



Revised Larbrax Wind Farm

Environmental Impact Assessment Report (EIA Report)

Volume 3c: Landscape and Visual Impact Assessment Visualisations (Part 2)
and Cultural Heritage Visualisations



December 2024



Revised Larbrax Wind Farm

Environmental Impact Assessment (EIA) Report

Volume 3c: Landscape and Visual Impact Assessment Visualisations (Part 2) and Cultural Heritage Visualisations

Prepared by LUC

on behalf of

Orsted Onshore UK Limited

December 2024



Preface

This Environmental Impact Assessment (EIA) Report has been prepared in support of an application by Orsted Onshore UK Limited ('the Applicant') to Dumfries and Galloway Council (DGC) under the Town and Country Planning (Scotland) Act 1997 as amended ('the Act') to construct and operate the Revised Larbrax Wind Farm ('the Proposed Development'). The Proposed Development is located approximately 9 kilometres (km) west of Stranraer within the DGC administrative area. The Proposed Development will comprise up to four wind turbines with battery storage and other ancillary infrastructure.

The EIA Report comprises the following volumes:

- Volume 1: Non-Technical Summary;
- Volume 2: Main Report;
- Volume 3a: Figures;
- Volume 3b: Landscape and Visual Impact Assessment Visualisations (Part 1);
- Volume 3c: Landscape and Visual Impact Assessment Visualisations (Part 2) and Cultural Heritage Visualisations (this volume);
- Volume 4: Technical Appendices; and
- Volume 5: Confidential Documents.

In addition to the above, the application is supported by a standalone Planning Statement, a Pre-Application Consultation (PAC) Report and a Design and Access Statement.

A hard copy of the EIA Report and supporting documents will be available for public viewing during the application consultation period at the following address:

Dumfries and Galloway Council

Planning and Development

Economy and Infrastructure

Militia House

English Street

Dumfries

DG1 2HS

A hard copy of the EIA Report and supporting documents alone is available for £500 and can be requested via the following email address: larbrax@orsted.com.

An electronic version of the EIA Report and supporting documents will be available to download from the project website at www.larbraxwindfarm.co.uk and the DGC planning portal: <https://eaccess.dumgal.gov.uk/online-applications/>.

Any public representations to the application may be submitted via the DGC planning portal at <https://eaccess.dumgal.gov.uk/online-applications/> or by email to planningrepresentations@dumgal.gov.uk, identifying the proposal and specifying the grounds for representation. DGC will advertise the submission of the EIA Report in local and national press and the DGC planning portal. The advert will state the deadline for submitting representations to the DGC in relation to the planning application.

Volume 3c: Landscape and Visual Impact Assessment Visualisations (Part 2) and Cultural Heritage Visualisations

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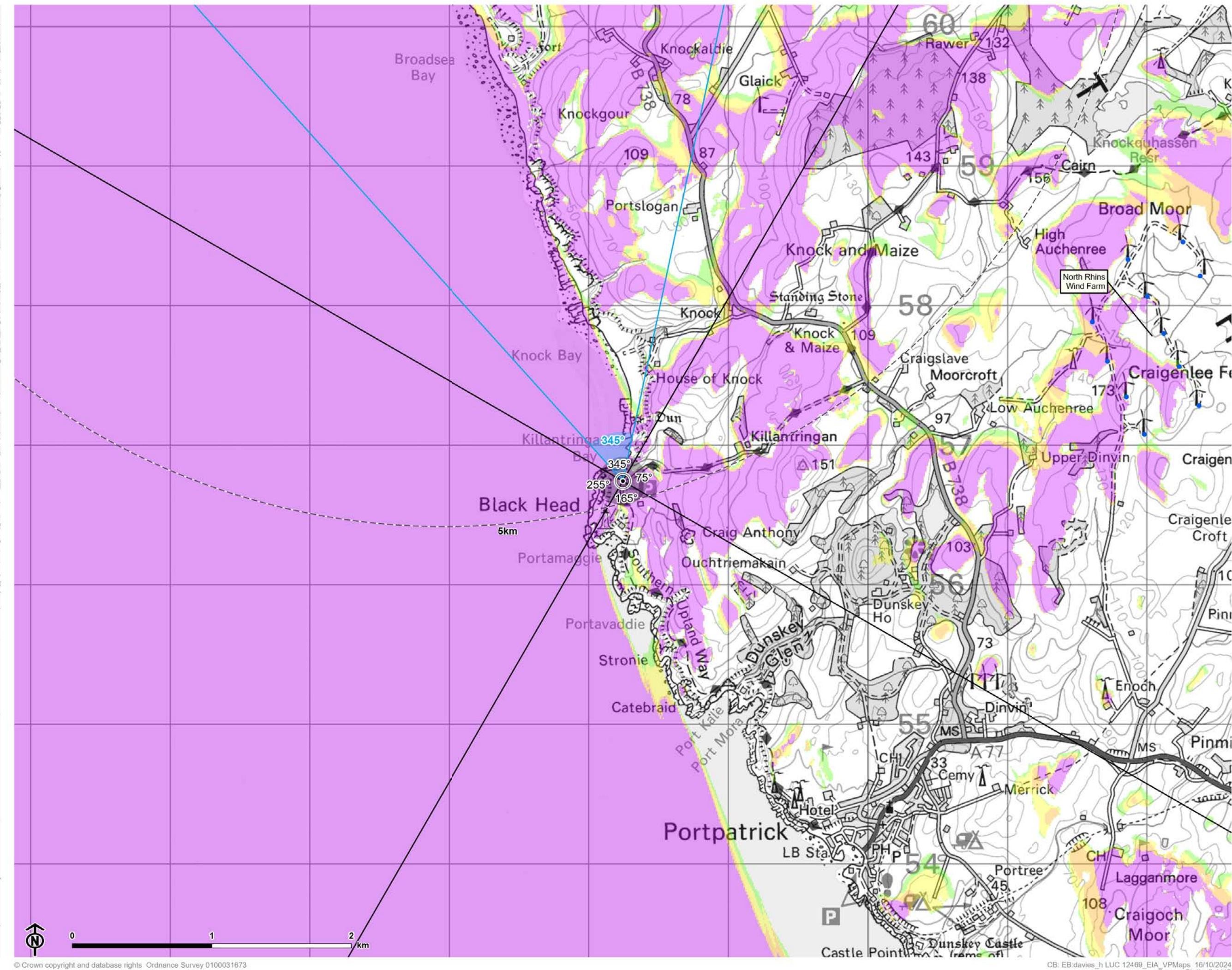
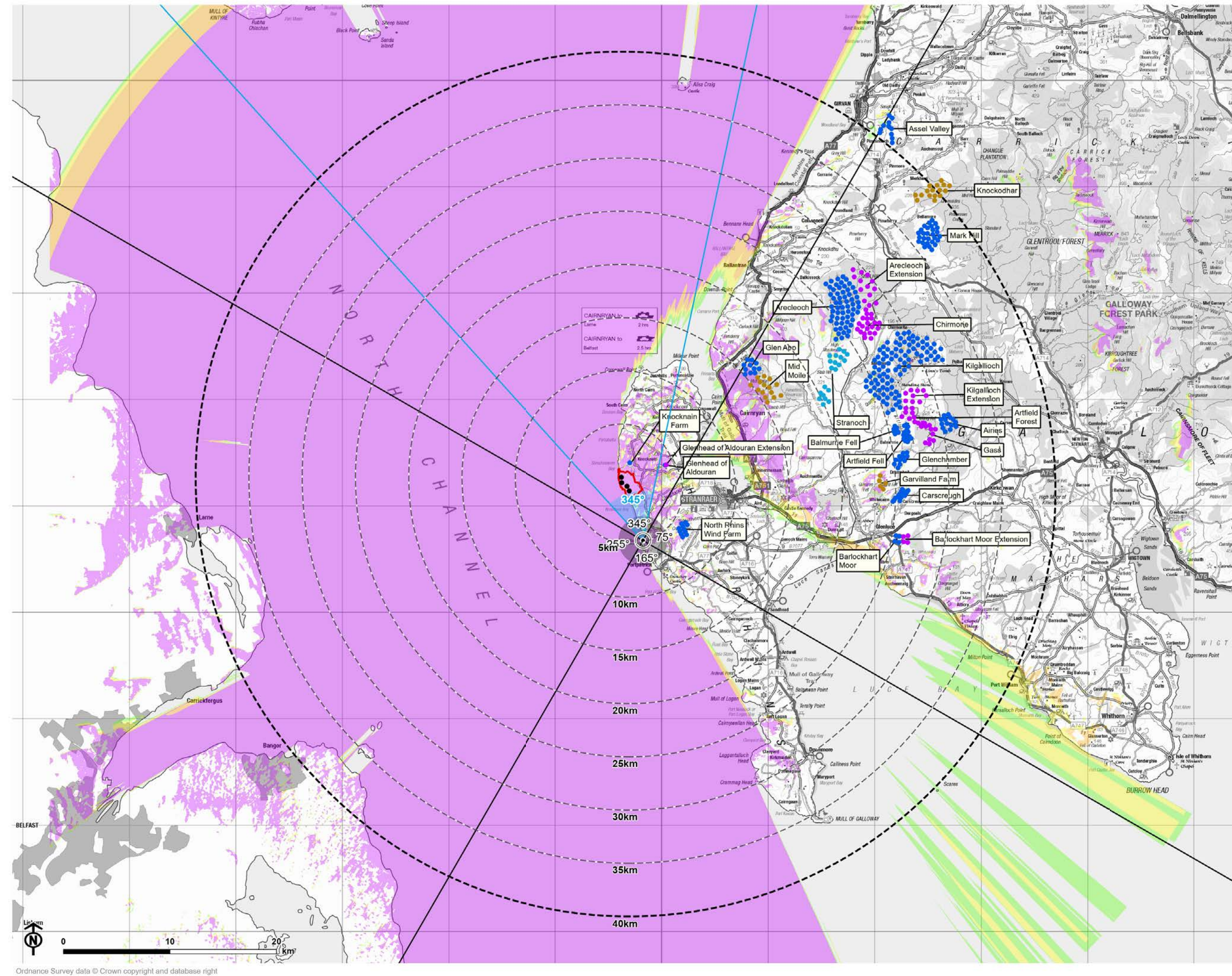


Figure: 5.2.11
Viewpoint 11: Parking Area near Killantringan Lighthouse

- Site boundary
- Turbine
- 5km intervals from outermost turbines
- 40km LVIA study area from outermost turbines
- Viewpoint location
- Zone of Theoretical Visibility**
 - 1 turbine visible
 - 2 turbines visible
 - 3 turbines visible
 - 4 turbines visible
- Wind farm layout (by status)**
 - Operational
 - Under Construction
 - Consented
 - Application Submitted
 - 53.5° field of view
 - 90° field of view

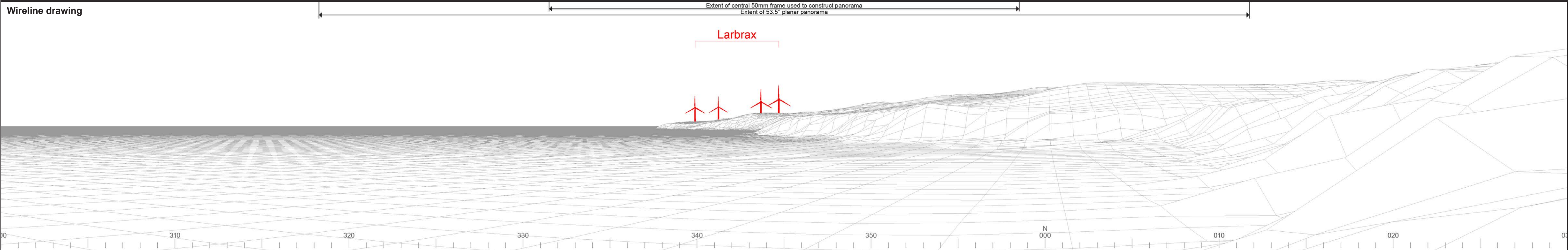
Notes:
With the exception of Glenhead of Aldouran (and its extension), turbines under 50m to tip have been excluded. Single turbine beyond 5km have been excluded. Scoping stage schemes have been excluded. Cumulative Wind Farm list fixed as of 28th May 2024.
The ZTV is calculated to individual turbine blade tip height (up to 149.9 m) from a viewing height of 2 m above ground level.
The terrain model assumes bare ground and is derived from OS Terrain 5 and OSNI 10m DTM height data.
Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcPro 3.2.0.



Baseline photograph

This image provides landscape and visual context only

Wireline drawing



Larbrax

Extent of central 50mm frame used to construct panorama
Extent of 53.5° planar panorama



OS reference: 198245E 556742N
AOD: 22.8 m
Direction of view: 345°
Nearest turbine: 4.8 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: NIKON D750
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Photography Date: 15/06/2023
Photography Time: 09:35

Wind Farm Developments key
(by status):

Proposed scheme
Operational
Under construction
Consented

Application

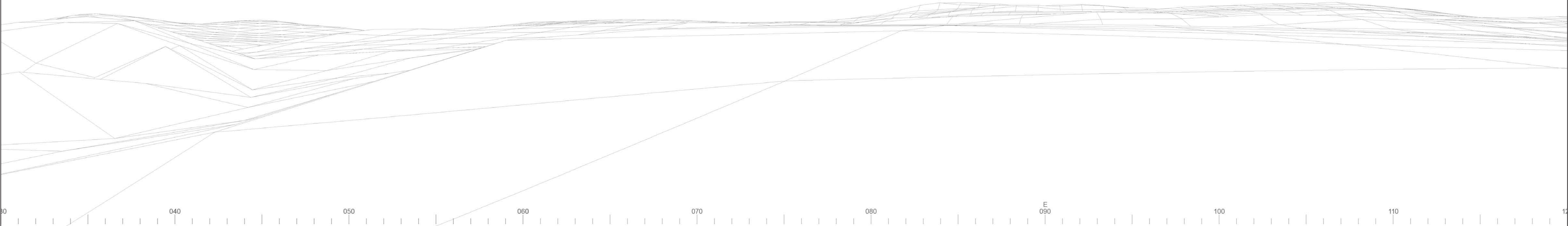
Larbrax Wind Farm
Figure: 5.2.11a
Viewpoint 11: Parking Area near Killantringan Lighthouse



Baseline photograph

This image provides landscape and visual context only

Wireline drawing



OS reference: 198245E 556742N
AOD: 22.8 m
Direction of view: 75°
Nearest turbine: 4.8 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: NIKON D750
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Photography Date: 15/06/2023
Photography Time: 09:35

Note:
No proposed or cumulative wind turbines
visible in the view

Wind Farm Developments key
(by status):

Proposed scheme
Operational
Under construction
Consented

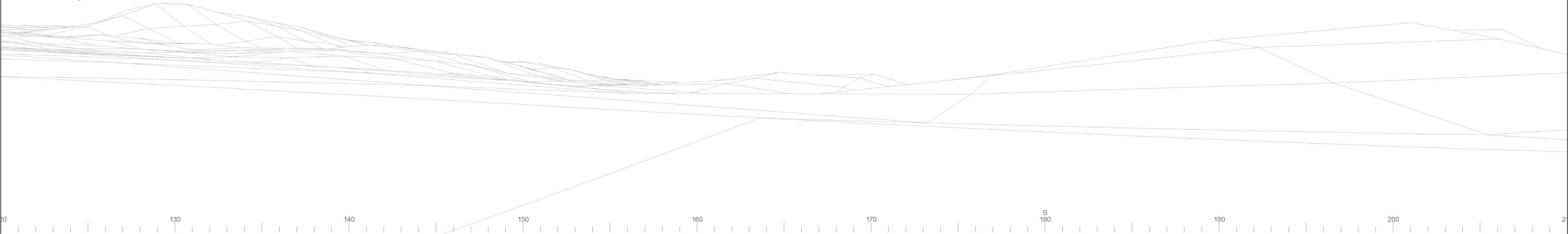
Application



Baseline photograph

This image provides landscape and visual context only

Wireline drawing



OS reference: 198245E 556742N
AOD: 22.8 m
Direction of view: 165°
Nearest turbine: 4.8 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: NIKON D750
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Photography Date: 15/06/2023
Photography Time: 09:35

Note:
No proposed or cumulative wind turbines
visible in the view

Wind Farm Developments key
(by status):

Proposed scheme
Operational
Under construction
Consented

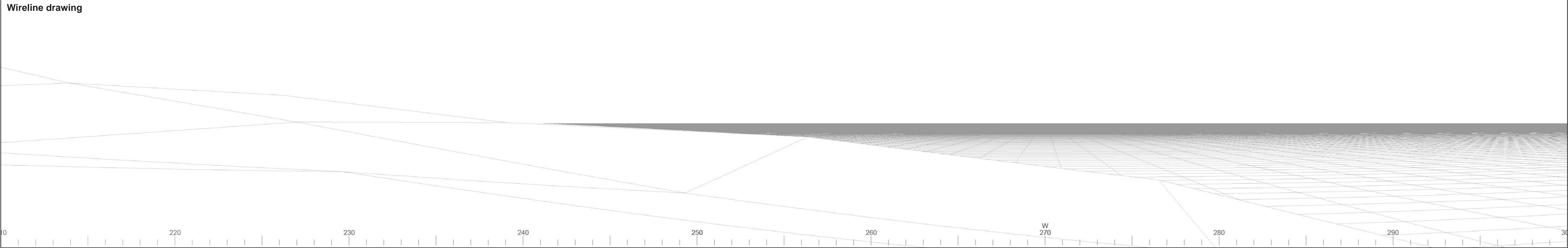
Application



Baseline photograph

This image provides landscape and visual context only

Wireline drawing



OS reference: 198245E 556742N
AOD: 22.8 m
Direction of view: 255°
Nearest turbine: 4.8 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: NIKON D750
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Photography Date: 15/06/2023
Photography Time: 09:35

