



macroworks

LVIA PHOTOMONTAGES

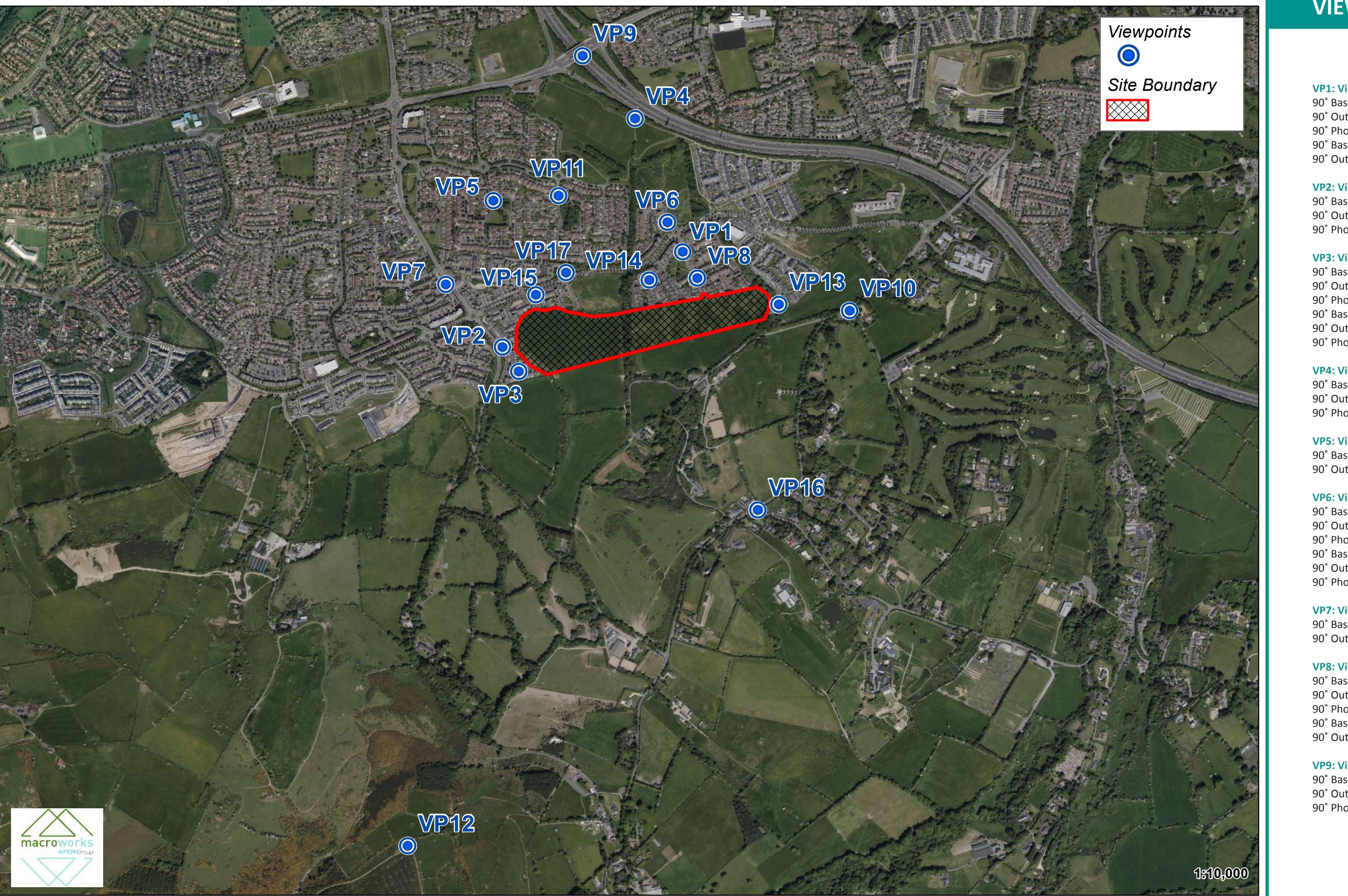
Appendix 15.1

This book contains imagery for the viewpoints chosen for the LVIA study

April 2025



VIEWPOINT INDEX



VP1: View from Stocking Wood park at Woodtown (approximately 156m) (a + b*)

90° Baseline Photography
90° Outline View
90° Photomontage
90° Baseline Photography
90° Outline View

VP10: View from R115 at Newtown (approximately 255m)*

90° Baseline Photography
90° Outline View

VP11: View from local road (Woodtown Rise) at Ballycullen (approximately 375m)

90° Baseline Photography
90° Outline View
90° Photomontage

VP12: View from 'Forest Loop' trail, Hell Fire Club & Massy's Estate (approximately 1.5km)

90° Baseline Photography
90° Outline View
90° Photomontage

VP13: View from local road (Abbots Grove Park) at Oldcourt (approximately 45m)

90° Baseline Photography
90° Outline View
90° Photomontage
90° Baseline Photography
90° Outline View
90° Photomontage

VP14: View from The Rock Meadow Park at Scholarstown (approximately 598m)

90° Baseline Photography
90° Outline View
90° Photomontage
90° Baseline Photography
90° Outline View
90° Photomontage

