The Great Grid Upgrade

North Humber to High Marnham

NHHM-AEC-CNS-REP-0080

North Humber to High Marnham

Volume 6: Environmental Statement

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1. Preliminary Qualitative Minerals Resource Assessment

1.1 Introduction

1.1.1 This appendix to **Application Document 6.12 Chapter 12 Geology and Hydrogeology** presents a preliminary qualitative Minerals Resource Assessment (MRA) that has been produced to inform the Environmental Statement (ES) for the Project.

1.1.2 This appendix has been prepared to provide baseline information on the minerals present within the 250 m study area and identify the potential effects of the Project on Mineral Safeguarding Areas (MSA) and/or Mineral Consultation Areas (MCA) with the purpose of establishing the potential impacts on mineral resources of economic importance and to consider whether further consideration and mitigation is required.

1.1.3 As described in **Application Document 6.12 Chapter 12 Geology and Hydrogeology**, the study area for geology comprises the Order Limits plus a 250 m buffer.

1.1.4 This MRA has been written with regard to Minerals Safeguarding Practice Guidance (Minerals Products Association, 2019) which provides guidance on the scope and format of the MRA.

1.1.5 For ease of reference the Project has been split into six Route Sections which are described in **Application Document 6.4 Chapter 4 Description of the Project.**

1.1.6 This MRA is also supported by **Application Document 6.12.3 Figure 12.3.1 Geologically Designated Sites**.

1.2 Minerals Policy and Planning

National Policy Statements

1.2.1 As described in **Application Document 6.2 Chapter 2 Legislation and Policy Context**, when examining an application for development consent, the Planning Inspectorate is required to have regard for the relevant National Policy Statements (NPS). The two relevant NPS for the Project are the Overarching NPS for Energy (EN-1) (Department for Energy Security & Net Zero, 2025) and the NPS for Electricity Networks Infrastructure (EN-5) (Department for Energy Security & Net Zero, 2025).

1.2.2 Paragraph 5.11.19 of EN-1 (Department for Energy Security & Net Zero, 2025) states, *'Applicants should safeguard any mineral resources on the proposed site as far as possible, taking into account the long-term potential of the land use after any future decommissioning has taken place'*.

1.2.3 Paragraph 5.11.28 states *'Where a proposed development has an impact upon a Mineral Safeguarding Area (MSA), the Secretary of State should ensure that appropriate mitigation measures have been put in place to safeguard mineral resources'*.

1.2.4 Although the relevant NPS's provide the primary policy against which the application will be determined, regional and local policy documents may also be considered important and relevant to decision-making. Therefore, the relevant minerals plans have been considered when developing this MRA.

National Planning Policy Framework

1.2.5 The National Planning Policy Framework (NPPF) (Ministry of Housing, Communities & Local Government, 2026) describes how;

1) 'Proposals for non-mineral development should not:

a. Constrain potential future use for mineral working in a Mineral Safeguarding Area; or

b. Prevent or constrain the use of existing, planned and potential sites for:

i. The bulk transport, handling and processing of minerals;
ii. The manufacture of concrete and concrete products; or
iii. The handling, processing and distribution of substitute, recycled and secondary aggregate material.

2) Where proposals for non-mineral development are located within a Minerals Consultation Area, the decision-making authority should consult the mineral planning authority and take account of the local minerals plan before determining the planning application.

3) The prior extraction of minerals, where practical and environmentally feasible, should be supported where it would prevent the sterilisation of minerals deposits as a consequence of other forms of development proposals or allocations'.

1.2.6 The Minerals Planning Practice Guidance (Ministry of Housing Communities and Local Government (2018 to 2021) and Department for Levelling Up, Housing and Communities, 2014) states in paragraph 002 that '*Since minerals are a non-renewable resource, minerals safeguarding is the process of ensuring that non-minerals development does not needlessly prevent the future extraction of mineral resources, of local and national importance'.*

Local Planning Policy

East Riding of Yorkshire and Kingston upon Hull Joint Minerals Local Plan

1.2.7 The East Riding of Yorkshire and Kingston upon Hull Joint Minerals Local Plan (East Riding of Yorkshire and Kingston upon Hull, 2019) covers Route Section A and part of Route Section B of the Project and indicates that large parts of the study area, particularly to the east of the Route Sections, are located within an MSA.

1.2.8 The area around Broomfleet is identified in the Joint Minerals Local Plan as being within a safeguarded area for brick clay and includes the main site for brick clay extraction within the plan area. The Wienerberger Ltd clay works at Broomfleet Tile Works is located within the study area and is a current consented extraction site which has planning permission to extract mineral (clay) for the next 50 years. The site

has been worked for over 100 years and is used in the manufacture of a range of roofing tiles and bricks.

1.2.9 There are no other consented extraction sites, site allocations or proposed allocation sites within the study area.

1.2.10 Policy EC6: Protecting mineral resources of the East Riding Local Plan Strategy Document (East Riding of Yorkshire, 2016) that forms part of the Joint Minerals Local Plan (East Riding of Yorkshire and Kingston upon Hull, 2019) states that '*within or adjacent to Minerals Safeguarding Areas non minerals development, which would adversely affect the viability of exploiting the underlying or adjacent deposit in the future, will only be supported where it can be demonstrated that the:*

i. Underlying or adjacent mineral is of limited economic value;

ii. Need for the development outweighs the need to safeguard the mineral deposit;

iii. Non-mineral development can take place without preventing the mineral resource from being extracted in the future;

iv. Non-mineral development is temporary in nature; or

v. The underlying or adjacent mineral deposit can be extracted prior to the non-mineral development proceeding, or prior extraction of the deposit is not possible.'

North Lincolnshire Local Development Framework

1.2.11 The North Lincolnshire Local Development Framework (LDF) Core Strategy (North Lincolnshire Council, 2011) covers part of Route Section B and Route Sections C and D of the Project; this indicates that much of the study area within North Lincolnshire is located within an MSA for sand and gravel. The southern part of the study area within North Lincolnshire also includes a MSA for brick clay. However, there are no existing consented extraction sites, site allocations or proposed allocation sites within the study area.

