East Coast Grid Spatial Study

Main Report - Appendix B Figures
April 2021

Prepared for:

THE CROWN ESTATE

Project Partners:

Marine Management Organisation

nationalgrid nationalgridESO

Quality information

Prepared by	Checked by	Verified by	Approved by
Ed Walker; Laura Craggs	Tom Cramond	Frank Fortune	David Ritchie

Revision history

Revision	Revision date	Details	Authorized	Name	Position
V0.1	19/11/2020	Draft for client review prior to finalisation	EW	Ed Walker	Senior Environmental Consultant
V0.2	20/04/2021	Final Draft	FF	Frank Fortune	Technical Director

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Prepared for:

The Crown Estate
1 St James's Market,
London, SW1Y 4AH
United Kingdom

Prepared by:

AECOM Limited
1 Tanfield
Edinburgh, EH3 5DA
United Kingdom

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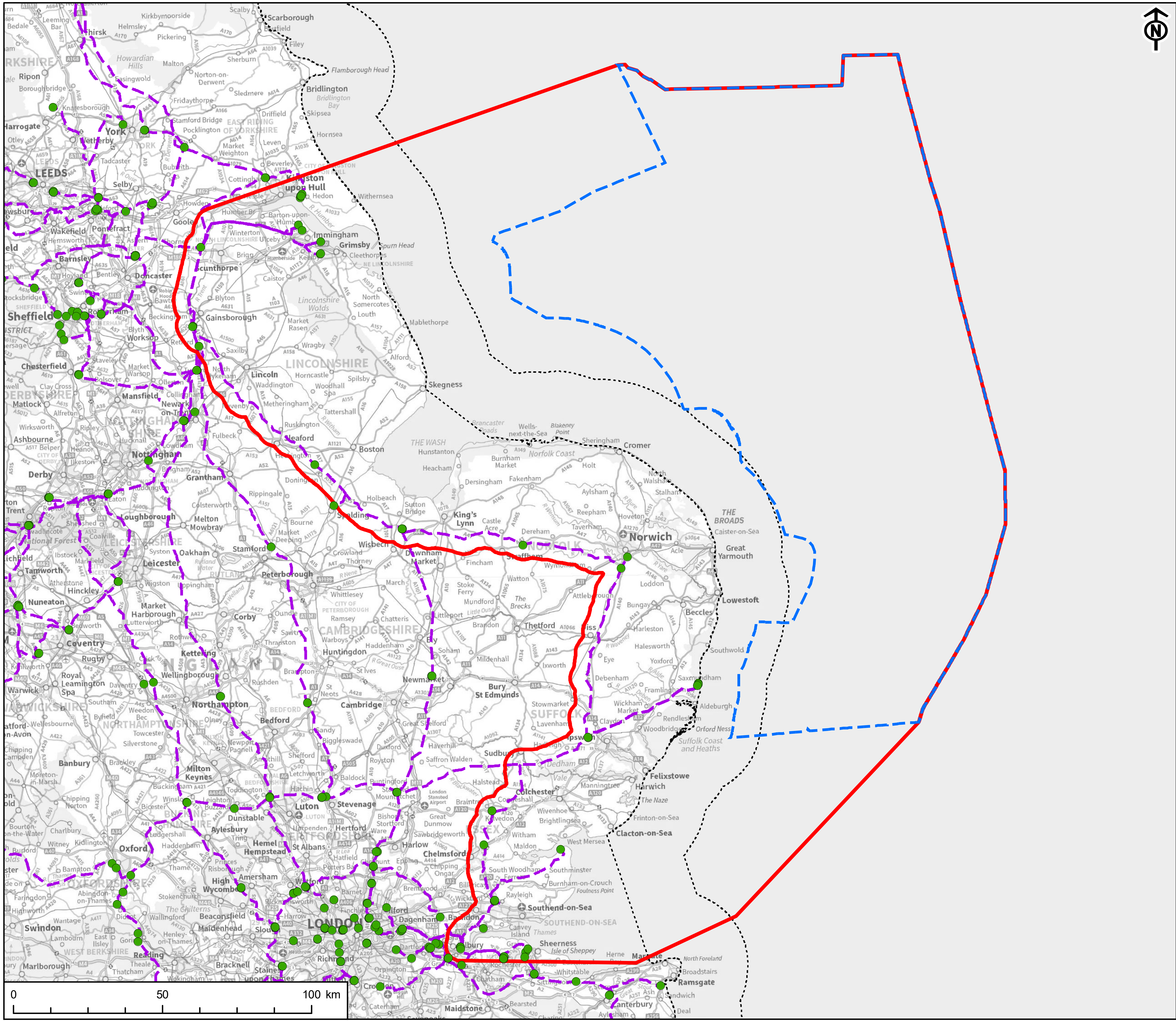

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PROJECT

EAST COAST GRID STUDY

CLIENT

THE CROWN ESTATE

KEY

- Study Area
- 12nm Zone Territorial Sea Limit
- R4 Bidding Area - Eastern Regions

Existing Transmission System

- Substation Location
- Overhead Line

TITLE

FIGURE B1
STUDY AREA: OVERVIEW

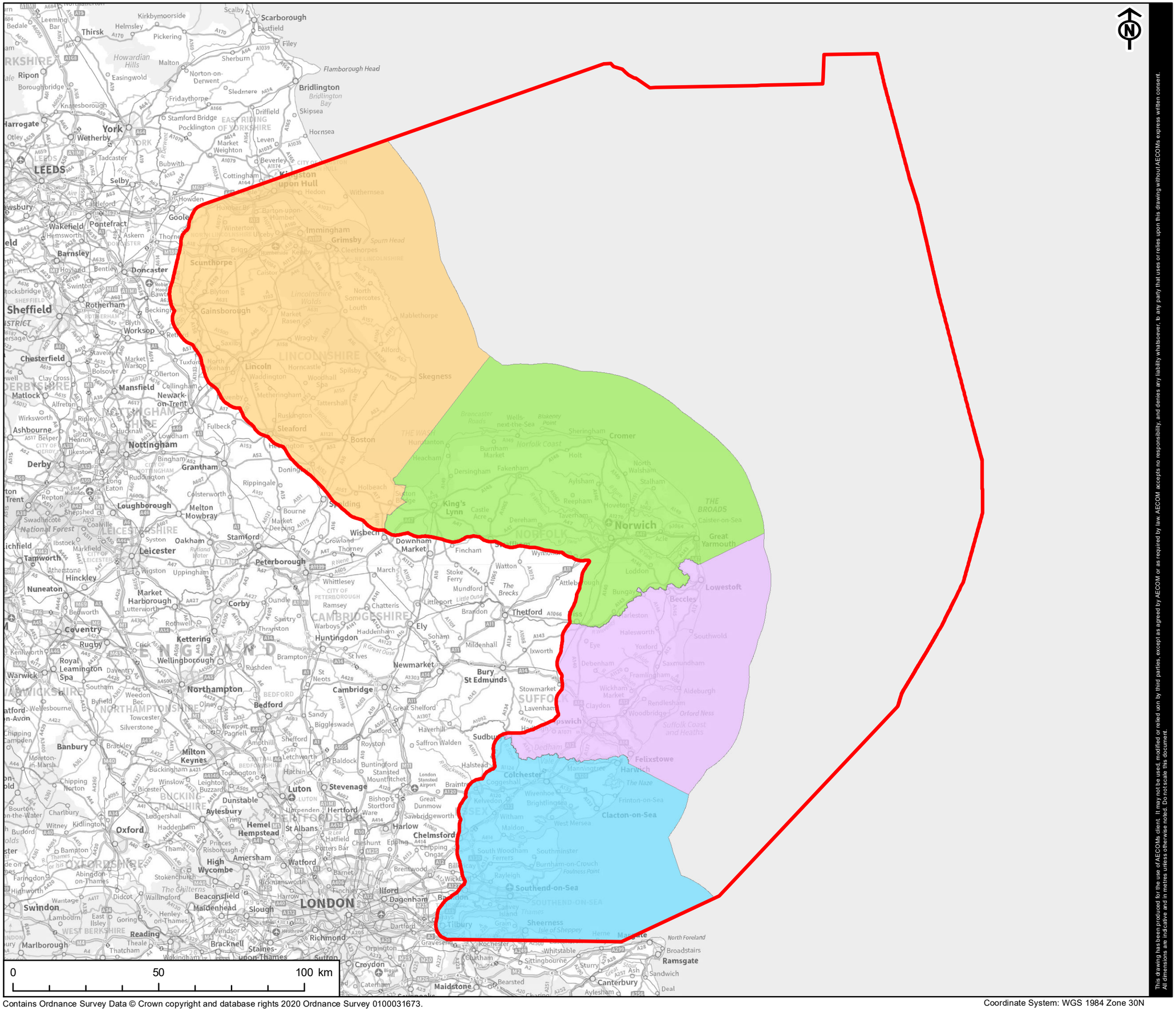
REFERENCE

ECGS_201112_3.1_v1

SHEET NUMBER | DATE

1 of 1 | 12/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area

Sub-region

- Lincolnshire
- Norfolk
- Suffolk
- Essex

TITLE
FIGURE B2
STUDY AREA: OVERVIEW

REFERENCE
ECGS_201112_3.2_v1

SHEET NUMBER
1 of 1

DATE
12/11/2020

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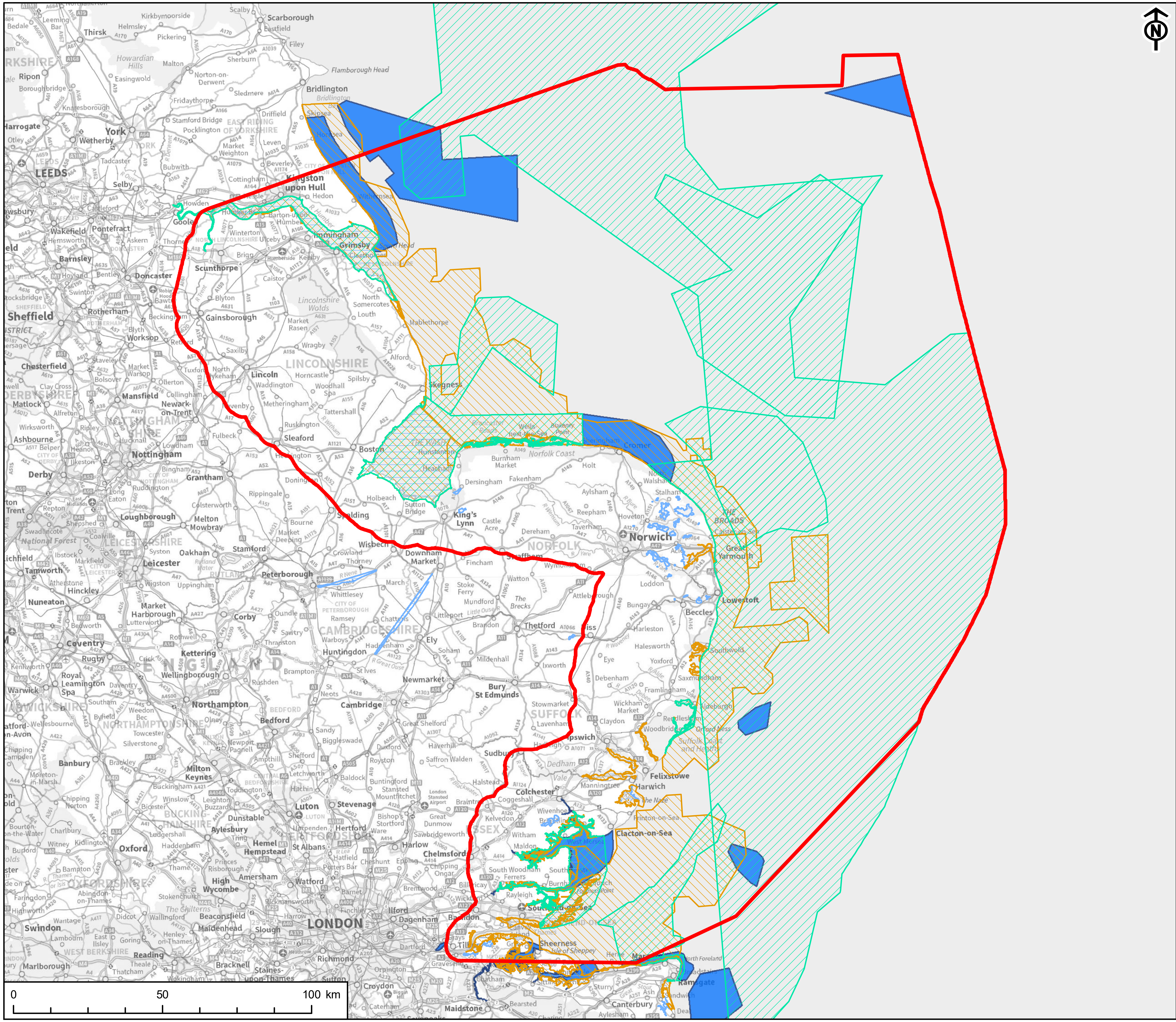

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PROJECT

EAST COAST GRID STUDY

CLIENT

THE CROWN ESTATE

KEY

- Study Area
- Special Area of
- Special Protection
- Ramsar
- Marine Conservation Zone

TITLE

FIGURE B3
OFFSHORE BIOLOGICAL ENVIRONMENTAL CONSTRAINTS

REFERENCE

ECGS_201113_3.3_v1

SHEET NUMBER	DATE
1 of 5	13/11/2020

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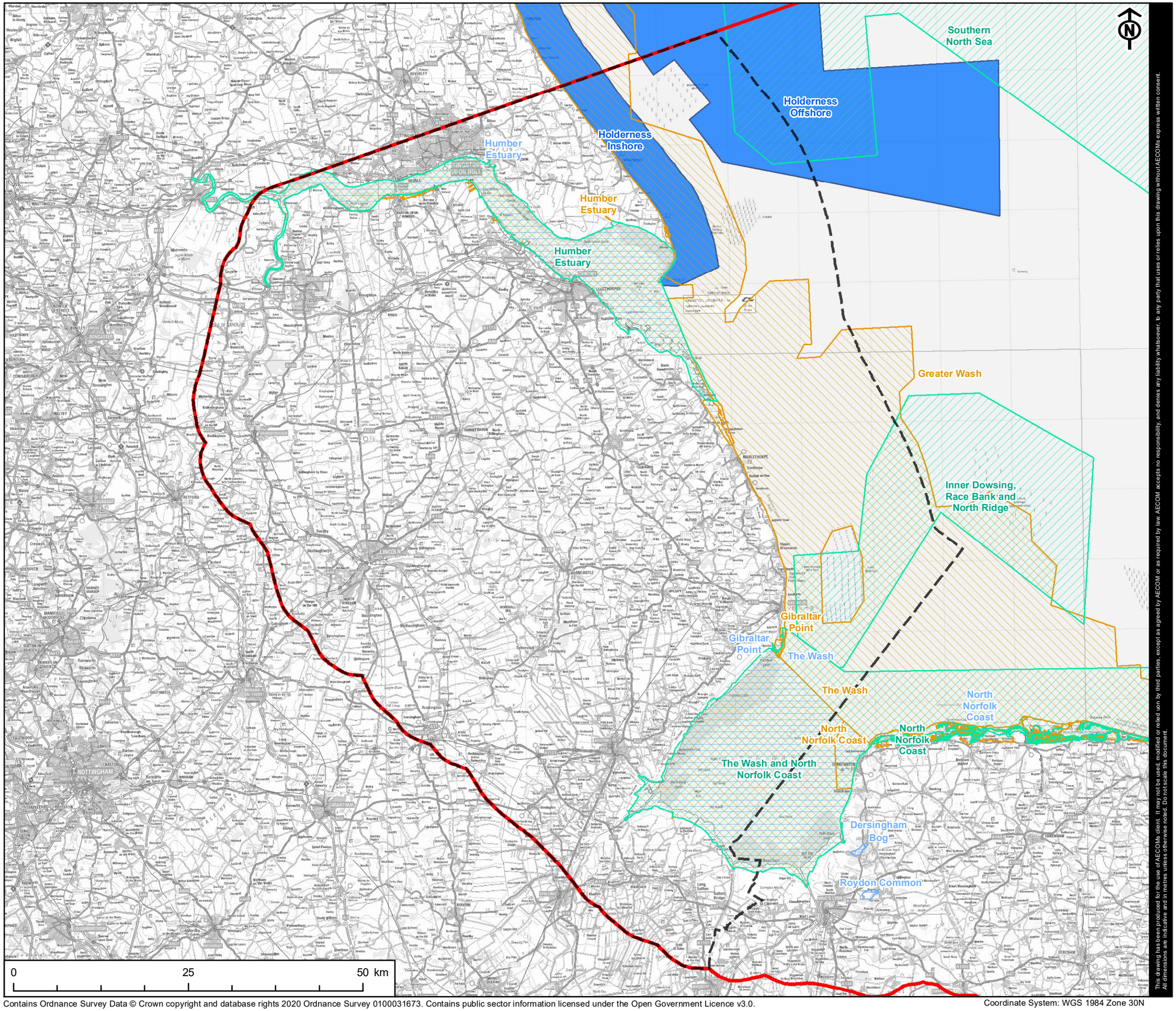

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY
- Study Area
- Lincolnshire Sub-region
- Special Area of Conservation
- Special Protection Area
- Ramsar
- Marine Conservation Zone

TITLE
FIGURE B3
OFFSHORE BIOLOGICAL ENVIRONMENTAL CONSTRAINTS
LINCOLNSHIRE SUB-REGION

REFERENCE
ECGS_201113_3.3_v1

SHEET NUMBER
2 of 5

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Humber Estuary
Humber Estuary
Humber Estuary
Inner Dowsing, Race Bank and North Ridge
North Norfolk Sandbanks and Saturn Reef
Greater Wash
Gibraltar Point
Gibraltar Point
The Wash
The Wash
Cromer Shoal Chalk Beds
North Norfolk Coast
North Norfolk Coast
North Norfolk Coast
The Wash and North Norfolk Coast
Haisborough, Hammond and Winterton
Dersingham Bog
Roydon Common
Broadland
Southern North Sea
Breydon Water
Breydon Water
Nene Washes
Ouse Washes
Outer Thames Estuary
Redgrave & South Lopham Fens
Minsmere-Walberswick
Minsmere-Walberswick
Alde-Ore Estuary
Alde-Ore Estuary
Alde, Ore and Butley Estuaries
Orfordness - Shingle Street
Orford Inshore

Scale @ A3 1:500,000

0 25 50 km

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY
- Study Area
- Norfolk Sub-region
- Special Area of Conservation
- Special Protection Area
- Ramsar
- Marine Conservation Zone

TITLE
FIGURE B3
OFFSHORE BIOLOGICAL ENVIRONMENTAL CONSTRAINTS
NORFOLK SUB-REGION

REFERENCE
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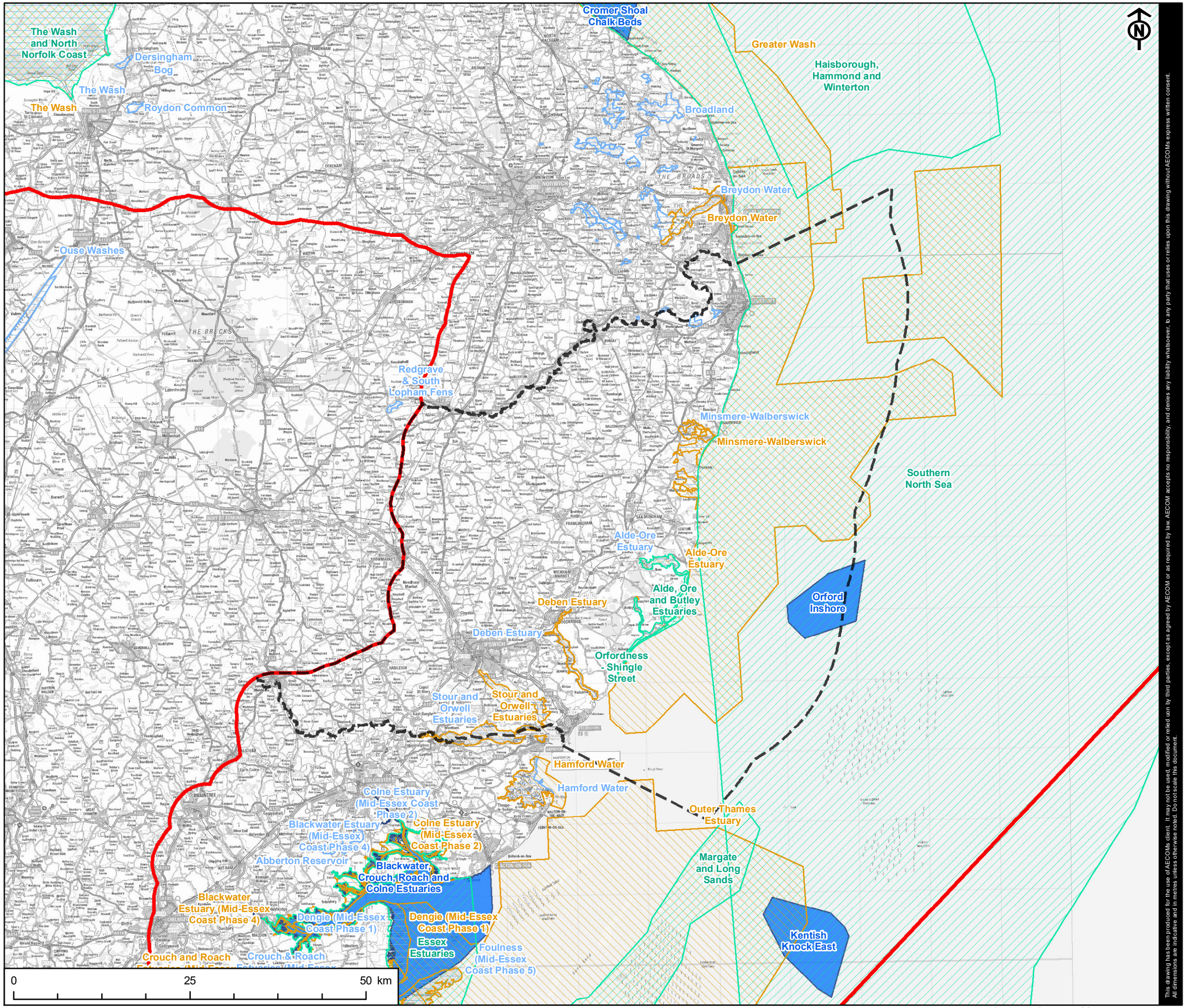

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY
- Study Area
- Suffolk Sub-region
- Special Area of Conservation
- Special Protection Area
- Ramsar
- Marine Conservation Zone

TITLE
FIGURE B3
OFFSHORE BIOLOGICAL ENVIRONMENTAL CONSTRAINTS
SUFFOLK SUB-REGION

REFERENCE
ECGS_201113_3.3_v1

SHEET NUMBER
4 of 5

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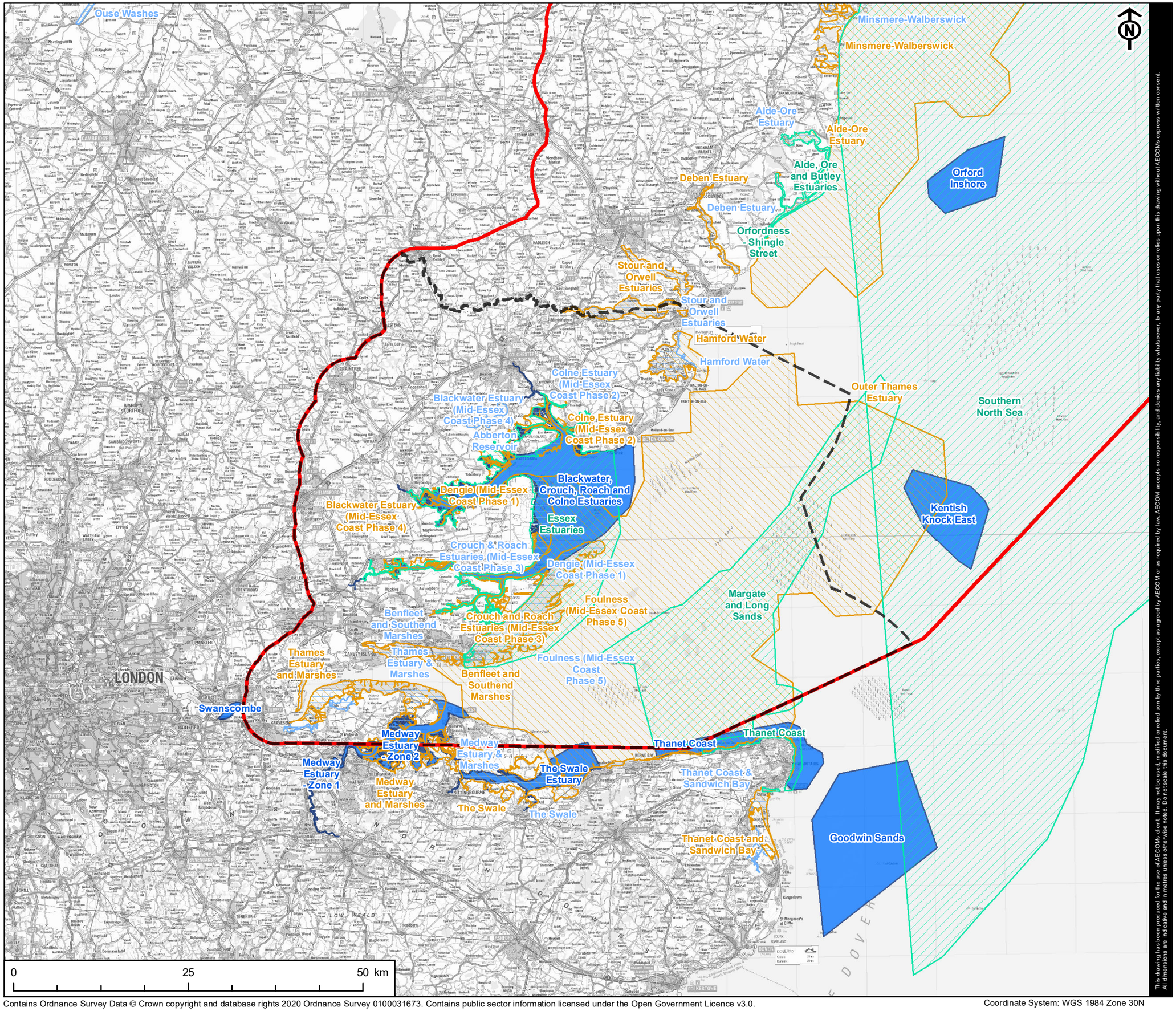

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY
- Study Area
- Essex Sub-region
- Special Area of Conservation
- Special Protection Area
- Ramsar
- Marine Conservation Zone

TITLE
FIGURE B3
OFFSHORE BIOLOGICAL ENVIRONMENTAL CONSTRAINTS
ESSEX SUB-REGION

REFERENCE
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5 of 5

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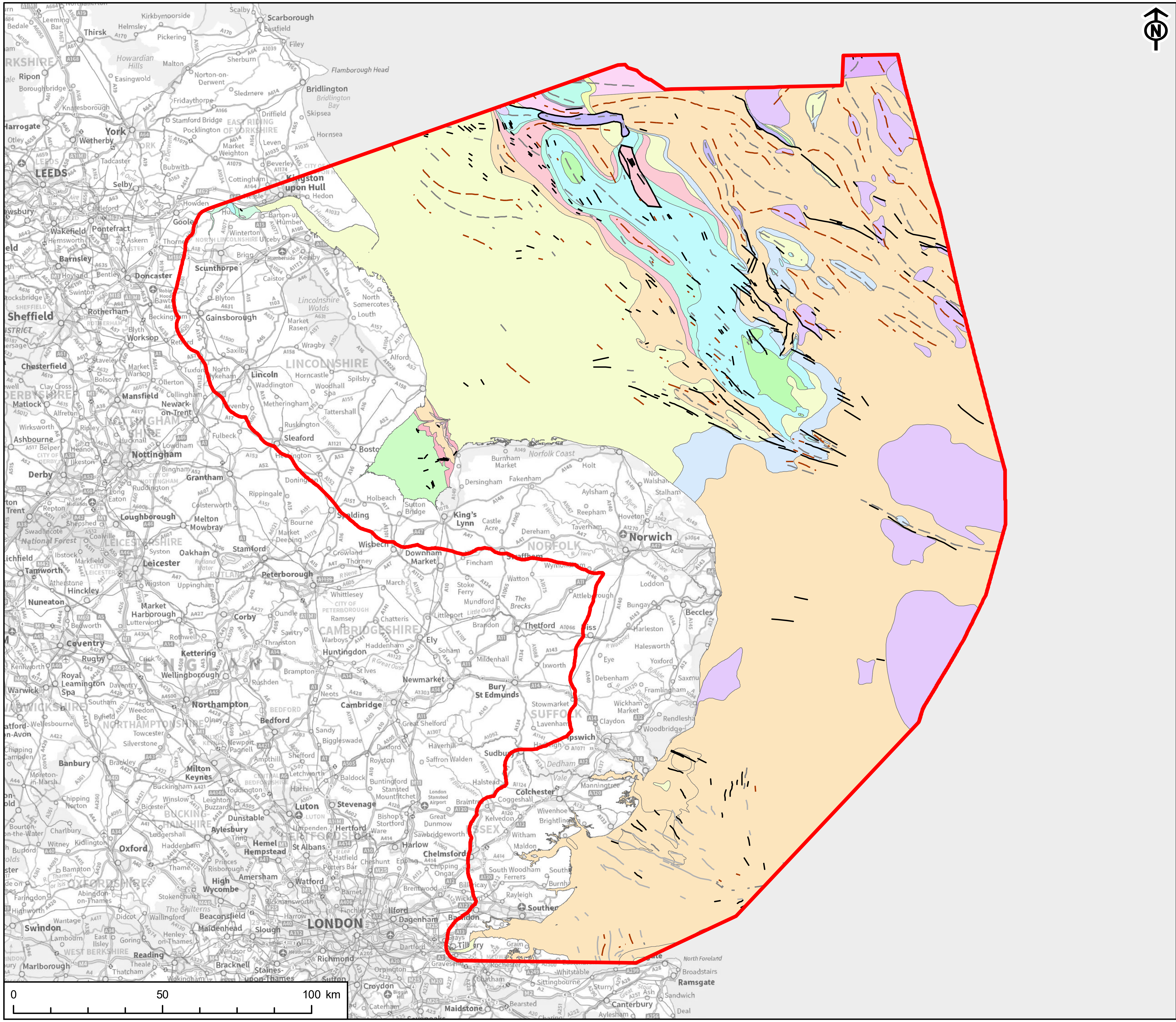

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PROJECT

EAST COAST GRID STUDY

CLIENT

THE CROWN ESTATE

KEY

- Study Area
- Anticline
- Fault
- Monocline
- Syncline

Bedrock Geology - Material

- Chalk
- Limestone
- Limestone, Sandstone, Siltstone and Mudstone
- Mudstone
- Mudstone and Gypsum-Stone
- Mudstone and Halite-Stone
- Mudstone and Ironstone
- Mudstone and Limestone
- Mudstone, Limestone, Mudstone and Calcareous
- Mudstone and Sandstone and Lignite
- Mudstone, Sandstone and Tuff
- Mudstone and Siltstone
- Mudstone, Siltstone and Sandstone
- Mudstone and Tuff
- Rock, Siliciclastic, Argillaceous
- Rock, Siliciclastic, Argillaceous and Sandstone
- Rock, Siliciclastic, Argillaceous with Sandstone and Non-Carbonate Salt-Rock
- Sand
- Sandstone
- Sandstone and Mudstone

TITLE

FIGURE B4A
OFFSHORE PHYSICAL ENVIRONMENTAL CONSTRAINTS - GEOLOGY

REFERENCE

ECGS_201113_3.4A_v1

SHEET NUMBER 1 of 1

DATE 13/11/2020

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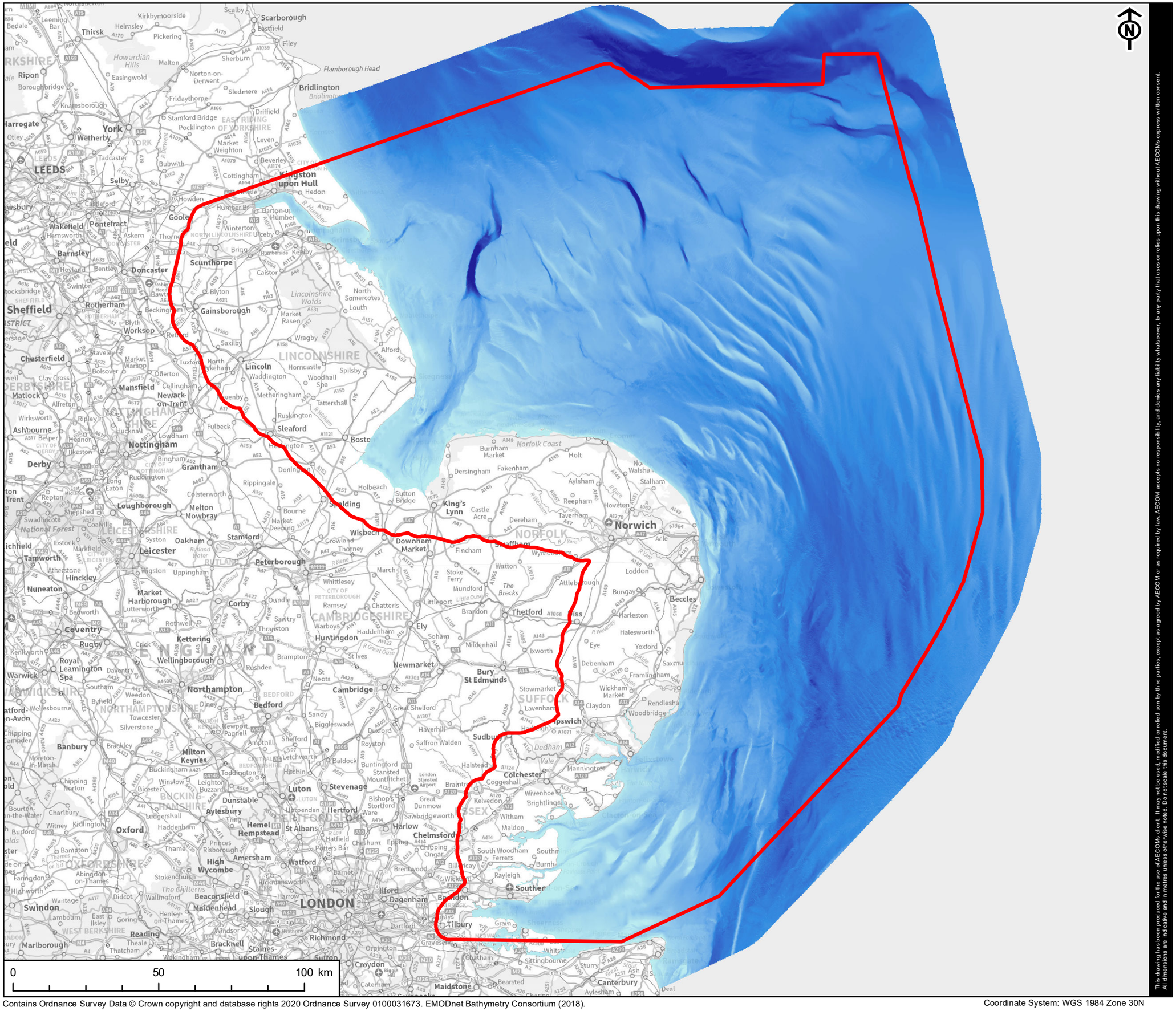

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

Study Area

Mean Water Depth - 2018 (m)

-38

98

TITLE
FIGURE B4B
OFFSHORE PHYSICAL ENVIRONMENTAL CONSTRAINTS - BATHYMETRY

REFERENCE
ECGS_201113_3.4B_v1

SHEET NUMBER
1 of 1

DATE
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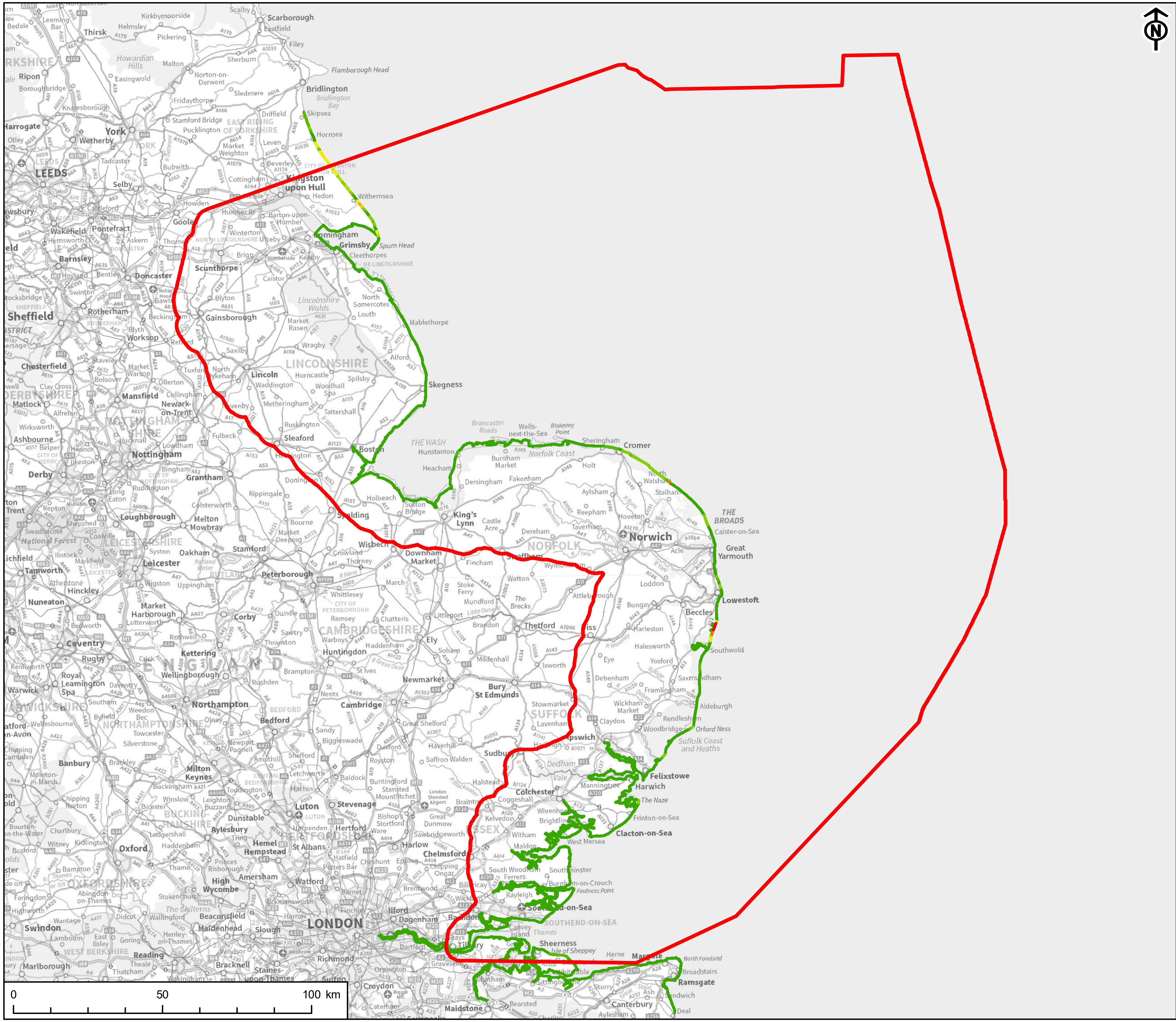

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

Study Area

Retreat distance in meters for Short-term (0-20yr) with Shoreline Management Plan Policy Intervention at 50%-ile confidence

- 0 - 13
- 14 - 26
- 27 - 39
- 40 - 52
- 53 - 65
- 66 - 78
- 79 - 91
- 92 - 104
- 105 - 117
- 118 - 130

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TITLE
FIGURE B4C
OFFSHORE PHYSICAL ENVIRONMENTAL CONSTRAINTS - COASTAL EROSION

