

Outer Dowsing Offshore Wind

Environmental Statement

Chapter 4 Site Selection and Consideration of Alternatives

Volume 2 Figures

Date: March 2024

Document Reference: 6.2.4.1

Pursuant to APFP Regulation: 5(2)(a)

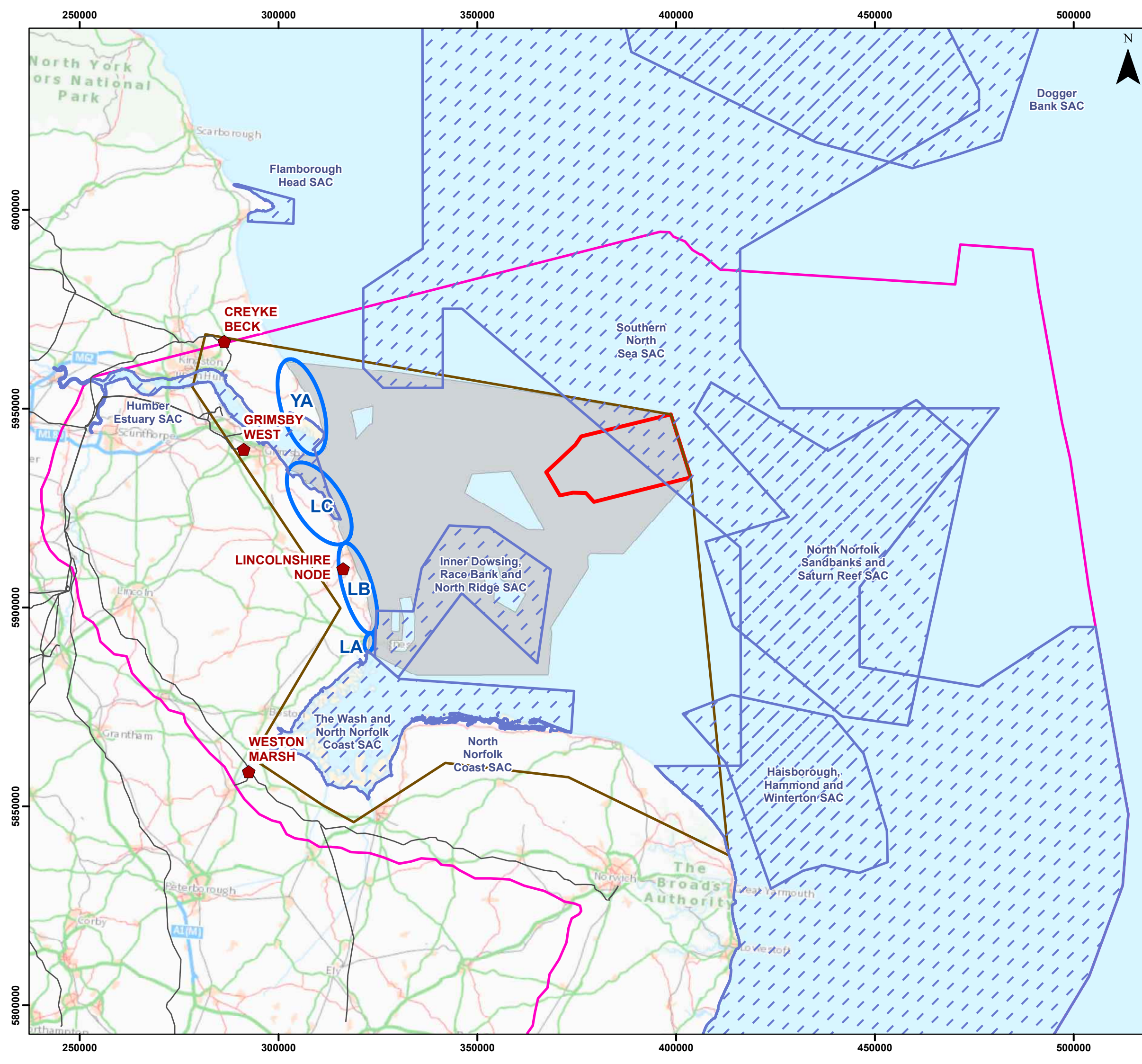
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Project:	Whole Wind Farm	Sub Project/Package:	Whole Asset			
Document Title or Description:	Chapter 4 Site Selection and Consideration of Alternatives Figures					
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Rev 1.0	March 2024	DCO Application	GoBe	GoBe	Shepherd and Wedderburn	ODOW

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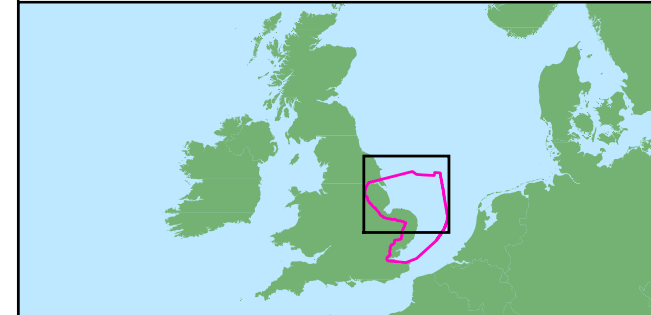
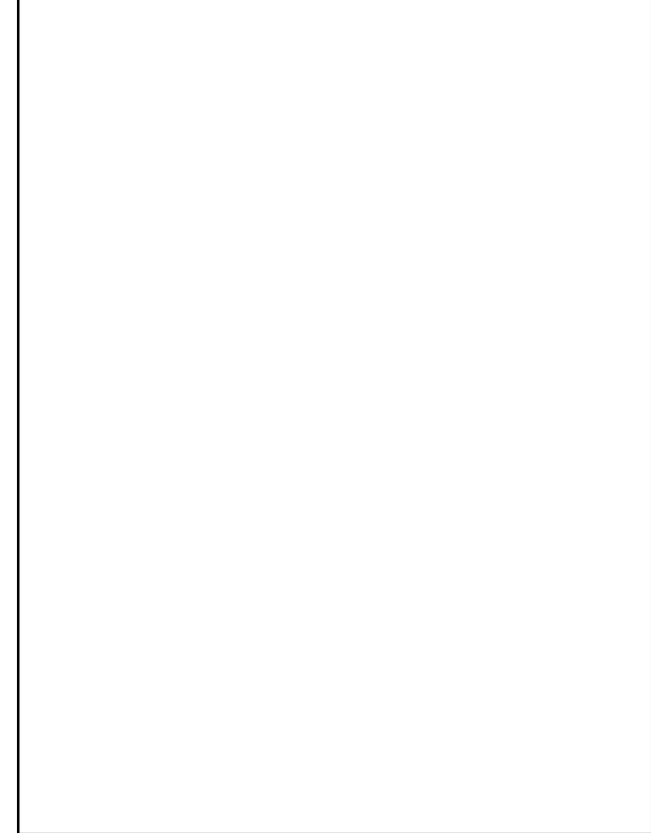
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Legend

- AfL Array Area
- ◆ Potential Onshore Substation Location
- Offshore ECC Area of Search
- Landfall Sector
- OTNR Area of Search
- Plan Level HRA Export Cable Region
- Special Areas of Conservation



A3 Page Size

Environmental Statement
 Offshore Area of Search and Potential Onshore Connection Locations

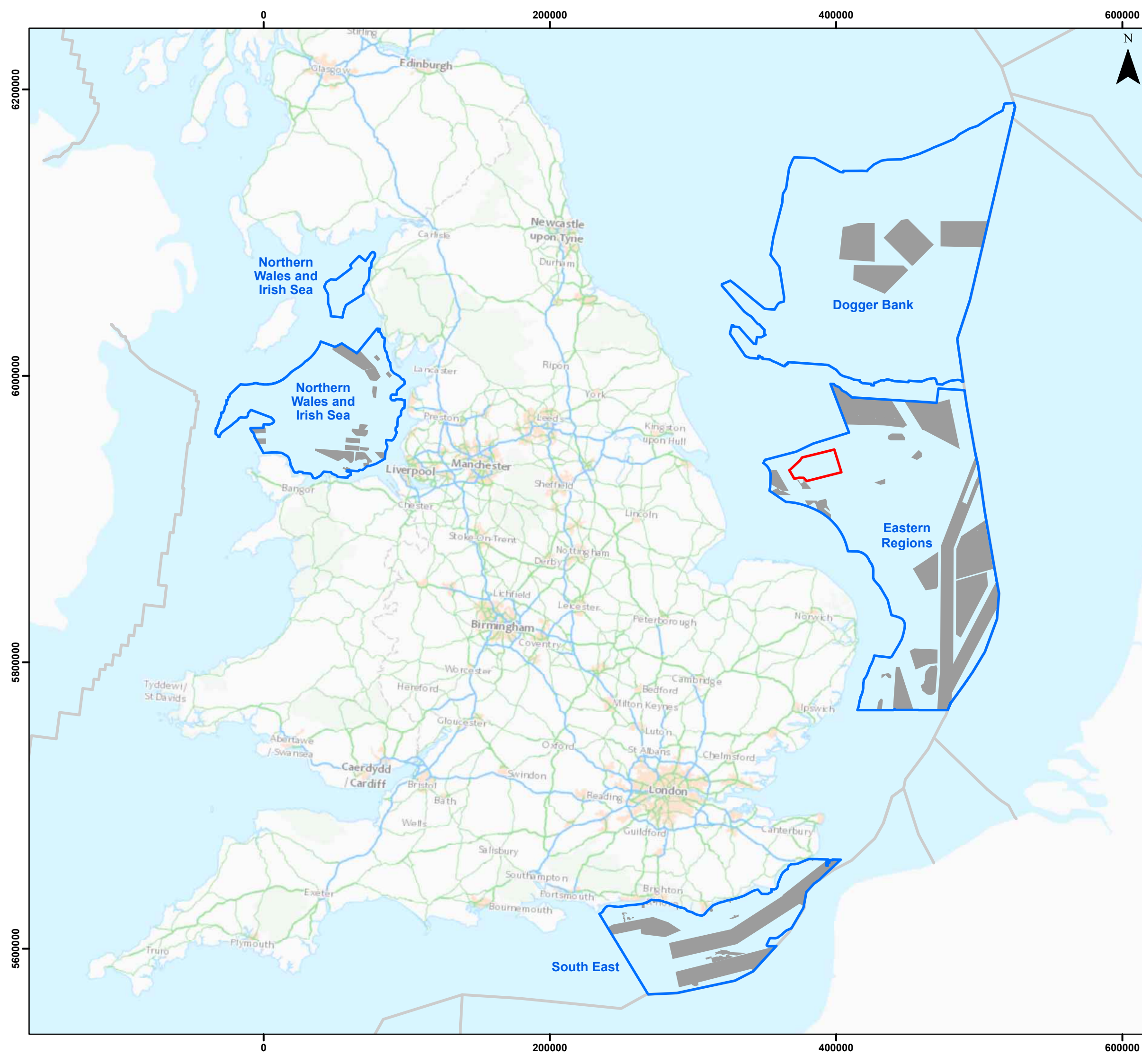


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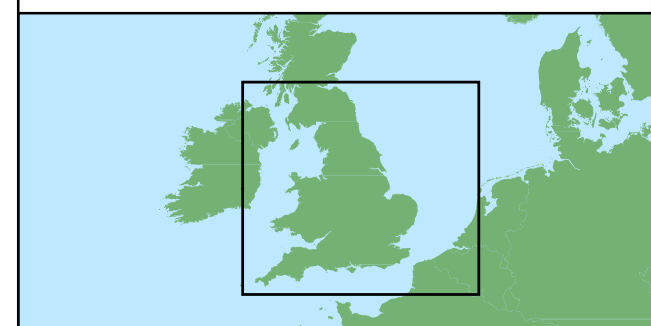
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Legend

- AfL Array Area
- TCE Round Four Bidding Areas
- TCE Round Four Hard Constraints
- EEZ Boundaries



Coordinate System: WGS 1984 UTM Zone 31N
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 Scale: 1:2,500,000 A3 Page Size

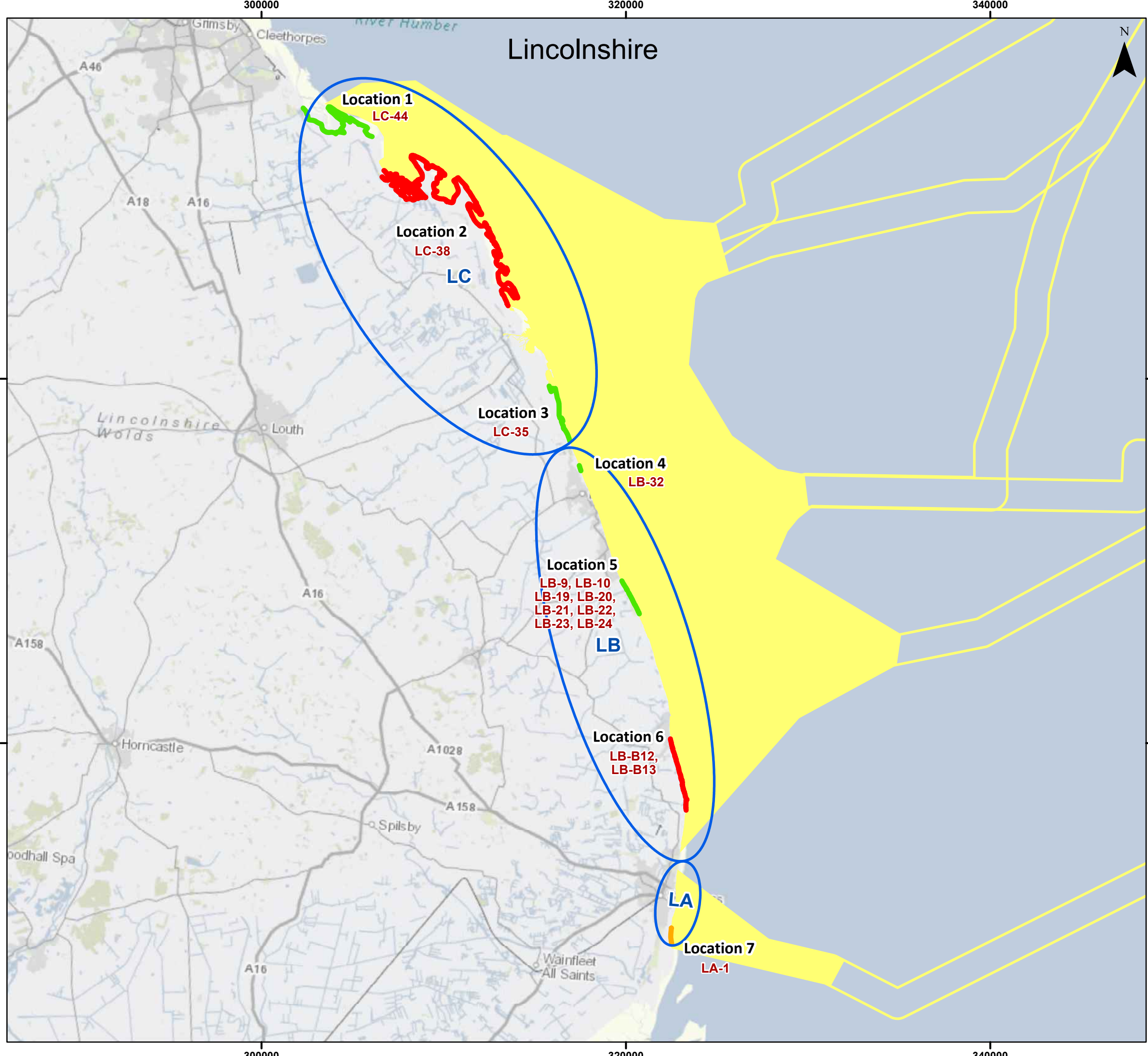
Environmental Statement
 Round Four Bidding Regions and the Project AfL Array Area
 Figure 4.2



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Legend

- Landfall Sector
- Offshore Cable Route Options with Fans

Landfall Location Recommendation

- Yes
- Maybe
- No



Coordinate System: WGS 1984 UTM Zone 31N

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Environmental Statement

Landfall Locations in the Context of the Landfall Assessment Regional Codes (and Offshore Route Numbers)

Figure 4.3

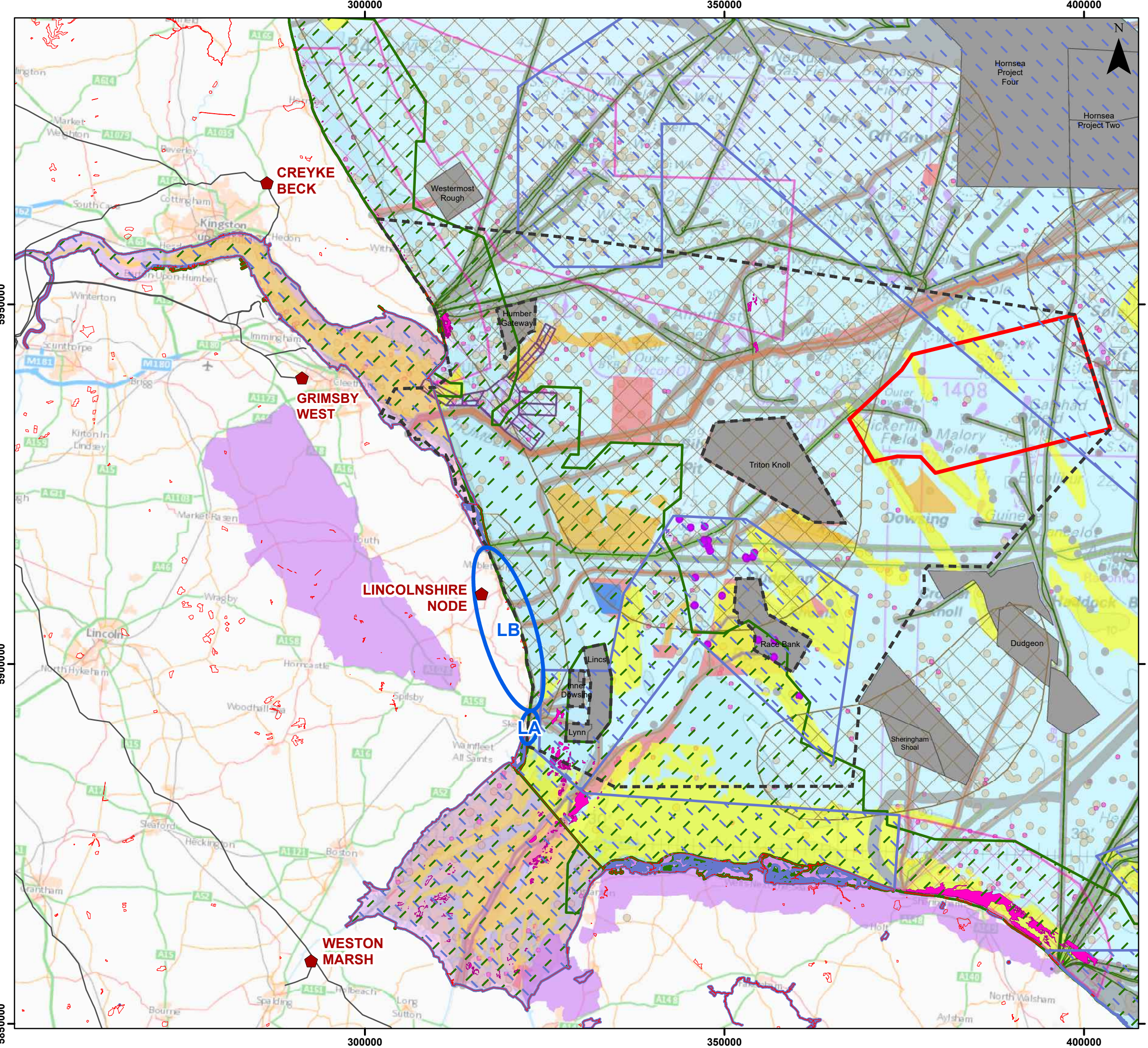


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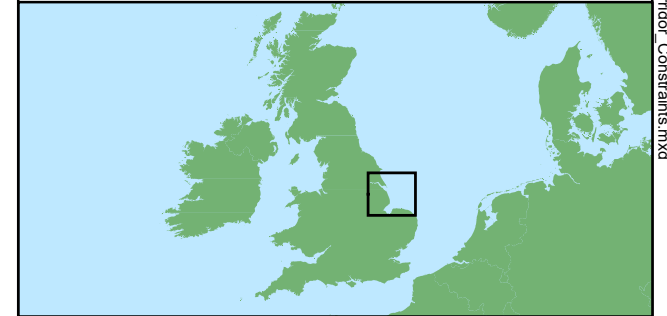
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- ### Legend
- AfL Array Area
 - ◆ Potential Onshore Substation Location
 - Offshore ECC Area of Search
 - Landfall Sector
 - Offshore Wind Farm
 - Infrastructure Constraint
 - Cable - Active
 - Cable - Not In Use
 - Pipeline - Active
 - Pipeline - Not In Use
 - Pipeline - Abandoned
 - Disposal Sites
 - Aggregates - Production Agreement Area
 - Aggregates - Exploration and Option Area
 - Ships Routing Measures Areas
 - Sites of Special Scientific Interest
 - Ramsar Site
 - Marine Conservation Zone
 - Areas of Outstanding Natural Beauty
 - Special Protection Areas
 - Special Areas of Conservation
 - Herring Spawning Grounds (1998)
 - Annex I Reef
 - Annex I additional areas managed as reef
 - Annex I Sandbank
 - Wreck with 500m Buffer
 - Subsea Obstruction