1.2.12 Policy CS21: Minerals of the Core Strategy (North Lincolnshire Council, 2011) states that '*Major developments in the Mineral Safeguarding Areas will only be permitted where is has been demonstrated that:*

a) the mineral is no longer of any value, or

b) the mineral can be extracted prior to the development taking place, or

c) the development will not inhibit extraction if required in the future, or

d) there is an overriding need for the development and prior extraction cannot be reasonably undertaken, or

e) the development is allocated in a local development plan document, or

f) the development is not incompatible.'

Nottinghamshire Minerals Local Plan

1.2.13 The Nottinghamshire Minerals Local Plan (Nottinghamshire County Council, 2021) covers Route Sections E and F and the Minerals Local Plan indicates that the majority of the study area within Nottinghamshire is not within a MSA and does not intersect any minerals development or infrastructure. The exception to this is within

the northern most part of this Local Plan area in the southern part of Route Section E which is within an MSA for sands and gravels. In addition, the access road for the Sturton Le Steeple quarry is located within the study area, however the Order Limits do not interact with this.

1.2.14 Policy SP7: Minerals Safeguarding, Consultation Areas and Associated Minerals Infrastructure of the Minerals Local Plan (Nottinghamshire County Council, 2021) states that:

2. 'Non-minerals development within minerals safeguarding areas will have to demonstrate that mineral resources will not be needlessly sterilised as a result of the development and that the development would not pose a serious hindrance to future extraction in the vicinity.

3. Where this cannot be demonstrated, and where there is a clear and demonstrable need for the non-minerals development, prior extraction will be sought where practicable.'

1.2.15 The Order Limits are also indicated to be directly adjacent to Wellsite 37, which is currently operated for oil and gas extraction, although not currently actively extracting at the time of assessment. The Order Limits within this area have been refined since Statutory Consultation, as described within **Application Document 5.9 Design Development Report**, following consultation with Nottinghamshire County Council and local landowners, to remove Wellsite 37 from the Order Limits to avoid any potential interaction. The Project proposes to utilise the existing access, which is also used by the Wellsite, for maintenance of the pylon location, if required.

Local Aggregate Assessments

Humber Area Local Aggregate Assessment

1.2.16 The current landbank for various aggregates for any given Minerals Planning Authority (MPA) is typically documented in a Local Aggregate Assessment (LAA), which reports annually (generally) on aggregate supply and demand within the relevant planning area. The Humber Area Local Aggregate Assessment (Yorkshire and Humber Aggregates Working Party, 2023) covers the Route Sections of the study area that are within the East Riding of Yorkshire, and also North Lincolnshire; with the most recent LAA currently available for these Route Sections reflecting the position at the end of 2021.

1.2.17 The LAA contains the following information in relation to sand and gravel:

- **Sand and gravel sales**: The average aggregate sales for sand and gravel for the most recent ten-year rolling period (2012 to 2021), and three-year rolling period (2019 to 2021), are 0.85 million tonnes per annum (mtpa) and 0.83 mtpa respectively. The sales have been noted to be broadly consistent over the last ten years.
- **Sand and gravel landbank**: Reserves (as of 31 December 2021) were 6.53 million tonnes which is a decrease from the 7.32 million tonnes recorded in the 2018 assessment. Based on the average sales for the most recent ten-year rolling period, the landbank currently stands at 7.7 years which is a decrease from the previous LAA in 2018. This is, however, in excess of the seven-year minimum requirement set out in the NPPF (Ministry of Housing, Communities & Local

Government, 2026) and policy CS21 of the Core Strategy in the LDF (North Lincolnshire Council, 2011)

- **Extraction sites**: At the time the LAA was produced, there were ten active sites extracting sand and gravel, with a further five sites which were dormant or inactive; however, none of these are located within the study area.

1.2.18 The evidence from the LAA indicates that there is no current or foreseeable shortage of sand and gravel reserves in the Humber area.

Nottinghamshire and Nottingham Local Aggregates Assessment

1.2.19 The Nottinghamshire and Nottingham LAA (Nottinghamshire County Council and Nottingham City Council, 2024) covers the Bassetlaw section of the study area, with the most recent LAA reflecting the position at the end of 2023. The LAA contains the following relevant information:

- **Sand and gravel sales**: The ten-year average sales figure (2013-2023) was 1.29 million tonnes (mt) which has steadily fallen since the first LAA was produced. The three-year annual sales average (2020-2023) was 1.16 mt and has also slowly fallen.
- **Sand and gravel landbank**: The current permitted reserves total 20.66 mt of sand and gravel, therefore as of December 2023 the landbank stood at 16.02 years which is in excess of the seven-year minimum requirement set out in the NPPF (Ministry of Housing, Communities & Local Government, 2026). It is also noted that the landbank has been steadily increasing due to a significant extension being granted to one of the permitted quarries and as the ten-year sales average has also been decreasing.
- **Extraction sites**: There are currently eight permitted sand and gravel quarries in the region, with only six of those in full production however none of these are located within the study area.

1.2.20 The evidence from the LAA suggests that the demand for sands and gravels has been decreasing and therefore the landbank of permitted reserves is slowly increasing. It is therefore considered that there is no current or foreseeable shortage of sand and gravel in the Nottinghamshire and Nottingham area, and that the existing landbank is adequate.

1.3 Existing Baseline

Minerals Composition and Thickness

1.3.1 The geology in the study area is shown on **Application Document 6.12.F1 Figure 12.1 Superficial Geology** and **Application Document 6.12.F2 Figure 12.2 Bedrock Geology** and discussed within **Application Document 6.12 Chapter 12 Geology and Hydrogeology** and **Application Document 6.12.A2 Appendix 12.2 Preliminary Contamination Risk Assessment**.

