The Great Grid Upgrade

North Humber to High Marnham

NHHM-AEC-ONS-REP-0116

North Humber to High Marnham

Volume 6: Environmental Statement

Document 6.16.F3 Environmental Statement Figure 16.3 - Construction Vibration Assessment Outputs

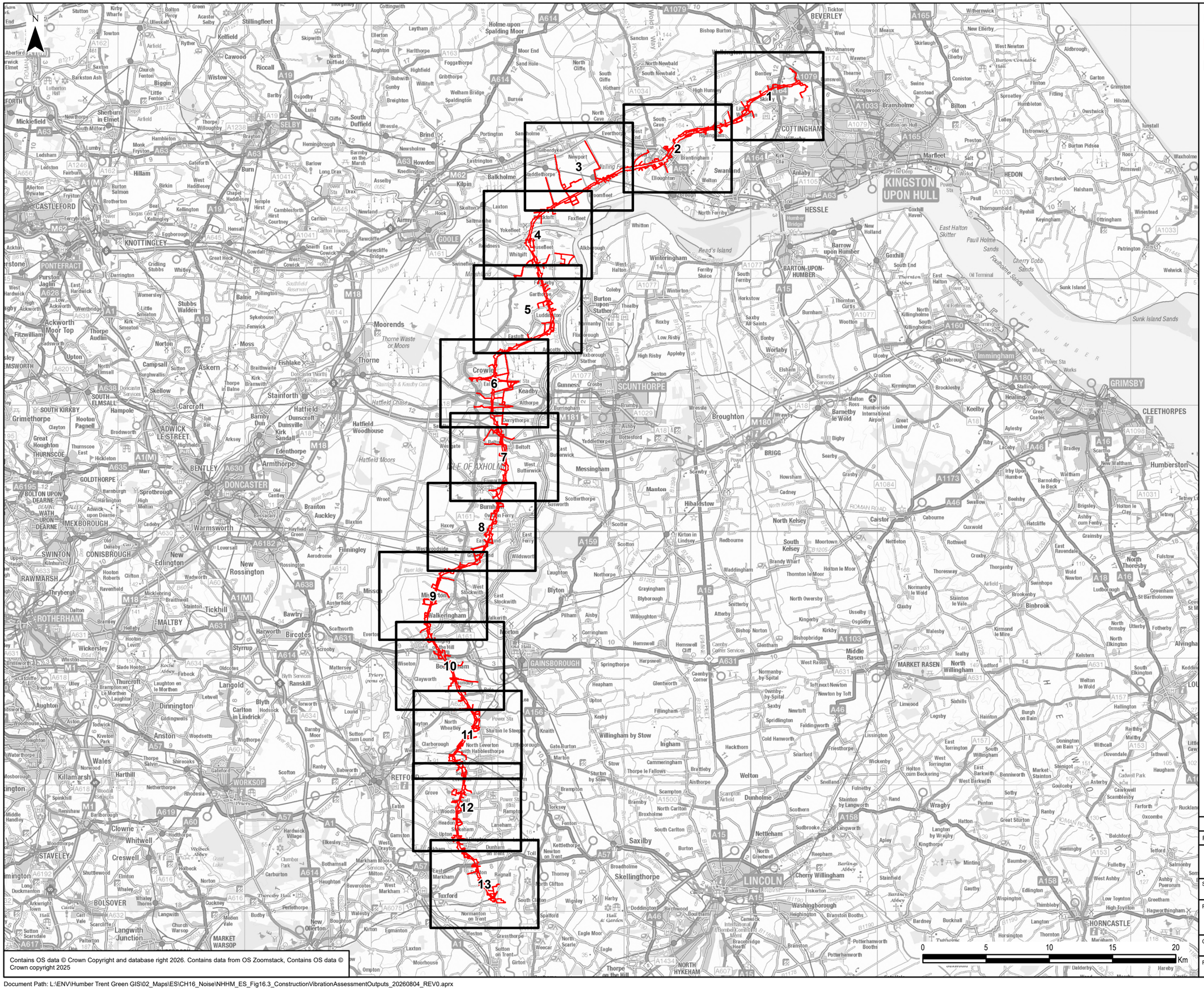
Final Issue A

October 2026

Planning Inspectorate Reference: EN020034

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 Regulation 5(2)(a)

nationalgrid



Legend

- Order Limits
- Map Sheet

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 16.3 - CONSTRUCTION VIBRATION ASSESSMENT OUTPUTS - KEY PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
ID	05/08/2026	JG	05/08/2026	DG	05/08/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
16.3	1:275,000	A3	KEY PLAN	0

Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\ES\CH16_Noise\NHHM_ES_Fig16.3_ConstructionVibrationAssessmentOutputs_20260804_REV0.aprx

Legend

- Order Limits
- 100 m Construction Vibration Study Area

Existing Overhead Line

- 275 kV
- 400 kV

Project Design Details

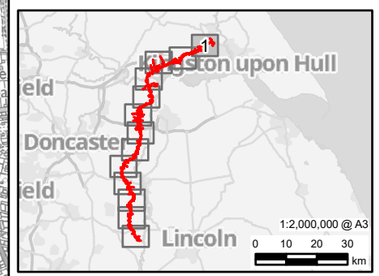
- Indicative New Overhead Line
- Indicative New Gantry
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected

Construction Vibration Output - Magnitude/Effect without Mitigation

- Negligible
- Small

4AF10
4AF15
4AF20
4AF25
4AF5
4ZQ90
4ZQ95
4ZQ100
4ZQ105
4ZQ110

Sheet 1 and 2



0 0.5 1 1.5 2 Km

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Legend

- Order Limits
- 100 m Construction Vibration 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

