NORTH FALLS

Offshore Wind Farm

ENVIRONMENTAL STATEMENT

Chapter 29 Figures (Part 1 of 6)

Document Reference:	3.2.25
Volume:	3.2
APFP Regulation:	5(2)(a)
Date:	July 2024
Revision:	0

Project Reference: EN010119

NORTH FALLS
Offshore Wind Farm

Project	North Falls Offshore Wind Farm
Document Title	Environmental Statement Chapter 29 Figures
Document Reference	3.2.25
APFP Regulation	5(2)(a)
Supplier	Royal HaskoningDHV
Supplier Document ID	PB9244-RHD-ES-OF-RP-OF-0213

Revision	Date	Status/Reason for Issue	Originator	Checked	Approved
0	July 2024	Submission	RHDHV	NFOW	NFOW

600000
650000
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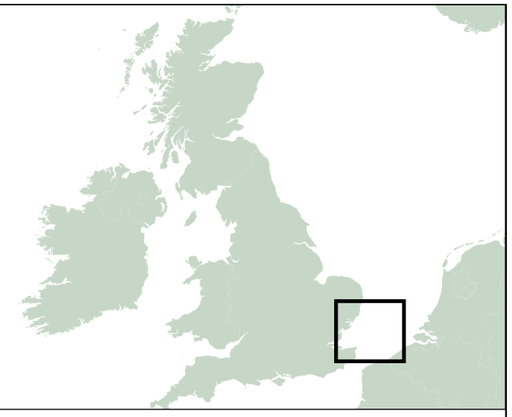
200000
150000

N

Breckland District
South Norfolk District
West Suffolk District
Mid Suffolk District
East Suffolk District
Ipswich District
Babergh District
Braintree District
Colchester District
Tendring District
Maldon District
Rochford District
Southend-on-Sea
Medway
Thanet District
Swale
Canterbury
Maidstone
Dover
Ashford District
Folkestone and Hythe

10km
20km
30km
40km
50km
60km



Legend

- North Falls Array Area
- Turbine (indicative layout)
- Turbine buffers - 10km intervals
- Local Authority Boundary

0 5 10 20 nm

0 5 10 20 km

Data Source: OS, LUC, RHDHV

Drawing Title

Seascape, Landscape and Visual Impact Assessment Study Area

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	RW	JN

Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0001	29.1.1

Scale	Plot Size	Datum	Projection
1:550,000	A3	OSGB36	BNG

LUC

NORTH FALLS
Offshore Wind Farm

File ref: S:\11300\11328 - North Falls Offshore Wind Farm SLVIA\GIS\PRO\Report\11328_SLVIA\11328_SLVIA.aprx

600000
650000
700000
750000
250000
200000
150000

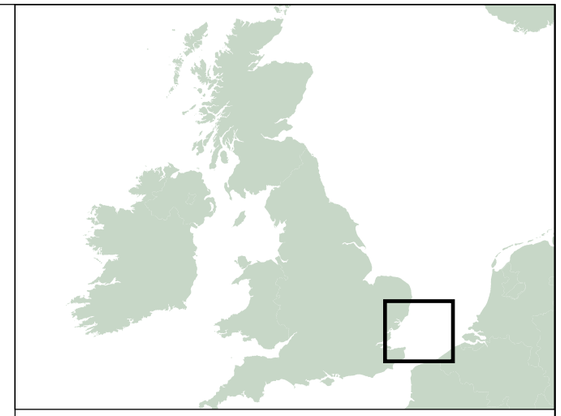
N

Breckland District
South Norfolk District
West Suffolk District
Mid Suffolk District
East Suffolk District
Ipswich District
Babergh District
Braintree District
Colchester District
Tendring District
Maldon District
Rochford District
Southend-on-Sea
Medway
Swale
Thanet District
Canterbury
Dover
Maidstone
Ashford District
Folkestone and Hythe

VP1
VP2
VP3
VP4
VP17
VP5
VP6
VP7
VP8
VP9
VP10
VP11
VP12
VP13
VP14
VP15
VP16

10km
20km
30km
40km
50km
60km

DOVER



Legend

- North Falls Array Area
- Turbine (indicative layout)
- Turbine buffers - 10km intervals
- Local Authority Boundary
- King Charles III England Coast Path
- Suffolk Coastal Path

Bareground ZTV to Tip (381.39m)

- 1 - 10 Turbines Visible
- 11 - 20 Turbines Visible
- 21 - 30 Turbines Visible
- 31 - 34 Turbines Visible
- Viewpoint

1: Covehithe
2: Southwold Pier
3: Dunwich Coastguard Cottages
4: Sizewell Beach
5: Cliffs above Thorpeness
6: Aldeburgh
7: Orford Castle
8: Orford Ness
9: Shingle Street
10: Pulhamite Cliffs (Bawdsey Manor)
11: Felixstowe Seafront Gardens
12: Landguard Fort
13: Naze Tower
14: Frinton on Sea
15: Clacton on Sea
16: North Foreland
17: Coastal Path between Thorpeness and Sizewell (wireline only)

0 5 10 20 nm
0 5 10 20 km

Data Source: OS, LUC, RHDHV

Drawing Title

Blade Tip Height Zone of Theoretical Visibility and Viewpoint Locations

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

Notes
The ZTV is calculated to turbine tip height (381.39m above Ordnance Datum) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2022).

The ZTV has been run to maximum theoretical visible extent to limits based on earth curvature. Atmospheric refraction has also been taken into account. The ZTV was calculated using ArcGIS Pro 3.1.0 software.

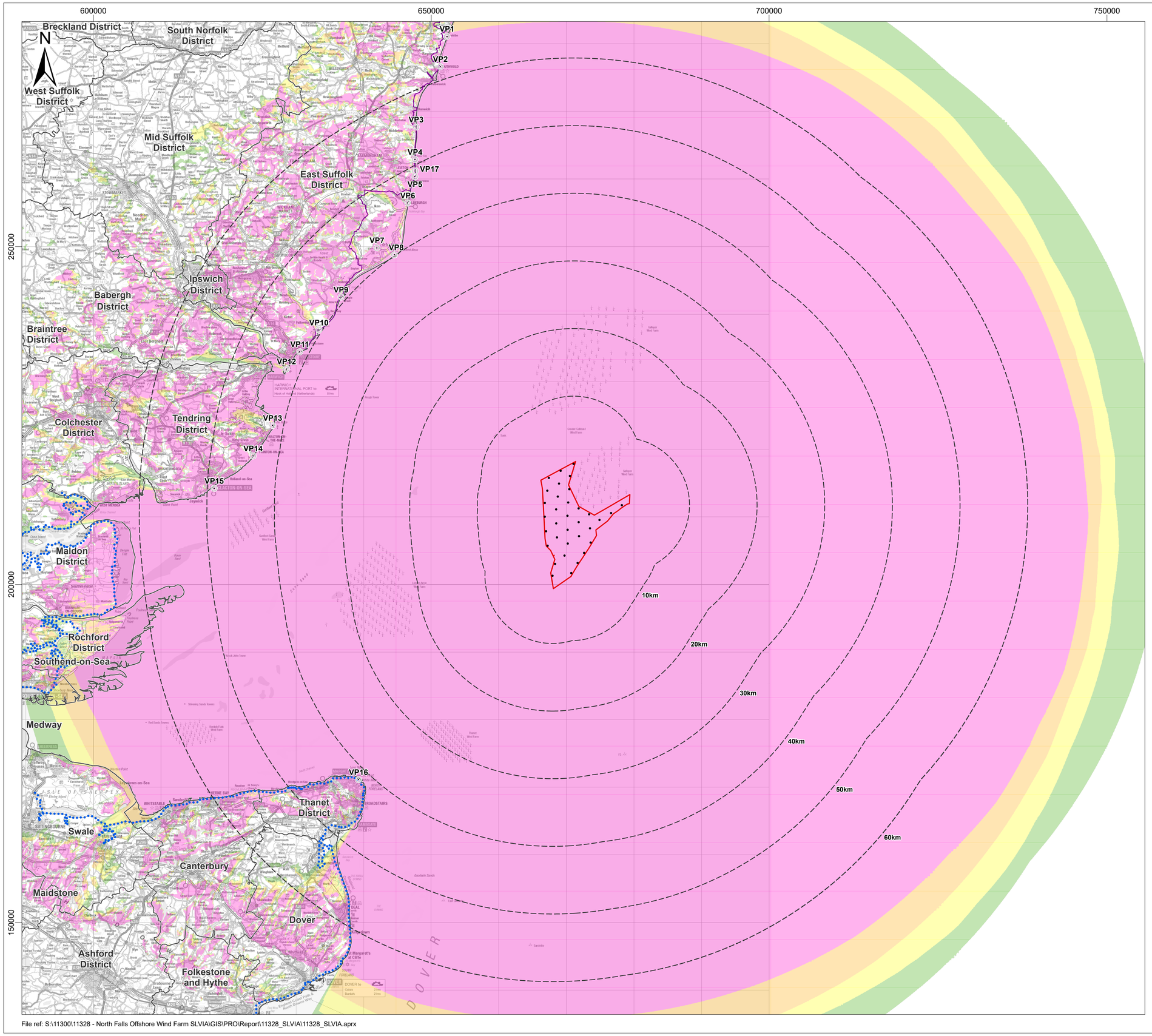
Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0002	29.1.2a