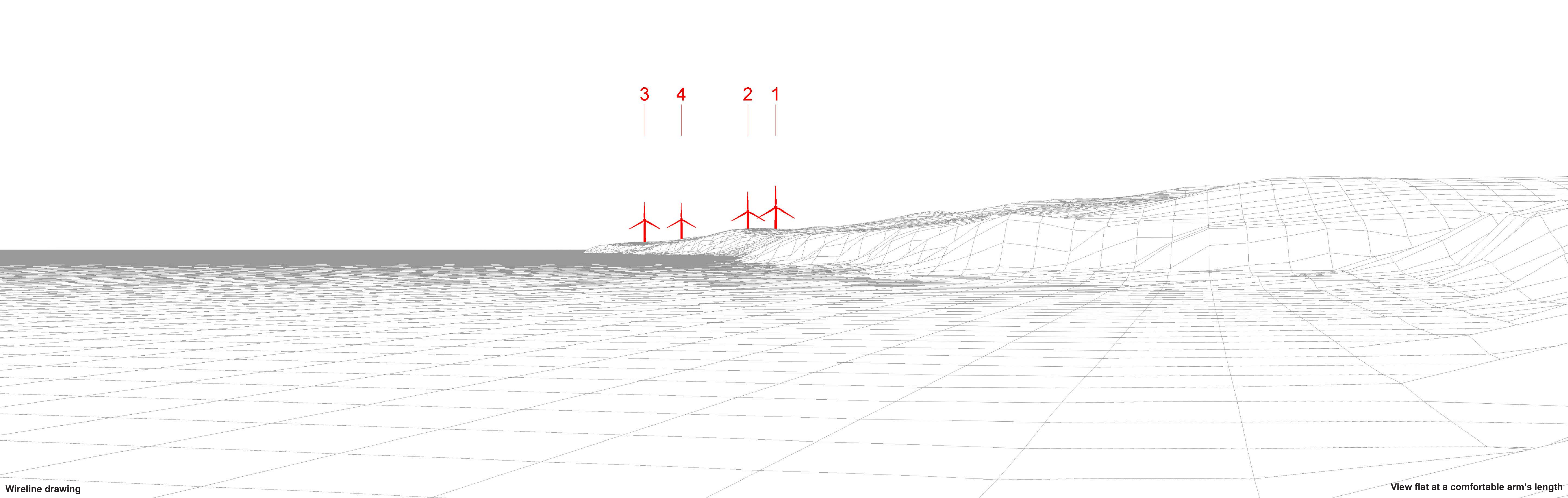
Note:
No proposed or cumulative wind turbines visible in the view

Wind Farm Developments key
(by status):

Proposed scheme
Operational
Under construction
Consented

Application

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Wireline drawing

View flat at a comfortable arm's length



OS reference:	198245E 556742N	Horizontal field of view:	53.5° (planar projection)
AOD:	22.8 m	Principal distance:	812.5 mm
Direction of view:	345°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	4.8 km	Correct printed image size:	820 x 260 mm

Wind Farm Developments key
(by status):

Proposed scheme
Operational

Larbrax Wind Farm
Figure: 5.2.11e
Viewpoint 11: Parking Area near Killantringan Lighthouse



Photomontage

View flat at a comfortable arm's length



OS reference: 198245E 556742N
AOD: 22.8 m
Direction of view: 345°
Nearest turbine: 4.8 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: NIKON D750
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Photography Date: 15/06/2023
Photography Time: 09:35

Note:
Visible infrastructure included in photomontage

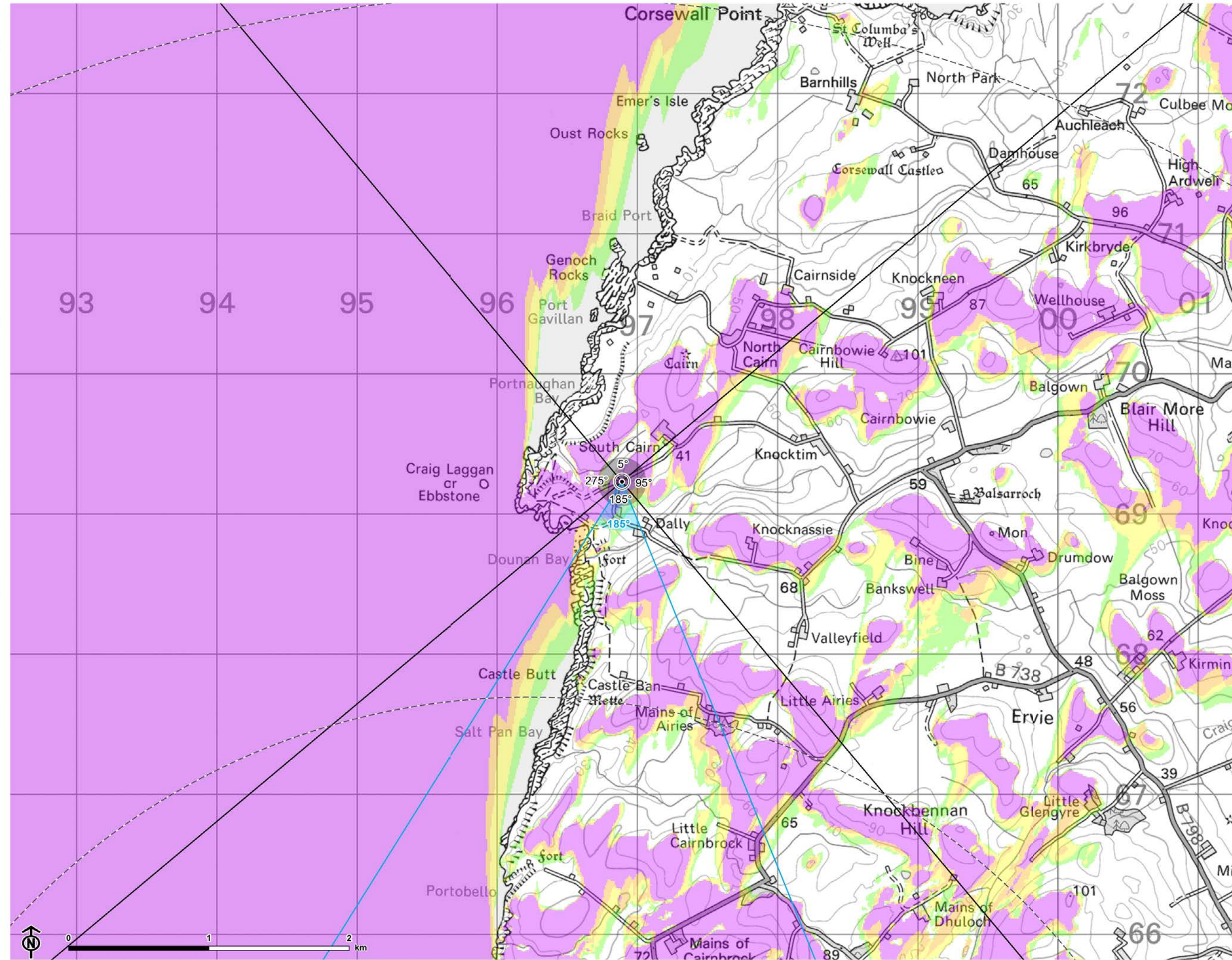
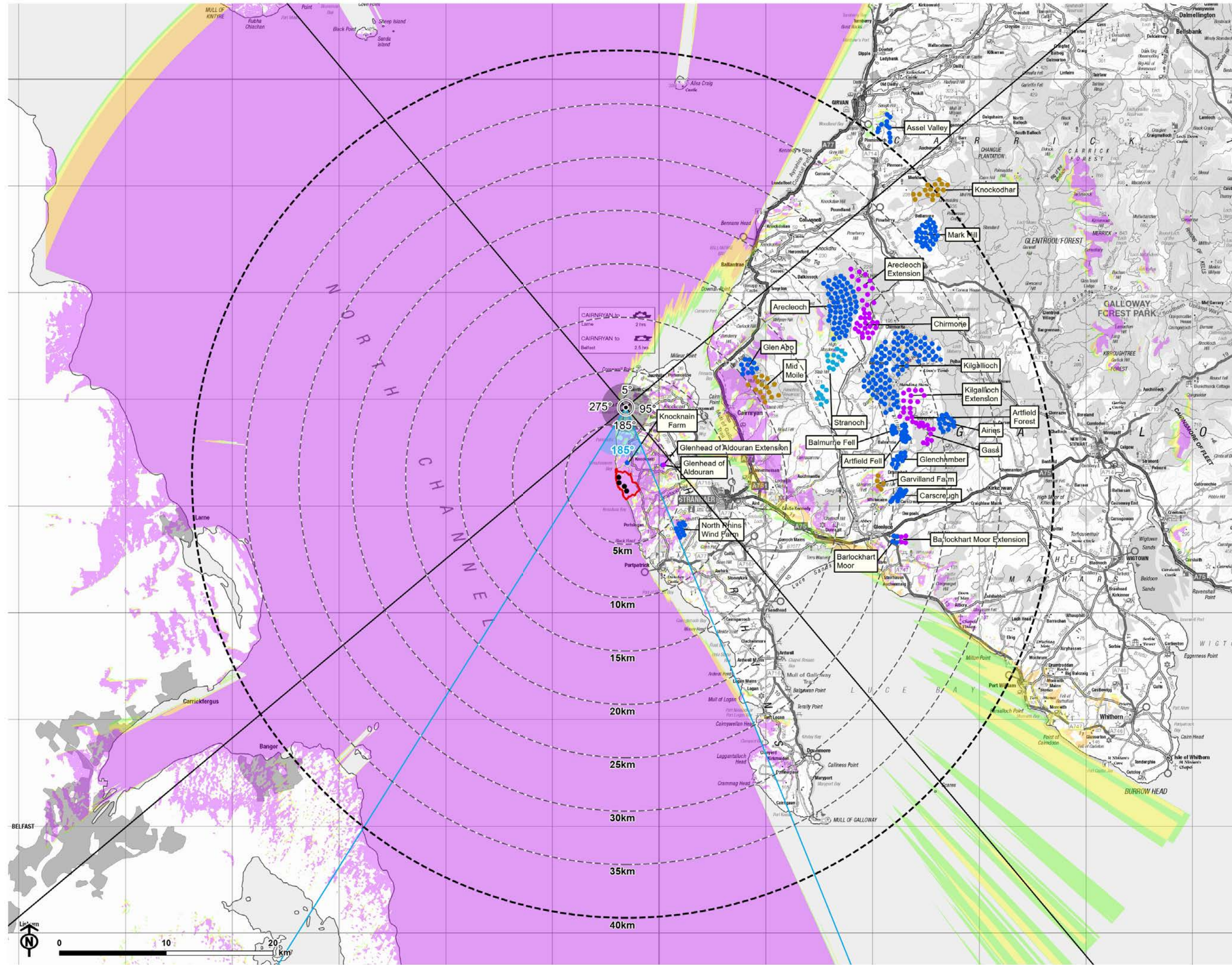
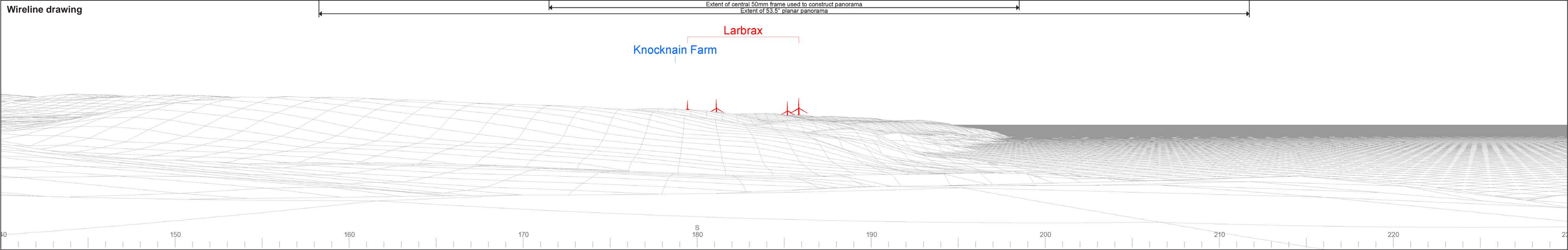


Figure: 5.2.12
Viewpoint 12: South Cairn

- Site boundary
- Turbine
- 5km intervals from outermost turbines
- 40km LVIA study area from outermost turbines
- Viewpoint location
- Zone of Theoretical Visibility**
 - 1 turbine visible
 - 2 turbines visible
 - 3 turbines visible
 - 4 turbines visible
- Wind farm layout (by status)**
 - Operational
 - Under Construction
 - Consented
 - Application Submitted
- 53.5° field of view
- 90° field of view

Notes:
With the exception of Glenhead of Aldouran (and its extension), turbines under 50m to tip have been excluded. Single turbine beyond 5km have been excluded. Scoping stage schemes have been excluded. Cumulative Wind Farm list fixed as of 28th May 2024.
The ZTV is calculated to individual turbine blade tip height (up to 149.9 m) from a viewing height of 2 m above ground level.
The terrain model assumes bare ground and is derived from OS Terrain 5 and OSNI 10m DTM height data.
Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcPro 3.2.0.



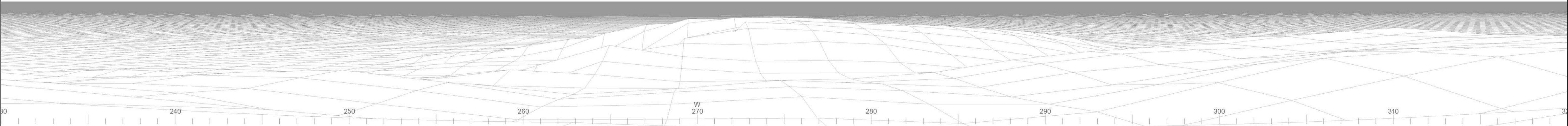
Larbrax Wind Farm
Figure: 5.2.12a
Viewpoint 12: South Cairn



Baseline photograph

This image provides landscape and visual context only

Wireline drawing



OS reference: 196890E 569230N
AOD: 41.3 m
Direction of view: 275°
Nearest turbine: 6.6 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: NIKON D750
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Photography Date: 15/06/2023
Photography Time: 06:59

Note:
No proposed or cumulative wind turbines
visible in the view

Wind Farm Developments key
(by status):

Proposed scheme
Operational
Under construction
Consented

Application

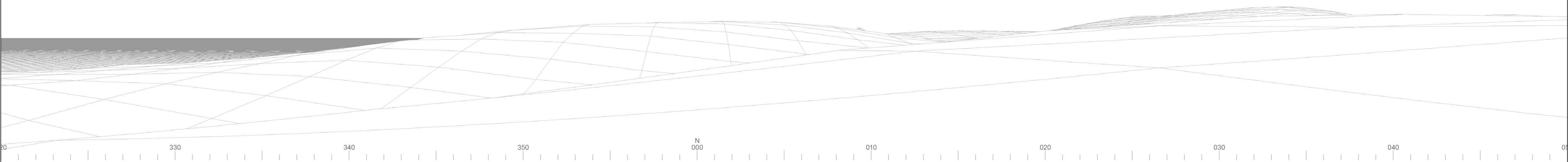
Larbrax Wind Farm
Figure: 5.2.12b
Viewpoint 12: South Cairn



Baseline photograph

This image provides landscape and visual context only

Wireline drawing



OS reference: 196890E 569230N
AOD: 41.3 m
Direction of view: 5°
Nearest turbine: 6.6 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: NIKON D750
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Photography Date: 15/06/2023
Photography Time: 06:59

Note:
No proposed or cumulative wind turbines
visible in the view

Wind Farm Developments key
(by status):

Proposed scheme
Operational
Under construction
Consented

Application

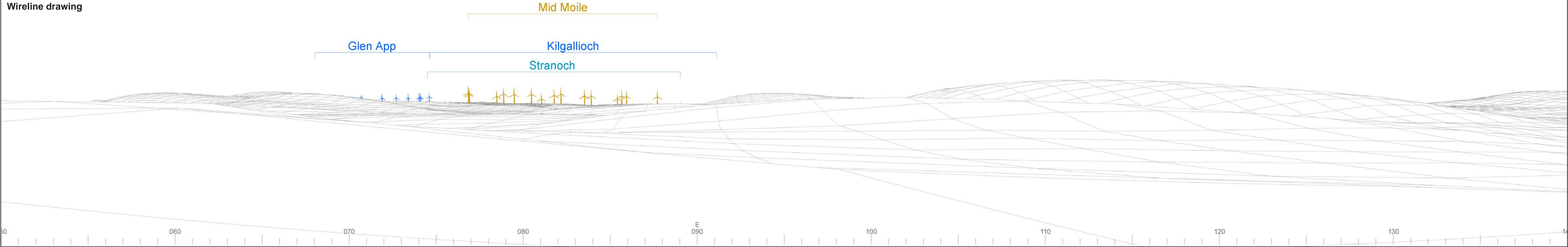
Larbrax Wind Farm
Figure: 5.2.12c
Viewpoint 12: South Cairn



Baseline photograph

This image provides landscape and visual context only

Wireline drawing



OS reference: 196890E 569230N
AOD: 41.3 m
Direction of view: 95°
Nearest turbine: 6.6 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: NIKON D750
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Photography Date: 15/06/2023
Photography Time: 06:59