Mineral Assessment Reports

1.3.2 The Minerals Assessment Reports (MARs) are a series of reports that describe the mineral resources across areas of the United Kingdom. The reports were produced using data gathered from borehole surveys and contain qualitative and quantitative data on lithology, composition, particle size analysis and other information of commercial value.

1.3.3 There are two relevant MARs which cover the northern part of North Lincolnshire, and both the southern part of North Lincolnshire and the northern part of the Bassetlaw section (Route Sections 8 and 9).

Minerals Assessment Report 22

1.3.4 MAR 22 (James, 1976) covers the northern part of the North Lincolnshire section. The MAR subdivides the area covered into resource blocks where the mineral is then sub divided into areas where it is exposed and areas where it is present beneath overburden.

1.3.5 The study area crosses through resource blocks A, B, C and D which are all described as being in areas where there is '*continuous or almost continuous spreads of mineral beneath overburden*' with the overburden ranging from 7 m in resource block A in the north of the section, to 1.5 m in the southern part of the MAR area in resource block D, south of Eastoft. A review of the descriptions of each resource block indicates that there is the potential for workable mineral to be present, based on the boreholes reviewed by the MAR; however, it is often confined by substantial thicknesses of overburden.

Minerals Assessment Report 43

1.3.6 MAR 43 (Thomas., 1979) covers the northern part of the Bassetlaw section. The study area crosses resource blocks C and D within the northern part of the section and then crosses into an area to the south of the resource blocks which is described as *'sand and gravel either not potentially workable or absent*'.

1.3.7 Resource block C was described as mineral bearing; however, sand and gravel was not encountered in some boreholes and the thickness of the mineral where encountered was found to be variable with overburden of sandy soil up to 1.5 m thick.

1.3.8 Resource block D was also described as mineral bearing, and the thickness of the mineral varies from 1.8 m to 9.4 m. The mineral is noted to be entirely covered by a thin layer of alluvial clays and silts.

Summary

1.3.9 The MARs only cover a very small part of the study area, with MAR 43 (Thomas., 1979) showing that the majority of the study area covered by that report is within an area where the mineral is absent, which is consistent with the minerals local plan for the area.

1.3.10 The reports show that mineral is likely to be present in parts of the route; however, it is also likely to be covered by a thick layer of overburden in North Lincolnshire. In the north of the Bassetlaw section, the route only crosses a very small area of potentially extractable mineral.

1.4 Assessment

Effects of the Project on Safeguarded Extents

1.4.1 The policies maps accompanying the relevant minerals plans indicate that some of the Order Limits are located within safeguarded areas – predominantly for sands and gravels and brick clay. However, the Order Limits are the largest extents of the Project covering the entire working area and does not therefore represent the actual potential area where mineral may be sterilised. The actual physical footprint of the operational Project components is a relatively small proportion of the Order Limits.

1.4.2 There are no proposed sections of undergrounding for the Project infrastructure itself; however, some of the third-party services that are crossed by the proposed overhead line, including low voltage electricity and telecommunication lines, are proposed to be undergrounded. The proposed overhead line comprises pylons spaced generally between approximately 350 m to 450 m apart, and the conductors which span between the pylons. The conductors may not result in sterilisation of minerals, as minerals could be extracted from beneath the proposed overhead line, following suitable assessment and consultation with National Grid. Therefore, potential areas of sterilisation of the minerals relates only to the pylon bases and any operational clearance required.

1.4.3 In addition, based on the information from the MARs and the published geology of the area, the foundations of pylon bases along at least part of the route are likely to be entirely or almost entirely within overburden material that is present to relatively significant depth over any mineral present.

1.4.4 This infrastructure is also considered to be temporary, as although during the operational lifetime of the Project the areas of mineral could not be feasibly extracted (beneath the built elements such as pylon bases), once decommissioned, the infrastructure could be removed and access to the underlying mineral restored.

Effects of the Project on Existing Minerals Infrastructure

1.4.5 The Wienerberger Ltd clay works at the Broomfleet Tile Works, is located within the study area. However, whilst the proposed overhead line may have some impact on the existing/proposed activities at the site, National Grid will continue to engage with the mineral operator to agree mitigation for any potential impacts on the site operations so that significant effects are unlikely (A**pplication Document 5.8.25 Statement of Common Ground - Wienerberger Limited)**.

1.4.6 The Sturton Le Steeple quarry access road is also located within the study area; however, this does not interact with the Order Limits of the Project, and there is considered to be no impact on the mineral operator, therefore, significant effects are unlikely.

1.4.7 The oil and gas extraction site, known as Wellsite 37 is located directly adjacent to the Order Limits. However, the Order Limits in this area have been adjusted to ensure there is no interaction with the Wellsite itself. The Project does, however, propose to use the same access as the Wellsite for any potential maintenance required at the nearest pylon to the site. There is considered to be no impact on the Wellsite and therefore, significant effects are not anticipated to arise.

Engineering and Construction Considerations

1.4.8 Prior extraction refers to the removal of a mineral resource, to prevent sterilisation, prior to the commencement of construction works on a project. Incidental extraction refers to the removal of a mineral resource during the construction of a project. In both scenarios there is the option to extract only the mineral that is encountered during the construction works required to facilitate the Project, or to go further than the normal construction requirements and excavate all the accessible minerals beneath any built parts of the Project.

1.4.9 In this case, incidental extraction is not considered feasible due to a variety of reasons including the likely engineering requirements needed following mineral extraction, to create an appropriate development platform for the Project, which would have a significant negative impact on the construction programme. In some locations, where the pylons are likely to be founded within nonmineral overburden, incidental extraction of the mineral would require over deepening and additional excavation that would also result in additional engineering to create a suitable development platform for the Project. The additional excavations and engineering would result in additional Project costs and programme delays.

