessary electrical clearances required to construct and maintain a safe and reliable power grid, under the supervision of the ArbCoW for the Project, the following veteran trees can be managed in the following ways: [The commitment then reproduces the measures set out in Table 3.3 above]. The locations of these veteran trees are shown within **Application Document 7.14 Arboricultural Impact Assessment**.
- ARB13 – The canopies of two veteran trees T44 and T46, both White willow – *Salix alba*) are currently managed by the local authority due to their proximity to the highway. Depending on their current management cycle and the Project's requirements, additional/interim canopy management may be required to be undertaken by the Project to avoid accidental damage by traffic. Should this be required all works will be agreed in advance with the ArbCOW and would be akin to the degree of management currently undertaken. The locations of these veteran trees are show within **Application Document 7.14 Arboricultural Impact Assessment**.
- ARB14 – Following completion of construction in an area surrounding the Root Protection Area of a retained veteran tree, remediation should be agreed with the relevant Local Planning Authority (LPA) and the Arboricultural Clerk of Works (ACoW). If required remediation should be undertaken with ACoW supervision. Remediation works may include, but are not limited to:
  - Mulching the trees rooting area;
  - Soil decompaction, using an airspade or similar;
  - Soil improvement additives;

  - Halo pruning of competing vegetation;
  - Remediation pruning, such as phased retrenchment pruning;
  - Establishment of a permanent exclusion zone through the installation of fencing or dead hedging to prevent soil compaction or disturbance;
  - Land management changes, such as the creation of permanent agricultural headlands;
  - Companion/shelter planting with suitable species, potentially trees raised from local veteran tree provenance; and
  - Habitat creation using wildlife boxes, erection of deadwood and other measures.

- ARB18 – National Grid has committed to a 3:1 replacement for individual trees and individual trees within small groups. The Project will prioritise (where possible and practicable) the replanting for individual trees and small groups of individual trees within the Order Limits.
- GG02 – The Mains Works Contractor(s) will undertake site inspections to check conformance to the measures set out within each of the management plans and their subordinate plans as set out within GG01.
- GG03 – A number of roles and their respective responsibilities are listed within **Application Document 7.2 Outline Code of Construction Practice**. Suitability qualified personnel will be appointed to undertake these roles for the duration of the construction phase.
- GG04 – Construction workers will undergo training to increase their awareness of environmental issues as applicable to their role on the Project as set out within **Application Document 7.2 Outline Code of Construction Practice**.
- GG05 – A record of condition (held within an Aftercare Management Plan will be produced by the Main Works Contractors(s)). It will cover the working area(s) that may be affected by the construction activities prior to the works commencing. These surveys will identify and record the condition of features such as trees, woodland, hedgerows, walls and fences, and will comprise of photographic, descriptive, and locational baseline evidence/ information. Records will be available for comparison. The land will be reinstated to a condition no worse than shown on the record of condition (or as agreed with the relevant landowner). Exceptions to reinstatement will be replacing mature vegetation and replanting directly beneath the proposed overhead line where it may cause operational safety concerns.
- GG07 – Where sensitive features are to be retained within the Order Limits, an appropriate protective area will be established using appropriate demarcation and signage will be inspected, repaired and replaced as necessary.
- E22 – Construction Exclusion Zones (CEZs) will be established prior to construction to define working areas and ensure protection of retained habitats throughout the Project. Where practicable, no construction works (temporary or permanent) will occur within the following environmental buffers:
  - 10 m of a woodland block (or as detailed in the **Application Document 7.14 Arboricultural Impact Assessment**);

- 15 m of designated ancient and other woodland recorded by the Project as having the characteristics of ancient woodland;
- 5 m of a hedgerow, plus Root Protection Areas (RPAs) for retained trees within the hedgerow;
- 10 m of a pond (holding water);
- 5 m of the top of a ditch;
- 10 m of an ordinary watercourse; and
- 16 m of a main river.

Where CEZs cannot be established, any works within buffers will be discussed with the applicable Clerk of Works prior to the works commencing and appropriate mitigation will be implemented.

- ON01 – All semi-natural vegetation will be retained as far as is reasonably practicable. This will be extended to include any feature that could support nesting birds such as existing infrastructure such as buildings, walls or any other structure with a ledge or cavity suitable for nesting birds. Where these measures are not reasonably practicable and works need to be carried out during the bird breeding season, all affected areas will be checked by the ECoW for evidence of nesting birds 24 hours (as standard) prior to all vegetation removal works taking place. There may be some instances where 24 hours is not practical, therefore a maximum period of 48 hours is permitted. In such cases, vegetation removal will be overseen by the ECoW (or a suitably experienced taxon specialist supporting the ECoW if required). If any active bird nests are discovered, these will be given a minimum standoff of 5 m (this may increase depending on species, proposed works and location) where no potentially disturbing works will take place until the young have fledged and the nest is vacated. A second nesting bird check would then be undertaken to ensure the tree or vegetation does not contain any further active nests prior to felling or removal works taking place.
- LV02 – The Main Works Contractor(s) will apply the relevant protective principles as set out in British Standard (BS) 5837:2012: Trees in relation to design, demolition and construction (British Standards Institution, 2012). All works to trees will follow guidance in BS 3998:2010: Tree work – Recommendations. Tree work to veteran trees and those under Tree Preservation Orders will be undertaken by a suitably qualified arboriculturist and supervised by the Arboricultural Clerk of Works (ArbCoW).