Coordinate System: WGS 1984 UTM Zone 31N
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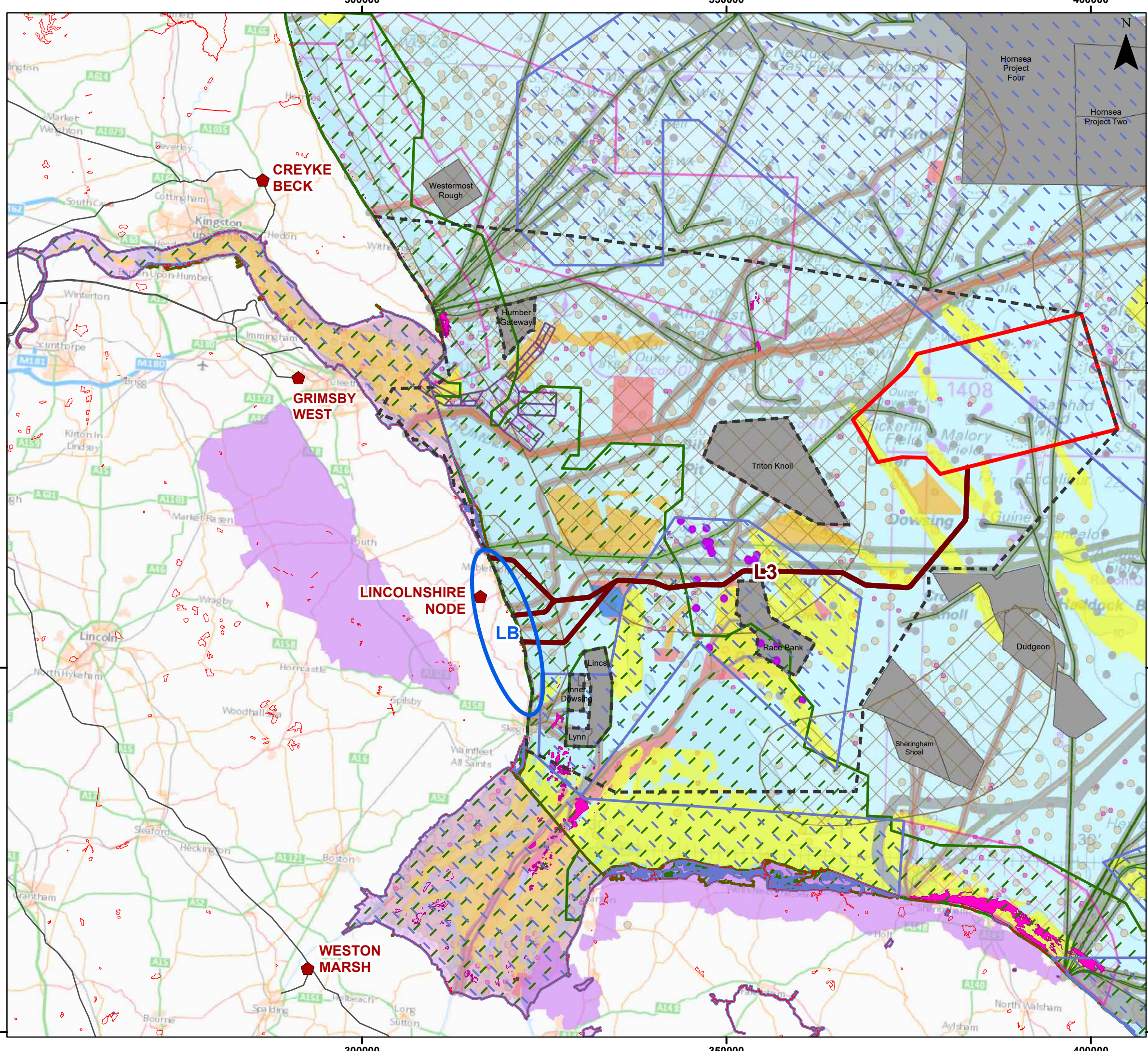
Offshore Study Area and Location of the Lincolnshire Coast Landfall Sectors "LA" and "LB" considered for the Weston Marsh and Lincolnshire Node Connection Options Figure 4.4



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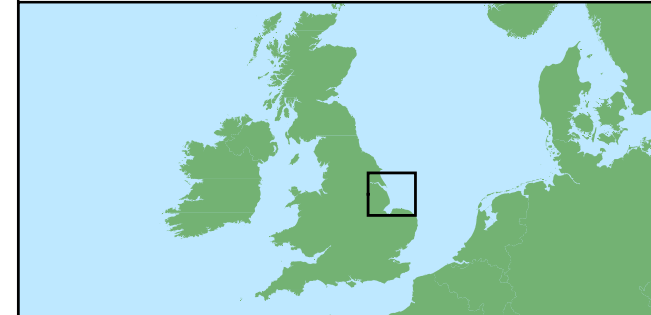
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Legend

- AfL Array Area
- Potential Onshore Substation Location
- Offshore ECC Area of Search
- Offshore Cable Route Options
- Landfall Sector
- Offshore Wind Farm
- Infrastructure Constraint
- Cable - Active
- Cable - Not In Use
- Pipeline - Active
- Pipeline - Not In Use
- Pipeline - Abandoned
- Disposal Sites
- Aggregates - Production Agreement Area
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Environmental Statement
 Proposed Export Cable Route Option L3
 Connecting to Landfall Sector LB

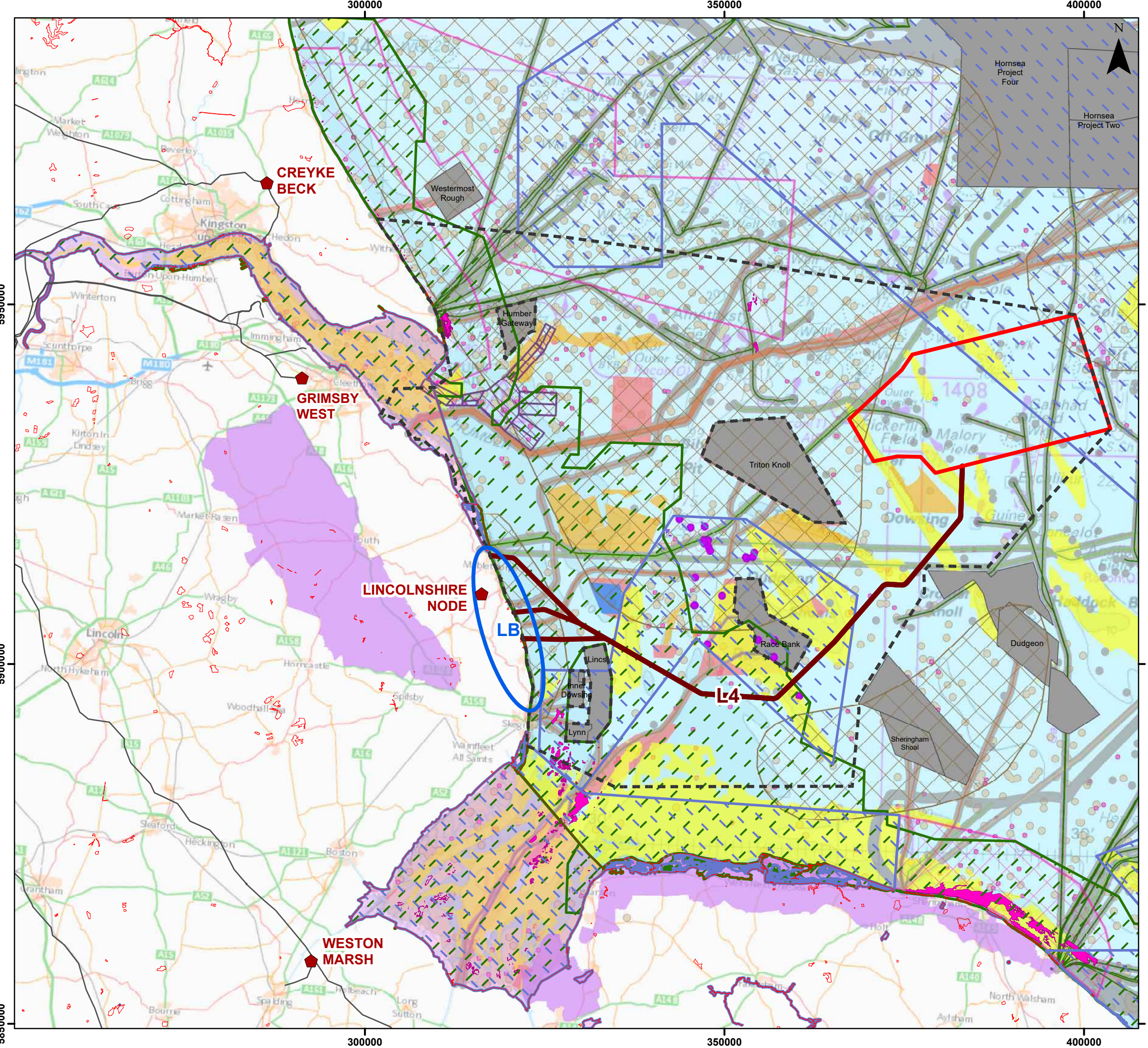
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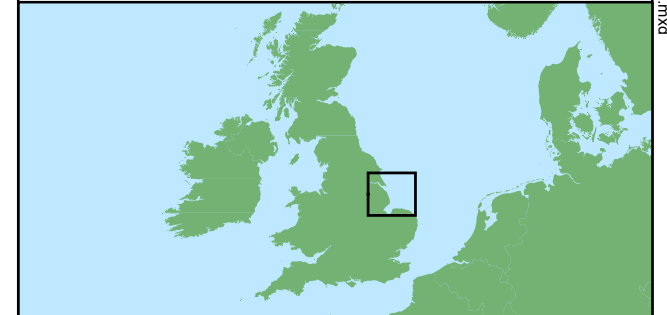
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Legend

- AfL Array Area
- ◆ Potential Onshore Substation Location
- Offshore ECC Area of Search
- Offshore Cable Route Options
- Landfall Sector
- Offshore Wind Farm
- Infrastructure Constraint
- Cable - Active
- Cable - Not In Use
- Pipeline - Active
- Pipeline - Not In Use
- Pipeline - Abandoned
- Disposal Sites
- Aggregates - Production Agreement Area
- Aggregates - Exploration and Option Area
- Ships Routing Measures Areas
- Sites of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Areas of Outstanding Natural Beauty
- Special Protection Areas
- Special Areas of Conservation
- Herring Spawning Grounds (1998)
- Annex I Reef
- Annex I additional areas managed as reef
- Annex I Sandbank
- Wreck with 500m Buffer
- Subsea Obstruction



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Environmental Statement
 Proposed Export Cable Route Option L4
 Connecting to Landfall Sector LB
 Figure 4.6

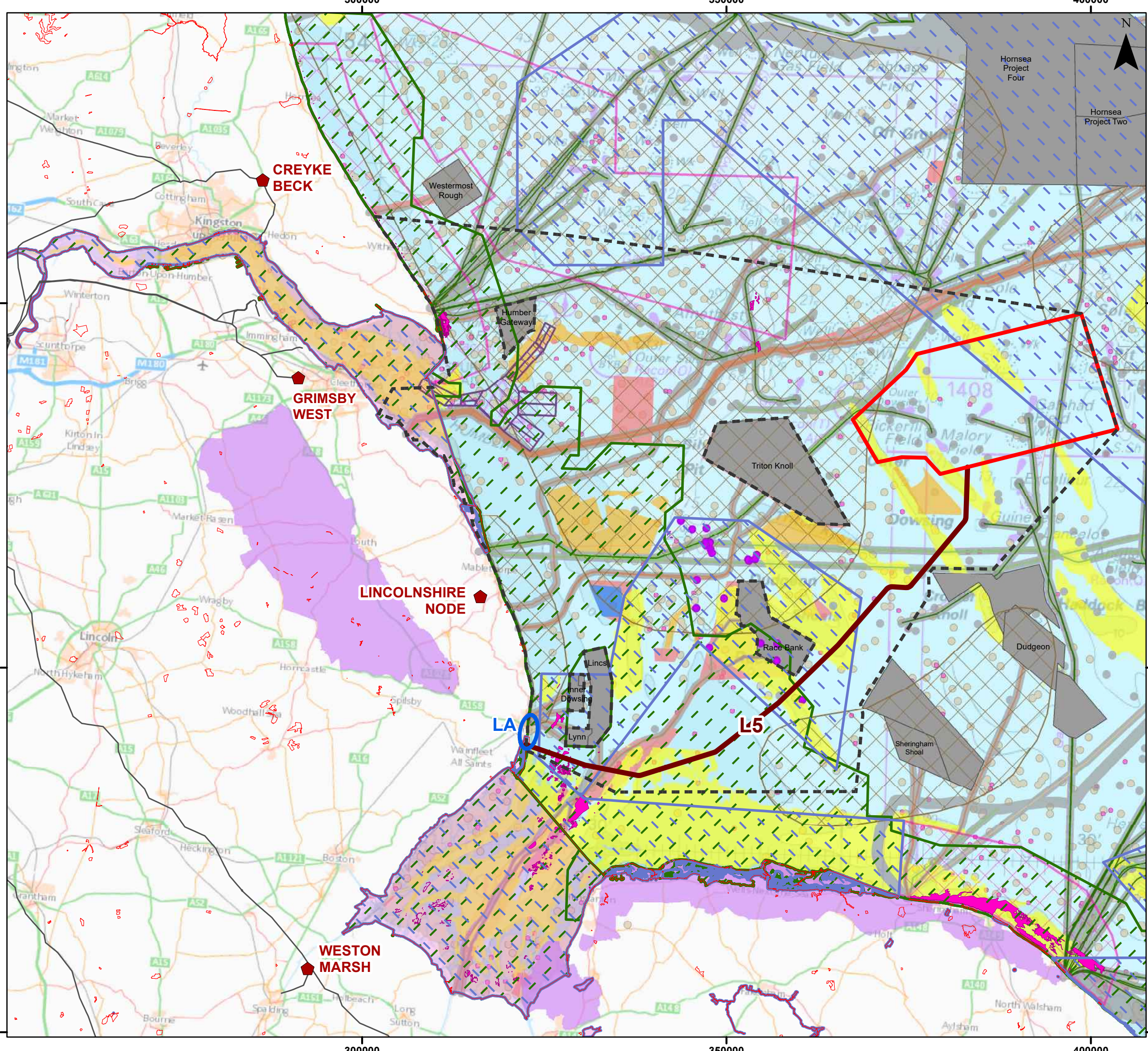




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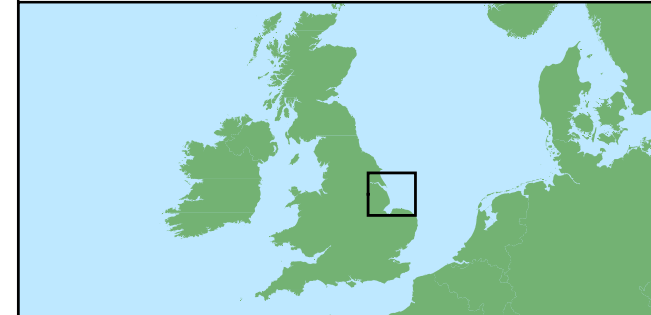
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Legend

- AfL Array Area
- ◆ Potential Onshore Substation Location
- Offshore ECC Area of Search
- Offshore Cable Route Options
- Landfall Sector
- Offshore Wind Farm
- Infrastructure Constraint
- Cable - Active
- Cable - Not In Use
- Pipeline - Active
- Pipeline - Not In Use
- Pipeline - Abandoned
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- Wreck with 500m Buffer
- Subsea Obstruction



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Environmental Statement
 Proposed Export Cable Route Option L5
 Connecting to Landfall Sector LA
 Figure 4.7

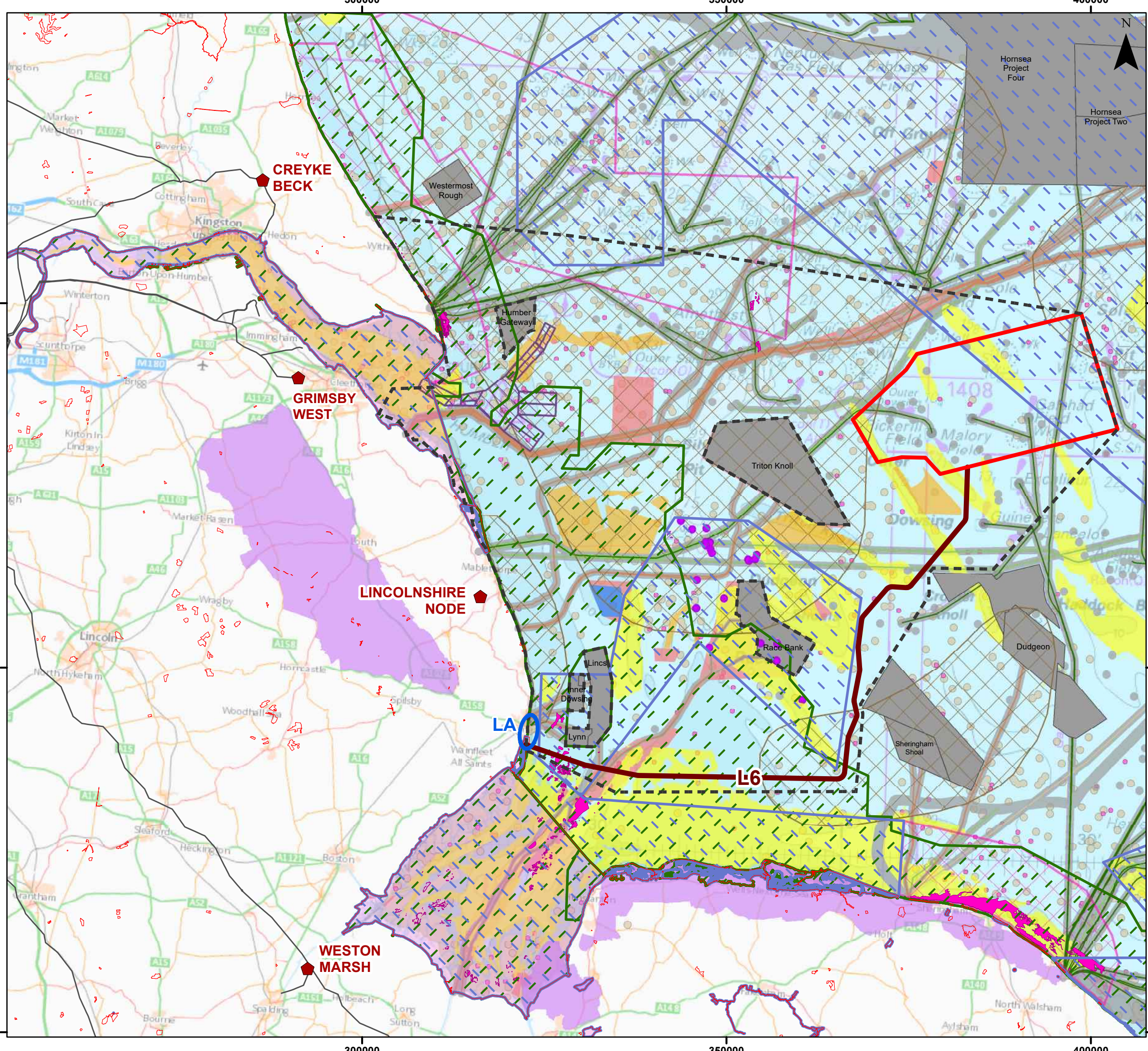




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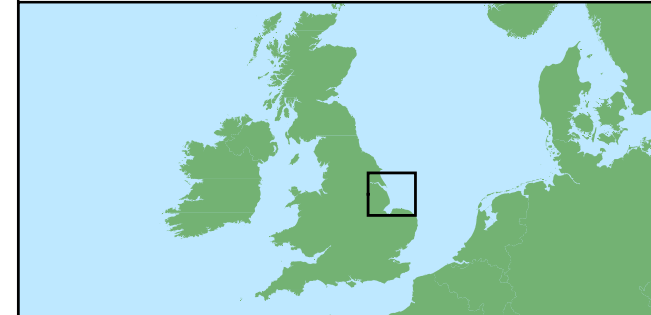
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Legend

