

Outer Dowsing Offshore Wind Preliminary Environmental Information Report Volume 2, Appendix 28.1: Landscape and Visual Assessment Visualisations Wirelines Part 1 of 2

Date: June 2023

Outer Dowsing Document No: 6.2.28.1
Internal Reference: PP1-ODOW-DEV-CS-REP-0076

Rev: V1.0

Visualisation Methodology

Introduction

The viewpoint assessment is illustrated by a range of visualisations, including photographs and photomontages, which have been produced in accordance with NatureScot Visual Representation of Windfarms Guidance (NatureScot, 2017) and Landscape Institute (2019) Technical Guidance Note (TGN) 06/19 Visual Representation of Development Proposals.

The photographs used to produce the photomontages have been taken using Canon EOS 5D and 6D Digital SLR cameras, with a fixed lens and a full-frame (35 mm negative size) CMOS sensor. The photographs are taken on a tripod with a pano-head at a height of approximately 1.5m above ground. To create the baseline panorama, the frames are individually cylindrically projected and then digitally joined to create a planar projected panorama with a 53.5-degree field of view. Tonal alterations are made using Adobe software to create an even range of tones across the photographs once joined.

A photomontage is a visualisation which superimposes an image of a Project upon a photograph or series of photographs. Photomontage is a widespread and popular visualisation technique, which allows changes in views and visual amenity to be illustrated and assessed, within known views of the ‘real’ landscape. A 3D block model of the Gas Insulated Switchgear (GIS) Onshore Substation (OnSS) has been included in the viewpoint visualisations. The parameters of the 3D block model and its location on the estimated OnSS platform taken from existing ground levels, are considered to represent the maximum design scenario for PEIR.

Photographs and photomontages have been prepared for all 14 viewpoints and visualisation figures are listed in the table opposite.

The diagram opposite illustrates the maximum design scenario that has been applied for the 3D block model for the OnSS, with a 19m maximum height applied to the extents of the buildings and 12m maximum height applied to all other infrastructure. While the lightning masts extend to a maximum of 30m, their slender design means they are not included in the overall consideration of maximum infrastructure height in the LVIA.