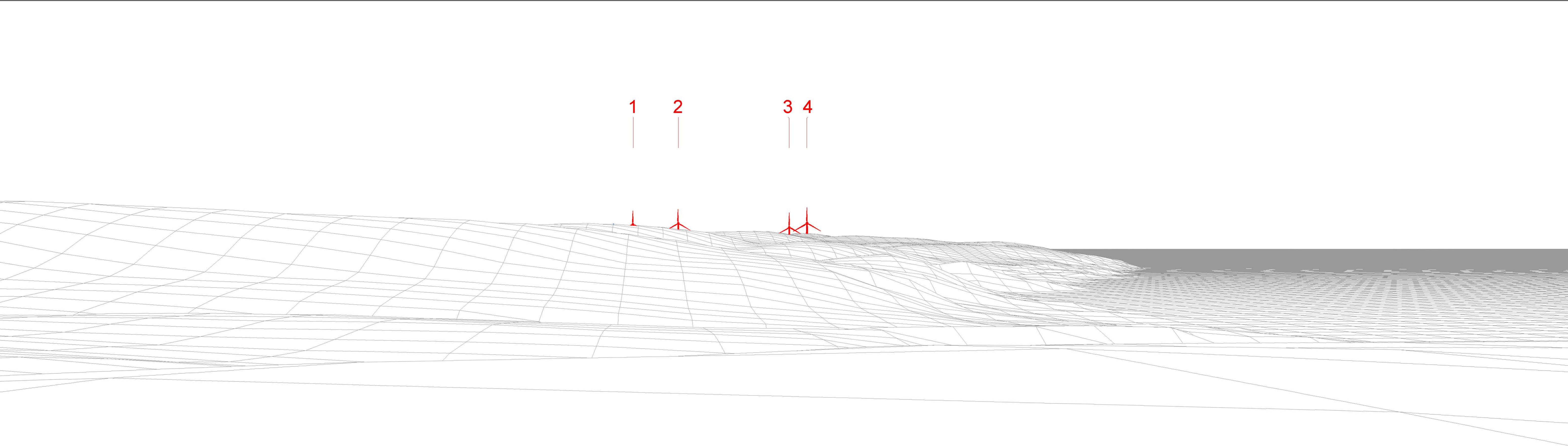
Wind Farm Development key
(by status):

Proposed scheme
Operational
Under construction
Consented

Application

Larbrax Wind Farm
Figure: 5.2.12d
Viewpoint 12: South Cairn

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Wireline drawing

View flat at a comfortable arm's length



OS reference:	196890E 569230N	Horizontal field of view:	53.5° (planar projection)
AOD:	41.3 m	Principal distance:	812.5 mm
Direction of view:	185°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	6.6 km	Correct printed image size:	820 x 260 mm

Wind Farm Developments key
(by status):

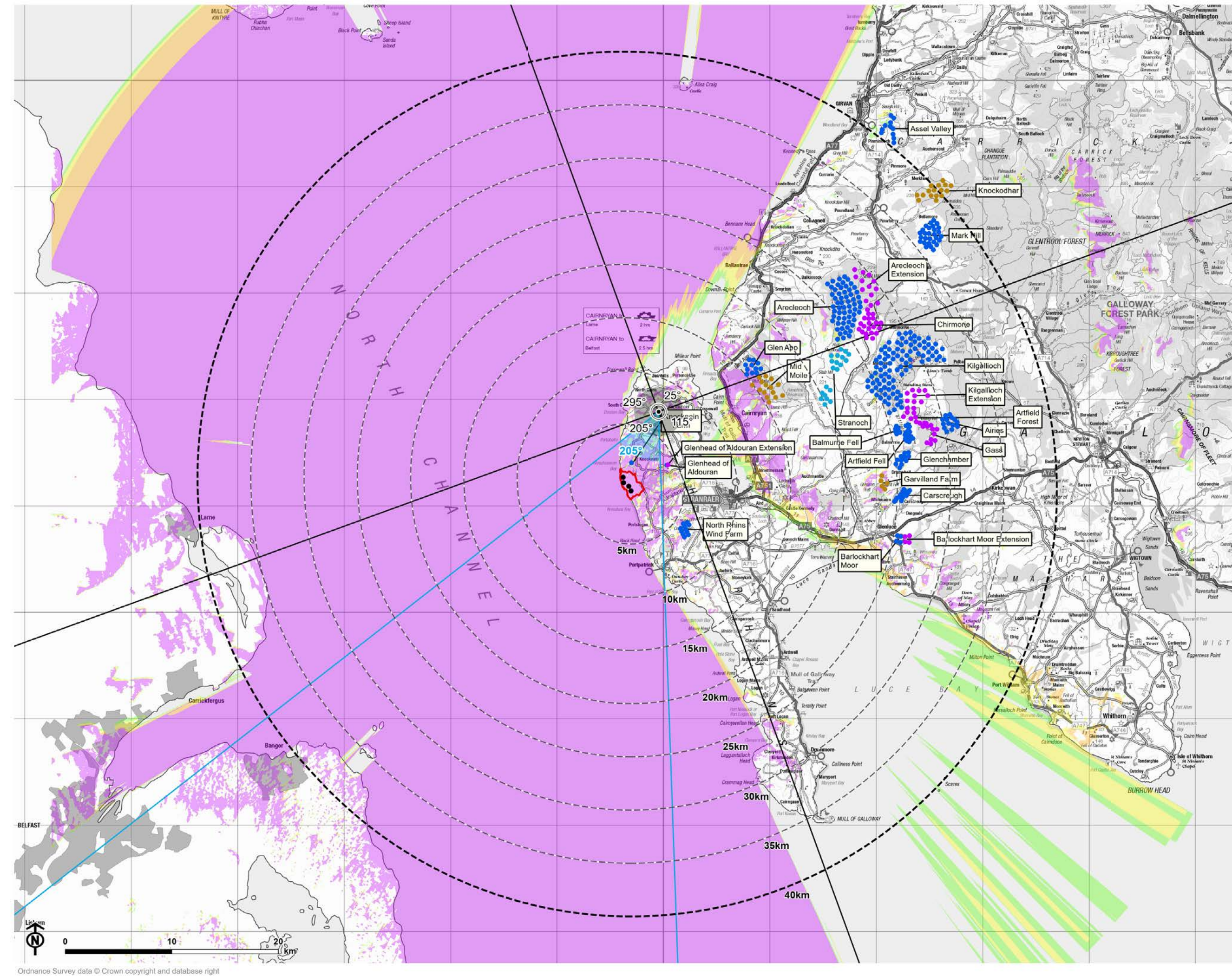
Proposed scheme
Operational

Larbrax Wind Farm
Figure: 5.2.12e
Viewpoint 12: South Cairn

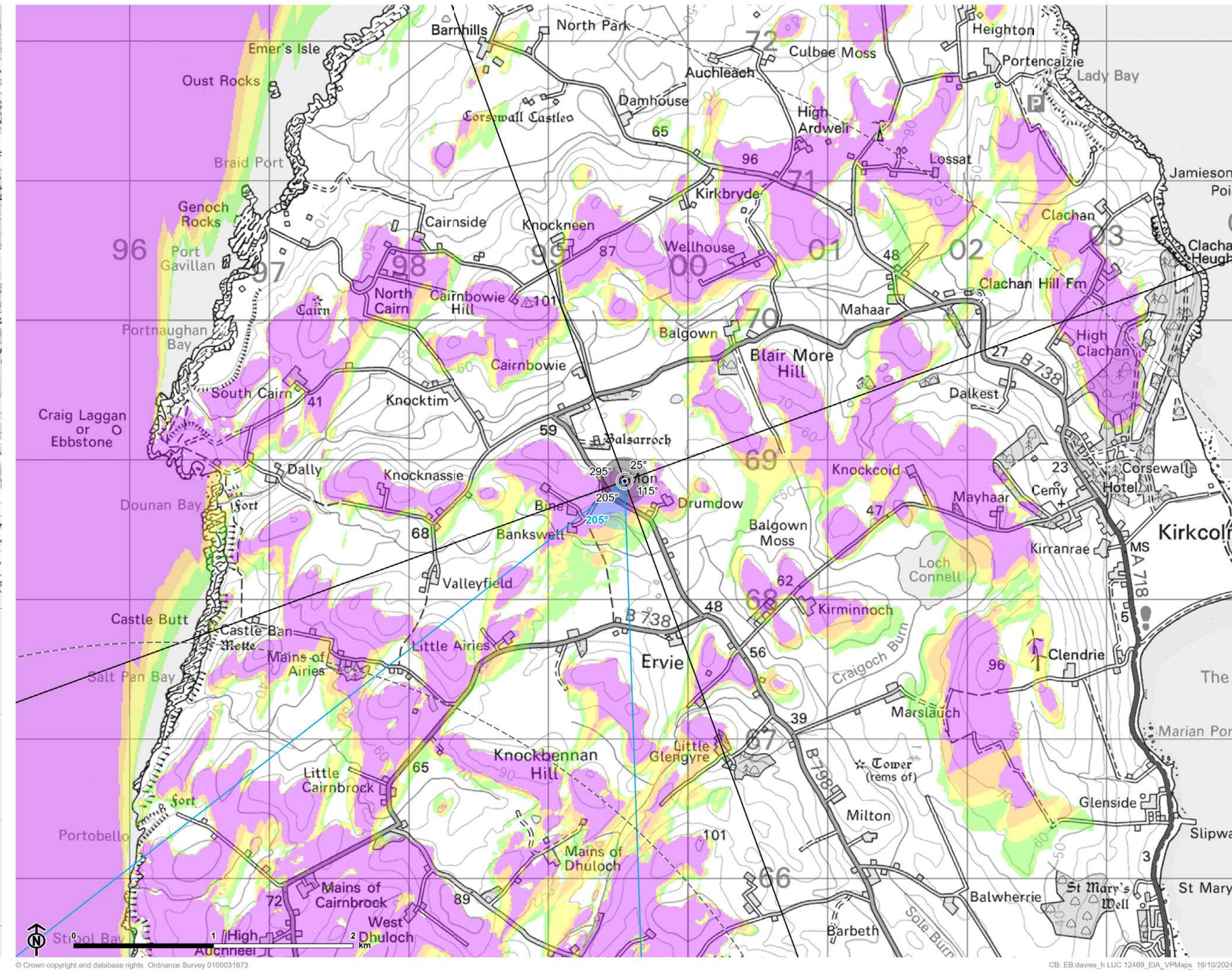


OS reference:	196890E 569230N	Horizontal field of view:	53.5° (planar projection)	Camera:	NIKON D750	Photography Date:	15/06/2023
AOD:	41.3 m	Principal distance:	812.5 mm	Lens:	50mm Fixed Focal Length	Photography Time:	06:59
Direction of view:	185°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m		
Nearest turbine:	6.6 km	Correct printed image size:	820 x 260 mm				

Larbrax Wind Farm
Figure: 5.2.12f
Viewpoint 12: South Cairn



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Figure: 5.2.13
Viewpoint 13: Marian Tower

- Site boundary
- Turbine
- 5km intervals from outermost turbines
- 40km LVIA study area from outermost turbines
- Viewpoint location
- Zone of Theoretical Visibility**
 - 1 turbine visible
 - 2 turbines visible
 - 3 turbines visible
 - 4 turbines visible
- Wind farm layout (by status)**
 - Operational
 - Under Construction
 - Consented
 - Application Submitted
- 53.5° field of view
- 90° field of view

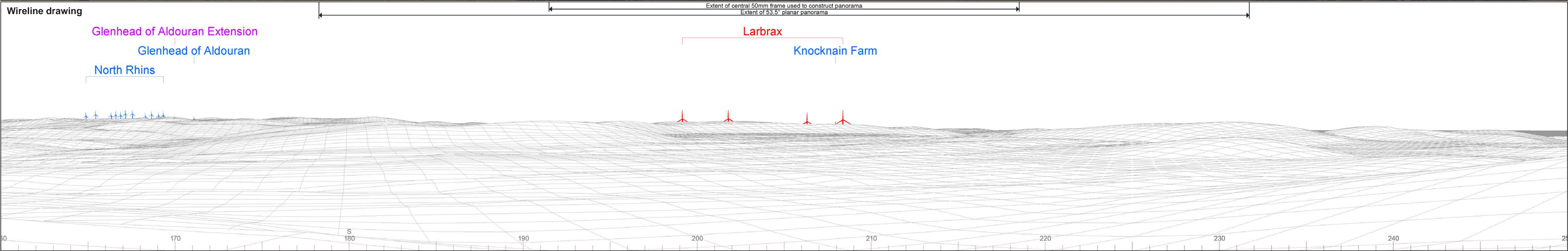
Notes:
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Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcPro 3.2.0.



Baseline photograph

This image provides landscape and visual context only

Wireline drawing



OS reference: 199547E 568847N
AOD: 90.1 m
Direction of view: 205°
Nearest turbine: 7 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: NIKON D750
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Photography Date: 26/02/2024
Photography Time: 09:52

Wind Farm Developments key
(by status):

Proposed scheme
Operational
Under construction
Consented

Application

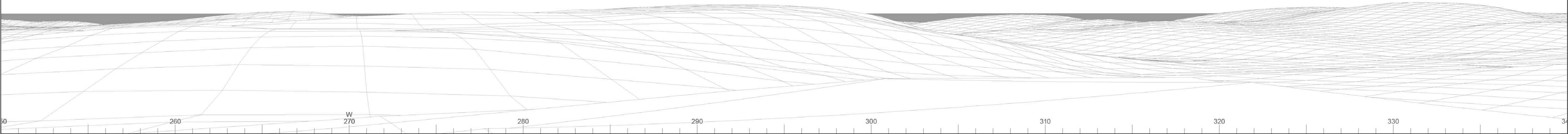
Larbrax Wind Farm
Figure: 5.2.13a
Viewpoint 13: Marian Tower



Baseline photograph

This image provides landscape and visual context only

Wireline drawing



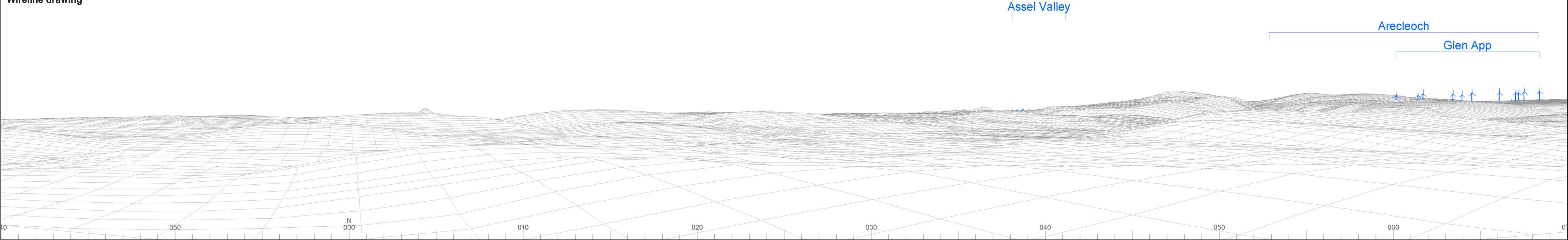
Larbrax Wind Farm
Figure: 5.2.13b
Viewpoint 13: Marian Tower



Baseline photograph

This image provides landscape and visual context only

Wireline drawing



OS reference:	199547E 568847N	Horizontal field of view:	90° (cylindrical projection)	Camera:	NIKON D750	Photography Date:	26/02/2024
AOD:	90.1 m	Principal distance:	522 mm	Lens:	50mm Fixed Focal Length	Photography Time:	09:52
Direction of view:	25°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m		
Nearest turbine:	7 km	Correct printed image size:	820 x 260 mm				

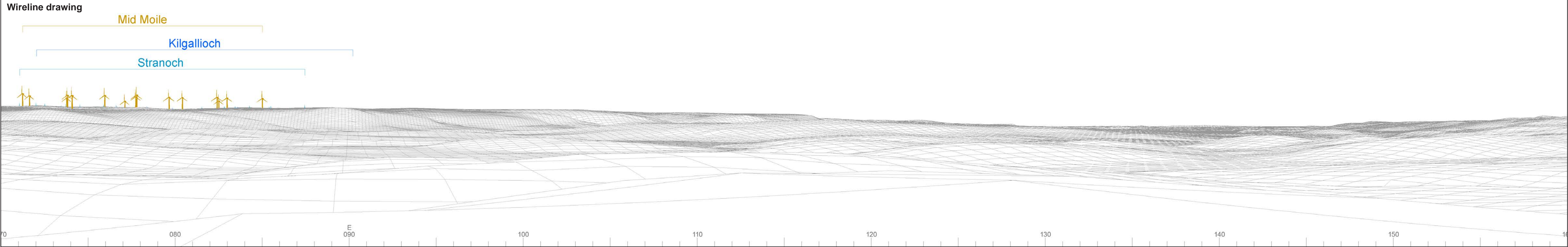
Wind Farm Development key
(by status):

