NORTH FALLS

Offshore Wind Farm

Cumulative visualisations at the onshore substation, including the Norwich to Tilbury Pylons wirelines Part 2 of 2 (Rev 0)

Document Reference:	9.44
Volume:	9
Date:	April 2025
Revision:	0

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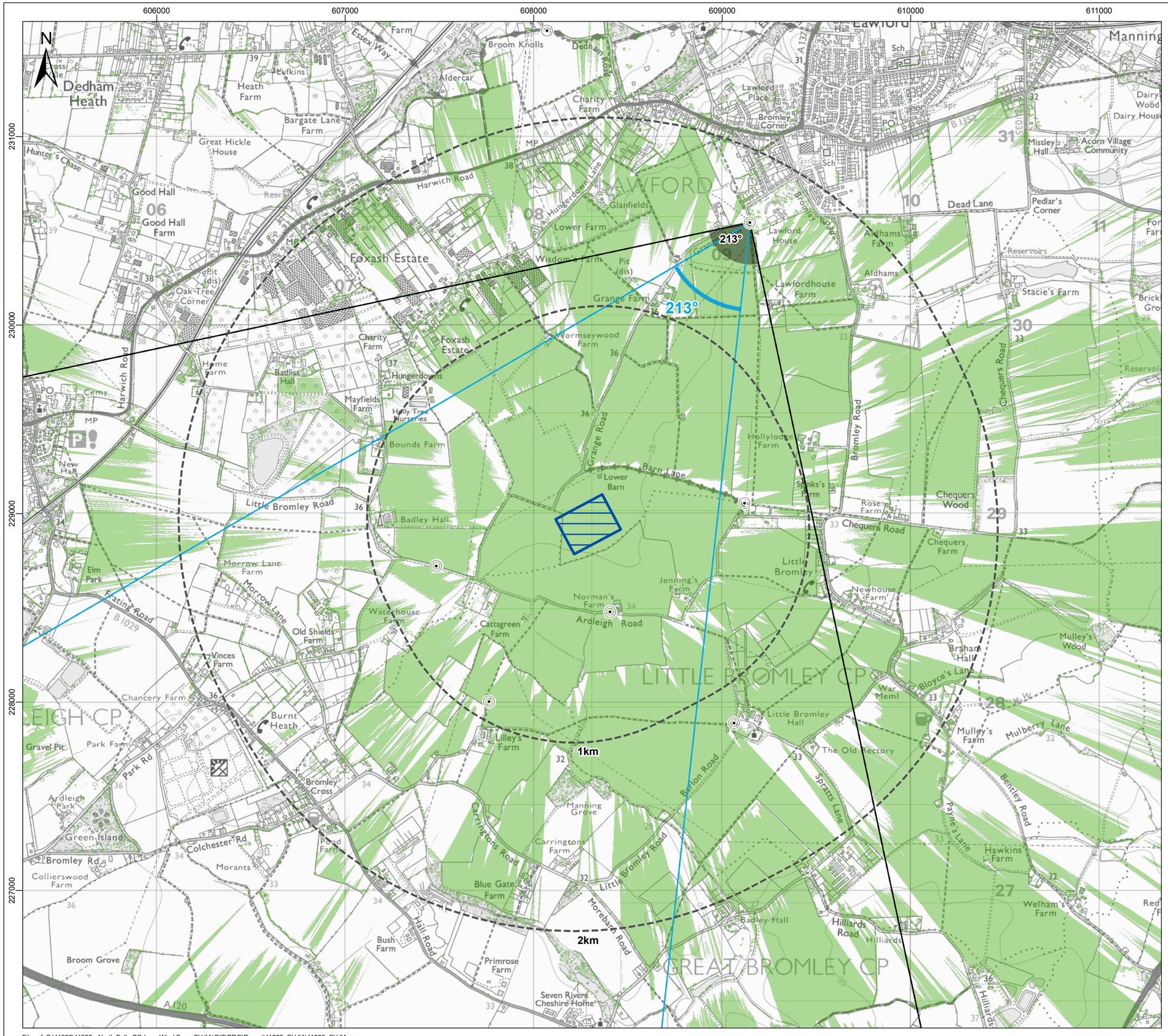
NORTH FALLS
Offshore Wind Farm

Project	North Falls Offshore Wind Farm
Document Title	Cumulative visualisations at the onshore substation, including the Norwich to Tilbury Pylons wirelines Part 2 of 2 (Rev 0)
Document Reference	9.44
Supplier	Royal HaskoningDHV
Supplier Document ID	PB9244-RHD-ZZ-ON-RP-ON-0374

Revision	Date	Status/Reason for Issue	Originator	Checked	Approved
0	April 2025	Deadline 4	LUC	NFOW	NFOW



Legend

- North Falls Substation Operational Footprint
- Substation Operational Footprint 1km Interval Buffer
- Theoretical Visibility of Substation Components
- Viewpoint
- 53.5° Field of View
- 90° Field of View

Notes

The ZTV is calculated to a height of 18m (lightning masts) for the substation operational footprint, from a viewing height of 1.5m above ground level.