- AfL Array Area
- ◆ Potential Onshore Substation Location
- Offshore ECC Area of Search
- Offshore Cable Route Options
- Landfall Sector
- Offshore Wind Farm
- Infrastructure Constraint
- Cable - Active
- Cable - Not In Use
- Pipeline - Active
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- Wreck with 500m Buffer
- Subsea Obstruction



Coordinate System: WGS 1984 UTM Zone 31N
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Environmental Statement
 Proposed Export Cable Route Option L6
 Connecting to Landfall Sector LA
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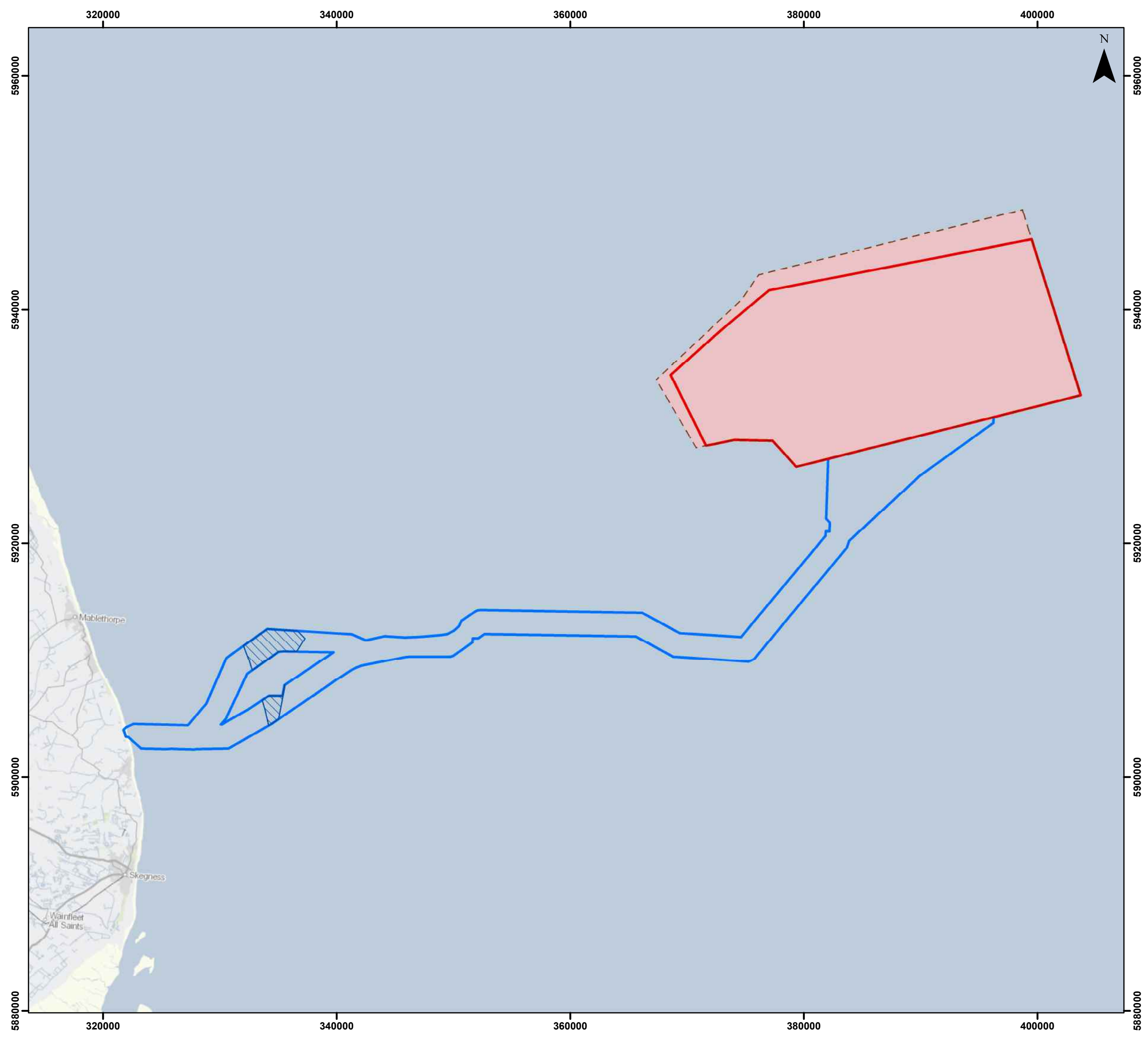




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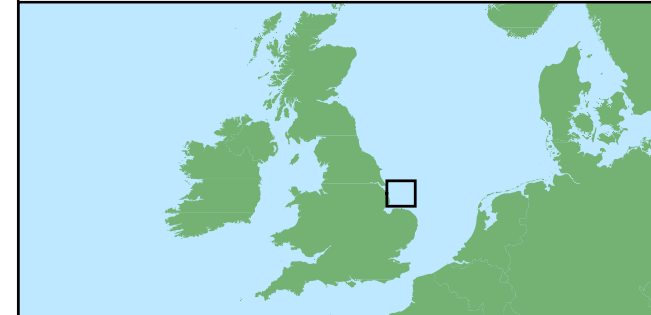
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Legend

- Array Area
- AfL Array Area
- Offshore Export Cable Corridor
- ORCP Area



Coordinate System: WGS 1984 UTM Zone 31N

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Environmental Statement

AfL Area and Array Area

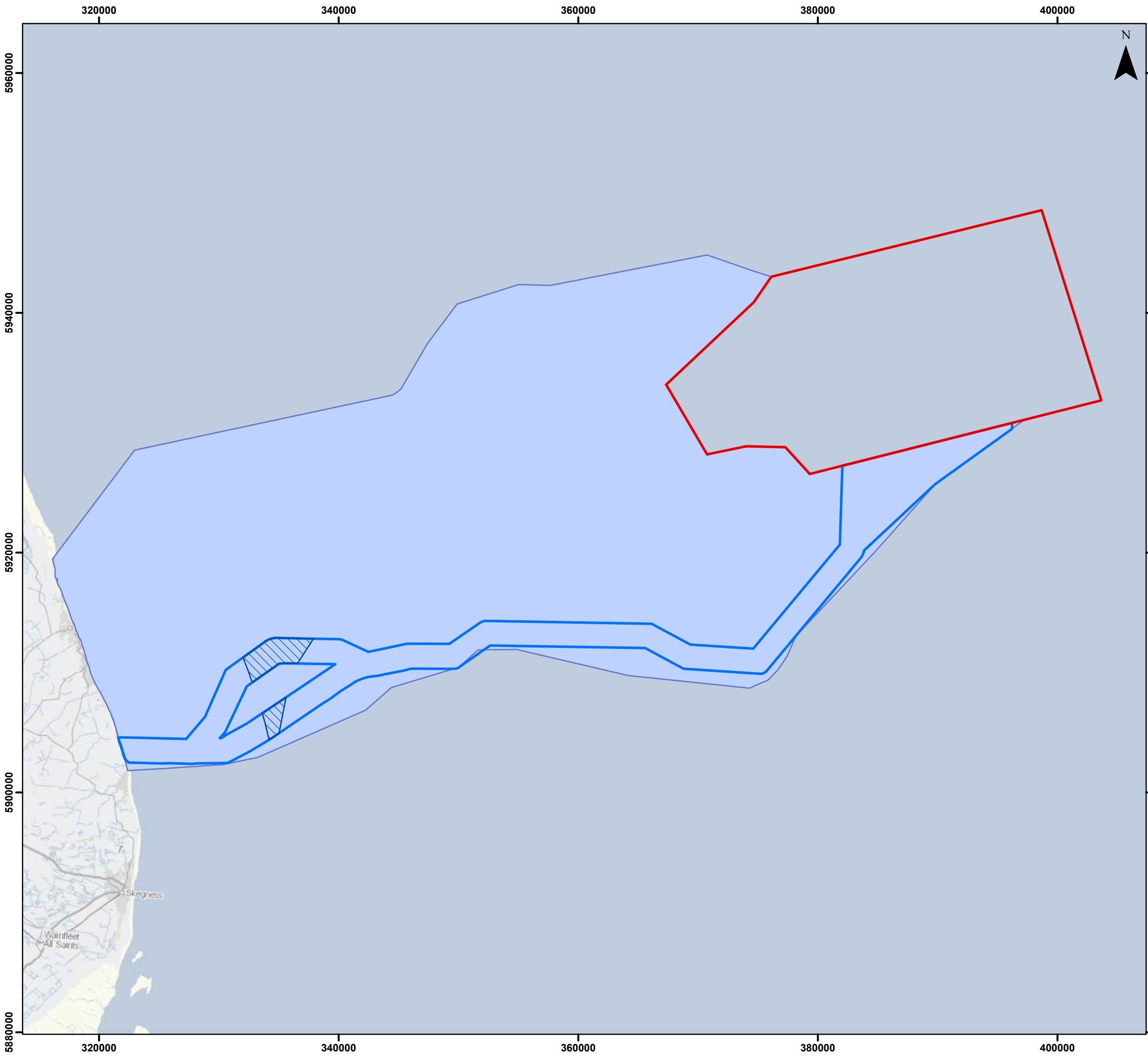
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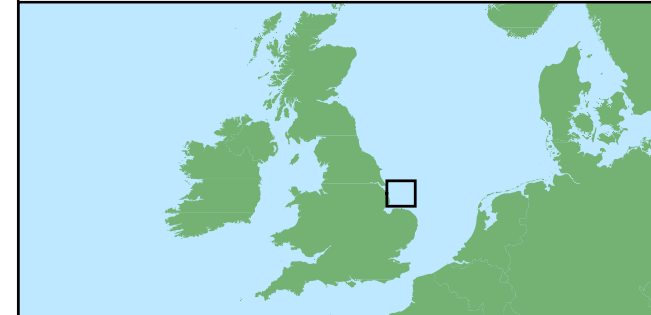
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Legend

- AfL Array Area
- Offshore Export Cable Corridor (PEIR)
- ORCP Search Area (PEIR)
- Offshore ECC AoS (Scoping)



Coordinate System: WGS 1984 UTM Zone 31N

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Environmental Statement

Refined Export Cable Route (PEIR)

Figure 4.10

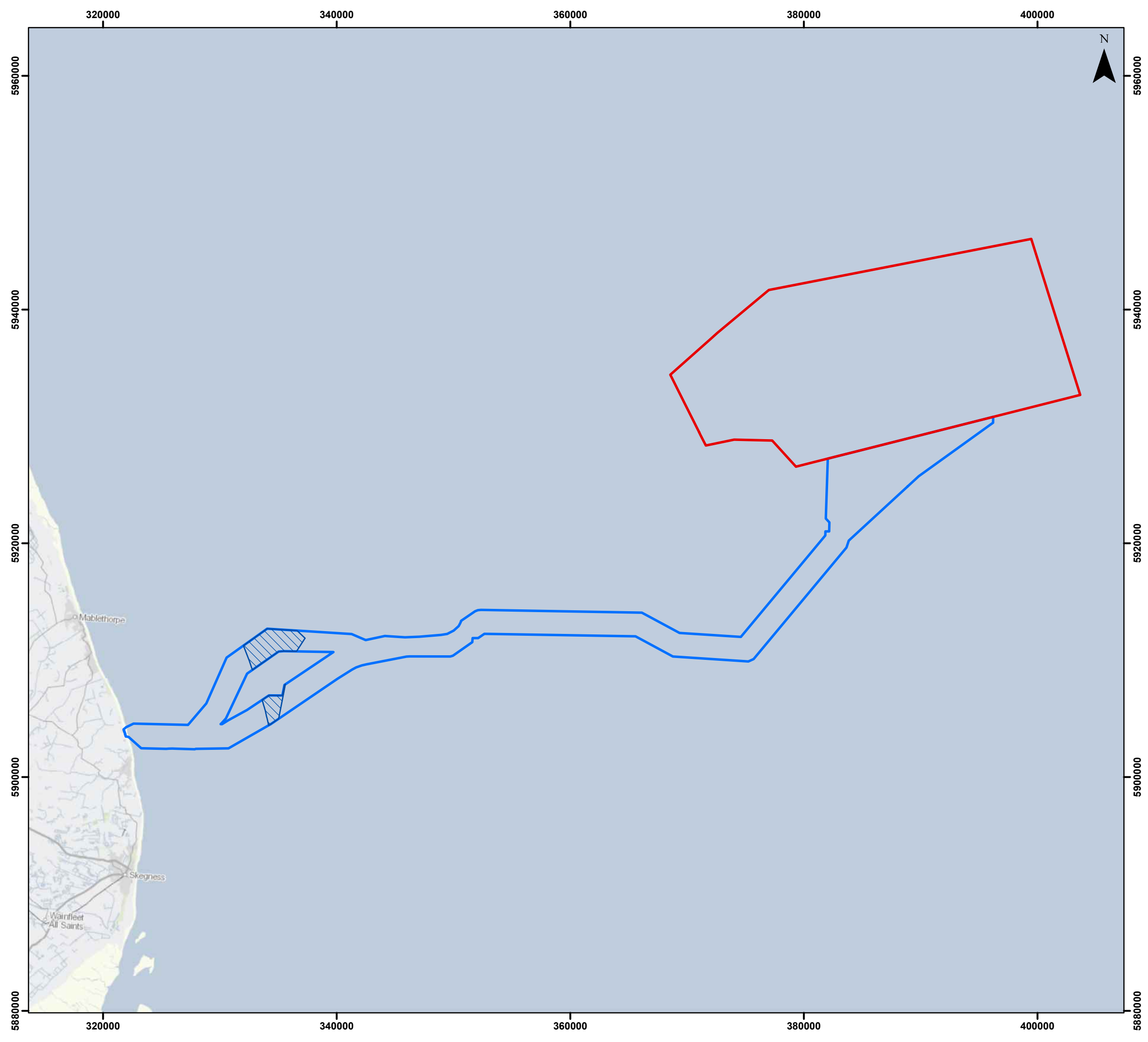


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Legend

- Array Area
- Offshore Export Cable Corridor
- ORCP Area

Coordinate System: WGS 1984 UTM Zone 31N

0 10 20 km

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Environmental Statement

Refined Export Cable Route and ORCP

Figure 4.11

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Legend

- Array Area
- Offshore Export Cable Corridor
- ORCP Area
- Artificial Nesting Structure Area