REFERENCE
ECGS_201113_3.4C_v1

SHEET NUMBER
1 of 5

DATE
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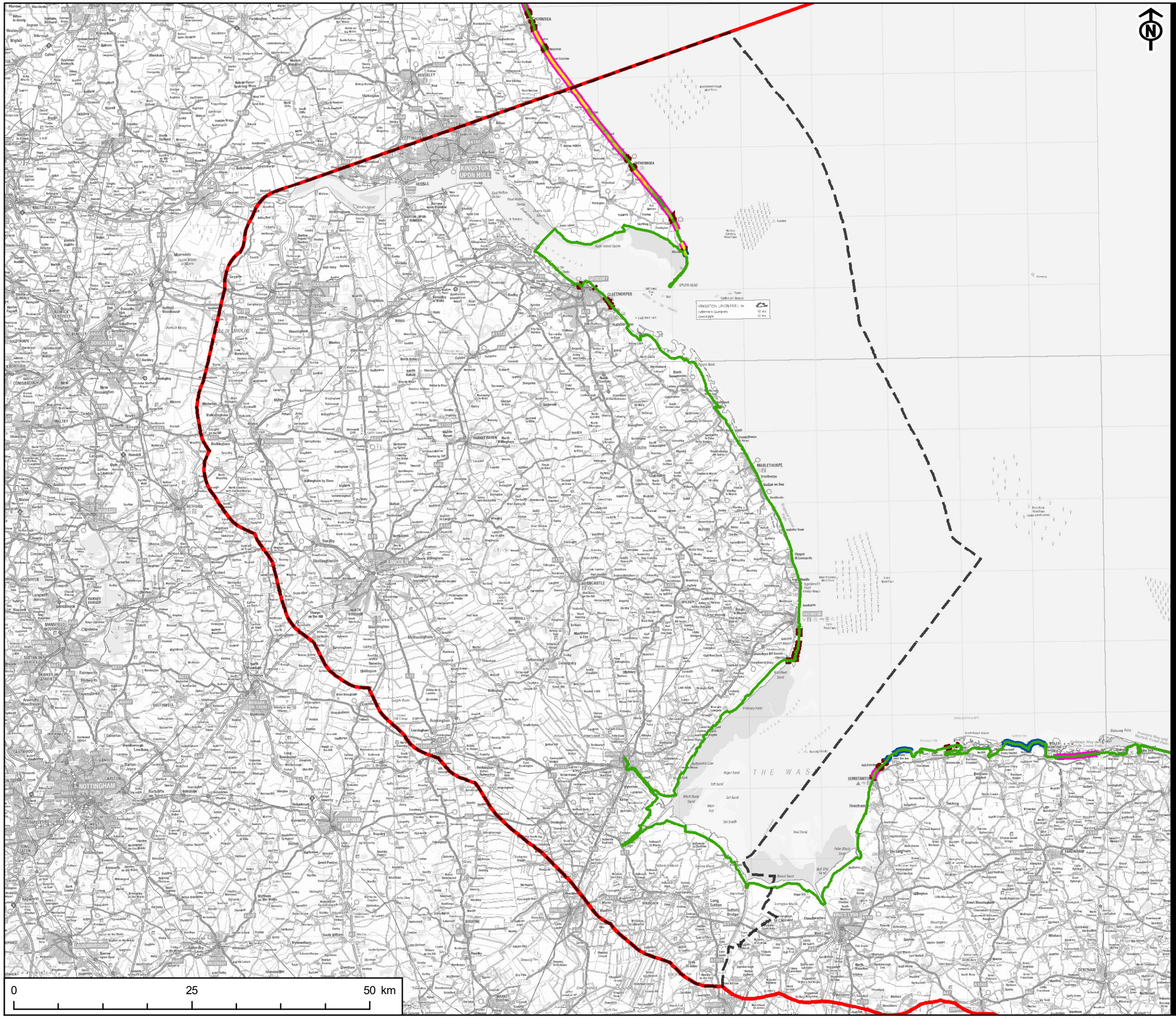

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Lincolnshire Sub-region

Retreat distance in meters for Short-term (0-20yr) with Shoreline Management Plan Policy Intervention at 50%-ile confidence

- 0 - 13
- 14 - 26
- 27 - 39
- 40 - 52
- 53 - 65
- 66 - 78
- 79 - 91

Short-term Shoreline Management Plan Policy

- Hold the line
- No active intervention
- Managed realignment

TITLE
FIGURE B4C
OFFSHORE PHYSICAL ENVIRONMENTAL CONSTRAINTS - COASTAL EROSION
LINCOLNSHIRE SUB-REGION

REFERENCE
ECGS_201113_3.4C_v1

SHEET NUMBER
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DATE
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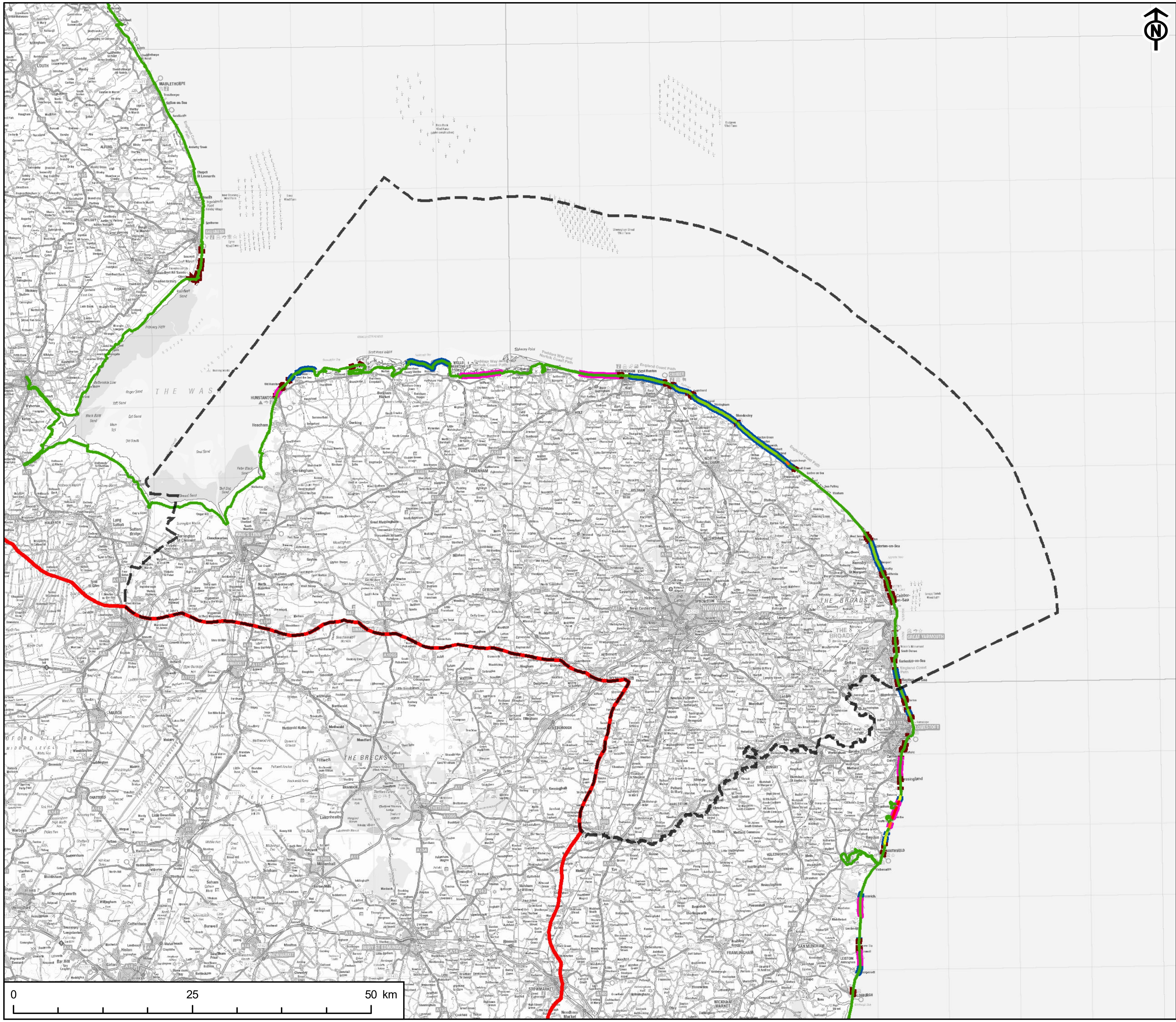

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY
- Study Area
- Norfolk Sub-region

Retreat distance in meters for Short-term (0-20yr) with Shoreline Management Plan Policy Intervention at 50%-ile confidence
- 0 - 13
- 14 - 26
- 27 - 39
- 40 - 52
- 53 - 65
- 92 - 104
- 118 - 130

Short-term Shoreline Management Plan Policy
- Hold the line
- No active intervention
- Managed realignment

TITLE
FIGURE B4C
OFFSHORE PHYSICAL ENVIRONMENTAL CONSTRAINTS - COASTAL EROSION NORFOLK SUB-REGION

REFERENCE
ECGS_201113_3.4C_v1

SHEET NUMBER: 3 of 5
DATE: 13/11/2020

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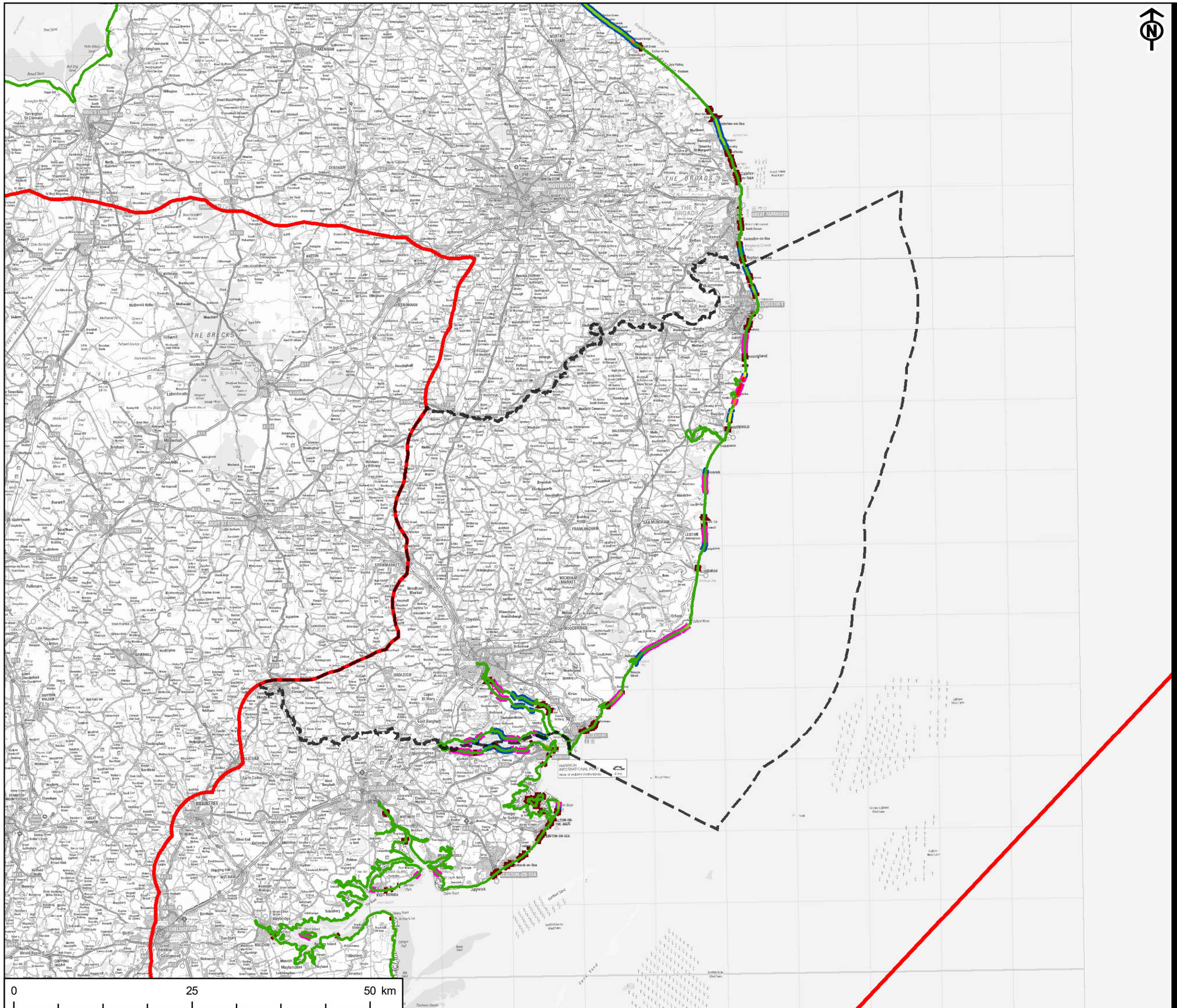

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Suffolk Sub-region

Retreat distance in meters for Short-term (0-20yr) with Shoreline Management Plan Policy Intervention at 50%-ile confidence

- 0 - 13
- 14 - 26
- 27 - 39
- 40 - 52
- 53 - 65
- 92 - 104
- 118 - 130

Short-term Shoreline Management Plan Policy

- Hold the line
- No active intervention
- Managed realignment
- Advance the line

TITLE
FIGURE B4C
OFFSHORE PHYSICAL ENVIRONMENTAL CONSTRAINTS - COASTAL EROSION SUFFOLK SUB-REGION

REFERENCE
ECGS_201113_3.4C_v1

SHEET NUMBER
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DATE
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0 25 50 km

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Essex Sub-region

Retreat distance in meters for Short-term (0-20yr) with Shoreline Management Plan Policy Intervention at 50%-ile confidence

- 0 - 13
- 14 - 26
- 27 - 39

Short-term Shoreline Management Plan Policy

- Hold the line
- No active intervention
- Managed realignment
- Advance the line

TITLE
FIGURE B4C
OFFSHORE PHYSICAL ENVIRONMENTAL CONSTRAINTS - COASTAL EROSION ESSEX SUB-REGION

REFERENCE
ECGS_201113_3.4C_v1

SHEET NUMBER
5 of 5

DATE
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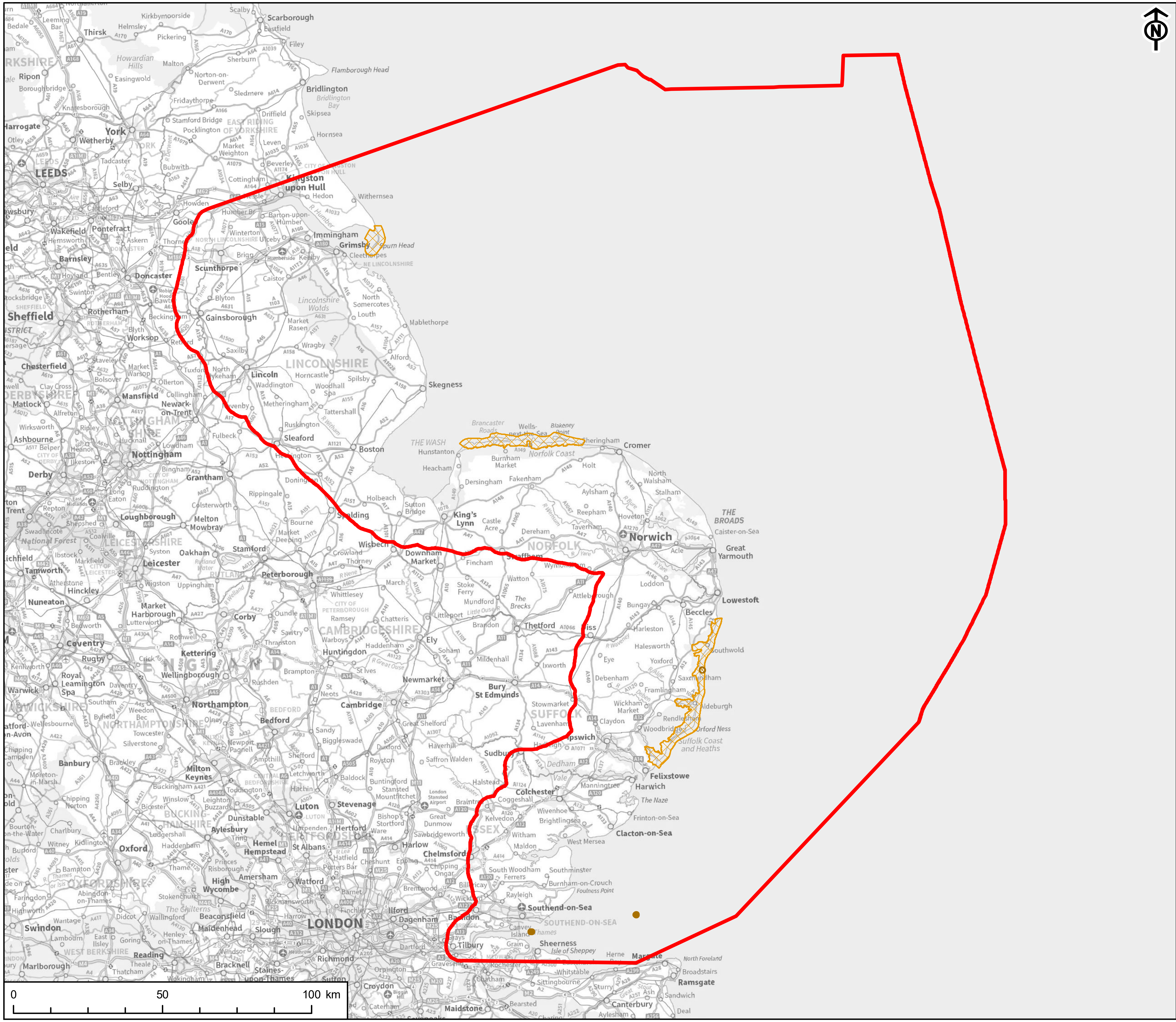

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PROJECT

EAST COAST GRID STUDY

CLIENT

THE CROWN ESTATE

KEY

- Study Area
- Protected Wreck
- Heritage Coast

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TITLE

FIGURE B5
OFFSHORE HISTORIC ENVIRONMENTAL CONSTRAINTS

REFERENCE

ECGS_201113_3.5_v1

SHEET NUMBER	DATE
1 of 1	13/11/2020

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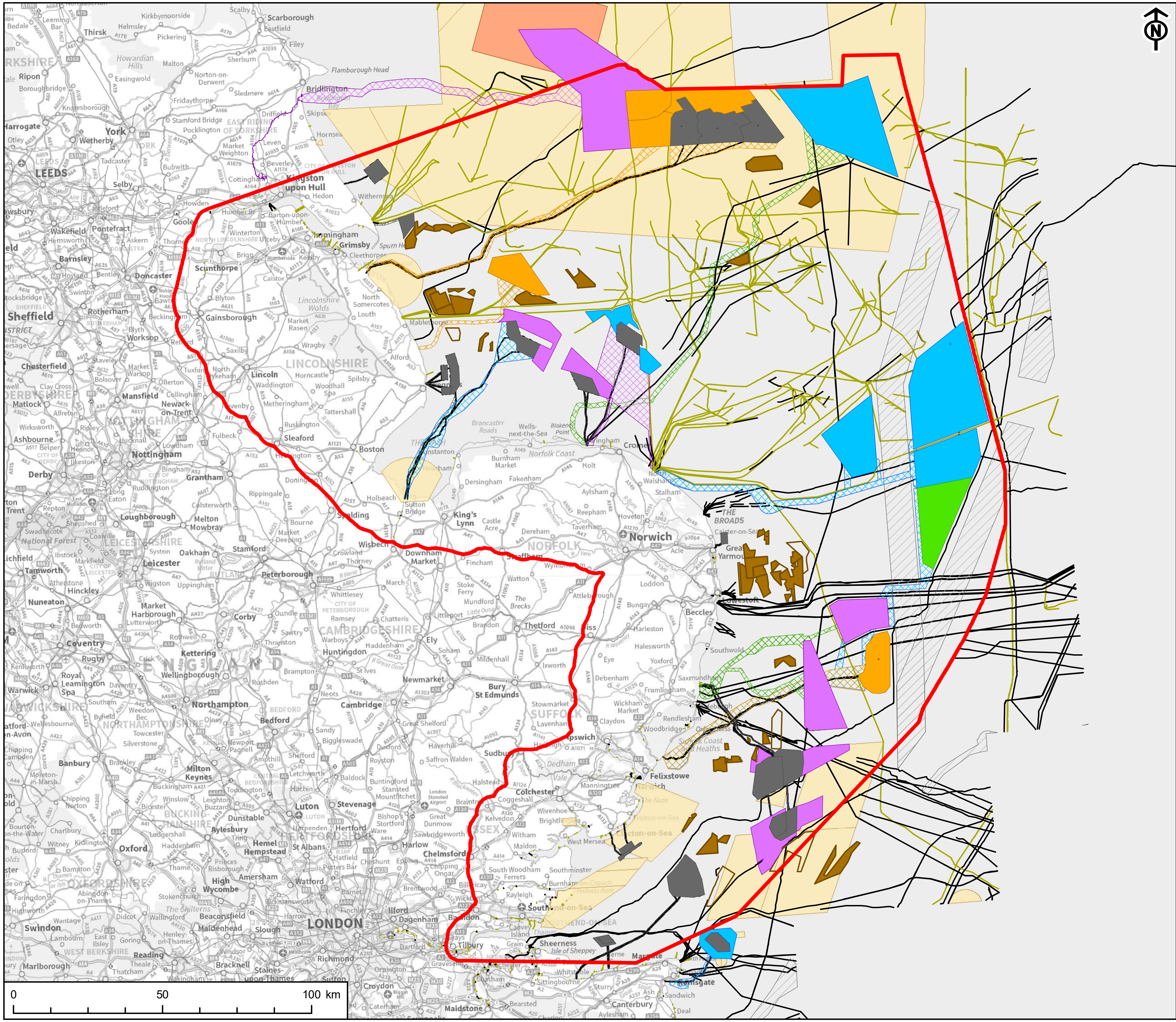

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PROJECT

EAST COAST GRID STUDY

CLIENT

THE CROWN ESTATE

KEY

- Study Area
- Cable
- Pipeline
- Traffic Separation & Deep Water Channel
- Carbon Capture and Storage Site
- Military Practice Area

Offshore Wind Site

- Active/In Operation
- Under Construction
- Consented
- In Planning
- Pre-planning Application

Offshore Wind Cable Agreement

- Active/In Operation
- Under Construction
- Consented
- In Planning
- Pre-planning Application

Marine Aggregates Site

- Production Area
- Exploration and Option Area

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TITLE

FIGURE B6
OFFSHORE OTHER SEA USERS /
OTHER INFRASTRUCTURE

REFERENCE

ECGS_201118_3.6_v1

SHEET NUMBER 1 of 5

DATE 18/11/2020

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Coordinate System: WGS 1984 Zone 30N

Project Management Initials: DR Designer: LC Checked: FF Approved: DR

Westermost Rough
Humber Gateway
Triton Knoll
Race Bank Extension
Race Bank
Sheringham Extension
Sheringham Shoal
Lincs
Inner Dowsing
Lynn

Scale @ A3 1:500,000

0 25 50 km

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Lincolnshire Sub-region
- Cable
- Pipeline
- Military Practice Area

Offshore Wind Site
- Active/In Operation
- Under Construction

Offshore Wind Cable Agreement
- Active/In Operation
- Under Construction
- Consented
- In Planning

Marine Aggregates Site
- Production Area
- Exploration and Option Area

TITLE
FIGURE B6
OFFSHORE OTHER SEA USERS / OTHER INFRASTRUCTURE
LINCOLNSHIRE SUB-REGION

REFERENCE
ECGS_201118_3.3_v1

SHEET NUMBER
2 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR

Triton Knoll
Race Bank Extension
Race Bank
Dudgeon Extension
Dudgeon
Sheringham Extension
Sheringham Shoal
Lincs
Inner Dowsing
Lynn
Norfolk Vanguard West
Scroby Sands
East Anglia One North
East Anglia Two

Scale @ A3 1:500,000

0 25 50 km

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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Norfolk Sub-region
- Cable
- Pipeline
- Military Practice Area

Offshore Wind Site
- Active/In Operation
- Under Construction
- In Planning
- Pre-planning Application

Offshore Wind Cable Agreement
- Active/In Operation
- Under Construction
- Consented
- In Planning
- Pre-planning Application

Marine Aggregates Site
- Production Area
- Exploration and Option Area

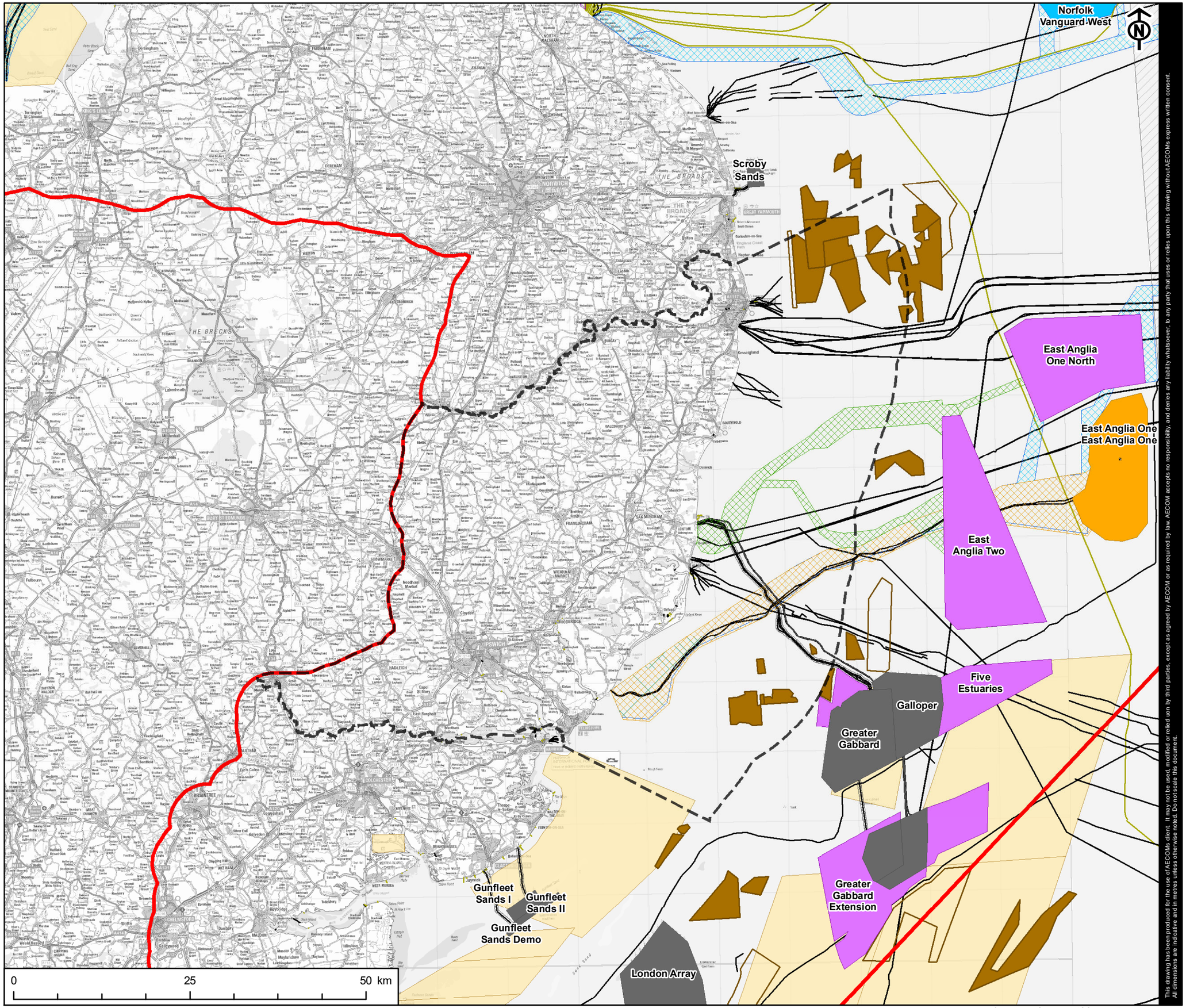
TITLE
FIGURE B6
OFFSHORE OTHER SEA USERS / OTHER INFRASTRUCTURE
NORFOLK SUB-REGION

REFERENCE
ECGS_201118_3.3_v1

SHEET NUMBER
3 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Suffolk Sub-region
- Cable
- Pipeline
- Traffic Separation & Deep Water Channel
- Military Practice Area

Offshore Wind Site
- Active/In Operation
- Under Construction
- In Planning
- Pre-planning Application

Offshore Wind Cable Agreement
- Active/In Operation
- Under Construction
- Consented
- In Planning
- Pre-planning Application

Marine Aggregates Site
- Production Area
- Exploration and Option Area

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TITLE
FIGURE B6
OFFSHORE OTHER SEA USERS / OTHER INFRASTRUCTURE
SUFFOLK SUB-REGION

REFERENCE
ECGS_201118_3.3_v1

SHEET NUMBER
4 of 5

DATE
18/11/2020

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Coordinate System: WGS 1984 Zone 30N

Project Management Initials: DR Designer: LC Checked: FF Approved: DR

East Anglia Two
Five Estuaries
Galloper
Greater Gabbard
Greater Gabbard Extension
London Array
Gunfleet Sands I
Gunfleet Sands II
Gunfleet Sands Demo
Kentish Flats
Kentish Flats Extension
Thanet Extension
Thanet
LONDON

Scale @ A3 1:500,000

0 25 50 km

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Essex Sub-region
- Cable
- Pipeline
- Traffic Separation & Deep Water Channel
- Military Practice Area

Offshore Wind Site
- Active/In Operation
- In Planning
- Pre-planning Application

Offshore Wind Cable Agreement
- Active/In Operation
- Under Construction
- Consented
- In Planning

Marine Aggregates Site
- Production Area
- Exploration and Option Area

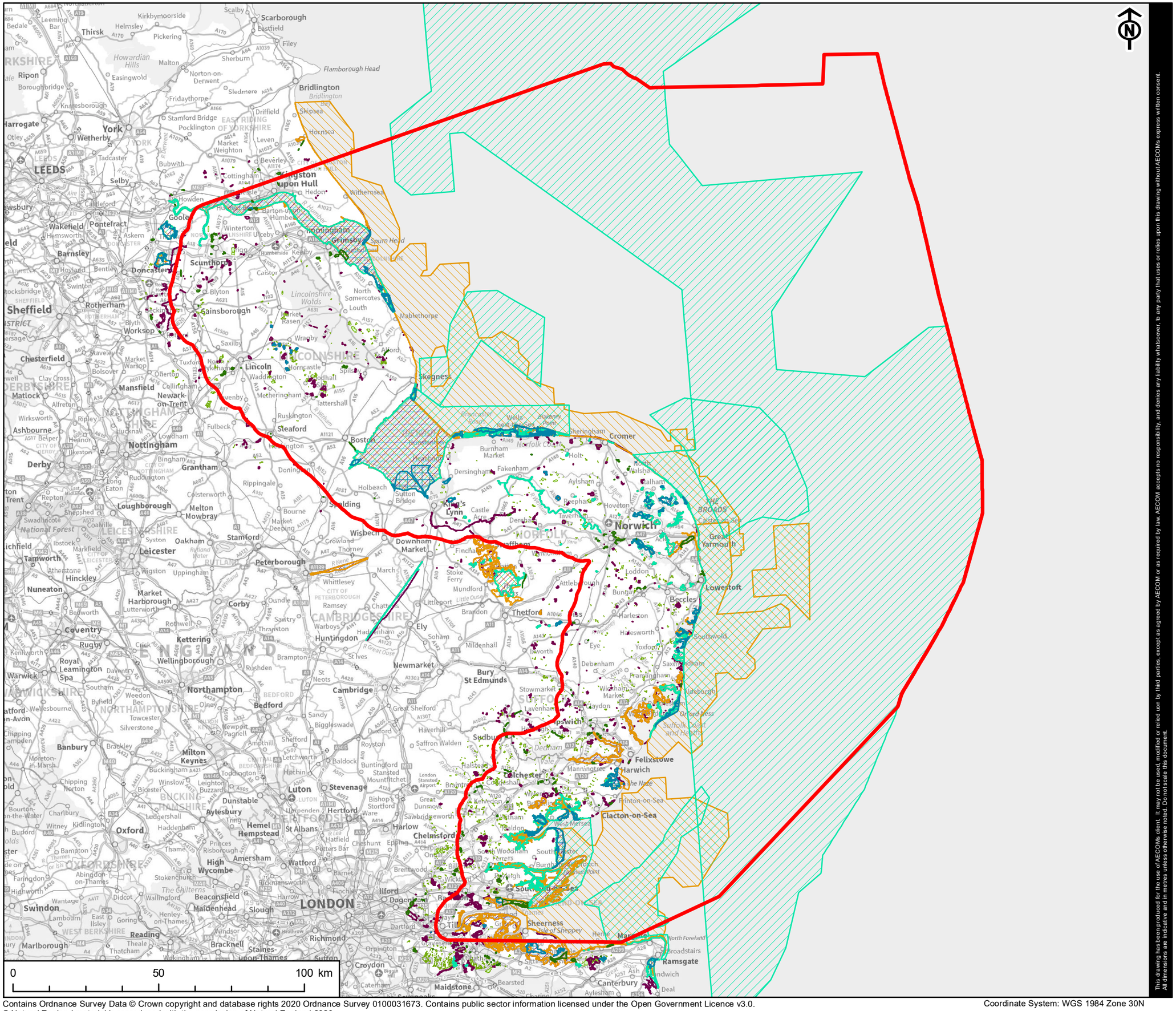
TITLE
FIGURE B6
OFFSHORE OTHER SEA USERS / OTHER INFRASTRUCTURE
ESSEX SUB-REGION

REFERENCE
ECGS_201118_3.3_v1

SHEET NUMBER
5 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Ancient Woodland
- Local Nature Reserve
- National Nature Reserve
- Ramsar Site
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest

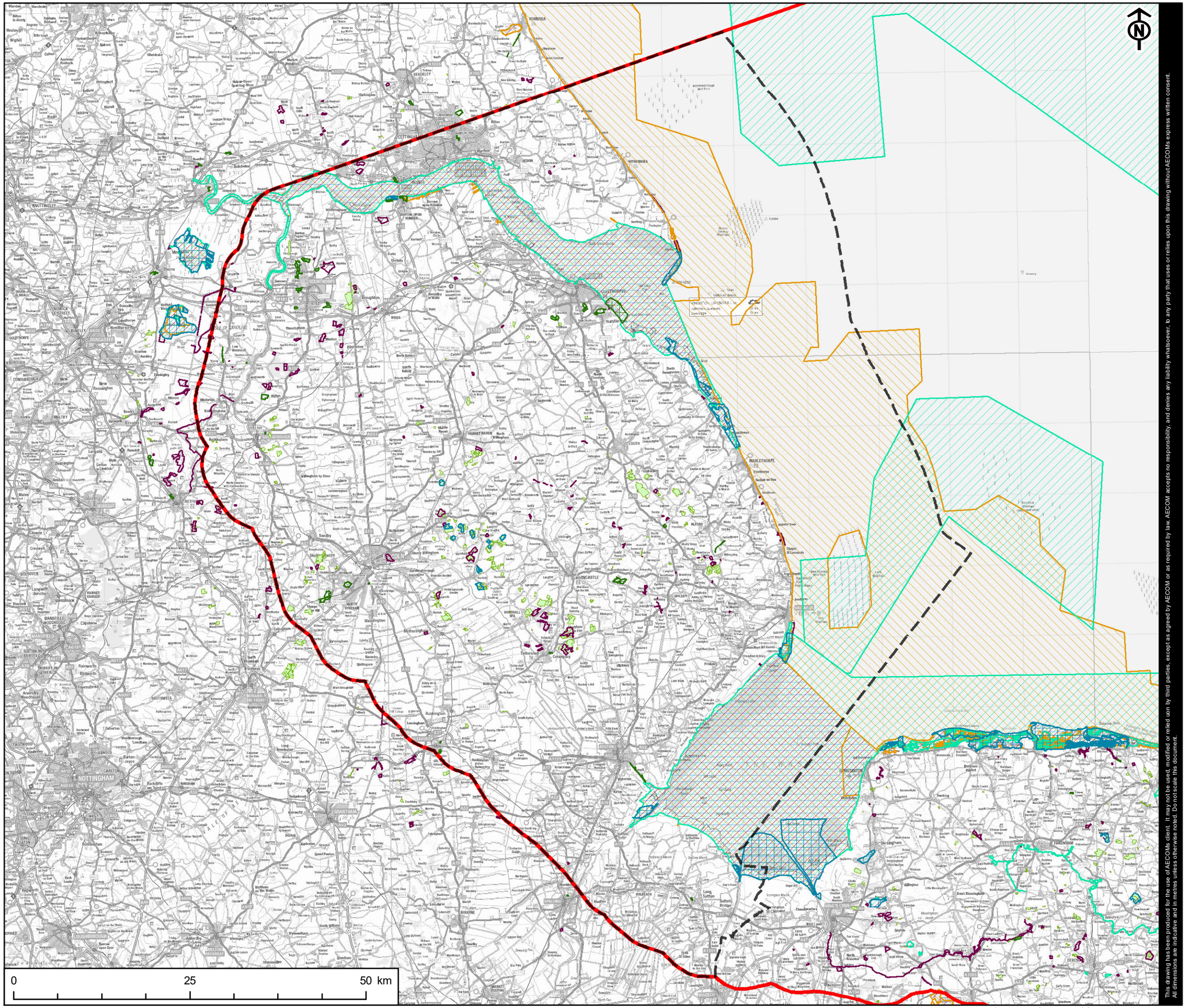
TITLE
FIGURE B7
ONSHORE BIOLOGICAL ENVIRONMENTAL CONSTRAINTS

REFERENCE
ECGS_201113_3.7_v1

SHEET NUMBER
1 of 5

DATE
13/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Lincolnshire Sub-region
- Local Nature Reserve
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Ancient Woodland

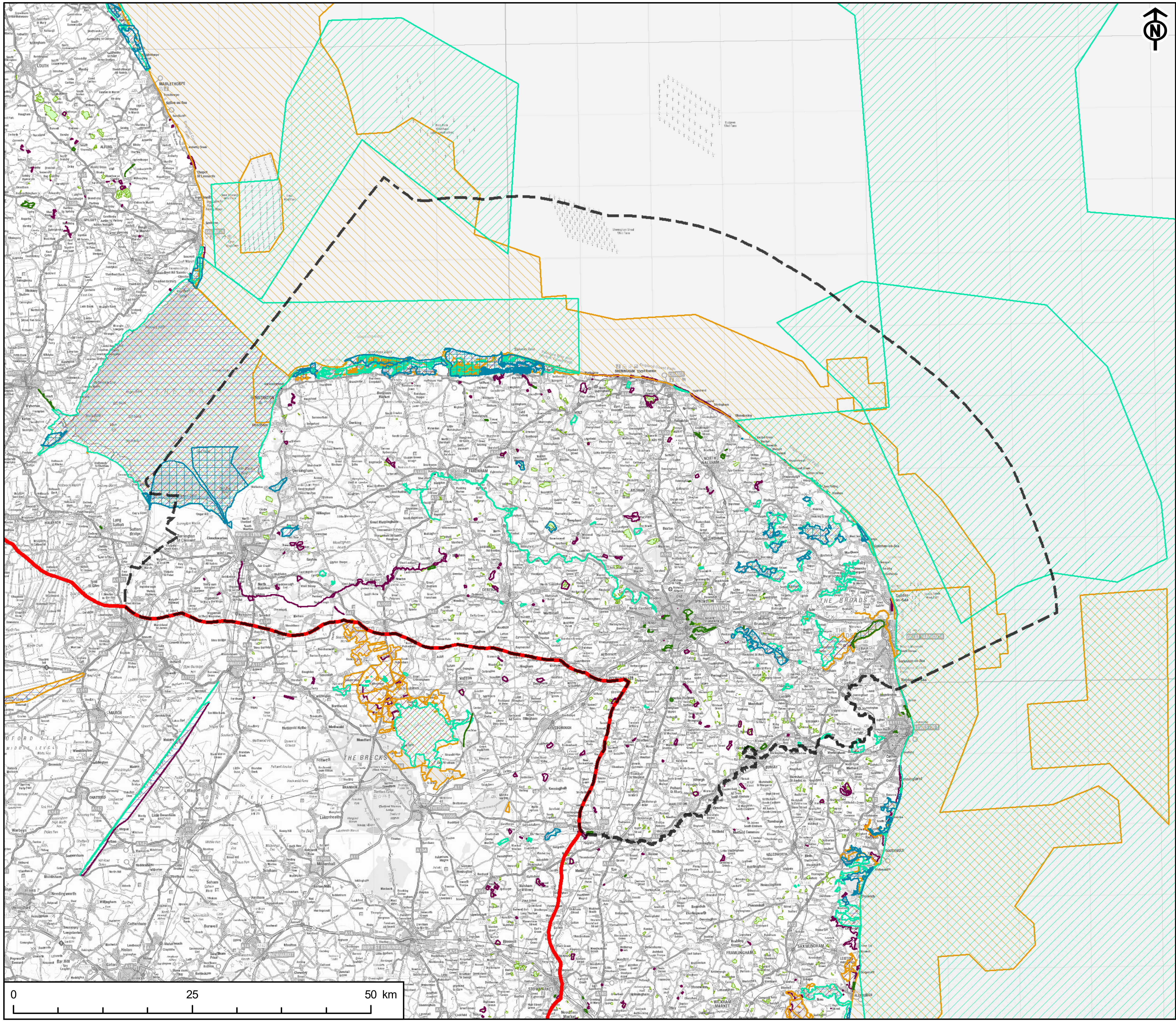
TITLE
FIGURE B7
ONSHORE BIOLOGICAL ENVIRONMENTAL CONSTRAINTS
LINCOLNSHIRE SUB-REGION