Scale	Plot Size	Datum	Projection
1:550,000	A3	OSGB36	BNG

LUC

NORTH FALLS
Offshore Wind Farm

File ref: S:\11300\11328 - North Falls Offshore Wind Farm SLVIA\GIS\PRO\Report\11328_SLVIA\11328_SLVIA.aprx



Legend

- North Falls Array Areas
- Indicative Turbine Location
- Turbine Buffers - 10km Intervals
- Local Authority Boundary
- King Charles III England Coast Path
- Suffolk Coastal Path

Bareground ZTV to Tip (381.39m)

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- 11 - 20 Turbines Visible
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Notes

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0 5 10 20 nm

0 5 10 20 km

Data Source: OS, LUC, RHDHV

Drawing Title

Blade Tip Height Zone of Theoretical Visibility and Viewpoint Locations

Rev	Date	Remarks	Drwn	Chkd
03	12/12/2022	Third issue	RW	JN
02	14/11/2022	Second issue	RW	JN
01	28/09/2022	First issue	RW	JN

Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0003	29.1.2b

Scale	Plot Size	Datum	Projection
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LUC

NORTH FALLS
Offshore Wind Farm

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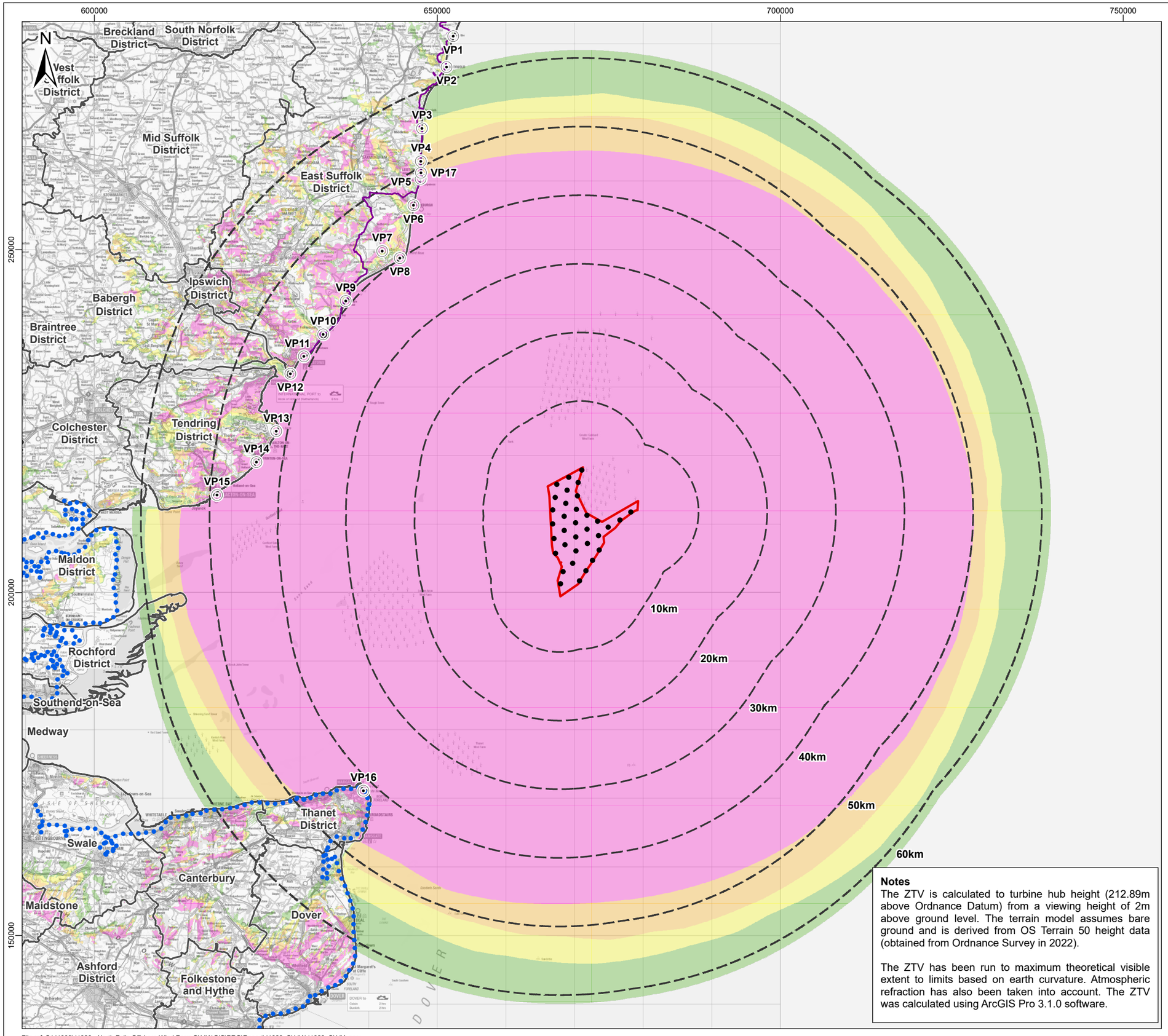

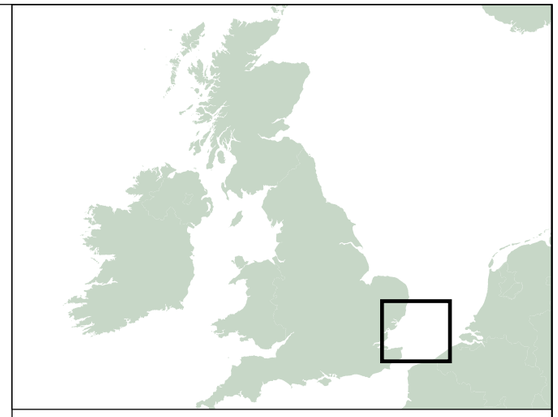

Legend

- North Falls Array Area
- Turbine (indicative layout)
- Turbine buffers - 10km intervals
- Local Authority Boundary
- King Charles III England Coast Path
- Suffolk Coastal Path

Bareground ZTV to Hub (212.89m)

- 1 - 10 Turbines Visible
- 11 - 20 Turbines Visible
- 21 - 30 Turbines Visible
- 31 - 34 Turbines Visible
- Viewpoint

1: Covehithe
2: Southwold Pier
3: Dunwich Coastguard Cottages
4: Sizewell Beach
5: Cliffs above Thorpeness
6: Aldeburgh
7: Orford Castle
8: Orford Ness
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14: Frinton on Sea
15: Clacton on Sea
16: North Foreland
17: Coastal Path between Thorpeness and Sizewell (wireline only)

0 5 10 20 nm
0 5 10 20 km

Data Source: OS, LUC, RHDHV

Notes
The ZTV is calculated to turbine hub height (212.89m above Ordnance Datum) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2022).