Coordinate System: WGS 1984 UTM Zone 31N


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Environmental Statement

Refined Artificial Nesting Structure Areas

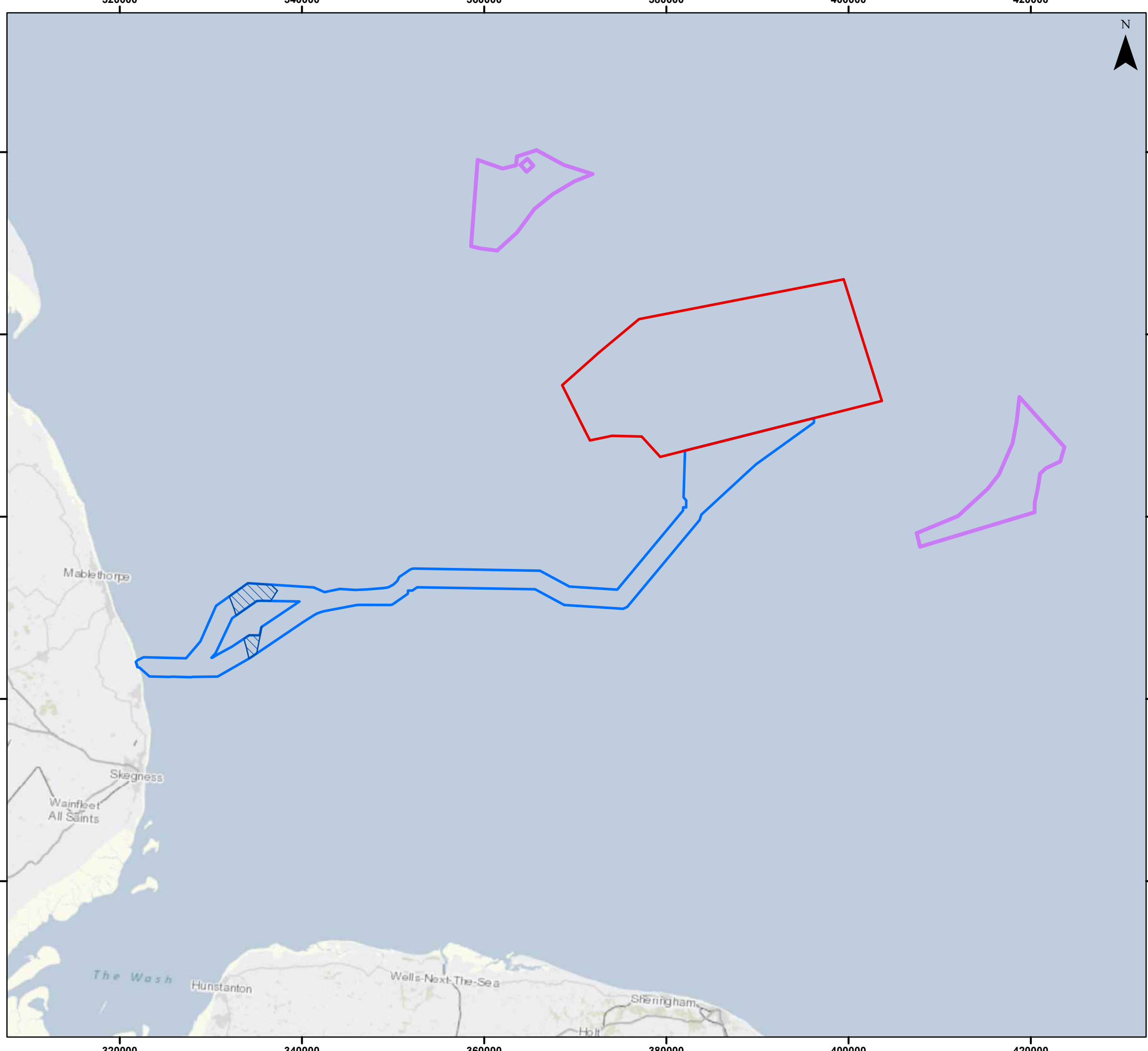
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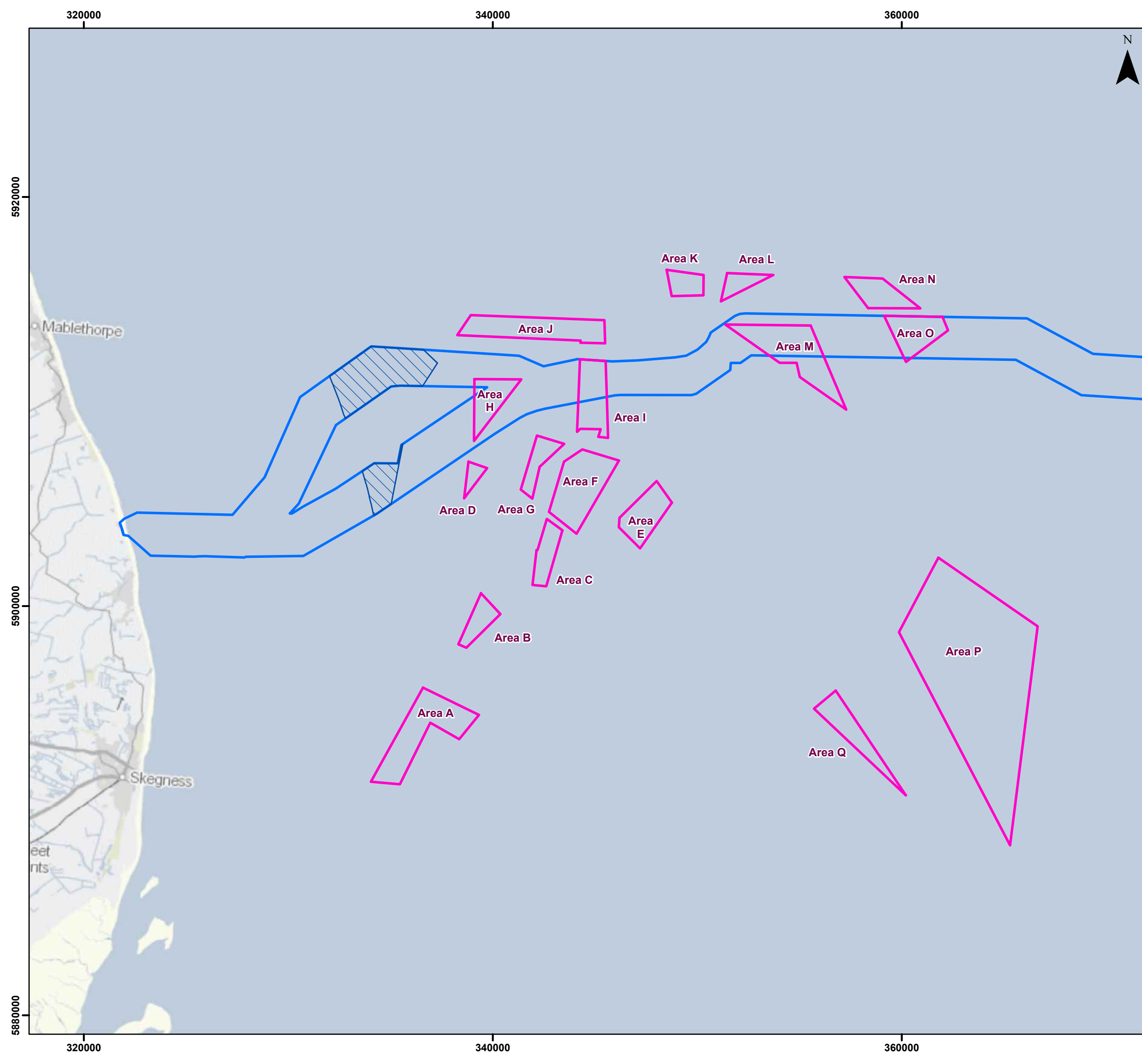

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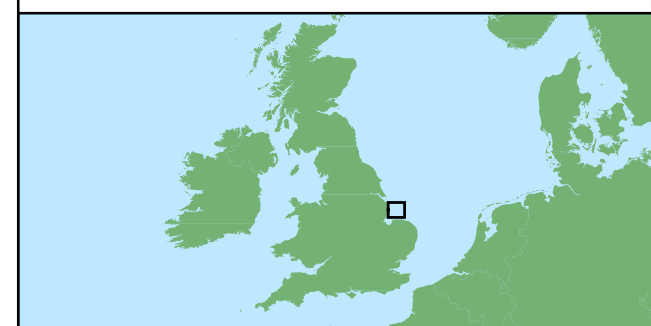
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Legend

-  Offshore Export Cable Corridor
-  ORCP Area
-  Biogenic Reef Restoration Area



Coordinate System: WGS 1984 UTM Zone 31N
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Environmental Statement
 Refined Biogenic Reef Areas
 Figure 4.13



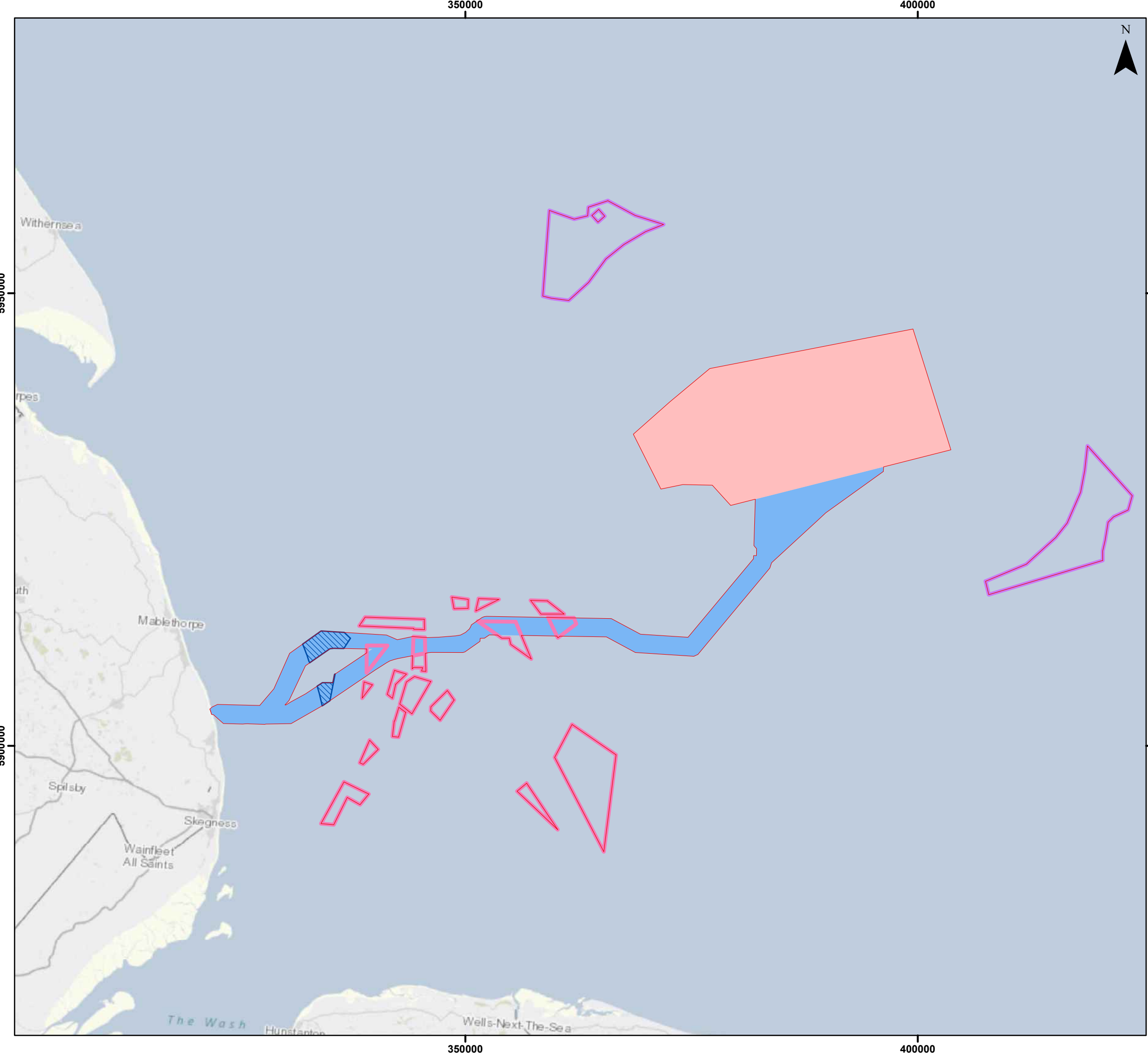
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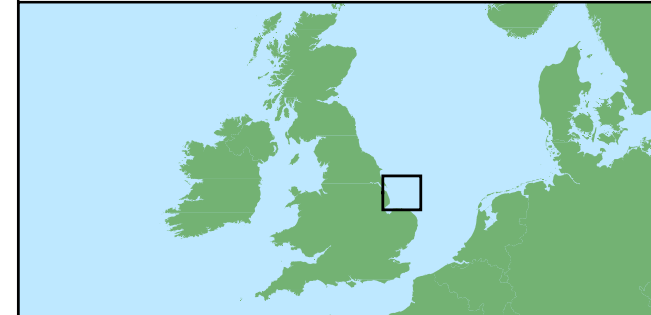
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Legend

- Offshore Order Limits
- Array Area
- Offshore Export Cable Corridor
- ORCP Area
- Artificial Nesting Structure Area
- Biogenic Reef Restoration Area



Coordinate System: WGS 1984 UTM Zone 31N
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Environmental Statement
 Offshore Order Limits
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527500

530000

532500

332500

332500

330000

330000

327500

327500

325000

325000

527500

530000

532500



Legend

- National Grid T Junction Location
- National Grid T Junction 3.5 km Search Radius
- - - National Grid 400 kV Overhead Line (OHL)
- - - National Grid OHL 100 m Buffer
- Statutory Main River
- Minor Watercourse
- Waterbody
- A Road
- B Road
- Minor Road
- Local Road or Access Track

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 Data captured 06/2023



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Environmental Statement
 Initial Weston Marsh OnSS Search Area

Figure 4.15



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530000

532500

332500

332500

330000

330000

327500

327500

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325000

527500

530000

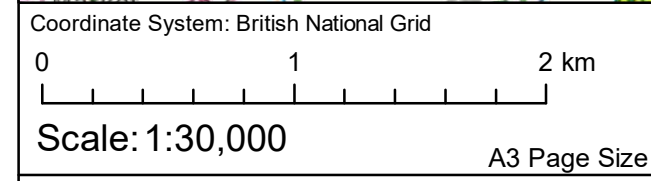
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Legend

- National Grid T Junction Location
- National Grid T Junction 3.5 km Search Radius
- ▭ Refined Search
- ▭ Onshore Substation (OnSS) Footprint
- National Grid 400 kV Overhead Line (OHL)
- - - National Grid OHL 100 m Buffer
- Statutory Main River
- Minor Watercourse
- Waterbody
- Environment Agency Flood Zone 3
- Environment Agency Flood Zone 2
- A Road
- B Road
- Minor Road
- Local Road or Access

Note:
Onshore Substation (OnSS) Footprint symbology adjusted for the purpose of assessing flood risk zones

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Environmental Statement
Refined Search Area Flood Assessment:
Flood Risk Zones
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530000

532500

332500

332500

330000

330000

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327500

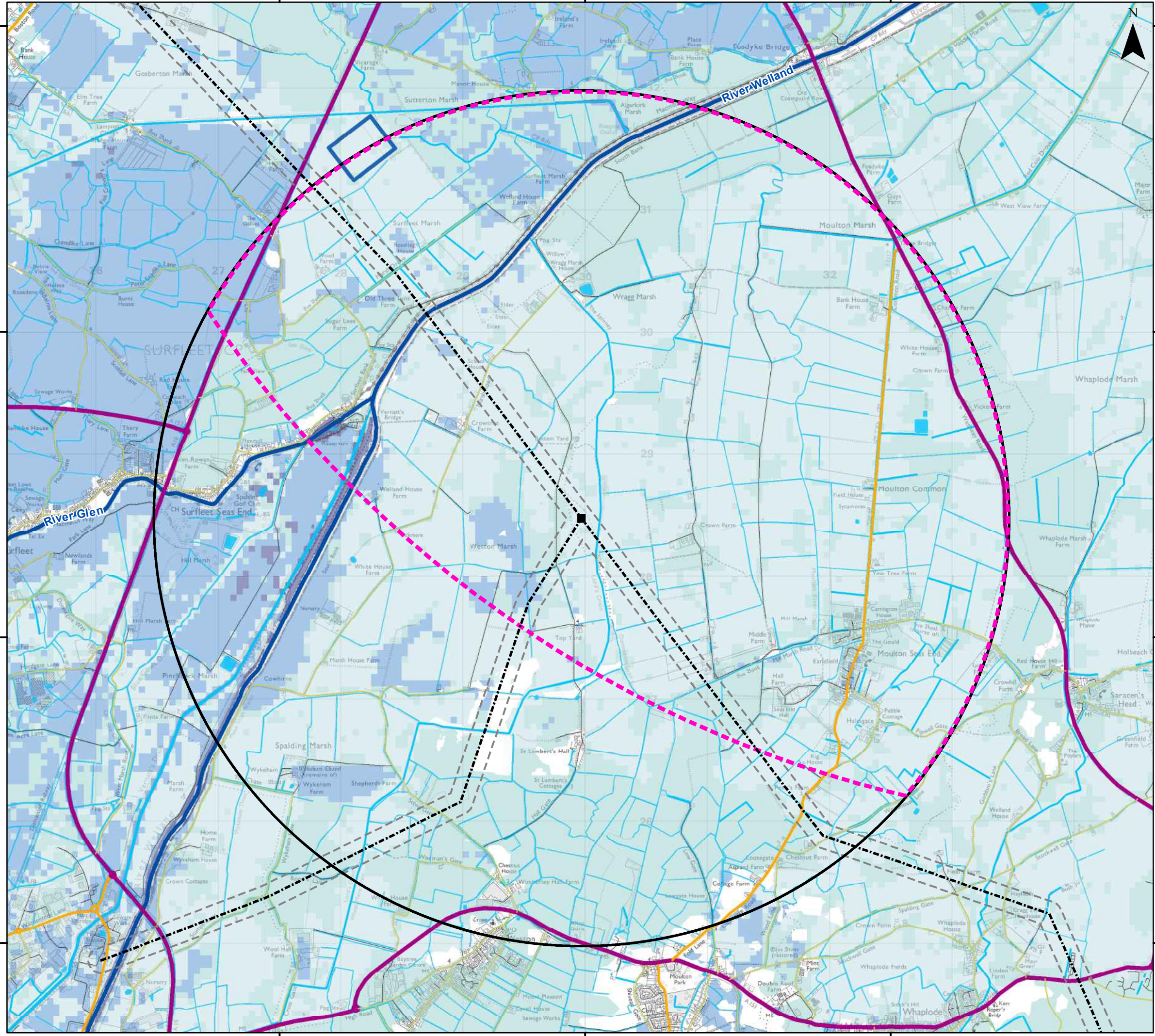
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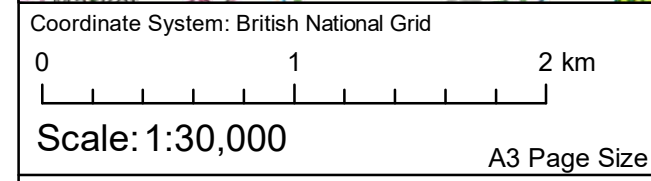


Legend

- National Grid T Junction Location
 - National Grid T Junction 3.5 km Search Radius
 - ▭ Refined Search Area
 - ▭ Onshore Substation (OnSS) Footprint
 - National Grid 400 kV Overhead Line (OHL)
 - - - National Grid OHL 100 m Buffer
 - Statutory Main River
 - Minor Watercourse
 - Waterbody
- Flood Risk**
- High (more than 3.3% chance each year)
 - Medium (between 1% and 3.3% chance each year)
 - Low (between 0.1% and 1% chance each year)
 - Very Low (less than 0.1% chance each year)
 - A Road
 - B Road
 - Minor Road
 - Local Road or Access

Note:
Onshore Substation (OnSS) Footprint symbology adjusted for the purpose of assessing flood risk zones

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Environmental Statement
Refined Search Area Flood Assessment:
Long Term Flood Risk
Figure 4.16.2



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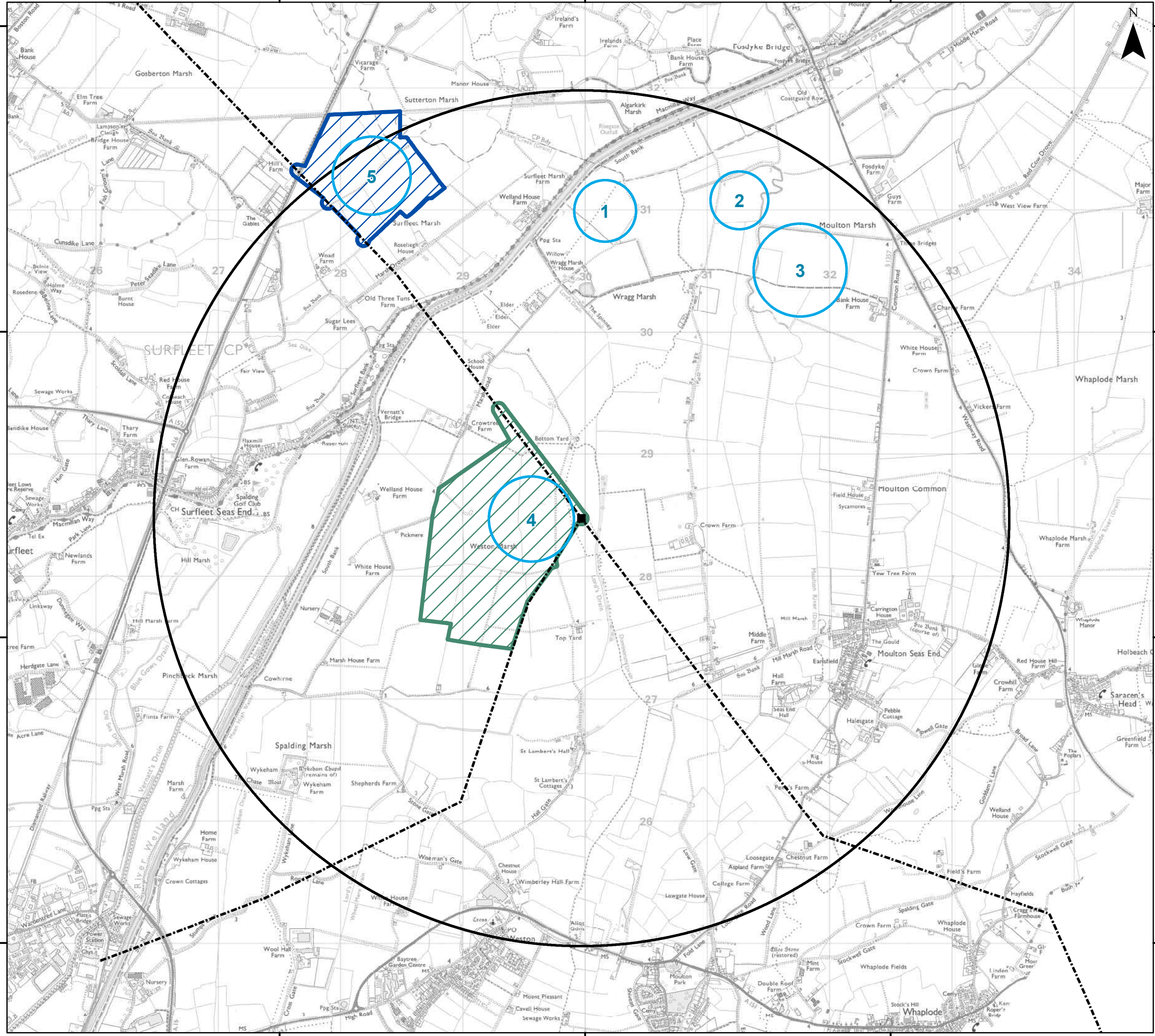
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Legend