The digital surface model (DSM) used is LIDAR 1m (2022) data (obtained from DEFRA in December 2023). A DSM includes a surface model of trees, buildings and hedges. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.2 software.

0 1 1 km

Data Source: OS, LUC, RHDHV

Drawing Title

Viewpoint 6 - Grange Road

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-ON-DR-GS-0050	30.2.6

Scale	Plot Size	Datum	Projection
1:20,000	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

LUC

OS reference:	609147 E 230544 N
AOD (Above Ordnance Datum):	35.2 m
Direction of view:	213°
Distance to proposed substation :	1.64 km

Horizontal field of view:	90° (cylindrical projection)
Vertical field of view:	27°
Paper size:	841 x 297 mm (half A1)
Correct printed image size:	820 x 250 mm

Camera:	NIKON D750
Lens:	Nikkor AF 50mm f/1.8D
Camera height:	1.5 m (above AOD)
Date and time:	18/05/2022 09:49

North Falls - Onshore Substation

Figure: 30.2.6b

Viewpoint 6: Grange Road

LUC

OS reference:	609147 E 230544 N
AOD (Above Ordnance Datum):	35.2 m
Direction of view:	213°
Distance to proposed substation :	1.64 km

Horizontal field of view:	90° (cylindrical projection)
Vertical field of view:	27°
Paper size:	841 x 297 mm (half A1)
Correct printed image size:	820 x 250 mm

Camera:	NIKON D750
Lens:	Nikkor AF 50mm f/1.8D
Camera height:	1.5 m (above AOD)
Date and time:	18/05/2022 09:49

Proposed Norwich to Tilbury OHL

North Falls - Onshore Substation
Figure: 30.2.6c
Viewpoint 6: Grange Road

606000 607000 608000 609000 610000 611000

231000 230000 229000 228000 227000

N

322°

322°

1km

2km

Legend

- North Falls Substation Operational Footprint
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0 1 1 km

Data Source: OS, LUC, RHDHV

Drawing Title

Viewpoint 7 - Public Right of Way near Little Bromley Hall

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-ON-DR-GS-0051	30.2.7

Scale	Plot Size	Datum	Projection
1:20,000	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

LUC

OS reference:	609063 E 227889 N
AOD (Above Ordnance Datum):	34.1 m
Direction of view:	322°
Distance to proposed substation :	1.19 km

Horizontal field of view:	90° (cylindrical projection)
Vertical field of view:	27°
Paper size:	841 x 297 mm (half A1)
Correct printed image size:	820 x 250 mm

Camera:	NIKON D750
Lens:	Nikkor AF 50mm f/1.8D
Camera height:	1.5 m (above AOD)
Date and time:	18/05/2022 11:26

North Falls - Onshore Substation

Figure: 30.2.7b

Viewpoint 7: Public Right of Way near Little Bromley Hall

LUC

OS reference:	609063 E 227889 N
AOD (Above Ordnance Datum):	34.1 m
Direction of view:	322°
Distance to proposed substation :	1.19 km

Horizontal field of view:	90° (cylindrical projection)
Vertical field of view:	27°
Paper size:	841 x 297 mm (half A1)
Correct printed image size:	820 x 250 mm