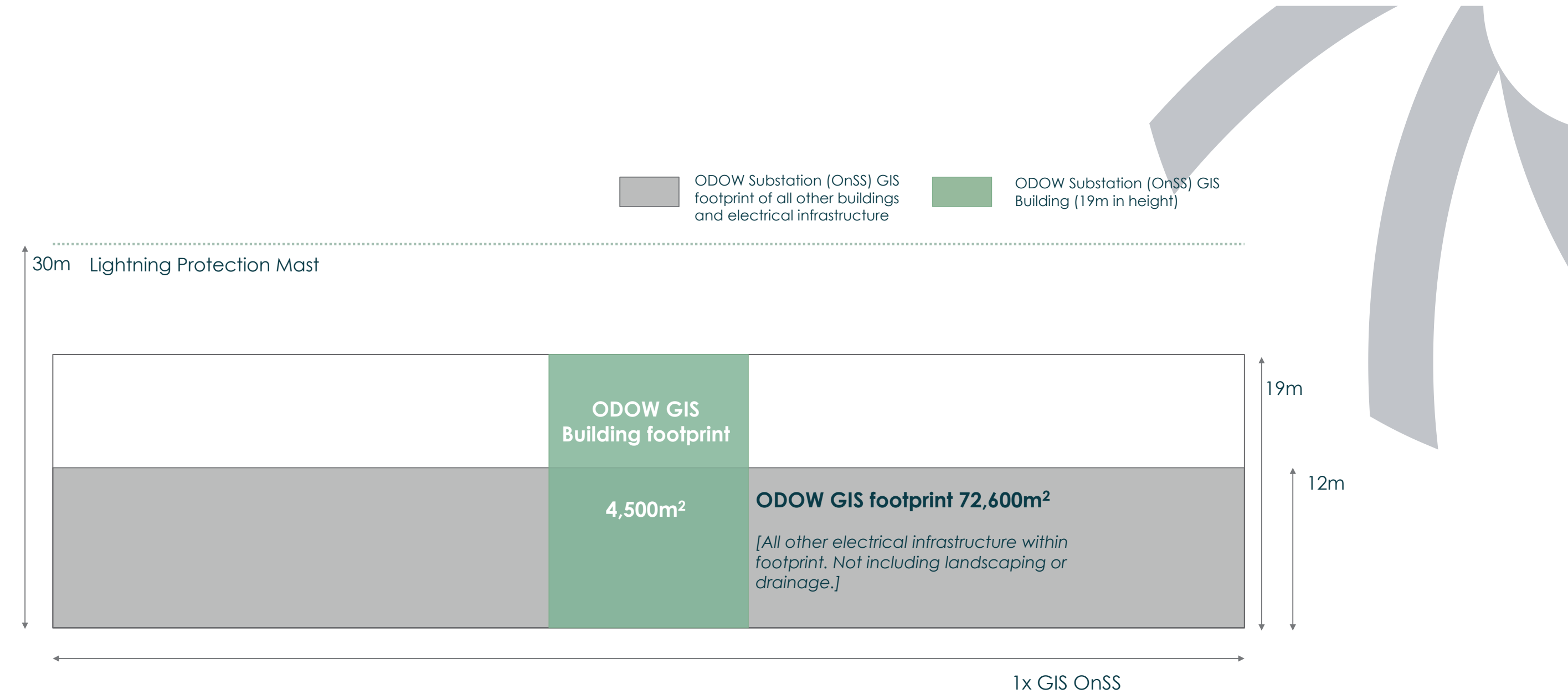
The use of the 3D block model is based on the ‘Rochdale Envelope’ approach, as supported by The Planning Inspectorate Advice Note Nine (The Planning Inspectorate, 2018). The Rochdale Envelope presents the parameters of the project which represent the maximum design scenario (MDS). This ensures the DCO application covers the maximum possible extent of the project. Visualisations in Figures 27.32 to 27.45, therefore, present a Rochdale Envelope approach, marked by a grey wireframe 3D box around the maximum extent of the OnSS, with a green 3D box indicating the height and extent of the GIS building, although with the understanding that this could be positioned in an alternative location within the grey wireframe 3D box. The grey 3D box represents the extent of the other infrastructure.