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Drawing Title

Hub Height Zone of Theoretical Visibility and Viewpoint Locations

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0004	29.1.3a

Scale	Plot Size	Datum	Projection
1:550,000	A3	OSGB36	BNG

LUC

NORTH FALLS
Offshore Wind Farm

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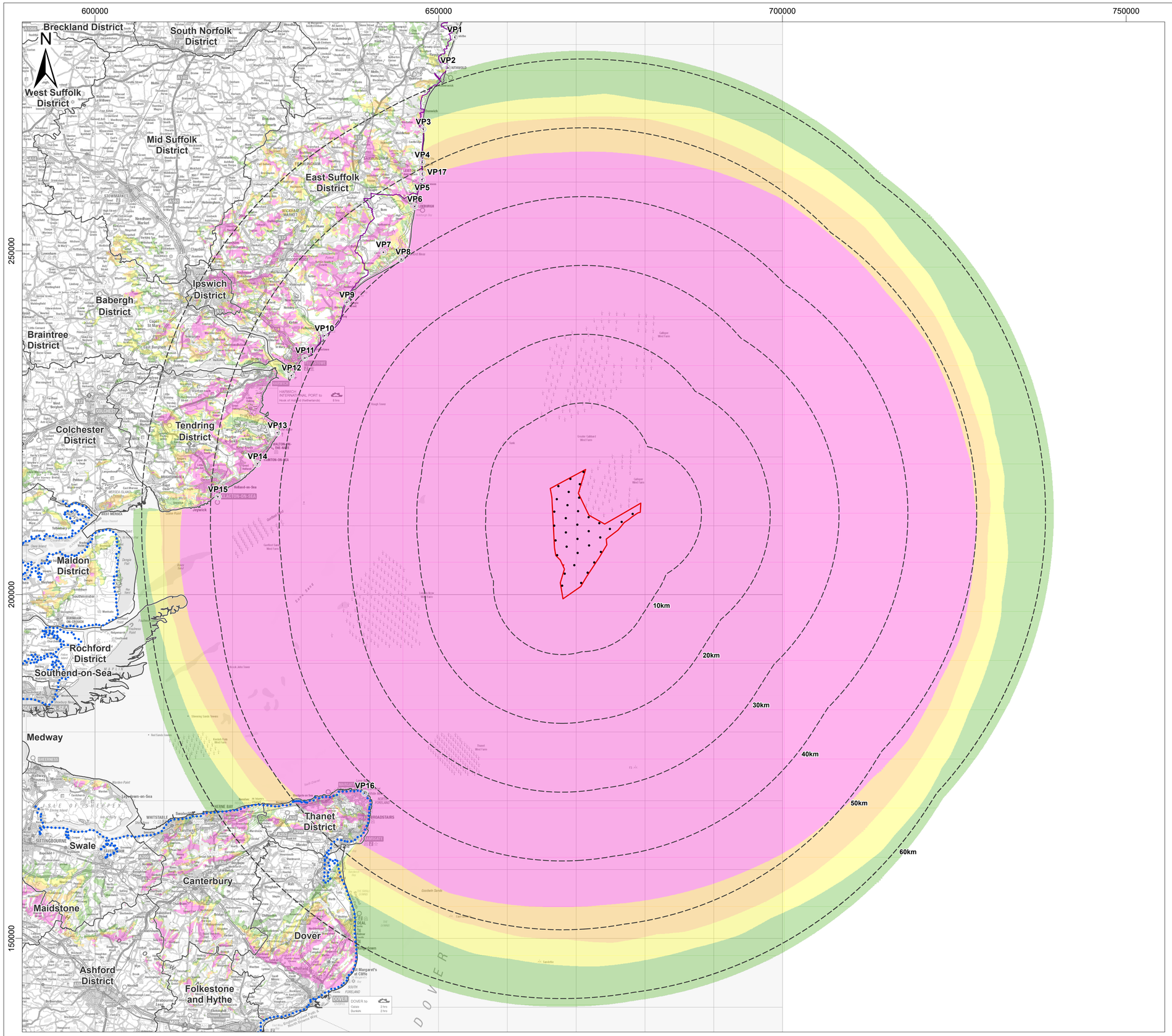

Legend

- North Falls Array Areas
- Indicative Turbine Location
- Turbine Buffers - 10km Intervals
- Local Authority Boundary
- King Charles III England Coast Path
- Suffolk Coastal Path

Bareground ZTV to Hub (212.89m)

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- 21 - 30 Turbines Visible
- 31 - 34 Turbines Visible
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Notes

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0 5 9 18 nm

0 5 10 20 km

Data Source: OS, LUC, RHDHV

Drawing Title

Hub Height Zone of Theoretical Visibility and Viewpoint Locations

Rev	Date	Remarks	Drwn	Chkd
03	12/12/2022	Third issue	RW	JN
02	14/11/2022	Second issue	RW	JN
01	28/09/2022	First issue	RW	JN

Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0005	29.1.3b

Scale	Plot Size	Datum	Projection
1:275,000	A1	OSGB36	BNG

LUC

NORTH FALLS
Offshore Wind Farm

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600000
650000
700000
750000
250000
200000
150000

N

Legend

Marine Character Areas

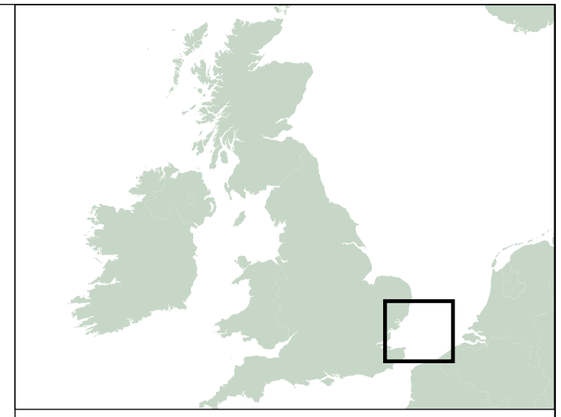
MCA 10: Dungeness, Hythe and East Wear Bays
MCA 11: Goodwin Sands and North Dover Strait
MCA 15: Eastern English Channel Approaches
MCA 16: Swale, Kentish Flats and Margate Sand
MCA 17: Thanet Shipping Waters
MCA 18: Thames and Medway Estuaries
MCA 19: Essex and South Suffolk Estuaries and Coastal Waters
MCA 20: Thames Approaches
SCA 04: East Anglian Shipping Waters
SCA 10: Suffolk Coastal Waters

SCA 10
SCA 04
MCA 19
MCA 20
MCA 18
MCA 17
MCA 16
MCA 11
MCA 15
MCA 10

10km
20km
30km
40km
50km
60km

82
83
86
82
111
81
111
81
81
113
119
120
121

DOVER STRAIT



Legend

North Falls Array Area
Turbine (indicative layout)
Turbine buffers - 10km intervals

National Character Areas

79: North East Norfolk and Flegg
80: The Broads
81: Greater Thames Estuary
82: Suffolk Coast and Heaths
83: South Norfolk and High Suffolk Claylands
84: Mid Norfolk
85: The Brecks
86: South Suffolk and North Essex Clayland
111: Northern Thames Basin
113: North Kent Plain
119: North Downs
120: Wealden Greensand
121: Low Weald

0 5 10 20 nm
0 5 10 20 km

Data Source: OS, LUC, RHDHV

Drawing Title

Seascape and Landscape (National) Character Types

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0006	29.1.4a

Scale	Plot Size	Datum	Projection
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LUC

NORTH FALLS
Offshore Wind Farm

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600000
650000
700000
750000
250000
200000
150000

N

Legend

Marine Character Areas

MCA 10: Dungeness, Hythe and East Wear Bays
MCA 11: Goodwin Sands and North Dover Strait
MCA 15: Eastern English Channel Approaches
MCA 16: Swale, Kentish Flats and Margate Sand
MCA 17: Thanet Shipping Waters
MCA 18: Thames and Medway Estuaries
MCA 19: Essex and South Suffolk Estuaries and Coastal Waters
MCA 20: Thames Approaches
SCA 04: East Anglian Shipping Waters
SCA 10: Suffolk Coastal Waters

SCA 10
SCA 04
MCA 19
MCA 20
MCA 18
MCA 17
MCA 16
MCA 11
MCA 15
MCA 10

10km
20km
30km
40km
50km
60km

82
83
86
82
111
81
81
111
81
113
119
120
121

Notes

The ZTV is calculated to turbine tip height (381.39m above Ordnance Datum) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2022).

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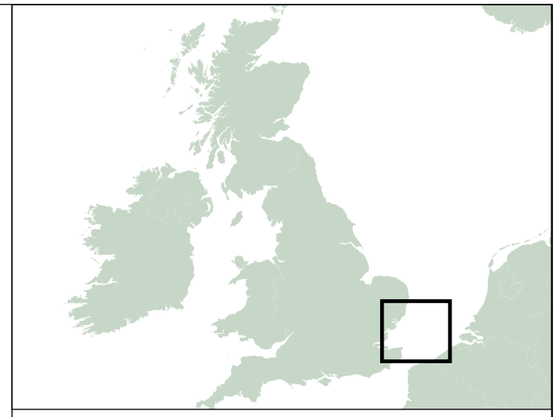

Legend

North Falls Array Area
Turbine (indicative layout)
Turbine buffers - 10km intervals

Bareground ZTV to Tip (381.39m)

1 - 10 Turbines Visible
11 - 20 Turbines Visible
21 - 30 Turbines Visible
31 - 34 Turbines Visible

National Character Areas

79: North East Norfolk and Flegg
80: The Broads
81: Greater Thames Estuary
82: Suffolk Coast and Heaths
83: South Norfolk and High Suffolk Claylands
84: Mid Norfolk
85: The Brecks
86: South Suffolk and North Essex Clayland
111: Northern Thames Basin
113: North Kent Plain
119: North Downs
120: Wealden Greensand
121: Low Weald

0 5 10 20 nm
0 5 10 20 km

Data Source: OS, LUC, RHDHV

Drawing Title

Seascape and Landscape (National) Character Types with Blade Tip Height Zone of Theoretical Visibility

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0007	29.1.4b

Scale	Plot Size	Datum	Projection
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LUC

NORTH FALLS
Offshore Wind Farm

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600000
650000
700000
750000
250000
200000
150000

