



**Code:** UKCAL-CWF-CON-EIA-RPT-00007-7D07

## **Volume 7D Caledonia South Appendices**

Appendix 12-3 Seascape, Landscape and Visual Impact Assessment Visualisations  
(Part 2)

Caledonia Offshore Wind Farm Ltd

5th Floor Atria One, 144 Morrison Street, Edinburgh, EH3 8EX



# Volume 7D Appendix 12-3 Seascape, Landscape and Visual Impact Assessment Visualisations (Part 2)

<b>Code</b>	UKCAL-CWF-CON-EIA-RPT-00007-7D07
<b>Revision</b>	Issued
<b>Date</b>	18 October 2024

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Figure 12–8: Viewpoint 8: Whaligoe Steps.

Figure 12–9: Viewpoint 9: Lybster.

Figure 12–10: Viewpoint 10: Dunbeath.

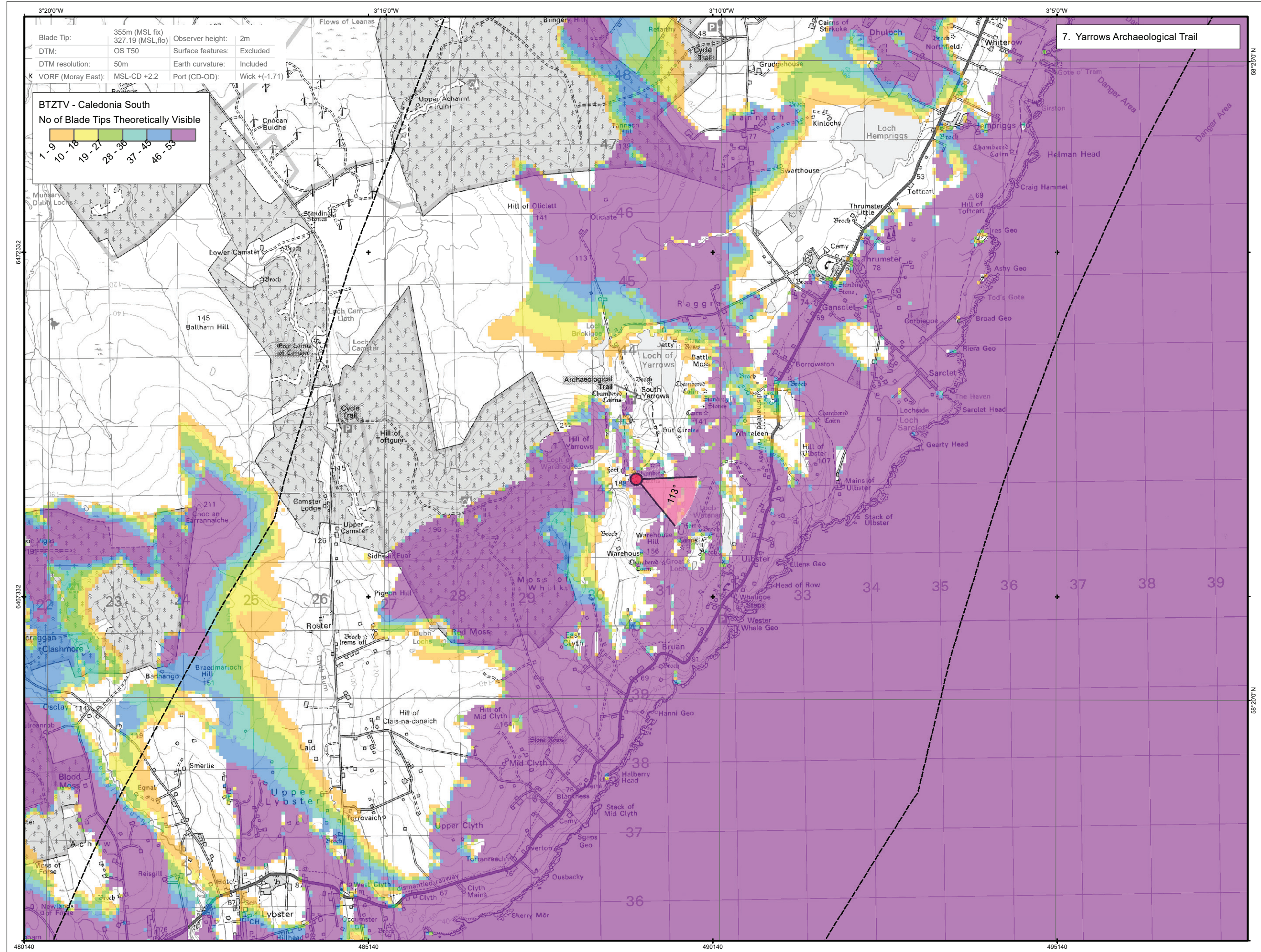
# Acronyms and Abbreviations

<b>BTZTV</b>	Blade Tip Zone of Theoretical Visibility
<b>OSP</b>	Offshore Substation Platform





Viewpoint Location Plan Baseline Panorama (90° View)  
Scale: 1:200,000



Viewpoint Location Plan (53.5° View)  
Scale: 1:50,000

90°Field of View

53.5°Field of View

Caledonia South Fixed/Floating

Fixed (24 x 25MW)

Floating (29 x 20MW)

OSP

Caledonia South

Caledonia North

Offshore and Onshore Export Cable Corridor

10km Radii

60km Study Area

Cumulative Windfarms Status:

Operational

Under Construction

Consented

Appeal / Application

Operational

Under Construction