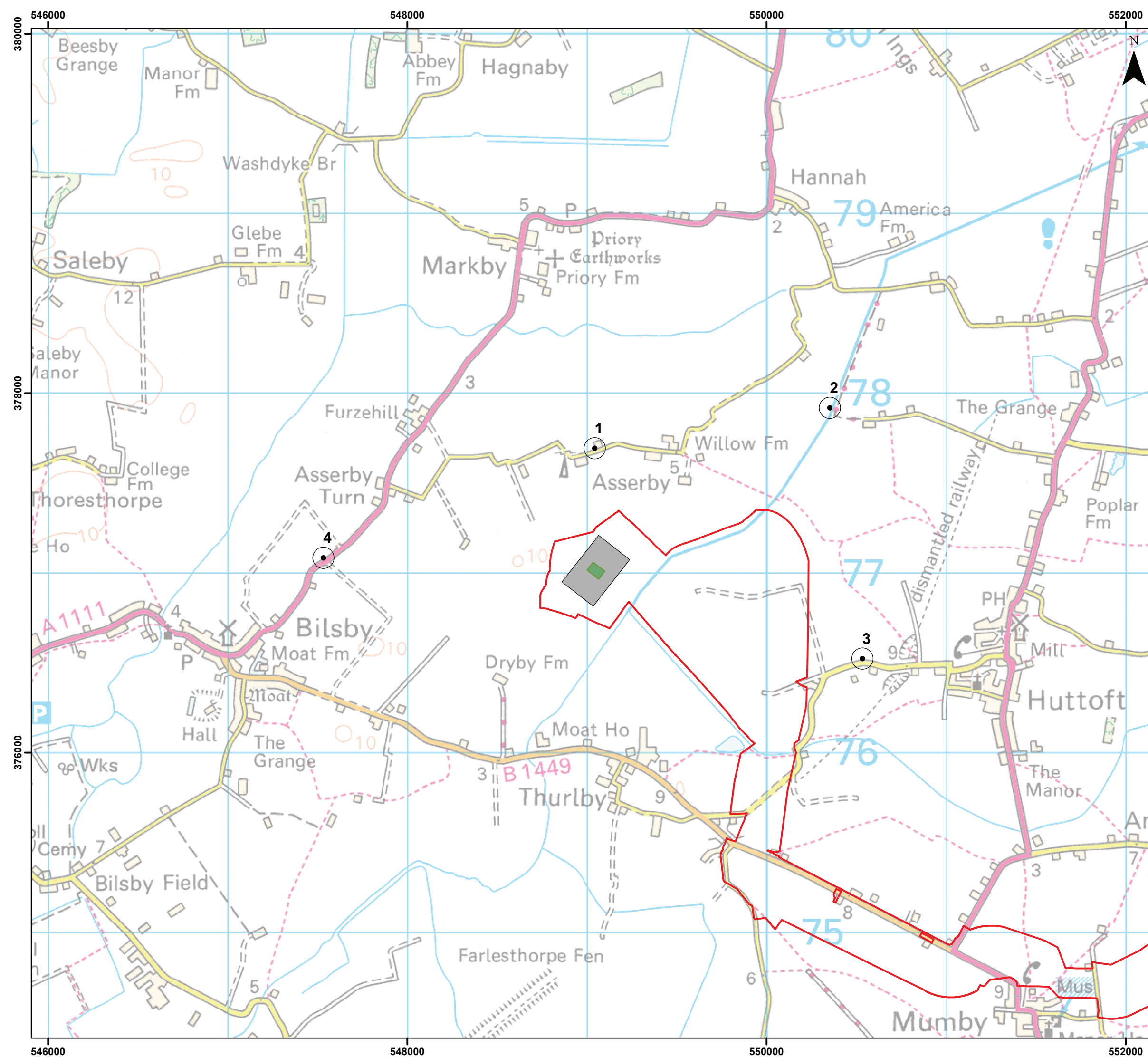
The proposed mitigation planting has been included in the viewpoints for each of the three indicative OnSS locations. These visualisations represent the approximate height of mitigation planting after 15 years, estimated to be 7 to 10m and as shown on the year 15 visualisations at an average of 8.5m in height.

At DCO Application, the design of the OnSS will be further developed within the parameters set by the Rochdale Envelope. The footprint of the OnSS and the height of the structures within this footprint will not exceed the maximum parameters shown in the photomontages. The DCO Application will include a computer-generated model included in the visualisations and this will provide a more realistic impression of the OnSS, albeit still as an indicative representation of the OnSS within the Rochdale Envelope.

Viewpoint Visualisations Figure References

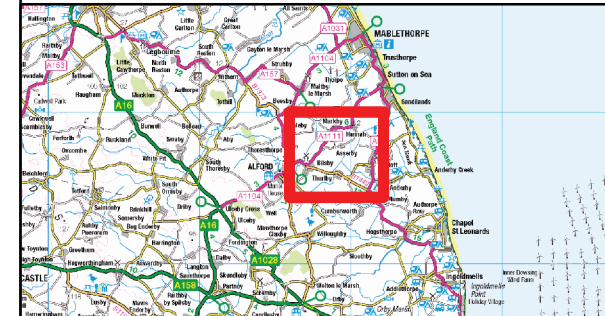
Receptor	Existing	Proposed Substation	Proposed Substation with Mitigation Planting (15 years growth)
Lincolnshire Node OnSS			
LN1 Asserby Road	28.32a	28.32b	28.32c
LN2 Mill Lane	28.33a	28.33b	28.33c
LN3 Alford Road	28.34a	28.34b	28.34c
LN4 Bilsby	28.35a	28.35b	28.35c
Weston Marsh North OnSS			
WMN1 Marsh Lane Manor House	28.36a	28.36b	28.36c
WMN2 A16 near Marsh Lane junction	28.37a	28.37b	28.37c
WMN3 A16 near Gosberton Bank junction	28.38a	28.38b	28.38c
WMN4 Macmillan Way near Ship Inn	28.39a	28.39b	28.39c
WMN5 Macmillan Way near Welland House	28.40a	28.40b	28.40c
Weston Marsh South OnSS			
WMS1 Marsh Road near Crowtree Farm	28.41a	28.41b	28.41c
WMS2 Marsh Road near Kindergarten Nursery	28.42a	28.42b	28.42c
WMS3 B1357 near Loosegate	28.43a	28.43b	28.43c
WMS4 Carrington Road south	28.44a	28.44b	28.44c
WMS5 Common Road north	28.45a	28.45b	28.45c