- National Grid T Junction Location
- - - National Grid 400 kV Overhead Line (OHL)
- National Grid T Junction 3.5 km Search Radius
- ▭ OnSS Site Option Area
- PEIR Study Areas**
- ▨ Weston Marsh North ('Surfleet Marsh') Study Area
- ▩ Weston Marsh South ('Weston Marsh') Study Area



Coordinate System: British National Grid

Scale: 1:30,000 A3 Page Size

Environmental Statement
OnSS Site Options and PEIR Study Areas

Figure 4.17



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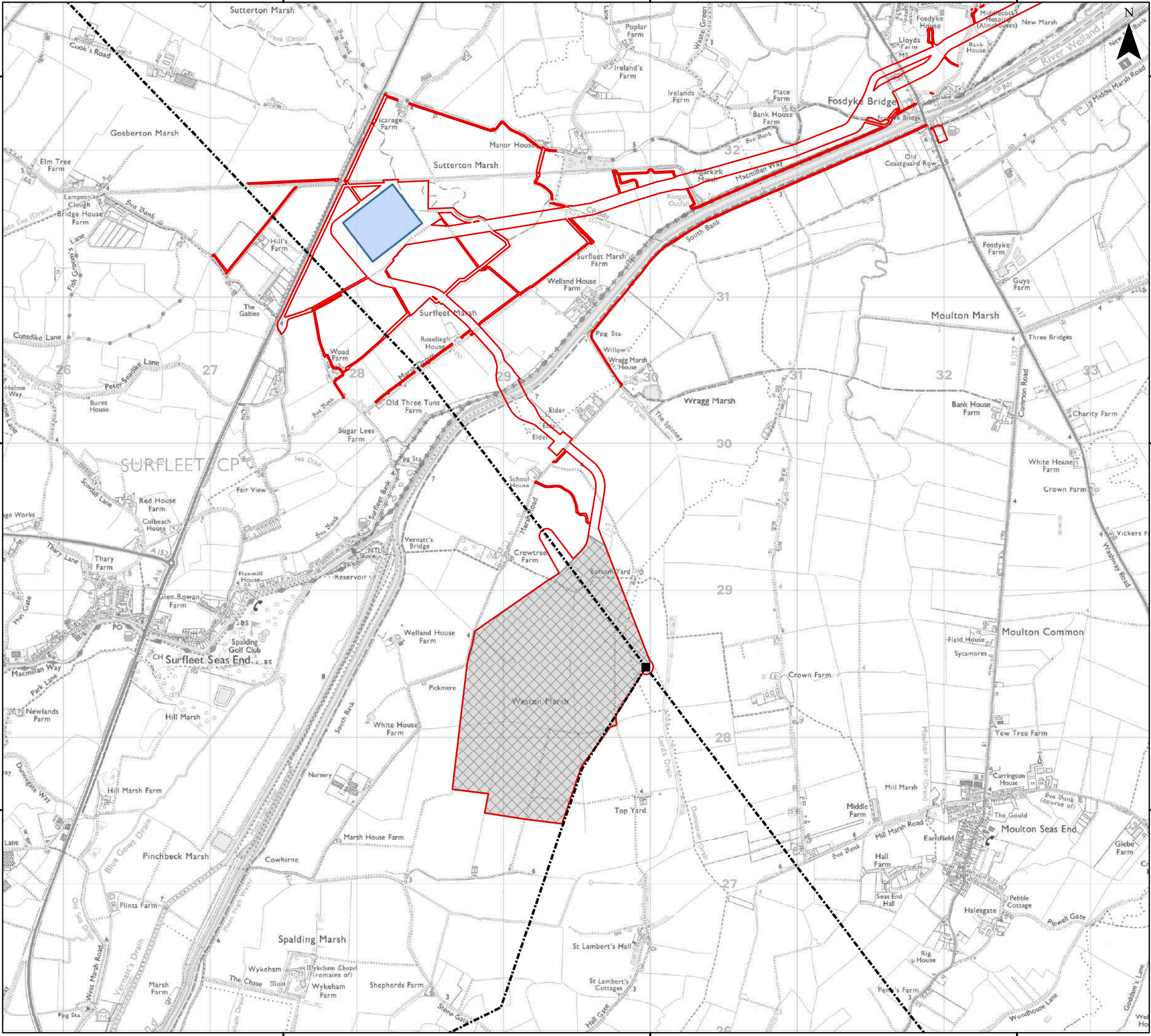
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Legend

- ES Boundary (Autumn Consultation)
- National Grid T Junction Location
- National Grid 400 kV Overhead Line (OHL)
- Onshore Substation (OnSS) Footprint
- Connection Area



Coordinate System: British National Grid
 0 0.5 1 km
 Scale: 1:25,000
 A3 Page Size

Environmental Statement
 Surfleet Marsh OnSS Site
 and Landscaping (Autumn Consultation)
 Figure 4.18



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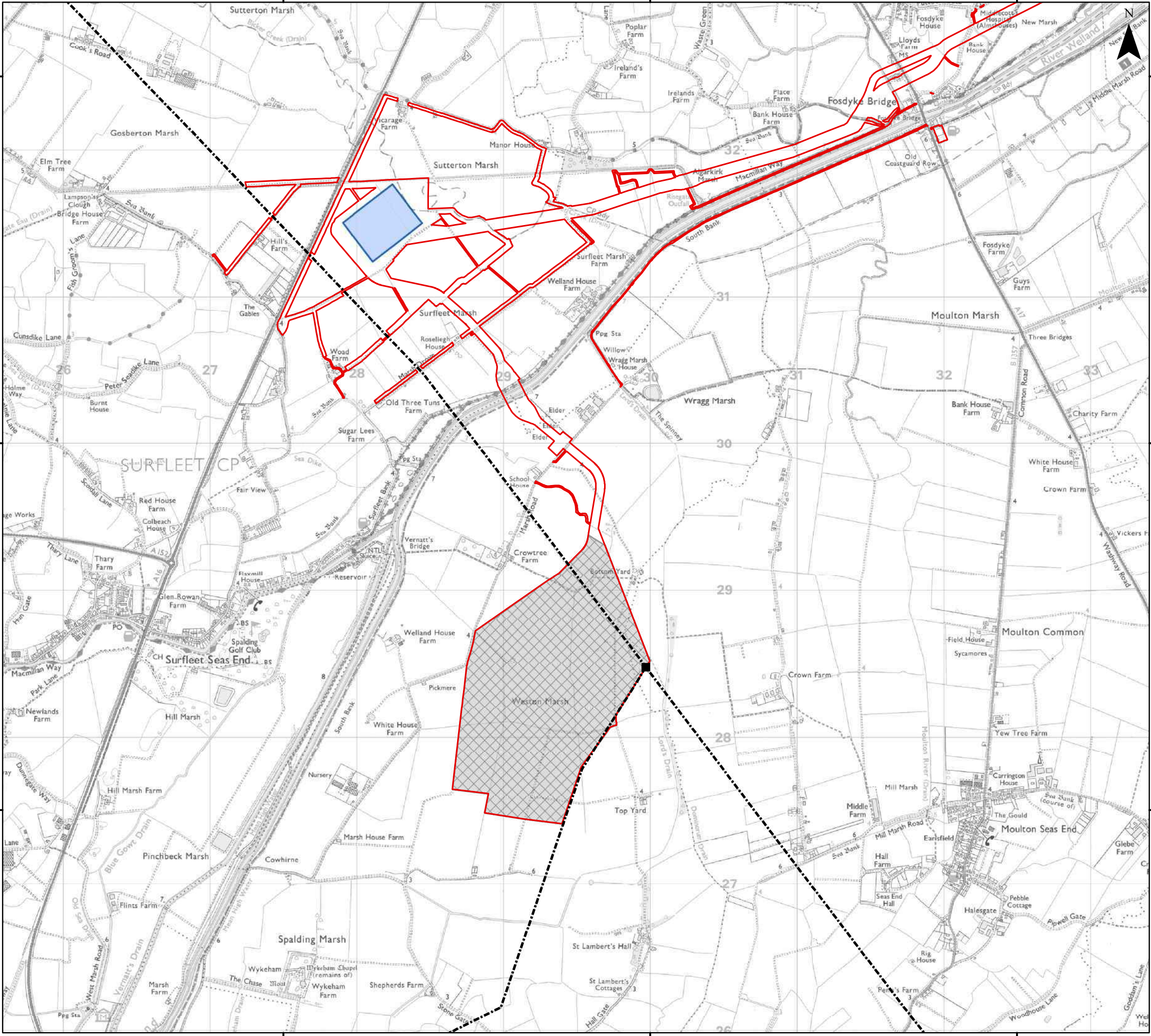
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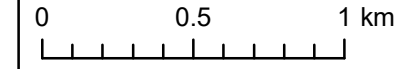


Legend

- Order Limits
- Onshore Substation (OnSS) Footprint
- Connection Area
- National Grid T Junction Location
- National Grid 400 kV Overhead Line (OHL)



Coordinate System: British National Grid



Scale: 1:25,000

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Environmental Statement

Onshore Order Limits
(OnSS Site and Landscaping)

Figure 4.19

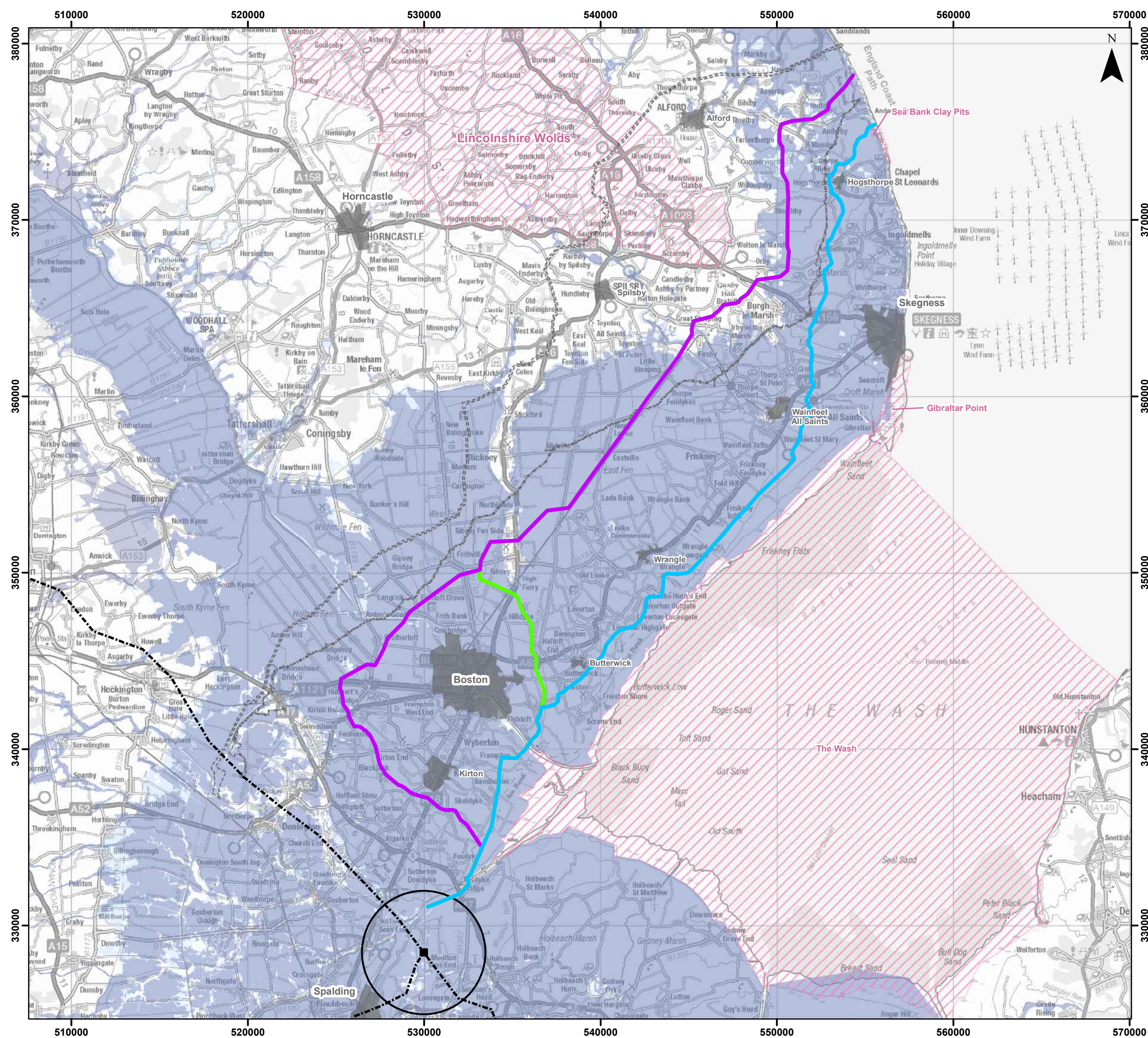


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Legend

Weston Marsh Initial Onshore ECC Options

- Option 1 (58.19 km)
- Option 2 (64.26 km)
- Option 3 (63.97 km)
- National Grid T Junction Location
- National Grid 400 kV Overhead Line (OHL)
- National Grid T Junction 3.5 km Search Radius
- Viking Link
- Triton Knoll
- Designated Site
- Environment Agency Flood Zone 3
- Environment Agency Flood Zone 2
- Populated Area

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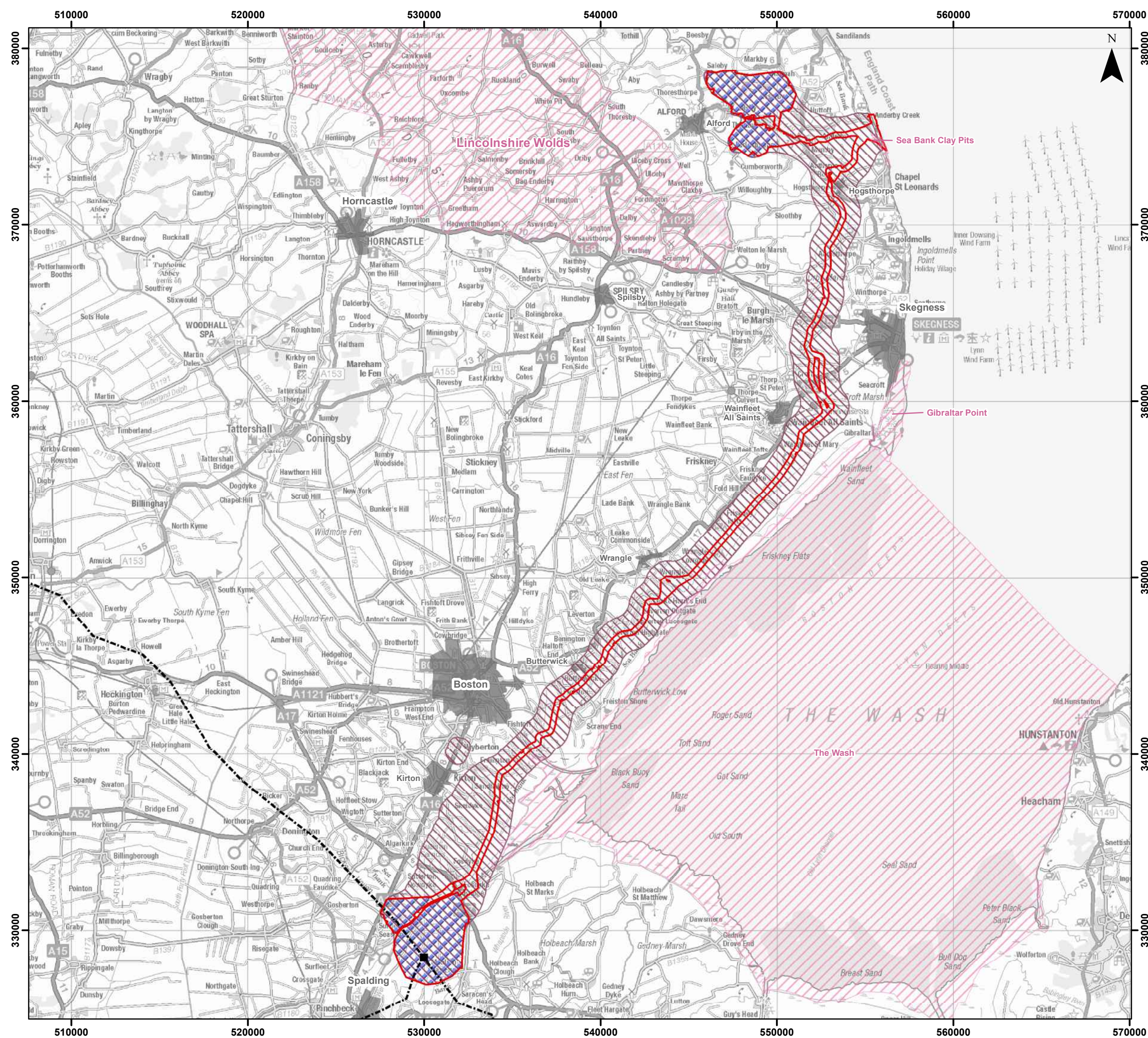
Environmental Statement
 Weston Marsh Initial Onshore
 Export Cable Corridor Options
 Figure 4.20



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Legend

- Indicative 80 m Onshore Export Cable Corridor
- Onshore Export Cable Corridor Search Zone
- Substation Search Zone
- National Grid T Junction Location
- National Grid 400 kV Overhead Line (OHL)
- Designated Site
- Populated Area

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Environmental Statement
 Phase 1 Onshore Export Cable Corridor
 Figure 4.21