Consented

Appeal / Application

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Sinclair's Bay

Wick

East Caimness Cliffs Marine Protected Area

78

0 2 4 6 8 10 km

0 0.5 1 1.5 2 km

03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT
REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP

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CONTRACTOR DRAWING NO  
UKCAL1\_OPN\_WNF\_ENV\_SLV\_MAP\_00139

CONTRACTOR REV  
03

GEODETIC PARAMETERS  
WGS 1984 UTM Zone 30N (EPSG:32630)

DRAWING TITLE  
Figure 12-7a - Viewpoint Plan  
7. Yarrows Archaeological Trail

Caledonia South

STATUS  
Approved

DRAWING NUMBER  
N/A

SCALE  
1:200,000  
1:50,000

SHEET NO  
07 of 22

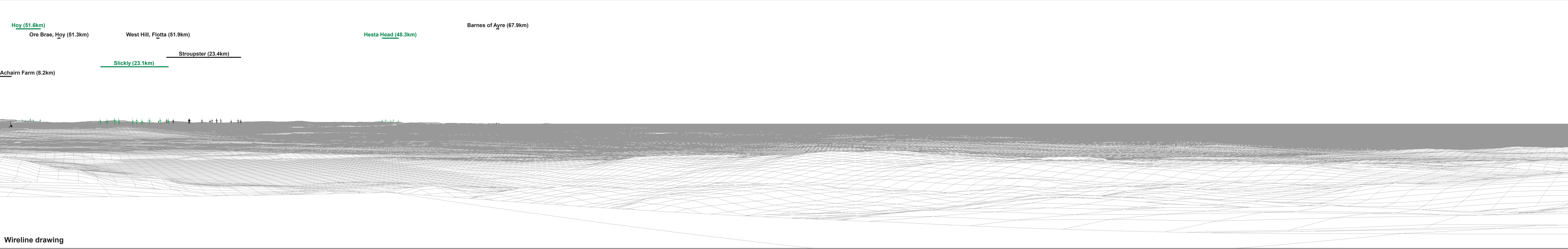
REV  
N/A





Baseline photograph

This image provides landscape and visual context only



Wireline drawing

<b>OS reference:</b> 330611 E 942133 N		<b>Horizontal field of view:</b> 90° (cylindrical projection)		<b>Camera:</b> Canon EOS 5D Mark II	
<b>Eye level:</b> 182.1 mAOD		<b>Principal distance:</b> 522 mm		<b>Lens:</b> Canon EF 50mm f/1.4	
<b>Direction of view:</b> 41°		<b>Paper size:</b> 841 x 297 mm (half A1)		<b>Camera height:</b> 1.5 m	
<b>Nearest turbine:</b> 45.68 km		<b>Correct printed image size:</b> 820 x 130 mm		<b>Date and time:</b> 11.12.2023 13:02	