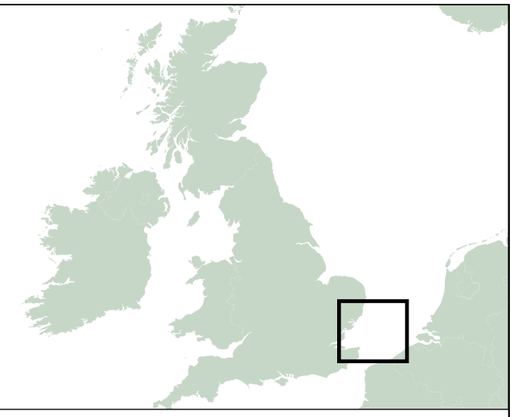
N

29.1.5a2

29.1.5a3

29.1.5a4

10km
20km
30km
40km
50km
60km



Legend

- North Falls Array Area
- Turbine (indicative layout)
- Turbine buffers - 10km intervals
- Suffolk Landscape Character Assessment
- Tendring Landscape Character Assessment
- Thanet Landscape Character Assessment

0 5 10 20 nm

0 5 10 20 km

Data Source: OS, LUC, RHDHV

Drawing Title

Landscape Character Types (District and County)

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

Drawing Number: **PB9244-LUC-ZZ-OF-DR-GS-0008**

Figure Number: **29.1.5a1**

Scale	Plot Size	Datum	Projection
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LUC

NORTH FALLS
Offshore Wind Farm

File ref: S:\11300\11328 - North Falls Offshore Wind Farm SLVIA\GIS\PRO\Report\11328_SLVIA\11328_SLVIA.aprx

610000 620000 630000 640000 650000

260000 250000 240000 230000

N

Legend

Turbine buffers - 10km intervals

Suffolk Landscape Character Types (Feb 2019)

- 1: Ancient Estate Claylands
- 2: Ancient Estate Farmlands
- 3: Ancient Plateau Claylands
- 4: Ancient Rolling Farmlands
- 5: Coastal Dunes and Shingle Ridges
- 6: Coastal Levels
- 7: Estate Sandlands
- 10: Plateau Claylands
- 11: Plateau Estate Farmlands
- 12: Plateau Farmlands
- 14: Rolling Estate Claylands
- 15: Rolling Estate Farmlands
- 16: Rolling Estate Sandlands
- 17: Rolling Valley Claylands
- 18: Rolling Valley Farmlands
- 19: Rolling Valley Farmlands and Furze
- 20: Saltmarsh and Intertidal Flats
- 25: Urban
- 26: Valley Meadowlands
- 27: Valley Meadows and Fens
- 30: Wooded Valley Meadowlands
- 31: Wooded Valley Meadowlands and Fens

0 1 2 4 nm

0 1 2 4 km

Data Source: OS, LUC, RHDHV

Drawing Title

Landscape Character Types (District and County)

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0009	29.1.5a2

Scale	Plot Size	Datum	Projection
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LUC

NORTH FALLS Offshore Wind Farm

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600000 610000 620000 630000

230000

220000

210000

N

HARWICH INTERNATIONAL PORT to Hook of Holland (Netherlands)

60km 50km 40km

Legend

Turbine buffers - 10km intervals

Tendring Landscape Character Areas

- 1: Open Estuarine / Coastal Marsh
- 2: Drained Estuarine / Coastal Marsh
- 3: Coastal Slopes
- 4: Coastal Ridges and Peninsulas
- 5: River Floodplains
- 6: Clay Valleys
- 7: Heathland Plateaux
- 8: Clay Plateaux

0 1 2 4 nm

0 1 2 4 km

Data Source: OS, LUC, RHDHV

Drawing Title

Landscape Character Types (District and County)

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0010	29.1.5a3

Scale	Plot Size	Datum	Projection
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LUC

NORTH FALLS Offshore Wind Farm

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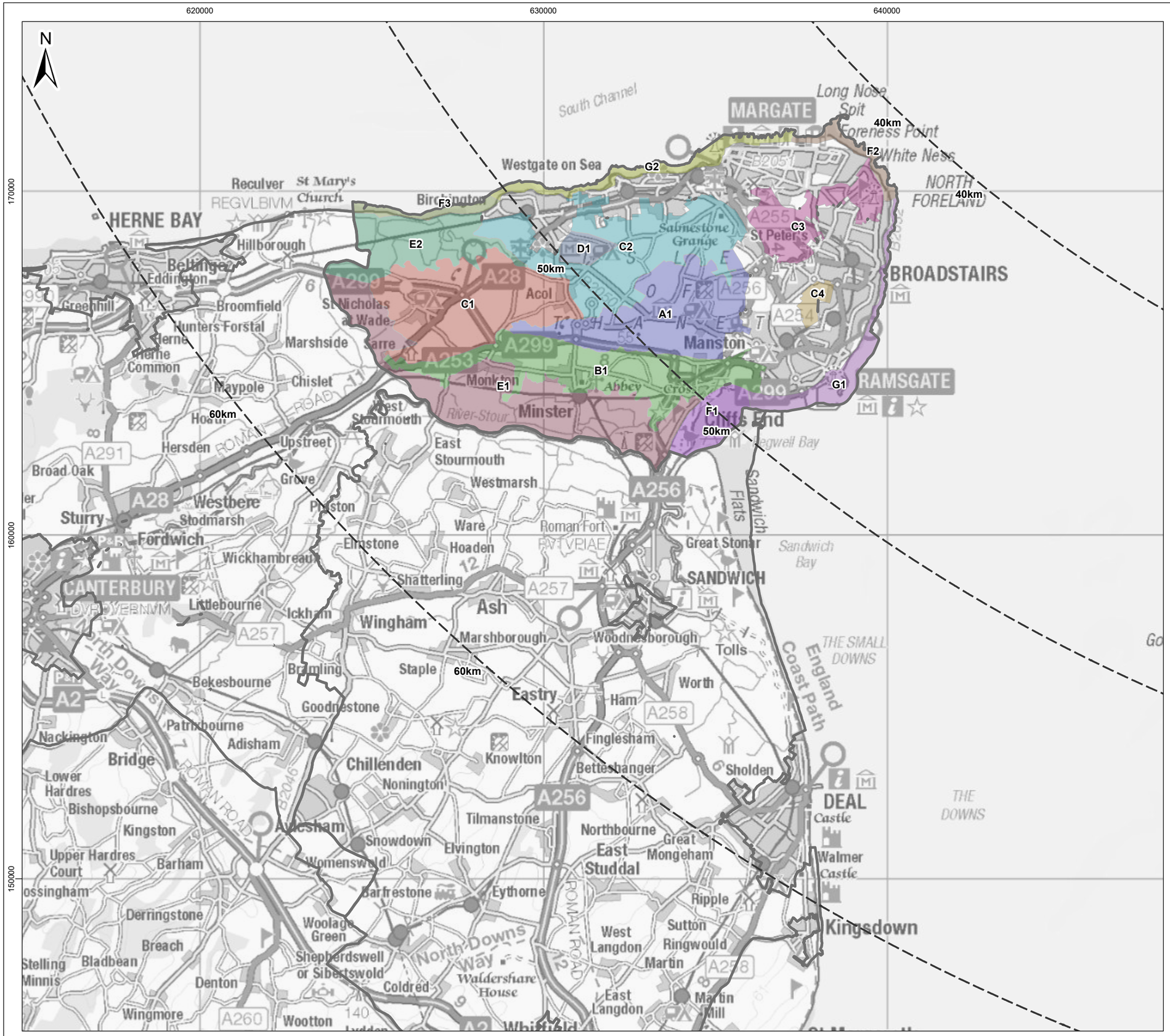

Legend

Turbine buffers - 10km intervals

Thanet Landscape Character Areas (2016)

- A1: Manston Chalk Plateau
- B1: Wantsum North Slopes
- C1: St Nicholas at Wade Undulating Chalk Farmland
- C2: Central Thanet Undulating Chalk Farmland
- C3: St Peters Undulating Chalk Farmland
- C4: Newlands Farm
- D1: Quex Park
- E1: Stour Marshes
- E2: Wade Marshes
- F1: Pegwell Bay
- F2: Foreness Point and North Foreland
- F3: Minnis Bay
- G1: Ramsgate and Broadstairs Cliffs
- G2: North Thanet Coast

0 1 2 4 nm

0 1 2 4 km

Data Source: OS, LUC, RHDHV

Drawing Title

Landscape Character Types (District and County)

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0011	29.1.5a4

Scale	Plot Size	Datum	Projection
1:110,000	A3	OSGB36	BNG

LUC

NORTH FALLS Offshore Wind Farm

File ref: S:\11300\11328 - North Falls Offshore Wind Farm SLVIA\GIS\PRO\Report\11328_SLVIA\11328_SLVIA.aprx