Proposed scheme	Application
Operational	
Under construction	
Consented	

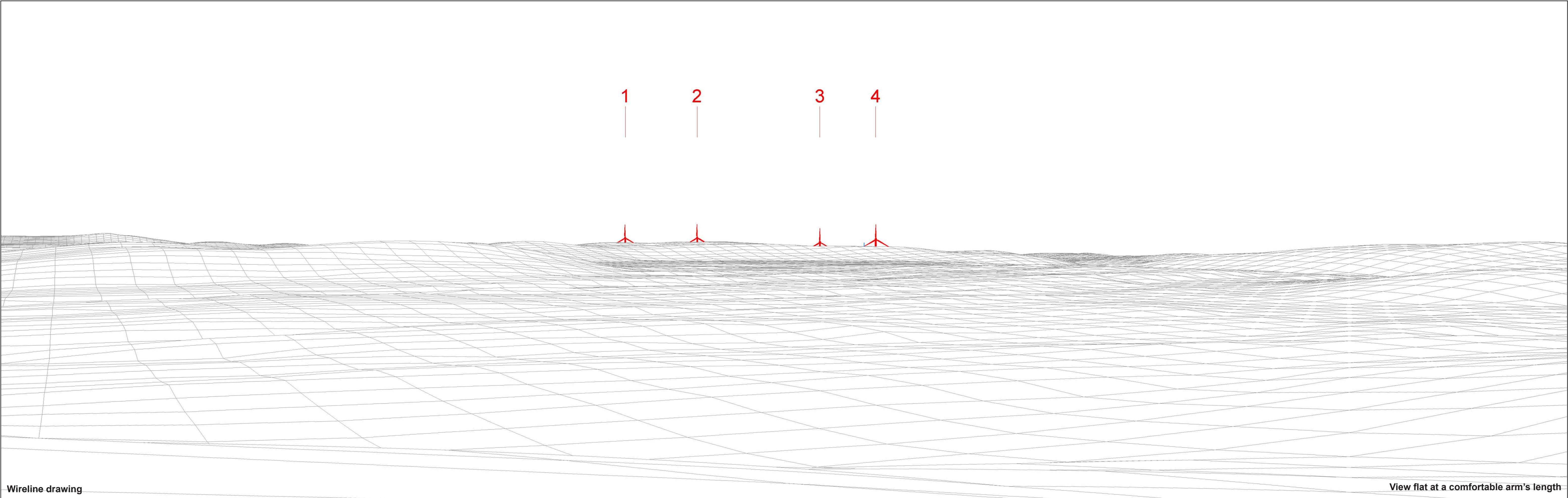


Baseline photograph

This image provides landscape and visual context only



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OS reference:	199547E 568847N	Horizontal field of view:	53.5° (planar projection)
AOD:	90.1 m	Principal distance:	812.5 mm
Direction of view:	205°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	7 km	Correct printed image size:	820 x 260 mm

Wind Farm Developments key
(by status):

Proposed scheme
Operational

Larbrax Wind Farm
Figure: 5.2.13e
Viewpoint 13: Marian Tower



Photomontage

View flat at a comfortable arm's length



OS reference:	199547E 568847N	Horizontal field of view:	53.5° (planar projection)	Camera:	NIKON D750	Photography Date:	26/02/2024
AOD:	90.1 m	Principal distance:	812.5 mm	Lens:	50mm Fixed Focal Length	Photography Time:	09:52
Direction of view:	205°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m		
Nearest turbine:	7 km	Correct printed image size:	820 x 260 mm				

Larbrax Wind Farm
Figure: 5.2.13f
Viewpoint 13: Marian Tower

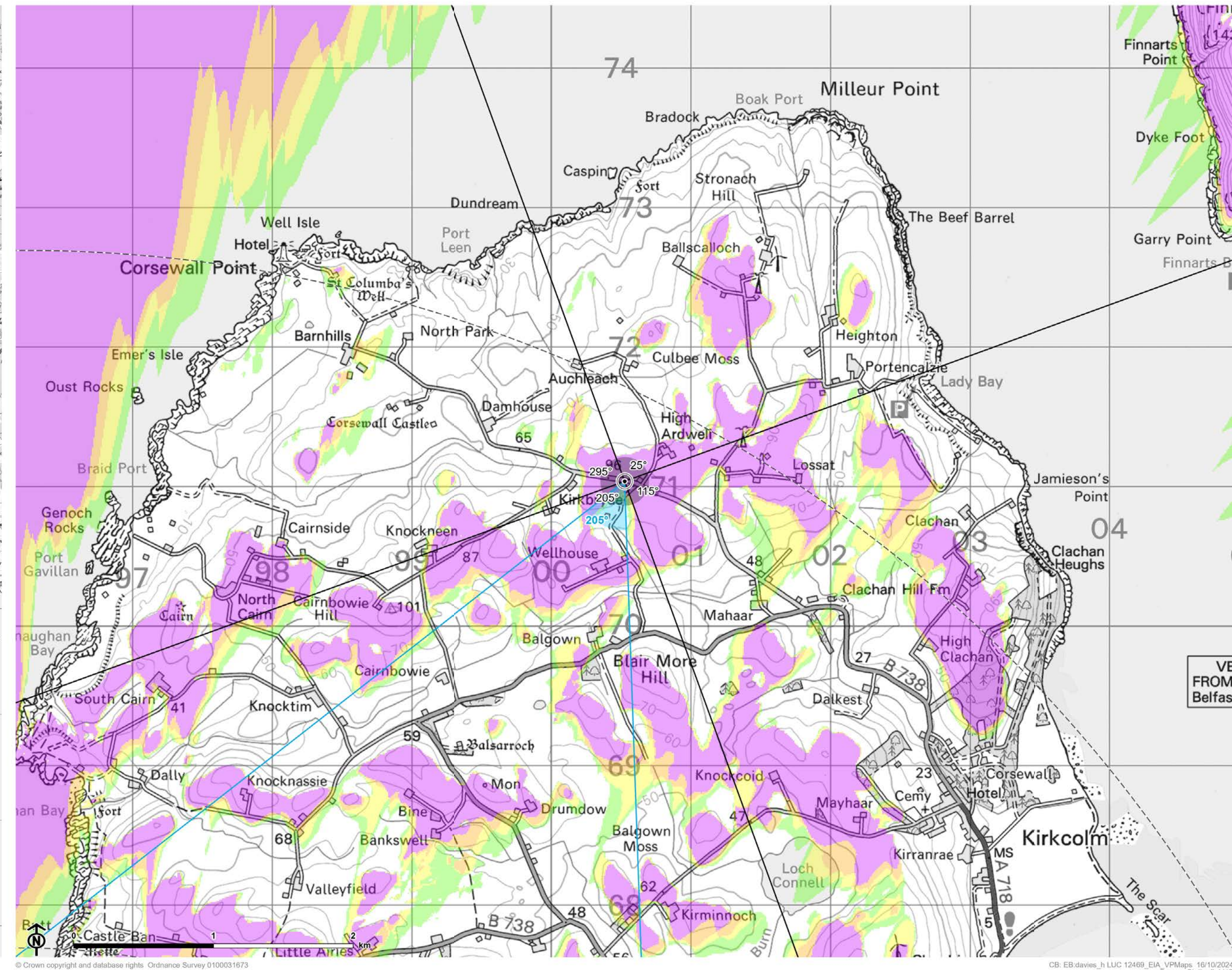
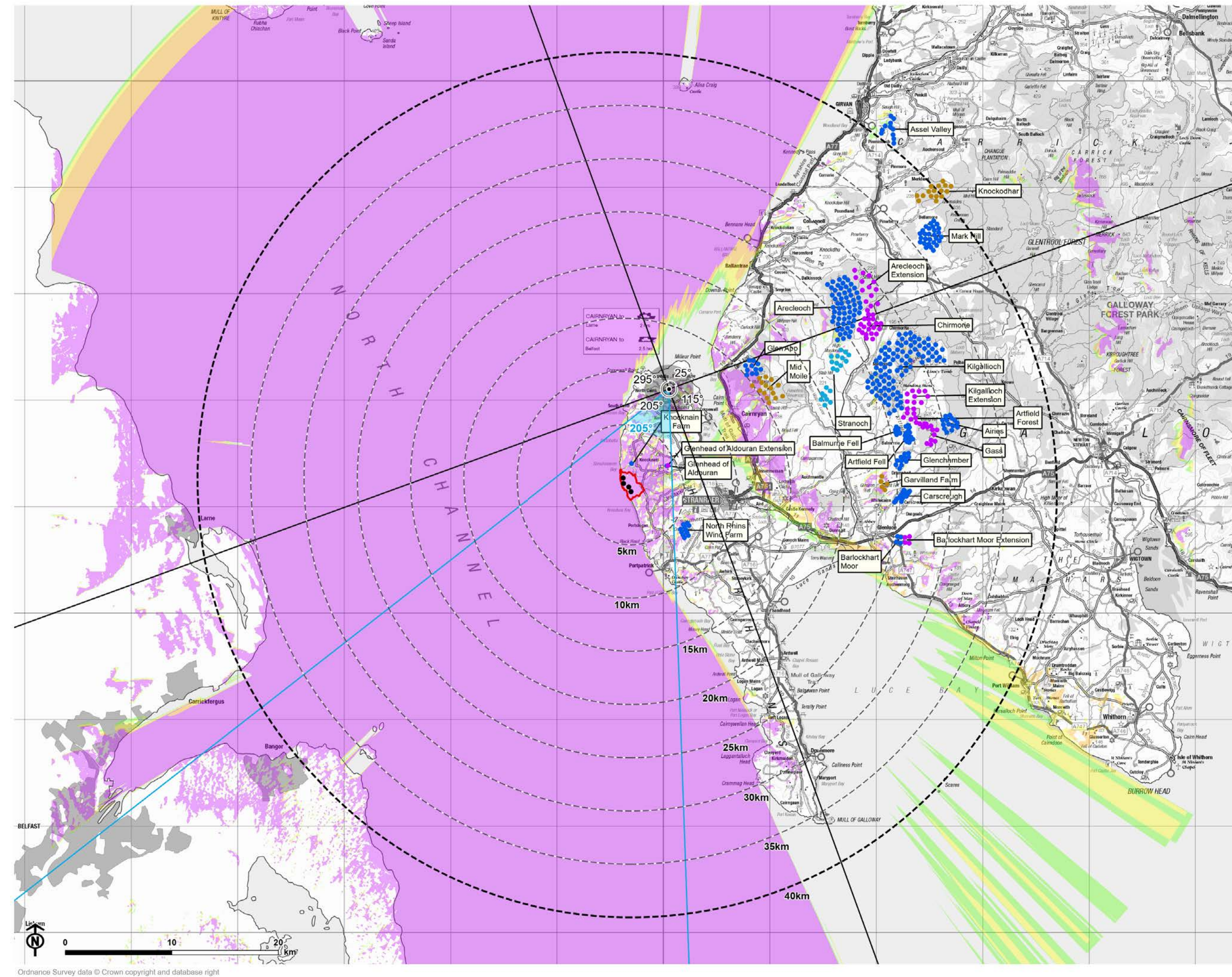
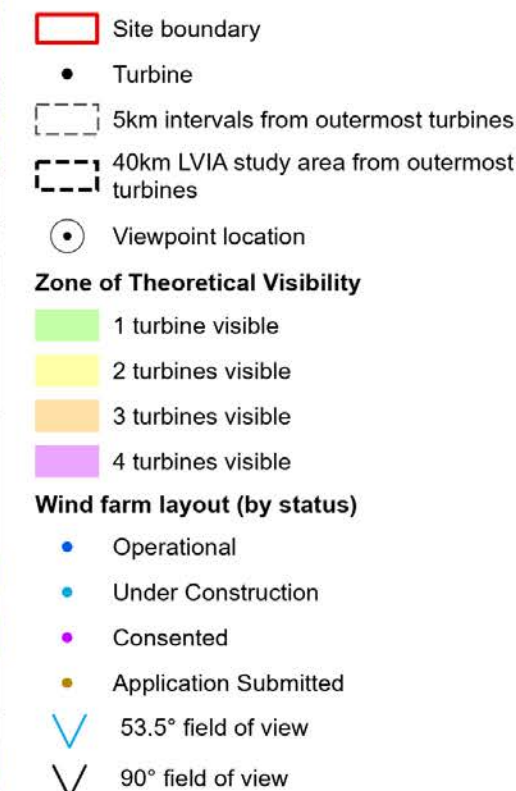


Figure: 5.2.14
Viewpoint 14: High Ardwell

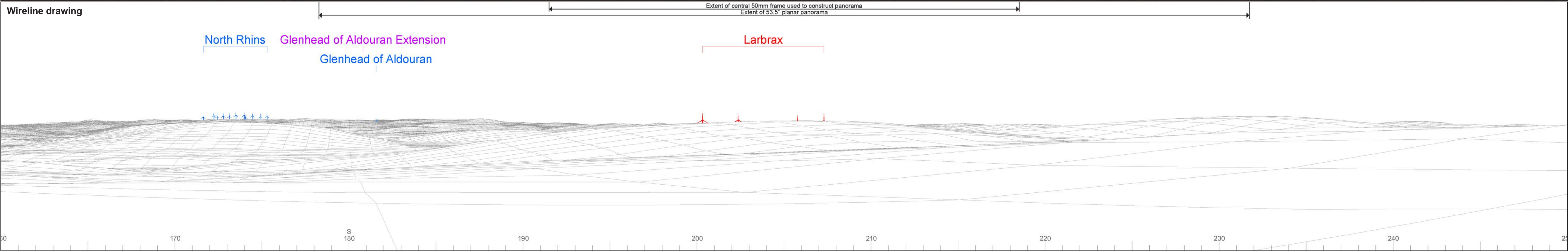




Baseline photograph

This image provides landscape and visual context only

Wireline drawing



OS reference:	200526E 571037N	Horizontal field of view:	90° (cylindrical projection)	Camera:	NIKON D750	Photography Date:	26/02/2024
AOD:	92.5 m	Principal distance:	522 mm	Lens:	50mm Fixed Focal Length	Photography Time:	09:22
Direction of view:	205°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m		
Nearest turbine:	9.4 km	Correct printed image size:	820 x 260 mm				

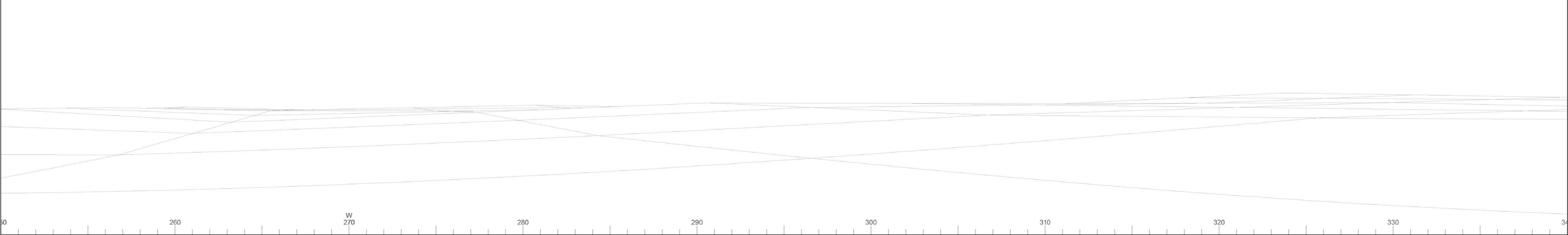
Wind Farm Developments key
(by status):

Proposed scheme	Application
Operational	
Under construction	
Consented	

Larbrax Wind Farm
Figure: 5.2.14a
Viewpoint 14: High Ardwell



Wireline drawing

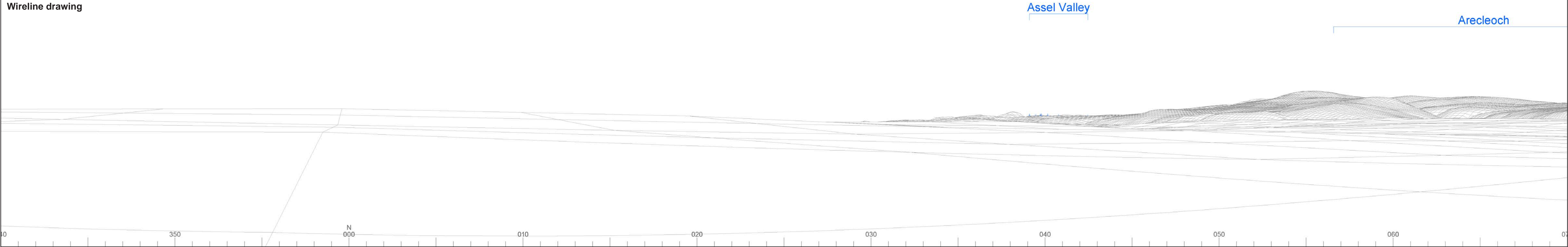




Baseline photograph

This image provides landscape and visual context only

Wireline drawing



OS reference: 200526E 571037N
AOD: 92.5 m
Direction of view: 25°
Nearest turbine: 9.4 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: NIKON D750
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Photography Date: 26/02/2024
Photography Time: 09:22

Wind Farm Developments key
(by status):