**Figure: 12.7b**

**Viewpoint 7: Yarrows Archaeological Trail**

**Caledonia South**

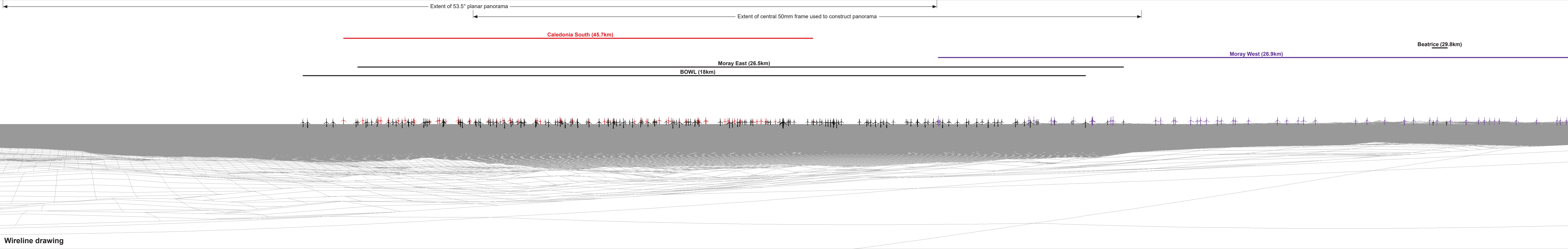
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Baseline photograph

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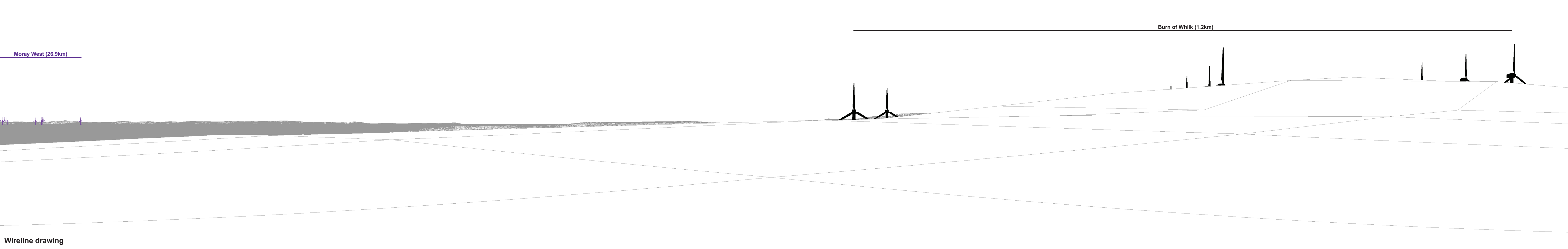
Wireline drawing