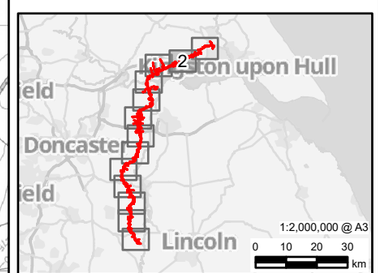
Construction Vibration Output - Magnitude/Effect without Mitigation

- Negligible
- Small

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

Sheet 1 and 2

Sheet 2 and 3



0 0.5 1 1.5 2 Km

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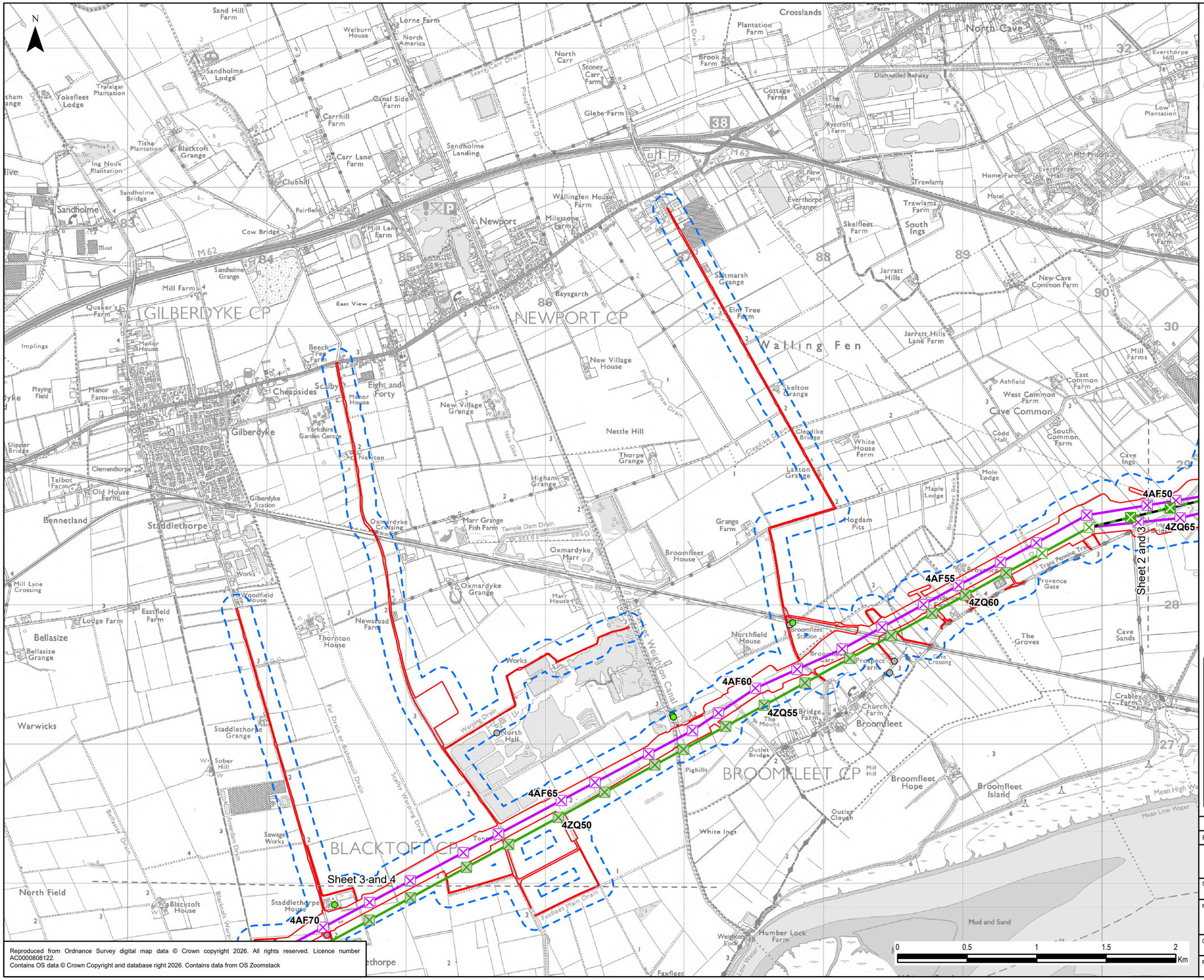
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Legend

- Order Limits
- 100 m Construction Vibration 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

Construction Vibration Output - Magnitude/Effect without Mitigation

- Negligible
- Small
- Medium (Significant Effect)