- Legend**
- PEIR Boundary
 - ODOW Substation (ONSS) GIS Building
 - ODOW Substation (OnSS) GIS Footprint of all other buildings and electrical infrastructure
 - Viewpoints
 - 1 - Asserby Road
 - 2 - Mill Lane
 - 3 - Alford Road
 - 4 - Bilsby

Sources:
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Coordinate System: British National Grid
 0 1 km

Scale: 1:20,000

Lincolnshire Node
 Viewpoint Location Plan



Date: 23/05/2023
 Produced By: LA
 Revision: 1



TYPE 4 VISUALISATION

OS reference: 549042E 377693N
Eye level: 6.9 m AOD
Direction of view: 179°
Distance to site: 0.5 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 08/10/2022, 07:09:21

Enlargement Factor: 150% @A1

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Figure 28.32a - Existing
Lincolnshire Node Viewpoint 1: Asserby Road
OUTER DOWSING OFFSHORE WIND




TYPE 4 VISUALISATION

OS reference: 549042E 377693N
 Eye level: 6.9 m AOD
 Direction of view: 179°
 Distance to site: 0.5 km

Horizontal field of view: 53.5° (planar projection)
 Principal distance: 812.5 mm
 Paper size: 841 x 297 mm (half A1)
 Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
 Lens: Canon EF 50mm f/1.4
 Camera height: 1.5 m
 Date and time: 08/10/2022, 07:09:21

Enlargement Factor: 150% @A1

 ODOW Substation (OnSS) GIS Footprint of all other buildings and electrical infrastructure (12m in height)

 ODOW Substation (ONSS) GIS Building (19m in height)

 ODOW Substation (ONSS) GIS Building Rochdale Envelope (19m in height)

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Figure 28.32b - Proposed Substation (Maximum Design Scenario)
 Lincolnshire Node Viewpoint 1: Asserby Road
 OUTER DOWSING OFFSHORE WIND



TYPE 4 VISUALISATION

OS reference: 549042E 377693N
 Eye level: 6.9 m AOD
 Direction of view: 179°
 Distance to site: 0.5 km

Horizontal field of view: 53.5° (planar projection)
 Principal distance: 812.5 mm
 Paper size: 841 x 297 mm (half A1)
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Camera: Canon EOS 6D
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Enlargement Factor: 150% @A1

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- ODOW Substation (ONSS) GIS Building (19m in height)
- ODOW Substation (ONSS) GIS Building Rochdale Envelope (19m in height)

Figure 28.32c - Proposed Substation (Maximum Design Scenario) with Mitigation Planting (15 Years Growth)
 Lincolnshire Node Viewpoint 1: Asserby Road
 OUTER DOWSING OFFSHORE WIND

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TYPE 4 VISUALISATION

OS reference: 550351E 377919N
Eye level: 3.5 m AOD
Direction of view: 235°
Distance to site: 1.4 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 08/10/2022, 07:41:56

Enlargement Factor: 150% @A1

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Figure 28.33a - Existing
Lincolnshire Node Viewpoint 2: Mill Lane
OUTER DOWSING OFFSHORE WIND



TYPE 4 VISUALISATION

OS reference: 550351E 377919N
Eye level: 3.5 m AOD
Direction of view: 235°
Distance to site: 1.4 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 08/10/2022, 07:41:56

Enlargement Factor: 150% @A1

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Figure 28.33b - Proposed Substation (Maximum Design Scenario)
 Lincolnshire Node Viewpoint 2: Mill Lane
OUTER DOWSING OFFSHORE WIND



TYPE 4 VISUALISATION

OS reference: 550351E 377919N
Eye level: 3.5 m AOD
Direction of view: 235°
Distance to site: 1.4 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 08/10/2022, 07:41:56