Baseline photograph

This image provides landscape and visual context only



Wireline drawing

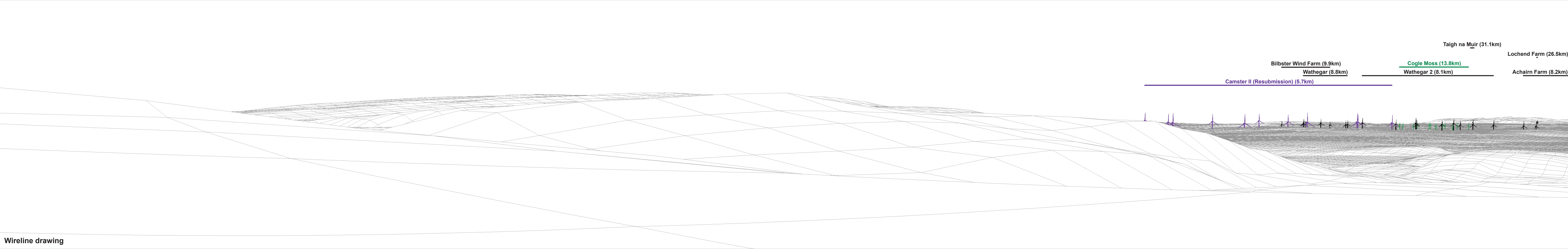
OS reference:	330611 E 942133 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II	Figure: 12.7d
Eye level:	182.1 mAOD	Principal distance:	522 mm	Lens:	Canon EF 50mm f/1.4	Viewpoint 7: Yarrows Archaeological Trail
Direction of view:	221°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m	Caledonia South
Nearest turbine:	45.68 km	Correct printed image size:	820 x 130 mm	Date and time:	11.12.2023 13:02	© Crown copyright, All rights reserved (2023). Licence number 0100031673





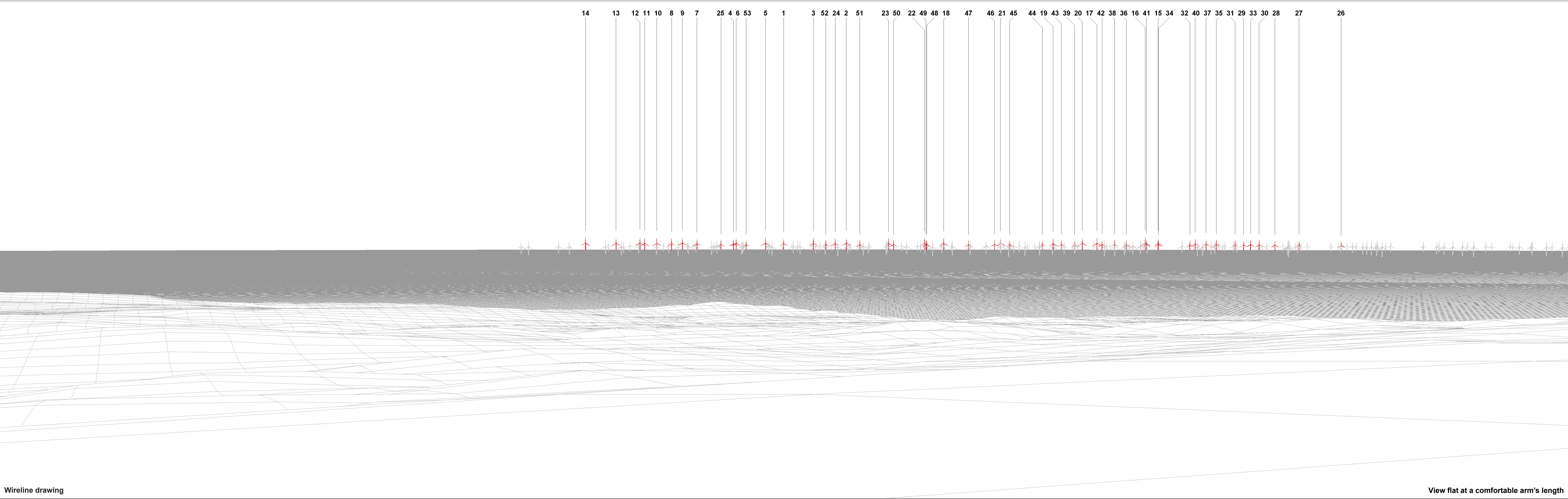
Baseline photograph

This image provides landscape and visual context only



Wireline drawing









Baseline photograph.