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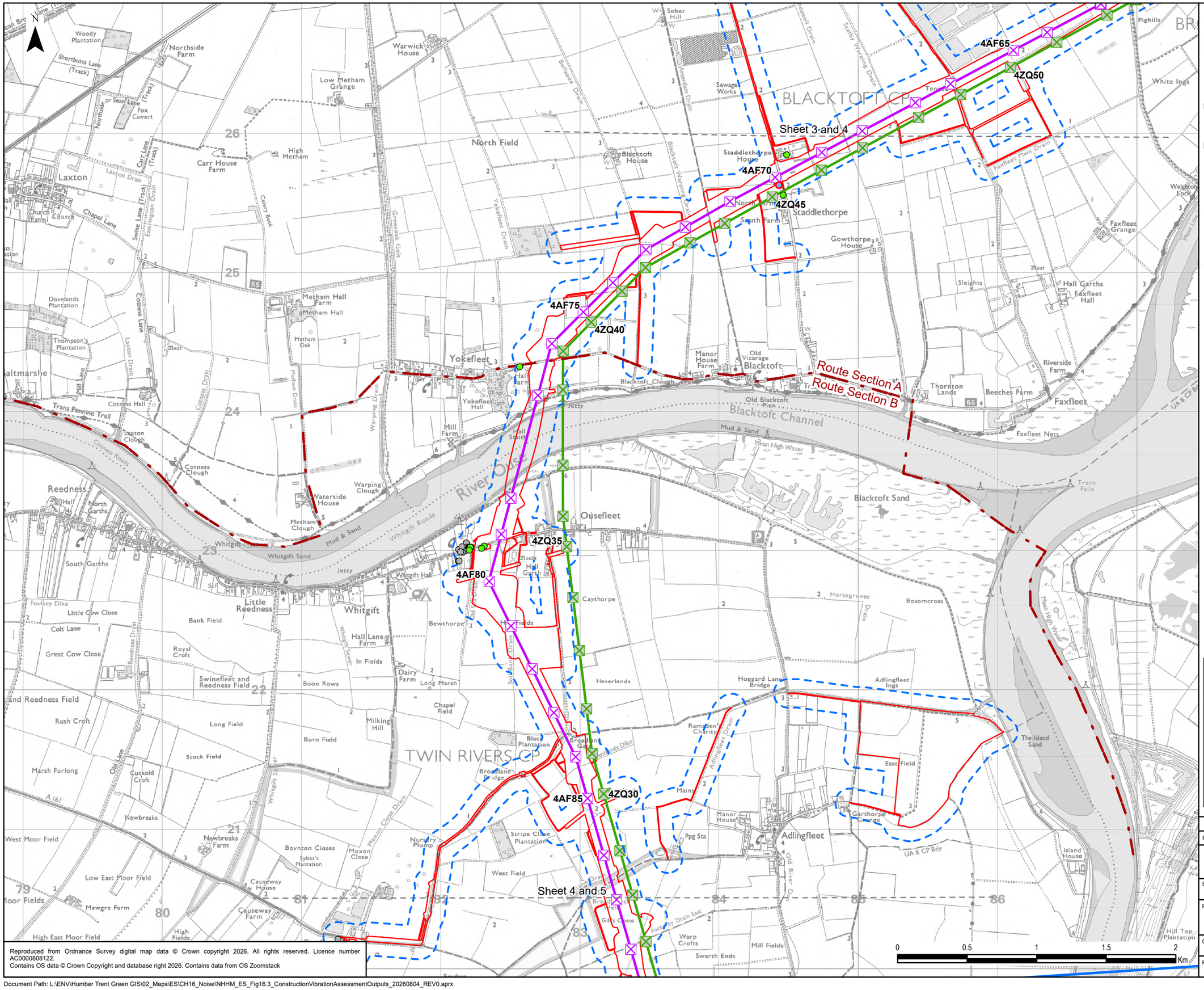
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Legend

- Order Limits
- 100 m Construction Vibration 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

Construction Vibration Output - Magnitude/Effect without Mitigation

- Negligible
- Small
- Medium (Significant Effect)