VP15: View from Woodstown Meadow park at Ballycullen (approximately 361m)*

90° Baseline Photography
90° Outline View

VP16: View from local road (Stocking Well) at Woodtown (approximately 250m) (a + b)

90° Baseline Photography
90° Outline View
90° Photomontage
90° Baseline Photography
90° Outline View
90° Photomontage

VP17: View from local road (Ballycullen Rd) at Oldcourt (approximately 253m)*

90° Baseline Photography
90° Outline View

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90° Baseline Photography
90° Outline View
90° Photomontage
90° Baseline Photography
90° Outline View
90° Photomontage

VP19: View from R113 at Motorway (M50) Overhead Bridge (approximately 800m)

90° Baseline Photography
90° Outline View
90° Photomontage

VP10: View from R115 at Newtown (approximately 255m)*

90° Baseline Photography
90° Outline View

VP11: View from local road (Woodtown Rise) at Ballycullen (approximately 375m)

90° Baseline Photography
90° Outline View
90° Photomontage

VP12: View from 'Forest Loop' trail, Hell Fire Club & Massy's Estate (approximately 1.5km)

90° Baseline Photography
90° Outline View
90° Photomontage

VP13: View from local road (White Pines Park) at Woodtown (approximately 28m)

90° Baseline Photography
90° Outline View
90° Photomontage

VP14: View from local road (Stocking Wood Rise) at Woodtown (approximately 83m) (a + b)

90° Baseline Photography
90° Outline View
90° Photomontage
90° Baseline Photography
90° Outline View
90° Photomontage

VP15: View from local road (Abbot's grove Avenue) at Ballycullen (approximately 48m) (a + b)

90° Baseline Photography
90° Outline View
90° Photomontage
90° Baseline Photography
90° Outline View
90° Photomontage

VP16: View from R115 at Woodtown (approximately 565m)*

90° Baseline Photography
90° Outline View

VP17: View from Stocking Avenue roundabout at Ballycullen (approximately 119m) (a + b)

90° Baseline Photography
90° Outline View
90° Photomontage
90° Baseline Photography
90° Outline View
90° Photomontage

***Please Note:** There is no Photomontage from this viewpoint as the proposed development is completely screened by existing vegetation and/or terrain

Introduction

There is no industry-standard definition of what constitutes a 'verified photomontage', and it has been applied in two different ways, namely in terms of image size/scaling, and the accuracy of the camera location. Both are essentially concerned with the ability to audit the accuracy of the visual material.

The Landscape Institute Technical Guidance Note 06/19 – Visual representation of development proposals (TGN 06/19) states that:

"Visualisations should provide the viewer with a fair representation of what would be likely to be seen if the proposed development is implemented and should portray the proposal in scale with its surroundings. In the context of landscape/townscape and visual impact assessment, it is crucial that visualisations are objective and sufficiently accurate for the task in hand. In short, visualisation should be fit for purpose."

Macro Works has produced the Verified View Montages (VVM) included in this document in accordance with TGN 06/19, guidance which is broadly consistent with Scottish Natural Heritage (now NatureScot) 'Visual Representation of Wind Farms' 2017. This guidance advocates a proportionate approach and appropriate levels of accuracy to the production of visual material.

In the context that the visual material is to accompany a planning application, Macro Works has followed a highly accurate and verifiable process to accurately communicate the scale, appearance, context, form, and extent of development, and ensure that the visual material is accurate, objective, and unbiased. The VVM are considered consistent with Type 4 in the guidance.

The photography was captured during good weather conditions with high levels of visibility. Photography has been taken to a very high standard in accordance with the guidance, and locational information is captured with a high degree of accuracy with regard to location and elevation.

The locations of the visualisations have been identified through the Landscape/Townscape and Visual Impact Assessment (LVIA or TVIA) process, and produced from 3D model information received from project architects/engineers.

This methodology has been prepared by Macro Works to explain the production of the VVM, ensuring the process is transparent and auditable.

Each VVM is subject to a thorough review and approval process which includes discussions with project engineers and architects to ensure it accurately reflects the architectural proposals.

For each viewpoint location, a 90° Horizontal Field of View (HFOV) cylindrical baseline photograph is provided to allow a 96% enlargement contextual reference. Image enlargement of 150% is recommended in the guidance (where feasible) to allow for binocular image scaling when printed, which results in an image with a 53.5° HFOV. Where this is not feasible because of proximity or infrastructure occupying a wide field of view well beyond 53.5° that would necessitate splitting the view across multiple images, 90° HFOV cylindrical images are presented to avoid confusion for the viewer. A bounding box illustrates the extent of a 53.5° image where this is the case.

This document contains a site location map with VVM locations plotted, and all reference information, including photography, modelling, topographic, post-production, formatting, viewpoint and viewing instructions.

Photography and GPS/GNSS Data

At the agreed locations, high-quality photography is captured in RAW format using either a Canon 5D Mark II or Canon 6D Mark II Full Frame Sensor camera. A Manfrotto tripod and panoramic head and leveller are used to ensure the photography is taken level and at consistent angles to ensure consistent overlapping.