Proposed scheme
Operational
Under construction
Consented

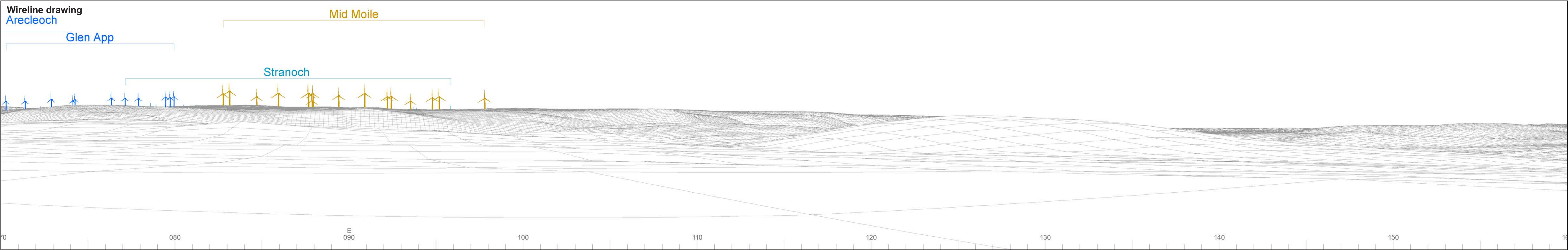
Application

Larbrax Wind Farm
Figure: 5.2.14c
Viewpoint 14: High Ardwell



Baseline photograph

This image provides landscape and visual context only



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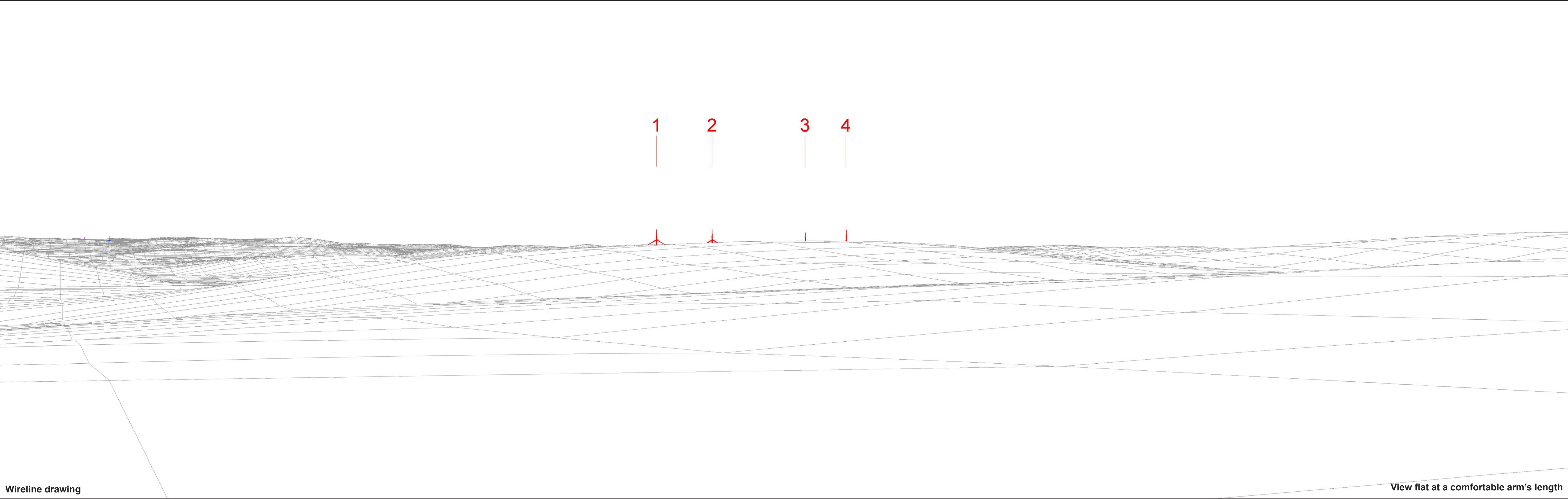
OS reference:	200526E 571037N	Horizontal field of view:	90° (cylindrical projection)	Camera:	NIKON D750	Photography Date:	26/02/2024
AOD:	92.5 m	Principal distance:	522 mm	Lens:	50mm Fixed Focal Length	Photography Time:	09:22
Direction of view:	115°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m		
Nearest turbine:	9.4 km	Correct printed image size:	820 x 260 mm				

Wind Farm Development key
(by status):

Proposed scheme	Application
Operational	
Under construction	
Consented	

Larbrax Wind Farm
Figure: 5.2.14d
Viewpoint 14: High Ardwell

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Wireline drawing

View flat at a comfortable arm's length



OS reference:	200526E 571037N	Horizontal field of view:	53.5° (planar projection)
AOD:	92.5 m	Principal distance:	812.5 mm
Direction of view:	205°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	9.4 km	Correct printed image size:	820 x 260 mm

Wind Farm Developments key
(by status):

Proposed scheme
Operational

Larbrax Wind Farm
Figure: 5.2.14e
Viewpoint 14: High Ardwell



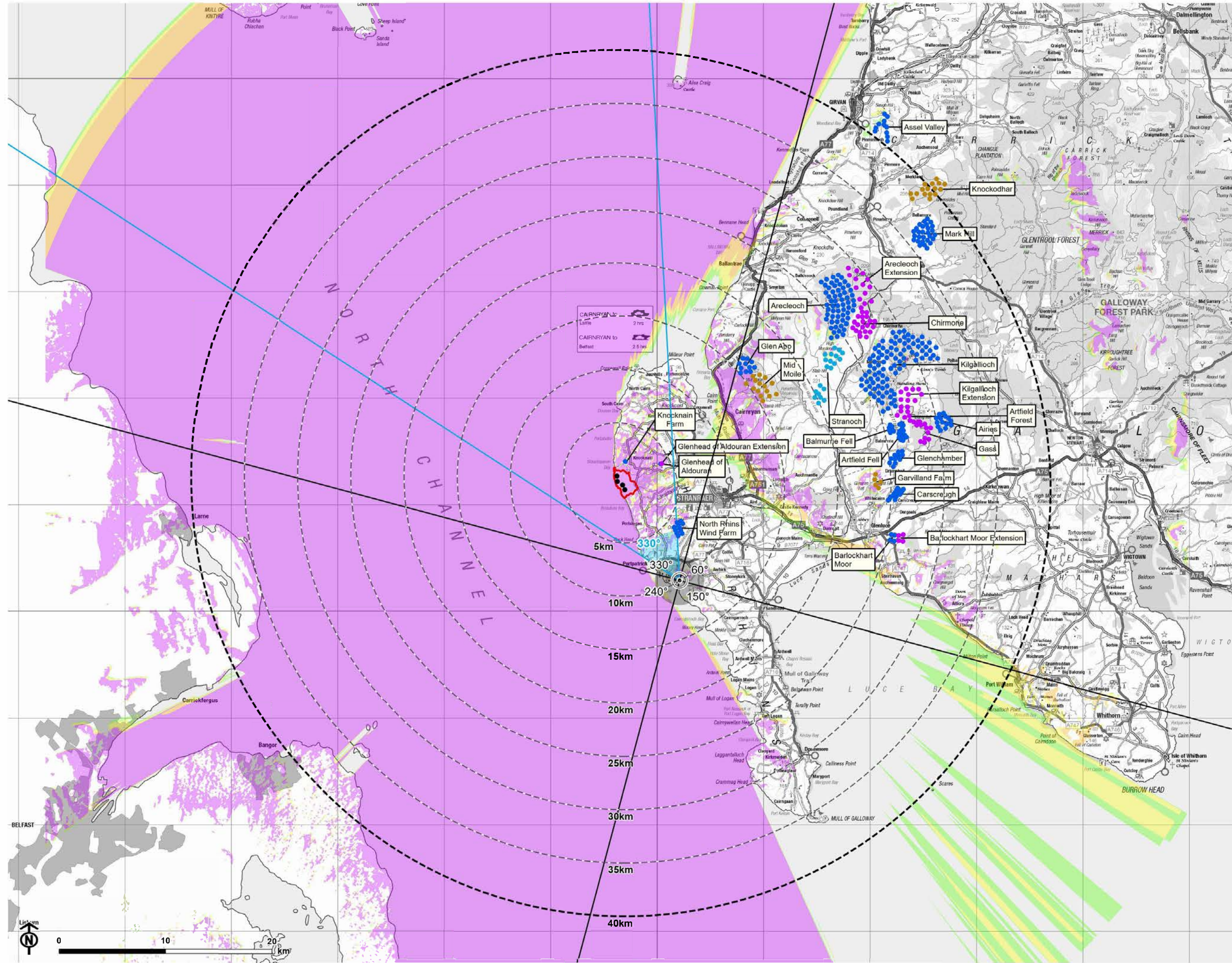
Photomontage

View flat at a comfortable arm's length



OS reference:	200526E 571037N	Horizontal field of view:	53.5° (planar projection)	Camera:	NIKON D750	Photography Date:	26/02/2024
AOD:	92.5 m	Principal distance:	812.5 mm	Lens:	50mm Fixed Focal Length	Photography Time:	09:22
Direction of view:	205°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m		
Nearest turbine:	9.4 km	Correct printed image size:	820 x 260 mm				

Larbrax Wind Farm
Figure: 5.2.14f
Viewpoint 14: High Ardwell



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Figure: 5.2.15
Viewpoint 15: Minor Road west of North Port o' Spittal

- Site boundary
- Turbine
- 5km intervals from outermost turbines
- 40km LVIA study area from outermost turbines
- Viewpoint location
- Zone of Theoretical Visibility**
 - 1 turbine visible
 - 2 turbines visible
 - 3 turbines visible
 - 4 turbines visible
- Wind farm layout (by status)**
 - Operational
 - Under Construction
 - Consented
 - Application Submitted
- 53.5° field of view
- 90° field of view

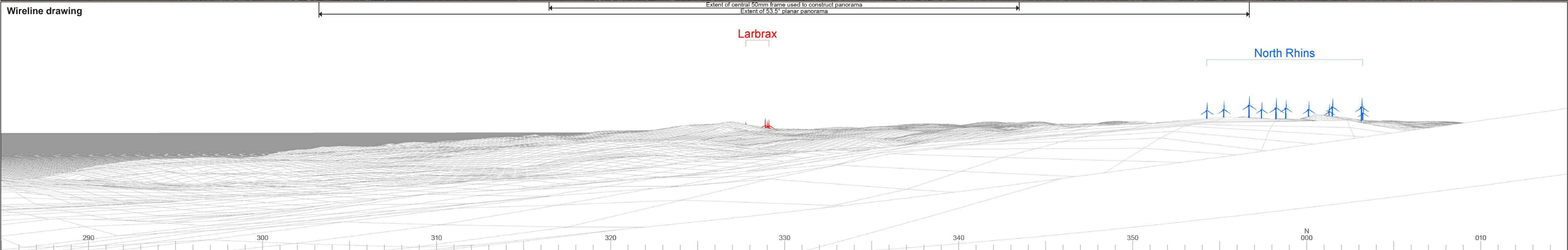
Notes:
With the exception of Glenhead of Aldouran (and its extension), turbines under 50m to tip have been excluded. Single turbine beyond 5km have been excluded. Scoping stage schemes have been excluded. Cumulative Wind Farm list fixed as of 28th May 2024.
The ZTV is calculated to individual turbine blade tip height (up to 149.9 m) from a viewing height of 2 m above ground level.
The terrain model assumes bare ground and is derived from OS Terrain 5 and OSNI 10m DTM height data.
Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcPro 3.2.0.



Baseline photograph

This image provides landscape and visual context only

Wireline drawing



OS reference:	202111E 552881N	Horizontal field of view:	90° (cylindrical projection)	Camera:	NIKON D750	Photography Date:	26/02/2024
AOD:	123.8 m	Principal distance:	522 mm	Lens:	50mm Fixed Focal Length	Photography Time:	13:37
Direction of view:	330°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m		
Nearest turbine:	10 km	Correct printed image size:	820 x 260 mm				

Wind Farm Developments key
(by status):

Proposed scheme	Application
Operational	
Under construction	
Consented	

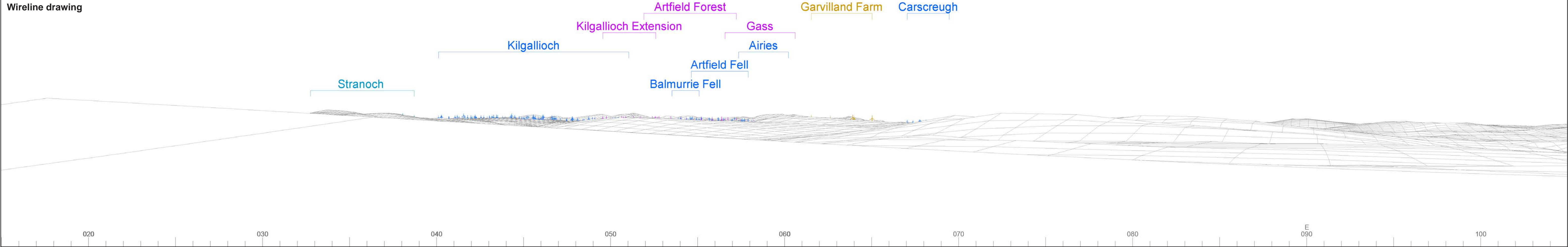
Larbrax Wind Farm
Figure: 5.2.15a
Viewpoint 15: Minor Road west of North Port o' Spittal



Baseline photograph

This image provides landscape and visual context only

Wireline drawing



OS reference: 202111E 552881N
AOD: 123.8 m
Direction of view: 60°
Nearest turbine: 10 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: NIKON D750
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Photography Date: 26/02/2024
Photography Time: 13:37

Wind Farm Developments key
(by status):

Proposed scheme
Operational
Under construction
Consented

Application

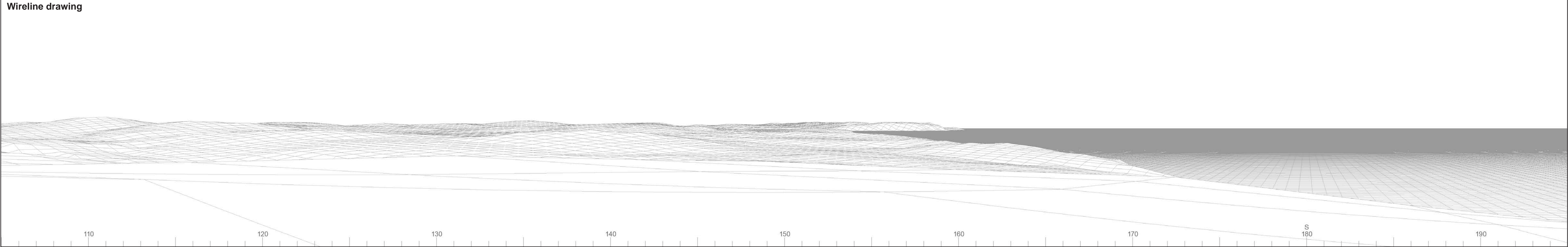
Larbrax Wind Farm
Figure: 5.2.15b
Viewpoint 15: Minor Road west of North Port o' Spittal



Baseline photograph

This image provides landscape and visual context only

Wireline drawing



OS reference: 202111E 552881N
AOD: 123.8 m
Direction of view: 150°
Nearest turbine: 10 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: NIKON D750
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Photography Date: 26/02/2024
Photography Time: 13:37

Note:
No proposed or cumulative wind turbines visible in the view

Wind Farm Developments key
(by status):

Proposed scheme
Operational
Under construction
Consented

Application

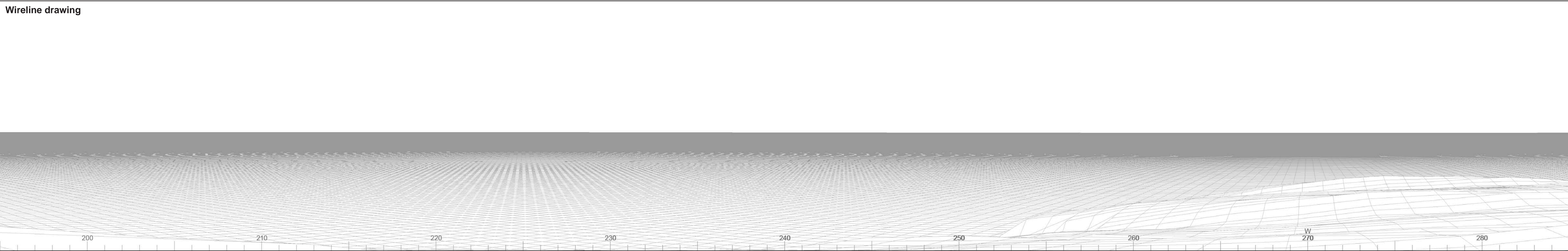
Larbrax Wind Farm
Figure: 5.2.15c
Viewpoint 15: Minor Road west of North Port o' Spittal



Baseline photograph

This image provides landscape and visual context only

Wireline drawing



OS reference: 202111E 552881N
AOD: 123.8 m
Direction of view: 240°
Nearest turbine: 10 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: NIKON D750
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Photography Date: 26/02/2024
Photography Time: 13:37

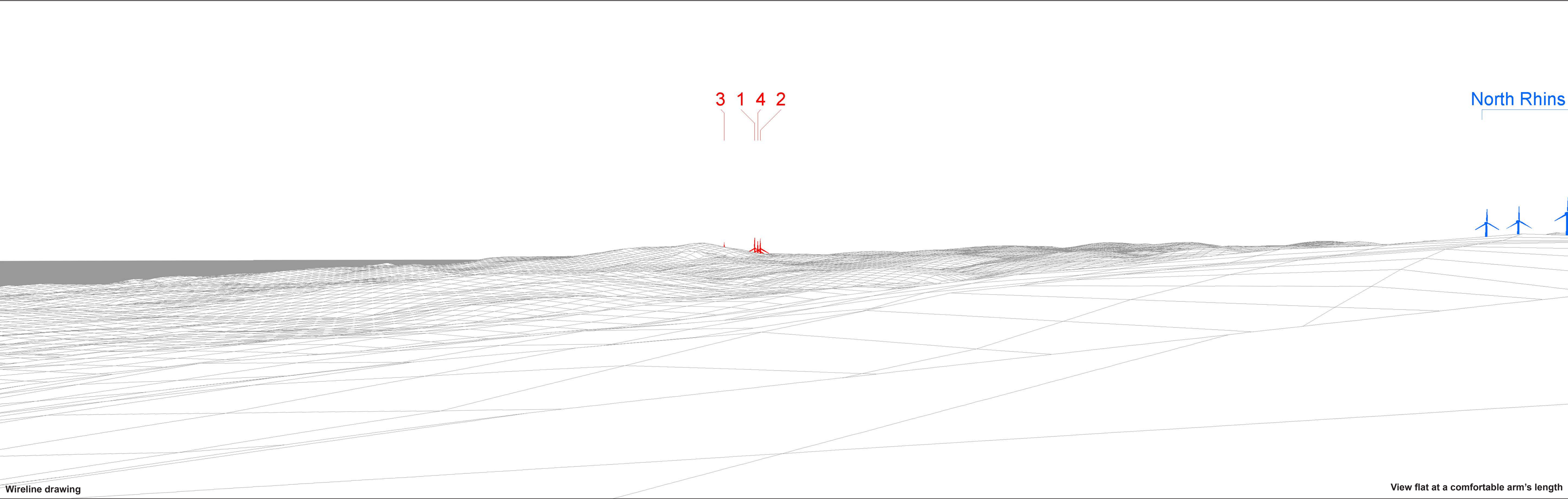
Wind Farm Developments key
(by status):