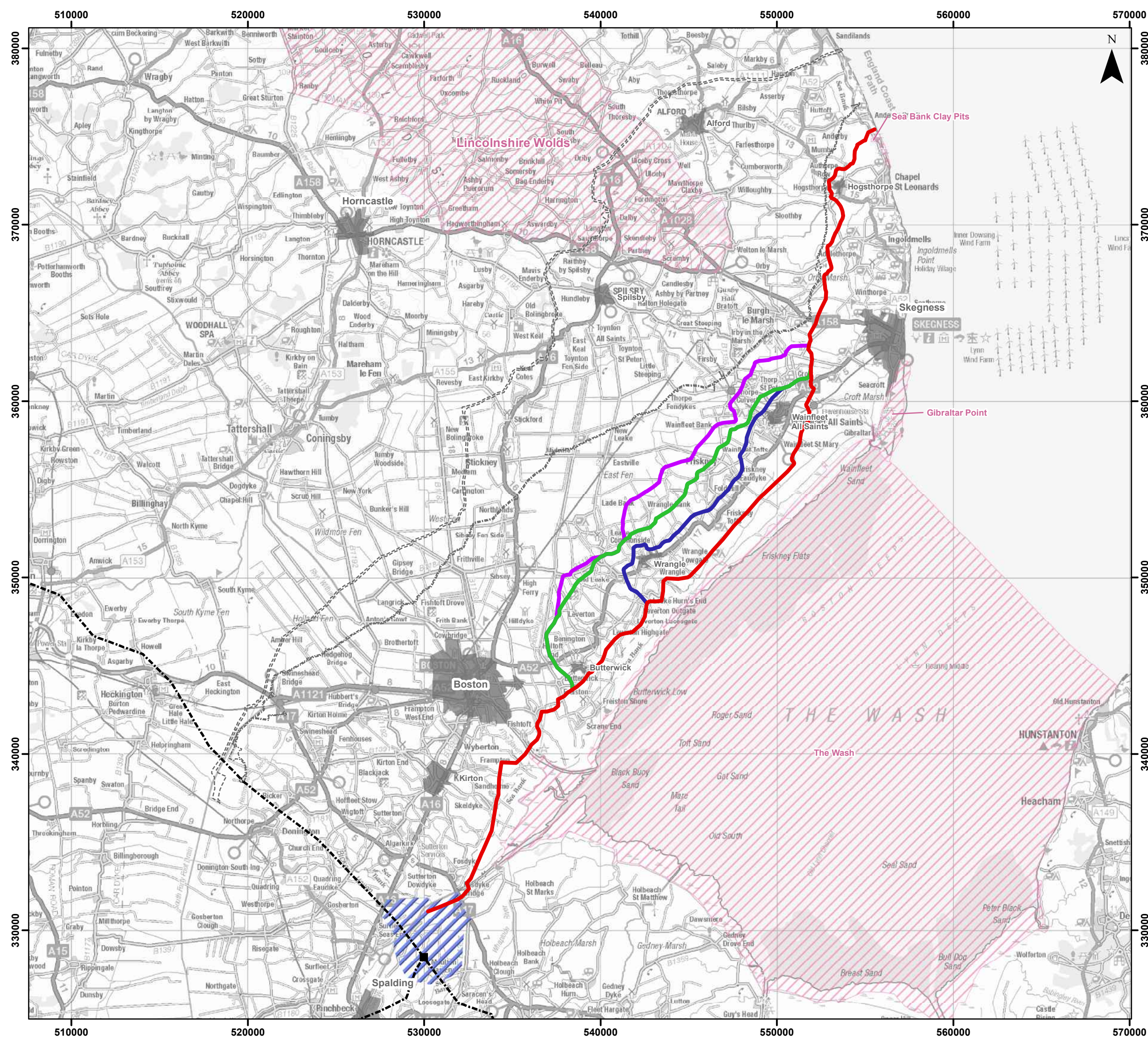
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Legend

- Onshore Export Cable Corridor to Weston Marsh
- Onshore Export Cable Corridor to Weston Marsh Alternative Route Options**
- Route Option 1
- Route Option 2
- Route Option 3
- Route Option 4
- ▨ Substation Search Zone
- National Grid T Junction Location
- - - National Grid 400 kV Overhead Line (OHL)
- ▨ Designated Site
- - - Viking Link
- - - Triton Knoll
- Populated Area

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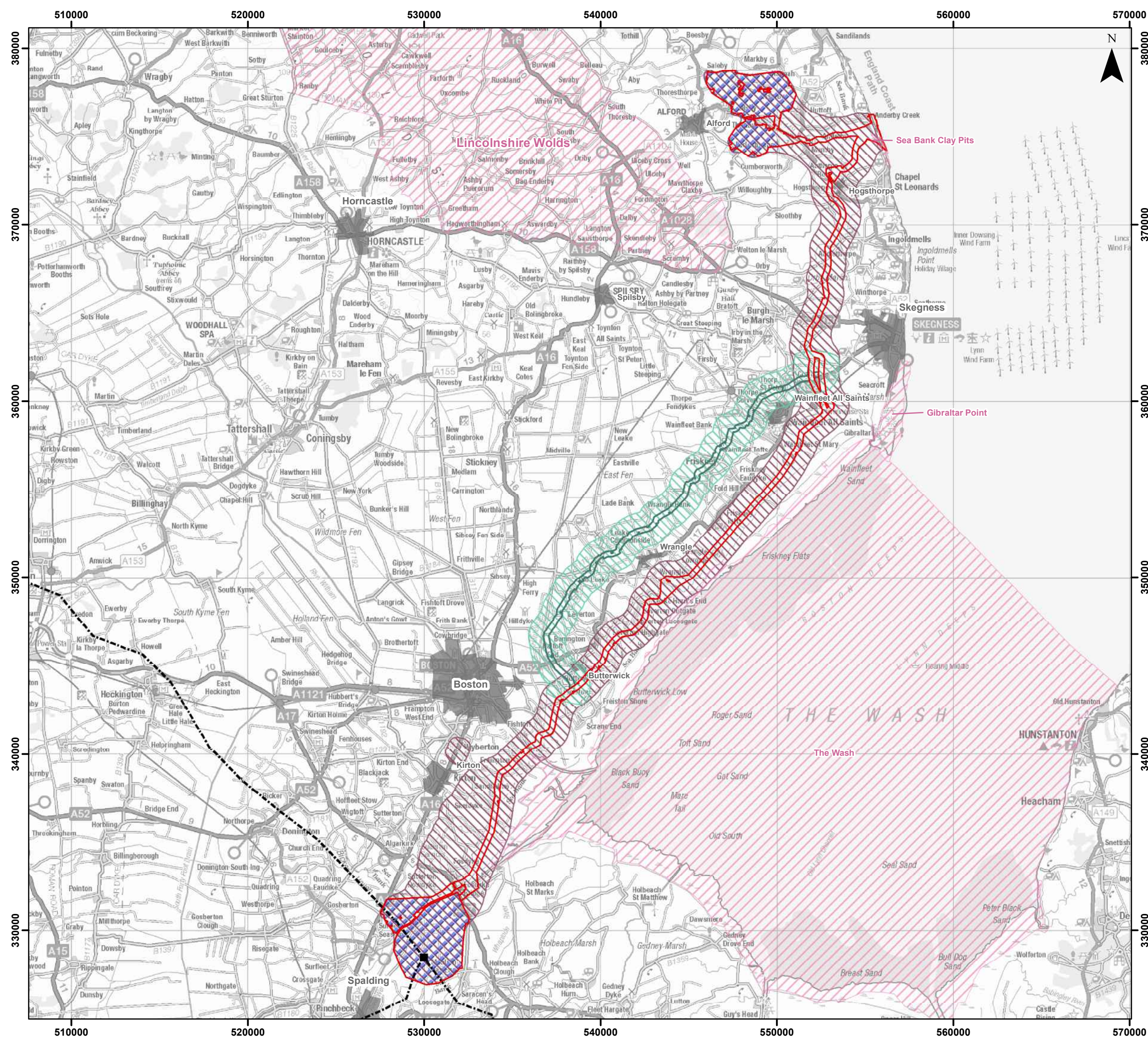
Environmental Statement
 Alternative Route Options Considered
 for Export Cable Corridor to Weston Marsh
 Figure 4.22

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Legend

- Phase 1a Alternative Indicative 80 m Onshore Export Cable Corridor
- Phase 1a Alternative Onshore Export Cable Corridor Search Zone
- Onshore Export Cable Corridor Search Zone
- Substation Search Zone
- National Grid T Junction Location
- National Grid 400 kV Overhead Line (OHL)
- Designated Site
- Populated Area

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Environmental Statement
 Phase 1a Alternative
 Onshore ECC Route Option
 Figure 4.23

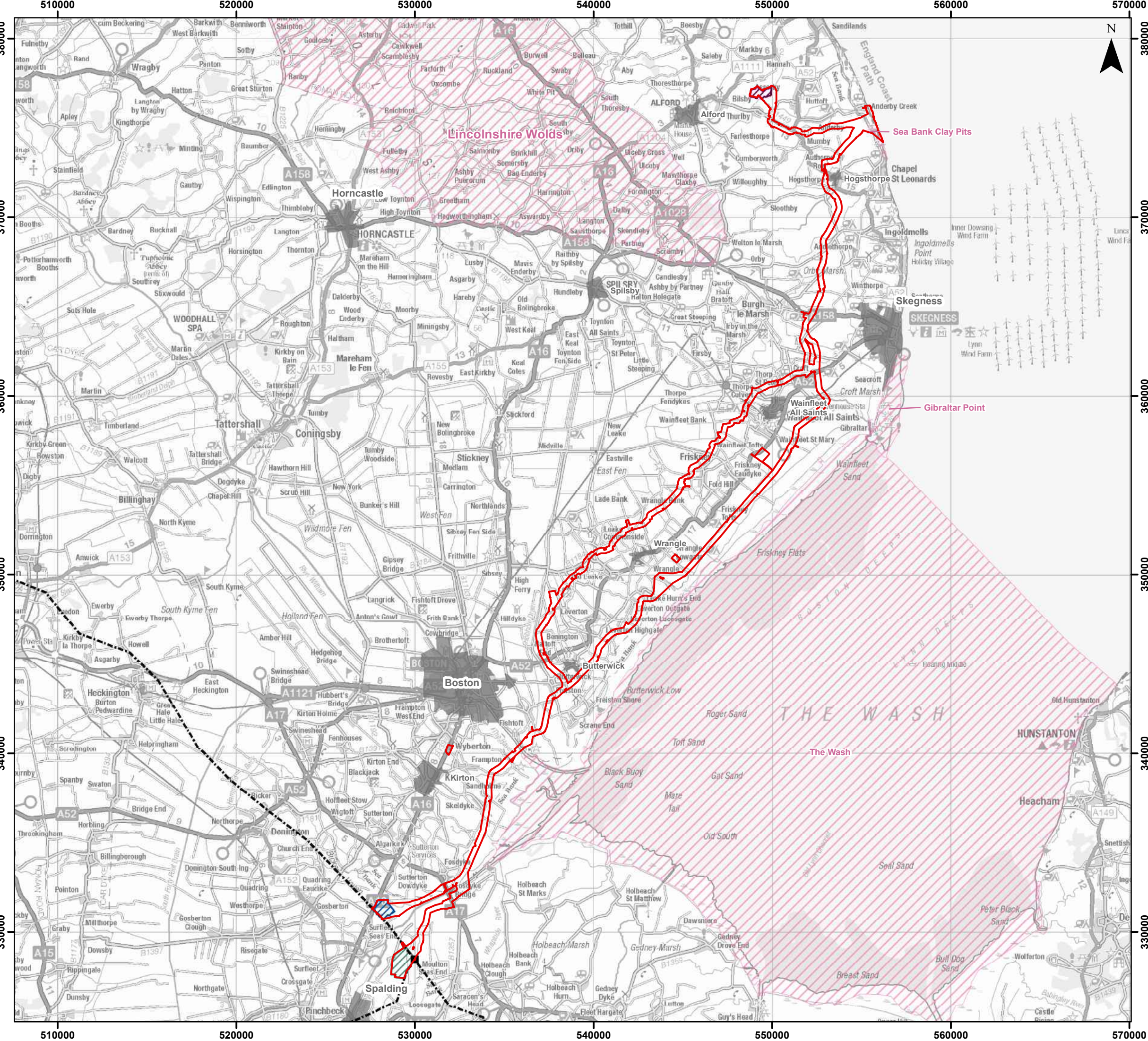


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Legend

- Onshore PEIR Boundary
- Lincolnshire Node Study Area
- Weston Marsh North ('Surfleet Marsh') Study Area
- Weston Marsh South ('Weston Marsh') Study Area
- National Grid T Junction Location
- National Grid 400 kV Overhead Line (OHL)
- Designated Site
- Populated Area

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Environmental Statement
 Onshore c. 300m PEIR Boundary
 Inclusive of 80 m Indicative Cable Corridors
 Figure 4.24

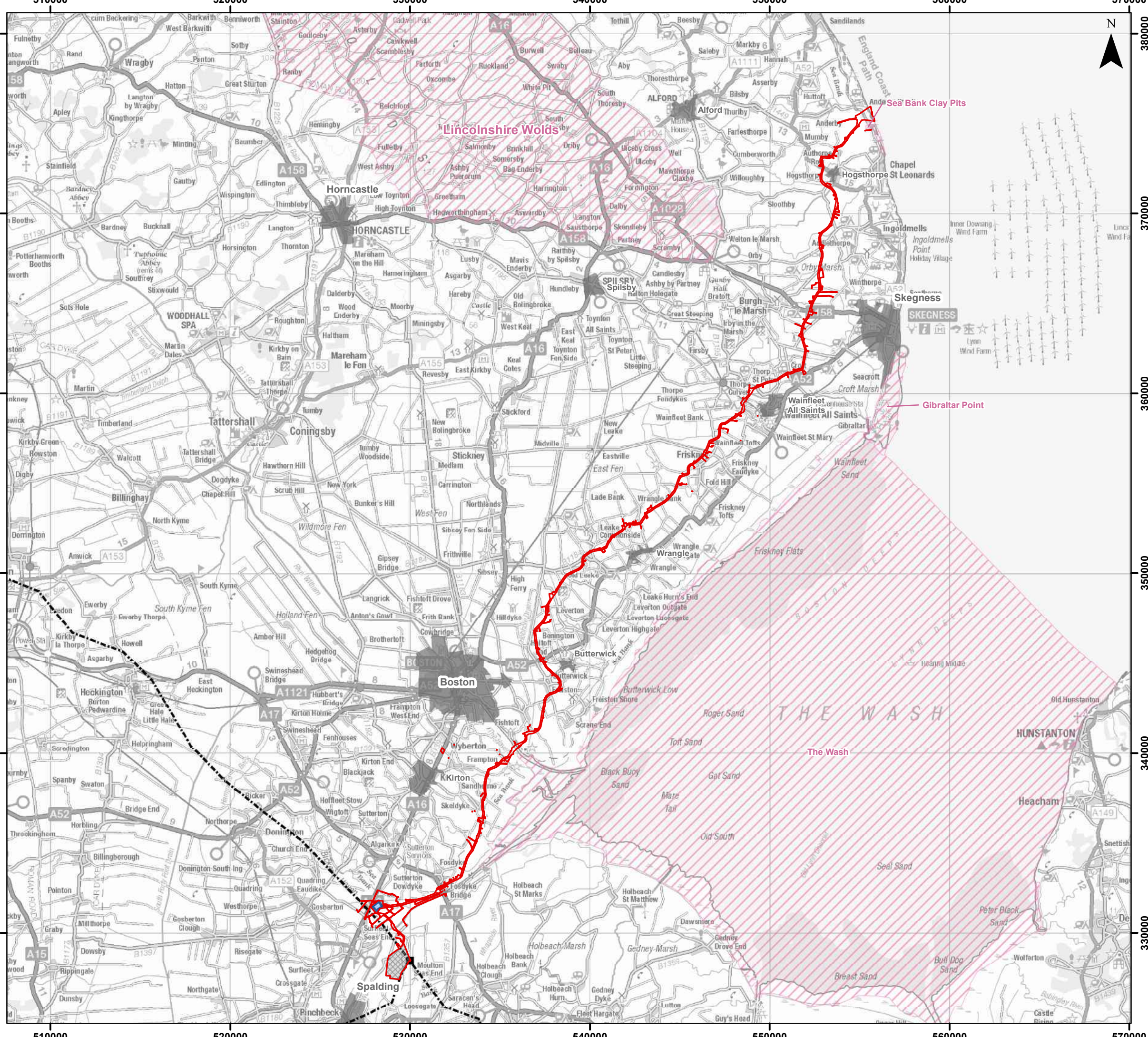


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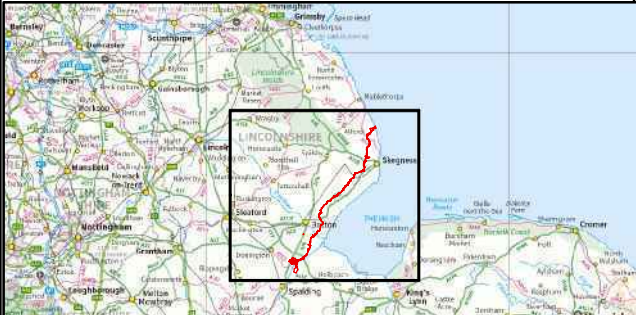
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Legend

- ES Boundary (Autumn Consultation)
- Onshore Substation (OnSS) Footprint
- Connection Area
- National Grid T Junction Location
- National Grid 400 kV Overhead Line (OHL)
- Designated Site
- Populated Area

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Environmental Statement
 Onshore ECC and 400 kV Cable
 Corridor (Section 42 Autumn Consultation)
 Figure 4.25



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Legend

- Order Limits
- Onshore Substation (OnSS) Footprint
- Connection Area



Coordinate System: British National Grid
 0 5 10 km
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Environmental Statement
 Onshore Order Limits
 Figure 4.26.1



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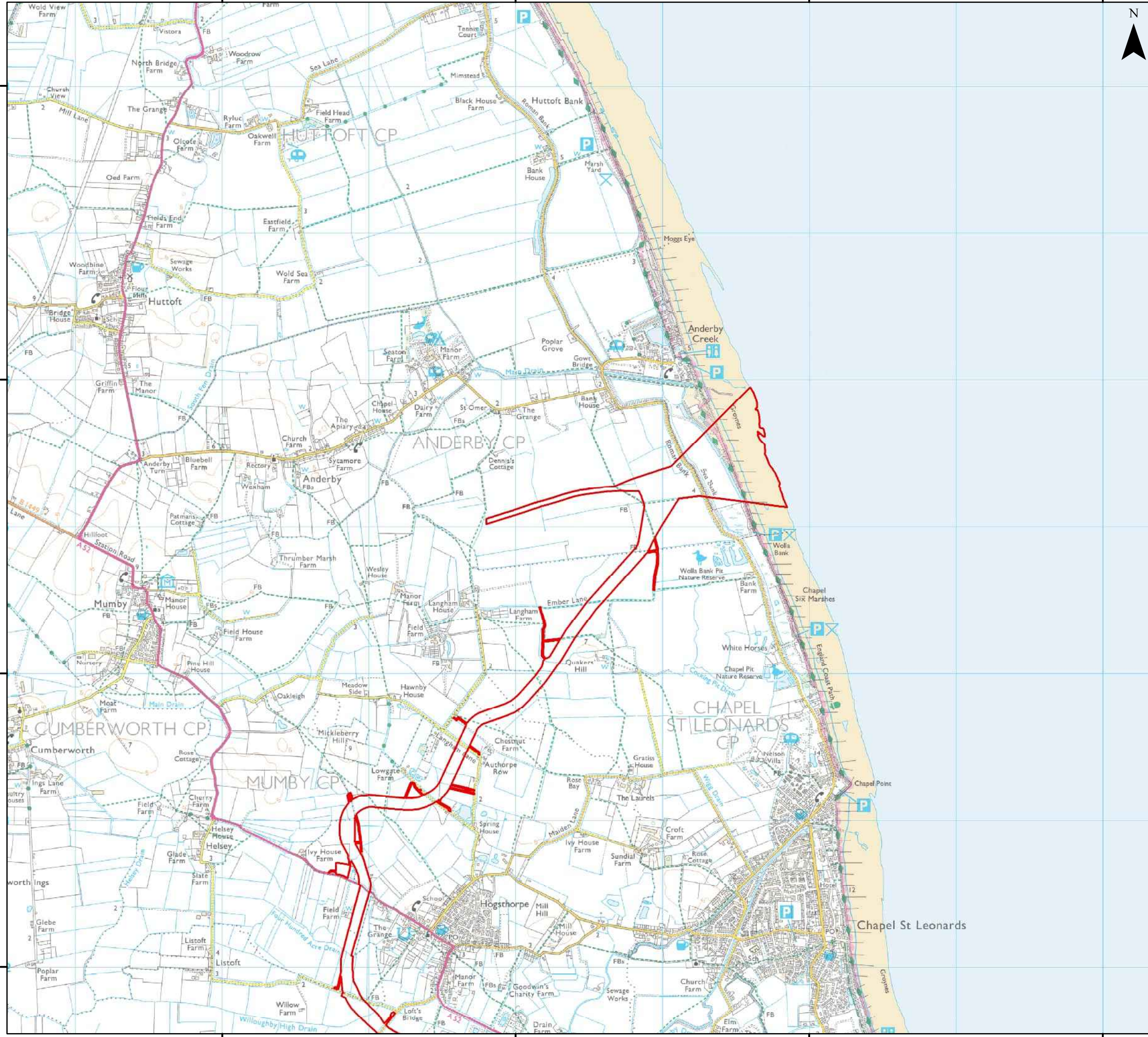
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Legend