View flat at a comfortable arm's length

OS reference:	330611 E 942133 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mark II
Eye level:	182.1 mAOD	Principal distance:	812.5 mm	Lens:	Canon EF 50mm f/1.4
Direction of view:	113°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	45.68 km	Correct printed image size:	820 x 260 mm	Date and time:	11.12.2023 13:02

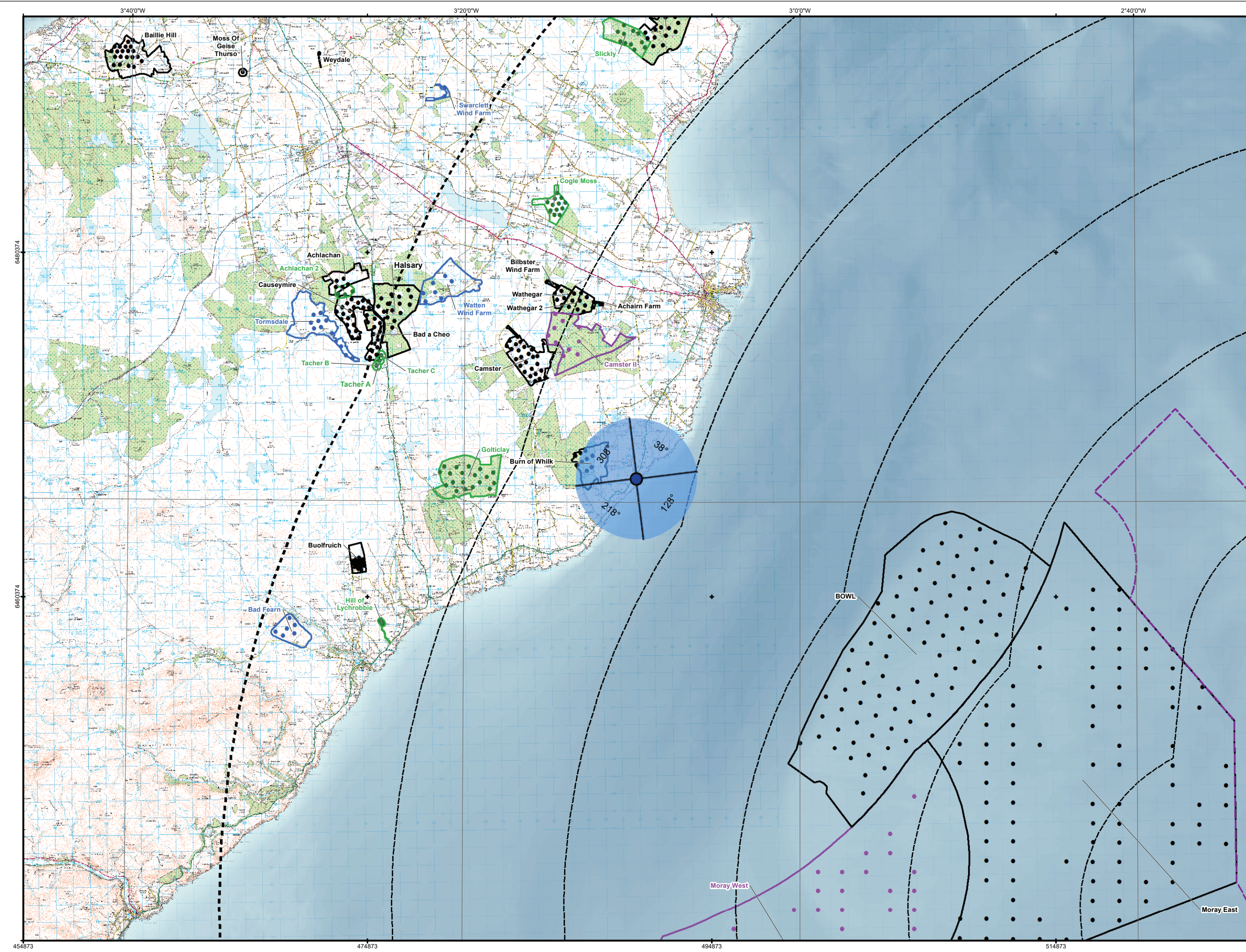
Operational and Under Construction offshore wind farms  
have been photomontaged in this view.