Enlargement Factor: 150% @A1

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Figure 28.33c - Proposed Substation (Maximum Design Scenario) with Mitigation Planting (15 Years Growth)
 Lincolnshire Node Viewpoint 2: Mill Lane
OUTER DOWSING OFFSHORE WIND

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TYPE 4 VISUALISATION

OS reference: 550532E 376522N
Eye level: 4.7 m AOD
Direction of view: 288°
Distance to site: 1.4 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 08/10/2022, 08:08:29




Enlargement Factor: 150% @A1

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**Figure 28.34a - Existing
Lincolnshire Node Viewpoint 3: Alford Road
OUTER DOWSING OFFSHORE WIND**






TYPE 4 VISUALISATION

OS reference: 550532E 376522N	Horizontal field of view: 53.5° (planar projection)	Camera: Canon EOS 6D	Enlargement Factor: 150% @A1	 ODOV Substation (OnSS) GIS Footprint of all other buildings and electrical infrastructure (12m in height)	 ODOV Substation (ONSS) GIS Building (19m in height)	 ODOV Substation (ONSS) GIS Building Rochdale Envelope (19m in height)	<small>© Crown copyright and database rights (2023) Ordnance Survey 0100031673. © Environment Agency copyright and/or database right (2023). All rights reserved.</small>
Eye level: 4.7 m AOD	Principal distance: 812.5 mm	Lens: Canon EF 50mm f/1.4					Figure 28.34b - Proposed Substation (Maximum Design Scenario) Lincolnshire Node Viewpoint 3: Alford Road OUTER DOWSING OFFSHORE WIND
Direction of view: 288°	Paper size: 841 x 297 mm (half A1)	Camera height: 1.5 m					
Distance to site: 1.4 km	Correct printed image size: 820 x 260 mm	Date and time: 08/10/2022, 08:08:29					



TYPE 4 VISUALISATION

<p>OS reference: 550532E 376522N Eye level: 4.7 m AOD Direction of view: 288° Distance to site: 1.4 km</p>	<p>Horizontal field of view: 53.5° (planar projection) Principal distance: 812.5 mm Paper size: 841 x 297 mm (half A1) Correct printed image size: 820 x 260 mm</p>	<p>Camera: Canon EOS 6D Lens: Canon EF 50mm f/1.4 Camera height: 1.5 m Date and time: 08/10/2022, 08:08:29</p>	<p>Enlargement Factor: 150% @A1</p>	<p> ODOW Substation (OnSS) GIS Footprint of all other buildings and electrical infrastructure (12m in height)</p>	<p> ODOW Substation (ONSS) GIS Building (19m in height)</p>	<p> ODOW Substation (ONSS) GIS Building Rochdale Envelope (19m in height)</p>	<p>Figure 28.34c - Proposed Substation (Maximum Design Scenario) with Mitigation Planting (15 Years Growth) Lincolnshire Node Viewpoint 3: Alford Road OUTER DOWSING OFFSHORE WIND</p>
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TYPE 4 VISUALISATION

OS reference: 547532E 377083N
Eye level: 10 m AOD
Direction of view: 93°
Distance to site: 1.3 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 04/11/2022, 12:05:41

Enlargement Factor: 150% @A1

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Figure 28.35a - Existing
Lincolnshire Node Viewpoint 4: Bilsby
OUTER DOWSING OFFSHORE WIND



TYPE 4 VISUALISATION

OS reference: 547532E 377083N
 Eye level: 10 m AOD
 Direction of view: 93°
 Distance to site: 1.3 km

Horizontal field of view: 53.5° (planar projection)
 Principal distance: 812.5 mm
 Paper size: 841 x 297 mm (half A1)
 Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
 Lens: Canon EF 50mm f/1.4
 Camera height: 1.5 m
 Date and time: 04/11/2022, 12:05:41

Enlargement Factor: 150% @A1




- ODOW Substation (OnSS) GIS Footprint of all other buildings and electrical infrastructure (12m in height)
- ODOW Substation (ONSS) GIS Building (19m in height)
- ODOW Substation (ONSS) GIS Building Rochdale Envelope (19m in height)