600000
650000
700000
750000
250000
200000
150000
N
29.1.5a2
29.1.5a3
29.1.5a4
10km
20km
30km
40km
50km
60km

Legend

- North Falls Array Area
- Turbine (indicative layout)
- Turbine buffers - 10km intervals
- Suffolk Landscape Character Assessment
- Tendring Landscape Character Assessment
- Thanet Landscape Character Assessment

Bareground ZTV to Tip (381.39m)

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- 11 - 20 Turbines Visible
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- 31 - 34 Turbines Visible

0 5 10 20 nm

0 5 10 20 km

Data Source: OS, LUC, RHDHV

Notes

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Drawing Title

Landscape Character Types (District and County) with Blade Tip Height Zone of Theoretical Visibility

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0012	29.1.5b1

Scale	Plot Size	Datum	Projection
1:550,000	A3	OSGB36	BNG

LUC

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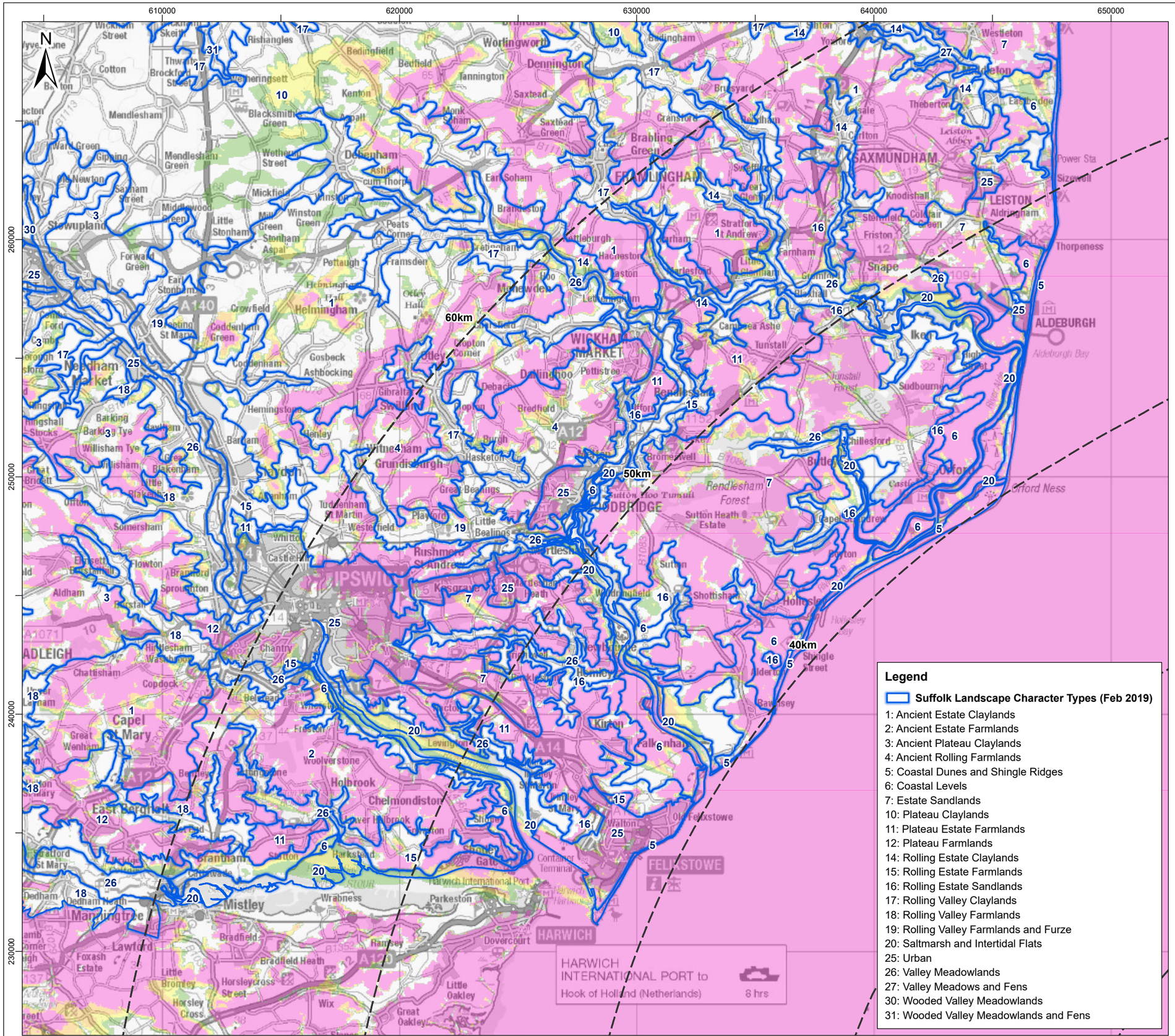
Offshore Wind Farm

File ref: S:\11300\11328 - North Falls Offshore Wind Farm SLVIA\GIS\PRO\Report\11328_SLVIA\11328_SLVIA.aprx



Legend

Turbine buffers - 10km intervals

Bareground ZTV to Tip (381.39m)

- 1 - 10 Turbines Visible
- 11 - 20 Turbines Visible
- 21 - 30 Turbines Visible
- 31 - 34 Turbines Visible

Notes

The ZTV is calculated to turbine tip height (381.39m above Ordnance Datum) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2022).

The ZTV has been run to maximum theoretical visible extent to limits based on earth curvature. Atmospheric refraction has also been taken into account. The ZTV was calculated using ArcGIS Pro 3.1.0 software.

0 1 2 4 nm

0 1 2 4 km

Data Source: OS, LUC, RHDHV

Drawing Title

Landscape Character Types (District and County) with Blade Tip Height Zone of Theoretical Visibility

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

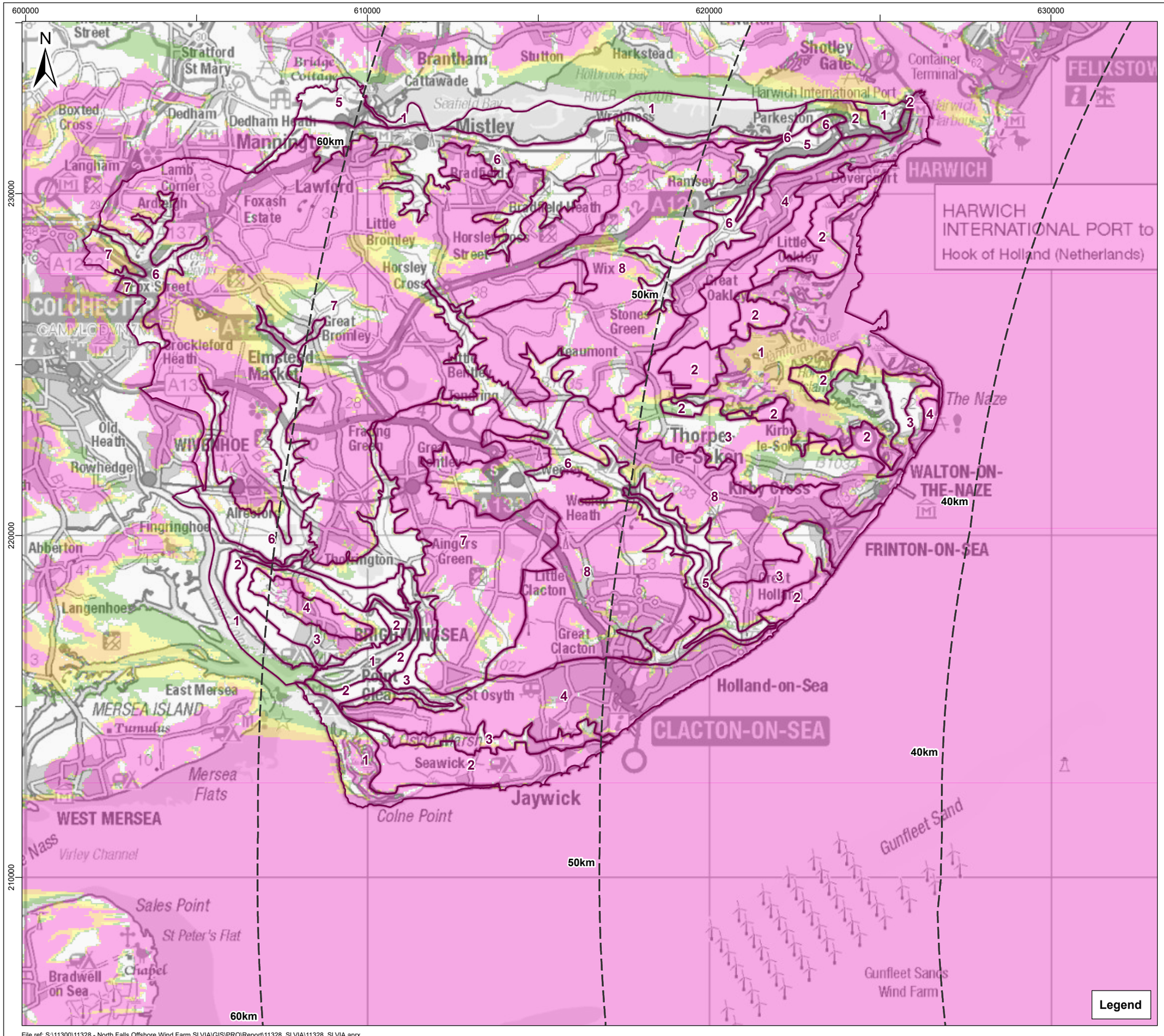
Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0009	29.1.5a2