Viewpoint locations are captured by inhouse trained personnel using a survey-grade GNSS unit and made compatible with the GIS referenced drawings of the proposed development. Where deemed necessary, the camera location is paint-marked and photographed and subsequently surveyed by a qualified topographical surveyor. In these circumstances, surveyors are given the photograph locations, together with marked-up photography that shows elements in the view (parapet heights, kerbing, lamp posts, etc.) that are to be surveyed as control points for model alignment within the panorama.

TGN 06/19 advocates the use of a 50mm prime lens as the industry standard, and this is the default approach adopted. In urban contexts, where a 50mm lens cannot fully capture the proposed development, the guidance accepts the use of alternative fixed-length prime lenses (Appendix 11, P.28). This approach is adopted dependent on the proximity of the development.

Following the site visit, RAW images are processed via Adobe Lightroom and panoramas are stitched and generated using the recommended industry standard software, PTGui Pro.

Where appropriate, colour palettes and material references provided by the client design team are applied to the model to provide a real-world representation. To ensure a high degree of accuracy, images of the development are generated from 3DS Max 2023 with identical image characteristics to that of the baseline photography, including reference to the date and time of capture.

Post Production and Formatting

Post-production, the rendered image is taken into Adobe Photoshop where it is 'masked' into the existing captured panorama. This essentially involves ensuring that anything in the foreground of the proposals is brought in front of the rendered image.

Adjustments are made as required to ensure that the lighting, reflections, and material characteristics of each render are accurate to the time and date of the photography and that the images meet GDPR standards (via blurring faces and car registrations, etc.).

Proposed mitigation is added where indicated via a Landscape Mitigation Plan.

For each viewpoint location, a 90° Horizontal Field of View (HFOV) cylindrical baseline photograph is provided to allow a 96% enlargement contextual reference. Image enlargement of 150% is recommended in the guidance (where feasible) to allow for binocular image scaling when printed, which results in an image with a 53.5° HFOV. Where this is not feasible because of proximity or infrastructure occupying a wide field of view well beyond 53.5° that would necessitate splitting the view across multiple images, 90° HFOV cylindrical images are presented to avoid confusion for the viewer. A bounding box illustrates the extent of a 53.5° image where this is the case.

This document contains a site location map with VVM locations plotted, and all reference information, including photography, modelling, topographic, post-production, formatting, viewpoint and viewing instructions.

3D Modelling and VVM Creation

The proposed development is accurately modelled into a 3D environment in GIS mapping software and 3DS Max 2023 using a combination of data sources (REVIT files, AutoCAD drawings, DTMs/DMs etc.) received from the project architects and engineers.

Virtual 3D cameras are positioned according to the survey coordinates, and the focal lengths is set to match the captured photography.

For rural projects, the visualisation preparation methodology recommended in the Scottish Rural Heritage 2017 'Visual Representation of Wind Farms' is strictly followed. This involves the creation of 360° wirelines using GIS software, which perfectly match the generated panorama as and 3DS Max refers to each viewpoint. This allows for the development to be accurately placed within the captured photography.

For urban projects, camera matching or photographic alignment is method by which a combination of data is used to produce an accurate camera match for each view. Virtual 3D cameras are positioned and the captured photography is then placed into the background of the 3DS Max Viewpoint. The surveyed information is then matched to the existing buildings in the photography.

Where appropriate, colour palettes and material references provided by the client design team are applied to the model to provide a real-world representation. To ensure a high degree of accuracy, images of the development are generated from 3DS Max 2023 with identical image characteristics to that of the baseline photography, including reference to the date and time of capture.

Image Presentation

The objective of Type 4 visualisation is to present a printed image which gives a realistic impression of scale and detail.

VVMs are presented in accordance with the TGN 06/19 guidance, and final views are formatted into a booklet using Adobe InDesign, with all accompanying information relating to the photography, modelling, topography, post-production and viewpoints included.

90° Baseline View



Stocking Avenue LRD - Landscape and Visual Impact Assessment

Viewpoint Ref: VP1a View from Stocking Wood park at Woodtown (approximately 156m)

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/19 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM):

712184

Northing (ITM):

725991

Principal Distance:

522 mm

Direction of View:

145°

Paper size:

841 x 297 mm

Distance to Site:

144.3 km

Correct printed image size:

820 x 251 mm

Panoramic Head:

Manfrotto Pano Head/Leveller

Elevation:

99.5 m

Enlargement Factor:

96%

Horizontal Field of View: 90° (cylindrical projection)

Date and Time:

20/11/2024 13:27

Photography Software:

Adobe Lightroom

Camera:

Canon 5D Mark II Digital SLR

Lens:

Canon Fixed 50mm Full Frame Sensor

Post-Production Software:

PTGui Pro

Adobe Photoshop

Formatting Software:

Adobe Illustrator/InDesign

Modeling Software:

3D Max 2023

Rendering Software:

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

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Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

Topographical Data:

iLiDAR/TerrainData

GPS Ref:

Georeferenced/Surveyed DWG

3D Max 2023

90° Outline View
indicating physical position and scale of the
proposed development irrespective of screening



Stocking Avenue LRD - Landscape and Visual Impact Assessment

Viewpoint Ref: VP1a View from Stocking Wood park at Woodtown (approximately 156m)

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/19 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

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90° Photomontage



Stocking Avenue LRD - Landscape and Visual Impact Assessment

View from Stocking Wood park at Woodtown (approximately 156m)