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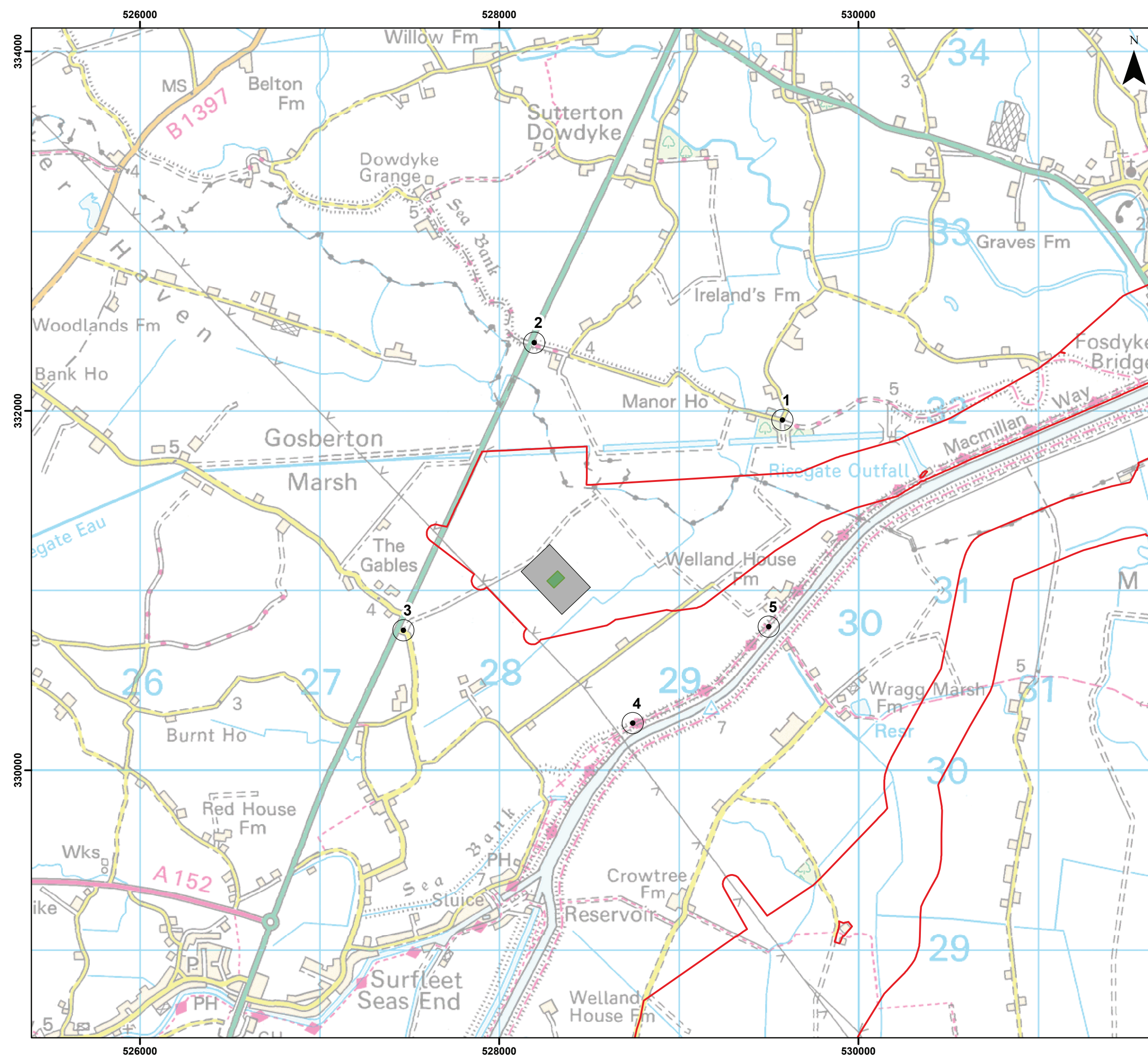
Figure 28.35b - Proposed Substation (Maximum Design Scenario)
 Lincolnshire Node Viewpoint 4: Bilsby
 OUTER DOWSING OFFSHORE WIND