Scale	Plot Size	Datum	Projection
1:160,000	A3	OSGB36	BNG

LUC

NORTH FALLS
Offshore Wind Farm

File ref: S:\11300\11328 - North Falls Offshore Wind Farm SLVIA\GIS\PRO\Report\11328_SLVIA\11328_SLVIA.aprx



Legend

Turbine buffers - 10km intervals

Bareground ZTV to Tip (381.39m)

- 1 - 10 Turbines Visible
- 11 - 20 Turbines Visible
- 21 - 30 Turbines Visible
- 31 - 34 Turbines Visible

Tendring Landscape Character Areas

1: Open Estuarine / Coastal Marsh
2: Drained Estuarine / Coastal Marsh
3: Coastal Slopes
4: Coastal Ridges and Peninsulas
5: River Floodplains
6: Clay Valleys
7: Heathland Plateaux
8: Clay Plateaux

Notes

The ZTV is calculated to turbine tip height (381.39m above Ordnance Datum) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2022).

The ZTV has been run to maximum theoretical visible extent to limits based on earth curvature. Atmospheric refraction has also been taken into account. The ZTV was calculated using ArcGIS Pro 3.1.0 software.

0 1 2 4 nm

0 1 2 4 km

Data Source: OS, LUC, RHDHV

Drawing Title

Landscape Character Types (District and County) with Blade Tip Height Zone of Theoretical Visibility

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

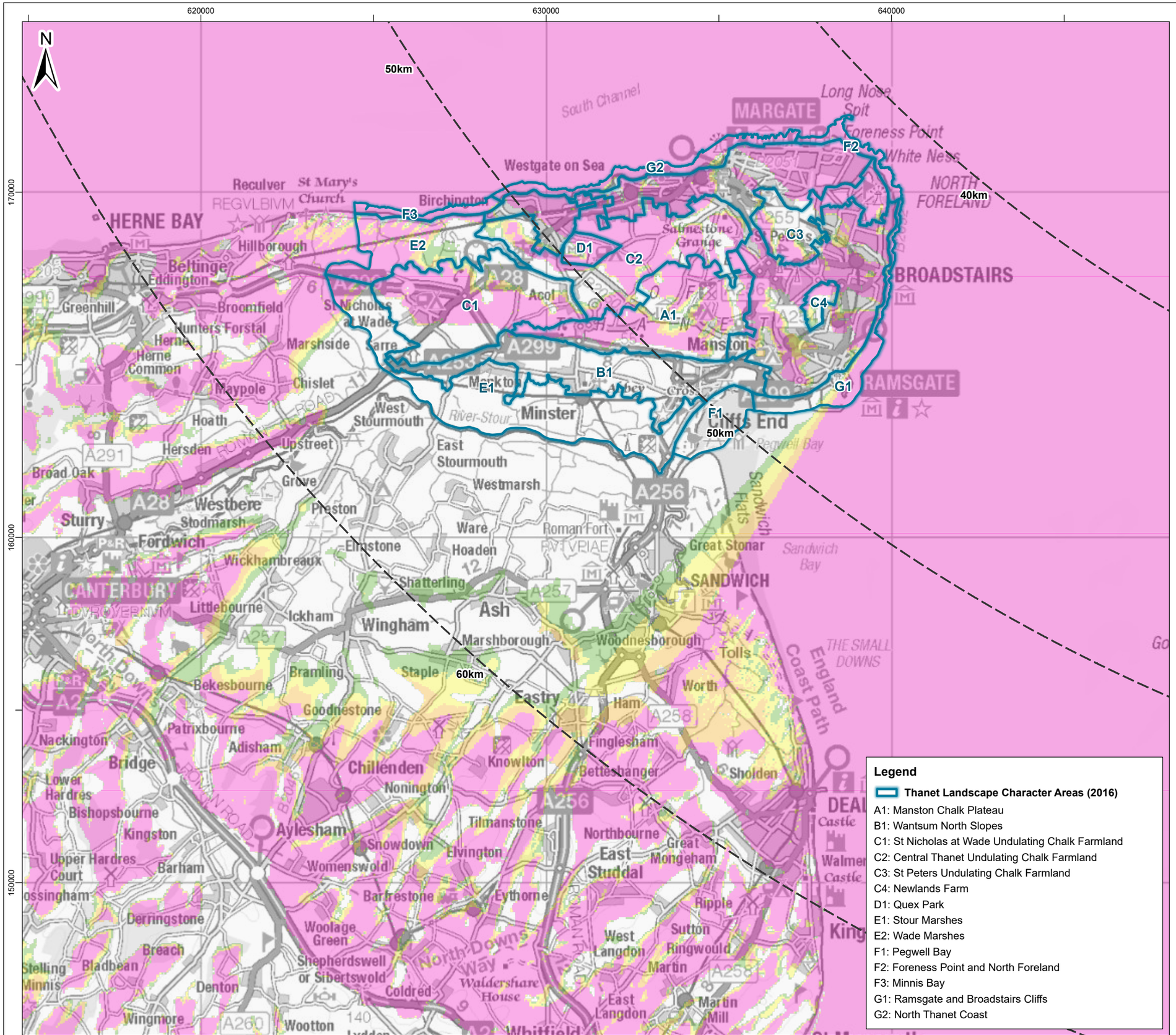
Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0010	29.1.5a3

Scale	Plot Size	Datum	Projection
1:110,000	A3	OSGB36	BNG

LUC

NORTH FALLS
Offshore Wind Farm

File ref: S:\11300\11328 - North Falls Offshore Wind Farm SLVIA\GIS\PRO\Report\11328_SLVIA\11328_SLVIA.aprx



Legend

Turbine buffers - 10km intervals

Bareground ZTV to Tip (381.39m)

- 1 - 10 Turbines Visible
- 11 - 20 Turbines Visible
- 21 - 30 Turbines Visible
- 31 - 34 Turbines Visible

Legend

Thanet Landscape Character Areas (2016)

- A1: Manston Chalk Plateau
- B1: Wantsum North Slopes
- C1: St Nicholas at Wade Undulating Chalk Farmland
- C2: Central Thanet Undulating Chalk Farmland
- C3: St Peters Undulating Chalk Farmland
- C4: Newlands Farm
- D1: Quex Park
- E1: Stour Marshes
- E2: Wade Marshes
- F1: Pegwell Bay
- F2: Foreness Point and North Foreland
- F3: Minnis Bay
- G1: Ramsgate and Broadstairs Cliffs
- G2: North Thanet Coast

Notes

The ZTV is calculated to turbine tip height (381.39m above Ordnance Datum) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2022).

The ZTV has been run to maximum theoretical visible extent to limits based on earth curvature. Atmospheric refraction has also been taken into account. The ZTV was calculated using ArcGIS Pro 3.1.0 software.