1.4.10 Any prior extraction at pylon bases is likely to produce a small quantity of mineral and would also need to include an area significantly larger than both the pylon bases and any excavations proposed to facilitate their construction (for reasons of practicality and stability). The mineral would then have to be replaced by appropriate material which would likely need to be engineered to meet any specific geotechnical design requirements for the pylon bases. This is likely to require significant additional cost to over excavate, replace with imported material, engineer the material and to provide the suitable stability assessments and specifications required to demonstrate/facilitate short- and long-term stability of the excavations and the pylons. The potential environmental impacts (noise, dust, traffic, landscape and visual) of prior extraction are likely to require environmental assessment/consideration due to their cumulative scale.

1.4.11 It has been considered whether National Grid could replace the excavated mineral with inert waste as a recovery operation, in order to reduce the potential costs associated with prior/incidental extraction; however, this is unlikely to be practical in the context of the discrete relatively small areas and would require additional designs and engineering to fully understand the design implications.

1.4.12 In addition, the use of inert material would require separate additional applications to be made to the Environment Agency for environmental permits (for a waste recovery activity) including supporting risk assessments such as hydrogeological risk assessments and stability risk assessments. The potential environmental impacts of using inert waste could be significant and may require environmental assessment and planning permission in their own right.

1.4.13 It is considered that due to the long relatively narrow corridor that will comprise the Order Limits, and with extraction only considered at pylon bases, this would limit the potential (from a cost and practical perspective) for either prior or incidental extraction in the context of the relatively low volume of mineral likely to be extracted. This is before consideration of the quality and value of the mineral (which may further reduce the volume of quality economic mineral). The cumulative costs of extraction of the mineral, the transport of the mineral to an off-site facility for processing and the subsequent infilling of the void (either with inert waste or engineered fill), together with the potential environmental implications and geotechnical engineering enhancement needed to provide an appropriate material on which to construct the Project is considered to significantly outweigh the economic value of the extracted mineral.

1.5 Conclusion

1.5.1 The conclusions in this section refer to Legislation and Policy and provide an indication of compliance in relation to minerals. A full review of Legislation and Policy, and compliance (of the Project), is provided in **Application Document 5.5 Planning Statement.**

1.5.2 National Grid acknowledges that parts of the study area are located within an MSA, which also extends beyond the study area, across areas of the East Riding of Yorkshire, North Lincolnshire and Nottinghamshire, and that the Order Limits pass through the Wienerberger Ltd clay works. Even if the full extent of the Order Limits within an MSA were to sterilise mineral of sufficient quality and extent to be economically valuable, the extent of the sterilised area is very small in comparison to the extent of the MSA. Therefore, in the context that only a relatively small proportion of the overall Order Limits will sterilise potential mineral resource, the quantity of mineral that could be sterilised by the Project is considered to be insignificant in the context of the extensive occurrence of the minerals (predominantly sand and gravel) within the counties and the national need/significance of the Project as set out in **Application Document 7.17 Strategic Options Report Including Needs Case**

1.5.3 In addition, whilst there are mineral deposits safeguarded within the study area, the existence, extent and quality of such is not proven and is anticipated to be highly variable. Therefore, not all of the safeguarded areas may contain mineral, or mineral of sufficient quality or economical value.

1.5.4 The Wienerberger Ltd extraction site for brick clay is also located within the study area and National Grid will continue to engage with the mineral operator to discuss potential mitigation if appropriate.

1.5.5 Consideration has been given to prior extraction of minerals as part of the Project. This has shown that there are likely to be only small discrete areas of the Project where material could be excavated due to the linear nature of the proposed overhead line, making it impractical.

1.5.6 Further to the above, the additional time that would be needed to be added to the construction schedule would mean that National Grid could miss the Project's intended delivery date, which could also risk meeting of the Governments green energy targets. Therefore, it is considered that in the context of the additional implications and time required, and the unproven economic value of the small amount of mineral that could be realised, prior/incidental extraction of mineral is not viable.

1.5.7 The NPS EN-1 (Department for Energy Security & Net Zero, 2025) requires that developments should safeguard minerals as far as possible and in consideration of the land use following decommissioning. Whist it is acknowledged that some temporary sterilisation of some small areas of minerals resources may occur associated with the Project, these resources could become available in the future.

1.5.8 The NPPF (Ministry of Housing, Communities & Local Government, 2026) encourages prior extraction of minerals '*where practical and feasible'*, and this MRA indicates that this requirement is not met on the Project as it would not be practical to extract the mineral prior to development.

1.5.9 The Project is considered to be of national significance, and therefore the need for the Project '*outweighs the need to safeguard the mineral deposit*' which is one of the statements within Policy EC6 of the East Riding of Yorkshire and Kinston upon Hull,

Joint Minerals Local Plan (East Riding of Yorkshire, 2016) and therefore the Project complies with this policy. Policy CS32 of the North Lincolnshire Local Development Plan (North Lincolnshire Council, 2011) states that where '*there is an overriding need for the development and prior extraction cannot be reasonably undertaken'* major development can be permitted in a MSA, and it is considered that the Project complies with this policy.

1.5.10 In addition, the Project complies with Policy SP7 of the Nottinghamshire Minerals Local Plan (Nottinghamshire County Council, 2021), specifically *'…where there is a clear and demonstrable need for the non-minerals development'*.

1.5.11 Based on the national significance of the Project and that all affected authorities have more than the seven-year land bank of sand and gravel, as required by the NPPF (Ministry of Housing, Communities & Local Government, 2026), and sufficient additional safeguarded areas, it is considered that the potential impact of sterilising the small volume associated with the Project is acceptable without further consideration or mitigation.