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

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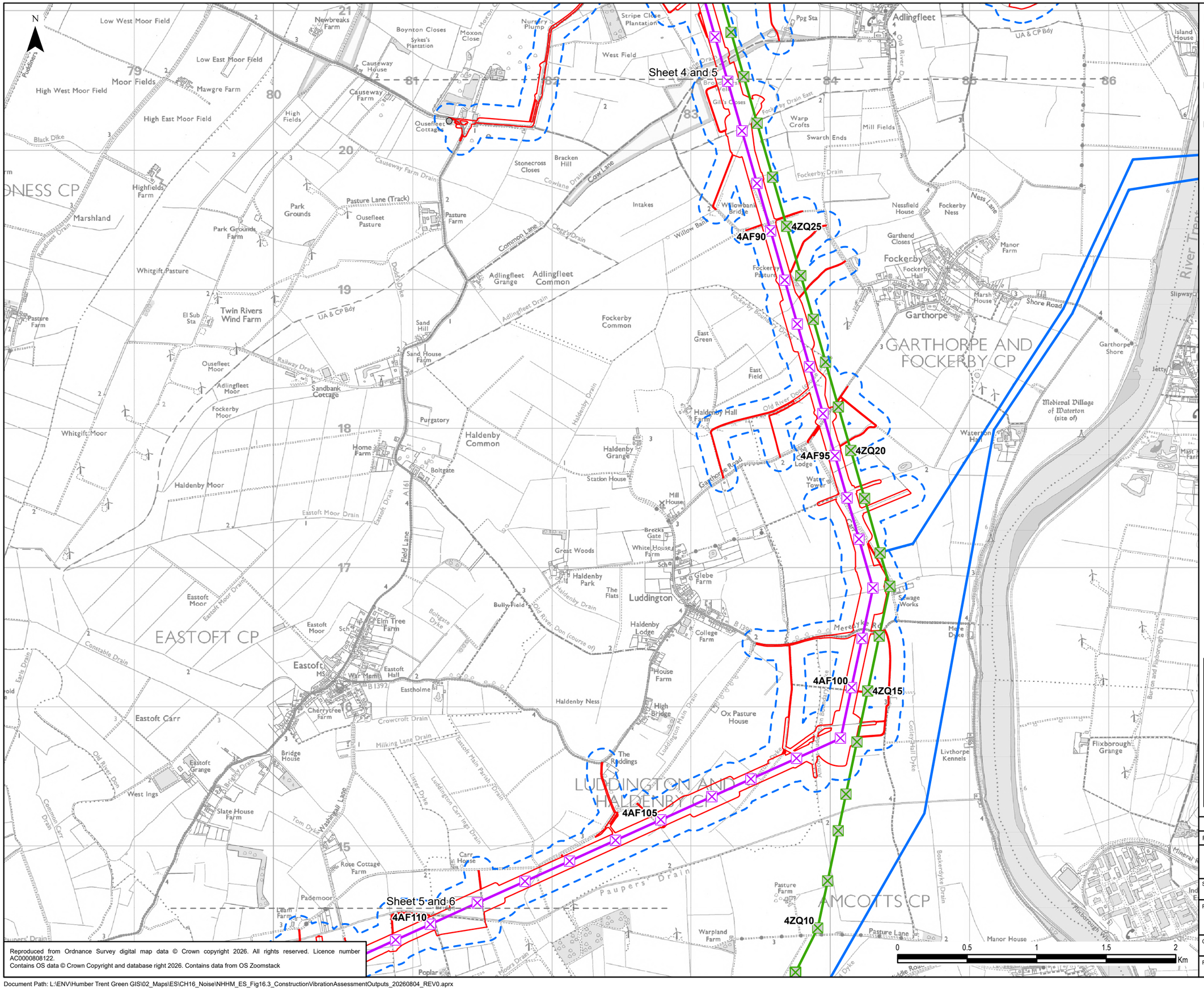
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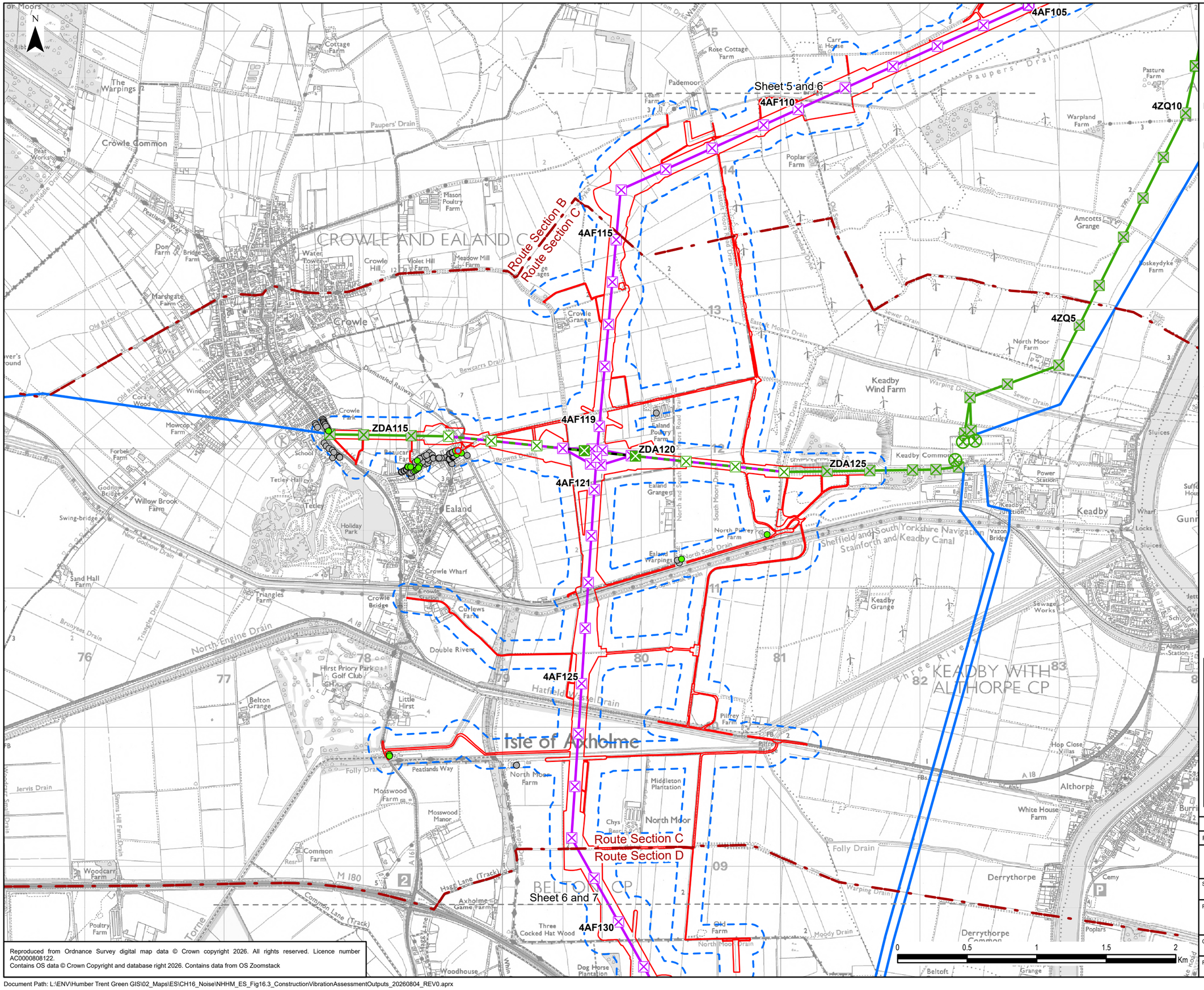
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Sheet 4 and 5
Sheet 5 and 6
4AF90
4ZQ25
4AF95
4ZQ20
4AF100
4ZQ15
4AF105
4AF110
4ZQ10
GARTHORPE AND FOCKERBY CP
LUDDINGTON AND HALDENBY CP
EASTOFT CP
AMCOTTS CP
Adlingfleet
Fockerby
Garthorpe
Luddington
Haldenby Common
Fockerby Common
Adlingfleet Common
Twin Rivers Wind Farm
Marshland
Whitgift Pasture
Whitgift Moor
Haldenby Moor
Eastoft Carr
Eastoft Moor
Low West Moor Field
Low East Moor Field
High West Moor Field
High East Moor Field
Moor Fields
Park Grounds
Ousefleet Pasture
Adlingfleet Moor
Fockerby Moor
Ousefleet Moor
Haldenby Park
Great Woods
Haldenby Grange
Haldenby Lodge
Haldenby Hall Farm
Garthorpe Shore
Flixborough Grange
Livthorpe Kennels
Ox Pasture House
Pasture Lane (Track)
Common Lane
Cow Lane
Causeway Farm Drain
Adlingfleet Drain
Fockerby Drain
Haldenby Drain
Old River Don (course of)
Eastoft Moor Drain
Railway Drain
Paupers Drain
Pasture Lane
Shore Road
Garthorpe Road
Ness Lane
Mill Fields
Swarth Ends
Warp Crofts
Gills Closes
Garthend Closes
Nessfield House
Fockerby Ness
Fockerby Hall
Manor Farm
Marsh House
Waterton Hall
Medieval Village of Waterton (site of)
Luddington Main Drain
Mere Dyke
Burton and Flixborough Drain
Boskerdyke Drain
Cottam Hall Dyke
Pasture Farm
Warpland Farm
Manor House
Haldenby Ness
Crowcroft Drain
Milking Lane Drain
Eastoft Main Parish Drain
Luddington Carr Ings Drain
Tom Dyke
Washingwell Lane
Field Lane
Boltgate Dyke
Eastoft Drain
Constable Drain
Old River Don
Common Carr Drain
Bridge House
Eastoft Grange
West Ings
Slate House Farm
Cherrytree Farm
Eastoft MS
War Mem
Eastoft Hall
Eastholme
Elm Tree Farm
Boltgate
Home Farm
Purgatory
Sand Hill
Sand House Farm
Sandbank Cottage
Rose Cottage Farm
Carr House
Pademoor
Leam Farm
Brecks Gate
White House Farm
Glebe Farm
College Farm
House Farm
High Bridge
The Raddings
The Flats
Bully Field
Station House
Mill House
Water Tower
Lodge
Sewage Works
Ousefleet Cottage
Newbreaks Farm
Causeway House
Causeway Farm
Mawgre Farm
High Fields
Highfields Farm
Pasture Farm
Intakes
Bracken Hill
Stonecross Closes
Boynton Closes
Sykes's Plantation
Moxon Close
Nursery Plump
Stripe Close Plantation
West Field
Willowbank Bridge
Willow Bank
Fockerby Pasture
East Green
East Field
Haldenby Hall
Old River Don (course of)
Fockerby Boundary Dyke
Ppg Sta
Island House
Slipway
Jetty
Mast Farm
Mineral
Ind Est
Pumping Station
Sch
Ch
Bridge
Dodd's Dyke
Black Dike
Reedness Drain
Earth Drain
Eastoft Moor Drain
Eastoft Drain
Listers Dyke
Moors Drain
Poplar
Great Woods
Pumping Station
Ch
Sch
Bridge
Ferry
Ind Est
Mineral
Slipway
Jetty
Mast Farm
Burton and Flixborough Drain
Mere Dyke
Boskerdyke Drain
Cottam Hall Dyke
Livthorpe Kennels
Flixborough Grange
Manor House
Pasture Farm
Warpland Farm
Pasture Lane
Paupers Drain