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/19 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

20/11/2024 13:27
Canon 5D Mark II Digital SLR
n Fixed 50mm Full Frame Sensor
Manfrotto Pano Head/Leveller
1.7m (AGL)

Photography Software:	Adobe Lightroom
Panorama Stitching Software:	Autodesk PhotoScan
Post-Production Software:	Adobe Photoshop
Formatting Software:	Adobe InDesign

be Lightroom
PTGui Pro
be Photoshop
ator/InDesign

elling Software:	3DS Max 2023
lering Software:	Mental Ray/Corona
5 Unit:	Trimble Catalyst (GNSS)
graphical Data:	LiDAR/OSI Terrain Data
Ref:	Georeferenced/Surveyed DWGS



Stocking Avenue LRD - Landscape and Visual Impact Assessment

Viewpoint Ref: VP1b View from Stocking Wood park at Woodtown (approximately 156m)

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/19 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 712184
Northing (ITM): 725991
Principal Distance: 522 mm
Direction of View: 229 °
Paper size: 841 x 297 mm
Distance to Site: 144.3 km
Correct printed image size: 820 x 251 mm
Panoramic Head: Manfrotto Pano Head/Leveller
Elevation: 99.5 m

Horizontal Field of View: 90° (cylindrical projection)
Date and Time: 20/11/2024 13:27
Principal Distance: 522 mm
Direction of View: 229 °
Paper size: 841 x 297 mm
Distance to Site: 144.3 km
Correct printed image size: 820 x 251 mm
Panoramic Head: Manfrotto Pano Head/Leveller
Elevation: 99.5 m
Enlargement Factor: 96%

Photography Software: Adobe Lightroom
Panorama Stitching Software: PTGui Pro
Post-Production Software: Adobe Photoshop
Formatting Software: Adobe Illustrator/InDesign

Modeling Software: 3D Max 2023
Rendering Software: Mental Ray/Corona
GNSS Unit: Trimble Catalyst (GNSS)
Topographical Data: iLiDAR/3D Terrain Data
GPS Ref: Georeferenced/Surveyed DW/GS

90° Outline View
indicating physical position and scale of the proposed development irrespective of screening



Stocking Avenue LRD - Landscape and Visual Impact Assessment

Viewpoint Ref: VP1b View from Stocking Wood park at Woodtown (approximately 156m)

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/19 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 712184 Northing (ITM): 725991 Principal Distance: 522 mm

Direction of View: 229° Paper size: 841 x 297 mm

Distance to Site: 144.3 km Correct printed image size: 820 x 251 mm

Panoramic Head: Manfrotto Pano Head/Leveller Elevation: 99.5 m Enlargement Factor: 96%

Date and Time: 20/11/2024 13:27

Photography Software: Adobe Lightroom Camera: Canon 5D Mark II Digital SLR

Panorama Stitching Software: PTGui Pro Lens: Canon Fixed 50mm Full Frame Sensor

Post-Production Software: Adobe Photoshop

Formatting Software: Adobe Illustrator/InDesign

Modeling Software: 3D Max 2023

Rendering Software: Mental Ray/Corona

GNSS Unit: Trimble Catalyst (GNSS)

Topographical Data: LiDAR/Terrain Data

GPS Ref: Georeferenced/Surveyed DW/GS

90° Baseline View



Stocking Avenue LRD - Landscape and Visual Impact Assessment

Viewpoint Ref: VP2 View from local road (Abbots Grove Park) at Ballycullen (approximately 48m)

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/19 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

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90° Outline View
indicating physical position and scale of the proposed development irrespective of screening



Stocking Avenue LRD - Landscape and Visual Impact Assessment

Viewpoint Ref: VP2 View from local road (Abbots Grove Park) at Ballycullen (approximately 48m)

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/19 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 711632
Northing (ITM): 725695
Principal Distance: 522 mm
Direction of View: 79°
Paper size: 841 x 297 mm
Distance to Site: 38.4 km
Correct printed image size: 820 x 251 mm
Panoramic Head: Manfrotto Pano Head/Leveller
Elevation: 108.9 m
Horizontal Field of View: 90° (cylindrical projection)

Date and Time: 20/11/2024 12:29
Camera: Canon 5D Mark II Digital SLR
Lens: Canon Fixed 50mm Full Frame Sensor
Panoramic Head: Manfrotto Pano Head/Leveller
Elevation: 1.7m (AGL)

Photography Software: Adobe Lightroom

Panorama Stitching Software: PTGui Pro

Post-Production Software: Adobe Photoshop

Formatting Software: Adobe Illustrator/InDesign

Modeling Software: 3D Max 2023
Rendering Software: Mental Ray/Corona
GIS Unit: Trimble Catalyst (GNSS)
Topographical Data: LiDAR/Terrain Data
GPS Ref: Georeferenced/Surveyed DW/GS





Stocking Avenue LRD - Landscape and Visual Impact Assessment

Viewpoint Ref: VP2 View from local road (Abbots Grove Park) at Ballycullen (approximately 48m)

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/19 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM):

711632

Northing (ITM):

725695

Horizontal Field of View: 90° (cylindrical projection)

522 mm

Principal Distance:

841 x 297 mm

Direction of View:

79 °

Paper size:

38.4 km

Distance to Site:

820 x 251 mm

Correct printed image size:

96%

Elevation:

108.9 m

Enlargement Factor:

1.7m (AGL)

Date and Time:

20/11/2024 12:29

Photography Software:

Adobe Lightroom

Panorama Stitching Software:

PTGui Pro

Post-Production Software:

Adobe Photoshop

Panoramic Head:

Manfrotto Pano Head/Leveller

Formatting Software:

Adobe Illustrator/InDesign

Topographical Data:

iLiDA/Ordnance Survey Digital Terrain Model

GPS Ref:

3D Max 02

Modeling Software:

Maya/Corona

Rendering Software:

Arnold/Catalyst (NIS)

GIS Unit:

iLiDA/Ordnance Survey Digital Terrain Model

Tooleptic Data:

Georeferenced Survey DWG

3D Model:

3D Max 02

3D Model:

Maya/Corona

3D Model:

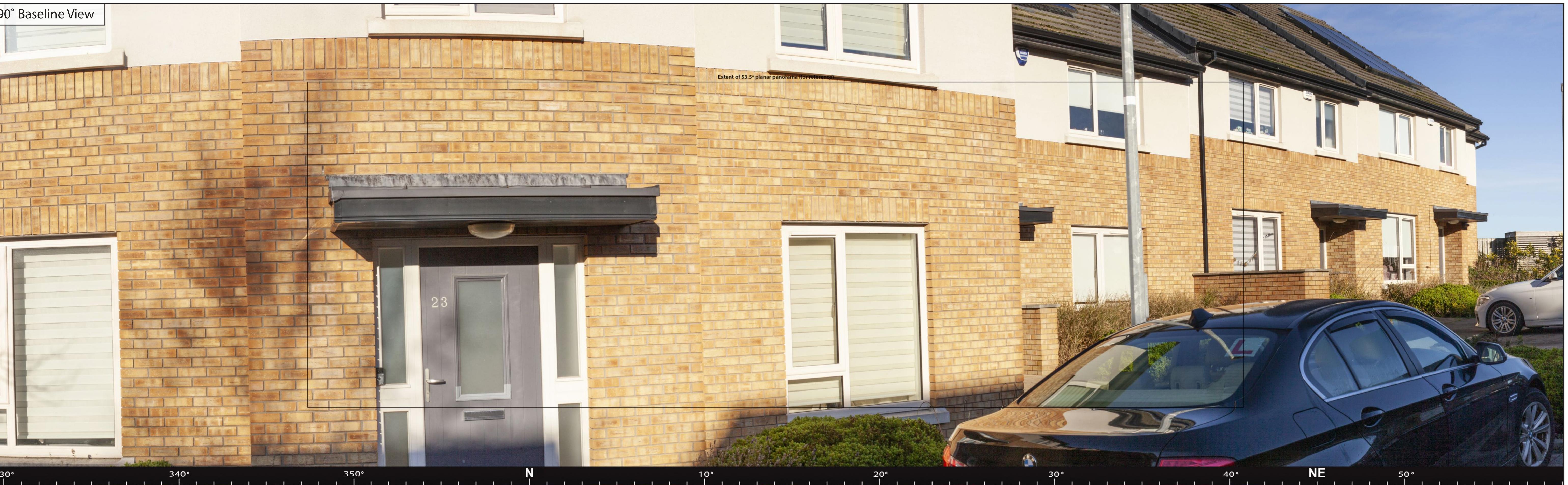
Arnold/Catalyst (NIS)

3D Model:

Georeferenced Survey DWG

1

90° Baseline View



Stocking Avenue LRD - Landscape and Visual Impact Assessment

Viewpoint Ref: VP3a View from local road (Abbots Grove Park) at Oldcourt (approximately 45m)

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/19 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM):

711681

Northing (ITM):

725620

Principal Distance:

522 mm

Direction of View:

14°

Paper size:

841 x 297 mm

Correct printed image size:

820 x 251 mm

Elevation:

38.4 km

Enlargement Factor:

96%

Horizontal Field of View: 90° (cylindrical projection)

116.1 m

Date and Time:

20/11/2024 12:41

Photography Software:

Adobe Lightroom

Camera:

Canon 5D Mark II Digital SLR

Panorama Stitching Software:

PTGui Pro

Lens:

Canon Fixed 50mm Full Frame Sensor

Post-Production Software:

Adobe Photoshop

Panoramic Head:

Manfrotto Pano Head/Leveller

Formatting Software:

Adobe Illustrator/InDesign

Elevation:

1.7m (AGL)

Date and Time:

20/11/2024 12:41

Photography Software:

Adobe Lightroom

Camera:

Canon 5D Mark II Digital SLR

Panorama Stitching Software:

PTGui Pro

Lens:

Canon Fixed 50mm Full Frame Sensor

Post-Production Software:

Adobe Photoshop

Panoramic Head:

Manfrotto Pano Head/Leveller

Formatting Software:

Adobe Illustrator/InDesign

Elevation:

1.7m (AGL)

Date and Time:

20/11/2024 12:41

Photography Software:

Adobe Lightroom

Camera:

Canon 5D Mark II Digital SLR

Panorama Stitching Software:

PTGui Pro

Lens:

Canon Fixed 50mm Full Frame Sensor

Post-Production Software:

Adobe Photoshop

Panoramic Head:

Manfrotto Pano Head/Leveller

Formatting Software:

Adobe Illustrator/InDesign

Elevation:

1.7m (AGL)

Date and Time:

20/11/2024 12:41

Photography Software:

Adobe Lightroom

Camera:

Canon 5D Mark II Digital SLR

Panorama Stitching Software:

PTGui Pro

Lens:

Canon Fixed 50mm Full Frame Sensor

Post-Production Software:

Adobe Photoshop

Panoramic Head:

Manfrotto Pano Head/Leveller

Formatting Software:

Adobe Illustrator/InDesign

Elevation:

1.7m (AGL)

Date and Time:

20/11/2024 12:41

Photography Software:

Adobe Lightroom

Camera:

Canon 5D Mark II Digital SLR

Panorama Stitching Software:

PTGui Pro

Lens:

Canon Fixed 50mm Full Frame Sensor

Post-Production Software:

Adobe Photoshop

Panoramic Head:

Manfrotto Pano Head/Leveller

Formatting Software:

Adobe Illustrator/InDesign

Elevation:

1.7m (AGL)

Date and Time:

20/11/2024 12:41

Photography Software:

Adobe Lightroom

Camera:

Canon 5D Mark II Digital SLR

Panorama Stitching Software:

PTGui Pro

Lens:

Canon Fixed 50mm Full Frame Sensor

Post-Production Software:

Adobe Photoshop

Panoramic Head:

Manfrotto Pano Head/Leveller

Formatting Software:

Adobe Illustrator/InDesign

Elevation:

1.7m (AGL)

90° Outline View

ndicating physical position and scale of the proposed development irrespective of screening



cking Avenue LRD - Landscape and Visual Impact Assessment

View from local road (Abbots Grove Park) at Oldcourt (approximately 45m)

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/19 for Type 4 Visualisations and the Scottish Natural Heritage guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

711681	Horizontal Field of View: 90° (cylindrical projection)	Date and Time:	20/11/2024	12:41	Phot
725620	Principal Distance: 522 mm	Camera:	Canon 5D Mark II Digital SLR		
14 °	Paper size: 841 x 297 mm	Lens:	Canon Fixed 50mm Full Frame Sensor		
38.4 km	Correct printed image size: 820 x 251 mm	Panoramic Head:	Manfrotto Pano Head/Leveller		
116.1 m	Enlargement Factor: 96%	Camera Height:	1.7m (AGL)		

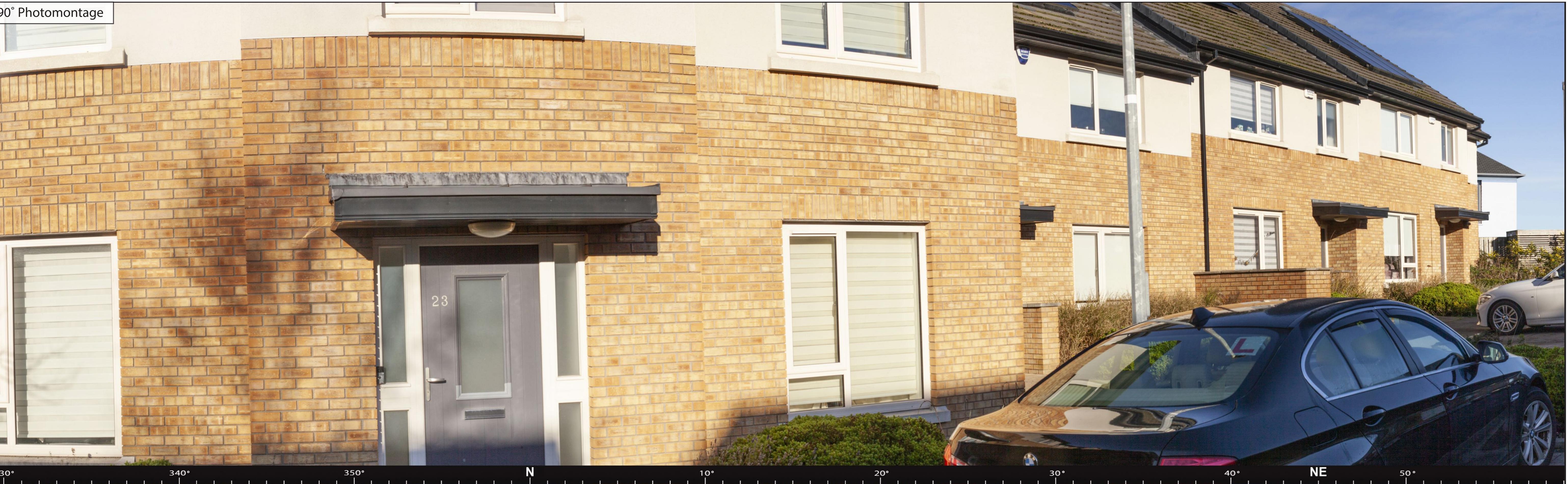
phy Software:	Adobe Light
Stitching Software:	PTC
uction Software:	Adobe Photo
g Software:	Adobe Illustrator/In

m
ro
p
n

Modeling Software:	3DS Max 2023
Rendering Software:	Mental Ray/Corona
Unit:	Trimble Catalyst (GNSS)
Graphical Data:	LiDAR/OSI Terrain Data
Ref:	Georeferenced/Surveyed DWGS