Figure: 12.7g  
Viewpoint 7: Yarrows Archaeological Trail  
Caledonia South  
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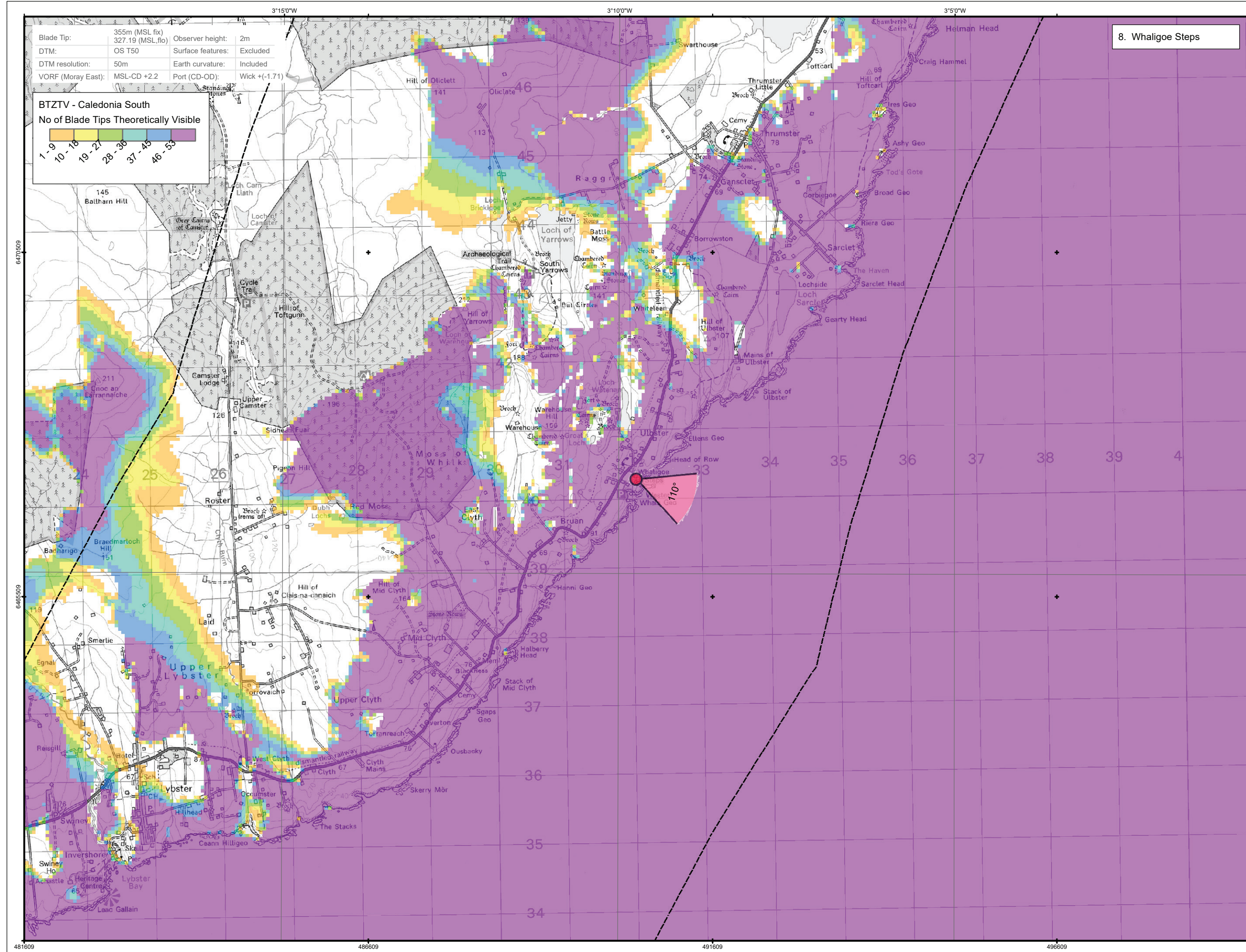