Legend

- Order Limits
- 100 m Construction Vibration 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

Construction Vibration Output - Magnitude/Effect without Mitigation
- Negligible
- Small
- Medium (Significant Effect)

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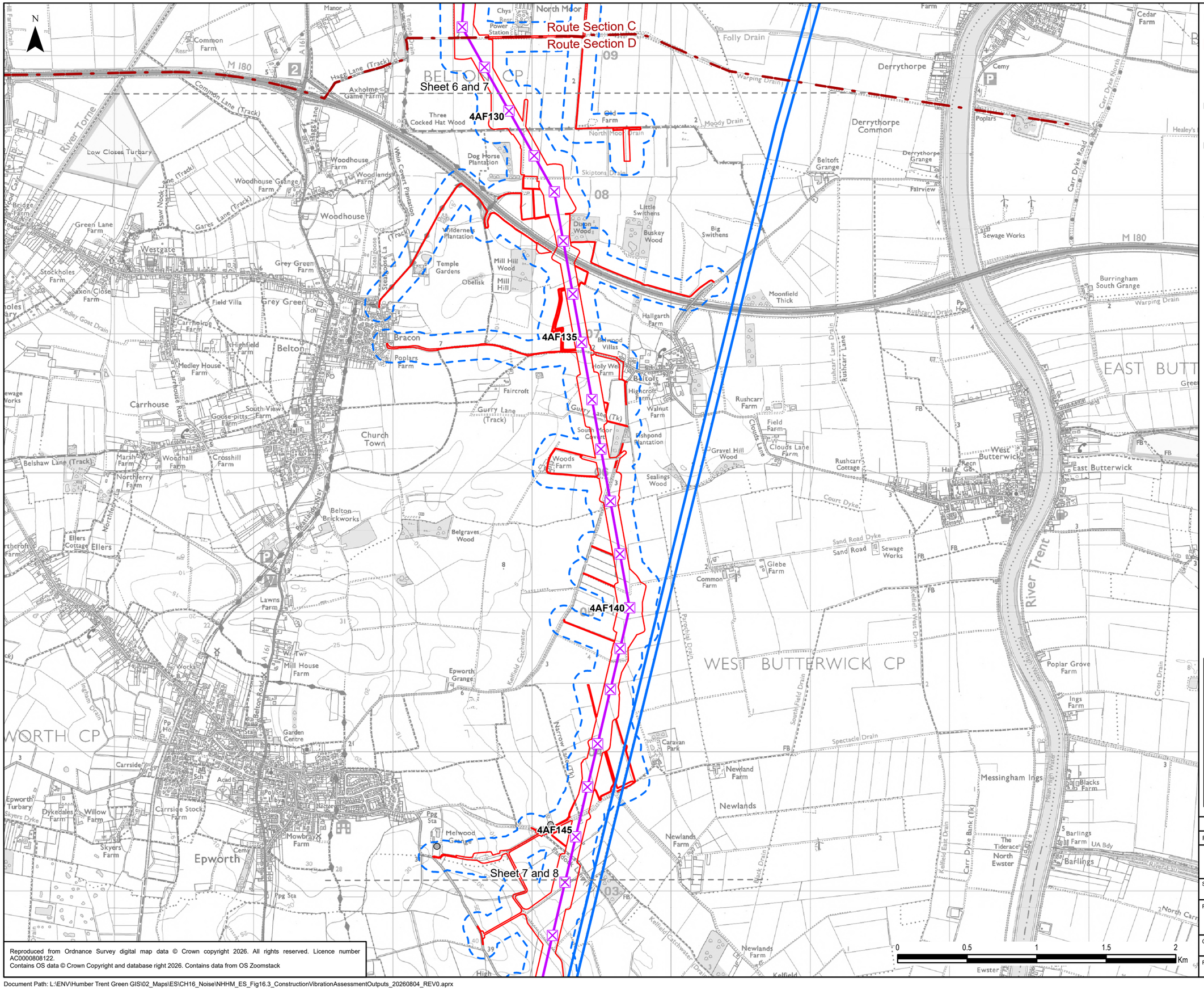
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 16.3 - CONSTRUCTION VIBRATION ASSESSMENT OUTPUTS