90° Photomontage



Stocking Avenue LRD - Landscape and Visual Impact Assessment

Viewpoint Ref: VP3a View from local road (Abbots Grove Park) at Oldcourt (approximately 45m)

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/19 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

N

330°

340°

350°

10°

20°

30°

40°

NE

50°

Easting (ITM):

711681

Northing (ITM):

725620

Principal Distance:

522 mm

Direction of View:

14°

Paper size:

841 x 297 mm

Distance to Site:

38.4 km

Correct printed image size:

820 x 251 mm

Elevation:

116.1 m

Horizontal Field of View: 90° (cylindrical projection)

Principal Distance:

522 mm

Direction of View:

14°

Paper size:

841 x 297 mm

Distance to Site:

38.4 km

Correct printed image size:

820 x 251 mm

Enlargement Factor:

96%

Date and Time:

20/11/2024

12:41

Camera:

Canon 5D Mark II Digital SLR

Lens:

Canon Fixed 50mm Full Frame Sensor

Panoramic Head:

Manfrotto Pano Head/Leveller

Elevation:

1.7m (AGL)

Photography Software:

Adobe Lightroom

Panorama Stitching Software:

PTGui Pro

Post-Production Software:

Adobe Photoshop

Formatting Software:

Adobe Illustrator/InDesign

Modeling Software:

3D Max 2023

Rendering Software:

MeleRay/Corona

GNSS Unit:

Trimble Catalyst (GNSS)

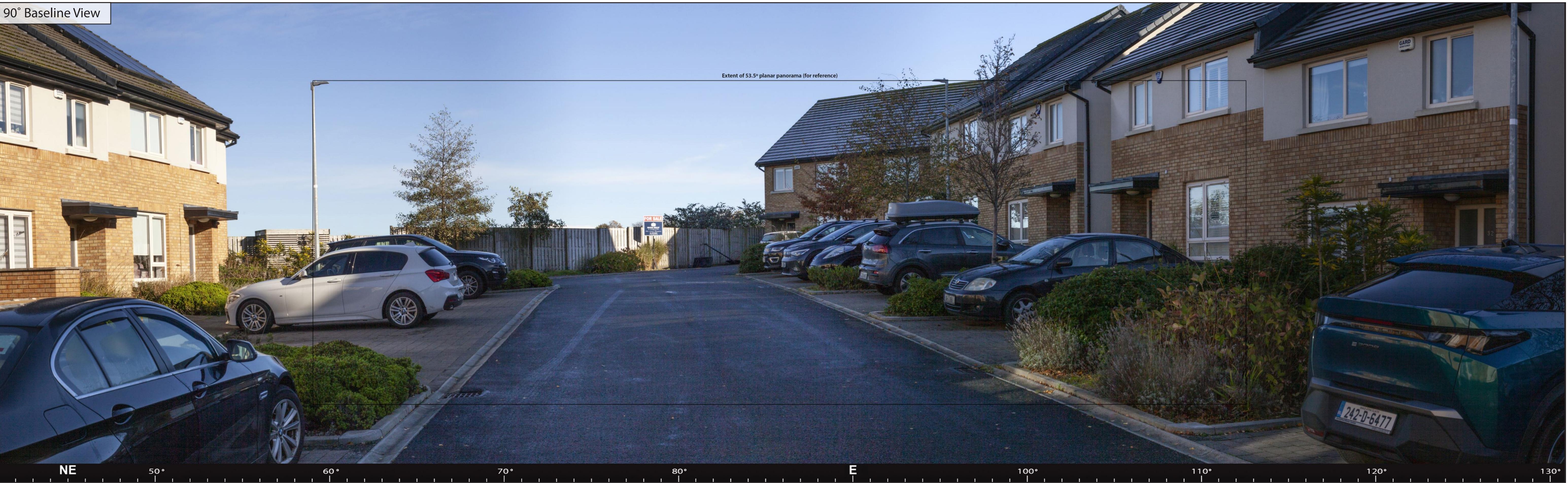
Topographical Data:

iLiDAR/Terrain Data

GPS Ref:

Georeferenced/Surveyed DWG

90° Baseline View



Stocking Avenue LRD - Landscape and Visual Impact Assessment

Viewpoint Ref: VP3b View from local road (Abbots Grove Park) at Oldcourt (approximately 45m)