 Order Limits



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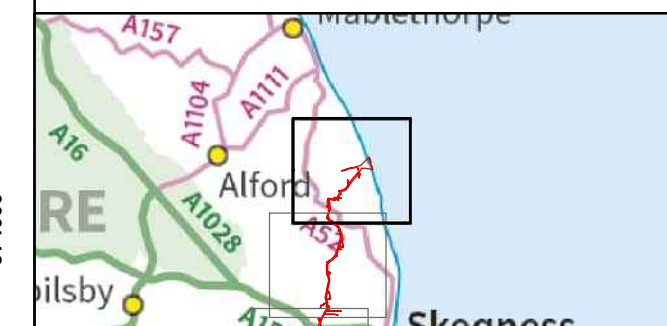
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Environmental Statement
Onshore Order Limits
Figure 4.26.2

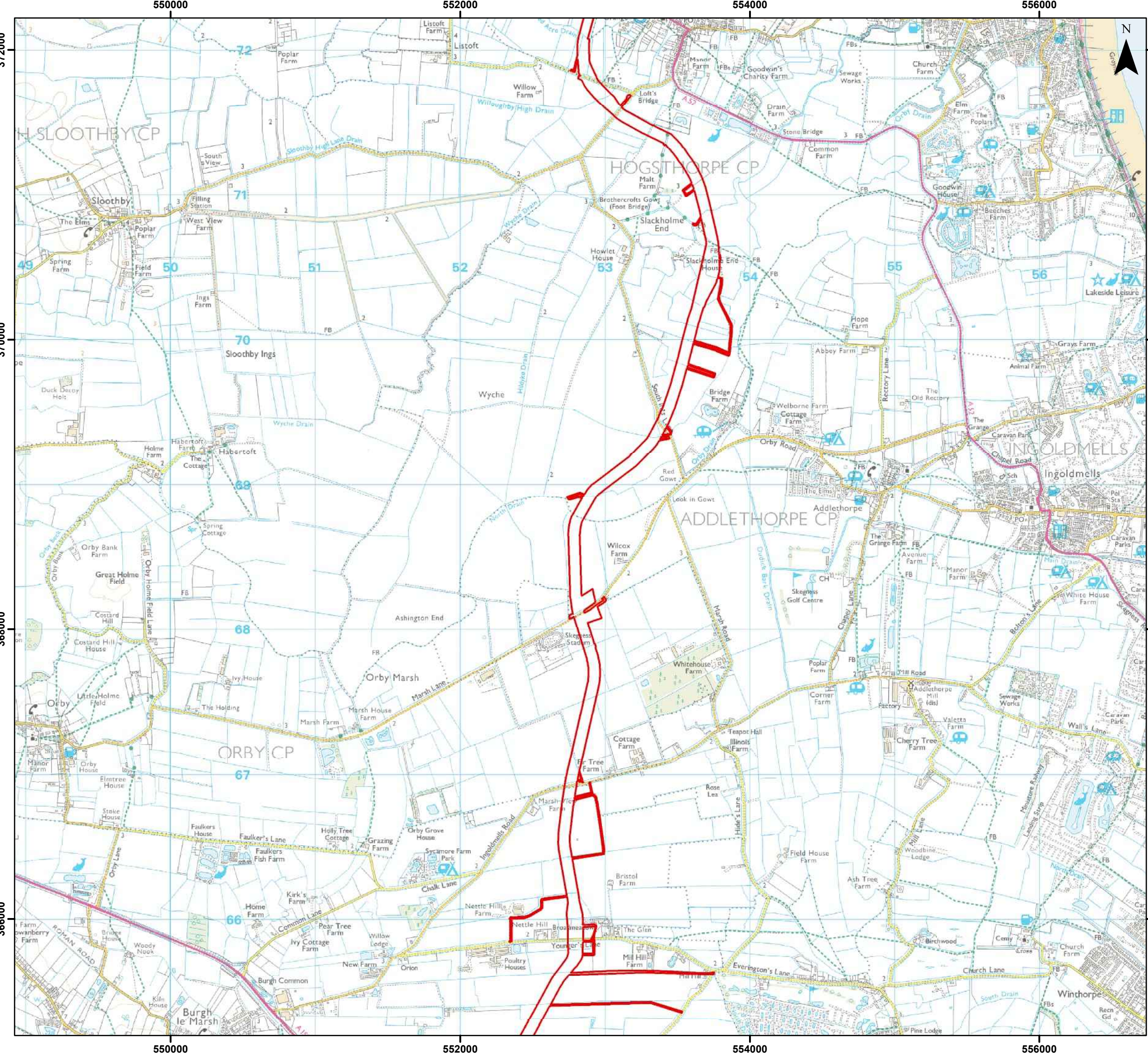


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 Order Limits

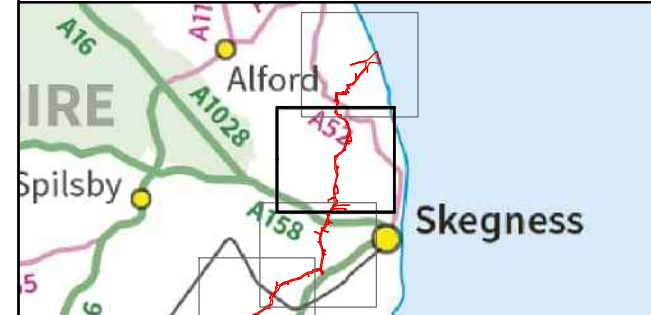
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Environmental Statement
 Onshore Order Limits
 Figure 4.26.3

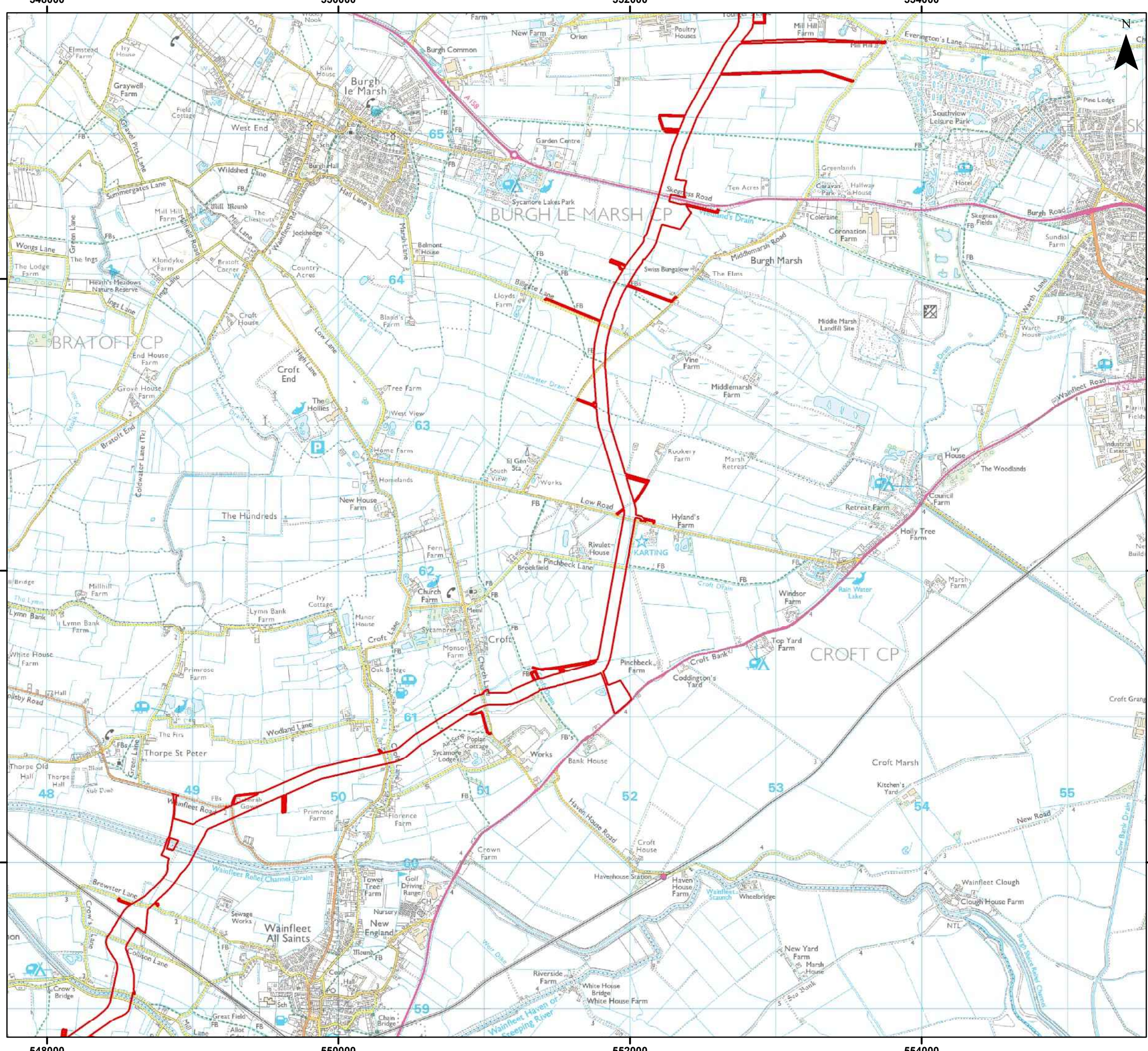
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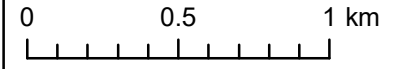


Legend

 Order Limits



Coordinate System: British National Grid



Scale: 1:25,000

A3 Page Size

Environmental Statement

Onshore Order Limits

Figure 4.26.4

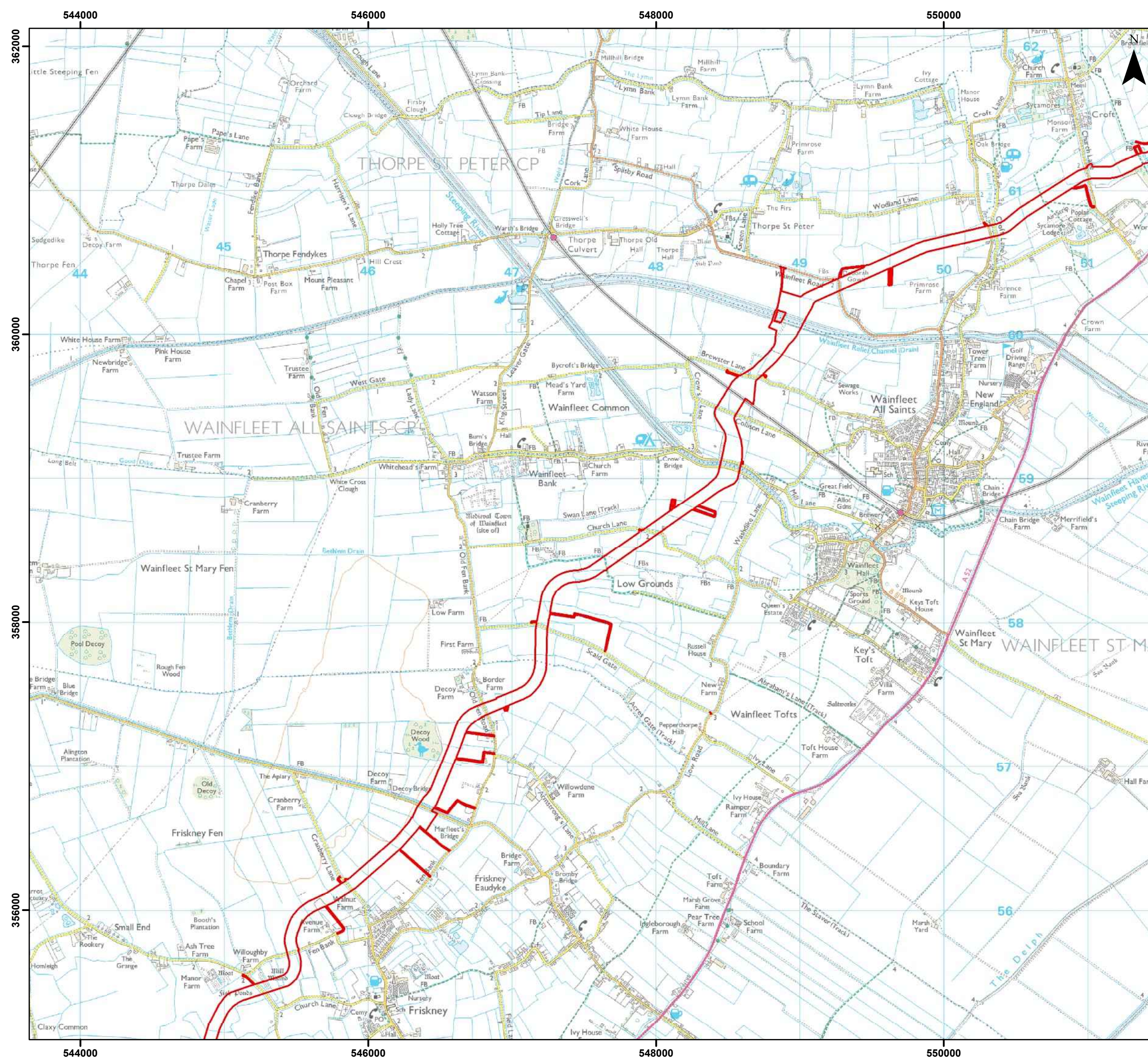


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 Order Limits

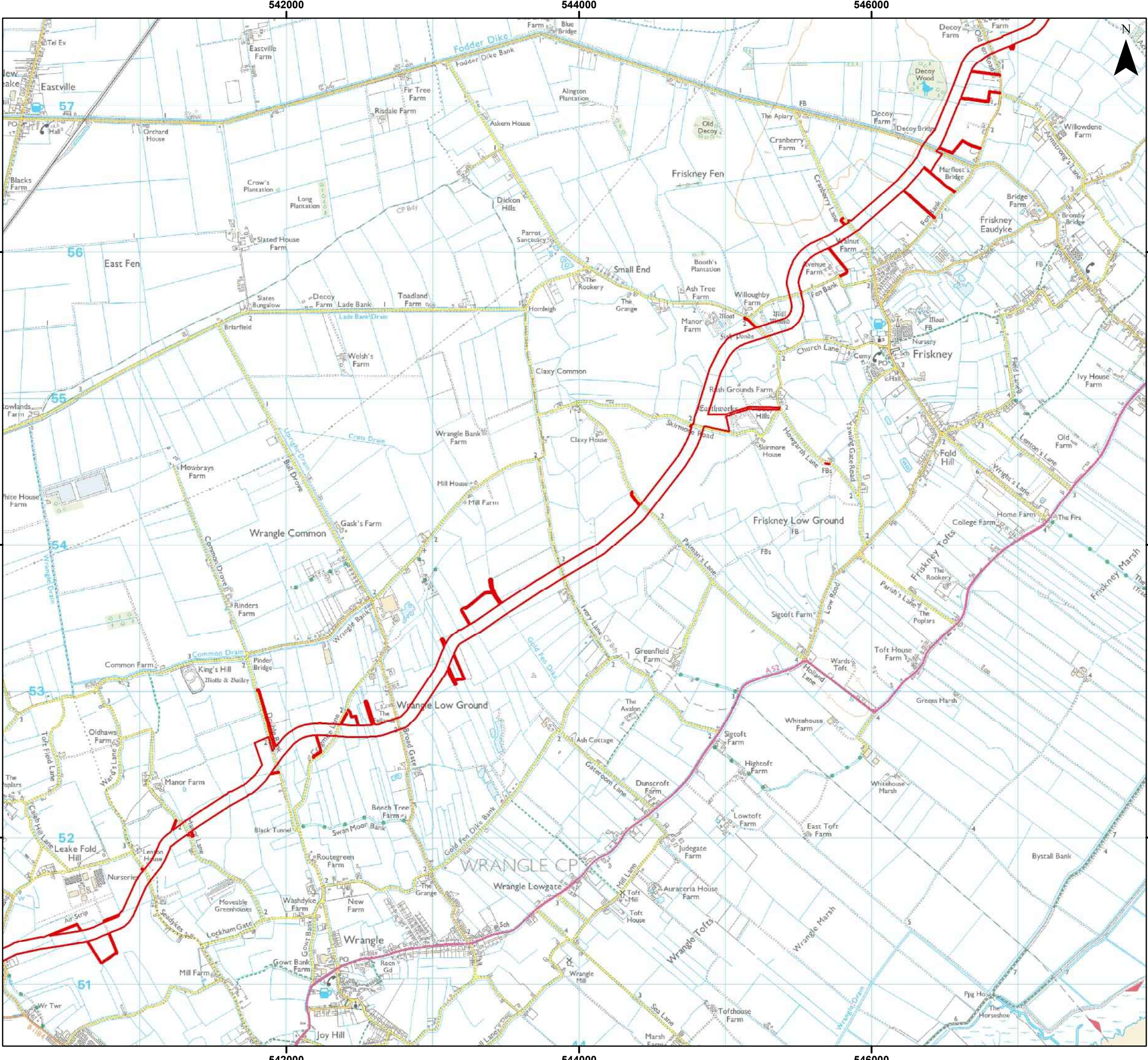
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Environmental Statement
 Onshore Order Limits
 Figure 4.26.5



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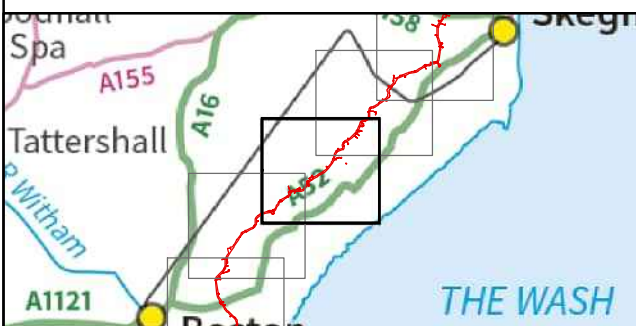
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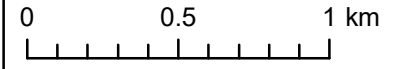