TYPE 4 VISUALISATION

<p>OS reference: 547532E 377083N Eye level: 10 m AOD Direction of view: 93° Distance to site: 1.3 km</p>	<p>Horizontal field of view: 53.5° (planar projection) Principal distance: 812.5 mm Paper size: 841 x 297 mm (half A1) Correct printed image size: 820 x 260 mm</p>	<p>Camera: Canon EOS 6D Lens: Canon EF 50mm f/1.4 Camera height: 1.5 m Date and time: 04/11/2022, 12:05:41</p>	<p>Enlargement Factor: 150% @A1</p>	<p> ODOW Substation (OnSS) GIS Footprint of all other buildings and electrical infrastructure (12m in height)</p>	<p> ODOW Substation (ONSS) GIS Building (19m in height)</p>	<p> ODOW Substation (ONSS) GIS Building Rochdale Envelope (19m in height)</p>	<p>Figure 28.35c - Proposed Substation (Maximum Design Scenario) with Mitigation Planting (15 Years Growth) Lincolnshire Node Viewpoint 4: Bilsby OUTER DOWSING OFFSHORE WIND</p>
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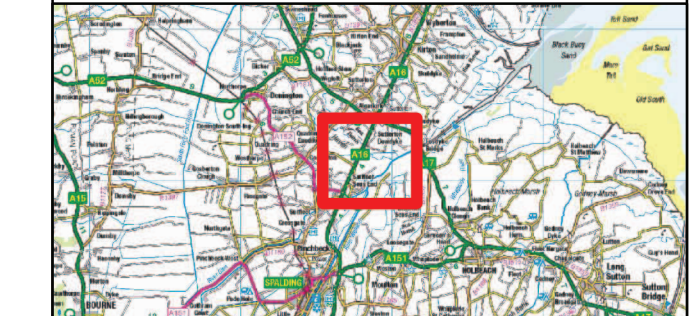
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Legend

- ▭ PEIR Boundary
- ▭ ODOW Substation (ONSS) GIS Building
- ▭ ODOW Substation (OnSS) GIS Footprint of all other buildings and electrical infrastructure
- Viewpoints
 - 1 - Marsh Lane Manor House
 - 2 - A16 near Marsh Lane junction
 - 3 - A16 near Gosberton Bank junction
 - 4 - Macmillan Way near Ship Inn
 - 5 - Macmillan Way near Welland House

Sources:
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Coordinate System: British National Grid
 0 1 km
 Scale: 1:20,000

Weston Marsh North
 Viewpoint Location Plan



OUTER DOWSING
OFFSHORE WIND



open
optimised environments

Date: 23/05/2023
 Produced By: LA
 Revision: 1

Document Path: P:\2021\211613 Outer Dowsing\211613_GIT\PEIR\ONSS\SHOREVIEW\POINT_PLANS\211613_ODOW_WMN_VP_Locn.mxd



TYPE 4 VISUALISATION

OS reference: 529577E 331949N
Eye level: 6 m AOD
Direction of view: 235°
Distance to site: 1.4 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 08/10/2022, 09:38:28

Enlargement Factor: 150% @A1

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Figure 28.36a - Existing
Weston Marsh North Viewpoint 1: Marsh Lane near Manor House
OUTER DOWSING OFFSHORE WIND



TYPE 4 VISUALISATION

OS reference: 529577E 331949N
 Eye level: 6 m AOD
 Direction of view: 235°
 Distance to site: 1.4 km

Horizontal field of view: 53.5° (planar projection)
 Principal distance: 812.5 mm
 Paper size: 841 x 297 mm (half A1)
 Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
 Lens: Canon EF 50mm f/1.4
 Camera height: 1.5 m
 Date and time: 08/10/2022, 09:38:28

Enlargement Factor: 150% @A1

- ODOW Substation (OnSS) GIS Footprint of all other buildings and electrical infrastructure (12m in height)
- ODOW Substation (ONSS) GIS Building (19m in height)
- ODOW Substation (ONSS) GIS Building Rochdale Envelope (19m in height)

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Figure 28.36b - Proposed Substation (Maximum Design Scenario)
 Weston Marsh North Viewpoint 1: Marsh Lane near Manor House
OUTER DOWSING OFFSHORE WIND