REFERENCE
ECGS_201113_3.7_v1

SHEET NUMBER
2 of 5

DATE
13/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY
- Study Area
- Norfolk Sub-region
- Local Nature Reserve
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Ancient Woodland

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TITLE
FIGURE B7
ONSHORE BIOLOGICAL ENVIRONMENTAL CONSTRAINTS
NORFOLK SUB-REGION

REFERENCE
ECGS_201113_3.7_v1

SHEET NUMBER	DATE
3 of 5	13/11/2020

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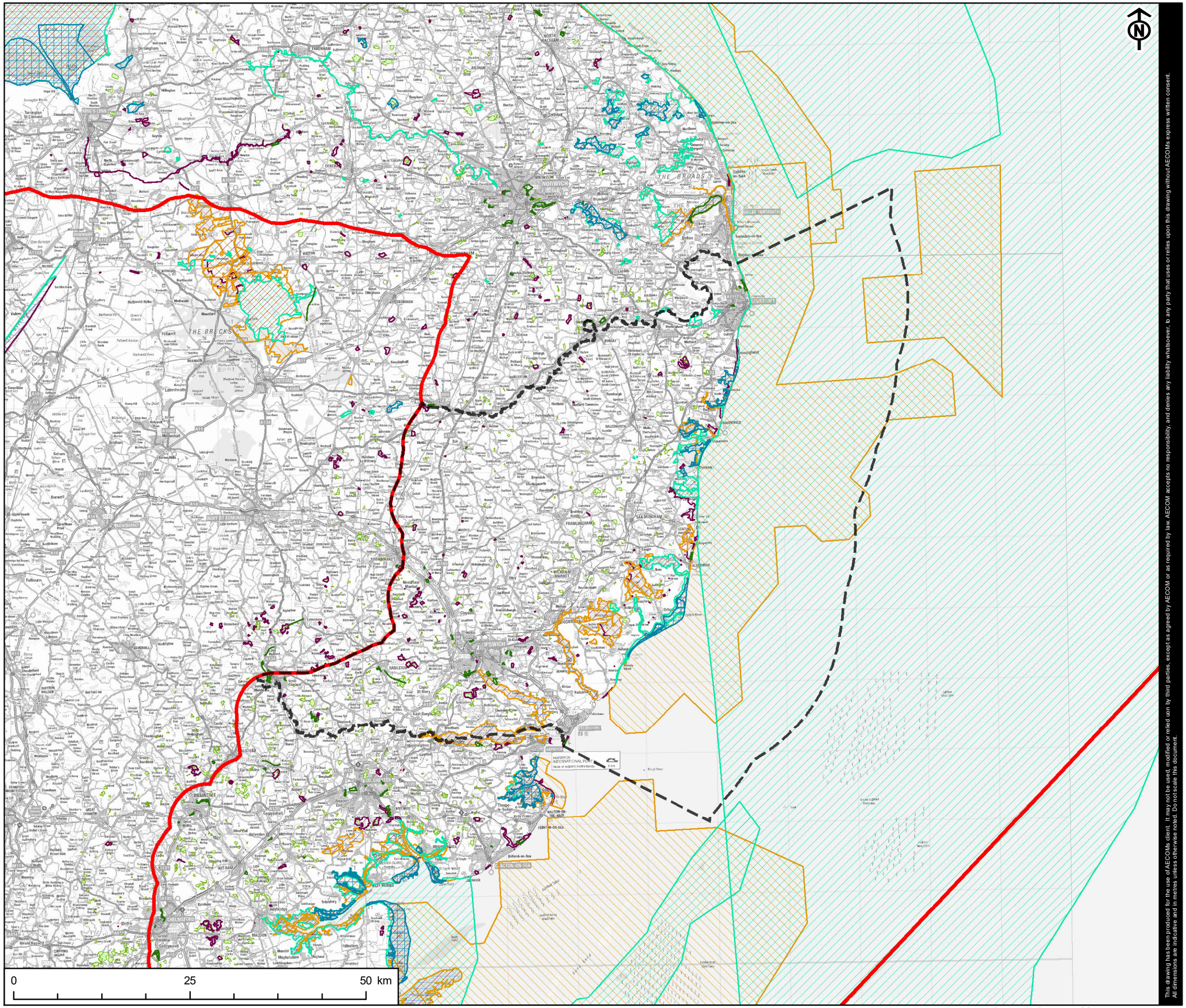
Coordinate System: WGS 1984 Zone 30N

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Suffolk Sub-region
- Local Nature Reserve
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Ancient Woodland

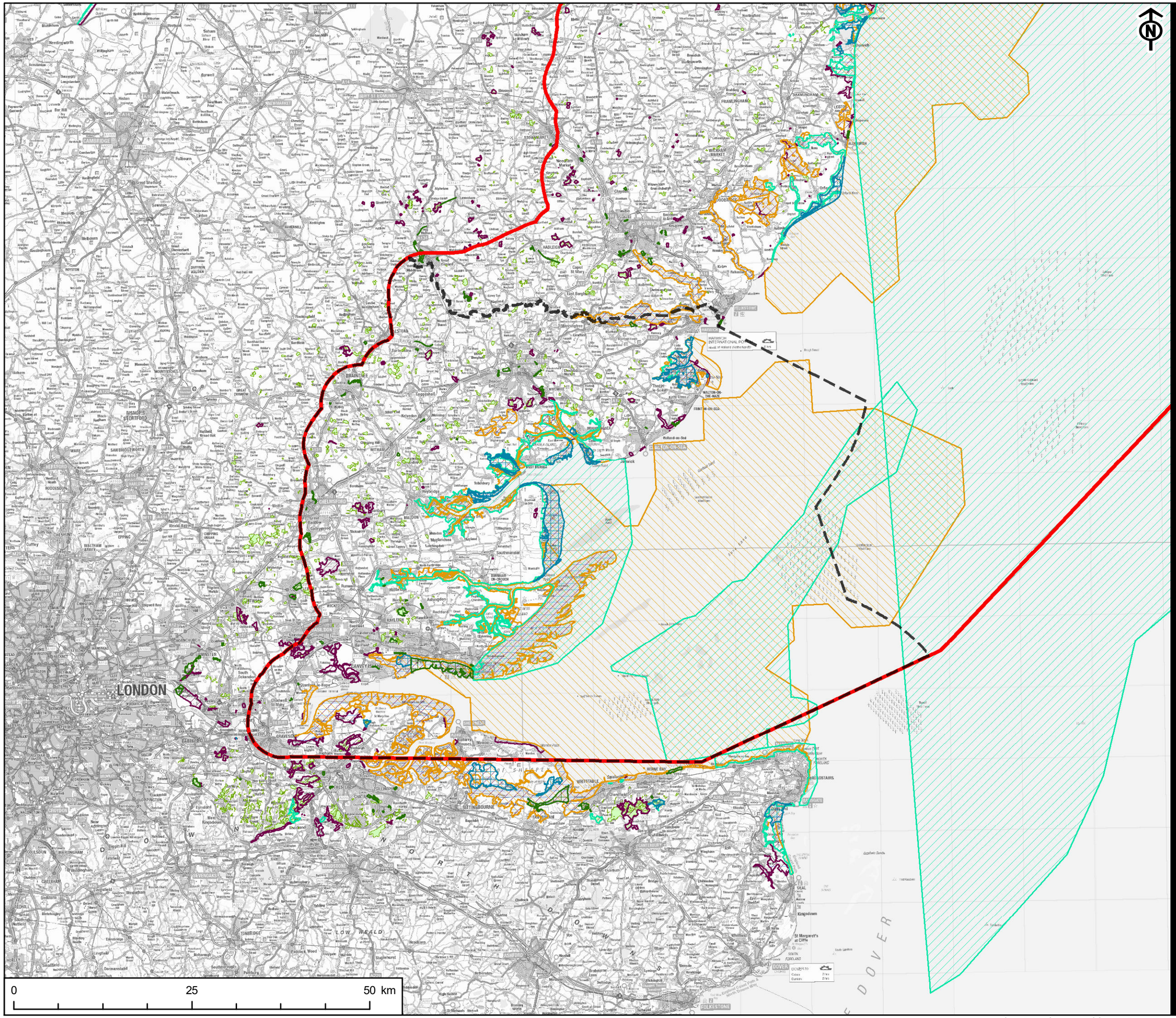
TITLE
FIGURE B7
ONSHORE BIOLOGICAL ENVIRONMENTAL CONSTRAINTS
SUFFOLK SUB-REGION

REFERENCE
ECGS_201113_3.7_v1

SHEET NUMBER
4 of 5

DATE
13/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Essex Sub-region
- Local Nature Reserve
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Ancient Woodland

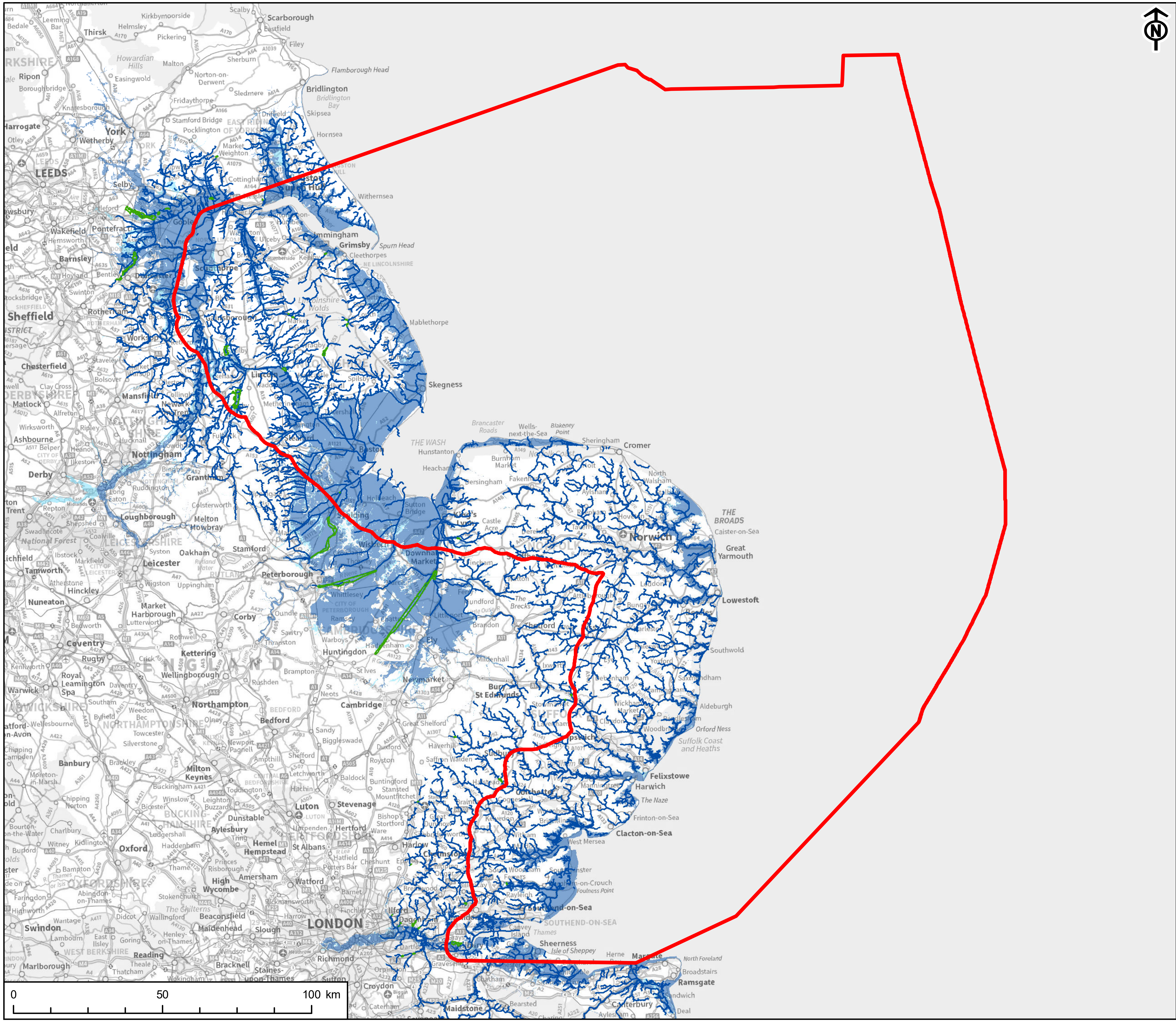
TITLE
FIGURE B7
ONSHORE BIOLOGICAL ENVIRONMENTAL CONSTRAINTS
ESSEX SUB-REGION

REFERENCE
ECGS_201113_3.7_v1

SHEET NUMBER
5 of 5

DATE
13/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT

EAST COAST GRID STUDY

CLIENT

THE CROWN ESTATE

KEY

- Study Area
- Main River
- Flood Storage
- Flood Zone 3
- Flood Zone 2

TITLE

FIGURE B8
ONSHORE PHYSICAL ENVIRONMENTAL CONSTRAINTS

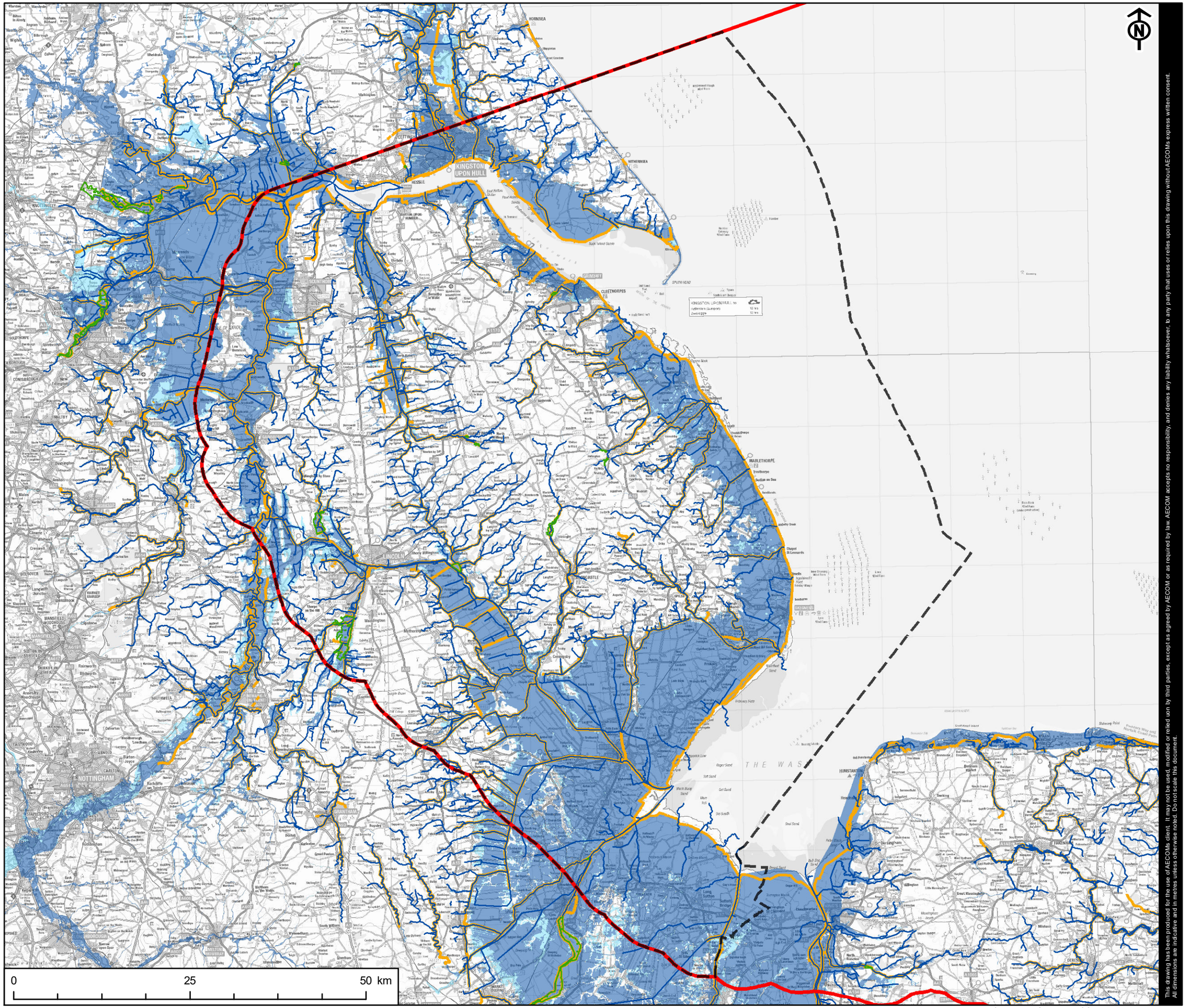
REFERENCE

ECGS_201118_3.8_v1

SHEET NUMBER: 1 of 5

DATE: 18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY
- Study Area
- Lincolnshire Sub-region
- Main River
- Flood Defence
- Flood Storage
- Flood Zone 3
- Flood Zone 2

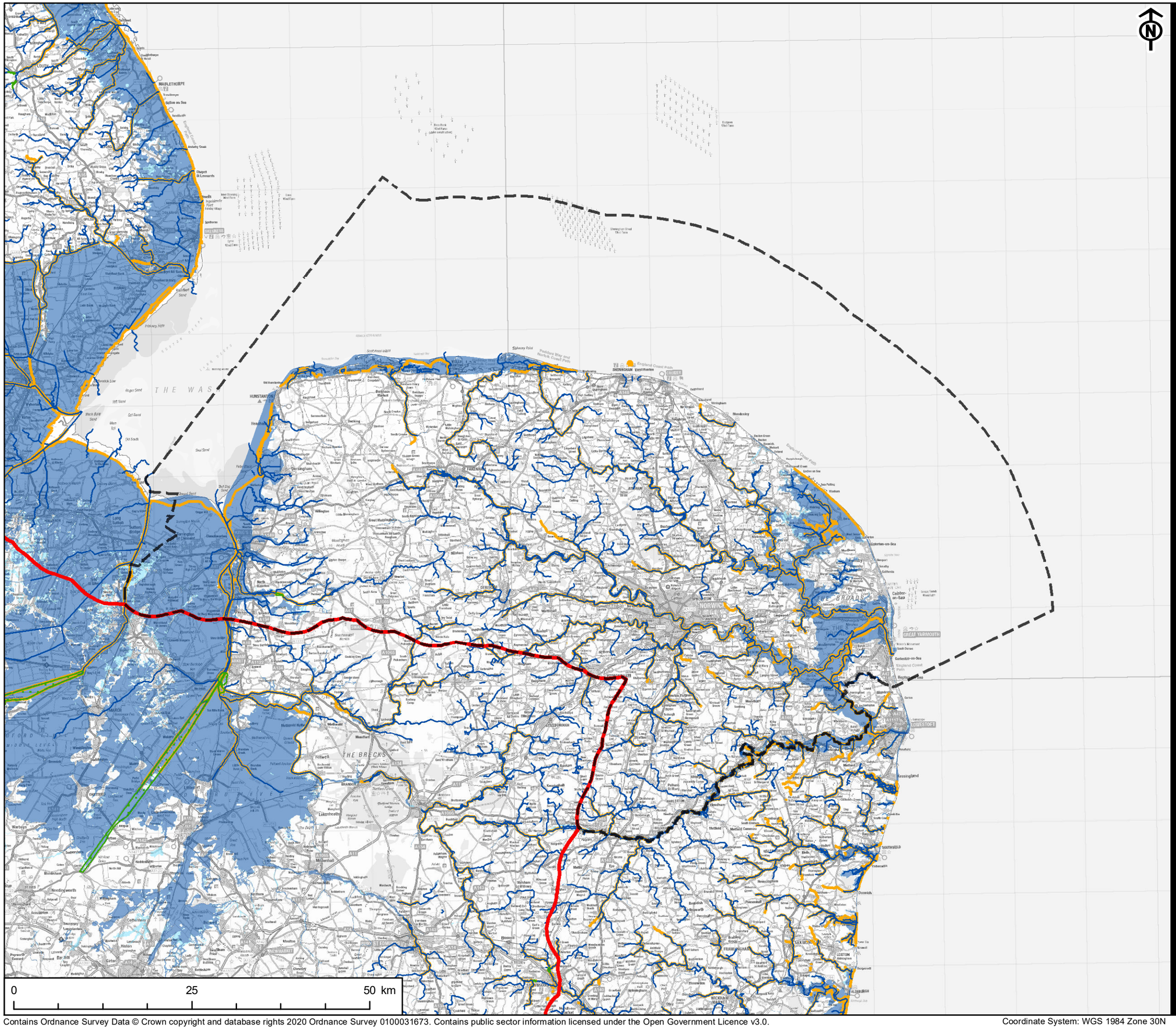
TITLE
FIGURE B8
ONSHORE PHYSICAL ENVIRONMENTAL CONSTRAINTS
LINCOLNSHIRE SUB-REGION

REFERENCE
ECGS_201118_3.8_v1

SHEET NUMBER
2 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Norfolk Sub-region
- Main River
- Flood Defence
- Flood Storage
- Flood Zone 3
- Flood Zone 2

TITLE
FIGURE B8
ONSHORE PHYSICAL ENVIRONMENTAL CONSTRAINTS
NORFOLK SUB-REGION

REFERENCE
ECGS_201118_3.8_v1

SHEET NUMBER
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DATE
18/11/2020

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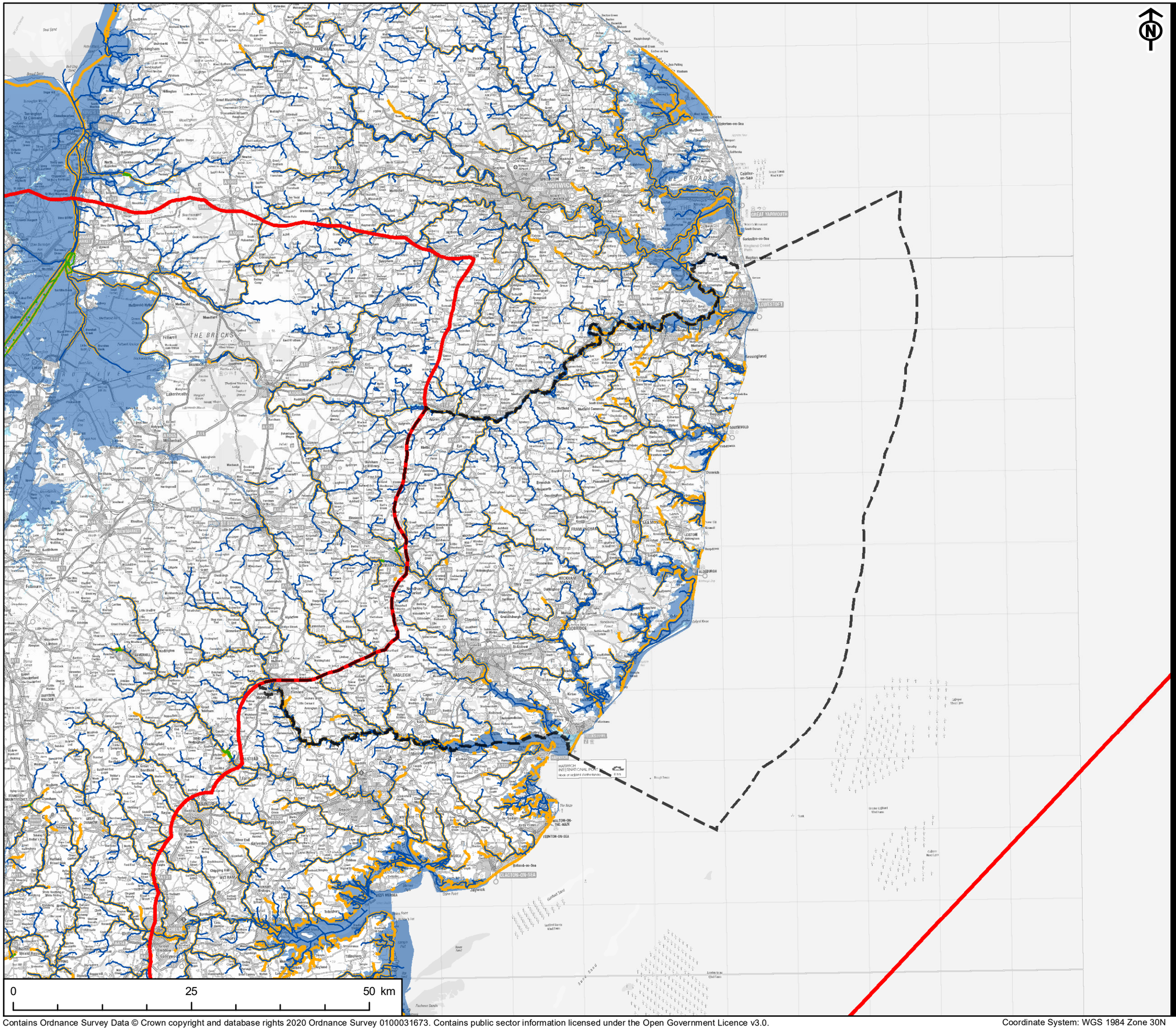

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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY
- Study Area
- Suffolk Sub-region
- Main River
- Flood Defence
- Flood Storage
- Flood Zone 3
- Flood Zone 2

TITLE
FIGURE B8
ONSHORE PHYSICAL ENVIRONMENTAL CONSTRAINTS
SUFFOLK SUB-REGION

REFERENCE
ECGS_201118_3.8_v1

SHEET NUMBER
4 of 5

DATE
18/11/2020

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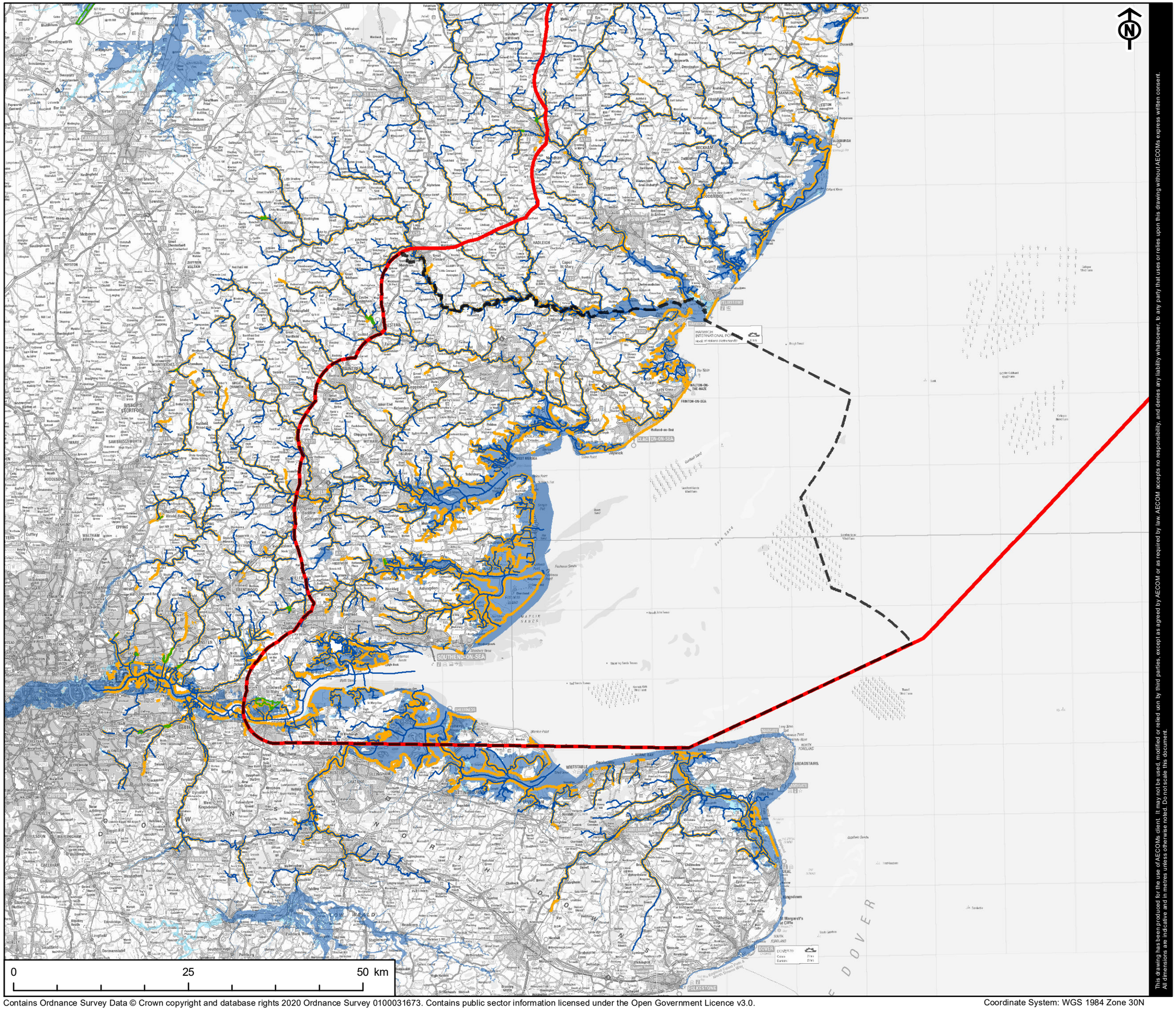

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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Essex Sub-region
- Main River
- Flood Defence
- Flood Storage
- Flood Zone 3
- Flood Zone 2

TITLE
FIGURE B8
ONSHORE PHYSICAL ENVIRONMENTAL CONSTRAINTS
ESSEX SUB-REGION

REFERENCE
ECGS_201118_3.8_v1

SHEET NUMBER
5 of 5

DATE
18/11/2020

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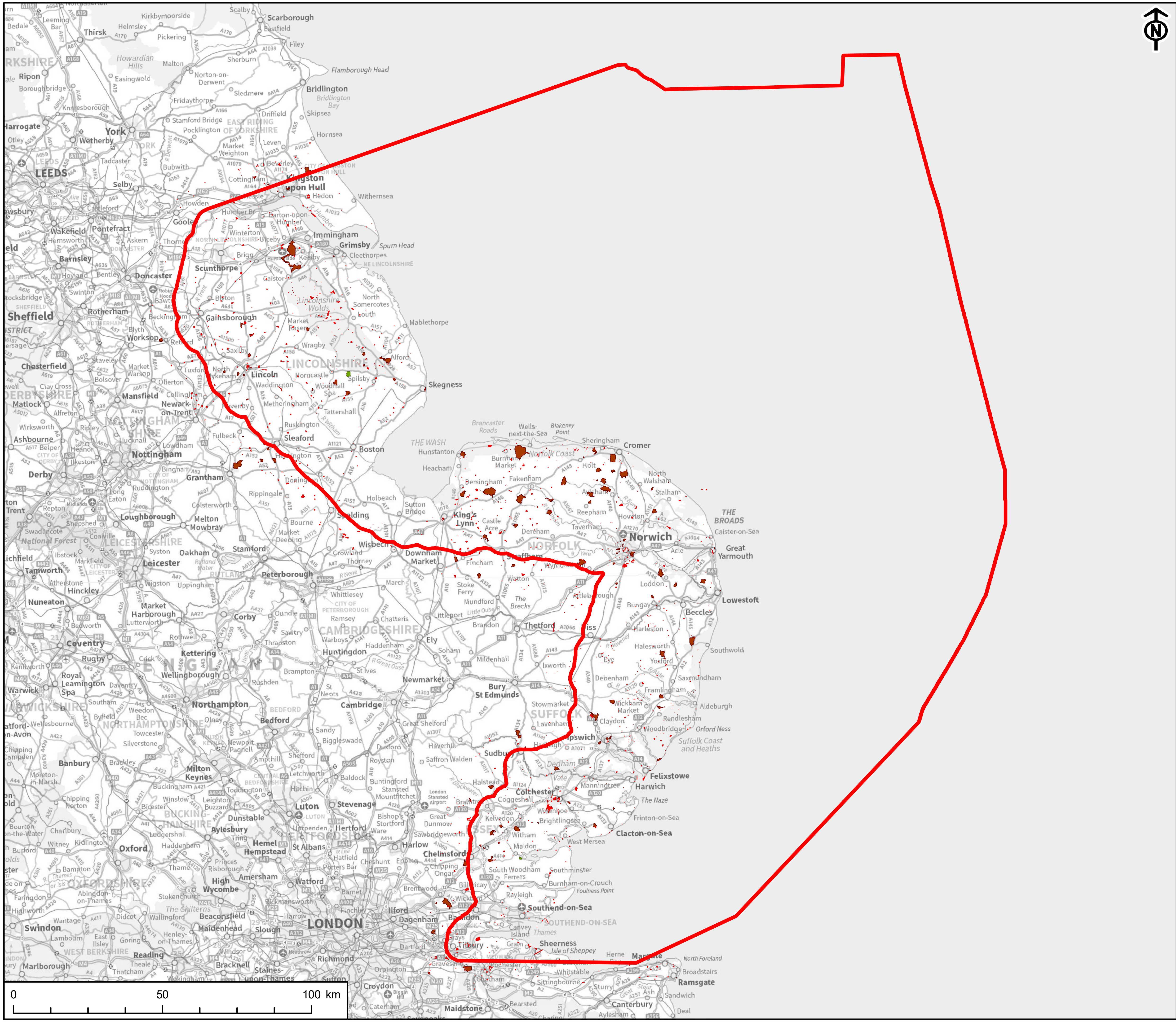

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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY
- Study Area
- Registered Park and Garden
- Registered Battlefield
- Scheduled Monument

TITLE
FIGURE B9
ONSHORE HISTORIC ENVIRONMENTAL CONSTRAINTS

REFERENCE
ECGS_201113_3.9_v1

SHEET NUMBER 1 of 5
DATE 13/11/2020

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Coordinate System: WGS 1984 Zone 30N

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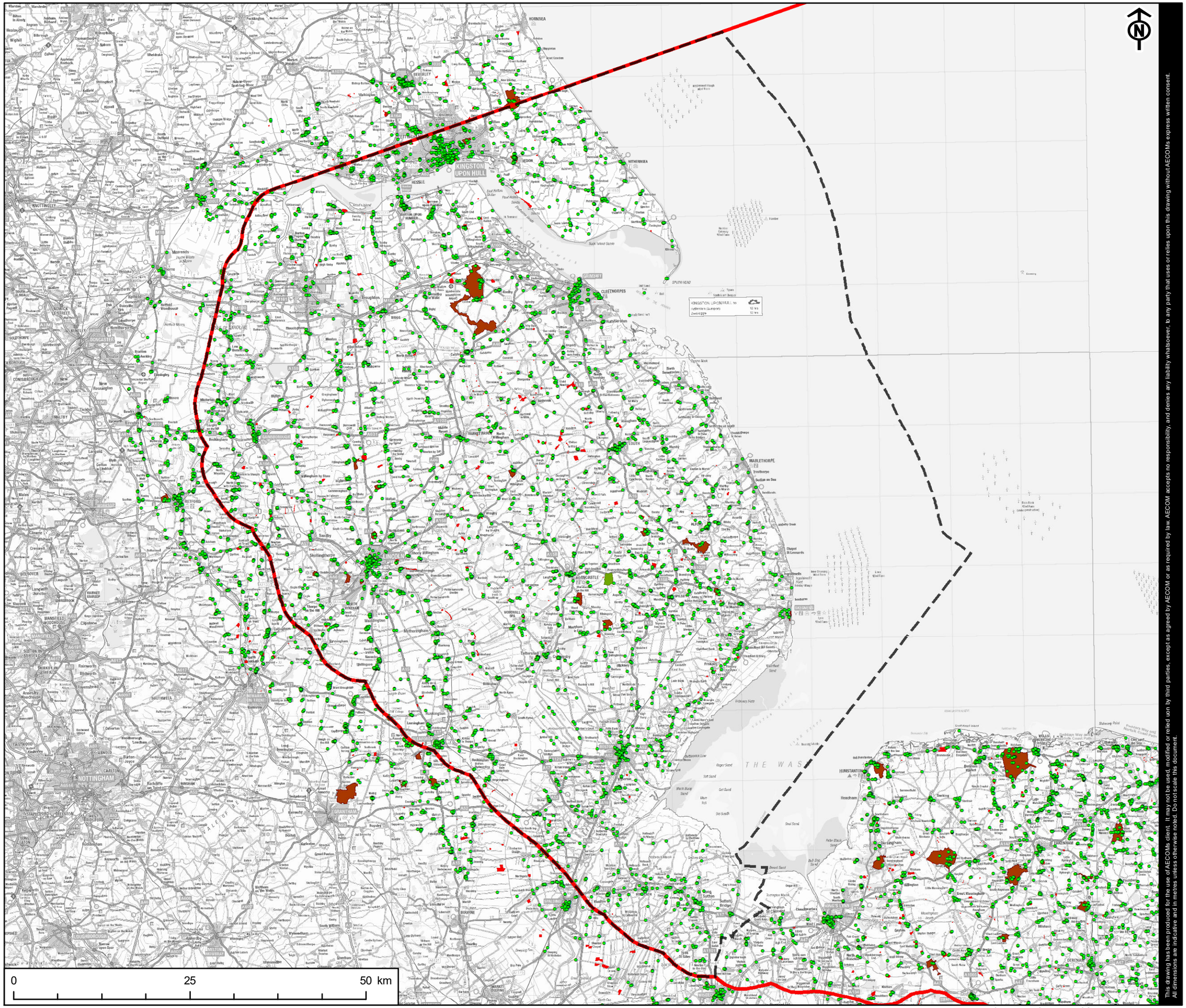

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Coordinate System: WGS 1984 Zone 30N

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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Lincolnshire Sub-region
- Listed Building
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden

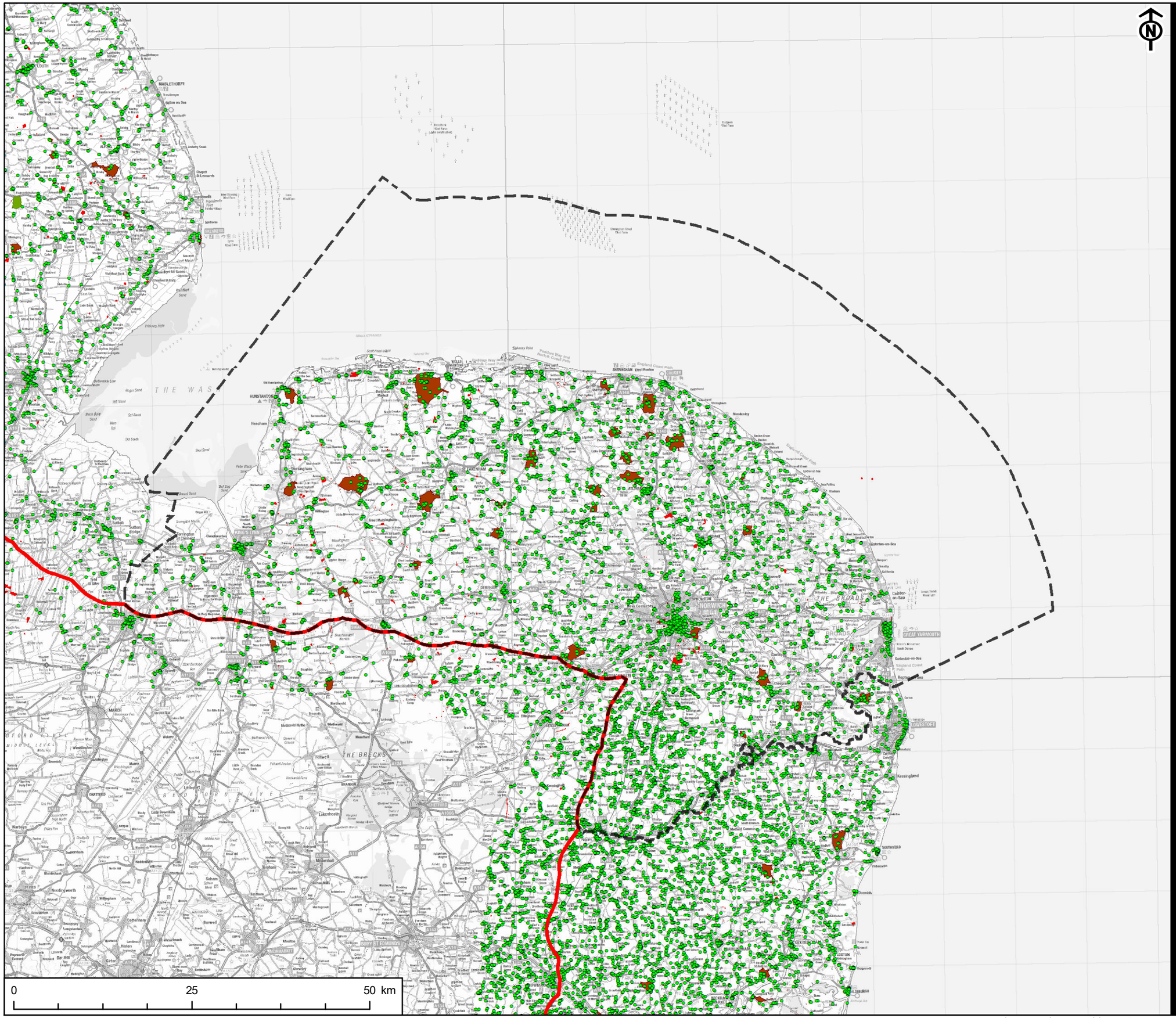
TITLE
FIGURE B9
ONSHORE HISTORIC ENVIRONMENTAL CONSTRAINTS
LINCOLNSHIRE SUB-REGION

REFERENCE
ECGS_201113_3.9_v1

SHEET NUMBER
2 of 5

DATE
13/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Norfolk Sub-region
- Listed Building
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden

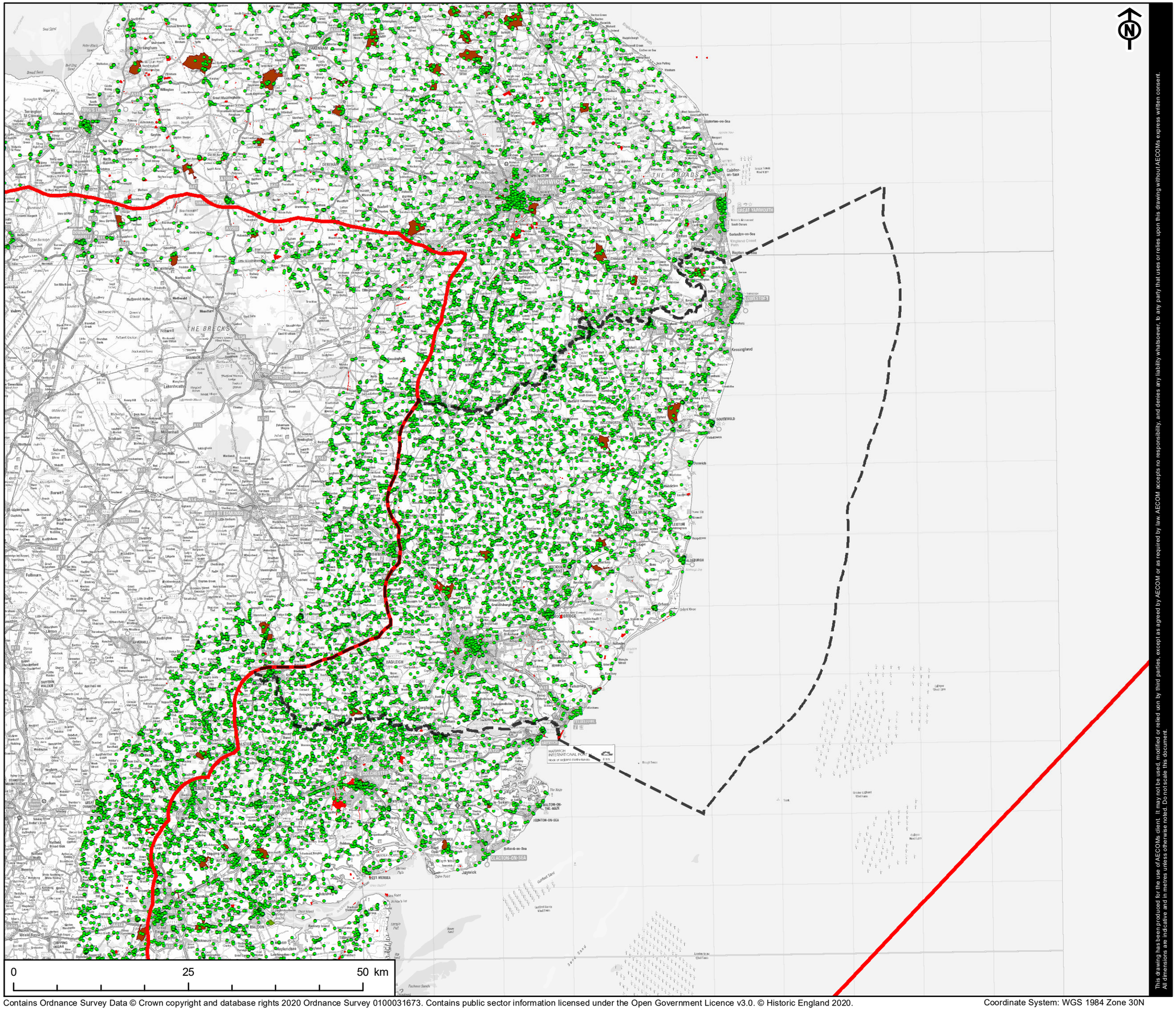
TITLE
FIGURE B9
ONSHORE HISTORIC ENVIRONMENTAL CONSTRAINTS
NORFOLK SUB-REGION

REFERENCE
ECGS_201113_3.9_v1

SHEET NUMBER
3 of 5

DATE
13/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



Scale @ A3 1:500,000

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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY
- Study Area
- Suffolk Sub-region
- Listed Building
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden

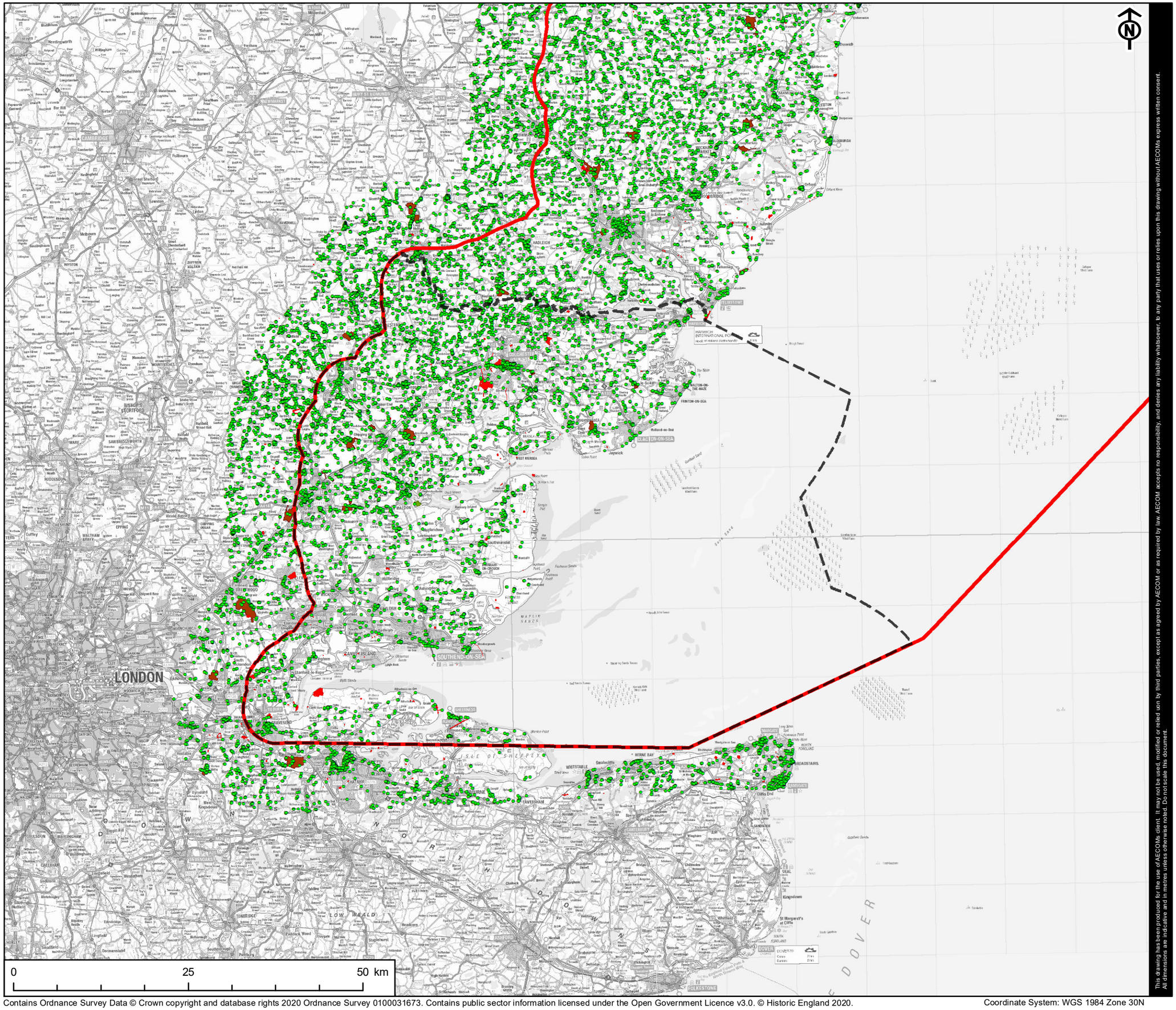
TITLE
FIGURE B9
ONSHORE HISTORIC ENVIRONMENTAL CONSTRAINTS
SUFFOLK SUB-REGION

REFERENCE
ECGS_201113_3.9_v1

SHEET NUMBER
4 of 5

DATE
13/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Essex Sub-region
- Listed Building
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden

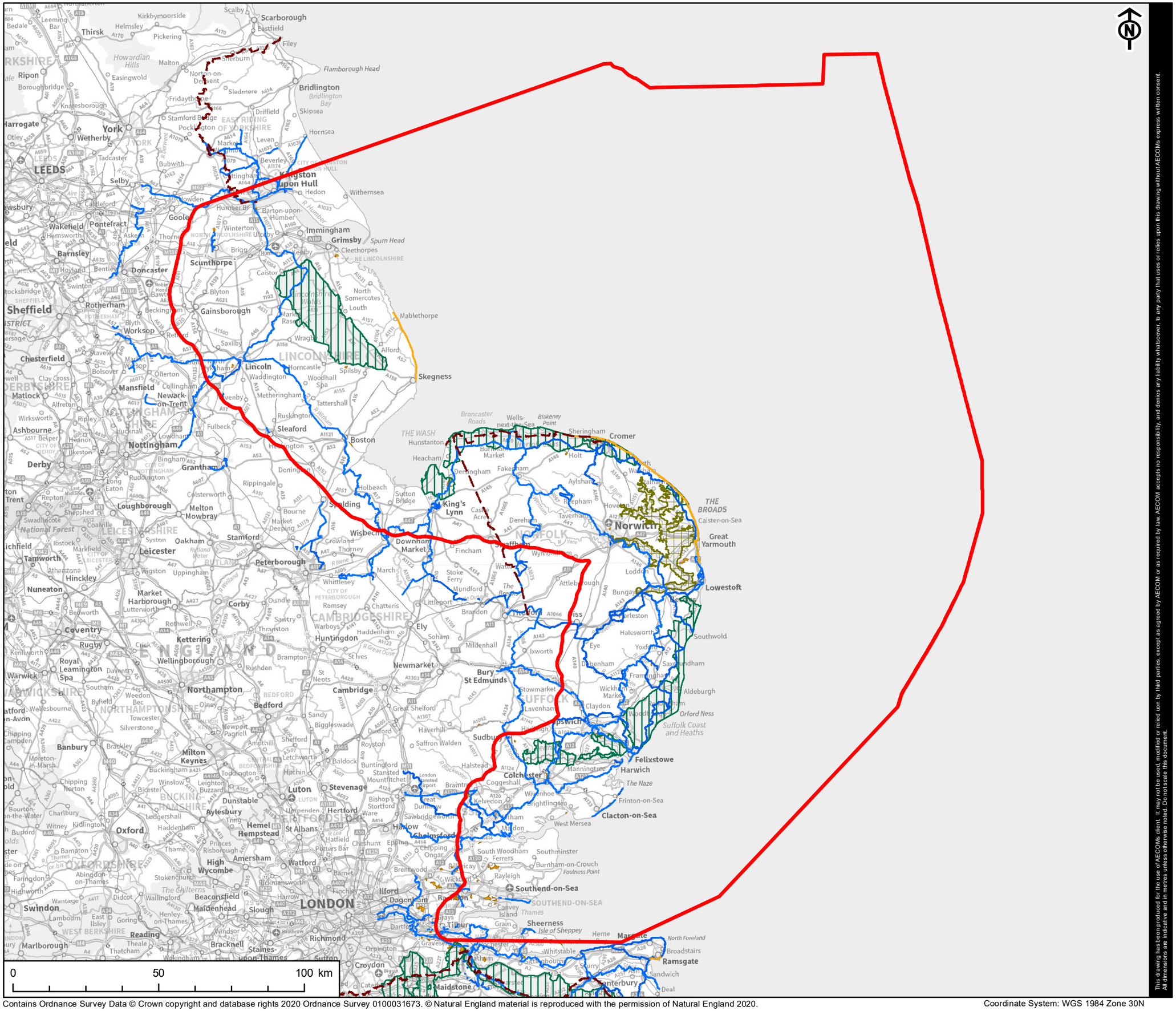
TITLE
FIGURE B9
ONSHORE HISTORIC ENVIRONMENTAL CONSTRAINTS
ESSEX SUB-REGION

REFERENCE
ECGS_201113_3.9_v1

SHEET NUMBER
5 of 5

DATE
13/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



Scale @ A3 1:1,200,000

0 50 100 km

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- National Trail
- England Coast Path
- Sustrans National / Regional Cycle Route
- Area of Outstanding Natural Beauty
- National Park
- Country Park

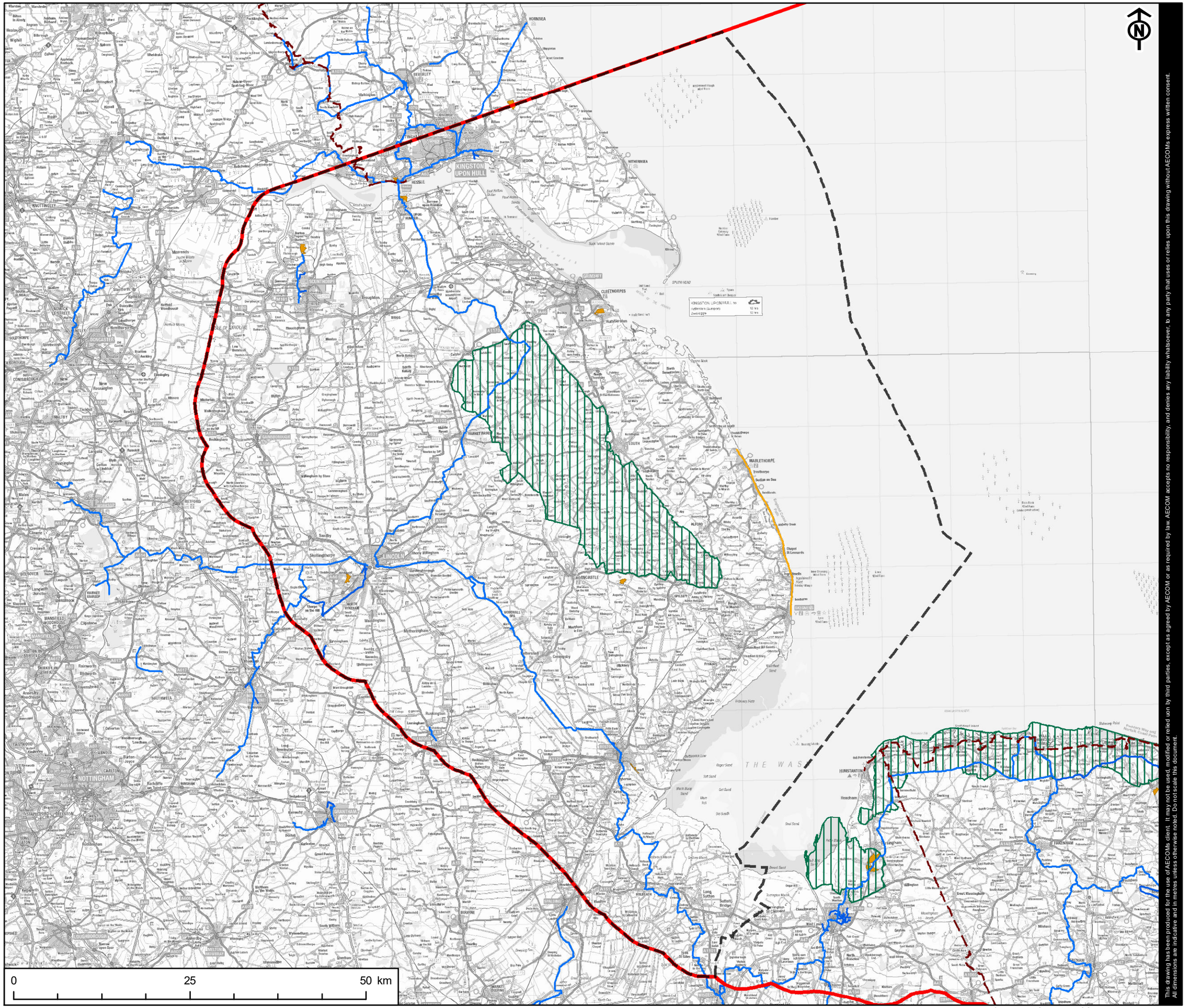
TITLE
FIGURE B10
ONSHORE LANDSCAPE ENVIRONMENTAL CONSTRAINTS

REFERENCE
ECGS_201113_3.10_v1

SHEET NUMBER
1 of 5

DATE
13/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Lincolnshire Sub-region
- National Trail
- England Coast Path
- Sustrans National / Regional Cycle Route
- Area of Outstanding Natural Beauty
- Country Park

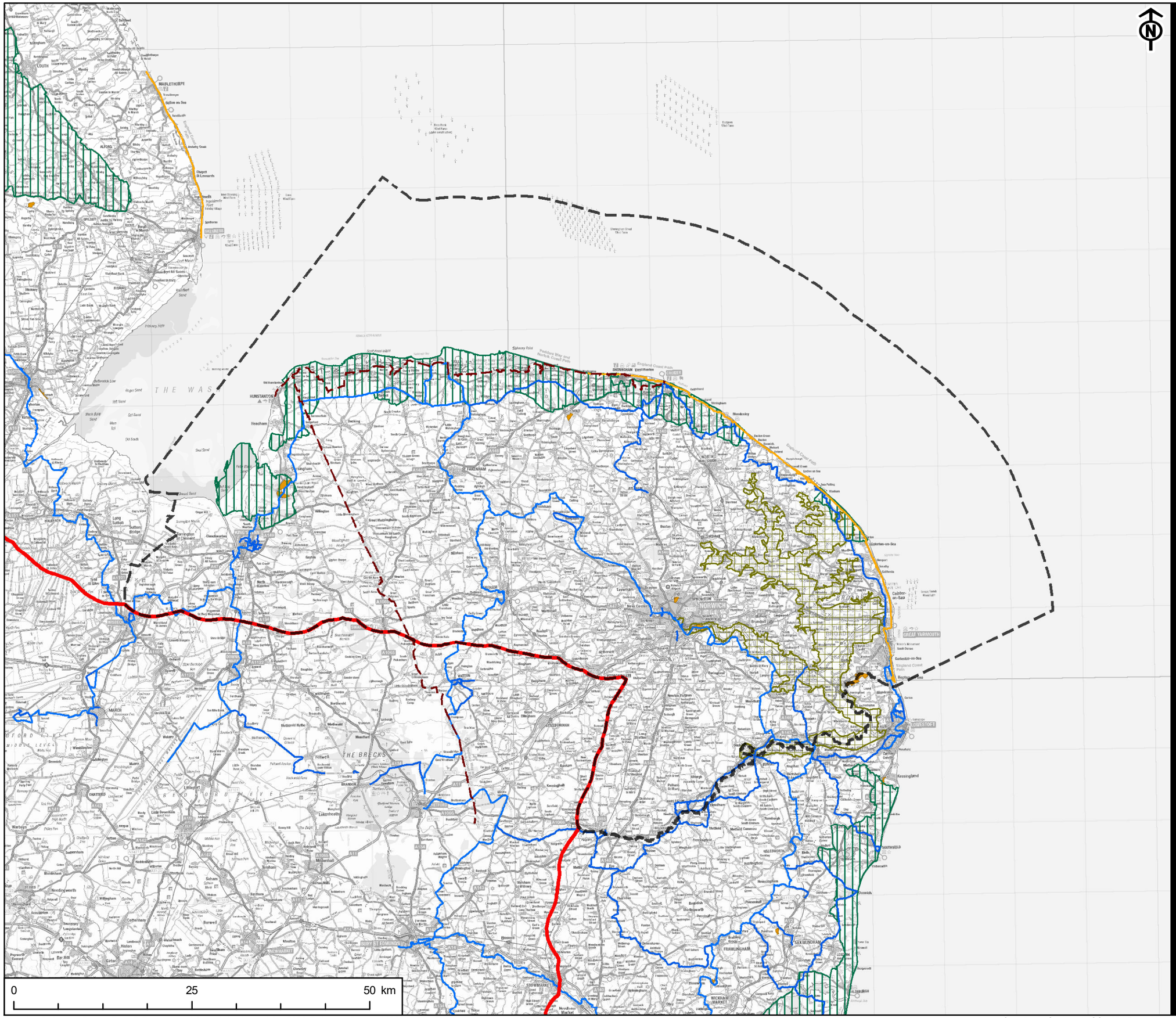
TITLE
FIGURE B10
ONSHORE LANDSCAPE ENVIRONMENTAL CONSTRAINTS
LINCOLNSHIRE SUB-REGION

REFERENCE
ECGS_201113_3.10_v1

SHEET NUMBER
2 of 5

DATE
13/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Norfolk Sub-region
- National Trail
- England Coast Path
- Sustrans National / Regional Cycle Route
- Area of Outstanding Natural Beauty
- National Park
- Country Park

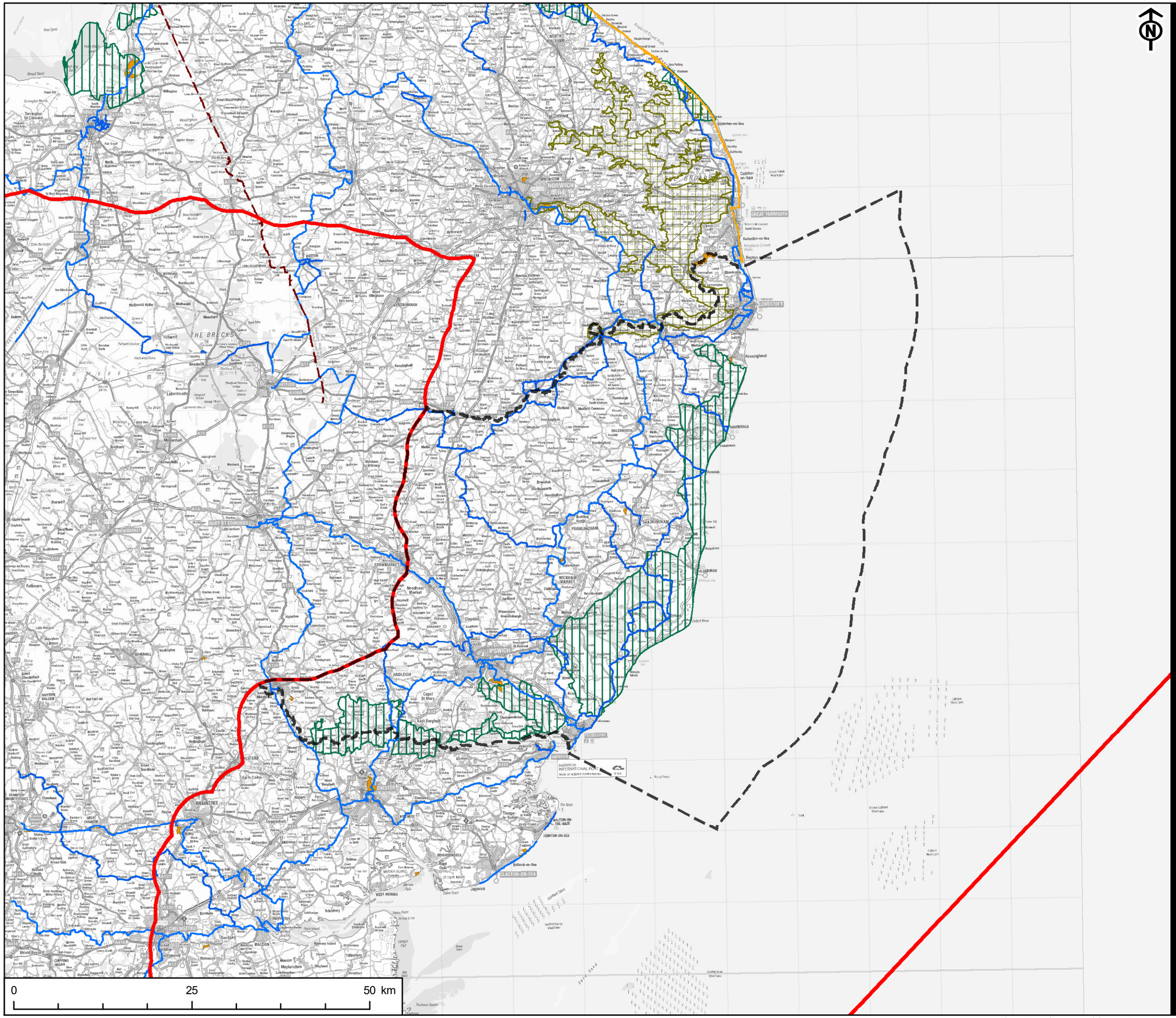
TITLE
FIGURE B10
ONSHORE LANDSCAPE ENVIRONMENTAL CONSTRAINTS
NORFOLK SUB-REGION

REFERENCE
ECGS_201113_3.10_v1

SHEET NUMBER
3 of 5

DATE
13/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Suffolk Sub-region
- National Trail
- England Coast Path
- Sustrans National / Regional Cycle Route
- Area of Outstanding Natural Beauty
- National Park
- Country Park

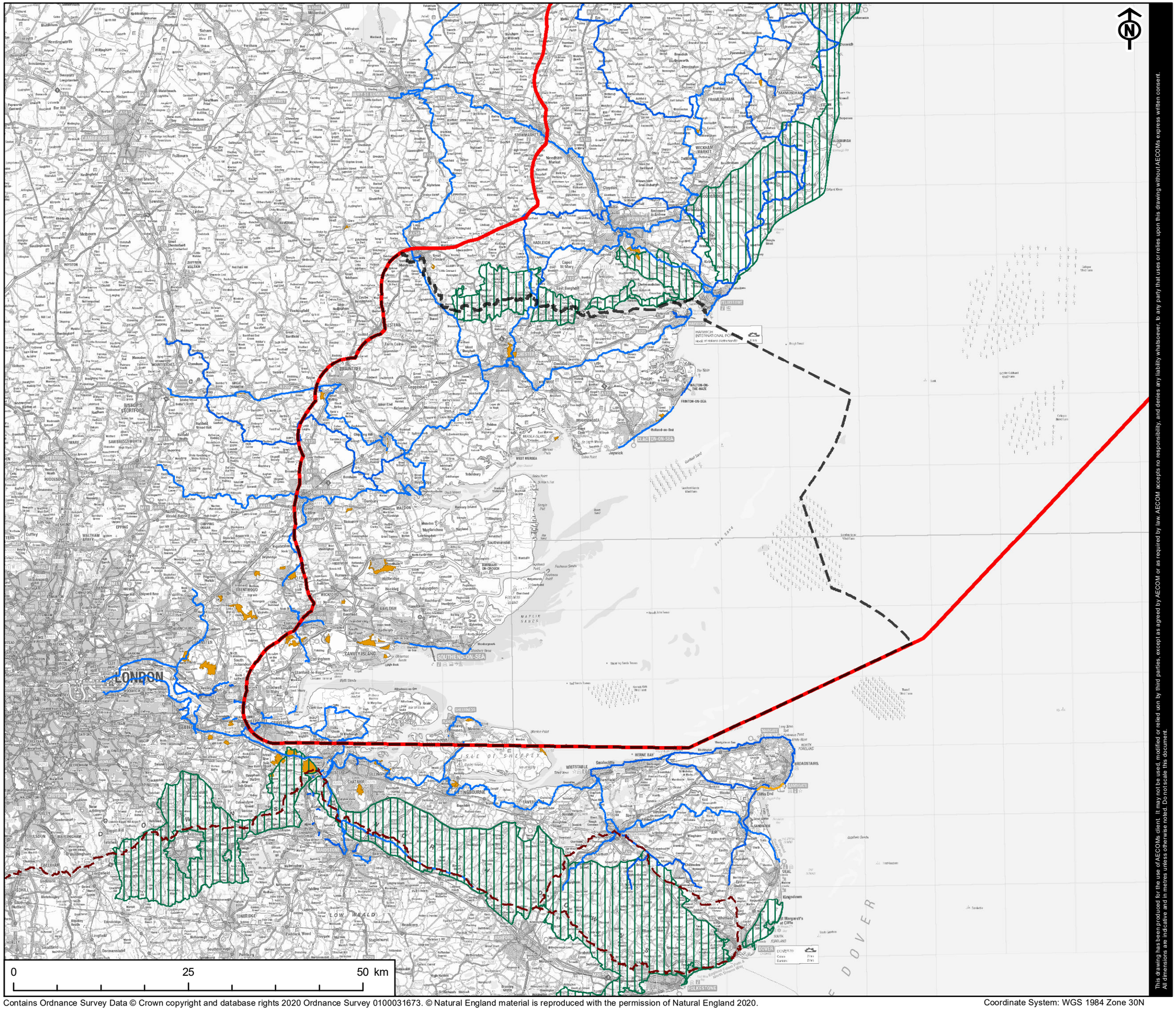
TITLE
FIGURE B10
ONSHORE LANDSCAPE ENVIRONMENTAL CONSTRAINTS
SUFFOLK SUB-REGION

REFERENCE
ECGS_201113_3.10_v1

SHEET NUMBER
4 of 5

DATE
13/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Essex Sub-region
- National Trail
- England Coast Path
- Sustrans National / Regional Cycle Route
- Area of Outstanding Natural Beauty
- Country Park

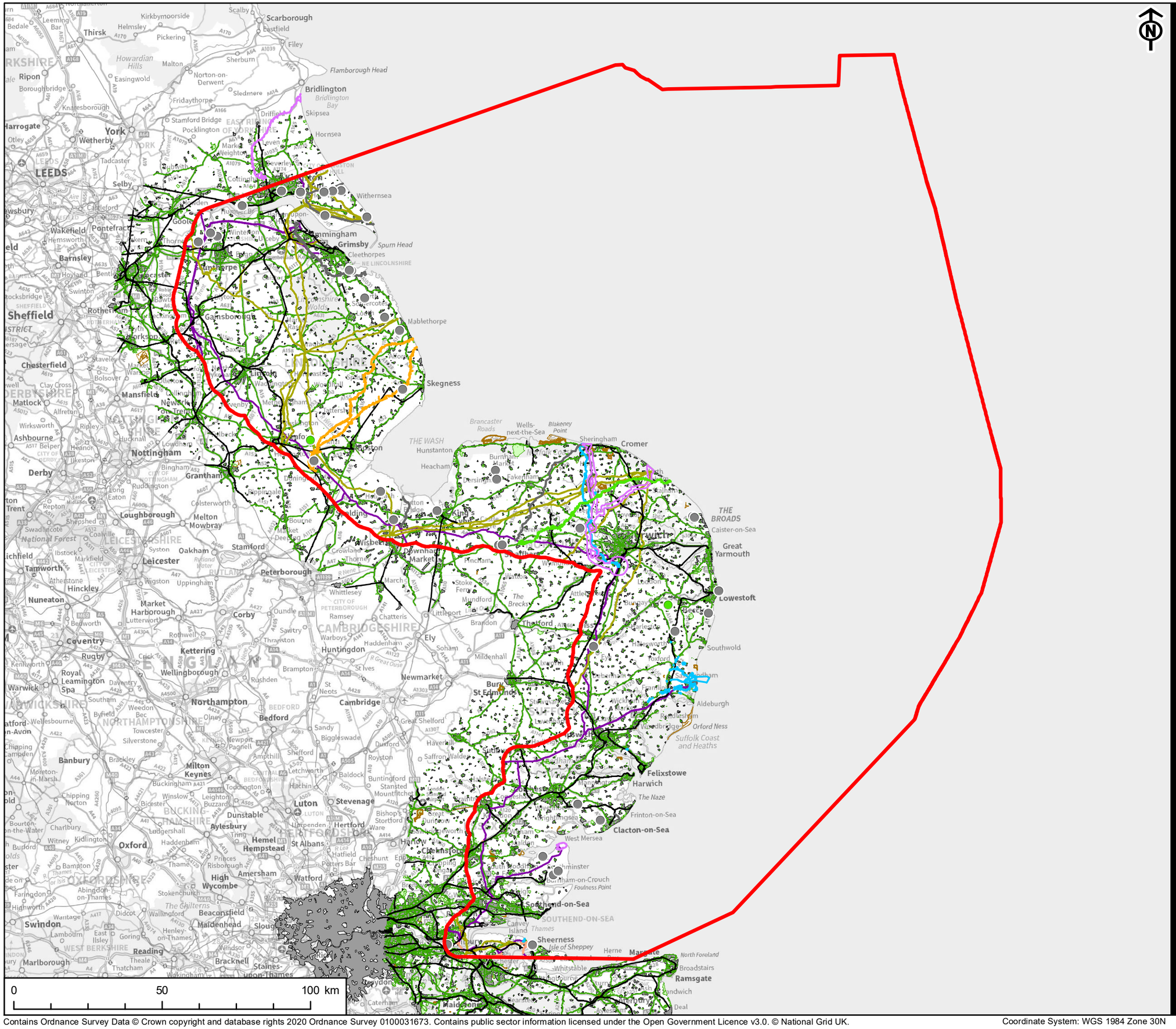
TITLE
FIGURE B10
ONSHORE LANDSCAPE ENVIRONMENTAL CONSTRAINTS
ESSEX SUB-REGION

REFERENCE
ECGS_201113_3.10_v1

SHEET NUMBER
5 of 5

DATE
13/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Main Road
- Railway Track
- Cable
- Gas Pipeline
- Overhead Line
- Country Park
- Greenspace
- Urban Area
- National Trust Land

Onshore Wind Farm

- Operational
- Approved

Onshore Major Infrastructure

- Operational
- Under Construction
- Approved
- Application Submitted
- In Development (Scoping)

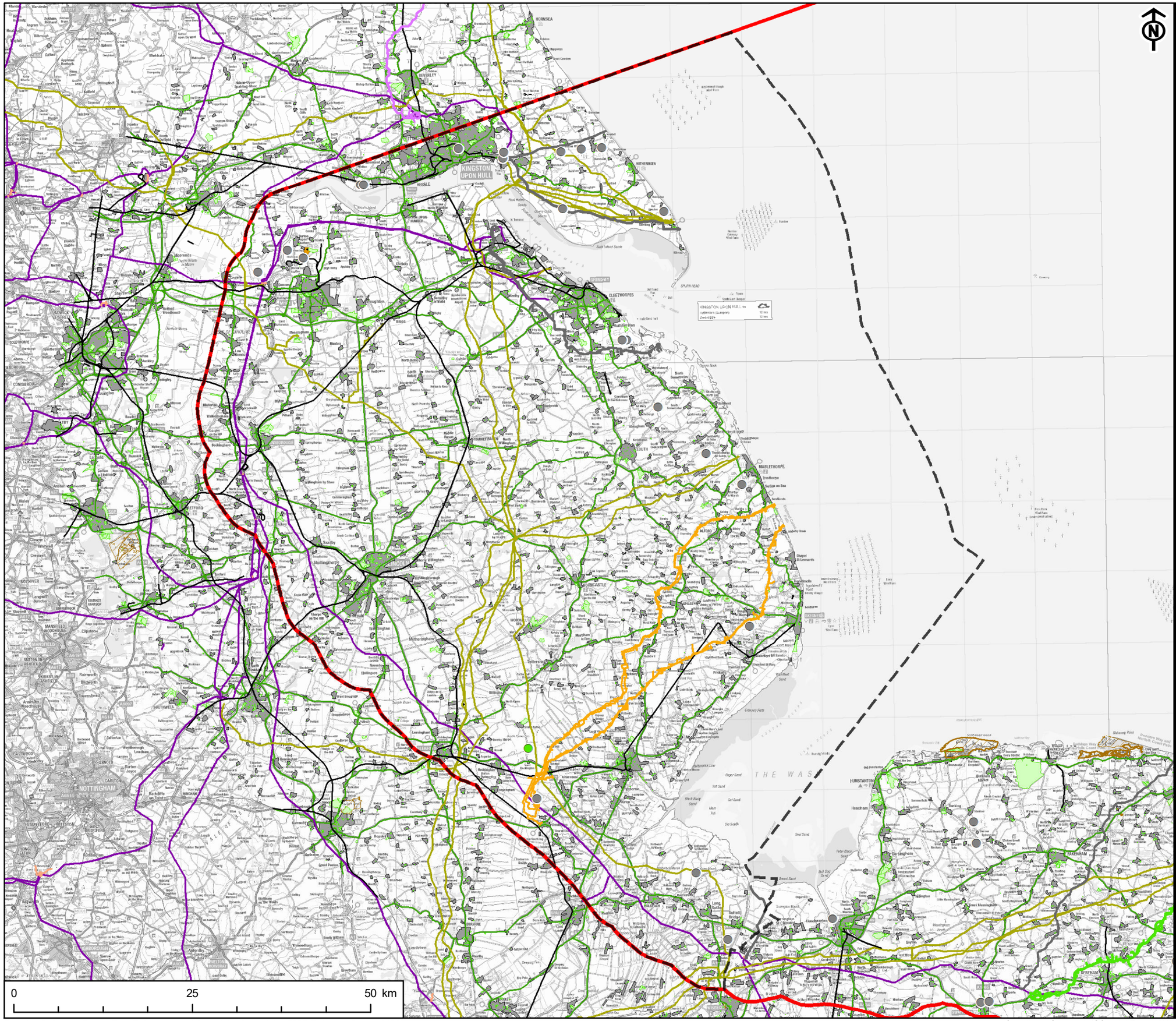
TITLE
FIGURE B11
OTHER LAND USE /
OTHER INFRASTRUCTURE

REFERENCE
ECGS_201118_3.11_v1

SHEET NUMBER
1 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



Scale @ A3 1:500,000

0 25 50 km

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Lincolnshire Sub-region
- Main Road
- Railway Track
- Cable
- Gas Pipeline
- Overhead Line
- Country Park
- Greenspace
- Urban Area
- National Trust Land

Onshore Wind Farm

- Operational
- Approved

Onshore Major Infrastructure

- Operational
- Under Construction
- Approved
- Application Submitted
- In Development (Scoping)