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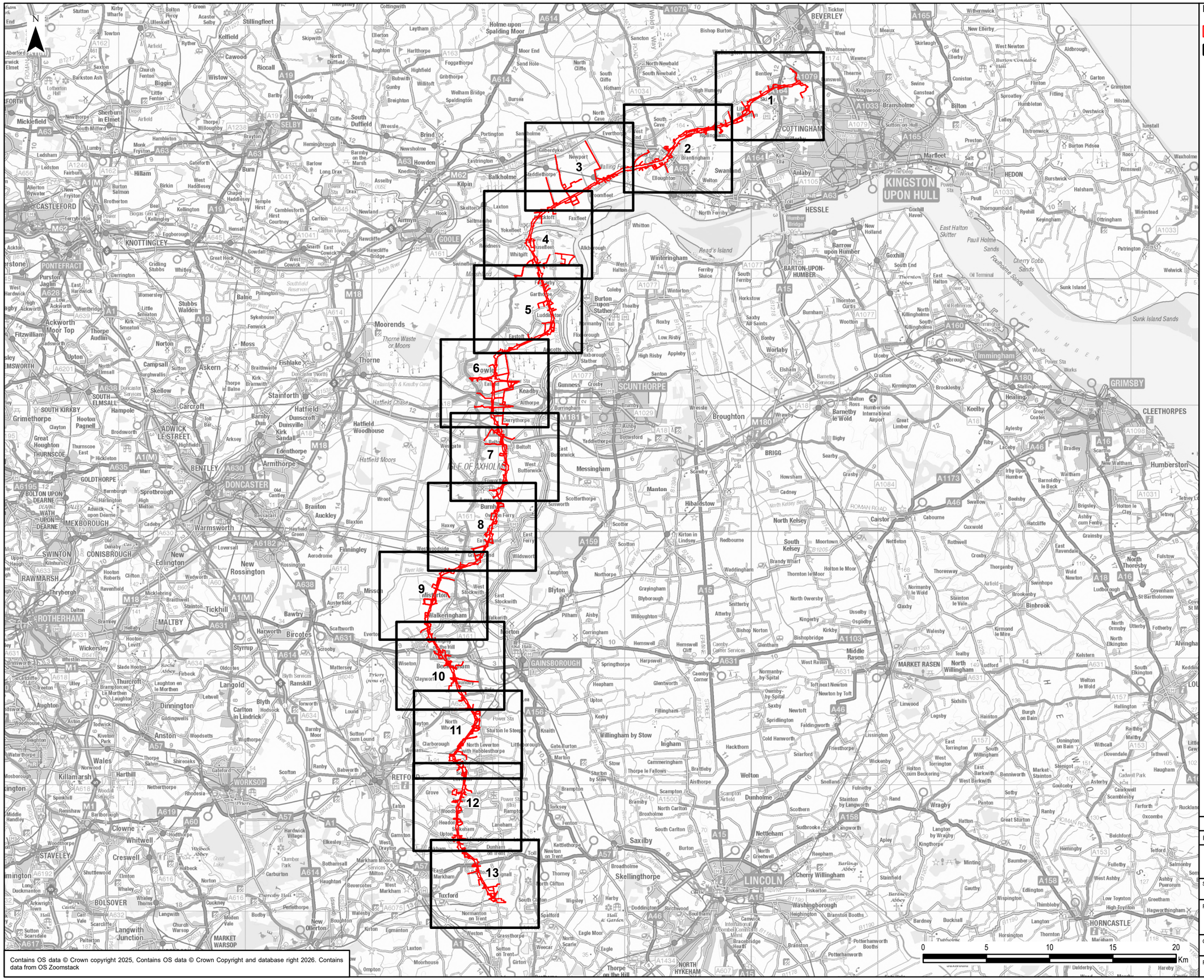
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Figure 1: Mineral safeguarding areas, mineral consultation zones and mineral infrastructure key plan

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Legend

- Order Limits
- Map Sheet

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - MINERAL SAFEGUARDING AREAS, MINERAL CONSULTATION ZONES AND MINERAL INFRASTRUCTURE KEY PLAN

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4ZQ90
Sheet 1 and 2

Legend

- Order Limits
- 250 m Study Area

Existing Overhead Line

- 275 kV
- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Gantry
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected
- Third Party Level of Development
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

Mineral Data

- Mineral Safeguarding Area

0 0.5 1 1.5 2 Km

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

Reproduced from Ordnance Survey digital map data © Crown copyright 2025. All rights reserved. Licence number AC0000808122. Mineral Consultation Zones provided by North Lincolnshire Council, 2026. Mineral Safeguarding Areas provided by East Riding of Yorkshire Council taken from the Joint Minerals Plan (Adopted 2019). Nottinghamshire existing mineral sites and allocations, all as defined in the Adopted Nottinghamshire Minerals Local Plan (March 2021).

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0	14/10/2026	ENVIRONMENTAL STATEMENT	JG	DH	NC

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - MINERAL SAFEGUARDING AREAS, MINERAL CONSULTATION ZONES AND MINERAL INFRASTRUCTURE

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4AF35
4ZQ80
4AF30
4ZQ85
4AF25
4ZQ90
4AF40
4ZQ75
4AF45
4ZQ70
4AF50
4ZQ65

Sheet 1 and 2

Sheet 2 and 3

Drewton
Everthorpe
SOUTH CAVE
West End
Brantingham
Elloughton
Brough
Cave Wold
Comberdale Hill
Sweaty Hill
Wendley Dale
Drewton Dale
Cave Sands
Crabley Farm
Crabley Back Sands Clough
Mill Hill
Hill Top
Turtle Hill
Howe Hill
Thorpe Wold
Welton Wold

0 0.5 1 1.5 2 Km

Legend

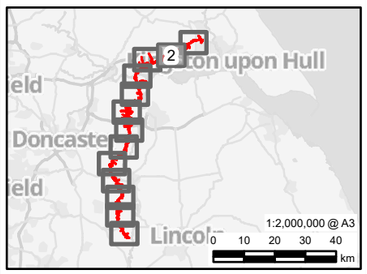
- Order Limits
- 250 m Study Area

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconductored
- Existing Overhead Line to be Dismantled
- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Existing Lattice Pylon To Be Removed
- Third Party Level of Development
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