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Legend

- Order Limits
- 100 m Construction Vibration Study Area
- Route Section

Existing Overhead Line

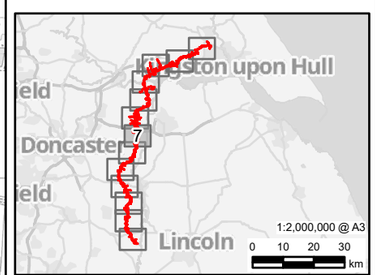
- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Construction Vibration Output - Magnitude/Effect without Mitigation

- Negligible



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Legend

- Order Limits
- 100 m Construction Vibration Study Area

Existing Overhead Line

- 400 kV

Project Design Details

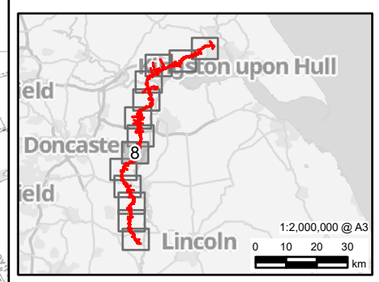
- Indicative New Overhead Line
- Indicative New Lattice Pylon

Construction Vibration Output - Magnitude/Effect without Mitigation

- Negligible
- Small
- Medium (Significant Effect)

4AF145
4AF150
4AF155
4AF160
4AF165

Sheet 7 and 8
Sheet 8 and 9



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Scheme: NORTH HUMBER TO HIGH MARNHAM

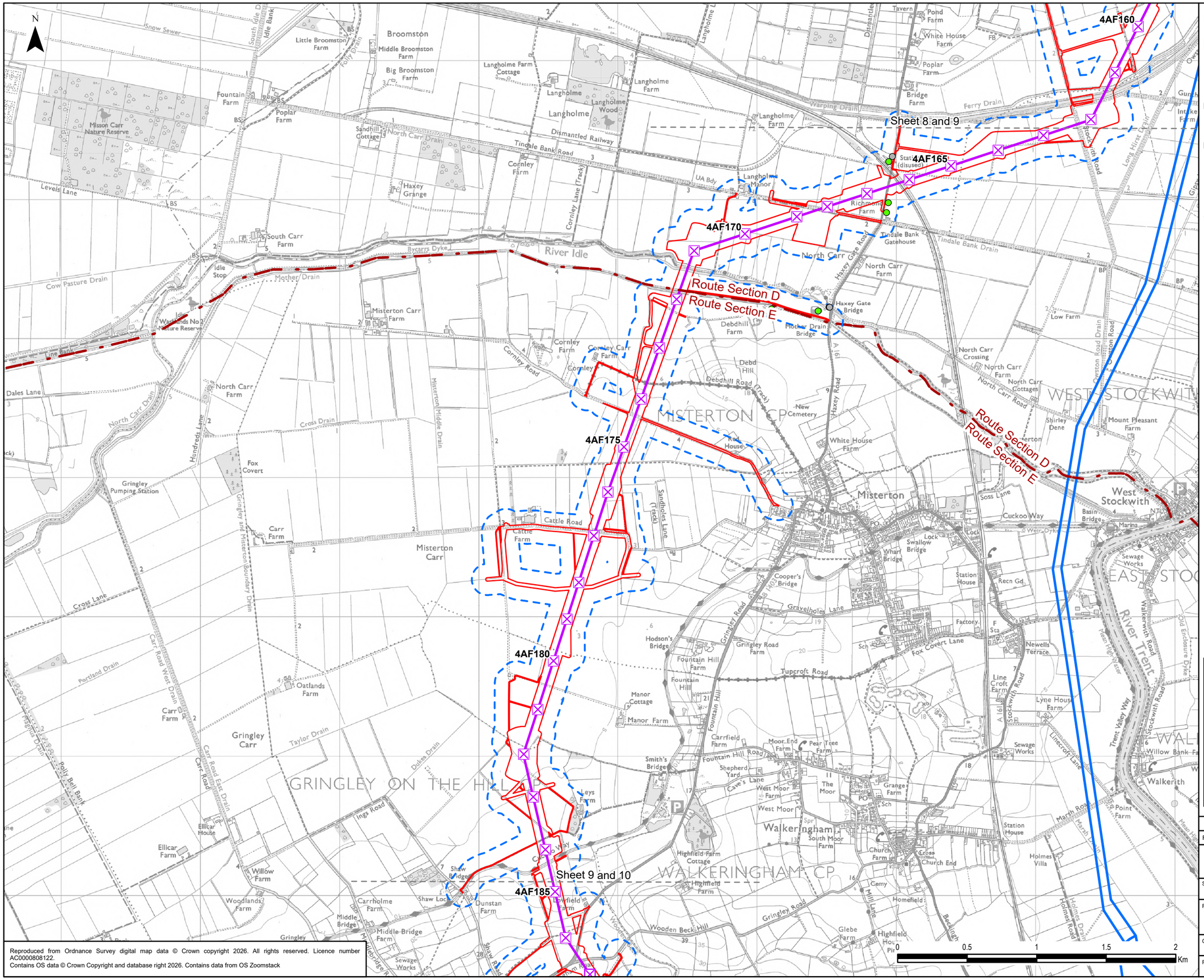
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Legend