Proposed scheme
Operational
Under construction
Consented

Application

Larbrax Wind Farm
Figure: 5.2.15d
Viewpoint 15: Minor Road west of North Port o' Spittal

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Wireline drawing

View flat at a comfortable arm's length



OS reference:	202111E 552881N	Horizontal field of view:	53.5° (planar projection)
AOD:	123.8 m	Principal distance:	812.5 mm
Direction of view:	330°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	10 km	Correct printed image size:	820 x 260 mm

Wind Farm Developments key
(by status):

Proposed scheme
Operational

Larbrax Wind Farm
Figure: 5.2.15e
Viewpoint 15: Minor Road west of North Port o' Spittal



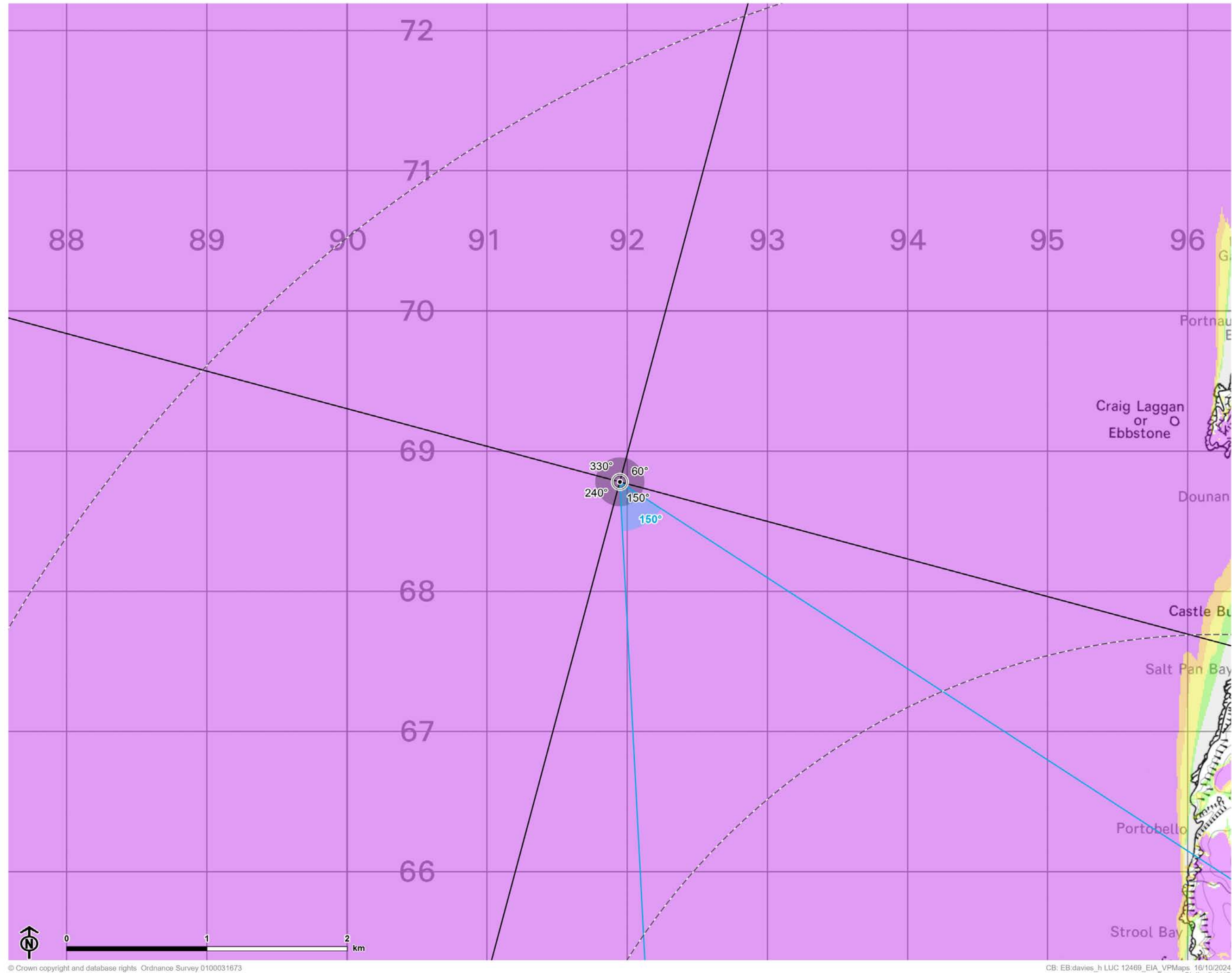
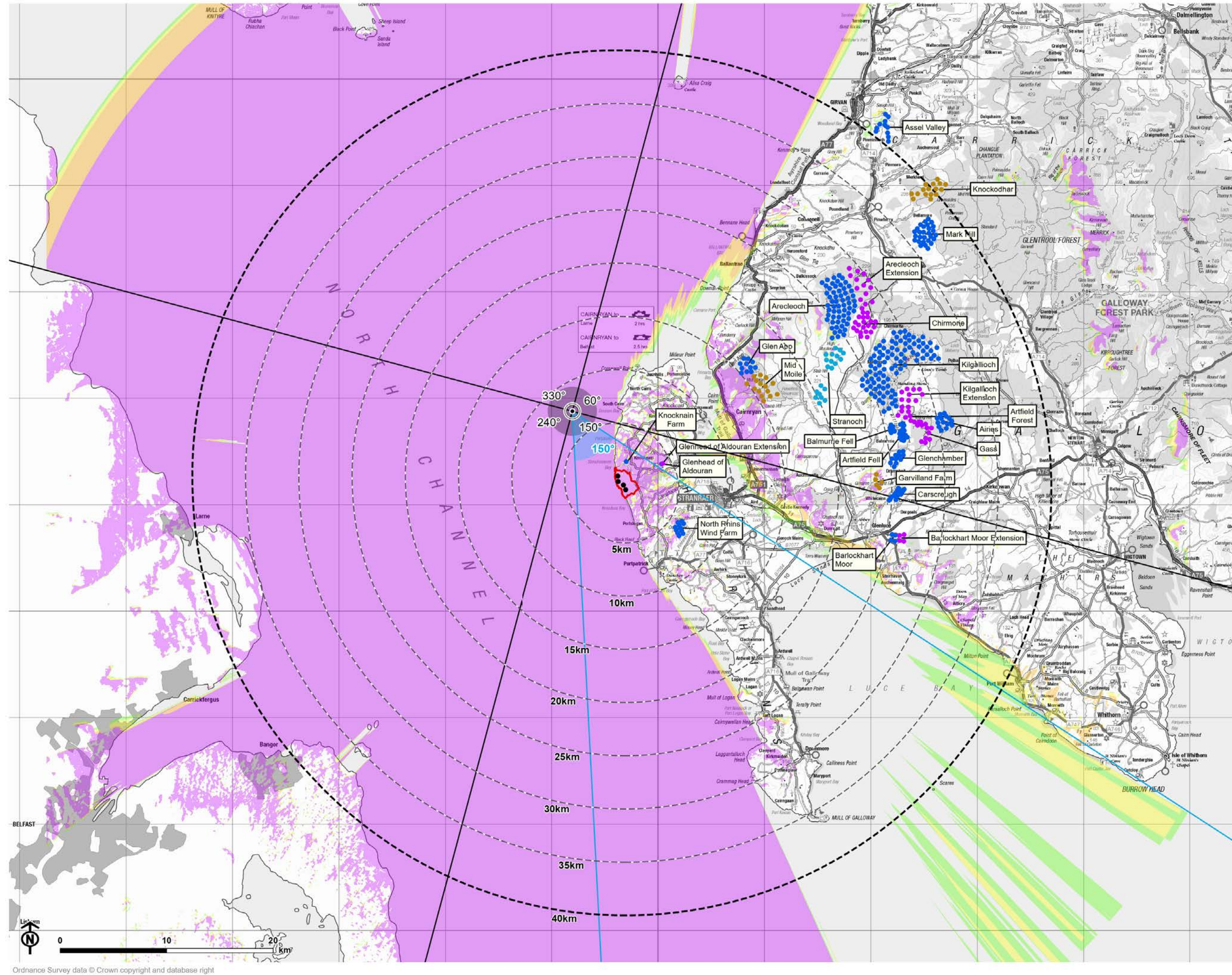
Photomontage

View flat at a comfortable arm's length

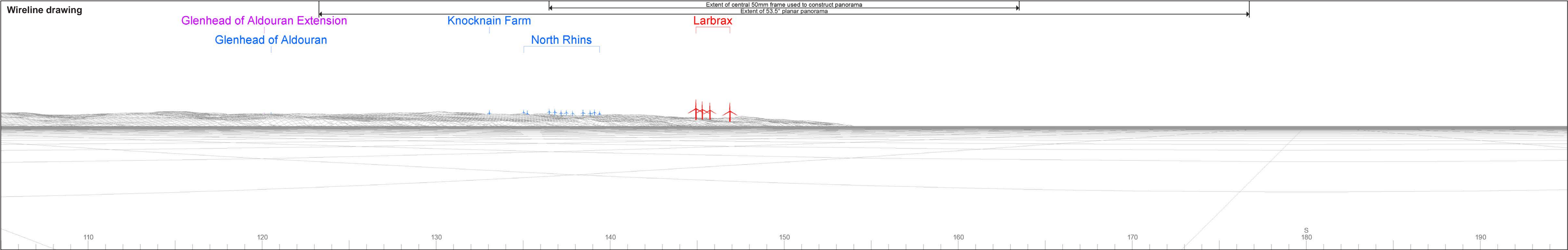


OS reference:	202111E 552881N	Horizontal field of view:	53.5° (planar projection)	Camera:	NIKON D750	Photography Date:	26/02/2024
AOD:	123.8 m	Principal distance:	812.5 mm	Lens:	50mm Fixed Focal Length	Photography Time:	13:37
Direction of view:	330°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m		
Nearest turbine:	10 km	Correct printed image size:	820 x 260 mm				

Larbrax Wind Farm
Figure: 5.2.15f
Viewpoint 15: Minor Road west of North Port o' Spittal



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OS reference:	191948E 568780N	Horizontal field of view:	90° (cylindrical projection)	Camera:	
AOD:	n/a	Principal distance:	522 mm	Lens:	50mm Fixed Focal Length
Direction of view:	150°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	7.4 km	Correct printed image size:	820 x 260 mm		

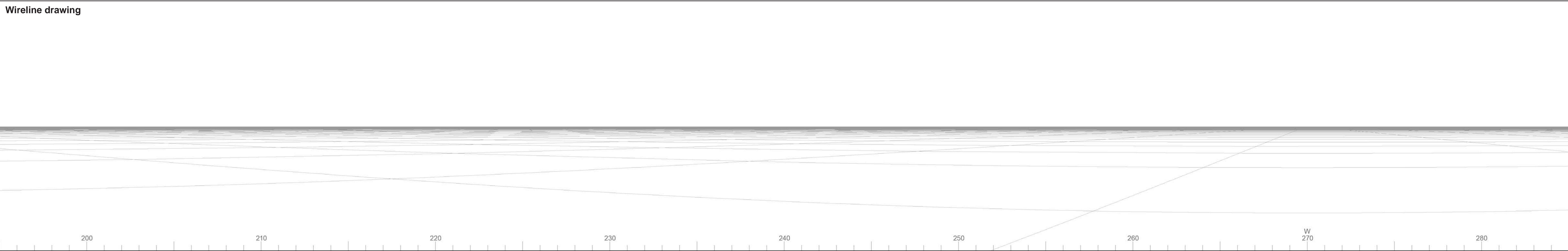
Wind Farm Developments key
(by status):

Proposed scheme	Application
Operational	
Under construction	
Consented	

Larbrax Wind Farm
Figure: 5.2.16a
Viewpoint 16: Stranraer to Belfast Ferry

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Wireline drawing



OS reference: 191948E 568780N
AOD: n/a
Direction of view: 240°
Nearest turbine: 7.4 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: 50mm Fixed Focal Length
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Note:
No proposed or cumulative wind turbines
visible in the view

Wind Farm Developments key
(by status):

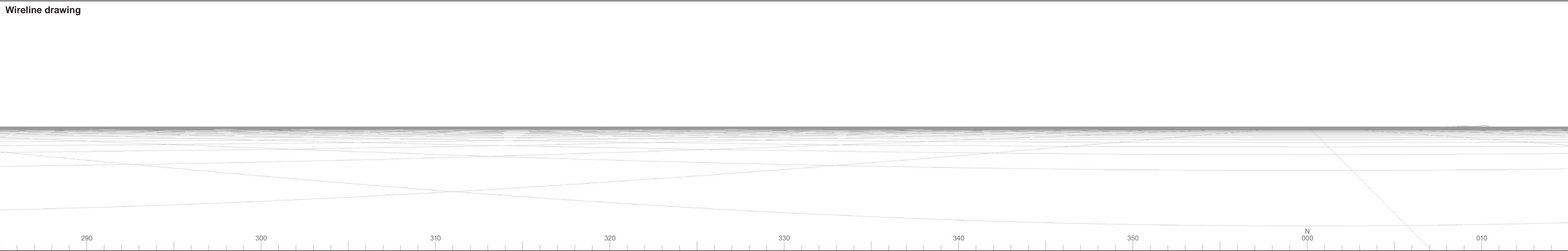
Proposed scheme
Operational
Under construction
Consented

Application

Larbrax Wind Farm
Figure: 5.2.16b
Viewpoint 16: Stranraer to Belfast Ferry

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Wireline drawing



OS reference: 191948E 568780N
AOD: n/a
Direction of view: 330°
Nearest turbine: 7.4 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: 50mm Fixed Focal Length
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Note:
No proposed or cumulative wind turbines
visible in the view

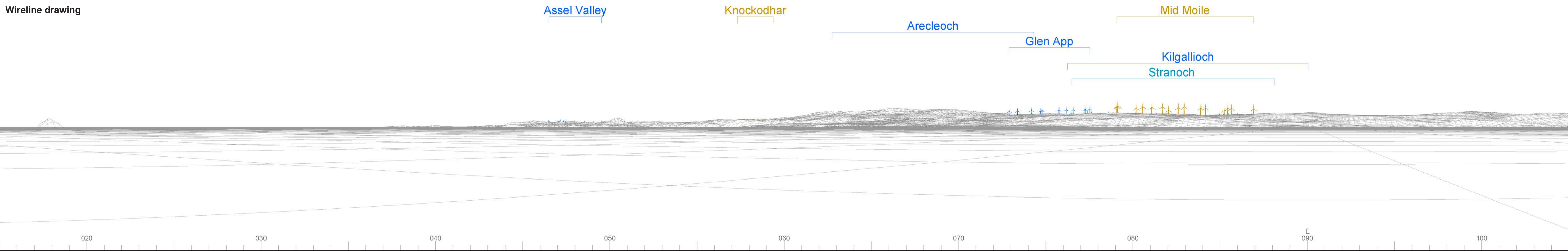
Wind Farm Developments key
(by status):

Proposed scheme
Operational
Under construction
Consented

Application

Larbrax Wind Farm
Figure: 5.2.16c
Viewpoint 16: Stranraer to Belfast Ferry

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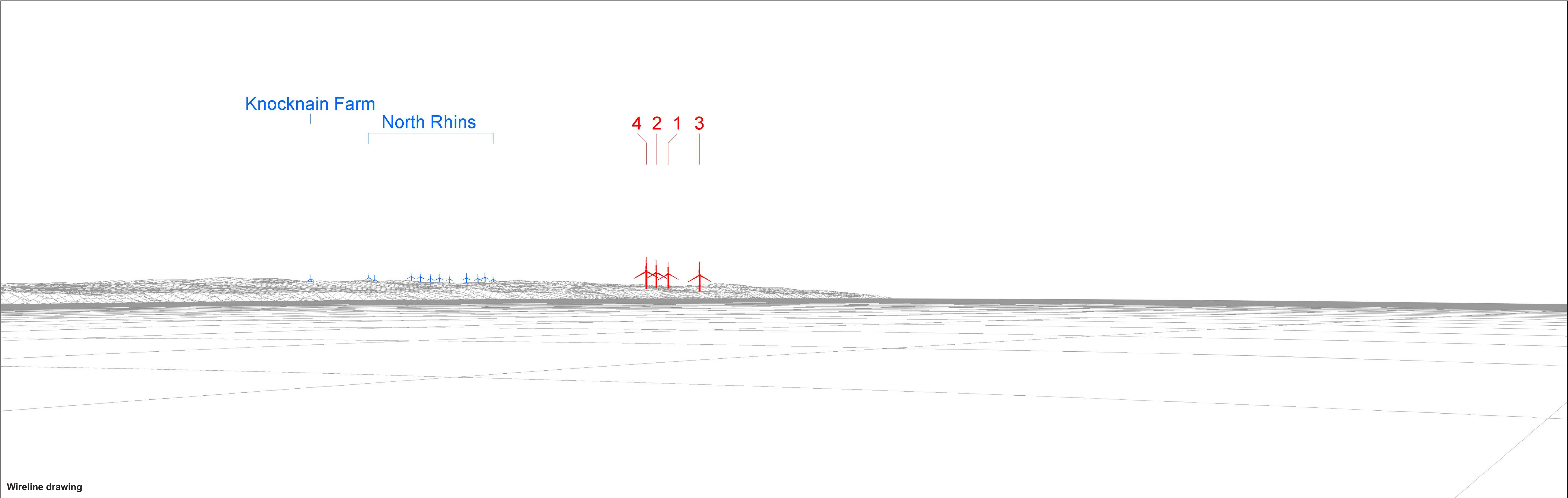
OS reference:	191948E 568780N	Horizontal field of view:	90° (cylindrical projection)	Camera:	
AOD:	n/a	Principal distance:	522 mm	Lens:	50mm Fixed Focal Length
Direction of view:	60°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	7.4 km	Correct printed image size:	820 x 260 mm		