Mineral Data

- Mineral Safeguarding Area



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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - MINERAL SAFEGUARDING AREAS, MINERAL CONSULTATION ZONES AND MINERAL INFRASTRUCTURE

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N

Broomfleet Tile Works

4AF70
4AF65
4AF60
4AF55
4AF50
4ZQ50
4ZQ55
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4ZQ65

Sheet 2 and 3

Sheet 3 and 4

0 0.5 1 1.5 2 Km

Legend

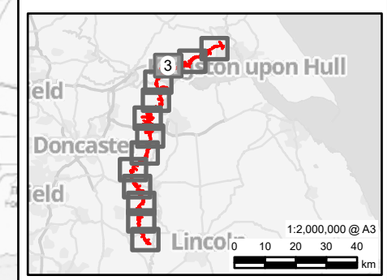
- Order Limits
- 250 m Study Area

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Dismantled
- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Existing Lattice Pylon To Be Removed
- Third Party Level of Development
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

Mineral Data

- Mineral Safeguarding Area



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N

Sheet 3 and 4

Sheet 4 and 5

4AF65
4ZQ50
4AF70
4ZQ45
4AF75
4ZQ40
4AF80
4ZQ35
4AF85
4ZQ30

Route Section A
Route Section B

Laxton
Yokefleet
Whitgift
Reedness
Little Reedness
Adlingfleet
Blacktoft Sand
River Ouse
River Trent
Staddlethorpe

0 0.5 1 1.5 2 Km

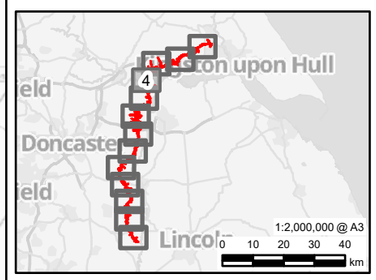
Legend

- Order Limits
- 250 m Study Area
- Route Section

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected
- Third Party Level of Development
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

Mineral Data
- Mineral Safeguarding Area



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N

Sheet 4 and 5

Sheet 5 and 6

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

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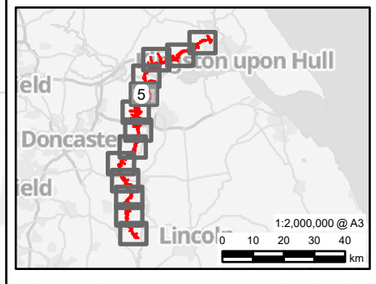
Legend

- Order Limits
- 250 m Study Area

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected
- Third Party Level of Development
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

Mineral Data
- Mineral Safeguarding Area
- Mineral Consultation Zone



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Scheme: NORTH HUMBER TO HIGH MARNHAM

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4AF105
4AF110
4ZQ10
Sheet 5 and 6
Route Section B
Route Section C
4AF115
4ZQ5
ZDA115
4AF119
ZDA120
ZDA125
4AF121
4AF125
Route Section C
Route Section D
Sheet 6 and 7
4AF130

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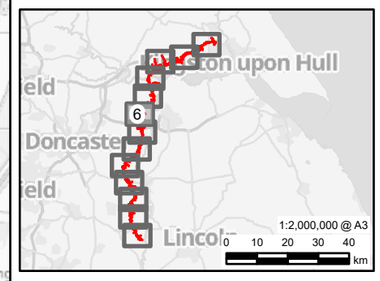
Legend

- Order Limits
- 250 m Study Area
- Route Section

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconductored
- Existing Overhead Line to be Dismantled
- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Existing Gantry Not Affected
- Existing Lattice Pylon To Be Removed
- Third Party Level of Development
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

Mineral Data
- Mineral Consultation Zone



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Scheme: NORTH HUMBER TO HIGH MARNHAM

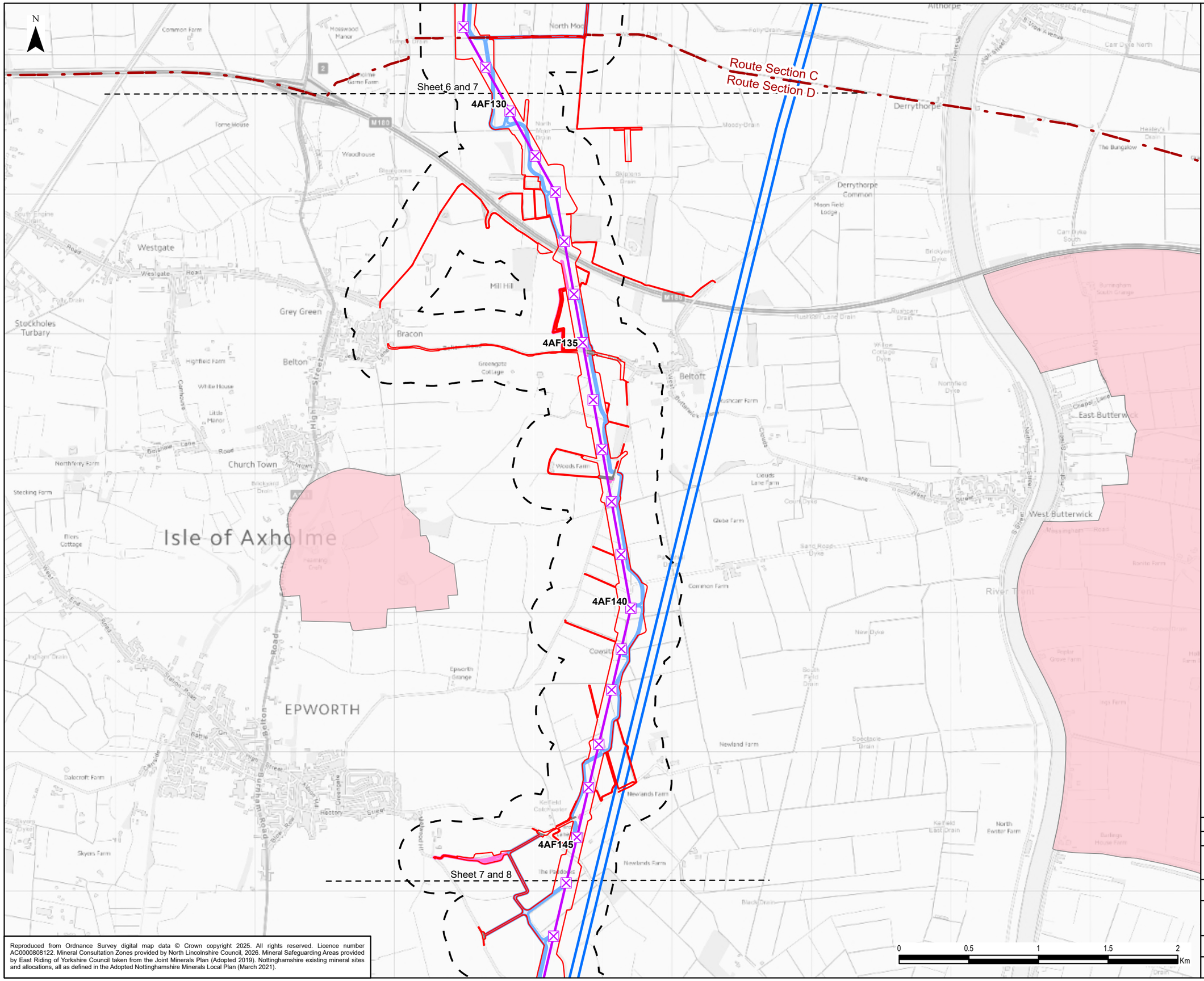
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Legend