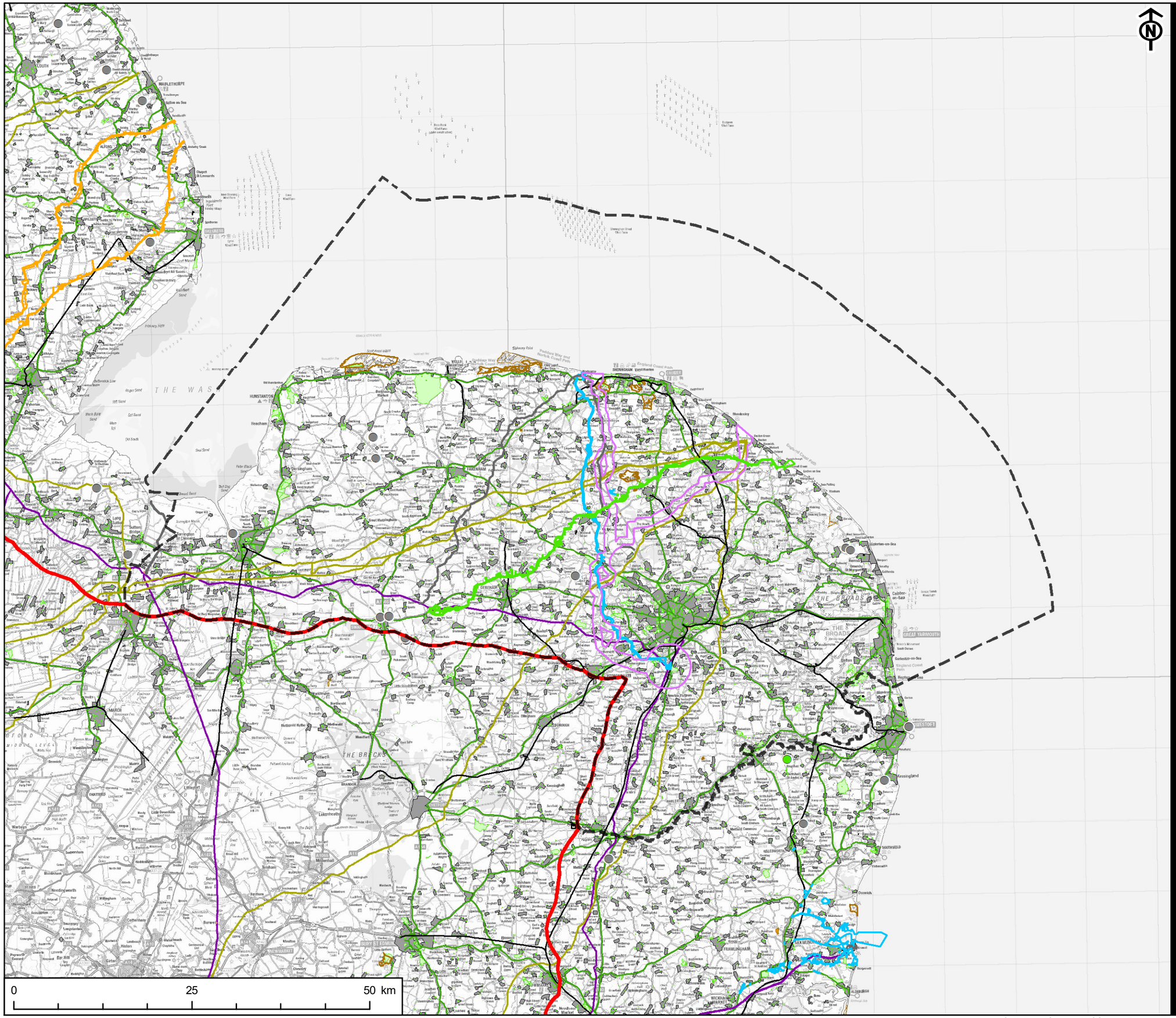
TITLE
FIGURE B11
OTHER LAND USE /
OTHER INFRASTRUCTURE
LINCOLNSHIRE SUB-REGION

REFERENCE
ECGS_201118_3.11_v1

SHEET NUMBER
2 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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0 25 50 km

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Norfolk Sub-region
- Main Road
- Railway Track
- Cable
- Gas Pipeline
- Overhead Line
- Country Park
- Greenspace
- Urban Area
- National Trust Land

Onshore Wind Farm
- Operational
- Approved

Onshore Major Infrastructure
- Operational
- Under Construction
- Approved
- Application Submitted
- In Development (Scoping)

TITLE
FIGURE B11
OTHER LAND USE /
OTHER INFRASTRUCTURE
NORFOLK SUB-REGION

REFERENCE
ECGS_201118_3.11_v1

SHEET NUMBER
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DATE
18/11/2020

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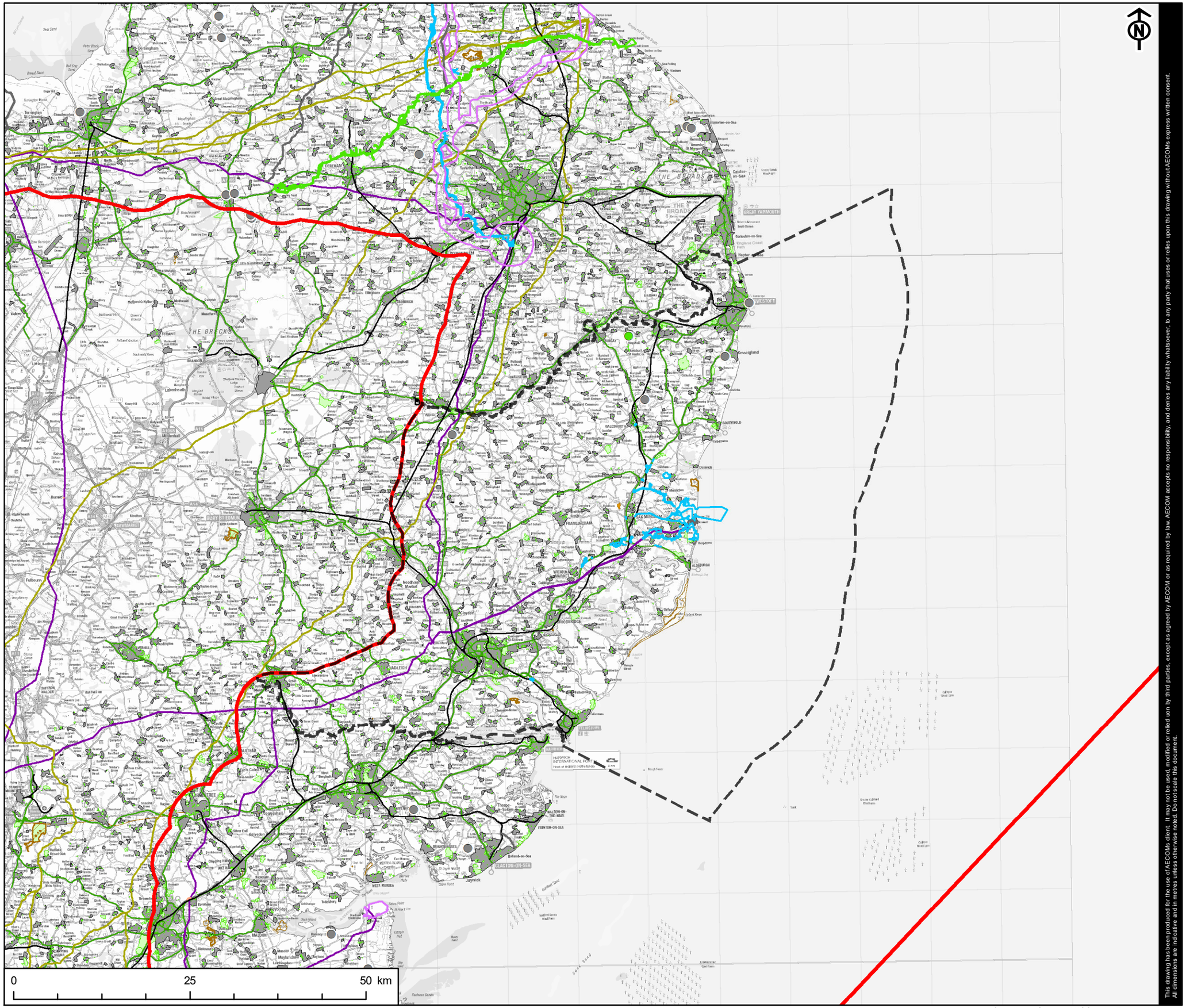

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Suffolk Sub-region
- Main Road
- Railway Track
- Cable
- Gas Pipeline
- Overhead Line
- Country Park
- Greenspace
- Urban Area
- National Trust Land

Onshore Wind Farm

- Operational
- Approved

Onshore Major Infrastructure

- Operational
- Approved
- Application Submitted
- In Development (Scoping)

TITLE
FIGURE B11
OTHER LAND USE /
OTHER INFRASTRUCTURE
SUFFOLK SUB-REGION

REFERENCE
ECGS_201118_3.11_v1

SHEET NUMBER
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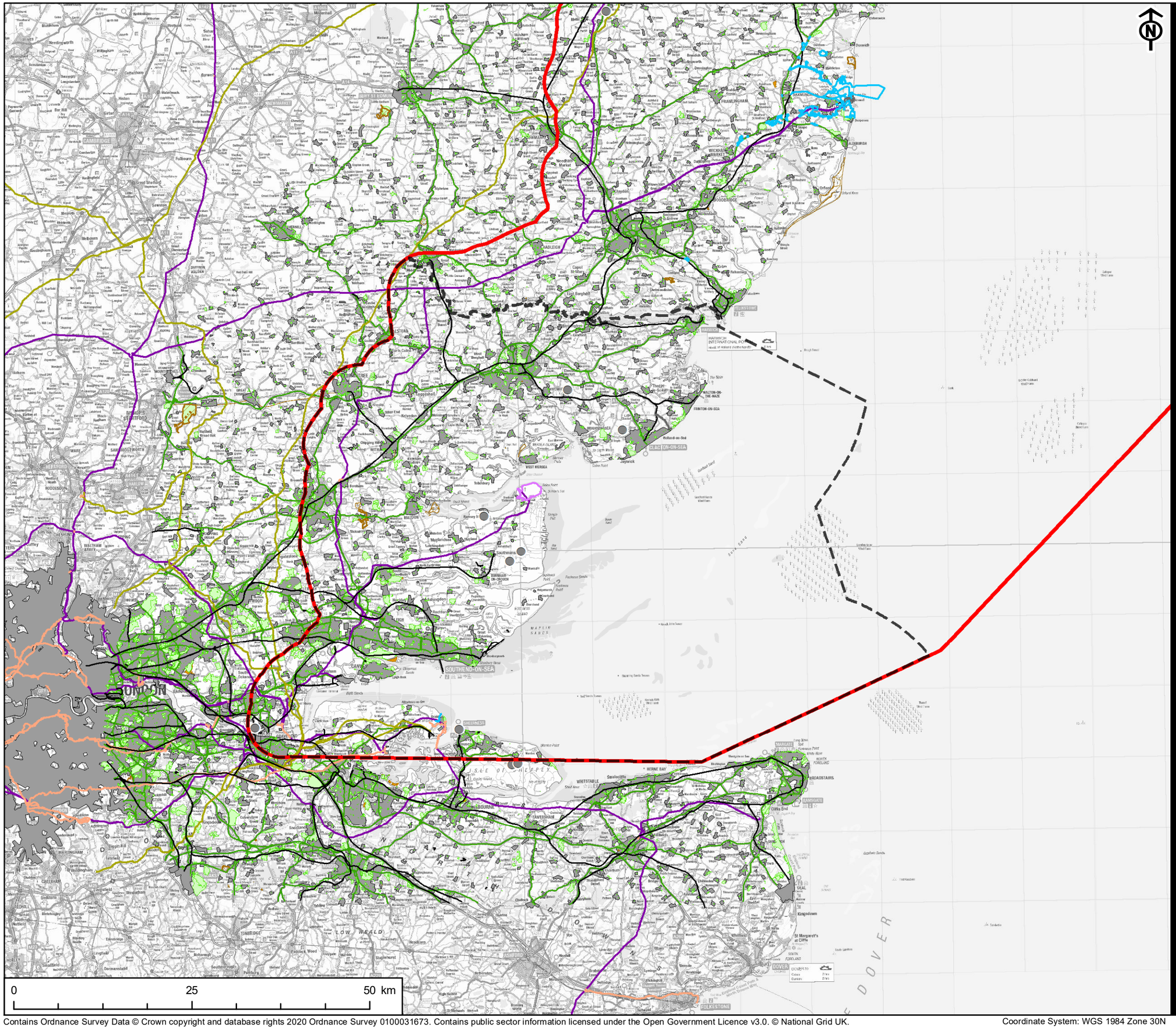
DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Essex Sub-region
- Main Road
- Railway Track
- Cable
- Gas Pipeline
- Overhead Line
- Country Park
- Greenspace
- Urban Area
- National Trust Land

Onshore Wind Farm
- Operational

Onshore Major Infrastructure
- Operational
- Application Submitted
- In Development (Scoping)

TITLE
FIGURE B11
OTHER LAND USE /
OTHER INFRASTRUCTURE
ESSEX SUB-REGION

REFERENCE
ECGS_201118_3.11_v1

SHEET NUMBER
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DATE
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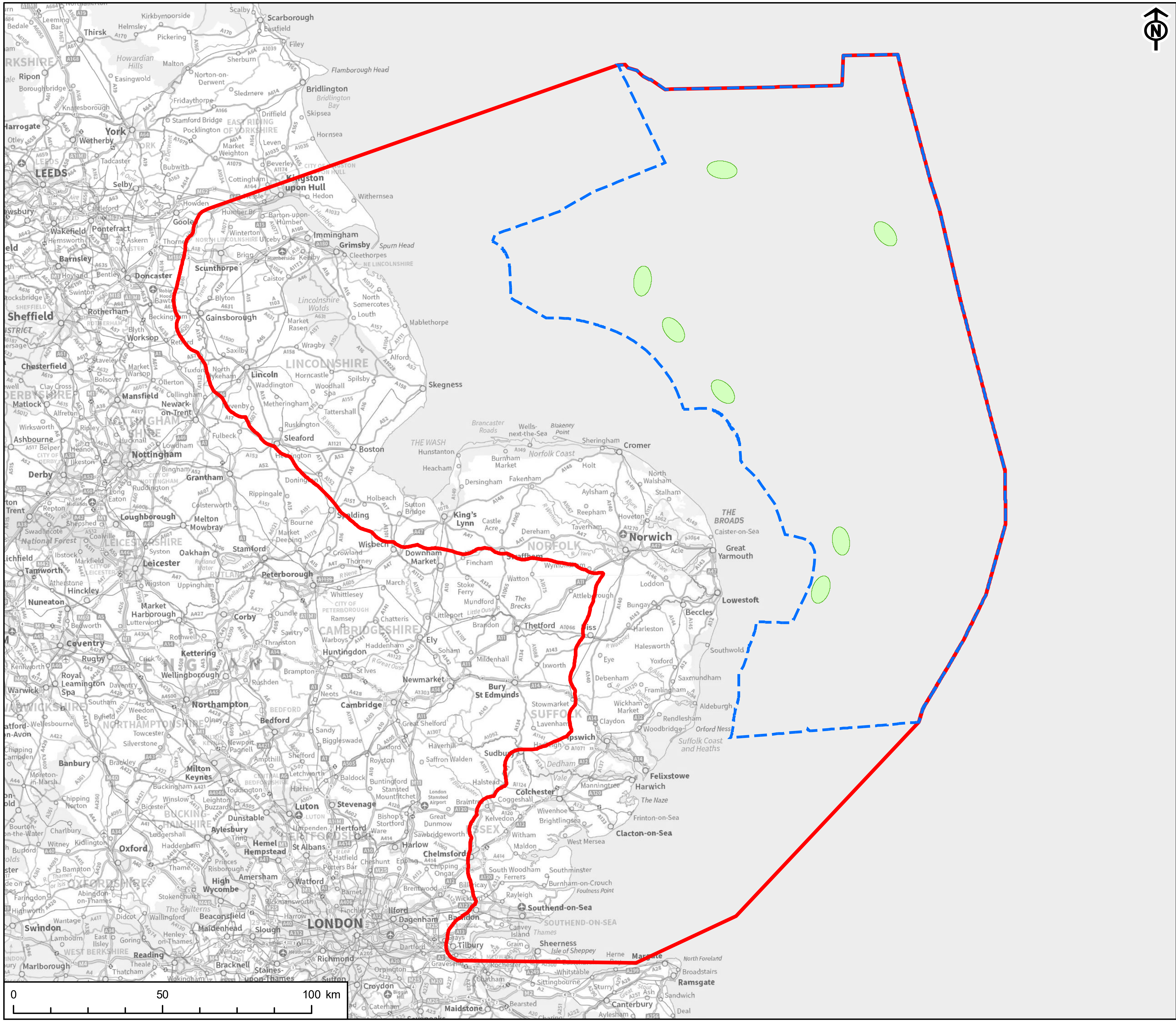
Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

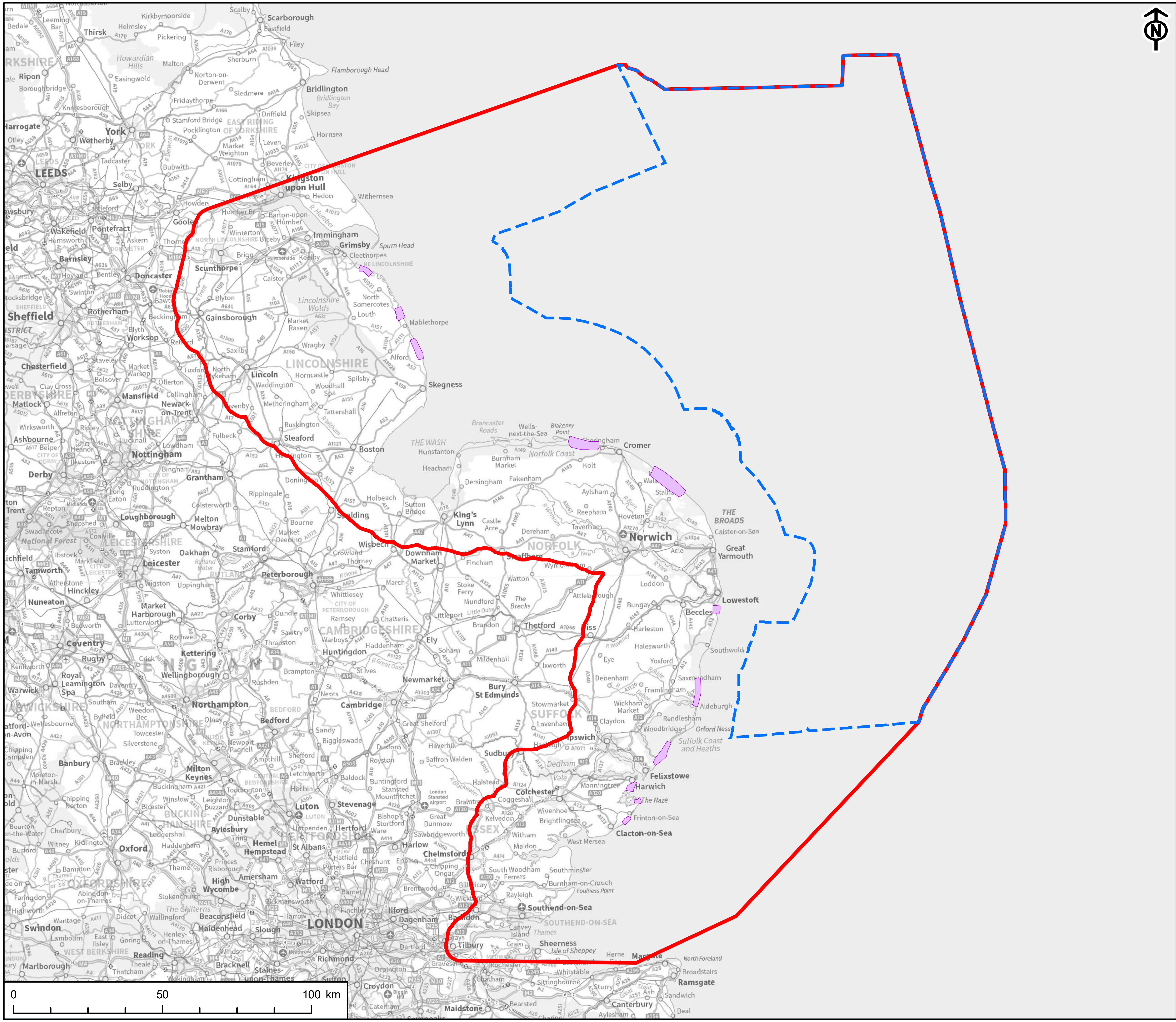
KEY
- Study Area
- R4 Bidding Area - Eastern Regions
- Conceptual Offshore Wind Project

TITLE
FIGURE B12
CONCEPTUAL OFFSHORE WIND PROJECT

REFERENCE
ECGS_201116_3.1_v1

SHEET NUMBER	DATE
1 of 1	16/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY
- Study Area
- R4 Bidding Area - Eastern Regions
- Potential Landfall Area

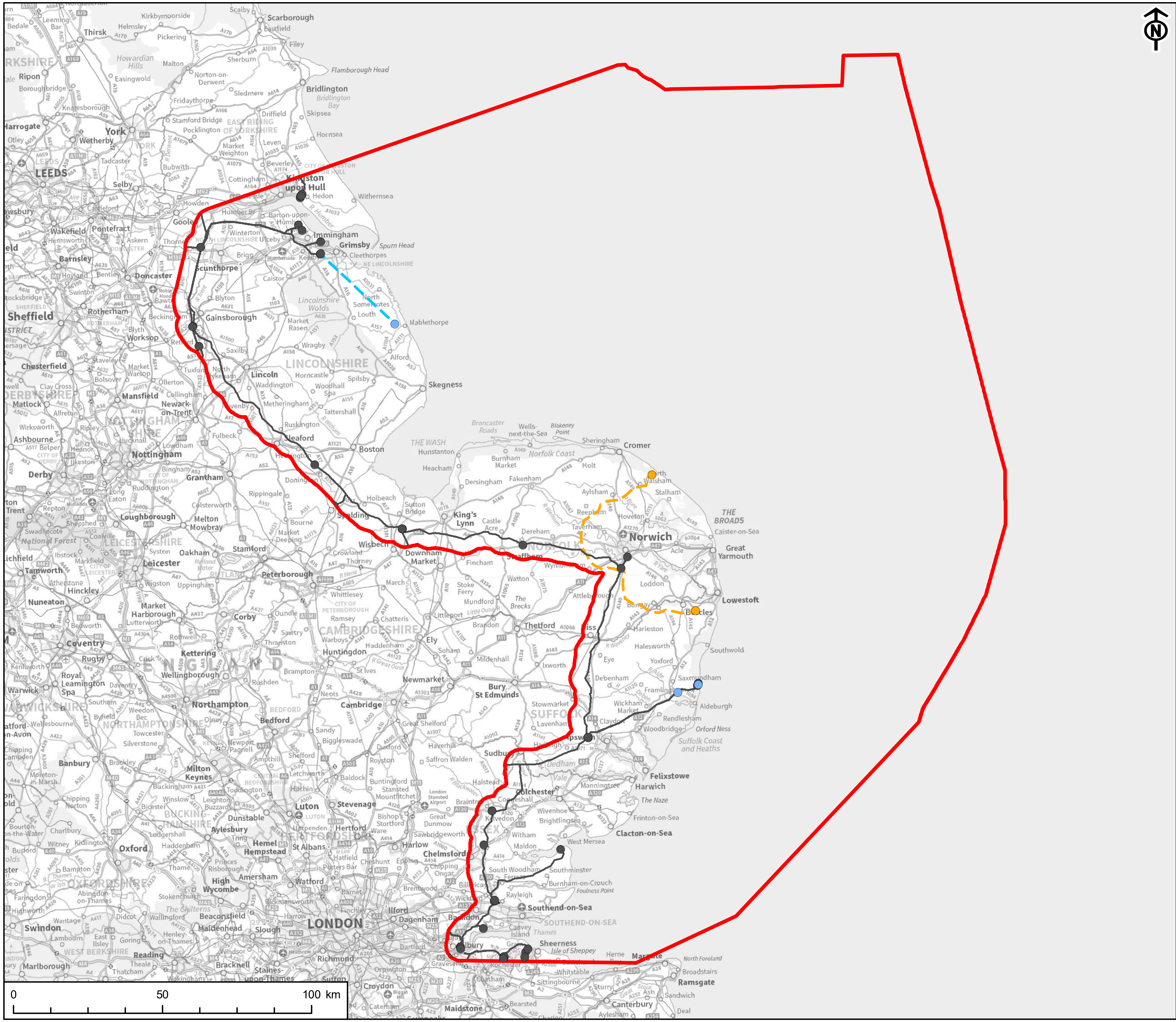
TITLE
FIGURE B13
POTENTIAL LANDFALL AREAS

REFERENCE
ECGS_201116_4.2_v1

SHEET NUMBER: 1 of 1

DATE: 16/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

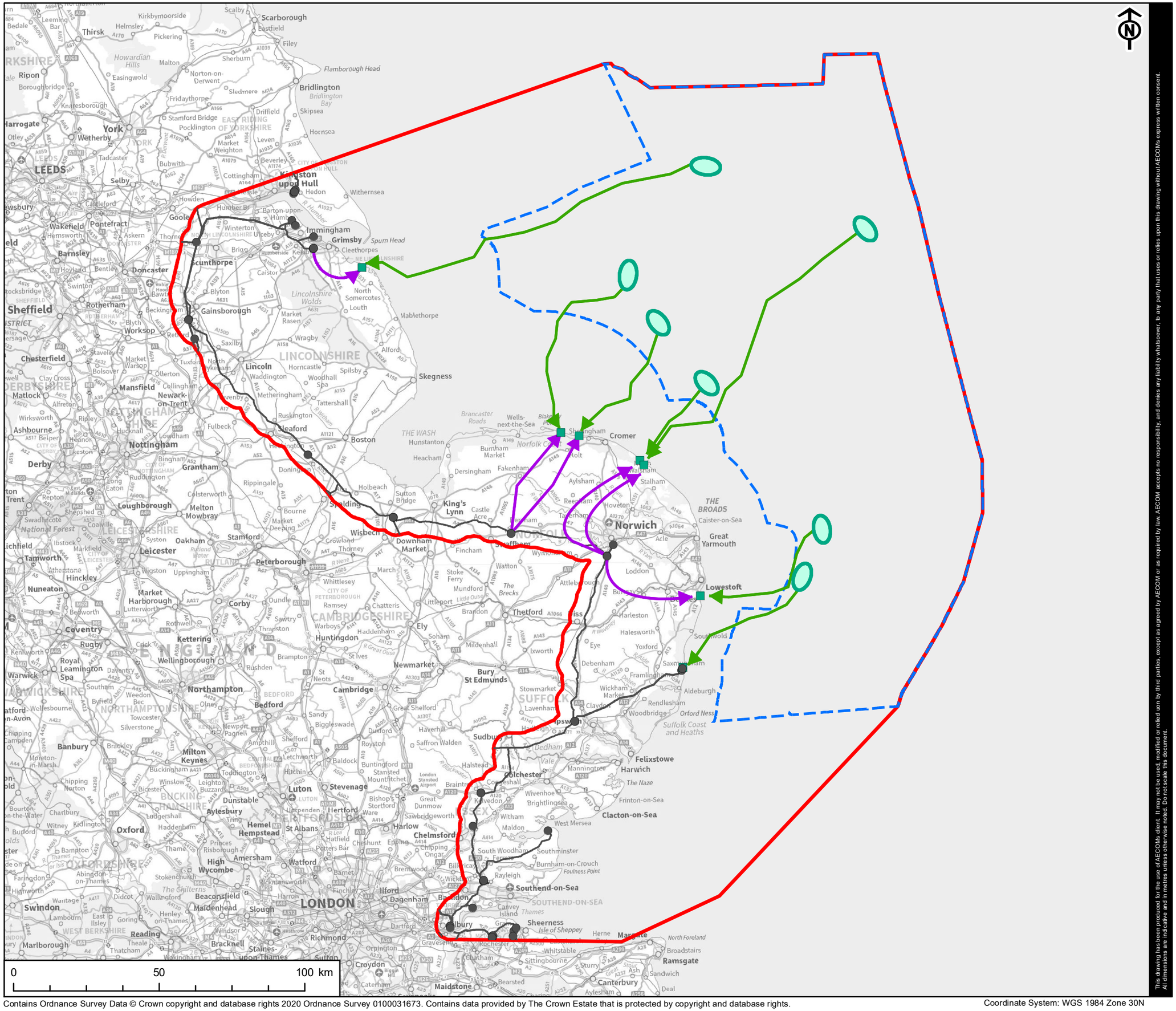
KEY
- Study Area
- Existing Substation Location
- Planned Substation Location
- Additional Connection Point
- Existing Overhead Line
- Planned Route (Indicative)
- Additional Connection Route (Indicative)

TITLE
FIGURE B14
POTENTIAL GRID CONNECTION POINTS

REFERENCE
ECGS_201118_4.3_v1

SHEET NUMBER: 1 of 1
DATE: 18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- R4 Bidding Area - Eastern Regions
- Potential Landfall Area
- Existing Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable Route
- Potential Offshore Export Cable Route
- Conceptual Offshore Wind Project

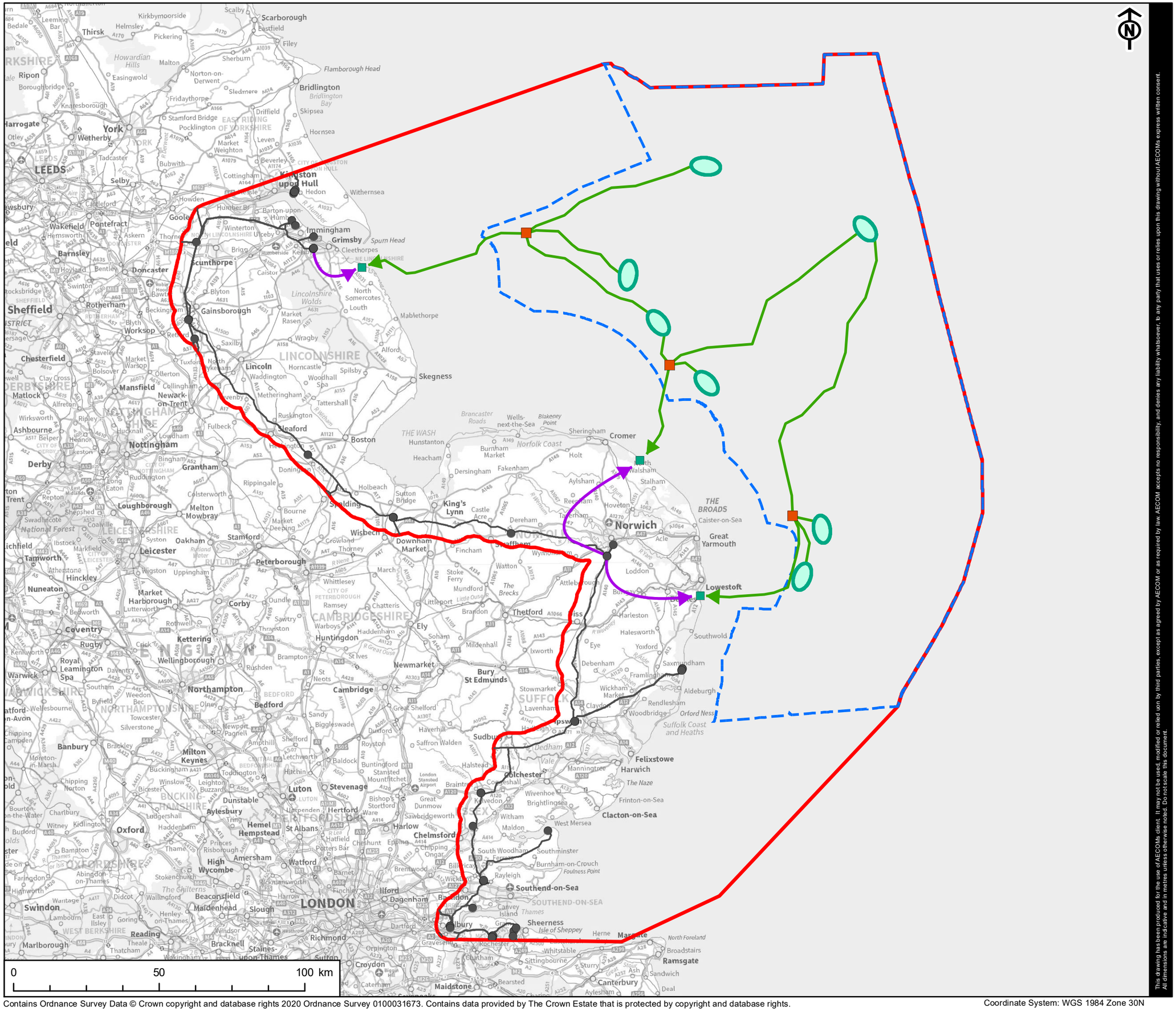
TITLE
Figure B-15
GRID CONNECTION SCENARIO A
OVERVIEW

REFERENCE
ECGS_210416_D_v1

SHEET NUMBER
1 of 1

DATE
16/04/2021

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- R4 Bidding Area - Eastern Regions
- Potential Landfall Area
- Existing Substation Location
- Offshore Hub
- Existing Overhead Line
- Potential Onshore Export Cable Route
- Potential Offshore Export Cable Route
- Conceptual Offshore Wind Project

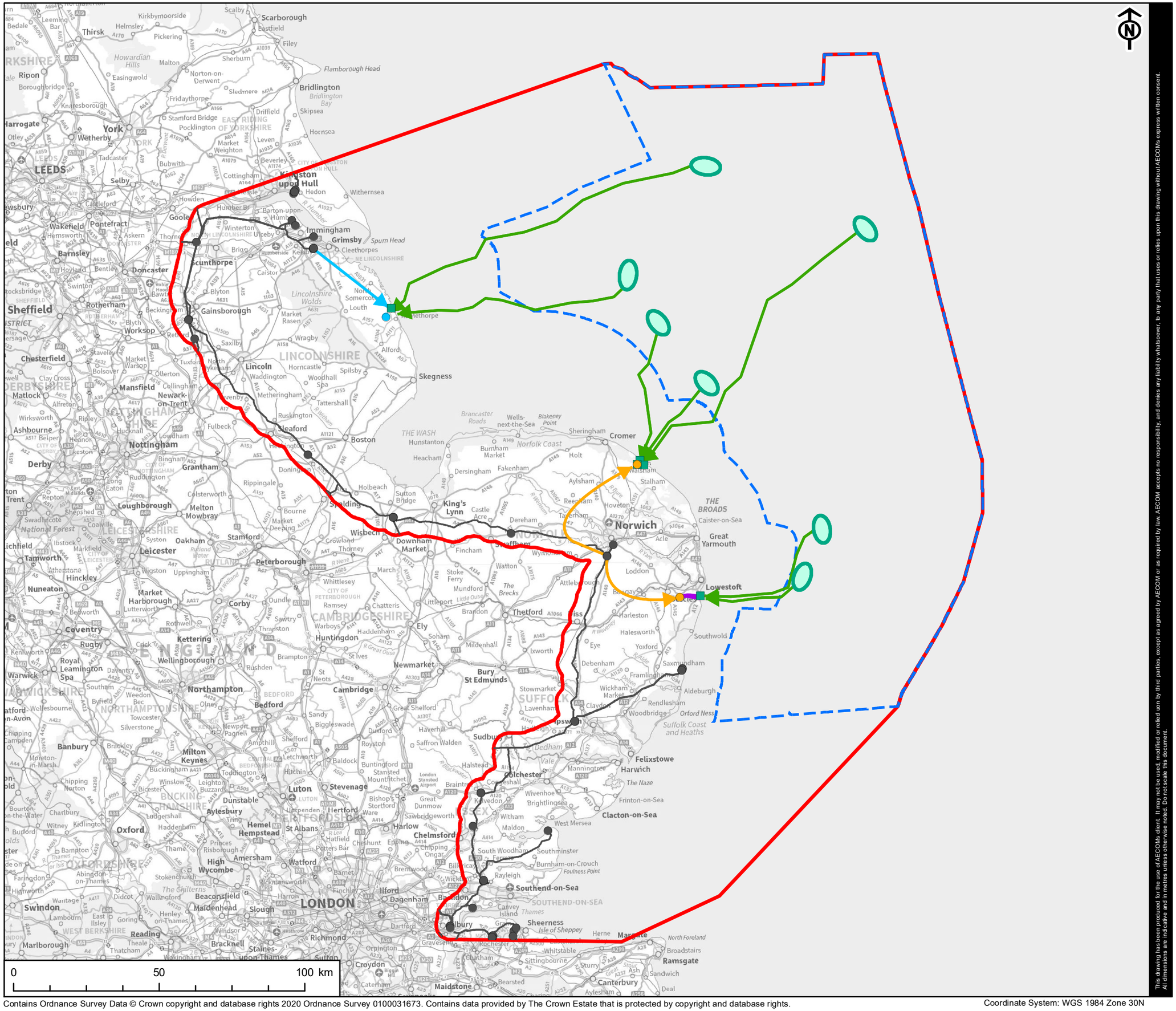
TITLE
FIGURE B-16
GRID CONNECTION SCENARIO B
OVERVIEW

REFERENCE
ECGS_210416_D_v1

SHEET NUMBER
1 of 1

DATE
16/04/2021

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- R4 Bidding Area - Eastern Regions
- Potential Landfall Area
- Existing Substation Location
- Planned Coastal Hub or Node Location (NOA 2019/20)
- Potential Network Extension Coastal Hub or Node Location
- Existing Overhead Line
- Potential Onshore Export Cable Route
- Potential Onshore Network Extension OHL (NOA 2019/20)
- Potential Onshore Network Extension OHL
- Potential Offshore Export Cable Route
- Conceptual Offshore Wind Project

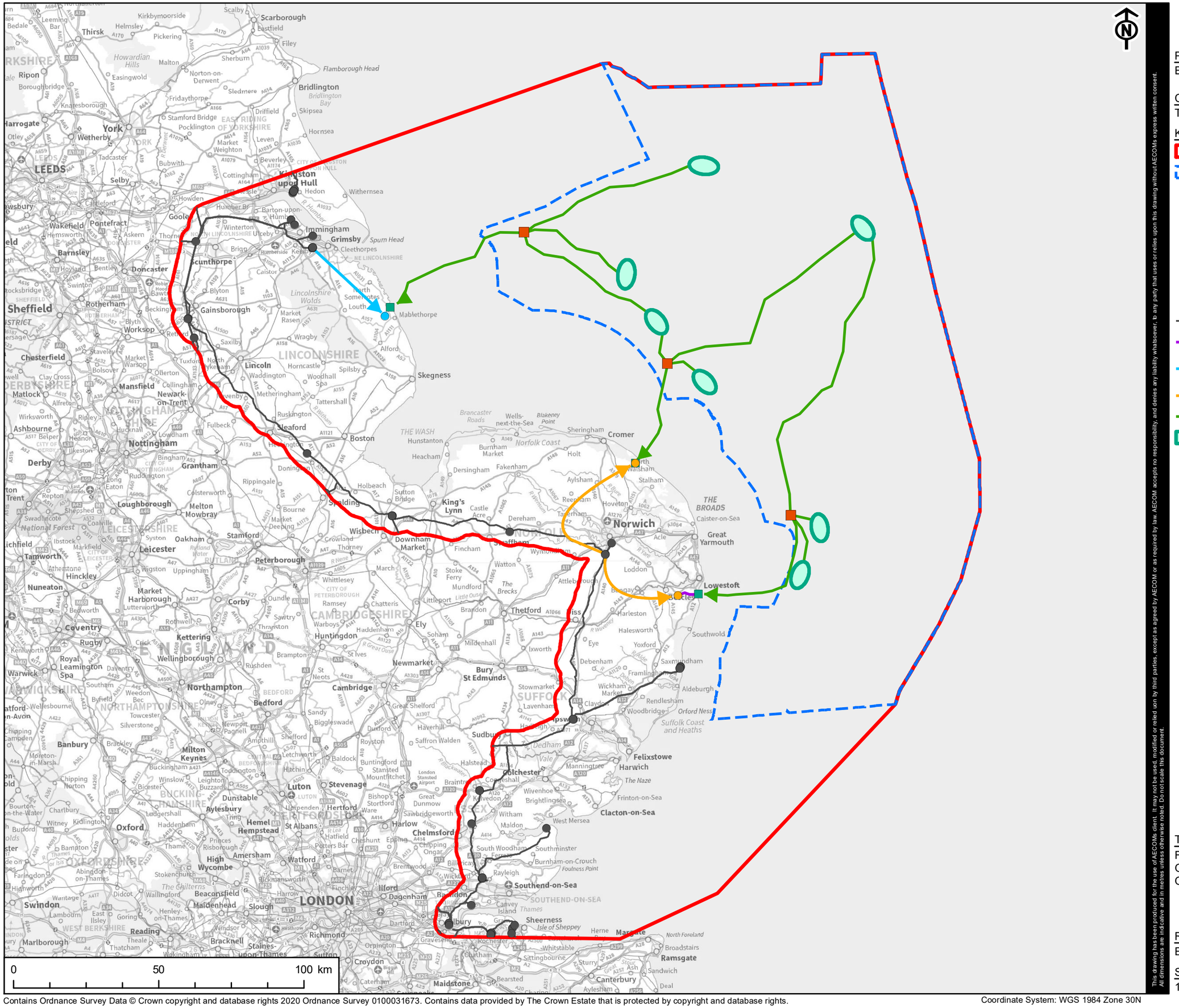
TITLE
FIGURE B-17
GRID CONNECTION SCENARIO C
OVERVIEW

REFERENCE
ECGS_210416_D_v1

SHEET NUMBER
1 of 1

DATE
16/04/2021

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



Scale @ A3 1:1,200,000

0 50 100 km

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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