Wind Farm Developments key
(by status):

Proposed scheme	Application
Operational	
Under construction	
Consented	

Larbrax Wind Farm
Figure: 5.2.16d
Viewpoint 16: Stranraer to Belfast Ferry

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Wireline drawing

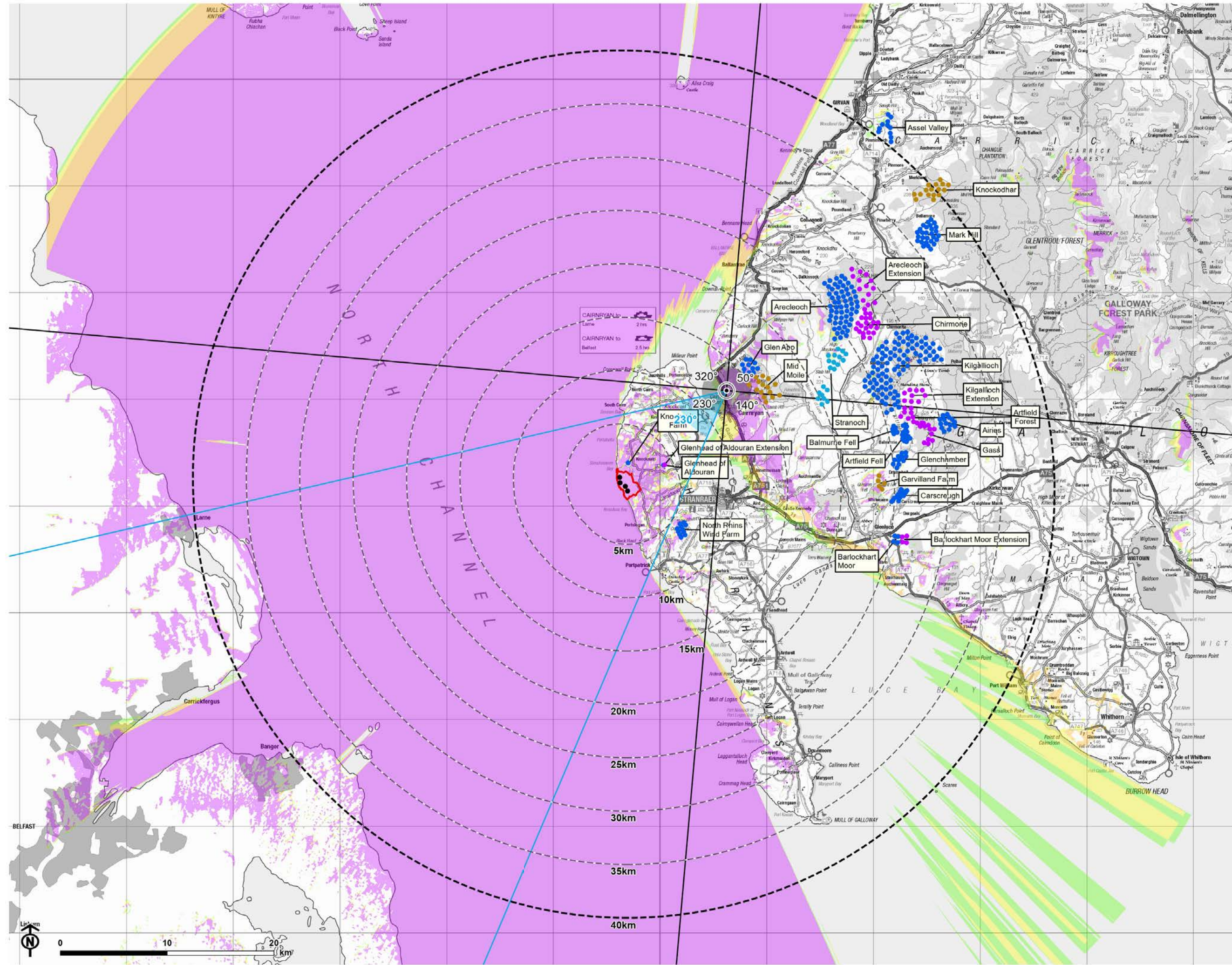


OS reference:	191948E 568780N	Horizontal field of view:	53.5° (planar projection)
AOD:	n/a	Principal distance:	812.5 mm
Direction of view:	150°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	7.4 km	Correct printed image size:	820 x 260 mm

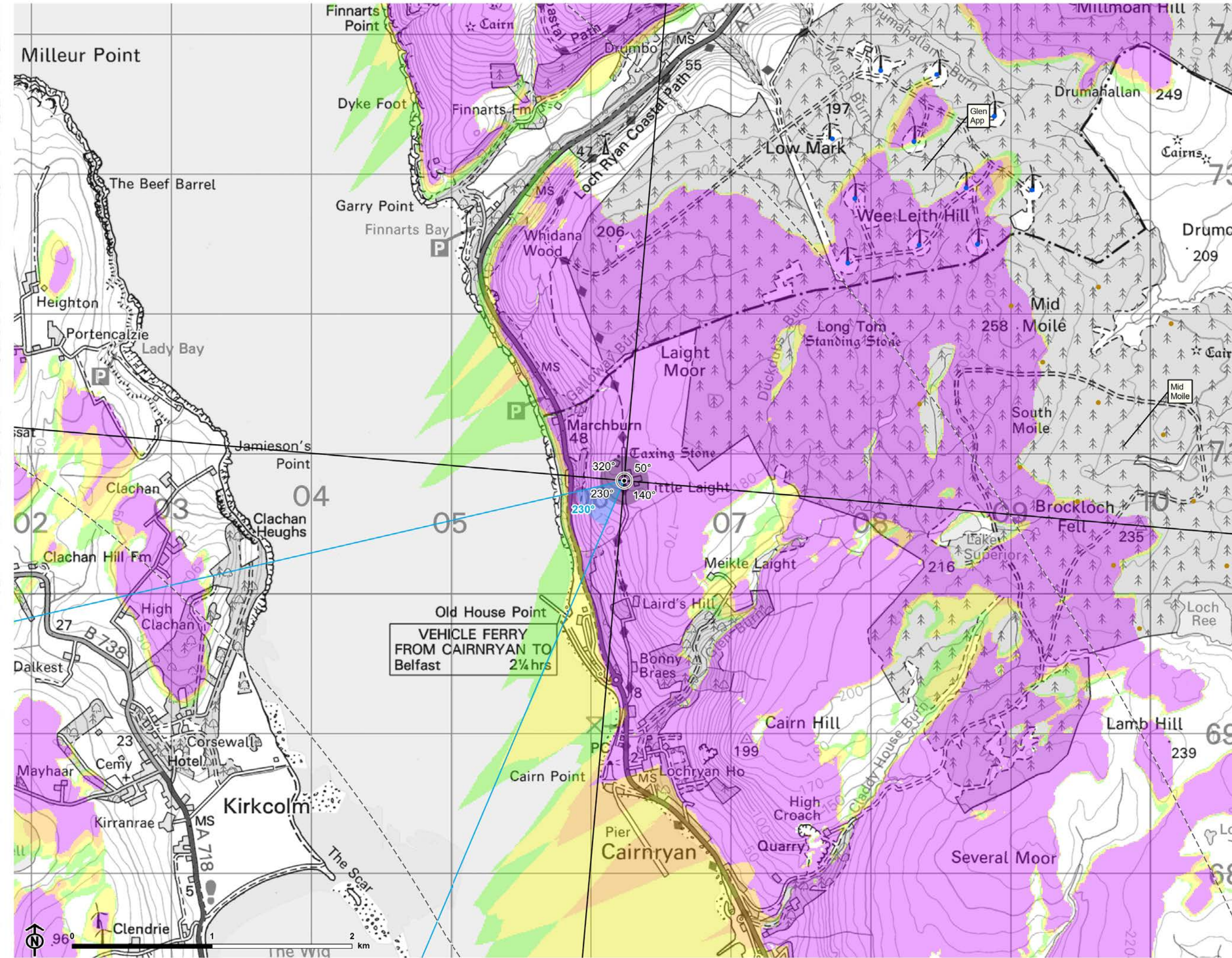
Wind Farm Developments key
(by status):

Proposed scheme
Operational

Larbrax Wind Farm
Figure: 5.2.16e
Viewpoint 16: Stranraer to Belfast Ferry



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Revised Larbrax Wind Farm EIA Report
for Ørsted Onshore UK Ltd



Figure 5.2.17
Viewpoint 17: Little Laight

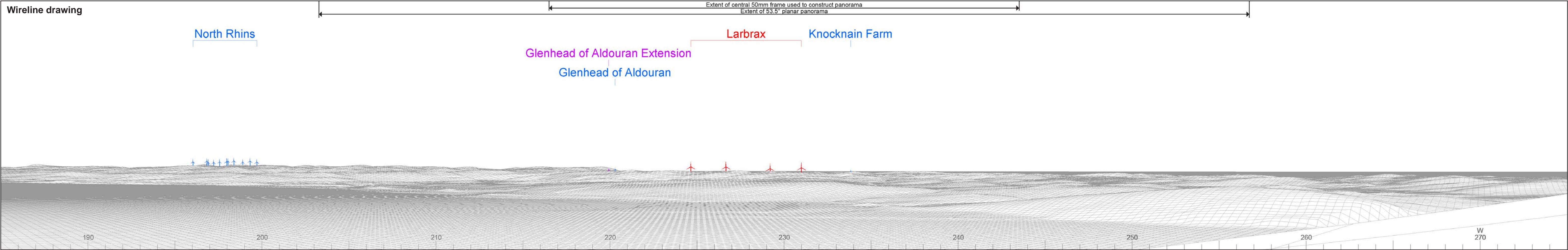
- Site boundary
- Turbine
- 5km intervals from outermost turbines
- 40km LVIA study area from outermost turbines
- Viewpoint location
- Zone of Theoretical Visibility**
 - 1 turbine visible
 - 2 turbines visible
 - 3 turbines visible
 - 4 turbines visible
- Wind farm layout (by status)**
 - Operational
 - Under Construction
 - Consented
 - Application Submitted
- 53.5° field of view
- 90° field of view

Notes:
With the exception of Glenhead of Aldouran (and its extension), turbines under 50m to tip have been excluded. Single turbine beyond 5km have been excluded. Scoping stage schemes have been excluded. Cumulative Wind Farm list fixed as of 28th May 2024.
The ZTV is calculated to individual turbine blade tip height (up to 149.9 m) from a viewing height of 2 m above ground level.
The terrain model assumes bare ground and is derived from OS Terrain 5 and OSNI 10m DTM height data.
Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcPro 3.2.0.



CB, EB,davies_h LUC 12469_EIA_VPMaps 16/10/2024
Source: Statkraft, LUC

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OS reference:	206238E 570808N	Horizontal field of view:	90° (cylindrical projection)	Camera:	
AOD:	166.3 m	Principal distance:	522 mm	Lens:	50mm Fixed Focal Length
Direction of view:	230°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	12.9 km	Correct printed image size:	820 x 260 mm		

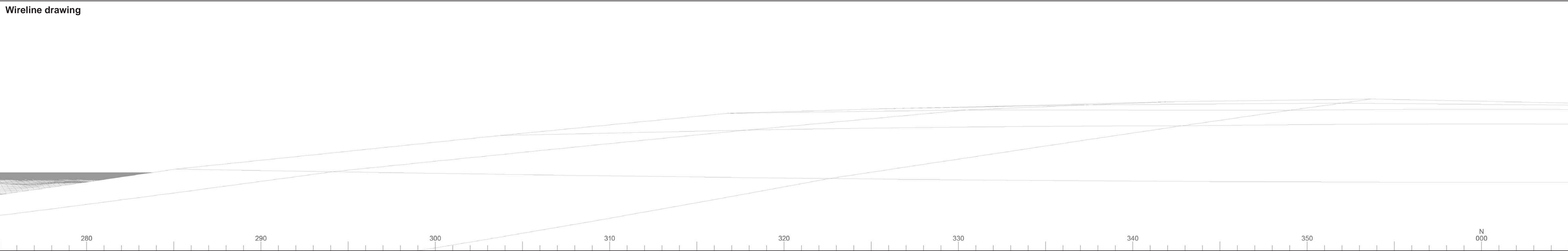
Wind Farm Developments key
(by status):

Proposed scheme	Application
Operational	
Under construction	
Consented	

Larbrax Wind Farm
Figure: 5.2.17a
Viewpoint 17: Little Laight

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Wireline drawing



OS reference: 206238E 570808N
AOD: 166.3 m
Direction of view: 320°
Nearest turbine: 12.9 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: 50mm Fixed Focal Length
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Note:
No proposed or cumulative wind turbines
visible in the view

Wind Farm Developments key
(by status):

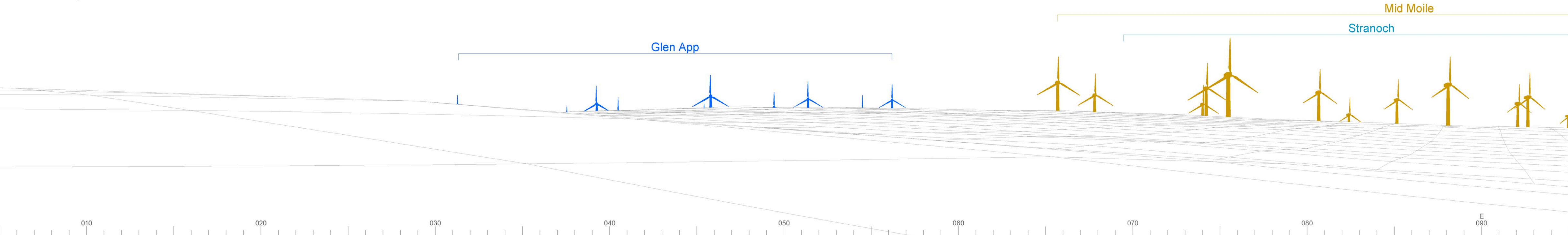
Proposed scheme
Operational
Under construction
Consented

Application

Larbrax Wind Farm
Figure: 5.2.17b
Viewpoint 17: Little Laight

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Wireline drawing



OS reference: 206238E 570808N
AOD: 166.3 m
Direction of view: 50°
Nearest turbine: 12.9 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

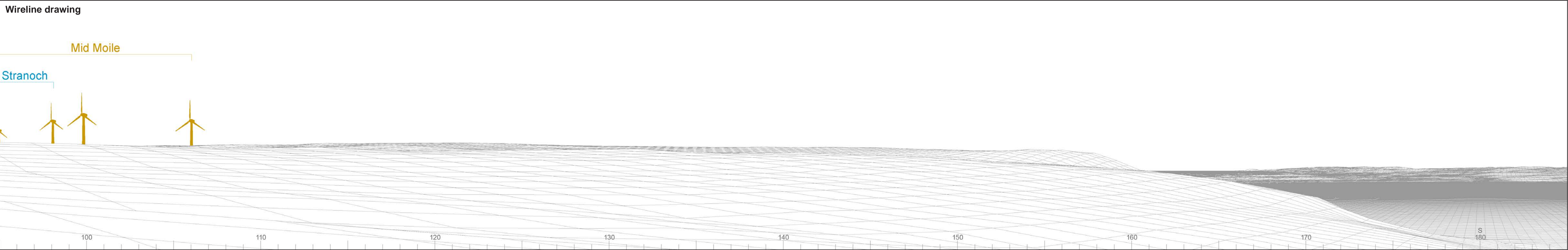
Camera: 50mm Fixed Focal Length
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Wind Farm Developments key
(by status):

Proposed scheme Application
Operational
Under construction
Consented

Larbrax Wind Farm
Figure: 5.2.17c
Viewpoint 17: Little Laight

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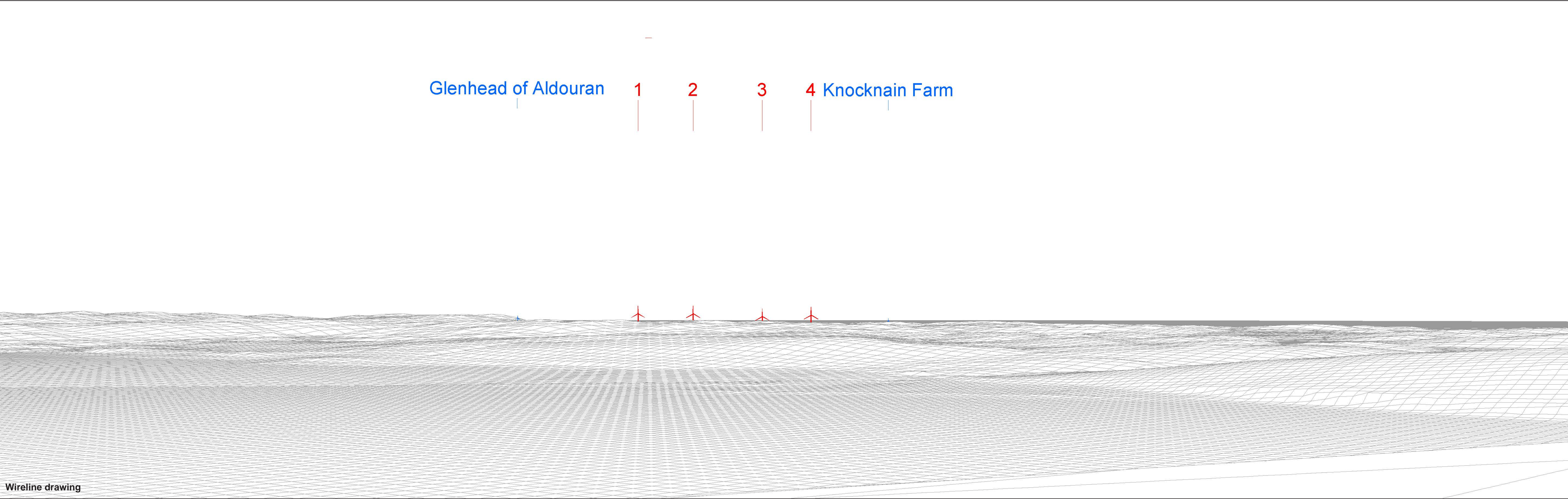
OS reference:	206238E 570808N	Horizontal field of view:	90° (cylindrical projection)	Camera:	
AOD:	166.3 m	Principal distance:	522 mm	Lens:	50mm Fixed Focal Length
Direction of view:	140°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	12.9 km	Correct printed image size:	820 x 260 mm		