- Order Limits
- 250 m Study Area
- Route Section

Existing Overhead Line

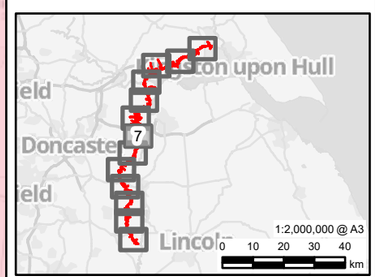
- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Third Party Level of Development
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

Mineral Data

- Mineral Consultation Zone



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Scheme: NORTH HUMBER TO HIGH MARNHAM

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Sheet 7 and 8

4AF150

4AF155

4AF160

Sheet 8 and 9

4AF165

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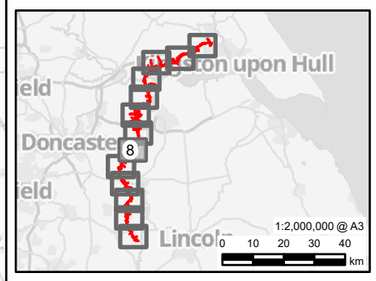
Legend

- Order Limits
- 250 m Study Area

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Third Party Level of Development
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

Mineral Data
- Mineral Consultation Zone
- Mineral Safeguarding Area (Sand and Gravel)



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Scheme: NORTH HUMBER TO HIGH MARNHAM

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4AF160

4AF165

4AF170

4AF175

4AF180

4AF185

Sheet 8 and 9

Sheet 9 and 10

Route Section D

Route Section E

Route Section D

Route Section E

Legend

- Order Limits
- 250 m Study Area
- Route Section

Existing Overhead Line

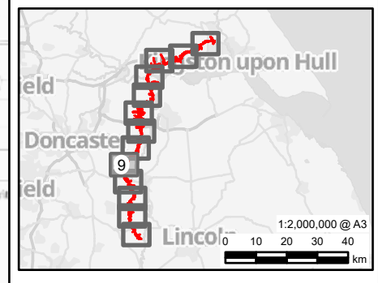
- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Third Party Level of Development
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

Mineral Data

- Mineral Consultation Zone
- Mineral Safeguarding Area (Sand and Gravel)



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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - MINERAL SAFEGUARDING AREAS, MINERAL CONSULTATION ZONES AND MINERAL INFRASTRUCTURE

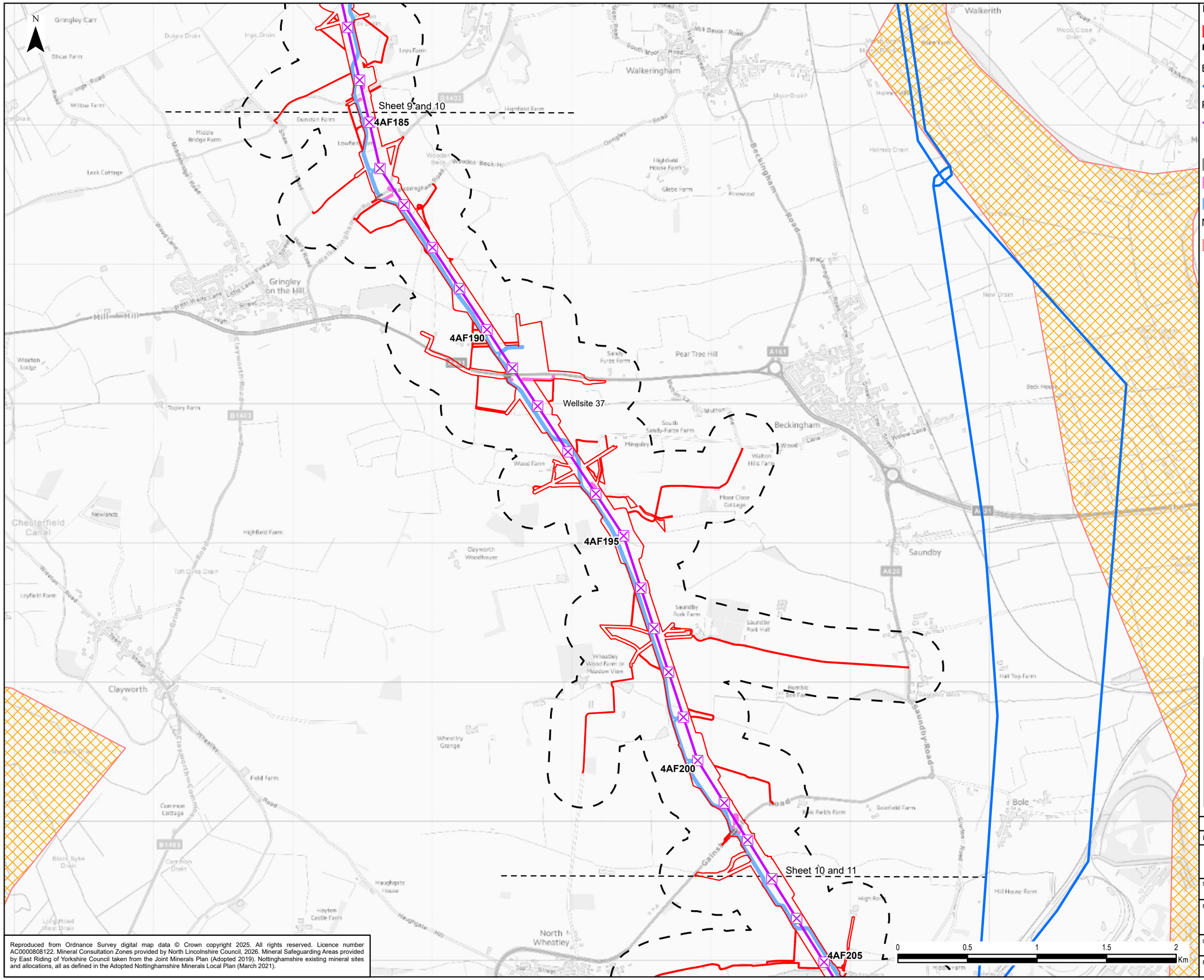
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0 0.5 1 1.5 2 Km