- Order Limits
- 100 m Construction Vibration Study Area
- Route Section

Existing Overhead Line
- 400 kV

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

Construction Vibration Output - Magnitude/Effect without Mitigation
- Negligible
- Small

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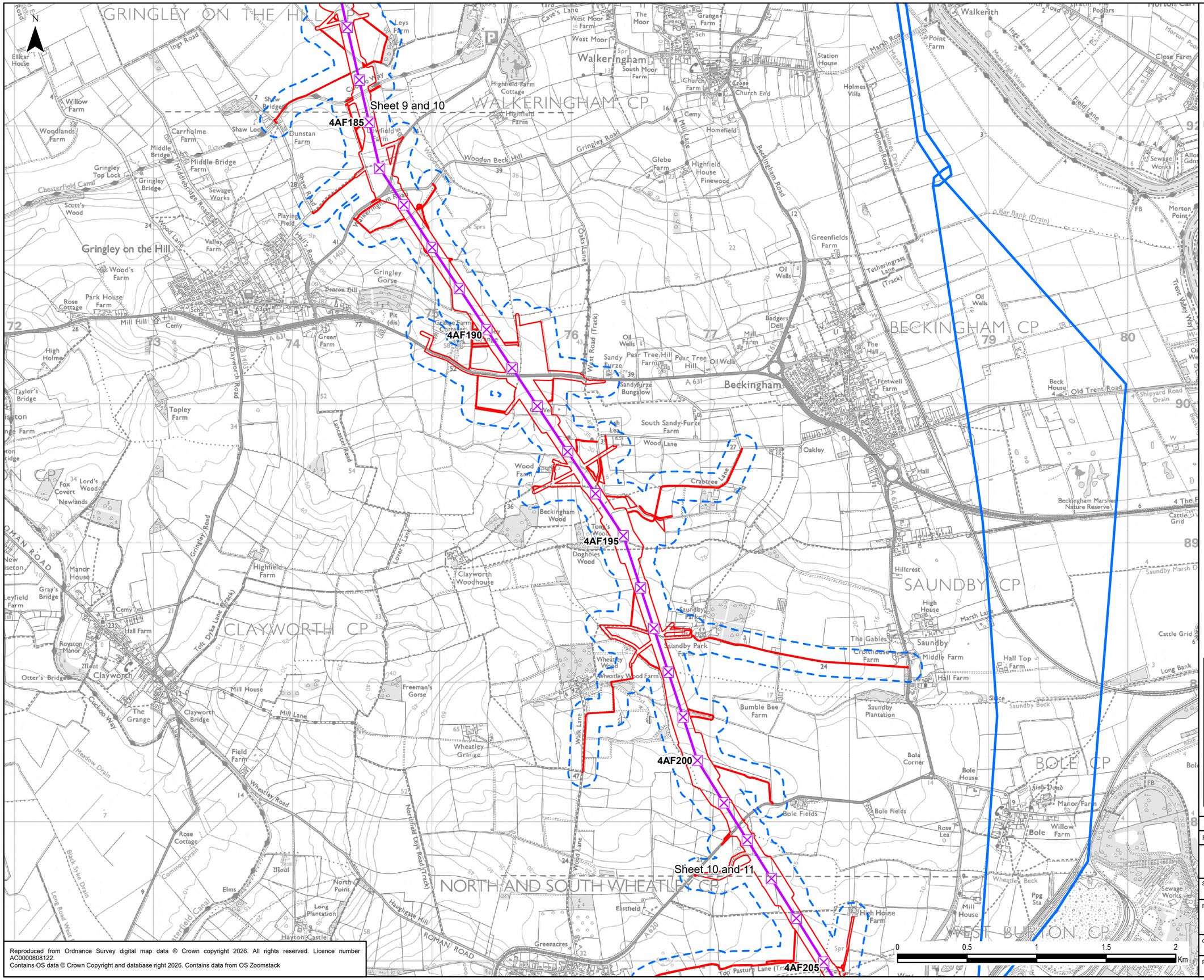
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Legend