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 Order Limits



Coordinate System: British National Grid



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Environmental Statement

Onshore Order Limits

Figure 4.26.6

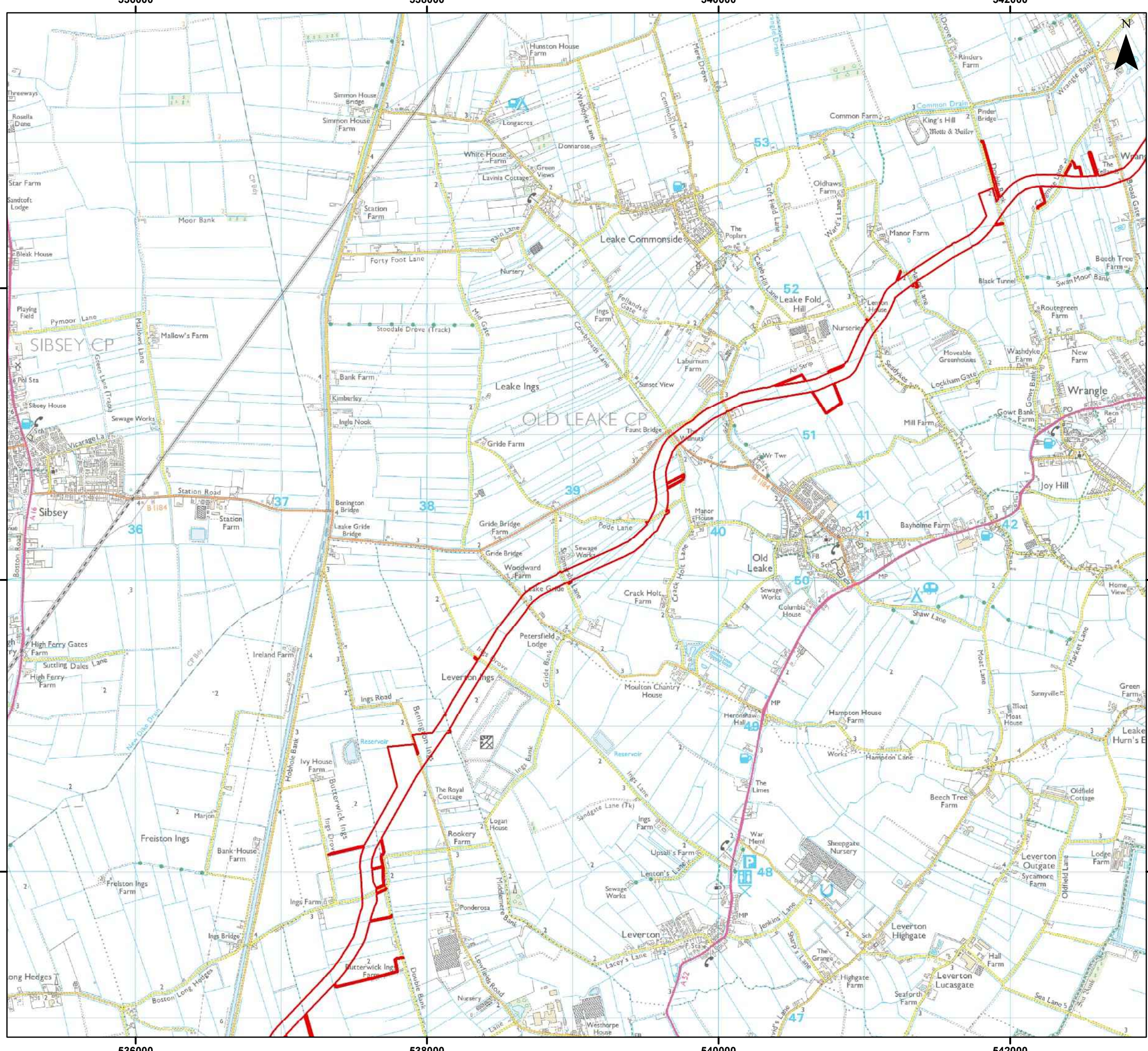


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Order Limits

Coordinate System: British National Grid

0 0.5 1 km

Scale: 1:25,000

A3 Page Size

Environmental Statement

Onshore Order Limits

Figure 4.26.7

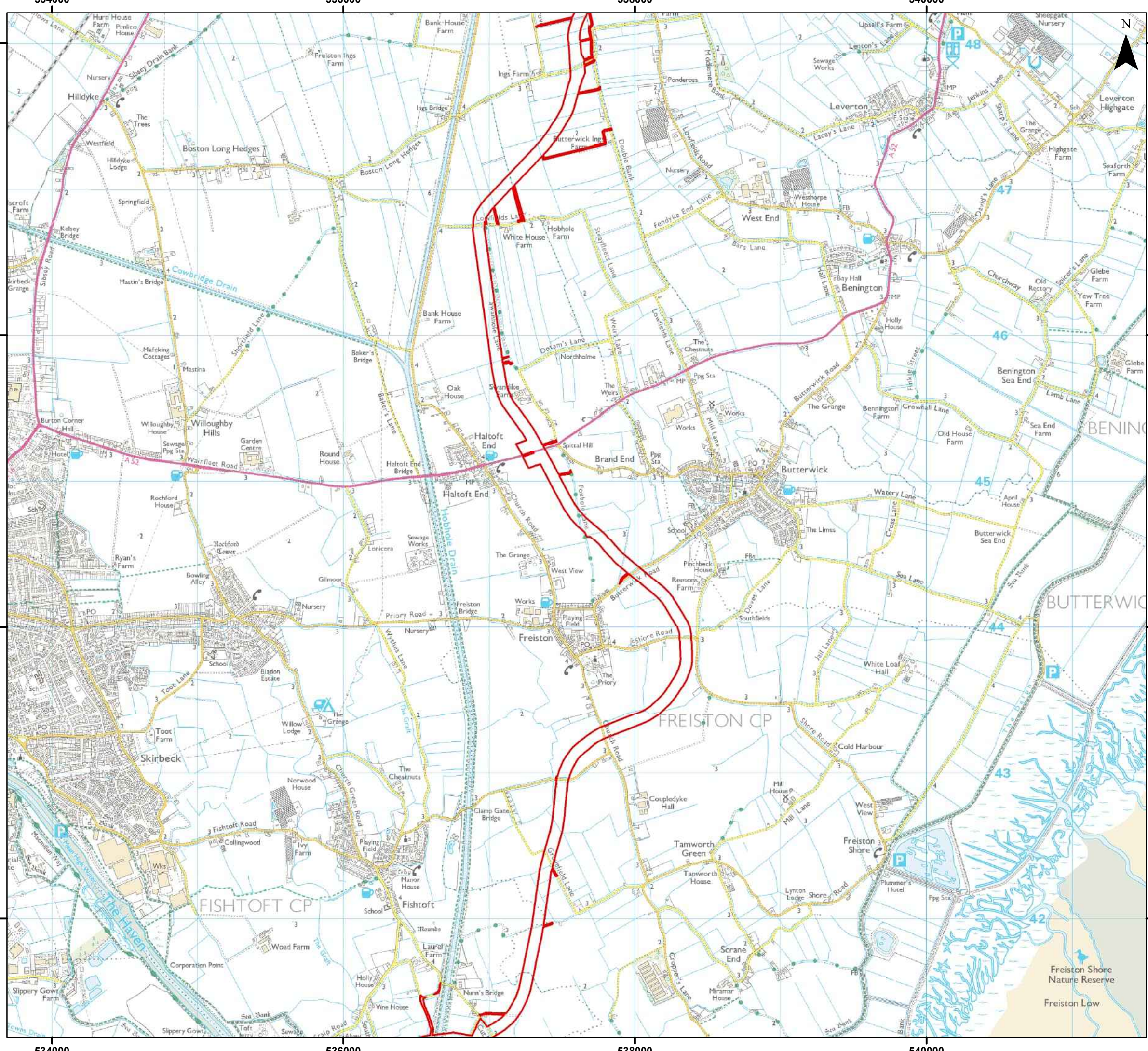
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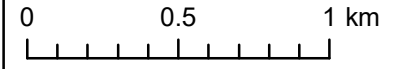


Legend

 Order Limits



Coordinate System: British National Grid



Scale: 1:25,000

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Environmental Statement

Onshore Order Limits

Figure 4.26.8

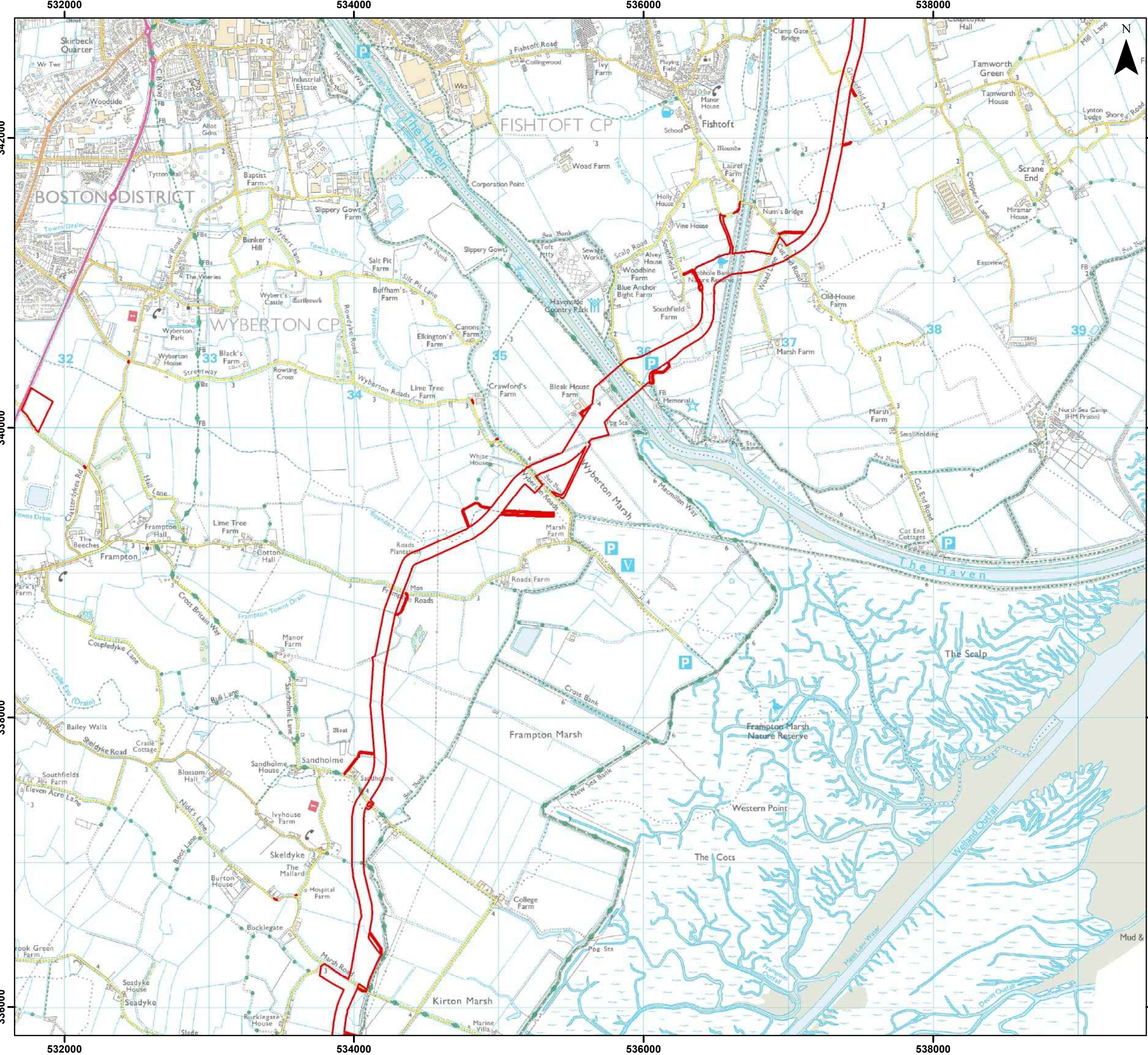


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Legend

Order Limits



Coordinate System: British National Grid
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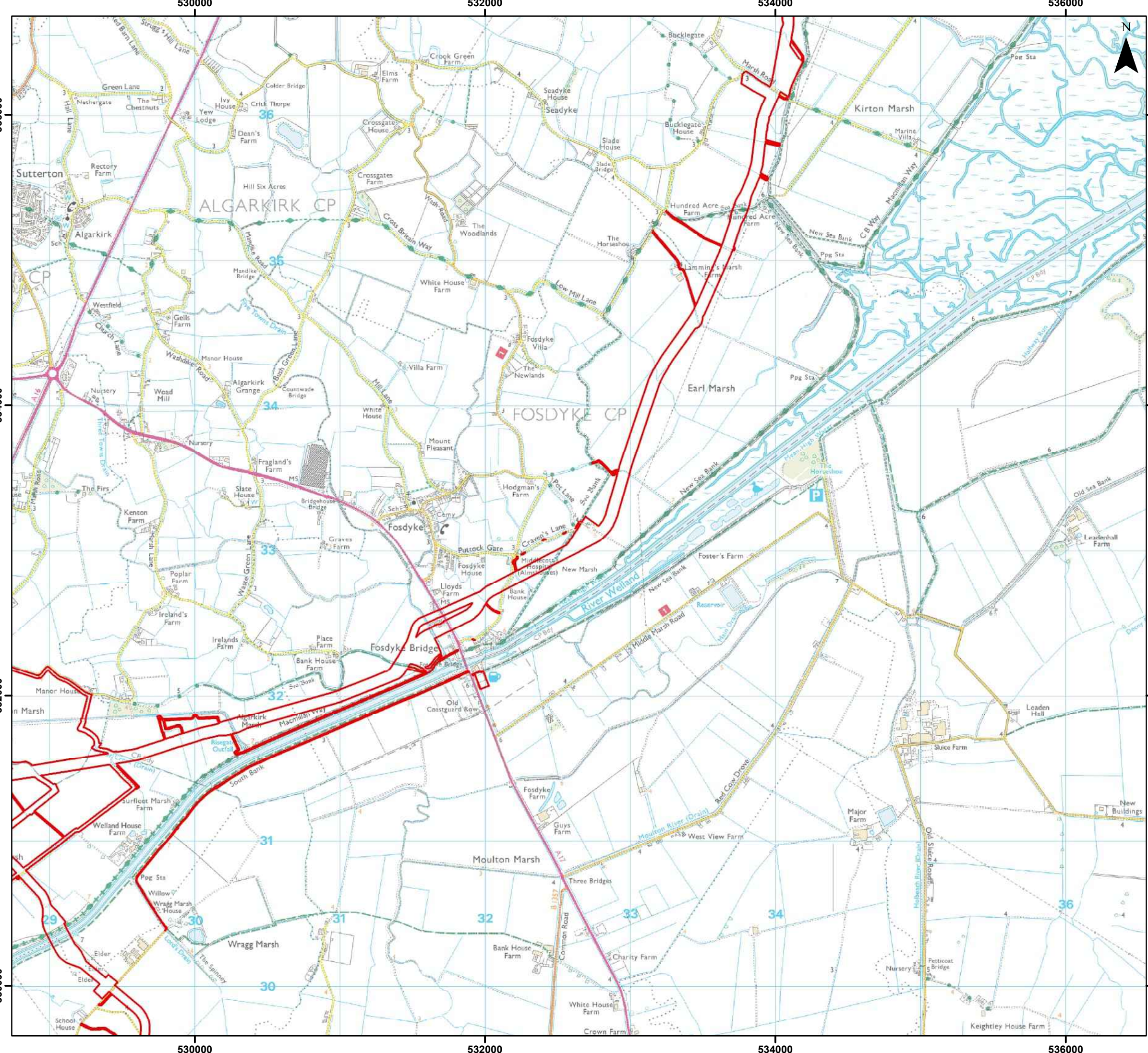
Environmental Statement
 Onshore Order Limits
 Figure 4.26.9


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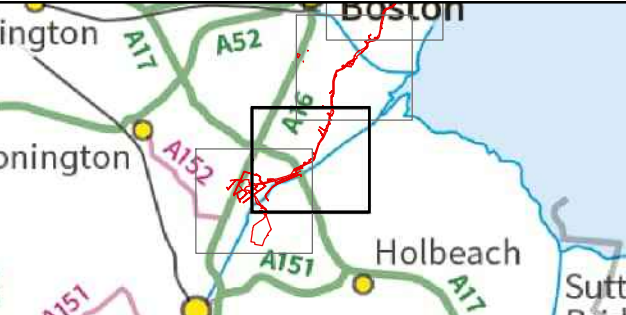
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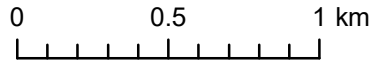


Legend

 Order Limits



Coordinate System: British National Grid



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Environmental Statement

Onshore Order Limits

Figure 4.26.10

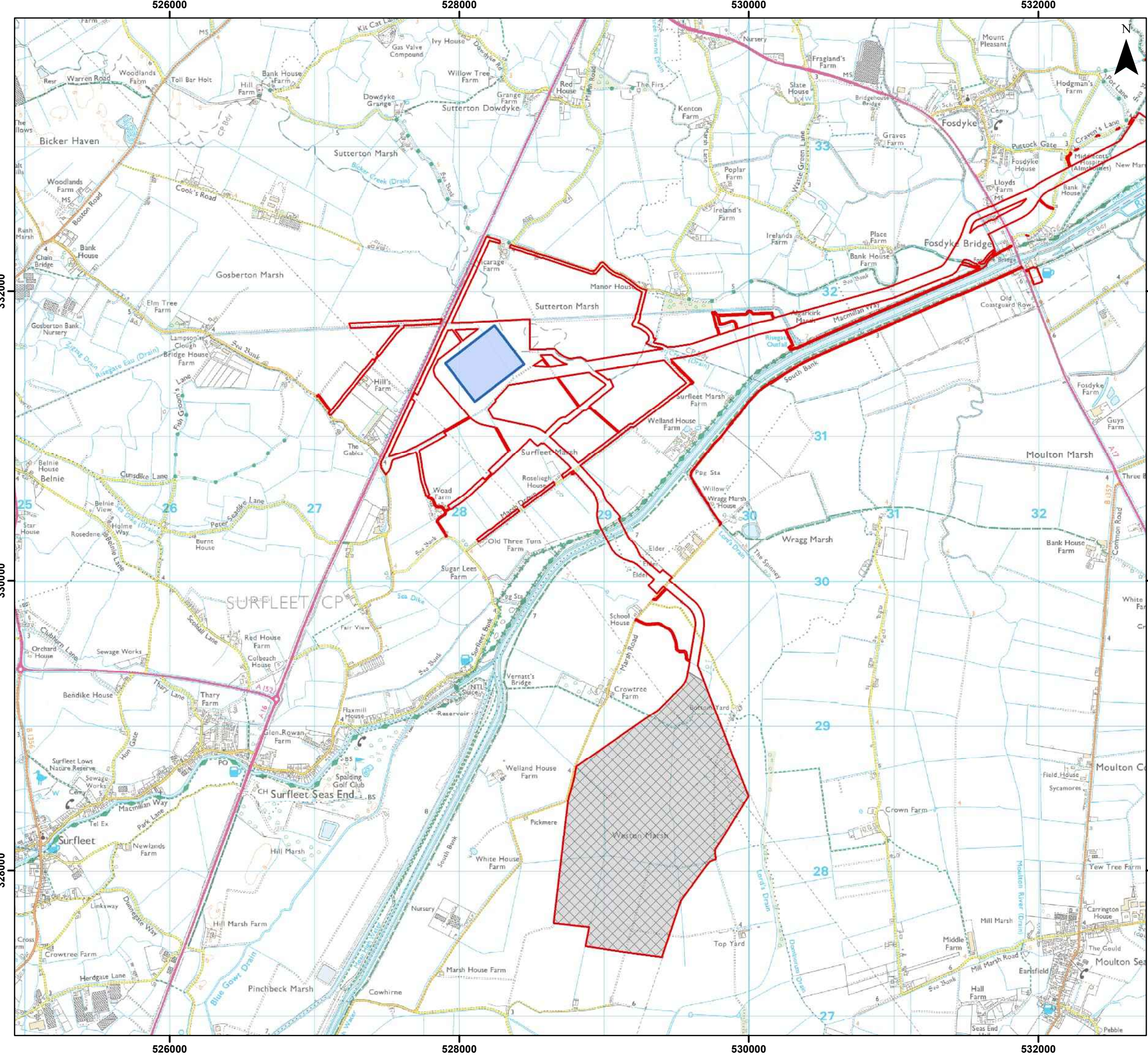


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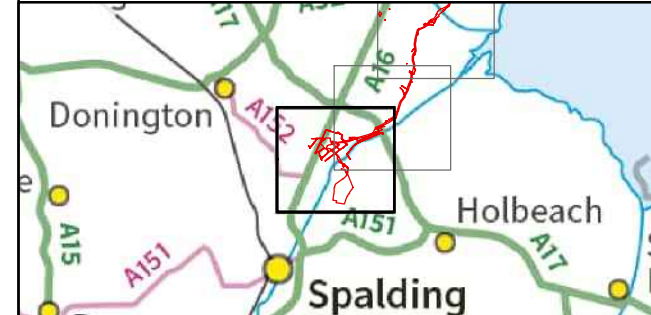
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Legend

- Order Limits
- Onshore Substation (OnSS) Footprint
- Connection Area



Coordinate System: British National Grid
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 Scale: 1:25,000
 A3 Page Size

Environmental Statement
 Onshore Order Limits
 Figure 4.26.11



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