TYPE 4 VISUALISATION

OS reference: 529577E 331949N
 Eye level: 6 m AOD
 Direction of view: 235°
 Distance to site: 1.4 km

Horizontal field of view: 53.5° (planar projection)
 Principal distance: 812.5 mm
 Paper size: 841 x 297 mm (half A1)
 Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
 Lens: Canon EF 50mm f/1.4
 Camera height: 1.5 m
 Date and time: 08/10/2022, 09:38:28

Enlargement Factor: 150% @A1

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- ODOW Substation (ONSS) GIS Building Rochdale Envelope (19m in height)

Figure 28.36c - Proposed Substation (Maximum Design Scenario) with Mitigation Planting (15 Years Growth)
 Weston Marsh North Viewpoint 1: Marsh Lane near Manor House
 OUTER DOWSING OFFSHORE WIND

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TYPE 4 VISUALISATION

OS reference: 528195E 332380N
Eye level: 6.1m AOD
Direction of view: 175°
Distance to site: 1.1 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 08/10/2022, 13:43:09

Enlargement Factor: 150% @A1

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Figure 28.37a - Existing
Weston Marsh North Viewpoint 2: A16 near Marsh Lane junction
OUTER DOWSING OFFSHORE WIND



TYPE 4 VISUALISATION







<p>OS reference: 528195E 332380N Eye level: 6.1m AOD Direction of view: 175° Distance to site: 1.1 km</p>	<p>Horizontal field of view: 53.5° (planar projection) Principal distance: 812.5 mm Paper size: 841 x 297 mm (half A1) Correct printed image size: 820 x 260 mm</p>	<p>Camera: Canon EOS 6D Lens: Canon EF 50mm f/1.4 Camera height: 1.5 m Date and time: 08/10/2022, 13:43:09</p>	<p>Enlargement Factor: 150% @A1</p>	<p> ODOW Substation (OnSS) GIS Footprint of all other buildings and electrical infrastructure (12m in height)</p>	<p> ODOW Substation (ONSS) GIS Building (19m in height)</p>	<p> ODOW Substation (ONSS) GIS Building Rochdale Envelope (19m in height)</p>	<p><small>© Crown copyright and database rights (2023) Ordnance Survey 0100031673. © Environment Agency copyright and/or database right (2023). All rights reserved.</small></p>
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Figure 28.37b - Proposed Substation (Maximum Design Scenario)
 Weston Marsh North Viewpoint 2: A16 near Marsh Lane junction
OUTER DOWSING OFFSHORE WIND



TYPE 4 VISUALISATION

<p>OS reference: 528195E 332380N Eye level: 6.1m AOD Direction of view: 175° Distance to site: 1.1 km</p>	<p>Horizontal field of view: 53.5° (planar projection) Principal distance: 812.5 mm Paper size: 841 x 297 mm (half A1) Correct printed image size: 820 x 260 mm</p>	<p>Camera: Canon EOS 6D Lens: Canon EF 50mm f/1.4 Camera height: 1.5 m Date and time: 08/10/2022, 13:43:09</p>	<p>Enlargement Factor: 150% @A1</p>	<p> ODOW Substation (OnSS) GIS Footprint of all other buildings and electrical infrastructure (12m in height)</p>	<p> ODOW Substation (ONSS) GIS Building (19m in height)</p>	<p> ODOW Substation (ONSS) GIS Building Rochdale Envelope (19m in height)</p>	<p>Figure 28.37c - Proposed Substation (Maximum Design Scenario) with Mitigation Planting (15 Years Growth) Weston Marsh North Viewpoint 2: A16 near Marsh Lane junction OUTER DOWSING OFFSHORE WIND</p>
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TYPE 4 VISUALISATION

OS reference: 527466E 330780N
Eye level: 6m AOD
Direction of view: 72°
Distance to site: 0.7 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 08/10/2022, 13:27:23

Enlargement Factor: 150% @A1

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Figure 28.38a - Existing
Weston Marsh North Viewpoint 3: A16 at Surfleet Bank junction
OUTER DOWSING OFFSHORE WIND