- Order Limits
- 100 m Construction Vibration Study Area

Existing Overhead Line

- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

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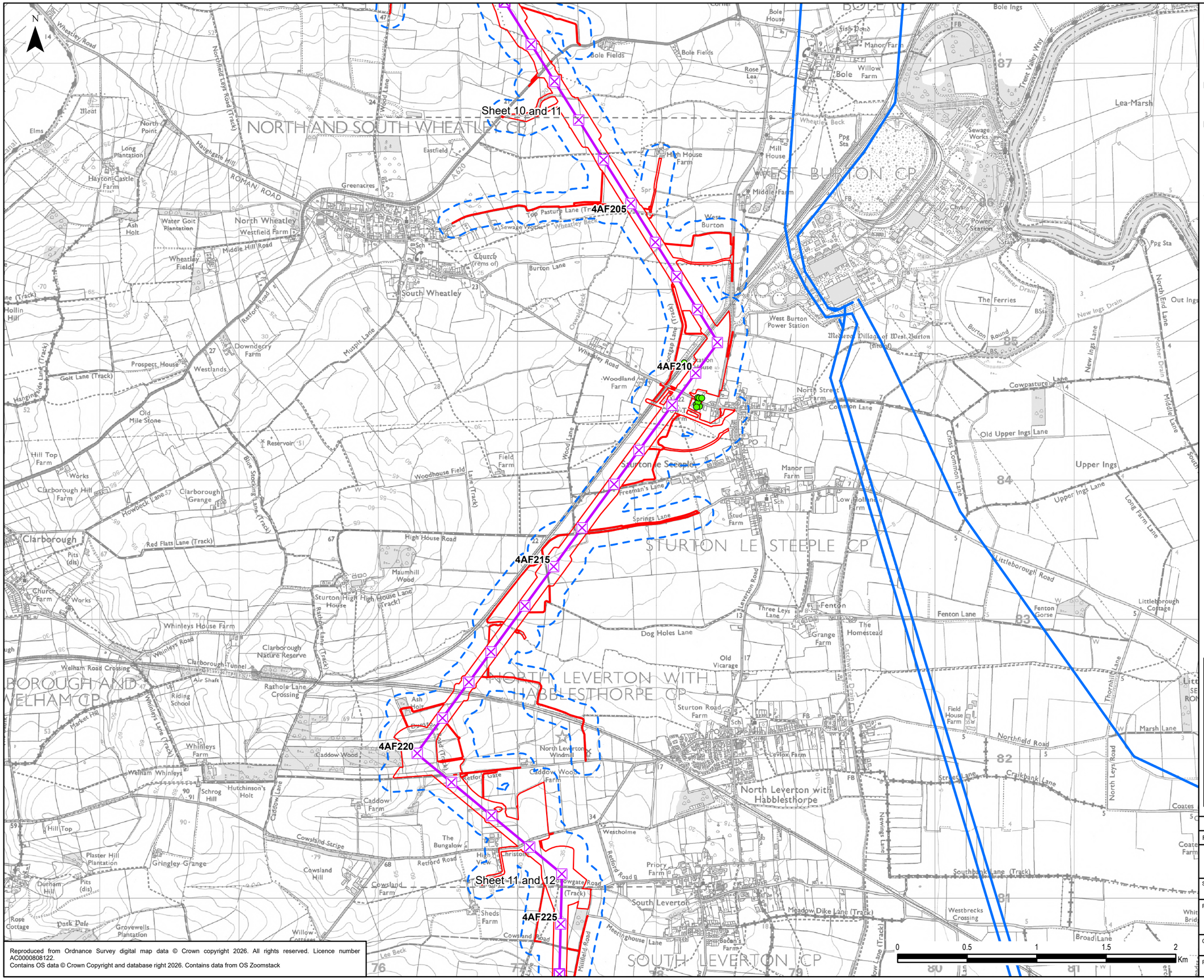
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Legend

- Order Limits
- 100 m Construction Vibration Study Area

Existing Overhead Line

- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Construction Vibration Output - Magnitude/Effect without Mitigation

- Small

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Sheet 11 and 12

Sheet 12 and 13

4AF225

4AF230

4AF235

4AF240

Legend

- Order Limits
- 100 m Construction Vibration Study Area

Existing Overhead Line

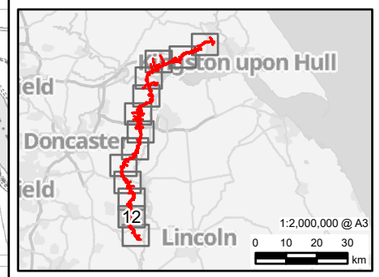
- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Construction Vibration Output - Magnitude/Effect without Mitigation

- Small



0 0.5 1 1.5 2 Km

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4AF240

Sheet 12 and 13

4AF245

4AF250

4AF255

4AF260

Route Section E

Route Section F

DUNHAM-ON-TRENT CP

RAGNALL CP

DARLTON CP

FLEDBOROUGH CP

MARNHAM CP

NEWTON

NORTH CLIFTON

SOUTH CLIFTON

Dunham-on-Trent

Ragnall

Darlton

Fledborough

High Marnham

Low Marnham

Normanton on Trent

East Drayton

Legend

- Order Limits
- 100 m Construction Vibration 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

Construction Vibration Output - Magnitude/Effect without Mitigation

- Small
- Medium (Significant Effect)

1:2,000,000 @ A3

0 10 20 30 km

Rev	Date	Description	GIS	Chk	App
0	05/08/2026	ENVIRONMENTAL STATEMENT	AR	JG	DG

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 16.3 - CONSTRUCTION VIBRATION ASSESSMENT OUTPUTS

Creator:	Date:	Checker:	Date:	Approver:	Date:
AR	05/08/2026	JG	05/08/2026	DG	05/08/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
16.3	1:25,000	A3	13 OF 13	0

0 0.5 1 1.5 2 Km

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