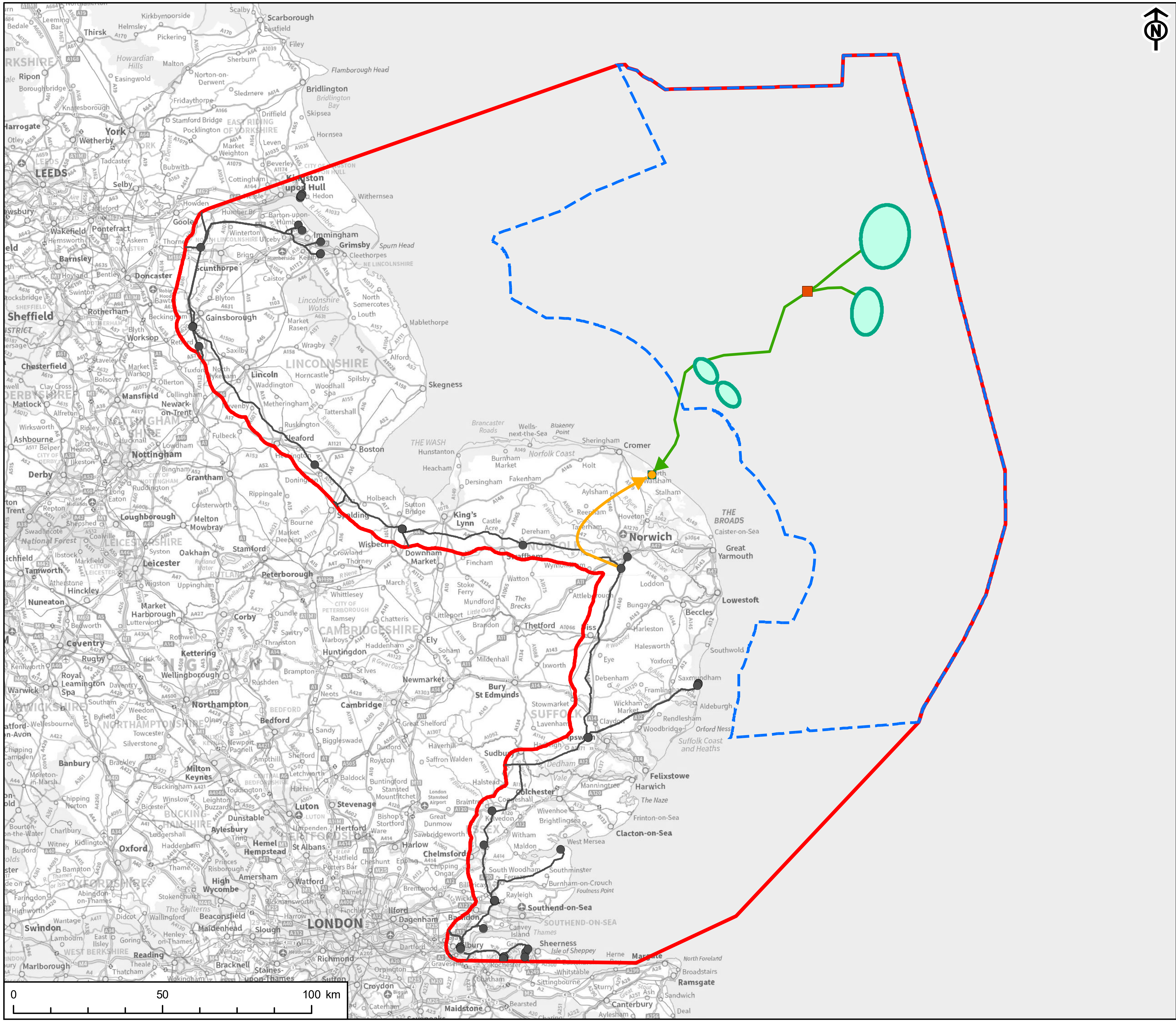
TITLE
FIGURE B-18
GRID CONNECTION SCENARIO D
OVERVIEW

REFERENCE
ECGS_210416_D_v1

SHEET NUMBER
1 of 1

DATE
16/04/2021

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



Scale @ A3 1:1,200,000

AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY
- Study Area
- R4 Bidding Area - Eastern Regions
- Potential Landfall Area
- Existing Substation Location
- Potential Network Extension Coastal Hub or Node Location
- Offshore Hub
- Existing Overhead Line
- Potential Onshore Network Extension OHL
- Potential Offshore Export Cable Route
- Conceptual Offshore Wind Project

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TITLE
FIGURE B-19
GRID CONNECTION SCENARIO E
OVERVIEW

REFERENCE
ECGS_210416_D_v1

SHEET NUMBER 1 of 1
DATE 16/04/2021

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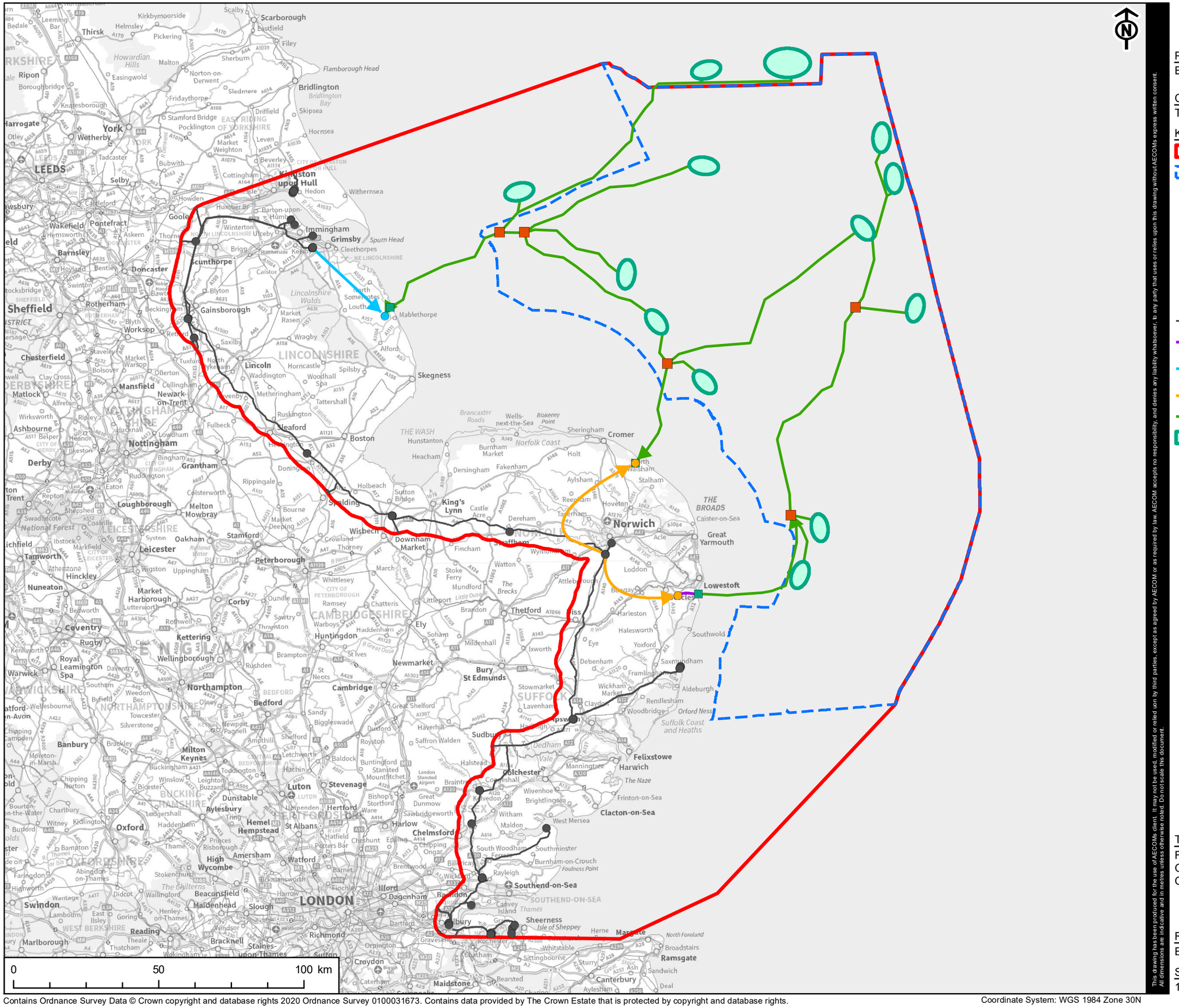
Coordinate System: WGS 1984 Zone 30N

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- R4 Bidding Area - Eastern Regions
- Potential Landfall Area
- Existing Substation Location
- Planned Coastal Hub or Node Location (NOA 2019/20)
- Potential Network Extension Coastal Hub or Node Location
- Offshore Hub
- Existing Overhead Line
- Potential Onshore Export Cable Route
- Potential Onshore Network Extension OHL (NOA 2019/20)
- Potential Onshore Network Extension OHL
- Potential Offshore Export Cable Route
- Conceptual Offshore Wind Project

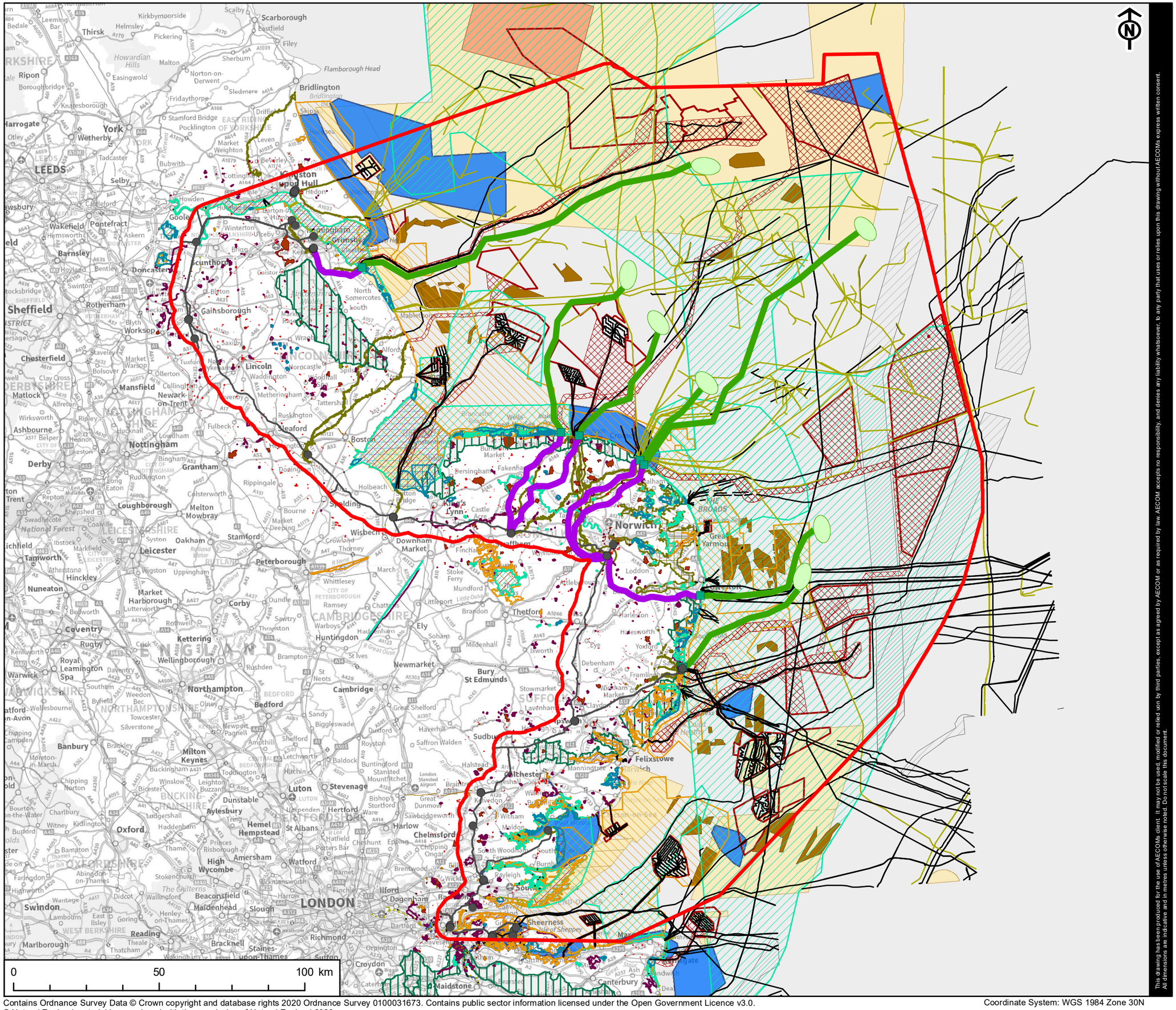
TITLE
FIGURE B-20
GRID CONNECTION SCENARIO F
OVERVIEW

REFERENCE
ECGS_210416_D_v1

SHEET NUMBER
1 of 1

DATE
16/04/2021

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Potential Landfall Area
- Existing Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Potential Offshore Export Cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Carbon Capture and Storage Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

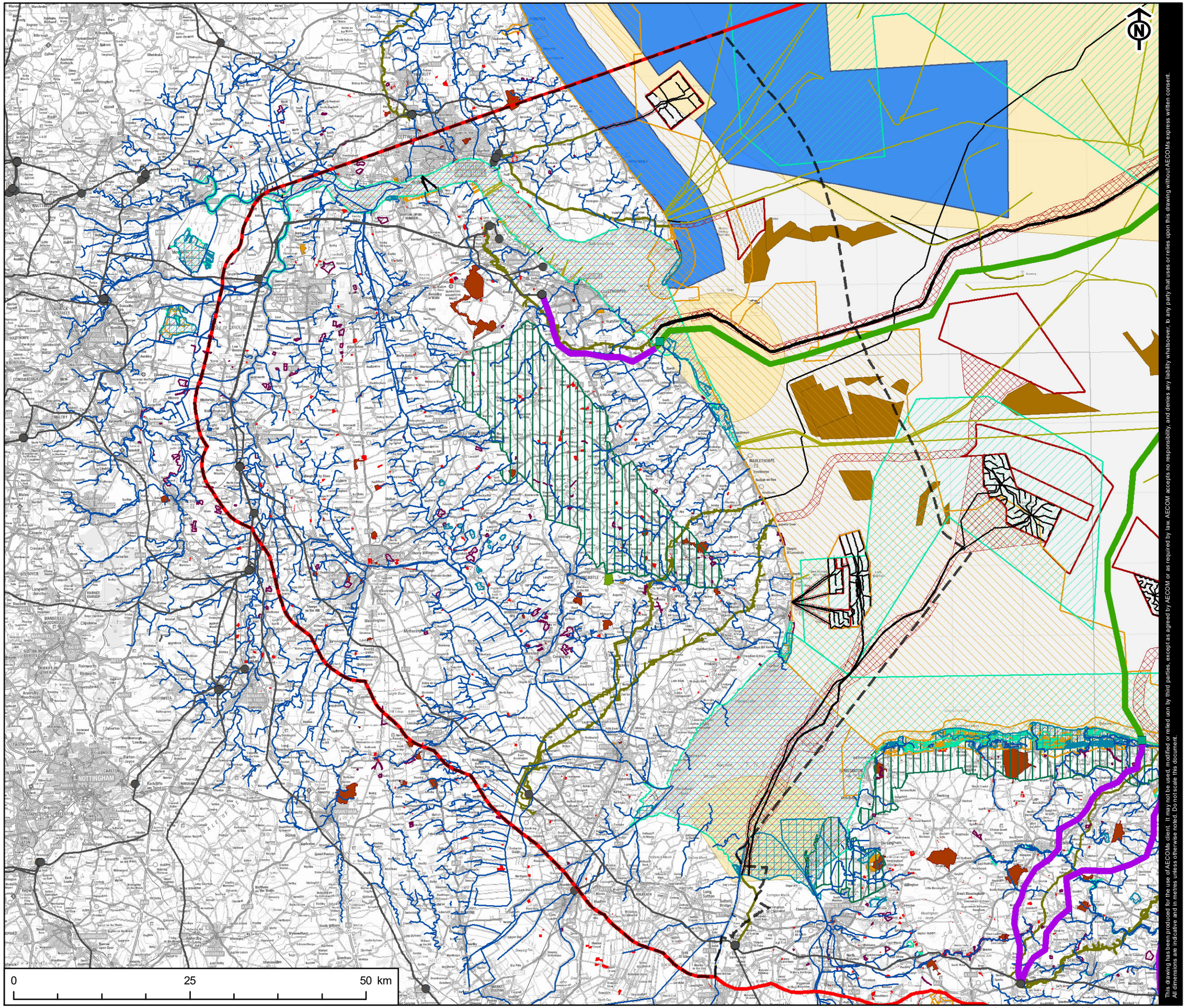
TITLE
FIGURE B21
SCENARIO A
CONSTRAINTS OVERVIEW

REFERENCE
ECGS_201118_5.1_v1

SHEET NUMBER
1 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Lincolnshire Sub-region
- Potential Landfall Area
- Existing Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Potential Offshore Export cable
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Area of Outstanding Natural Beauty
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

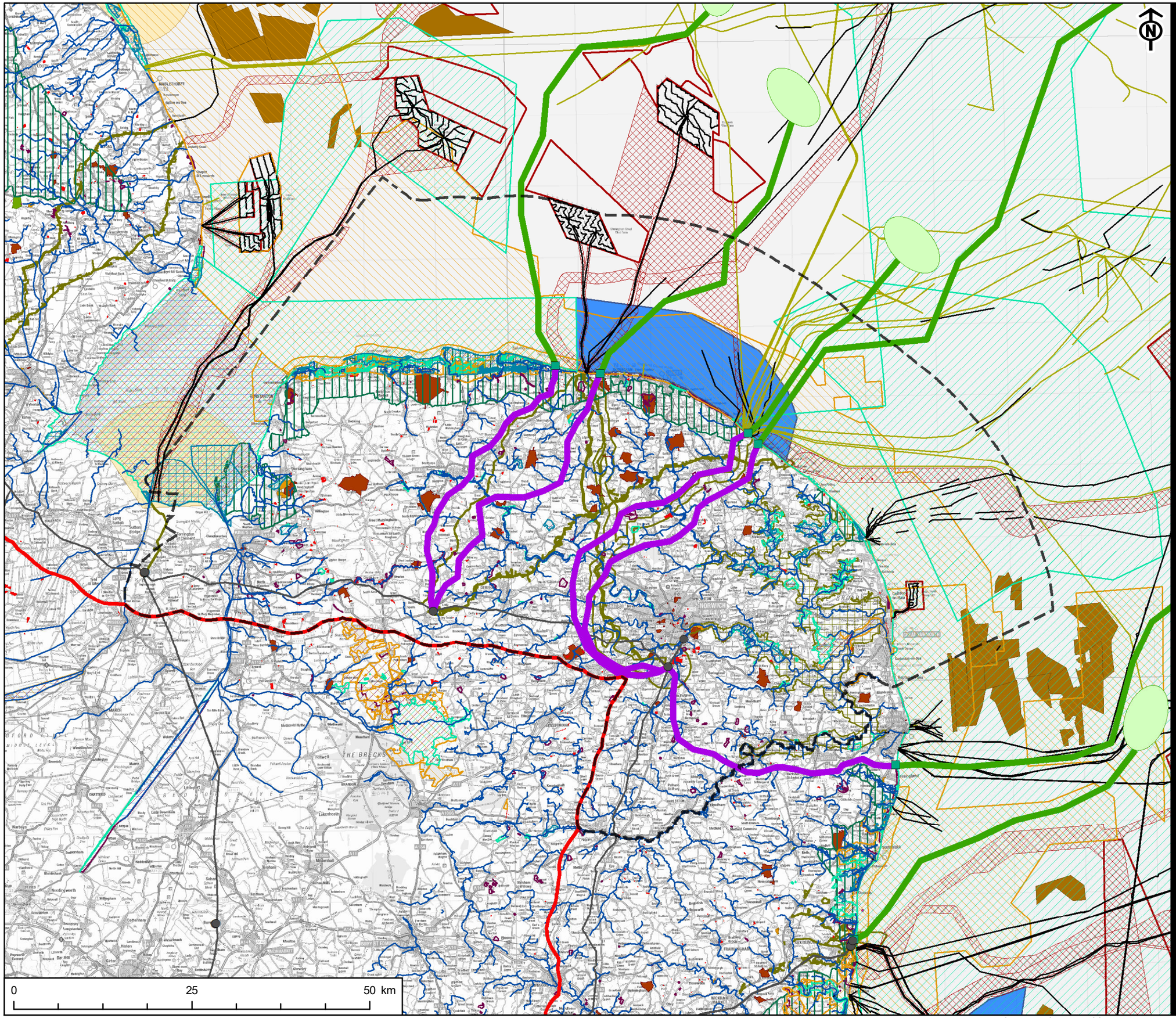
TITLE
FIGURE B21
SCENARIO A CONSTRAINTS
LINCOLNSHIRE SUB-REGION

REFERENCE
ECGS_201118_5.1_v1

SHEET NUMBER
2 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Norfolk Sub-region
- Potential Landfall Area
- Existing Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Potential Offshore Export cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

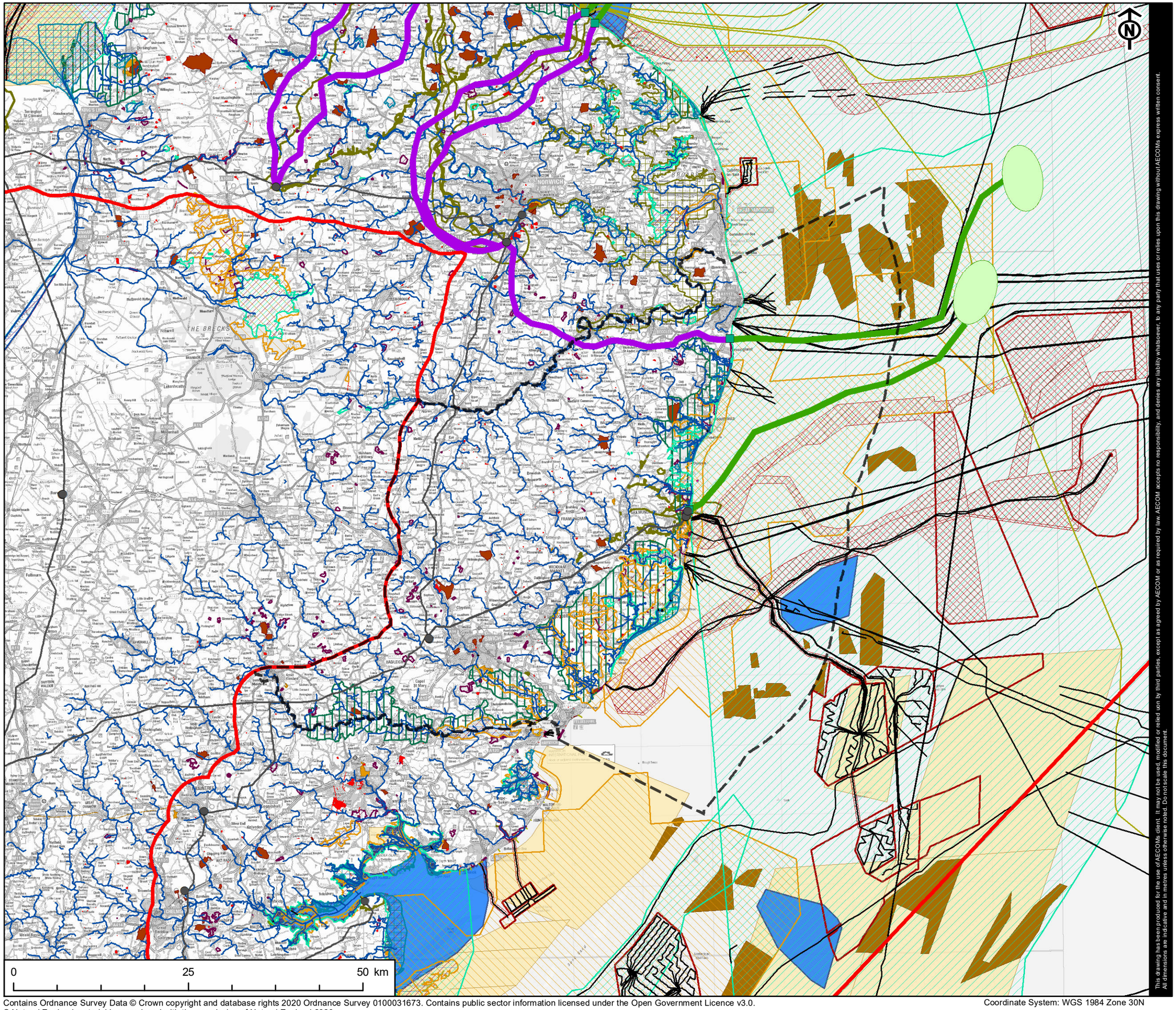
TITLE
FIGURE B21
SCENARIO A CONSTRAINTS
NORFOLK SUB-REGION

REFERENCE
ECGS_201118_5.1_v1

SHEET NUMBER
3 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Suffolk Sub-region
- Potential Landfall Area
- Existing Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Potential Offshore Export cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

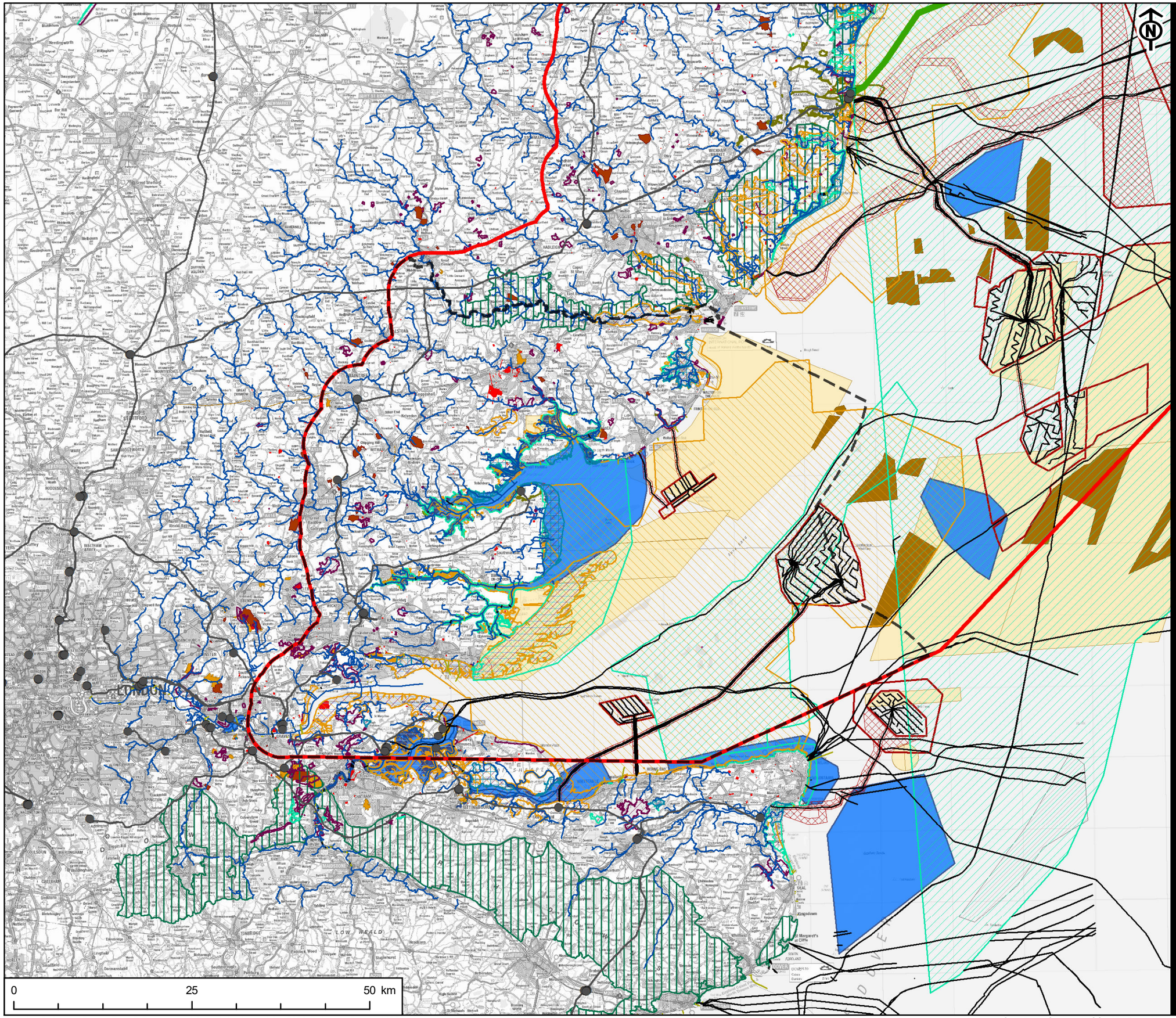
TITLE
FIGURE B21
SCENARIO A CONSTRAINTS
SUFFOLK SUB-REGION

REFERENCE
ECGS_201118_5.1_v1

SHEET NUMBER
4 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Essex Sub-region
- Potential Landfall Area
- Existing Substation Location
- Existing Overhead Line
- Potential Offshore Export cable
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

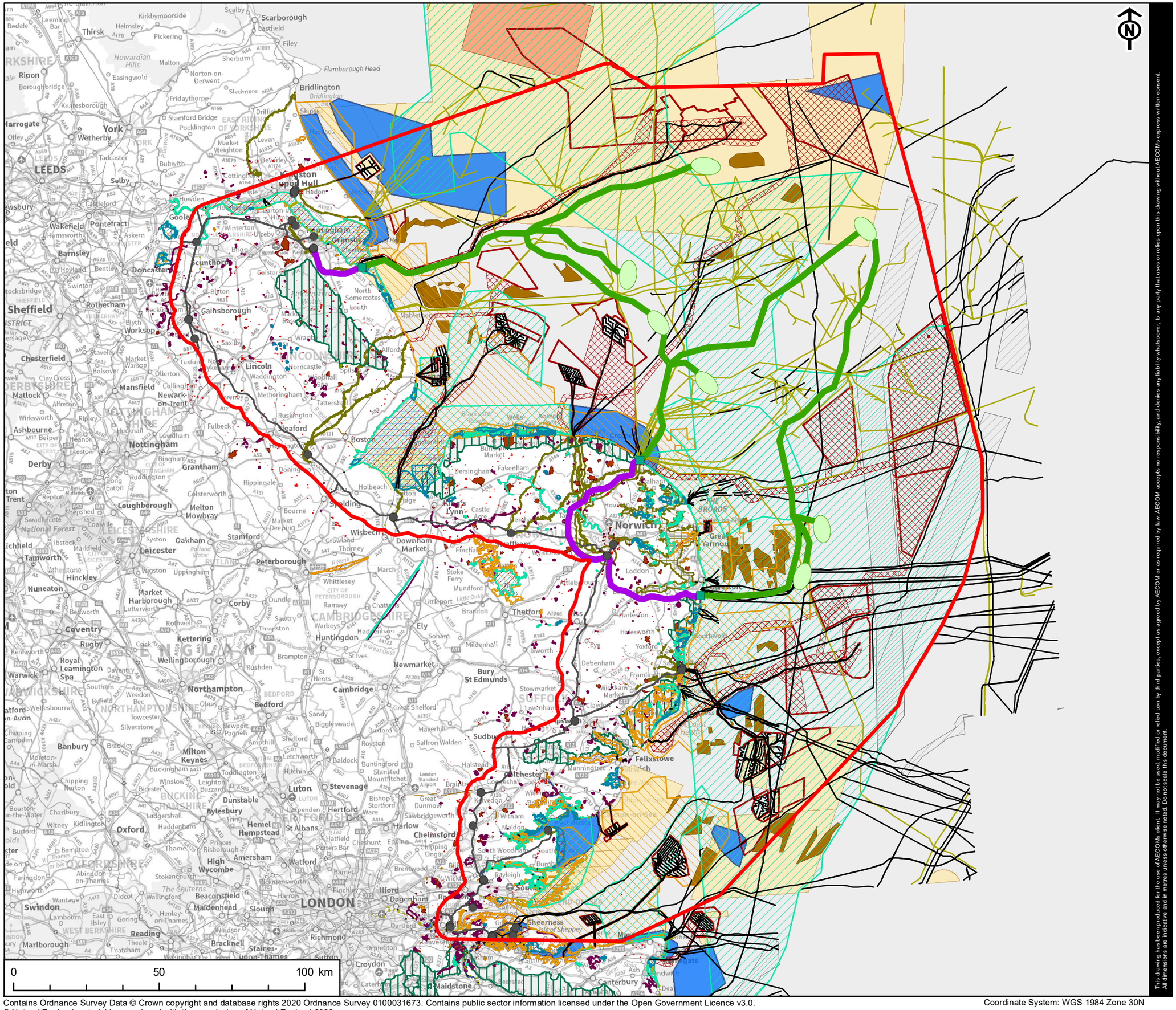
TITLE
FIGURE B21
SCENARIO A CONSTRAINTS
ESSEX SUB-REGION

REFERENCE
ECGS_201118_5.1_v1

SHEET NUMBER
5 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Potential Landfall Area
- Existing Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Potential Offshore Export Cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Carbon Capture and Storage Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

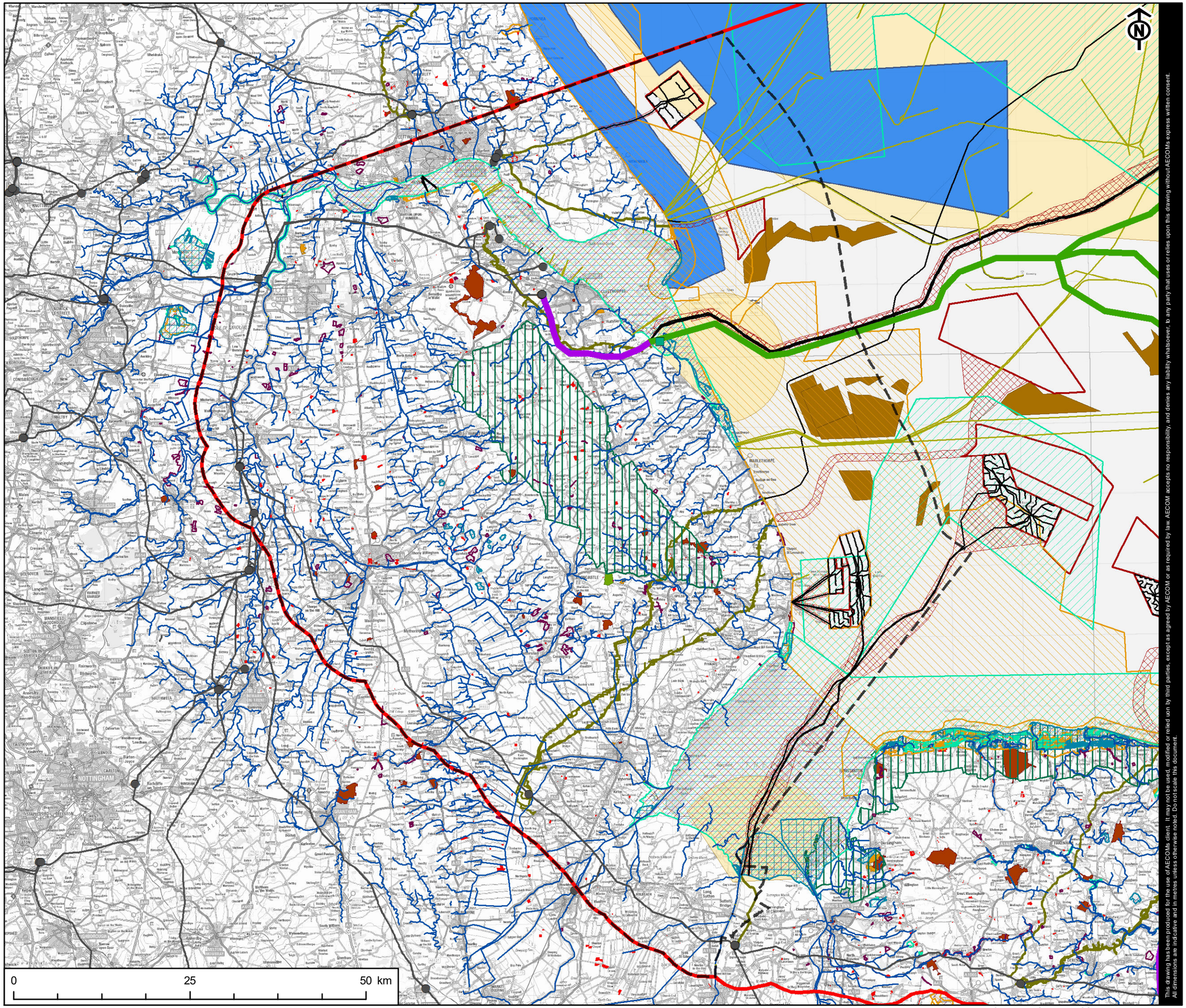
TITLE
FIGURE B22
SCENARIO B
CONSTRAINTS OVERVIEW

REFERENCE
ECGS_201118_5.2_v1

SHEET NUMBER
1 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Lincolnshire Sub-region
- Potential Landfall Area
- Existing Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Potential Offshore Export cable
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Area of Outstanding Natural Beauty
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