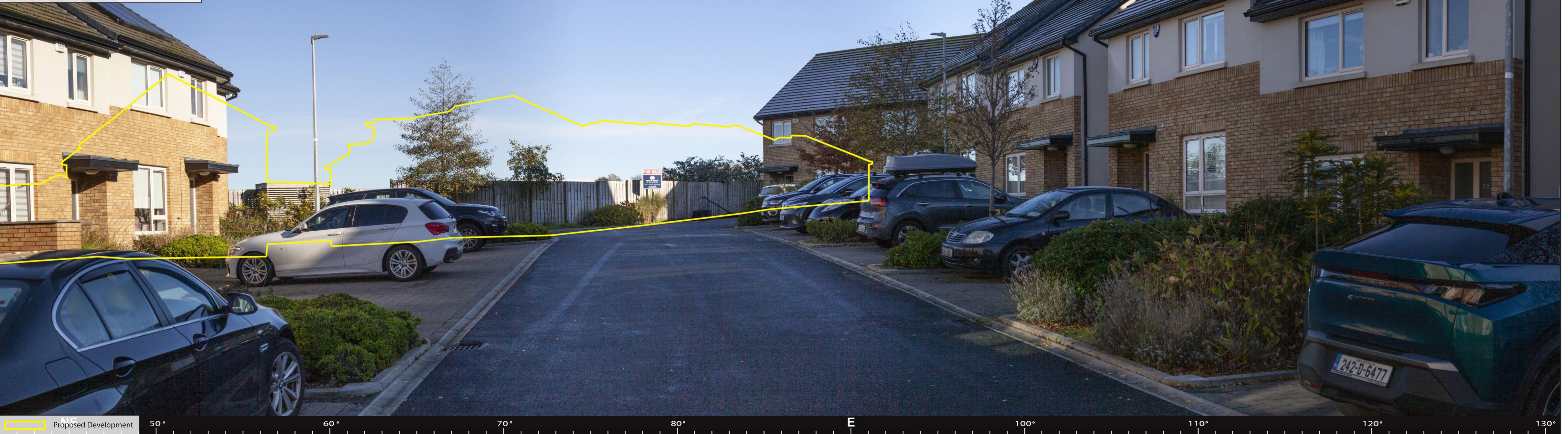
Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/19 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 711681 Horizontal Field of View: 90° (cylindrical projection)
Northing (ITM): 725620 Principal Distance: 522 mm
Direction of View: 86° Paper size: 841 x 297 mm
Distance to Site: 38.4 km Correct printed image size: 820 x 251 mm
Elevation: 116.1 m Enlargement Factor: 96%
Date and Time: 20/11/2024 12:41
Camera: Canon 5D Mark II Digital SLR
Lens: Canon Fixed 50mm Full Frame Sensor
Panoramic Head: Manfrotto Pano Head/Leveller
Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
Panorama Stitching Software: PTGui Pro
Post-Production Software: Adobe Photoshop
Formatting Software: Adobe Illustrator/InDesign

Modeling Software: 3DS Max 2023
Rendering Software: Mental Ray/Corona
GIS Unit: Trimble Catalyst (GNSS)
Topographical Data: LiDAR/Terrain Data
GPS Ref: Georeferenced/Surveyed DWG

90° Outline View
indicating physical position and scale of the proposed development irrespective of screening



Stocking Avenue LRD - Landscape and Visual Impact Assessment

Viewpoint Ref: VP3b View from local road (Abbots Grove Park) at Oldcourt (approximately 45m)

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/19 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 711681 Horizontal Field of View: 90° (cylindrical projection)
Northing (ITM): 725620 Principal Distance: 522 mm
Direction of View: 86° Paper size: 841 x 297 mm
Distance to Site: 38.4 km Correct printed image size: 820 x 251 mm
Elevation: 116.1 m Enlargement Factor: 96%
Date and Time: 20/11/2024 12:41
Camera: Canon 5D Mark II Digital SLR
Lens: Canon Fixed 50mm Full Frame Sensor
Panoramic Head: Manfrotto Pano Head/Leveller
Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
Panorama Stitching Software: PTGui Pro
Post-Production Software: Adobe Photoshop
Formatting Software: Adobe Illustrator/InDesign

Modeling Software: 3DS Max 2023
Rendering Software: Mental Ray/Corona
GIS Unit: Trimble Catalyst (GNSS)
Topographical Data: LiDAR/Terrain Data
GPS Ref: Georeferenced/Surveyed DWG

90° Photomontage



Stocking Avenue LRD - Landscape and Visual Impact Assessment

Viewpoint Ref: VP3b View from local road (Abbots Grove Park) at Oldcourt (approximately 45m)

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/19 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM):	711681	Horizontal Field of View: 90° (cylindrical projection)	Date and Time:	20/11/2024 12:41	Photography Software:	Adobe Lightroom	Modeling Software:	3DS Max 2023
Northing (ITM):	725620	Principal Distance: 522 mm	Camera:	Canon 5D Mark II Digital SLR	Panorama Stitching Software:	PTGui Pro	Rendering Software:	MeleRay/Corona
Direction of View:	86°	Paper size: 841 x 297 mm	Lens:	Canon Fixed 50mm Full Frame Sensor	Post-Production Software:	Adobe Photoshop	GNSS Unit:	Trimble Catalyst (GNSS)
Distance to Site:	38.4 km	Correct printed image size: 820 x 251 mm	Panoramic Head:	Manfrotto Pano Head/Leveller	Formatting Software:	Adobe Illustrator/InDesign	Tooleographical Data:	iLDA/TerrainData
Elevation:	116.1 m	Enlargement Factor: 96%	Camera Height:	1.7m (AGL)	GPS Ref:	Georeferenced/Surveyed DWG	3D Model:	3DS Max 2023