0 1 2 4 nm

0 1 2 4 km

Data Source: OS, LUC, RHDHV

Drawing Title

Landscape Character Types (District and County) with Blade Tip Height Zone of Theoretical Visibility

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0011	29.1.5a4

Scale	Plot Size	Datum	Projection
1:110,000	A3	OSGB36	BNG

LUC

NORTH FALLS Offshore Wind Farm

File ref: S:\11300\11328 - North Falls Offshore Wind Farm SLVIA\GIS\PRO\Report\11328_SLVIA\11328_SLVIA.aprx

600000
650000
700000
750000
250000
200000
150000

N

Suffolk Heritage Coast

Dedham Vale National Landscape

Suffolk and Essex Coast and Heaths National Landscape

Suffolk and Essex Coast and Heaths National Landscape

10km
20km
30km
40km
50km
60km

Kent Downs National Landscape

South Foreland Heritage Coast

Dover-folkestone Heritage Coast

Legend

- North Falls Array Area
- Turbine (indicative layout)
- Turbine buffers - 10km intervals
- Local Authority Boundary
- National Landscape
- Heritage Coast

0 5 10 20 nm

0 5 10 20 km

Data Source: OS, LUC, RHDHV

Drawing Title

Designated Landscapes

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

Drawing Number: **PB9244-LUC-ZZ-OF-DR-GS-0016**

Figure Number: **29.1.6a**

Scale	Plot Size	Datum	Projection
1:550,000	A3	OSGB36	BNG

LUC

NORTH FALLS
Offshore Wind Farm

File ref: S:\11300\11328 - North Falls Offshore Wind Farm SLVIA\GIS\PRO\Report\11328_SLVIA\11328_SLVIA.aprx

600000
650000
700000
750000
250000
200000
150000

N

Suffolk Heritage Coast

Dedham Vale National Landscape

Suffolk and Essex Coast and Heaths National Landscape

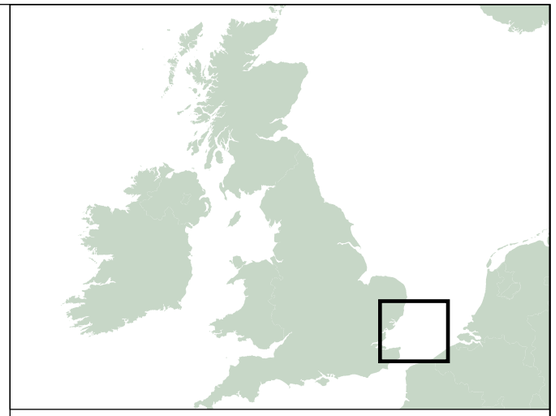
Suffolk and Essex Coast and Heaths National Landscape

10km
20km
30km
40km
50km
60km

Kent Downs National Landscape

South Foreland Heritage Coast

Dover-folkestone Heritage Coast



Legend

- North Falls Array Area
- Turbine (indicative layout)
- Turbine buffers - 10km intervals
- Local Authority Boundary
- National Landscape
- Heritage Coast

Bareground ZTV to Tip (381.39m)

- 1 - 10 Turbines Visible
- 11 - 20 Turbines Visible
- 21 - 30 Turbines Visible
- 31 - 34 Turbines Visible

Notes

The ZTV is calculated to turbine tip height (381.39m above Ordnance Datum) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2022).

The ZTV has been run to maximum theoretical visible extent to limits based on earth curvature. Atmospheric refraction has also been taken into account. The ZTV was calculated using ArcGIS Pro 3.1.0 software.

0 5 10 20 nm

0 5 10 20 km

Data Source: OS, LUC, RHDHV

Drawing Title

Designated Landscapes with Blade Tip Height (381.39m) Zone of Theoretical Visibility

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0017	29.1.6b

Scale	Plot Size	Datum	Projection
1:550,000	A3	OSGB36	BNG

LUC

NORTH FALLS
Offshore Wind Farm

File ref: S:\11300\11328 - North Falls Offshore Wind Farm SLVIA\GIS\PRO\Report\11328_SLVIA\11328_SLVIA.aprx

600000
650000
700000
750000
250000
200000
150000

N

Breckland District
South Norfolk District
West Suffolk District
Mid Suffolk District
East Suffolk District
Ipswich District
Babergh District
Braintree District
Colchester District
Tendring District
Maldon District
Rochford District
Southend-on-Sea
Medway
Swale
Thanet District
Canterbury
Maidstone
Dover
Ashford District
Folkestone and Hythe

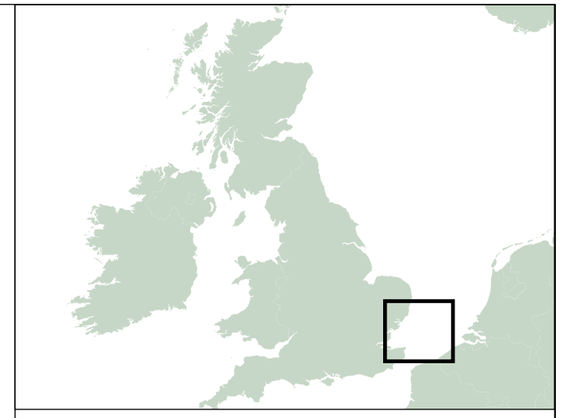
VP1
VP2
VP3
VP4
VP17
VP5
VP6
VP7
VP8
VP9
VP10
VP11
VP12
VP13
VP14
VP15
VP16

10km
20km
30km
40km
50km
60km

DOVER

Legend

- Viewpoint
- 1: Covehithe
- 2: Southwold Pier
- 3: Dunwich Coastguard Cottages
- 4: Sizewell Beach
- 5: Cliffs above Thorpeness
- 6: Aldeburgh
- 7: Orford Castle
- 8: Orford Ness
- 9: Shingle Street
- 10: Pulhamite Cliffs (Bawdsey Manor)
- 11: Felixstowe Seafront Gardens
- 12: Landguard Fort
- 13: Naze Tower
- 14: Frinton on Sea
- 15: Clacton on Sea
- 16: North Foreland
- 17: Coastal Path between Thorpeness and Sizewell (wireline only)



Legend

- North Falls Array Area
- Turbine (indicative layout)
- Turbine buffers - 10km intervals
- Local Authority Boundary

Met Office Visibility Range

- < 1km Very Poor Visibility
- 1 - 4km Poor Visibility
- 4 - 10km Moderate Visibility
- 10 - 20km Good Visibility
- 20 - 40km Very Good Visibility
- > 40km Excellent Visibility

0 5 10 20 nm

0 5 10 20 km

Data Source: OS, LUC, RHDHV

Drawing Title

Visibility Range

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

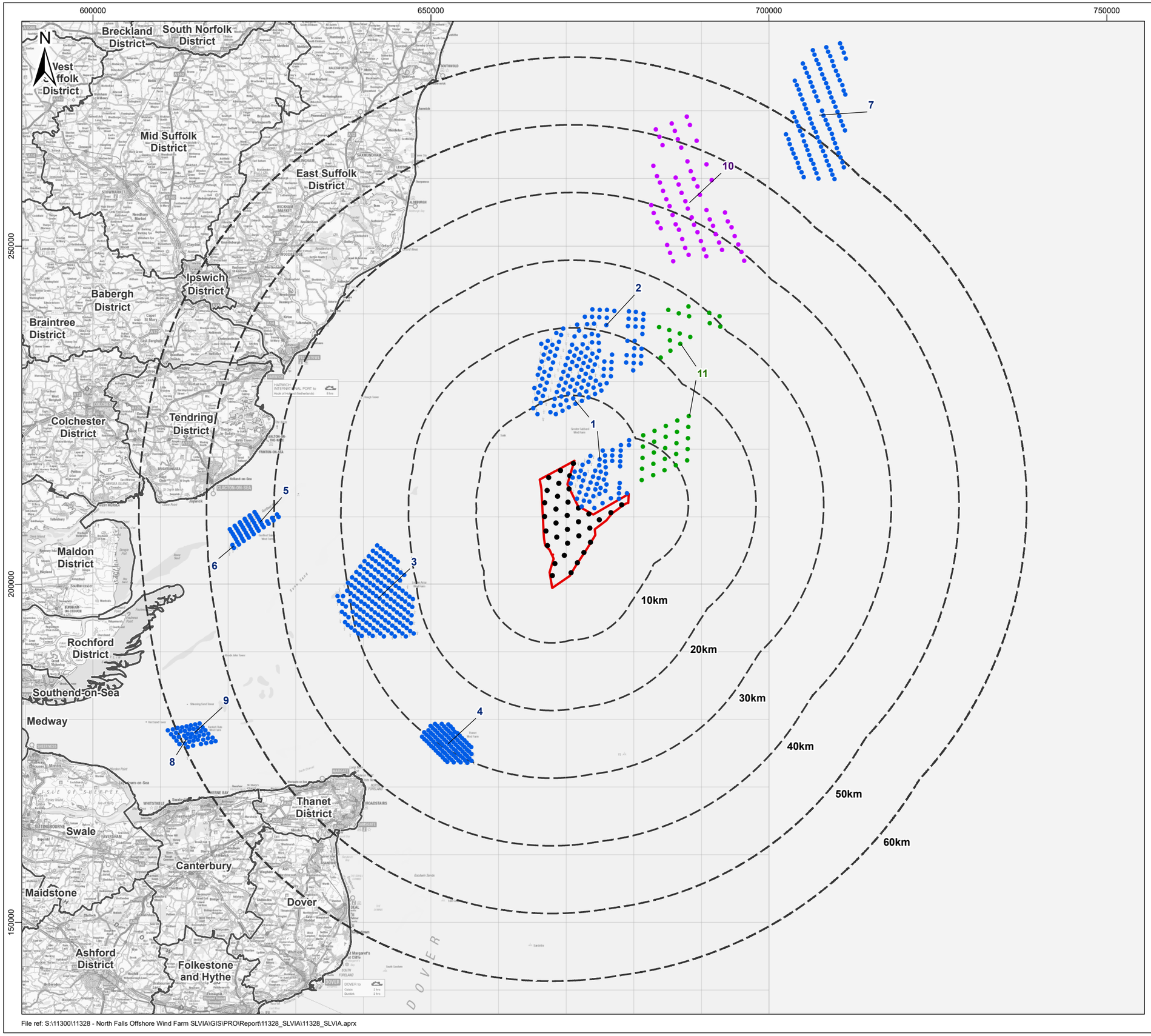
Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0018	29.1.7