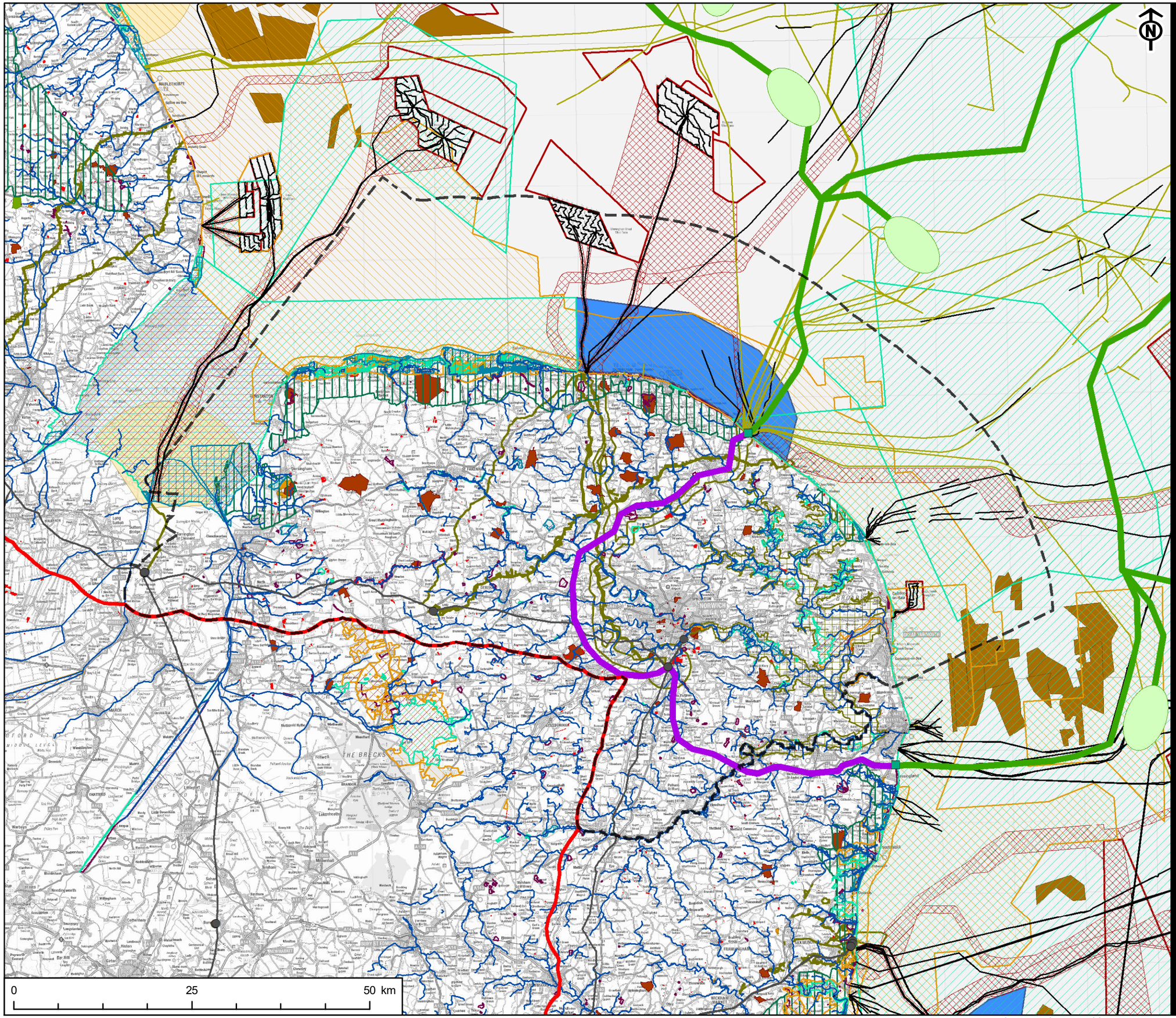
TITLE
FIGURE B22
SCENARIO B CONSTRAINTS
LINCOLNSHIRE SUB-REGION

REFERENCE
ECGS_201118_5.2_v1

SHEET NUMBER
2 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Norfolk Sub-region
- Potential Landfall Area
- Existing Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Potential Offshore Export cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

TITLE
FIGURE B22
SCENARIO B CONSTRAINTS
NORFOLK SUB-REGION

REFERENCE
ECGS_201118_5.2_v1

SHEET NUMBER
3 of 5

DATE
18/11/2020

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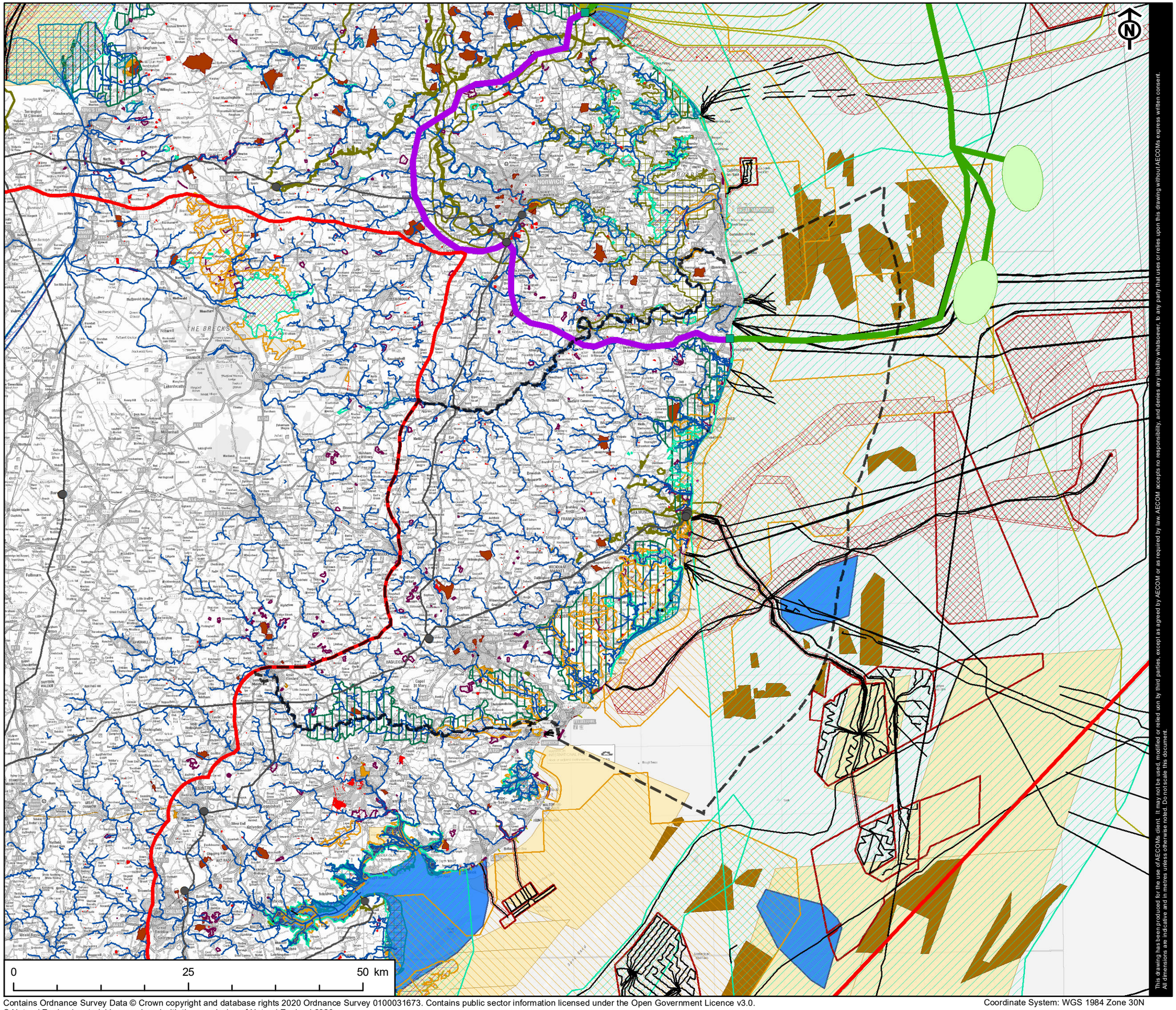

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Suffolk Sub-region
- Potential Landfall Area
- Existing Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Potential Offshore Export cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

TITLE
FIGURE B22
SCENARIO B CONSTRAINTS
SUFFOLK SUB-REGION

REFERENCE
ECGS_201118_5.2_v1

SHEET NUMBER
4 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR

AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Essex Sub-region
- Existing Overhead Line
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

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TITLE
FIGURE B22
SCENARIO B CONSTRAINTS
ESSEX SUB-REGION

REFERENCE
ECGS_201118_5.2_v1

SHEET NUMBER
5 of 5

DATE
18/11/2020

Scale @ A3 1:500,000

0 25 50 km

Coordinate System: WGS 1984 Zone 30N

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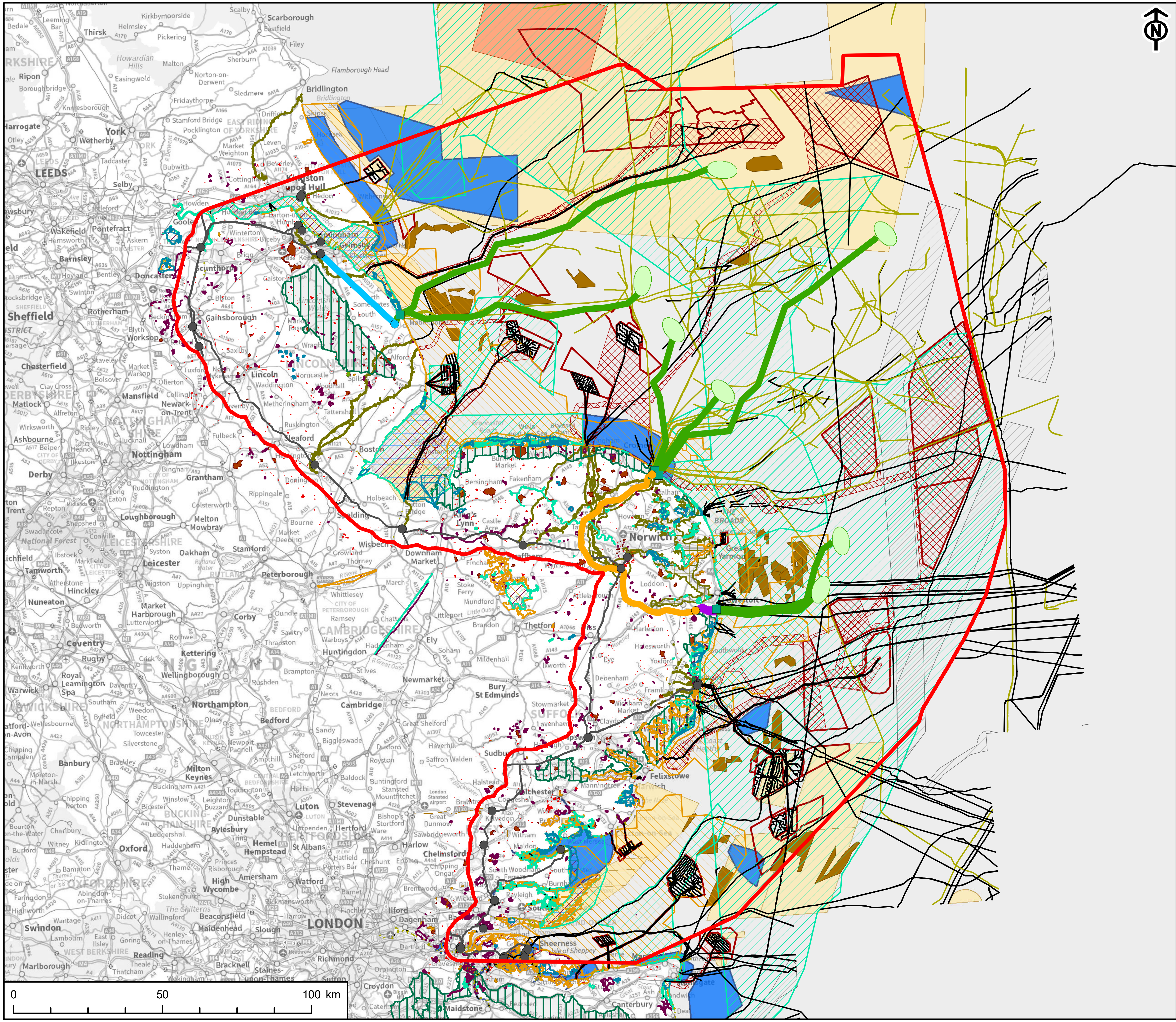

Scale @ A3 1:1,200,000

AECOM

PROJECT

EAST COAST GRID STUDY

CLIENT

THE CROWN ESTATE

KEY

- Study Area
- Potential Landfall Area
- Existing Substation Location
- Planned Substation Location
- Potential Network Extension Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Planned Onshore OHL
- Potential Onshore Network Extension OHL
- Potential Offshore Export cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Carbon Capture and Storage Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

TITLE

FIGURE B23
SCENARIO C
CONSTRAINTS OVERVIEW

REFERENCE

ECGS_201118_5.3_v1

SHEET NUMBER	DATE
1 of 5	18/11/2020

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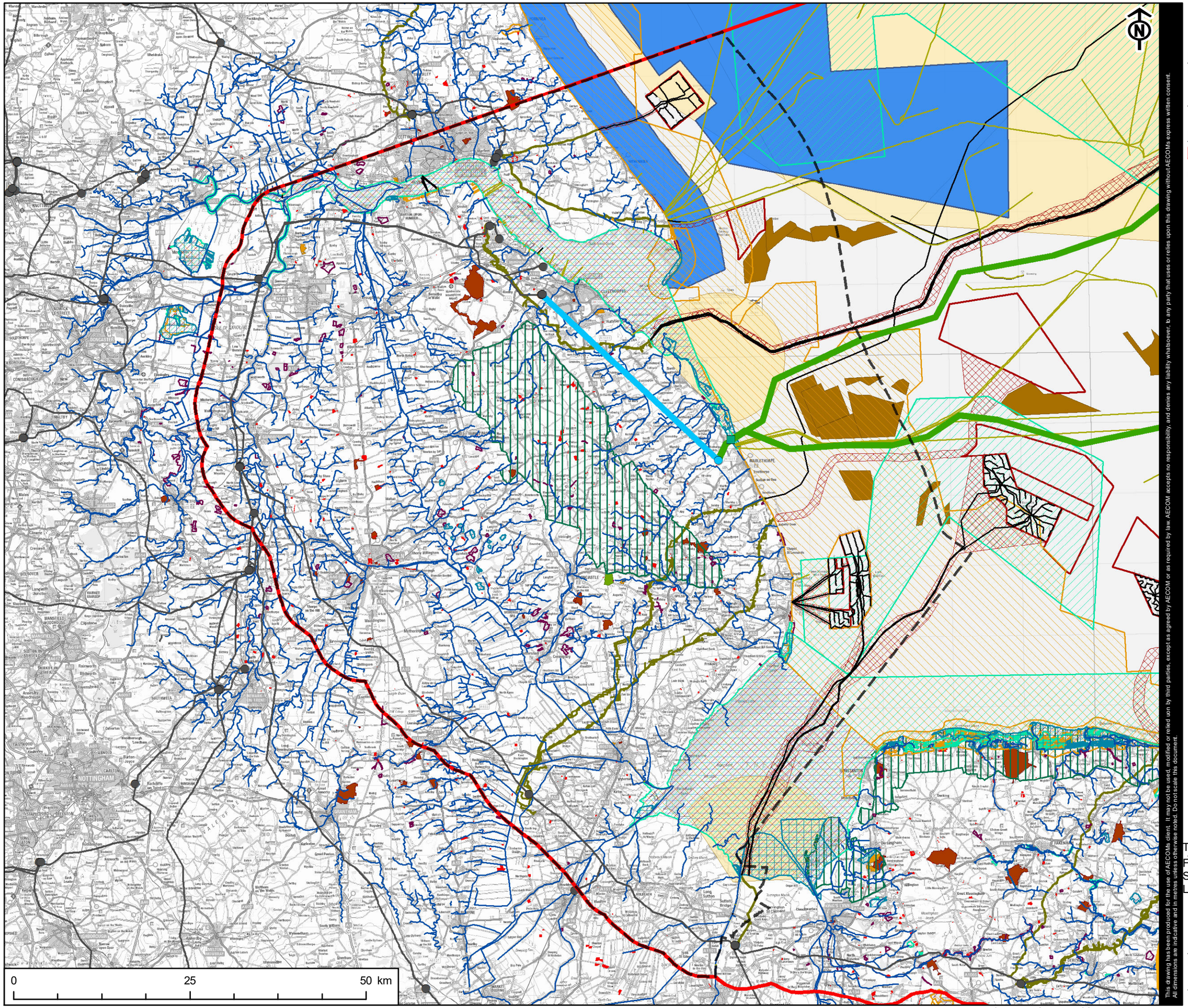
Coordinate System: WGS 1984 Zone 30N

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Lincolnshire Sub-region
- Potential Landfall Area
- Existing Substation Location
- Planned Substation Location
- Existing Overhead Line
- Planned Onshore OHL
- Potential Onshore Network Extension OHL
- Potential Offshore Export cable
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Area of Outstanding Natural Beauty
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

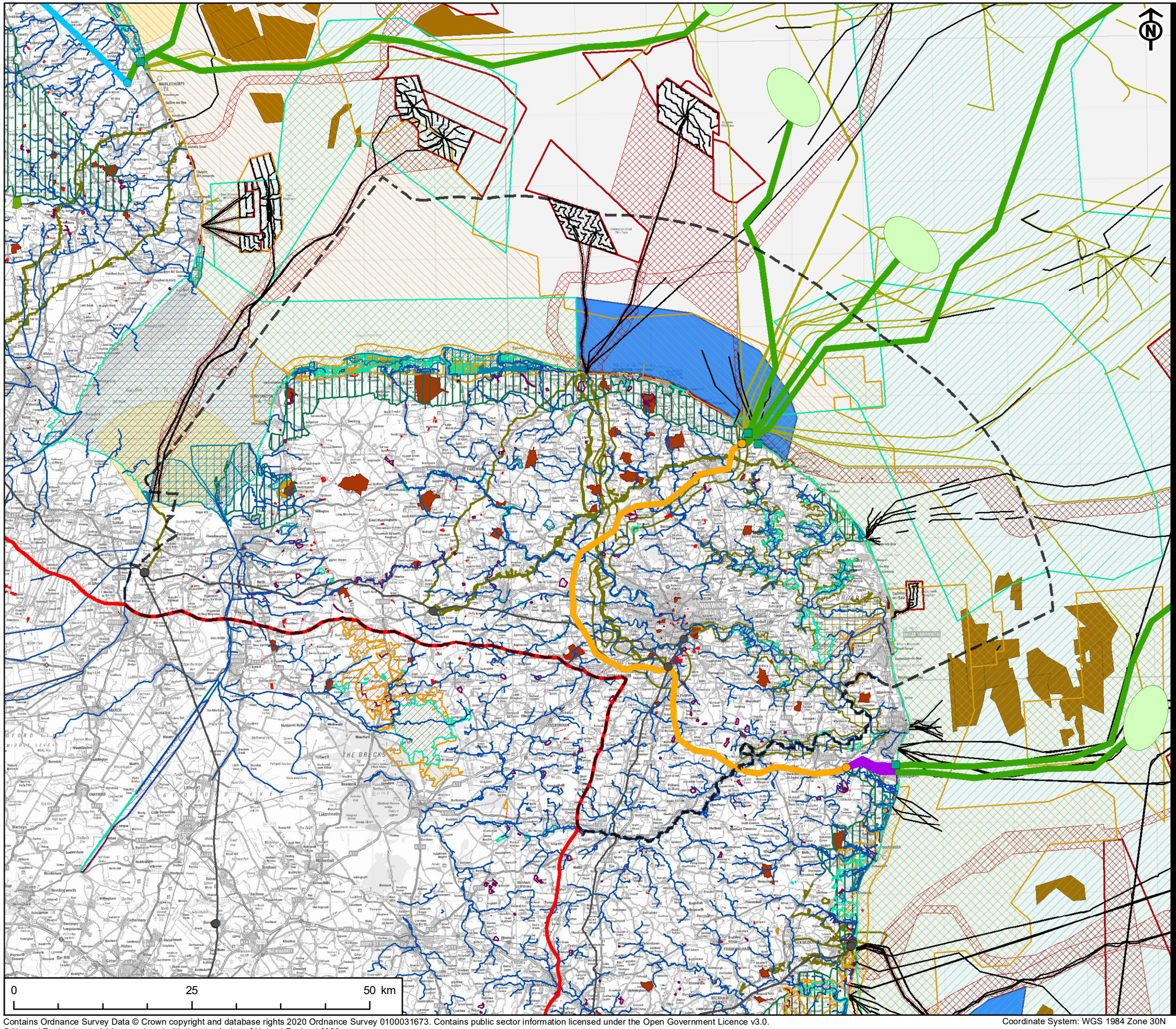
TITLE
FIGURE B23
SCENARIO C CONSTRAINTS
LINCOLNSHIRE SUB-REGION

REFERENCE
ECGS_201118_5.3_v1

SHEET NUMBER
2 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Norfolk Sub-region
- Potential Landfall Area
- Existing Substation Location
- Planned Substation Location
- Potential Network Extension Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Planned Onshore OHL
- Potential Onshore Network Extension OHL
- Potential Offshore Export cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

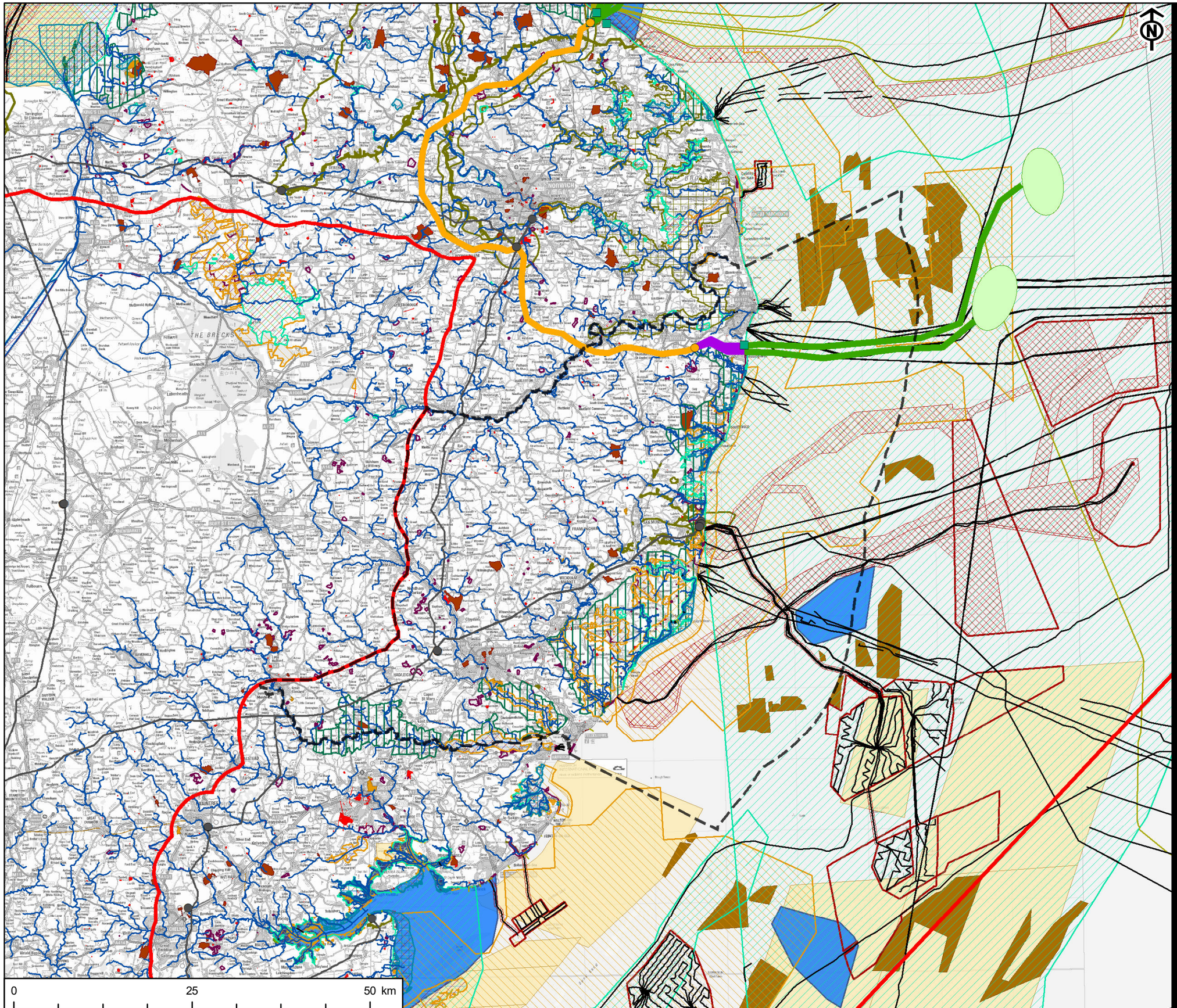
TITLE
FIGURE B23
SCENARIO C CONSTRAINTS
NORFOLK SUB-REGION

REFERENCE
ECGS_201118_5.3_v1

SHEET NUMBER
3 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Suffolk Sub-region
- Potential Landfall Area
- Existing Substation Location
- Potential Network Extension Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Potential Onshore Network Extension OHL
- Potential Offshore Export cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

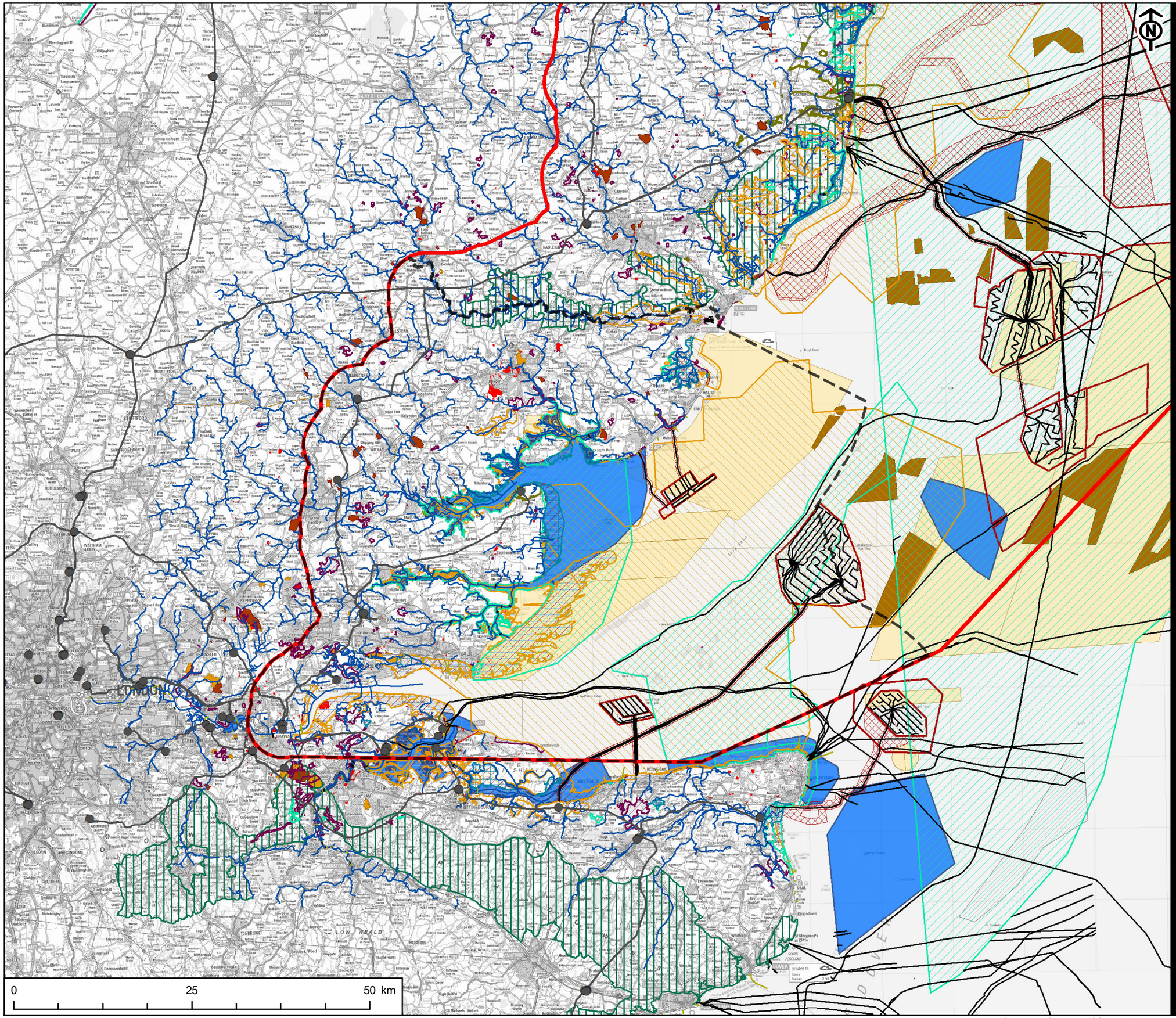
TITLE
FIGURE B23
SCENARIO C CONSTRAINTS
SUFFOLK SUB-REGION

REFERENCE
ECGS_201118_5.3_v1

SHEET NUMBER
4 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



Scale @ A3 1:500,000

0 25 50 km

AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Essex Sub-region
- Existing Overhead Line
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

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TITLE
FIGURE B23
SCENARIO C CONSTRAINTS
ESSEX SUB-REGION

REFERENCE
ECGS_201118_5.3_v1

SHEET NUMBER
5 of 5

DATE
18/11/2020

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Coordinate System: WGS 1984 Zone 30N

Project Management Initials: DR Designer: LC Checked: FF Approved: DR

AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Potential Landfall Area
- Existing Substation Location
- Planned Substation Location
- Potential Network Extension Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Planned Onshore OHL
- Potential Onshore Network Extension OHL
- Potential Offshore Export cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Carbon Capture and Storage Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

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TITLE
FIGURE B24
SCENARIO D
CONSTRAINTS OVERVIEW

REFERENCE
ECGS_201118_5.4_v1

SHEET NUMBER
1 of 5

DATE
18/11/2020

Scale @ A3 1:1,200,000

0 50 100 km

Coordinate System: WGS 1984 Zone 30N

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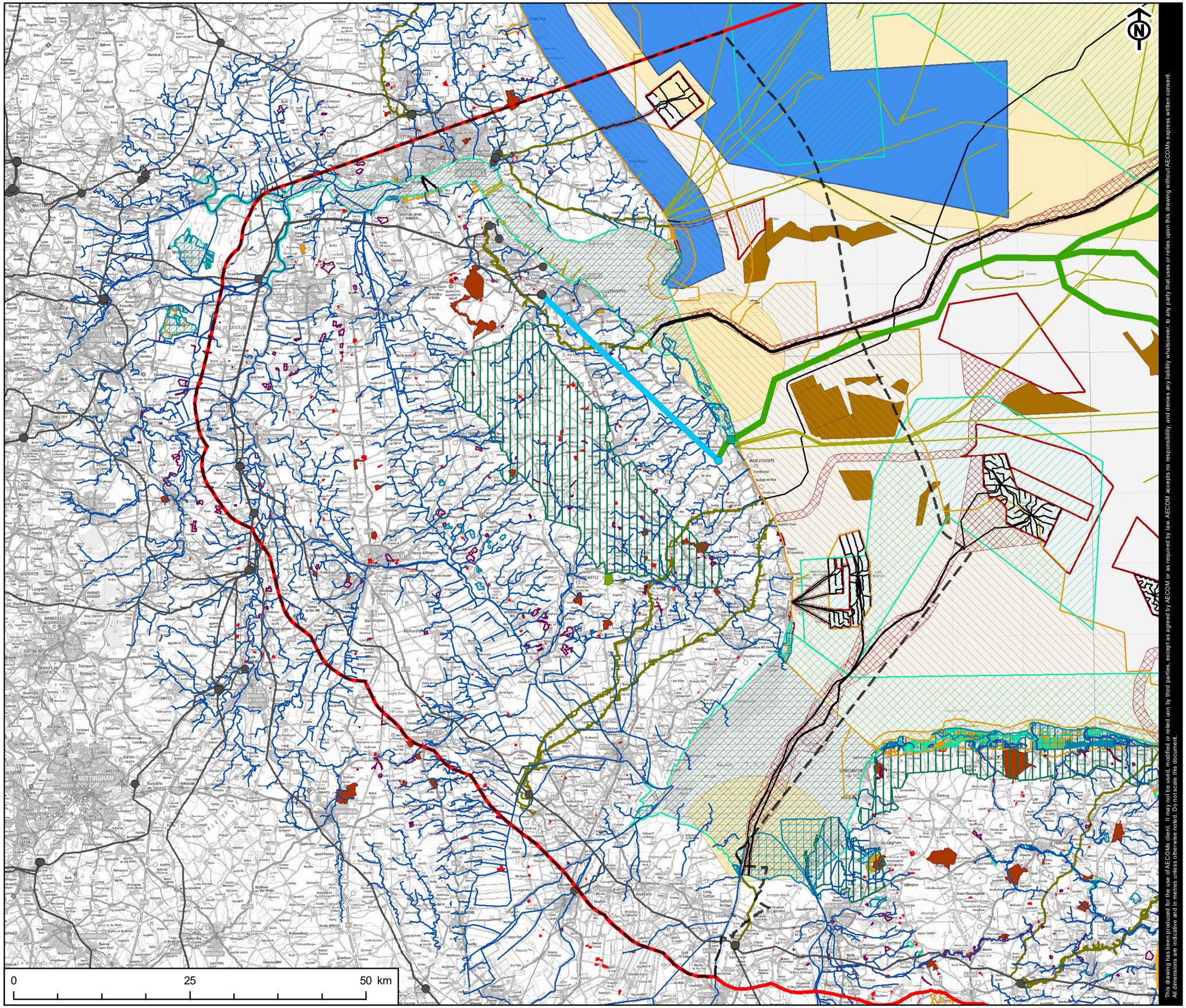

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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Lincolnshire Sub-region
- Potential Landfall Area
- Existing Substation Location
- Planned Substation Location
- Existing Overhead Line
- Planned Onshore OHL
- Potential Onshore Network Extension OHL
- Potential Offshore Export Cable
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Area of Outstanding Natural Beauty
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

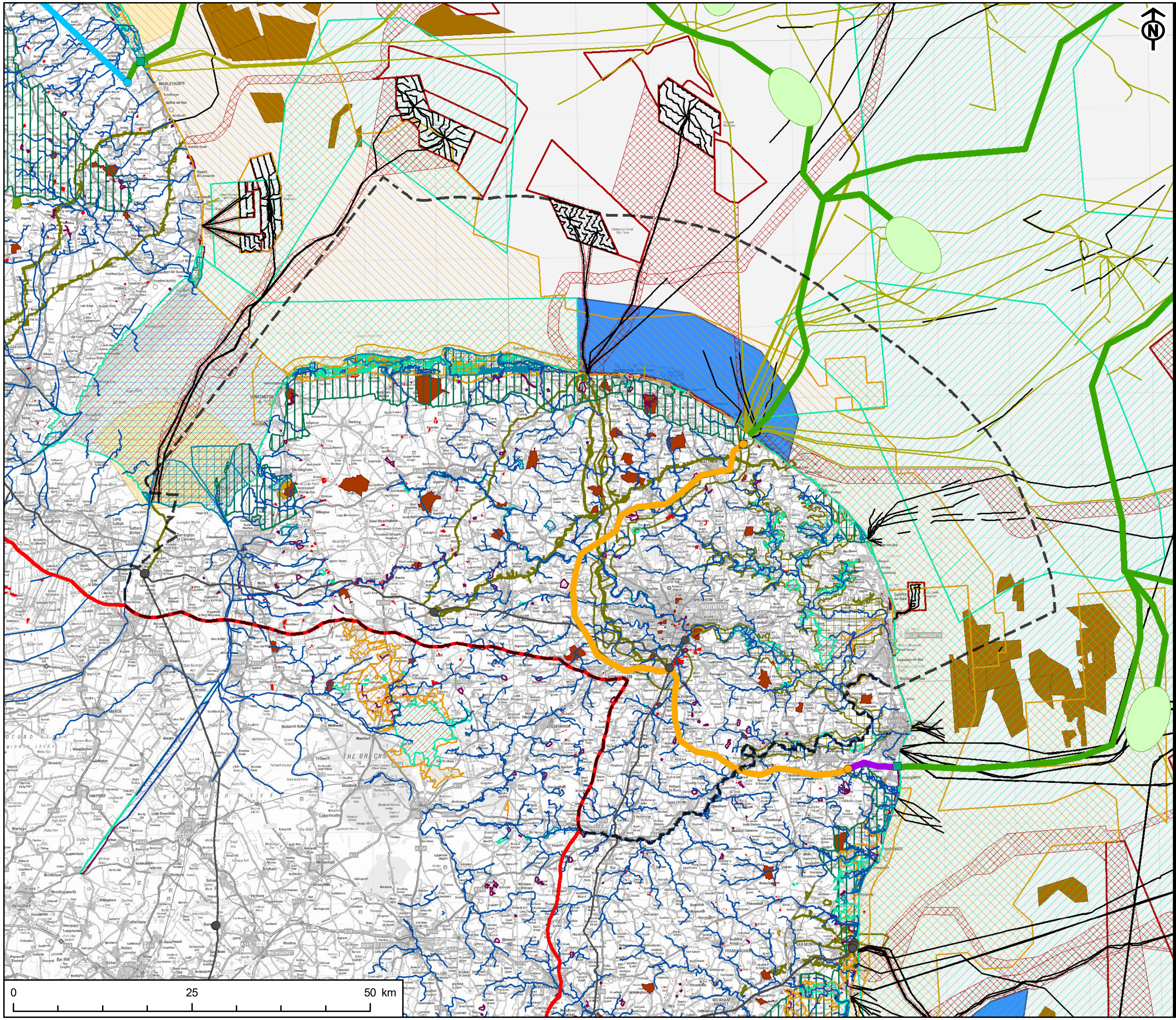
TITLE
FIGURE B24
SCENARIO D CONSTRAINTS
LINCOLNSHIRE SUB-REGION

REFERENCE
ECGS_201118_5.4_v1

SHEET NUMBER
2 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY
- Study Area
- Norfolk Sub-region
- Potential Landfall Area
- Existing Substation Location
- Planned Substation Location
- Potential Network Extension Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Planned Onshore OHL
- Potential Onshore Network Extension OHL
- Potential Offshore Export Cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

TITLE
FIGURE B24
SCENARIO D CONSTRAINTS
NORFOLK SUB-REGION

REFERENCE
ECGS_201118_5.4_v1

SHEET NUMBER 3 of 5
DATE 18/11/2020

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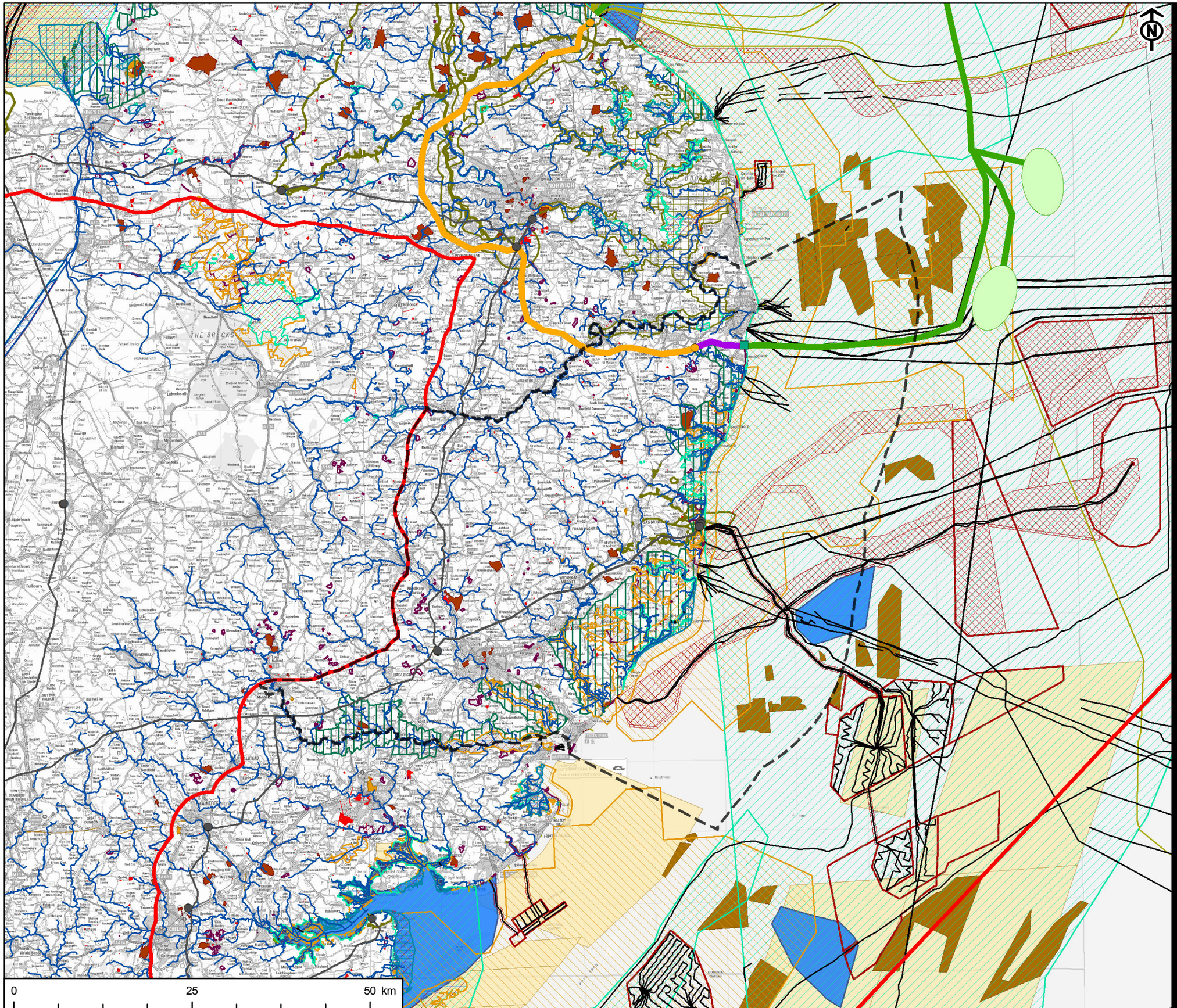
Coordinate System: WGS 1984 Zone 30N