Wind Farm Developments key
(by status):

Proposed scheme	Application
Operational	
Under construction	
Consented	

Larbrax Wind Farm
Figure: 5.2.17d
Viewpoint 17: Little Laight

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OS reference:	206238E 570808N	Horizontal field of view:	53.5° (planar projection)
AOD:	166.3 m	Principal distance:	812.5 mm
Direction of view:	230°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	12.9 km	Correct printed image size:	820 x 260 mm

Wind Farm Developments key
(by status):

Proposed scheme
Operational

Larbrax Wind Farm
Figure: 5.2.17e
Viewpoint 17: Little Laight

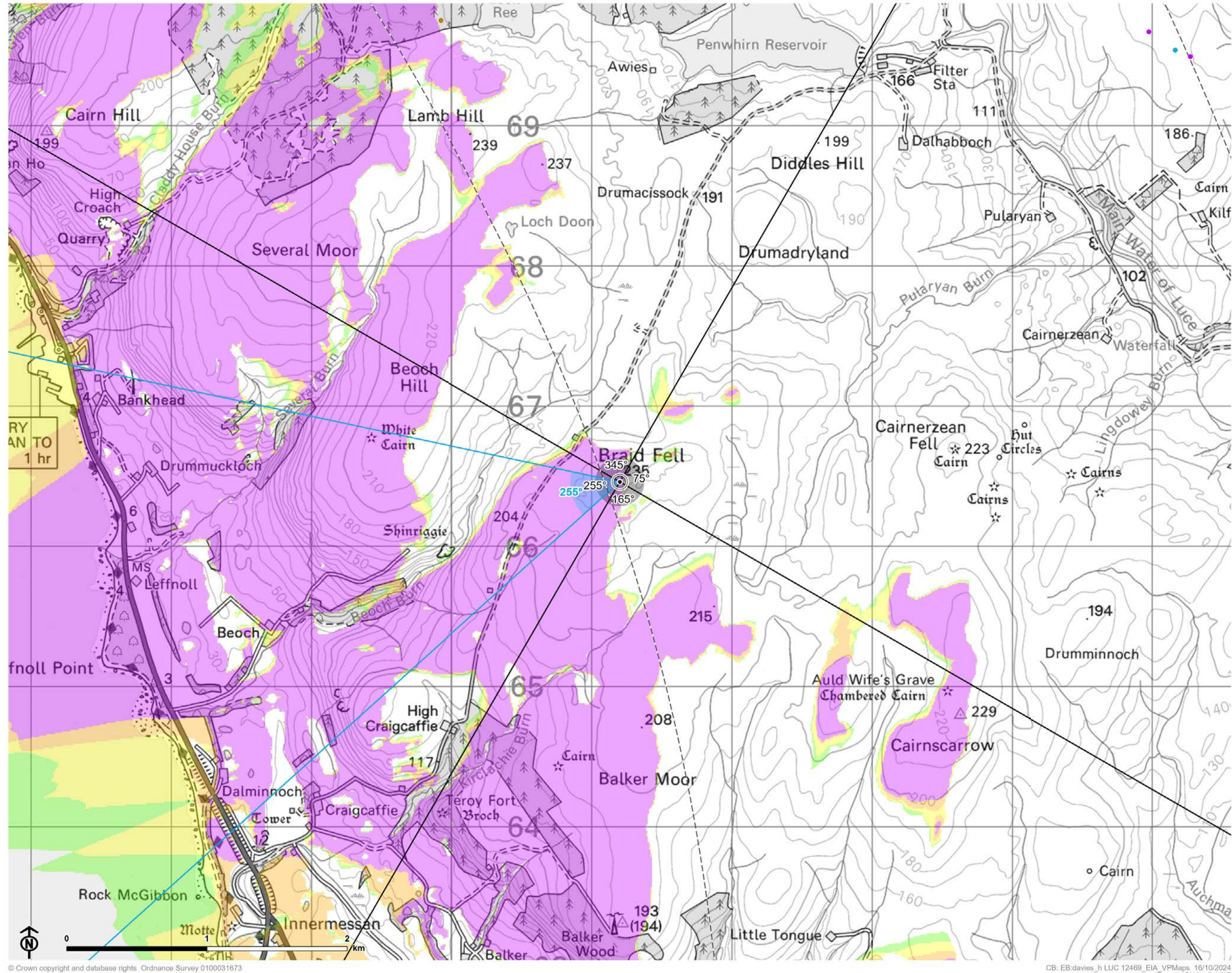
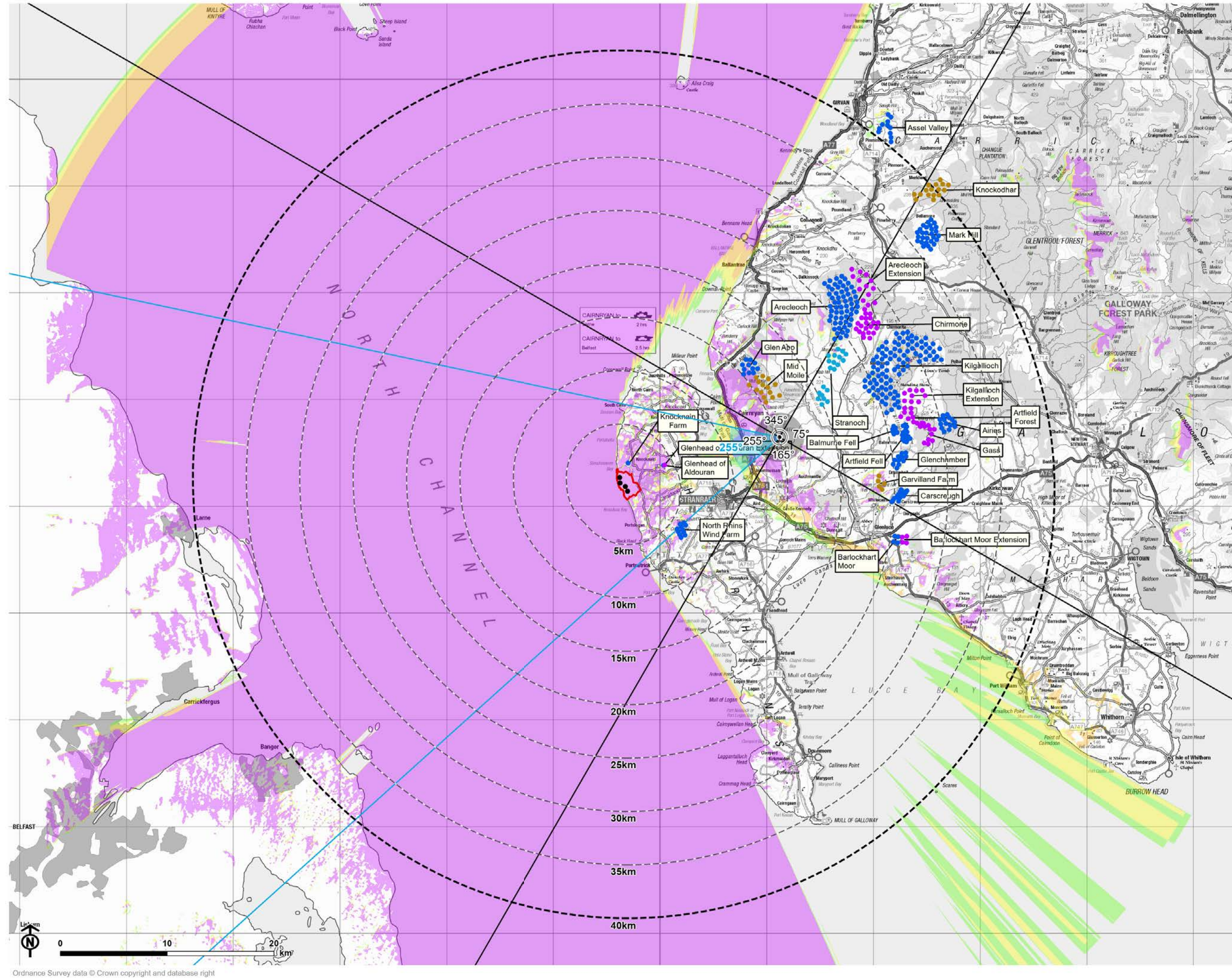
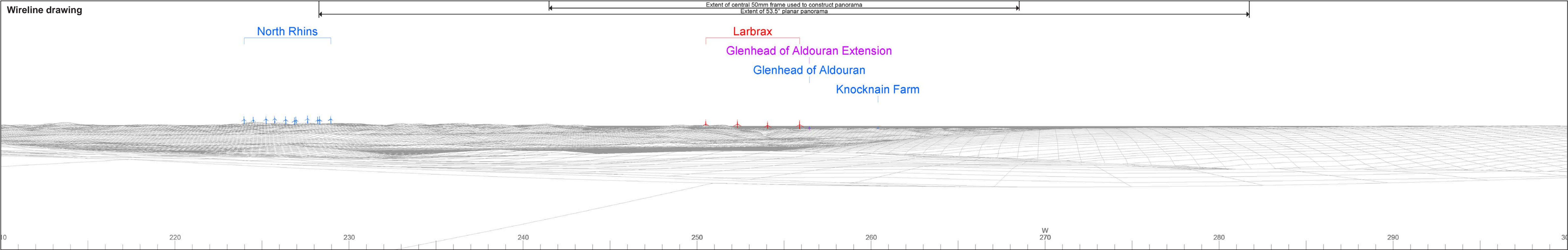


Figure: 5.2.18
Viewpoint 18: Braid Fell

- Site boundary
- Turbine
- 5km intervals from outermost turbines
- 40km LVIA study area from outermost turbines
- Viewpoint location
- Zone of Theoretical Visibility**
 - 1 turbine visible
 - 2 turbines visible
 - 3 turbines visible
 - 4 turbines visible
- Wind farm layout (by status)**
 - Operational
 - Under Construction
 - Consented
 - Application Submitted
- 53.5° field of view
- 90° field of view

Notes:
With the exception of Glenhead of Aldouran (and its extension), turbines under 50m to tip have been excluded. Single turbine beyond 5km have been excluded. Scoping stage schemes have been excluded. Cumulative Wind Farm list fixed as of 28th May 2024.
The ZTV is calculated to individual turbine blade tip height (up to 149.9 m) from a viewing height of 2 m above ground level.
The terrain model assumes bare ground and is derived from OS Terrain 5 and OSNI 10m DTM height data.
Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcPro 3.2.0.

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OS reference: 211201E 566459N
AOD: 233.8 m
Direction of view: 255°
Nearest turbine: 15.1 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: 50mm Fixed Focal Length
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

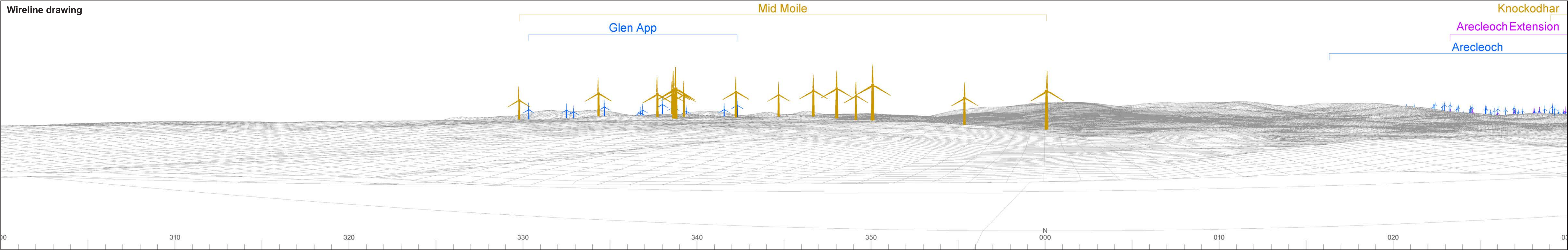
Wind Farm Developments key
(by status):

Proposed scheme
Operational
Under construction
Consented

Application

Larbrax Wind Farm
Figure: 5.2.18a
Viewpoint 18: Braid Fell

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OS reference: 211201E 566459N
AOD: 233.8 m
Direction of view: 345°
Nearest turbine: 15.1 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

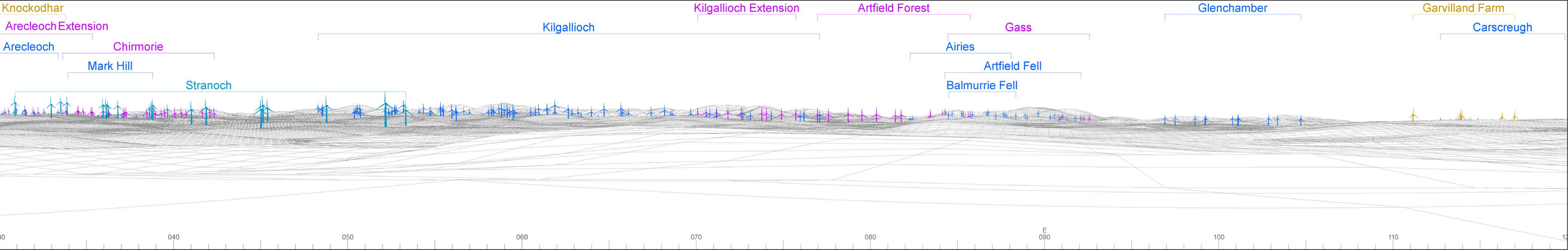
Camera: 50mm Fixed Focal Length
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Wind Farm Developments key
(by status):

Proposed scheme Application
Operational
Under construction
Consented

Larbrax Wind Farm
Figure: 5.2.18b
Viewpoint 18: Braid Fell

Wireline drawing



OS reference: 211201E 566459N
AOD: 233.8 m
Direction of view: 75°
Nearest turbine: 15.1 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: 50mm Fixed Focal Length
Lens: 50mm Fixed Focal Length
Camera height: 1.5 m

Wind Farm Developments key
(by status):

Proposed scheme
Operational
Under construction
Consented

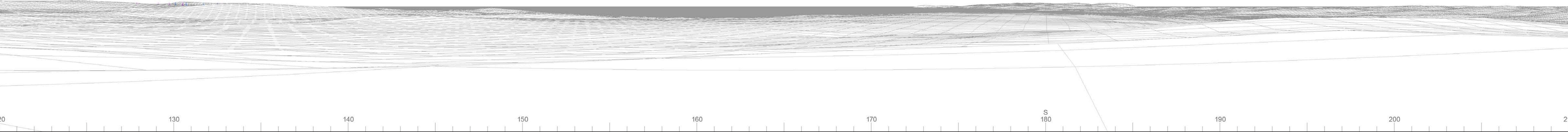
Application

Larbrax Wind Farm
Figure: 5.2.18c
Viewpoint 18: Braid Fell

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Wireline drawing

Barlockhart Moor Extension
Barlockhart Moor



OS reference:	211201E 566459N	Horizontal field of view:	90° (cylindrical projection)	Camera:	
AOD:	233.8 m	Principal distance:	522 mm	Lens:	50mm Fixed Focal Length
Direction of view:	165°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	15.1 km	Correct printed image size:	820 x 260 mm		

Wind Farm Developments key
(by status):

Proposed scheme	Application
Operational	
Under construction	
Consented	

Larbrax Wind Farm
Figure: 5.2.18d
Viewpoint 18: Braid Fell

North Rhins

Glenhead of Aldouran

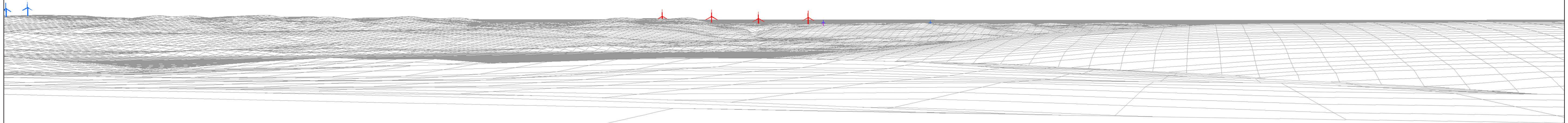
Knocknain Farm

1

2

3

4



Wireline drawing



OS reference: 211201E 566459N
AOD: 233.8 m
Direction of view: 255°
Nearest turbine: 15.1 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

Wind Farm Developments key
(by status):

Proposed scheme
Operational

Larbrax Wind Farm
Figure: 5.2.18e
Viewpoint 18: Braid Fell