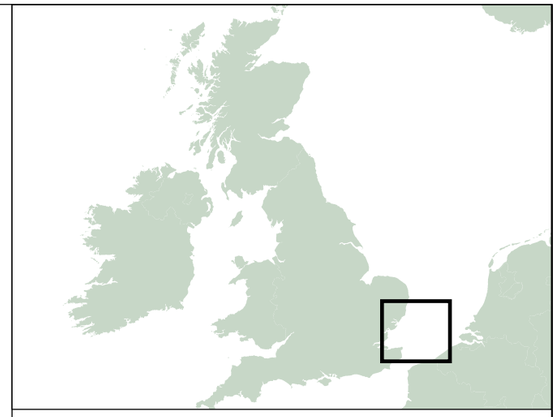
Scale	Plot Size	Datum	Projection
1:550,000	A3	OSGB36	BNG

LUC

NORTH FALLS
Offshore Wind Farm

File ref: S:\11300\11328 - North Falls Offshore Wind Farm SLVIA\GIS\PRO\Report\11328_SLVIA\11328_SLVIA.aprx





Legend

North Falls Array Area

Turbine (indicative layout)

Turbine buffers - 10km intervals

Local Authority Boundary

Wind Farm Status

- Operational
- Consented
- Scoping

Operational

1: Greater Gabbard
2: Galloper
3: London Array - Phase 1
4: Thanet
5: Gunfleet Sands - Phase 1 and 2
6: Gunfleet Sands - Phase 3 Demonstration Project
7: East Anglia One
8: Kentish Flats Extension
9: Kentish Flats

Consented

10: East Anglia Two

Scoping

11: Five Estuaries

0 5 10 20 nm

0 5 10 20 km

Data Source: OS, LUC, RHDHV

Drawing Title

Operational, Consented, Proposed and Scoping Offshore Wind Farms within 60km

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0019	29.1.8

Scale	Plot Size	Datum	Projection
1:550,000	A3	OSGB36	BNG

LUC

NORTH FALLS
Offshore Wind Farm

File ref: S:\11300\11328 - North Falls Offshore Wind Farm SLVIA\GIS\PRO\Report\11328_SLVIA\11328_SLVIA.aprx

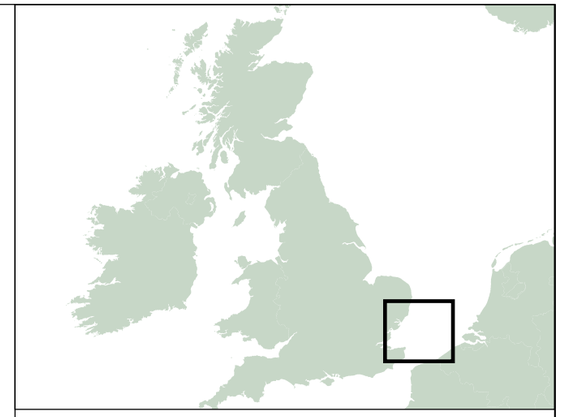
600000
650000
700000
750000
250000
200000
150000

N

Breckland District
South Norfolk District
West Suffolk District
Mid Suffolk District
East Suffolk District
Ipswich District
Babergh District
Braintree District
Colchester District
Tendring District
Maldon District
Rochford District
Southend-on-Sea
Medway
Swale
Thanet District
Canterbury
Maidstone
Dover
Ashford District
Folkestone and Hythe

1
2
3
4
5
6
7
8
9

10km
20km
30km
40km
50km
60km



Legend

- North Falls Array Area
- Turbine (indicative layout)
- Turbine buffers - 10km intervals
- Local Authority Boundary

Wind Farm Status

- Operational

Operational

1: Greater Gabbard
2: Galloper
3: London Array - Phase 1
4: Thanet
5: Gunfleet Sands - Phase 1 and 2
6: Gunfleet Sands - Phase 3 Demonstration Project
7: East Anglia One
8: Kentish Flats Extension
9: Kentish Flats

Theoretical wind energy development visibilty

- Only the cumulative schemes are visible
- Only North Falls is visible
- Both North Falls and the cumulative schemes are visible

0 5 10 20 nm
0 5 10 20 km

Data Source: OS, LUC, RHDHV

Notes

The CZTV is calculated to using ZTVs for each operational wind farm within 60km of the North Falls windfarm. These ZTVs were calculated to turbine tip height above Ordnance Datum from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2022).

The ZTV has been run to maximum theoretical visible extent to limits based on earth curvature. Atmospheric refraction has also been taken into account. The ZTV was calculated using ArcGIS Pro 3.1.0 software.

Drawing Title

Comparative Cumulative ZTV (Operational Offshore Schemes vs North Falls)

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN
02	07/02/2024	Second Issue	RW	JN

Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0020	29.1.9a

Scale	Plot Size	Datum	Projection
1:550,000	A3	OSGB36	BNG

LUC

NORTH FALLS
Offshore Wind Farm

File ref: S:\11300\11328 - North Falls Offshore Wind Farm SLVIA\GIS\PRO\Report\11328_SLVIA\11328_SLVIA.aprx

600000
650000
700000
750000
250000
200000
150000

N

Breckland District
South Norfolk District
West Suffolk District
Mid Suffolk District
East Suffolk District
Ipswich District
Babergh District
Braintree District
Colchester District
Tendring District
Maldon District
Rochford District
Southend-on-Sea
Medway
Swale
Thanet District
Canterbury
Maidstone
Dover
Ashford District
Folkestone and Hythe

1
2
3
4
5
6
7
8
9
10
11

10km
20km
30km
40km
50km
60km

Legend

Wind Farm Status

- Operational
- Consented
- Scoping

Operational

1: Greater Gabbard
2: Galloper
3: London Array - Phase 1
4: Thanet
5: Gunfleet Sands - Phase 1 and 2
6: Gunfleet Sands - Phase 3 Demonstration Project
7: East Anglia One
8: Kentish Flats Extension
9: Kentish Flats

Consented

10: East Anglia Two

Scoping

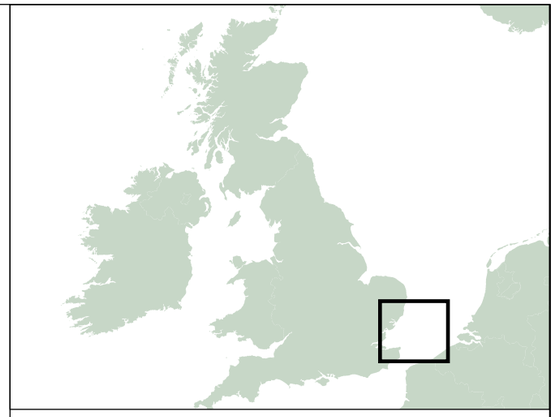
11: Five Estuaries

Notes

The CZTV is calculated to using ZTVs for each operational, consented and proposed wind farm within 60km of the North Falls windfarm. These ZTVs were calculated to turbine tip height above Ordnance Datum from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2022).

The ZTV has been run to maximum theoretical visible extent to limits based on earth curvature. Atmospheric refraction has also been taken into account. The ZTV was calculated using ArcGIS Pro 3.1.0 software.

File ref: S:\11300\11328 - North Falls Offshore Wind Farm SLVIA\GIS\PRO\Report\11328_SLVIA\11328_SLVIA.aprx



Legend

- North Falls Array Area
- Turbine (indicative layout)
- Turbine buffers - 10km intervals
- Local Authority Boundary

Theoretical wind energy development visibilty

- Only the cumulative schemes are visible
- Only North Falls is visible
- Both North Falls and the cumulative schemes are visible

0 5 10 20 nm
0 5 10 20 km

Data Source: OS, LUC, RHDHV

Drawing Title

Comparative Cumulative ZTV (Operational, Consented and Proposed Schemes vs North Falls)

Rev	Date	Remarks	Drwn	Chkd
01	10/11/2023	First issue	JN	JN

Drawing Number	Figure Number
PB9244-LUC-ZZ-OF-DR-GS-0021	29.1.9b

Scale	Plot Size	Datum	Projection
1:550,000	A3	OSGB36	BNG

LUC

NORTH FALLS
Offshore Wind Farm

NORTH FALLS

Offshore Wind Farm

HARNESSING THE POWER OF NORTH SEA WIND

North Falls Offshore Wind Farm Limited

A joint venture company owned equally by SSE Renewables and RWE.

To contact please email contact@northfallsoffshore.com