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Suffolk Sub-region
- Potential Landfall Area
- Existing Substation Location
- Potential Network Extension Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Potential Onshore Network Extension OHL
- Potential Offshore Export Cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

TITLE
FIGURE B24
SCENARIO D CONSTRAINTS
SUFFOLK SUB-REGION

REFERENCE
ECGS_201118_5.4_v1

SHEET NUMBER
4 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR

AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Essex Sub-region
- Existing Overhead Line
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

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TITLE
FIGURE B24
SCENARIO D CONSTRAINTS
ESSEX SUB-REGION

REFERENCE
ECGS_201118_5.4_v1

SHEET NUMBER
5 of 5

DATE
18/11/2020

Scale @ A3 1:500,000

0 25 50 km

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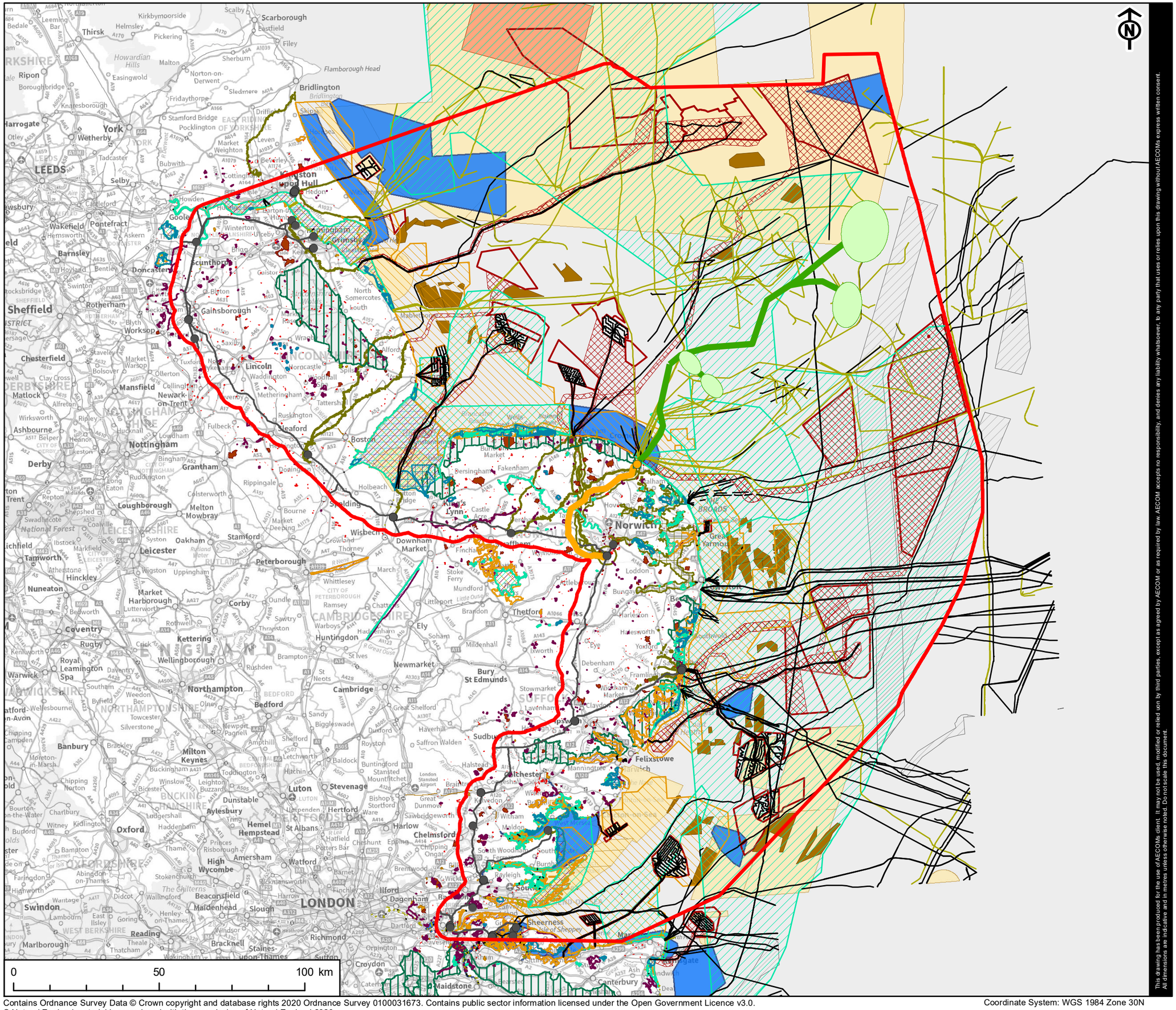
Coordinate System: WGS 1984 Zone 30N

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



Scale @ A3 1:1,200,000

0 50 100 km

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Coordinate System: WGS 1984 Zone 30N

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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Potential Landfall Area
- Existing Substation Location
- Potential Network Extension Substation Location
- Existing Overhead Line
- Potential Onshore Network Extension OHL
- Potential Offshore Export Cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Carbon Capture and Storage Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

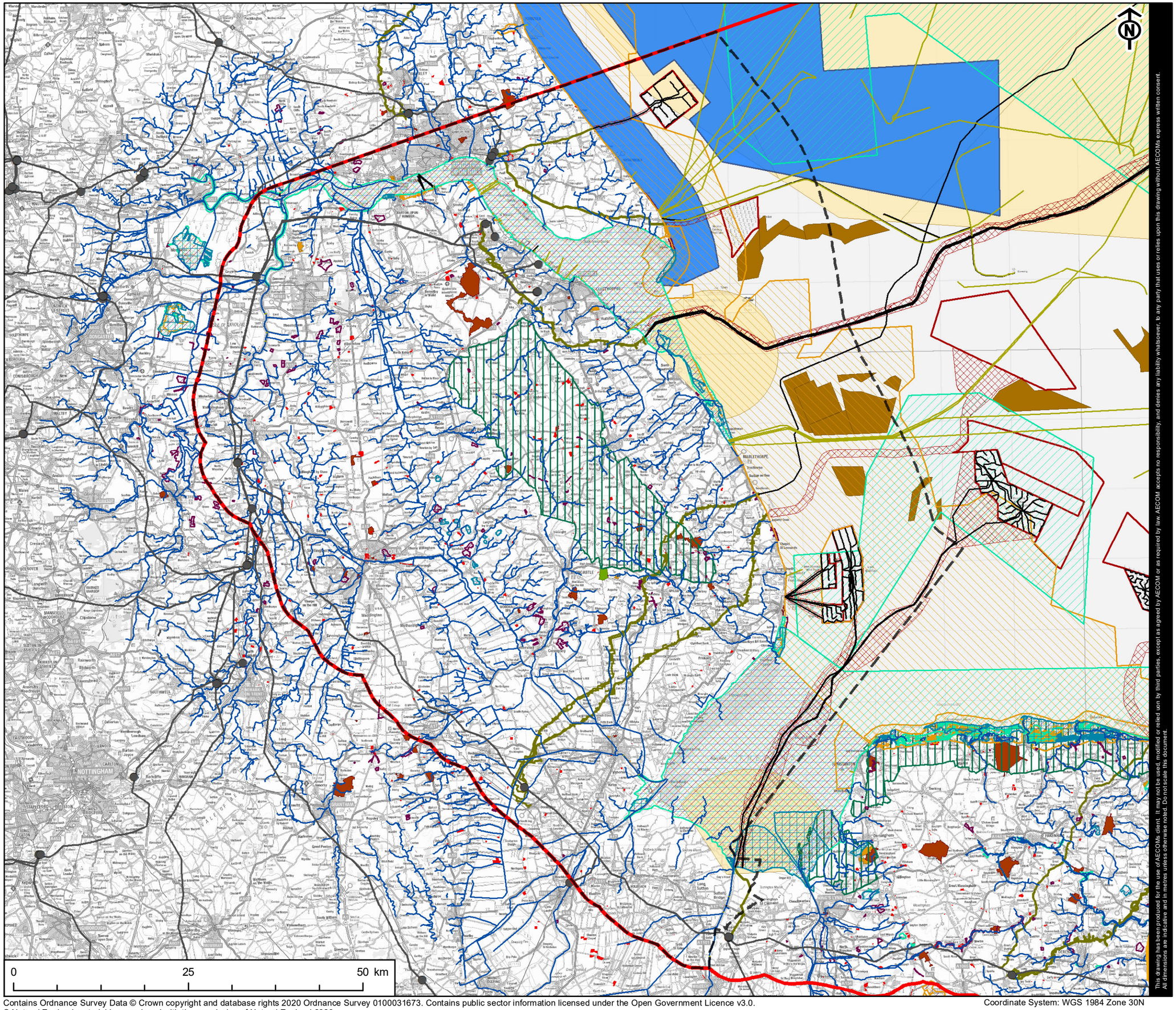
TITLE
FIGURE B25
SCENARIO E
CONSTRAINTS OVERVIEW

REFERENCE
ECGS_201118_5.5_v1

SHEET NUMBER
1 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



0 25 50 km

Scale @ A3 1:500,000

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Coordinate System: WGS 1984 Zone 30N

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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Lincolnshire Sub-region
- Existing Overhead Line
- Potential Onshore Network Extension OHL
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Area of Outstanding Natural Beauty
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

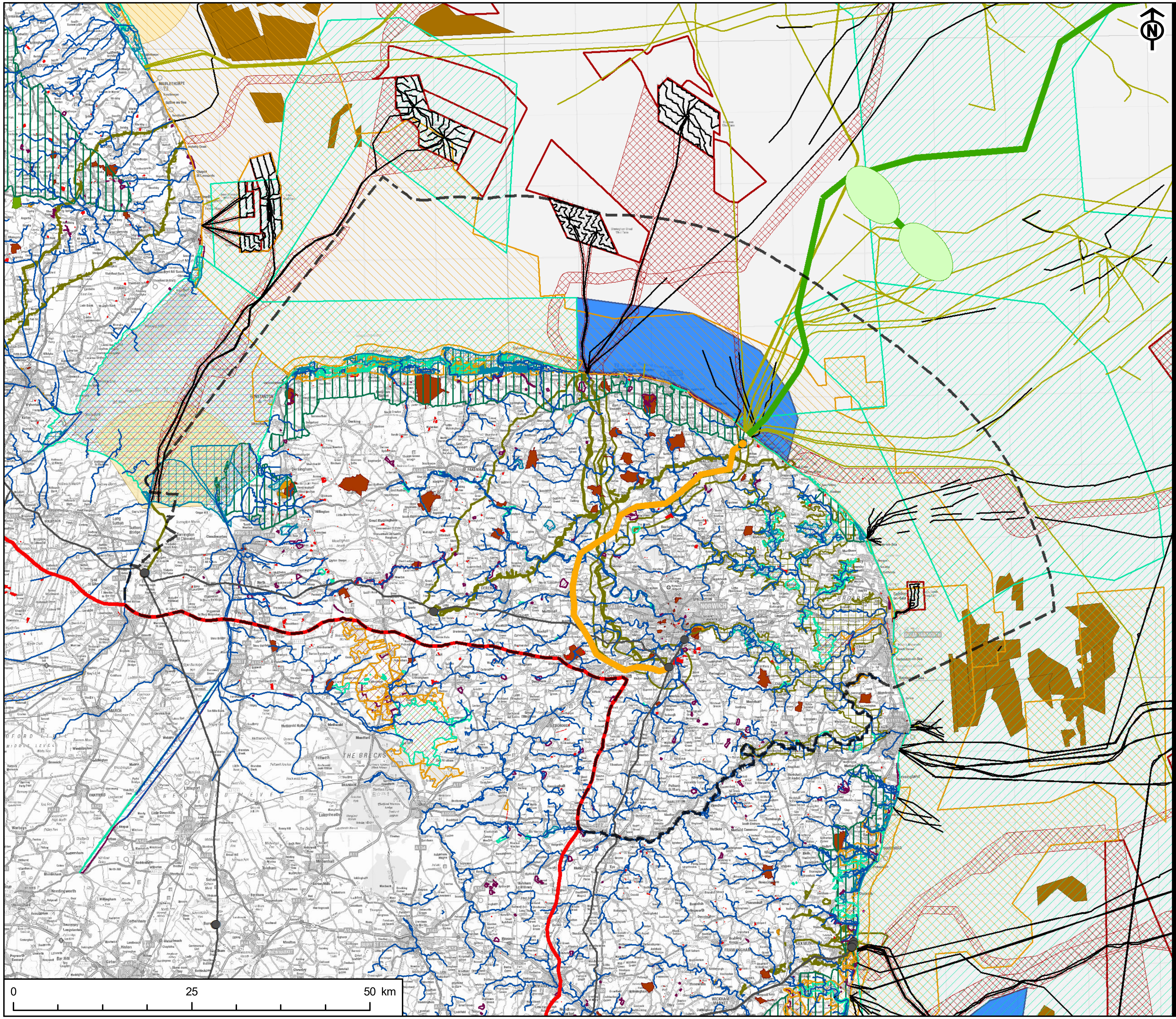
TITLE
FIGURE B25
SCENARIO E CONSTRAINTS
LINCOLNSHIRE SUB-REGION

REFERENCE
ECGS_201118_5.5_v1

SHEET NUMBER
2 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



Scale @ A3 1:500,000

AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Norfolk Sub-region
- Potential Landfall Area
- Existing Substation Location
- Potential Network Extension Substation Location
- Existing Overhead Line
- Potential Onshore Network Extension OHL
- Potential Offshore Export Cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

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TITLE
FIGURE B25
SCENARIO E CONSTRAINTS
NORFOLK SUB-REGION

REFERENCE
ECGS_201118_5.5_v1

SHEET NUMBER
3 of 5

DATE
18/11/2020

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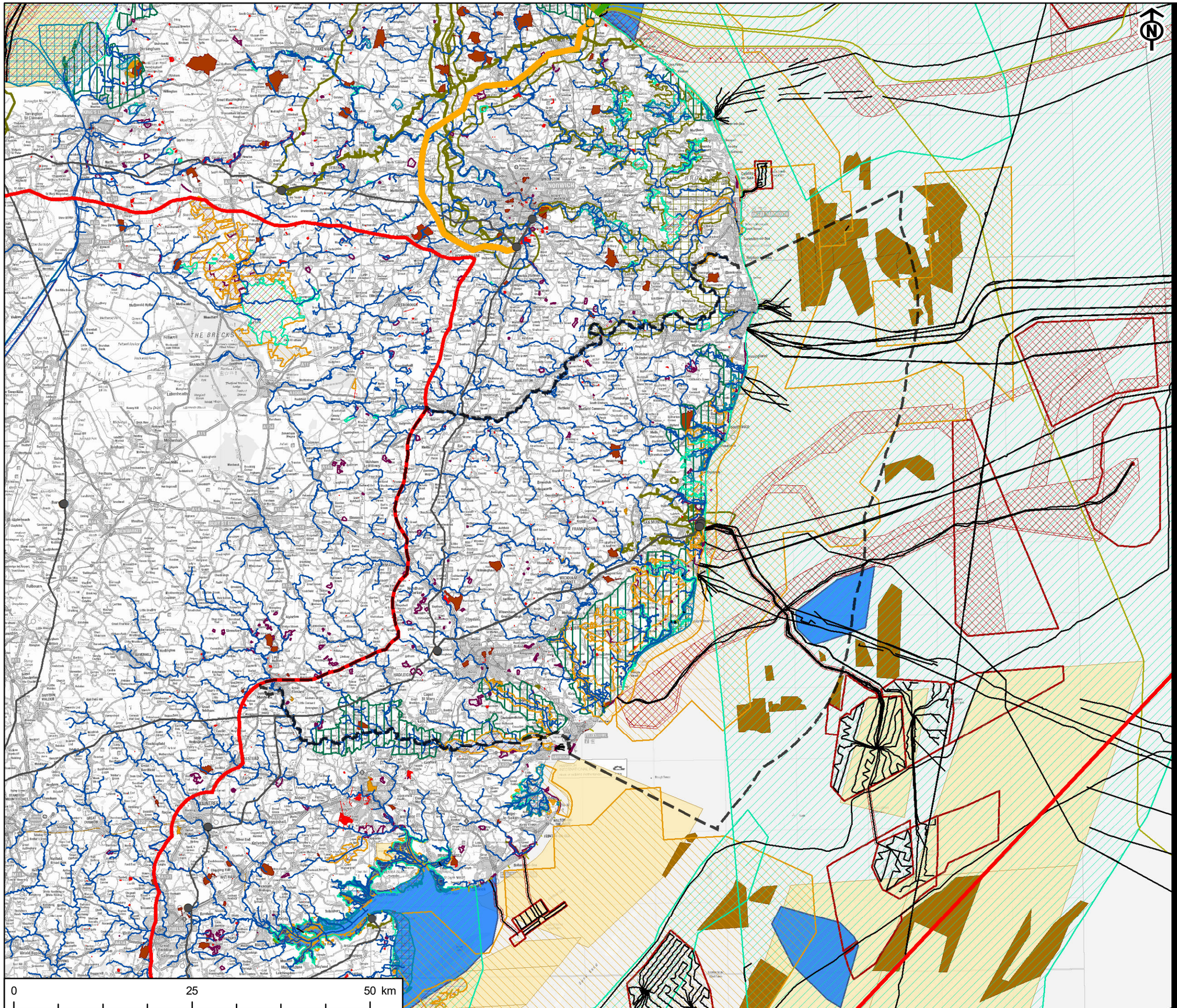
Coordinate System: WGS 1984 Zone 30N

Project Management Initials: DR Designer: LC Checked: FF Approved: DR



Scale @ A3 1:500,000

AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Suffolk Sub-region
- Potential Landfall Area
- Existing Substation Location
- Potential Network Extension Substation Location
- Existing Overhead Line
- Potential Onshore Network Extension OHL
- Potential Offshore Export Cable
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

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TITLE
FIGURE B25
SCENARIO E CONSTRAINTS
SUFFOLK SUB-REGION

REFERENCE
ECGS_201118_5.5_v1

SHEET NUMBER
4 of 5

DATE
18/11/2020

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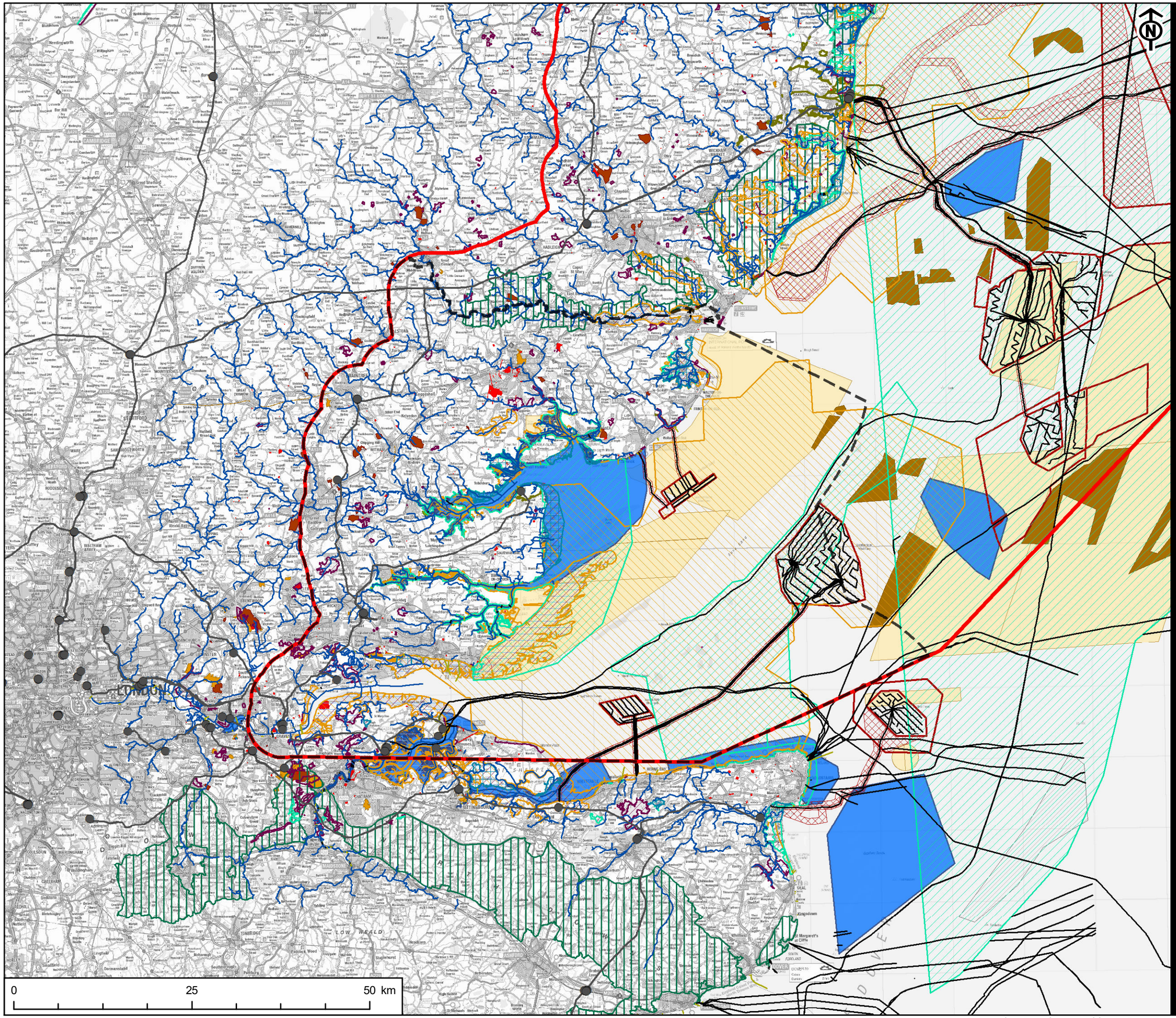

Scale @ A3 1:500,000

0 25 50 km

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Essex Sub-region
- Existing Overhead Line
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

TITLE
FIGURE B25
SCENARIO E CONSTRAINTS
ESSEX SUB-REGION

REFERENCE
ECGS_201118_5.5_v1

SHEET NUMBER
5 of 5

DATE
18/11/2020

Project Management Initials: DR Designer: LC Checked: FF Approved: DR

Scale @ A3 1:1,200,000

0 50 100 km

AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Potential Landfall Area
- Existing Substation Location
- Planned Substation Location
- Potential Network Extension Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Planned Onshore OHL
- Potential Onshore Network Extension OHL
- Potential Offshore Export Cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Carbon Capture and Storage Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

TITLE
FIGURE B26
SCENARIO F
CONSTRAINTS OVERVIEW

REFERENCE
ECGS_201118_5.6_v1

SHEET NUMBER 1 of 5

DATE 18/11/2020

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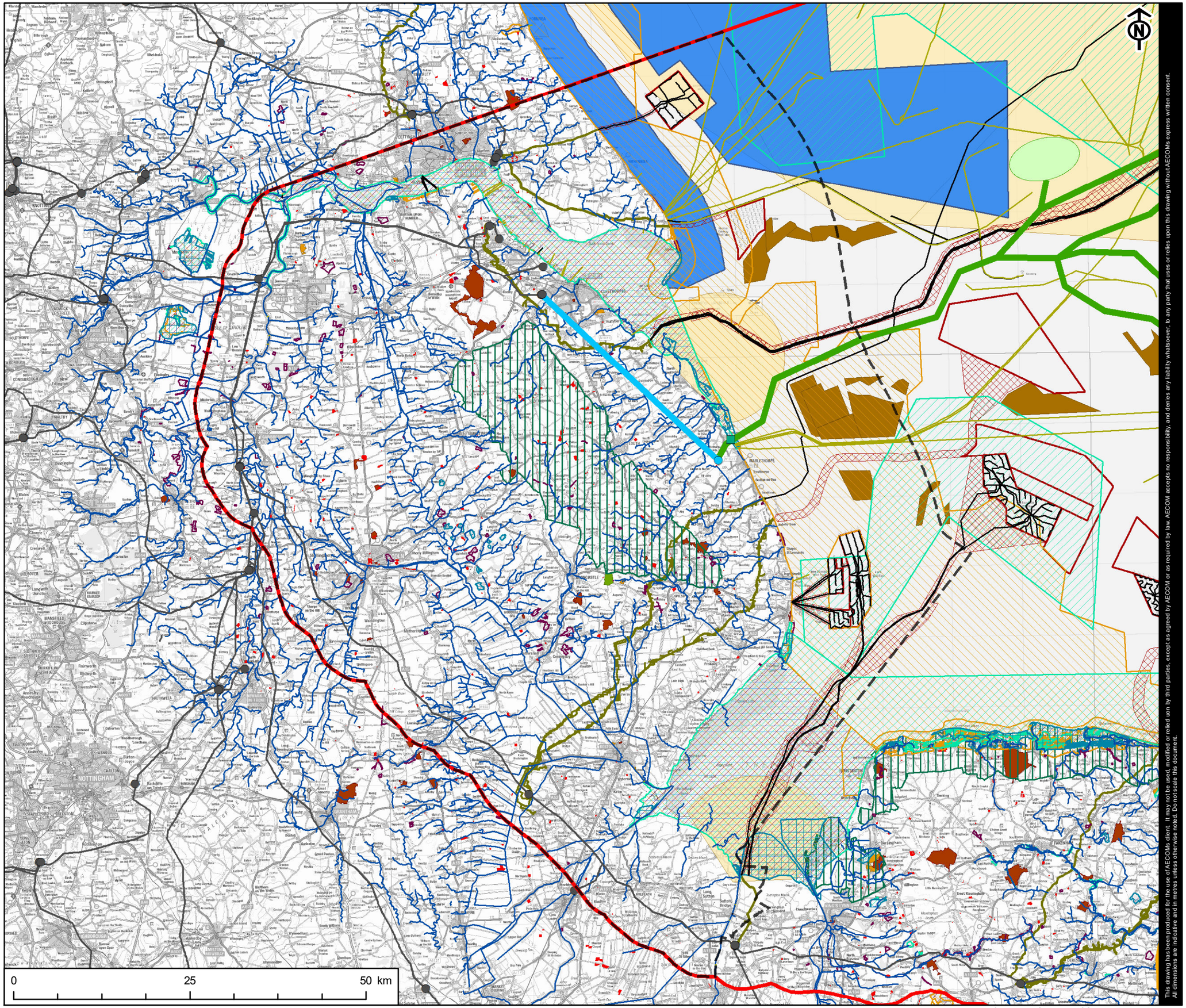

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Lincolnshire Sub-region
- Potential Landfall Area
- Existing Substation Location
- Planned Substation Location
- Existing Overhead Line
- Planned Onshore OHL
- Potential Onshore Network Extension OHL
- Potential Offshore Export Cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Area of Outstanding Natural Beauty
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

TITLE
FIGURE B26
SCENARIO F CONSTRAINTS
LINCOLNSHIRE SUB-REGION

REFERENCE
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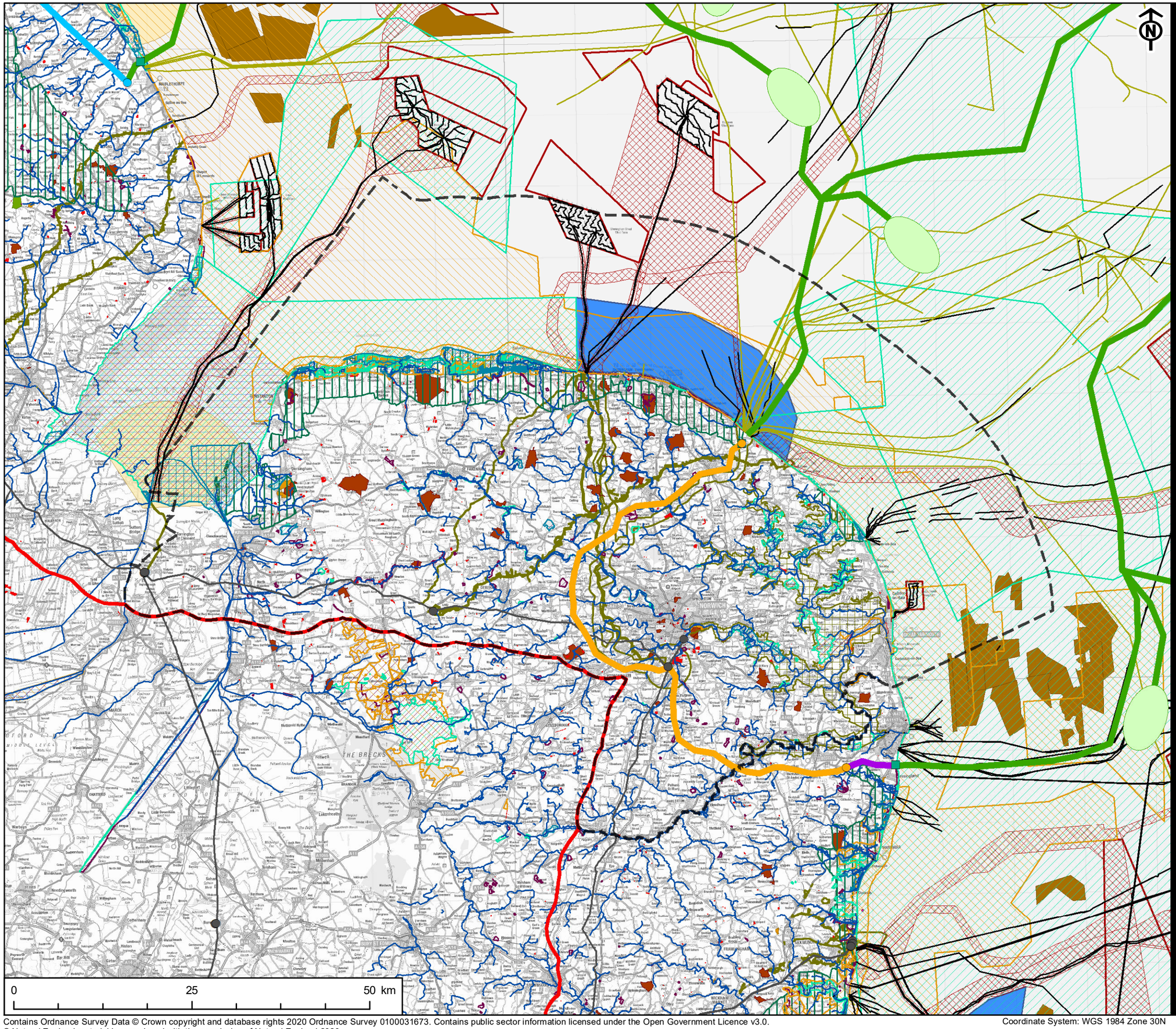

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Norfolk Sub-region
- Potential Landfall Area
- Existing Substation Location
- Planned Substation Location
- Potential Network Extension Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Planned Onshore OHL
- Potential Onshore Network Extension OHL
- Potential Offshore Export Cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
- Protected Wreck
- Area of Outstanding Natural Beauty
- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

TITLE
FIGURE B26
SCENARIO F CONSTRAINTS
NORFOLK SUB-REGION

REFERENCE
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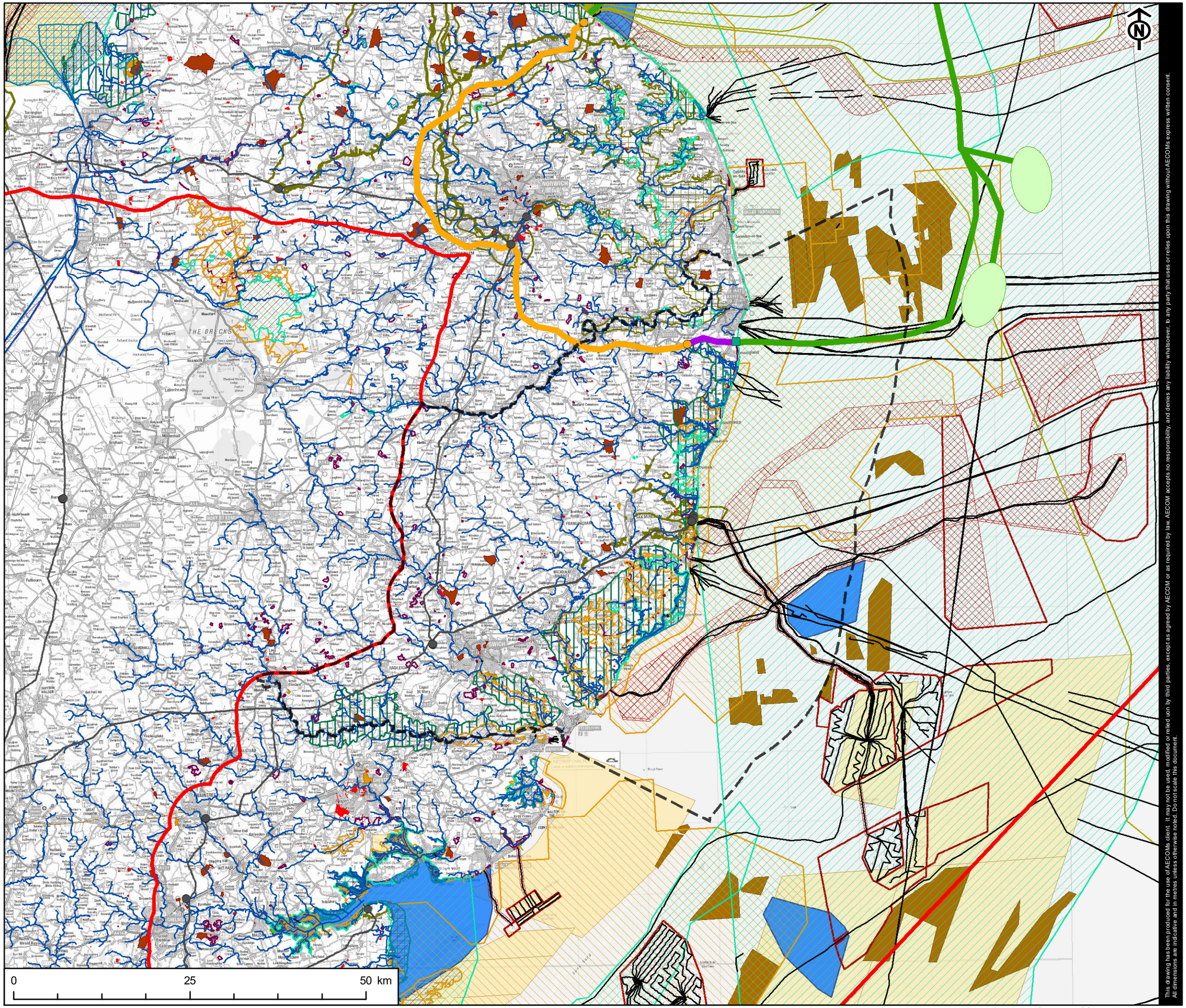

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AECOM

PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Suffolk Sub-region
- Potential Landfall Area
- Existing Substation Location
- Potential Network Extension Substation Location
- Existing Overhead Line
- Potential Onshore Export Cable
- Potential Onshore Network Extension OHL
- Potential Offshore Export Cable
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
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- National Park
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

TITLE
FIGURE B26
SCENARIO F CONSTRAINTS
SUFFOLK SUB-REGION

REFERENCE
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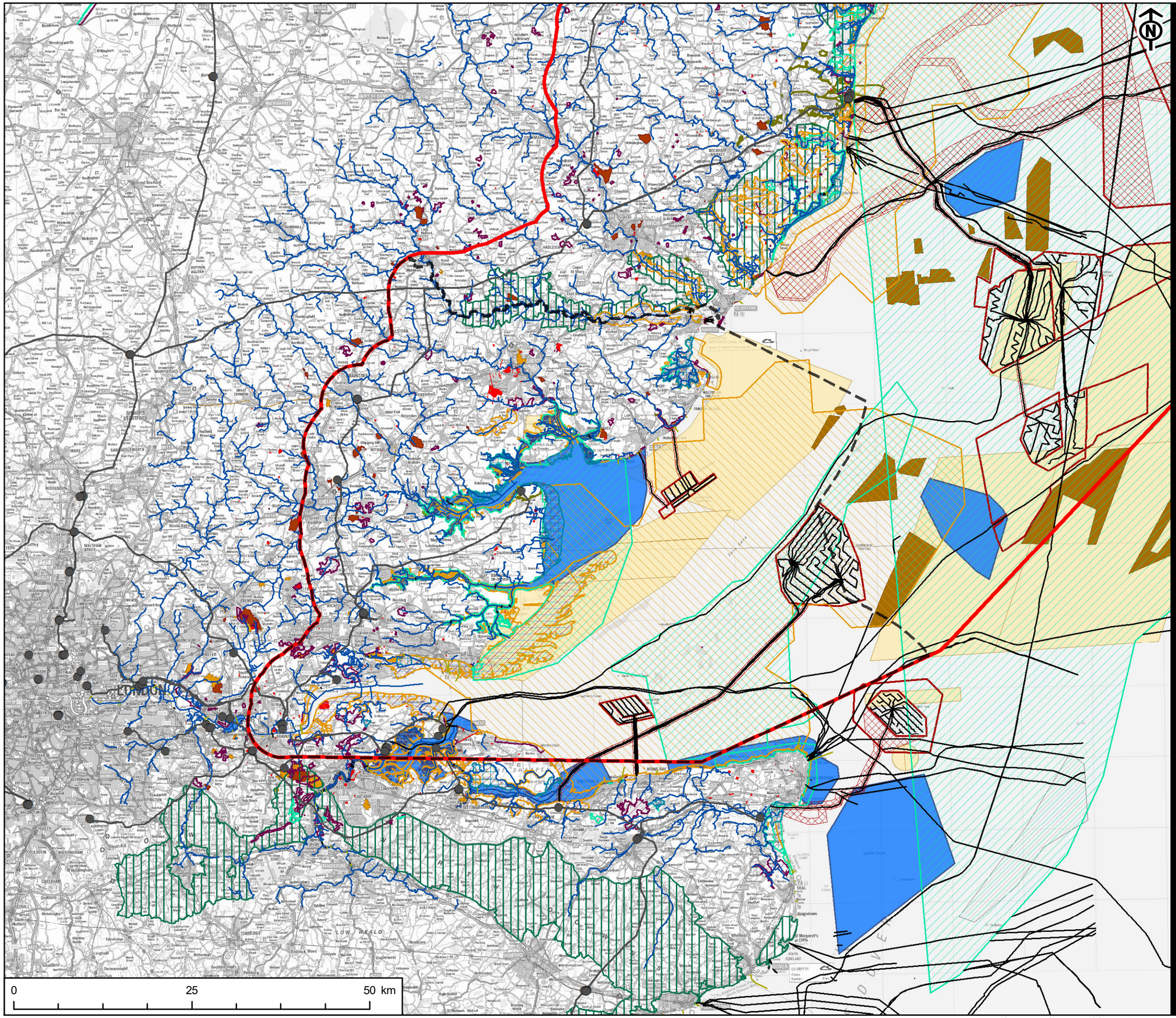

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0 25 50 km

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PROJECT
EAST COAST GRID STUDY

CLIENT
THE CROWN ESTATE

KEY

- Study Area
- Essex Sub-region
- Existing Overhead Line
- Conceptual Offshore Wind Project
- Cable
- Pipeline
- Main River
- National Nature Reserve
- Special Area of Conservation
- Special Protection Area
- Site of Special Scientific Interest
- Ramsar Site
- Marine Conservation Zone
- Scheduled Monument
- Registered Battlefield
- Registered Park and Garden
- Heritage Coast
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- Area of Outstanding Natural Beauty
- Country Park
- Military Practice Area
- Marine Aggregates Site
- Traffic Separation & Deep Water Channel
- Onshore Major Infrastructure
- Offshore Wind Site
- Offshore Wind Cable Agreement

TITLE
FIGURE B26
SCENARIO F CONSTRAINTS
ESSEX SUB-REGION

REFERENCE
ECGS_201118_5.6_v1

SHEET NUMBER
5 of 5

DATE
18/11/2020

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