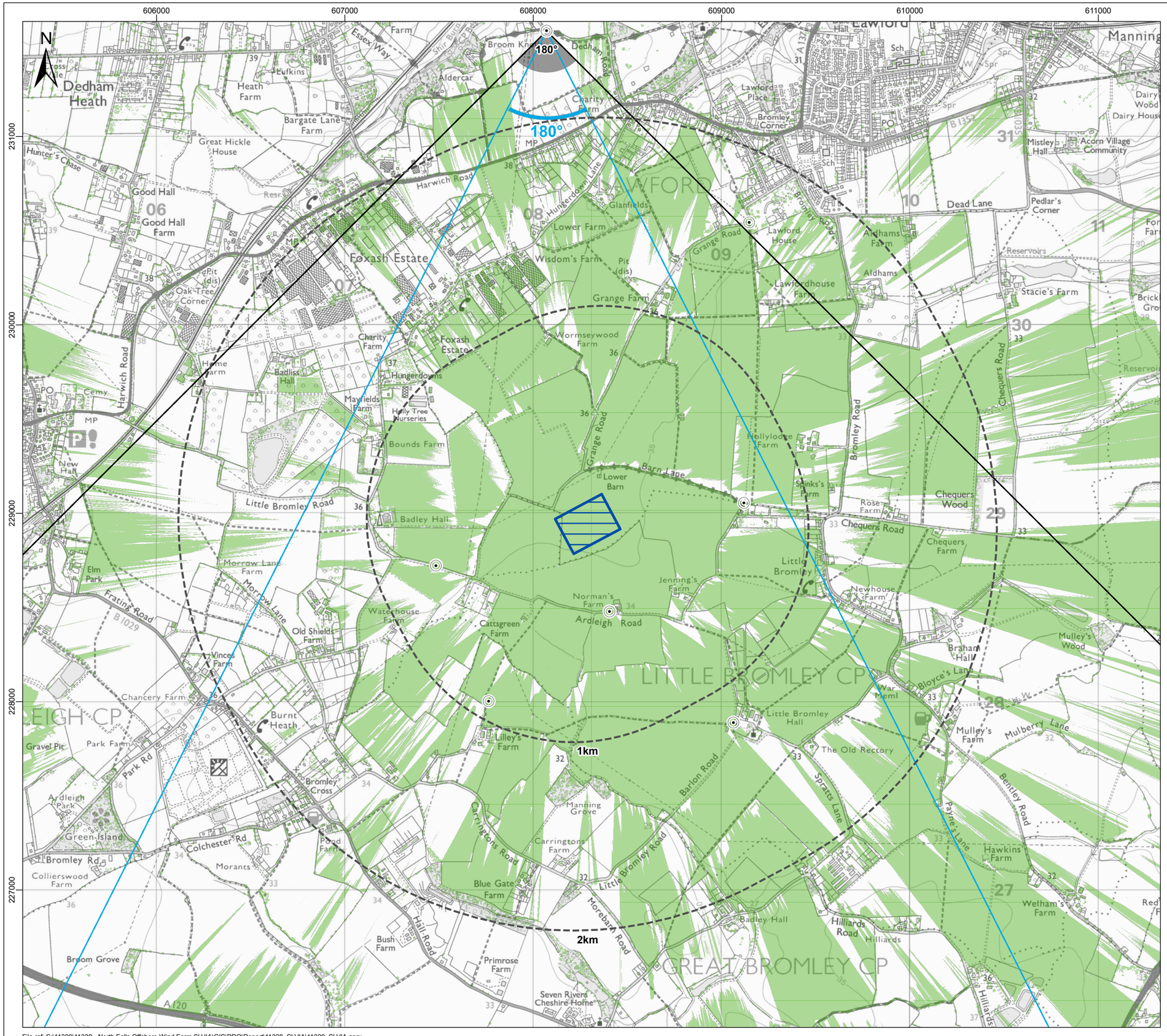
Camera:	NIKON D750
Lens:	Nikkor AF 50mm f/1.8D
Camera height:	1.5 m (above AOD)
Date and time:	18/05/2022 11:26

Proposed Norwich to Tilbury OHL

North Falls - Onshore Substation

Figure: 30.2.7c

Viewpoint 7: Public Right of Way near Little Bromley Hall



Legend

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- Substation Operational Footprint 1km Interval Buffer
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- Viewpoint
- 53.5° Field of View
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0 1 1 km

Data Source: OS, LUC, RHDHV

Drawing Title

Viewpoint 8 - Essex Way, Dedham Road

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-ON-DR-GS-0052	30.2.8

Scale	Plot Size	Datum	Projection
1:20,000	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

LUC

OS reference:	608071 E 231561 N
AOD (Above Ordnance Datum):	38.13 m
Direction of view:	180°
Distance to proposed substation :	2.48 km

Horizontal field of view:	90° (cylindrical projection)
Vertical field of view:	27°
Paper size:	841 x 297 mm (half A1)
Correct printed image size:	820 x 250 mm

Camera:	NIKON D750
Lens:	Nikkor AF 50mm f/1.8D
Camera height:	1.5 m (above AOD)
Date and time:	13/12/2023 09:12

North Falls - Onshore Substation

Figure: 30.2.8a

Viewpoint 8: Essex Way Dedham Road

LUC

OS reference:	608071 E 231561 N
AOD (Above Ordnance Datum):	38.13 m
Direction of view:	180°
Distance to proposed substation :	2.48 km

Horizontal field of view:	90° (cylindrical projection)
Vertical field of view:	27°
Paper size:	841 x 297 mm (half A1)
Correct printed image size:	820 x 250 mm

Camera:	NIKON D750
Lens:	Nikkor AF 50mm f/1.8D
Camera height:	1.5 m (above AOD)
Date and time:	13/12/2023 09:12

Proposed Norwich to Tilbury OHL

North Falls - Onshore Substation

Figure: 30.2.8b

Viewpoint 8: Essex Way Dedham Road

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

North Falls Offshore Wind Farm Limited Registered Address: Windmill Hill Business Park, Whitehill Way, Swindon, Wiltshire, SN5 6PB, United Kingdom

Registered in England and Wales Company Number: 12435947