Viewpoint Location Plan Baseline Panorama (90° View)  
Scale: 1:200,000



Viewpoint Location Plan (53.5° View)  
Scale: 1:50,000

90°Field of View

53.5°Field of View

Caledonia South Fixed/Floating

Fixed (24 x 25MW)

Floating (29 x 20MW)

OSP

Caledonia South

Caledonia North

Offshore and Onshore Export Cable Corridor

10km Radii

60km Study Area

Cumulative Windfarms Status:

Operational

Under Construction

Consented

Appeal / Application

Operational

Under Construction

Consented

Appeal / Application

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0 2 4 6 8 10

0 0.5 1 1.5 2

km

km

03 26/09/2024 Approved RH LT LT

02 10/07/2024 For Review RH LT LT

01 10/05/2024 For Review RH LT LT

REV DATE DOC STATUS ORIGIN REVIEW APP

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UKCAL1\_OPN\_WNF\_ENV\_SLV\_MAP\_00140

CONTRACTOR REV  
03

GEODETIC PARAMETERS  
WGS 1984 UTM Zone 30N (EPSG:32630)

DRAWING TITLE  
Figure 12-8a - Viewpoint Plan  
8. Whalgie Steps

Caledonia South

STATUS  
Approved

DRAWING NUMBER  
N/A

SCALE  
1:200,000  
1:50,000

SHEET NO  
08 of 22

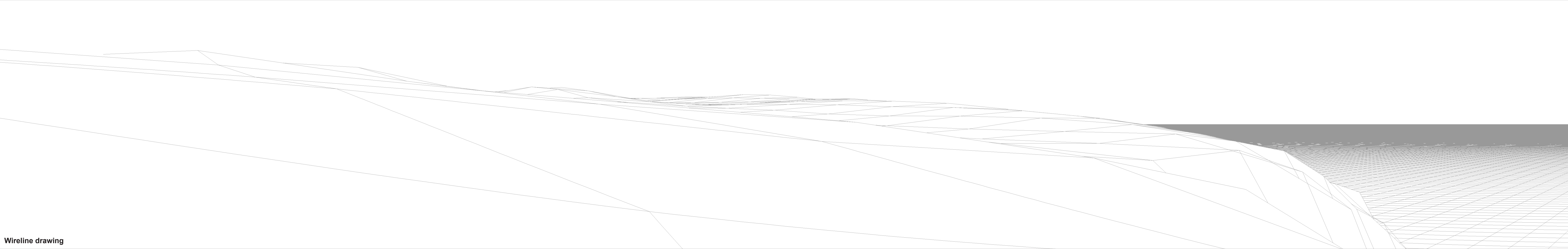
REV  
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Baseline photograph

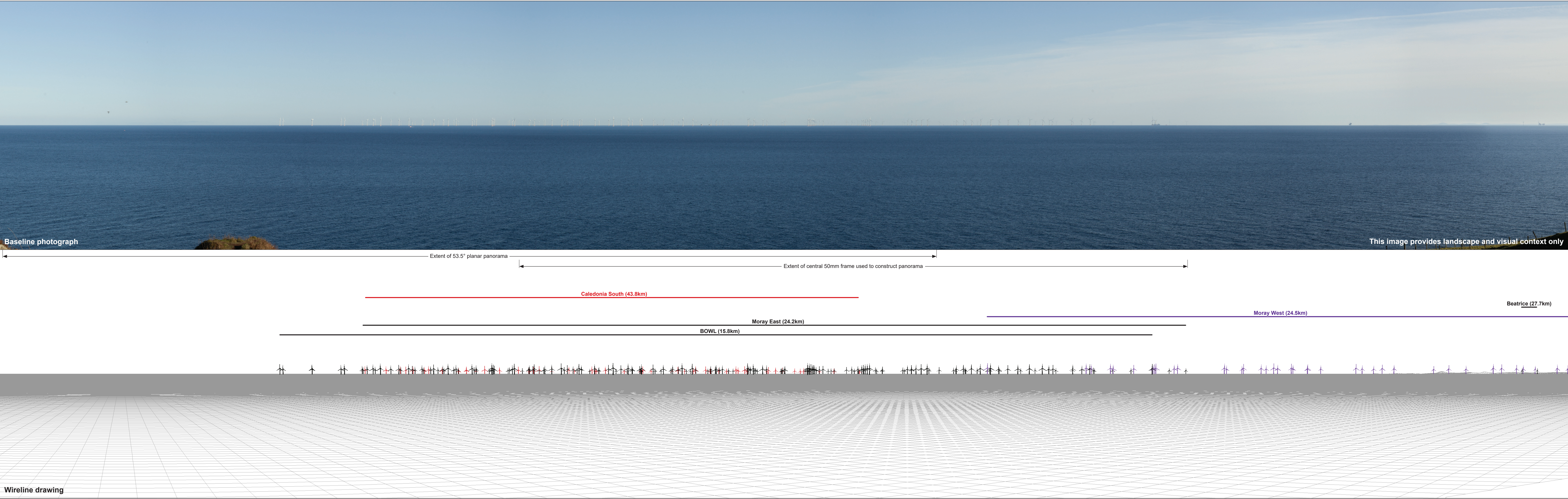
This image provides landscape and visual context only