Additional Measures

3.4.8 Additional measures comprise mitigation measures over and above any embedded and control and management measures, which are identified as a requirement to further reduce significant environmental effects. The following additional measures in **Application Document 7.3 Register of Environmental Actions and Commitments** are applicable to veteran trees:

- ARB07 – Any bespoke mitigation measures in relation to trees will be specified following detailed design by the Main Works Contractor(s). These may include one or a combination of the following:

- Design refinements to avoid or reduce encroachment, micro-siting, working from track side, hand digging;
- ‘No dig’ solutions such as cellular confinement systems (CCS), ground protection, and protective fencing; and
- Use of plant or equipment with low ground pressure such as wide-tracked vehicles.

During construction, where works within a Root Protection Area are required, these will be captured within an Arboricultural Method Statement (AMS) (including Tree Protection Plan) with supervision of the works to be conducted by an ArbCoW and any additional mitigation measures followed.

- ARB15 – To assess and ensure the effectiveness of remediation works to veteran trees, a monitoring programme will be agreed with Natural England and relevant Local Planning Authorities and adopted by National Grid. Due to the ecological significance of veteran trees, the monitoring programme will cover a 30-year period.
- ARB16 – To construct a safe and reliable power grid, it may become necessary, following the detailed design of the Project, for the following veteran tree to be removed (by use of the Limits of Deviation):
  - T4 Common Oak – *Quercus robur*.

All brash, timber and material from the tree removed be retained on-site in brash/wood piles as close to the original location of the felled tree as possible.

- ARB17 – A replanting ratio of 30:1 for the loss of T4 has been agreed with Natural England and East Riding of Yorkshire Council. Planting at this ratio will be undertaken adjacent to Socken Wood in the location identified on **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**. The location of the planting and further information is presented within the **Application Document 7.8 Outline Landscape and Ecology Management Plan** and the **Application Document 7.14 Arboricultural Impact Assessment**.
- LV04 – Planting and seeding operations will be undertaken during an appropriate planting/seeding season, and where planting is in locations not affected by other construction activities, planting will be undertaken at the earliest opportunity.
- E20 – The Project is also committed to adopting a sustainable approach to development by proactively taking measures to ensure that the Project leaves the environment in a better condition than it was before development (including but not limited to delivering 10% Biodiversity Net Gain (BNG) with environmental and societal benefits). The Project will seek to provide strategic habitat enhancement and creation, aiming to identify and implement opportunities to improve habitat quality and connectivity and align with national nature recovery objectives and projects. Such measures may include specific habitat creation and enhancement measures and additional receptor-specific measures such as the creation of habitat piles and installation of bird and bat boxes.

4. Conclusion

4.1.1 Field surveys carried out for the Project identified a total of 37 veteran trees and one veteran group within the study area. Based upon the Project design used as the basis of the AIA (as set out in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** and shown in **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**, **Application Document 6.4.F3 Environmental Statement Figure 4.3 Temporary Construction Works**, and **Application Document 6.4.F4 Environmental Statement Figure 4.4 Third Party Works**), no veteran trees require removal. However, in the event flexibility of the LoD are used to the south at 4AF4 or 4AF5 there would be a requirement to remove one veteran tree (common oak, T4), see Table 3.3.

4.1.2 Eleven veteran trees and one veteran tree group have been identified for management/pruning as per the Project design used as the basis of the AIA (see above). A further ten veteran trees may require management should the flexibility afforded by the LoD be used in their locations[3]. These are detailed in Table 3.3.

4.1.3 A list of the veteran trees in the study area and their position within the mitigation hierarchy is provided in Annex A, and these are shown in **Figure 1 Arboricultural Impacts Plan** in Appendix D to **Application Document 7.14 Arboricultural Impact Assessment**.

4.1.4 Project commitments relating to veteran trees (in relation to proposed mitigation measures, remediation works, and long-term monitoring) are secured within **Application Document 7.3 Register of Environmental Actions and Commitments** and reproduced in section 3.4.