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Legend

- Order Limits
- 250 m Study Area

Existing Overhead Line

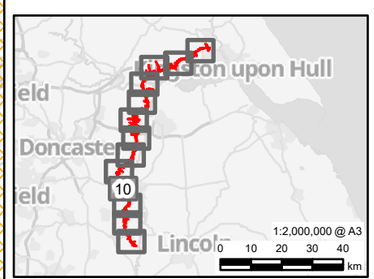
- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Third Party Level of Development
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

Mineral Data

- Mineral Safeguarding Area (Sand and Gravel)



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Scheme: NORTH HUMBER TO HIGH MARNHAM

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N

Sheet 10 and 11

4AF205

4AF210

4AF215

4AF220

4AF225

Sheet 11 and 12

Sturton le Steeple Quarry

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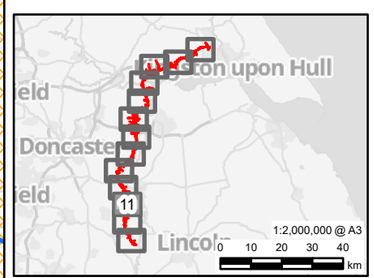
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- Order Limits
- 250 m Study Area

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Third Party Level of Development
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

Mineral Data
- Permitted Site
- Mineral Safeguarding Area (Sand and Gravel)



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N

Sheet 11 and 12

Sheet 12 and 13

4AF225

4AF230

4AF235

4AF240

Durham Hill

Cowsland Hill

Cowsland Farm

Cowsland Cottage

Gringley Grange

Castle Hill Wood

Grove

Grove Moor Farm

Oaklands Farm

Treswell Wood

Forewood

Forewood Farm

Stanhope Farm

South Leverton

Meeting House Lane

Church Street

Maythorn Farm or Maythorn House

Treswell

Cottam

Cottam Road

Cottam Lane

Green Lane

Rampton

Brambledene

Woodbeck

Bottom Woodbeck Farm

Heaton Part

Nether Headon

Last West Cottage

Headon

Upton

Hillside Farm

Askham Field

Wood Lane Farm

Hawksley Farm

Askham

Prospect Farm

Stokeham

Beardsall Farm

Hayes Farm

Fox Covert Farm

Laneham

Laneham Road

Drayton Road

Blackthorne Drain

North Beck

East Drayton

The Limes

Masonfield

Laneham Field Farm

Broading Farm

Holly Folly Farm

Rushmoor Farm

Ridgemede

Helonship

Lane

Doncaster

Lincoln

12

1:2,000,000 @ A3

0 10 20 30 40 km

0 0.5 1 1.5 2 Km

Legend

- Order Limits
- 250 m Study Area

Existing Overhead Line

- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Third Party Level of Development
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

Mineral Data

- Mineral Safeguarding Area (Sand and Gravel)

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N

Sheet 12 and 13

4AF240

4AF245

4AF250

4AF255

4AF260

Route Section E
Route Section F

Legend

- Order Limits
- 250 m Study Area
- Route Section

Existing Overhead Line

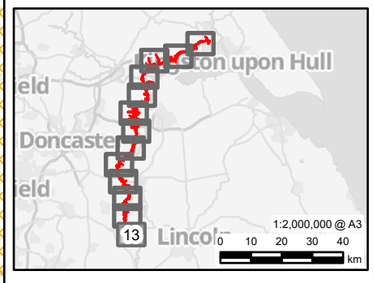
- 275 kV
- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Gantry
- Indicative New Lattice Pylon
- Third Party Level of Development
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

Mineral Data

- Permitted Site
- Mineral Safeguarding Area (Sand and Gravel)



0 0.5 1 1.5 2 Km

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Rev	Date	Description	GIS	Chk	App
0	14/10/2026	ENVIRONMENTAL STATEMENT	JG	DH	NC

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 1 - MINERAL SAFEGUARDING AREAS, MINERAL CONSULTATION ZONES AND MINERAL INFRASTRUCTURE

Creator:	Date:	Checker:	Date:	Approver:	Date:
JG	14/10/2026	DH	14/10/2026	NC	14/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
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