4.1.5 **Application Document 7.8 Outline Landscape and Ecology Management Plan** sets out the framework for the mitigation to be delivered in relation to veteran trees. Prior to construction a detailed Landscape and Ecology Management Plan will be developed based on detailed design and construction methodology information to be provided by the Main Works Contractor(s). Delivery of the detailed Landscape and Ecology Management Plan is secured through the appropriate Requirement in **Application Document 3.1 Draft Development Consent Order**, this document will be substantially in accordance with **Application Document 7.8 Outline Landscape and Ecology Management Plan**.

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Annex A.

Veteran Trees and Veteran Groups within the Study Area

Annex A
Veteran Trees and Veteran Groups within the Study Area

A.1.1 Table A.1 details all 37 veteran trees and veteran groups within the study area. The assumed mitigation provided represents a reasonable worst-case scenario based on the Project design set out in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** and shown in **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**, **Application Document 6.4.F3 Environmental Statement Figure 4.3 Temporary Construction Works**, and the flexibility afforded by the LoD.

A.1.2 Table A.1 is to be read in conjunction with Appendix D Arboricultural Impacts Plan to **Application Document 7.14 Arboricultural Impact Assessment**.

Table A.1 – Veteran Features within the study area

Feature ID	Species	RPAs (m)	Route Section	Assumed mitigation under assessed Project design[10] (refer to Table 3.2 for details)	Assumed mitigation should the flexibility afforded by the LoD be used in each location (refer to Table 3.2 for details)
T4	Common oak (Quercus robur)	21.8	A	Avoid	Compensate
T12	Ash (Fraxinus excelsior)	18.0	A	Minimise	Minimise
T13	Ash	15.0	A	Minimise	Minimise
T15	Ash	15.0	A	Avoid	Avoid
T16	Field Maple (Acer campestre)	12.6	A	Avoid	Avoid
T31	Ash	8.1	A	Avoid	Avoid
T36	White willow (Salix alba)	18.8	A	Minimise	Minimise
T4411	White willow	24.0	A	Avoid	Minimise
T4611	White willow	25.5	A	Avoid	Minimise
T49	Crack willow (Salix fragilis)	25.5	A	Minimise	Minimise

[10] Project design set out in **Application Document 6.4 Environmental Statement Chapter 4 Description of the Project** and shown in **Application Document 6.4.F1 Environmental Statement Figure 4.1 Proposed Project Design**, **Application Document 6.4.F3 Environmental Statement Figure 4.3 Temporary Construction Works**, and **Application Document 6.4.F4 Environmental Statement Figure 4.4 Third Party Works**.

[11] Noting that T44 and T46 are currently managed by the local authority due to their proximity to the highway. The requirement for interim management by the Project will be dependent on their current management cycle, as set out in paragraph 3.3.6

Feature ID	Species	RPAs (m)	Route Section	Assumed mitigation under assessed Project design[10] (refer to Table 3.2 for details)	Assumed mitigation should the flexibility afforded by the LoD be used in each location (refer to Table 3.2 for details)
T67	Crack willow	22.5	A	Minimise	Minimise
T77	Common oak	16.5	A	Avoid	Minimise
T83	Common oak	13.1	A	Avoid	Minimise
T90	Crack willow	19.5	B	Avoid	Minimise
T97	White willow	25.1	B	Avoid	Avoid
T122	Common oak	22.5	D	Avoid	Avoid
T126	White willow	23.6	D	Avoid	Avoid
T128	Common oak	12.0	D	Avoid	Avoid
T130	White willow	24.3	D	Avoid	Minimise
T144	White willow	12.0	D	Avoid	Minimise
T151	White willow	26.4	D	Avoid	Avoid
T154	White willow	25.5	D	Avoid	Avoid
T155	White willow	16.0	D	Avoid	Avoid
T157	White willow	24.6	D	Minimise	Minimise
T171	Ash	16.5	E	Avoid	Avoid
T214	Crack willow	37.5	E	Minimise	Minimise
T215	Crack willow	37.5	E	Minimise	Minimise
T216	White willow	34.5	E	Minimise	Minimise

Feature ID	Species	RPAs (m)	Route Section	Assumed mitigation under assessed Project design[10] (refer to Table 3.2 for details)	Assumed mitigation should the flexibility afforded by the LoD be used in each location (refer to Table 3.2 for details)
T219	White willow	13.9	E	Minimise	Minimise
T238	Common oak	22.5	E	Avoid	Avoid
T240	White willow	19.5	E	Avoid	Minimise
T242	Crack willow	37.5	E	Avoid	Avoid
T244	White willow	22.5	E	Avoid	Avoid
T245	White willow	30.0	E	Avoid	Minimise
T246	White willow	27.0	E	Minimise	Minimise
T249	White willow	27.8	E	Avoid	Avoid
T252	White willow	15.0	F	Avoid	Minimise
G41	Crack willow	19.2	B	Minimise	Minimise

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