Wireline drawing

OS reference: Eye level: Direction of view: Nearest turbine:	332053 E 940288 N 64.8 mAOD 38° 43.76 km	Horizontal field of view: Principal distance: Paper size: Correct printed image size:	90° (cylindrical projection) 522 mm 841 x 297 mm (half A1) 820 x 130 mm	Camera: Lens: Camera height: Date and time:	Canon EOS 5D Mark II Canon EF 50mm f/1.4 1.5 m 17.10.2023 14:16	Figure: 12.8b Viewpoint 8: Whaligoe Steps Caledonia South





<b>OS reference:</b> 332053 E 940288 N	<b>Horizontal field of view:</b> 90° (cylindrical projection)	<b>Camera:</b> Canon EOS 5D Mark II
<b>Eye level:</b> 64.8 mAOD	<b>Principal distance:</b> 522 mm	<b>Lens:</b> Canon EF 50mm f/1.4
<b>Direction of view:</b> 128°	<b>Paper size:</b> 841 x 297 mm (half A1)	<b>Camera height:</b> 1.5 m
<b>Nearest turbine:</b> 43.76 km	<b>Correct printed image size:</b> 820 x 130 mm	<b>Date and time:</b> 17.10.2023 14:16

**Figure: 12.8c**  
**Viewpoint 8: Whaligoe Steps**  
**Caledonia South**

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Baseline photograph

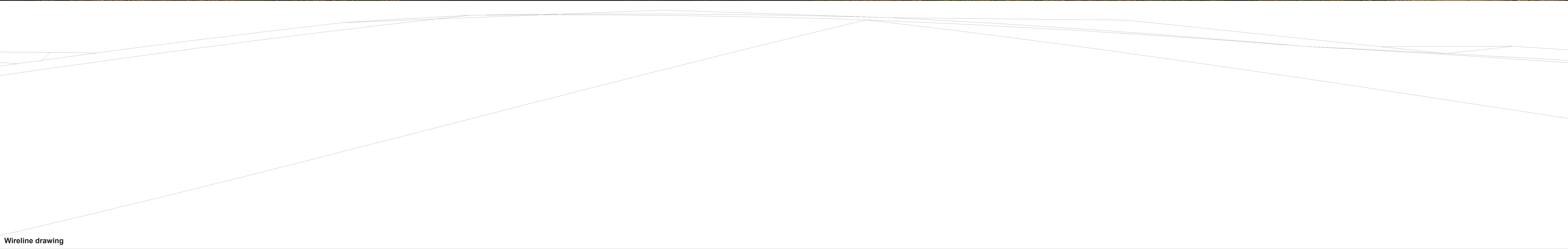
This image provides landscape and visual context only



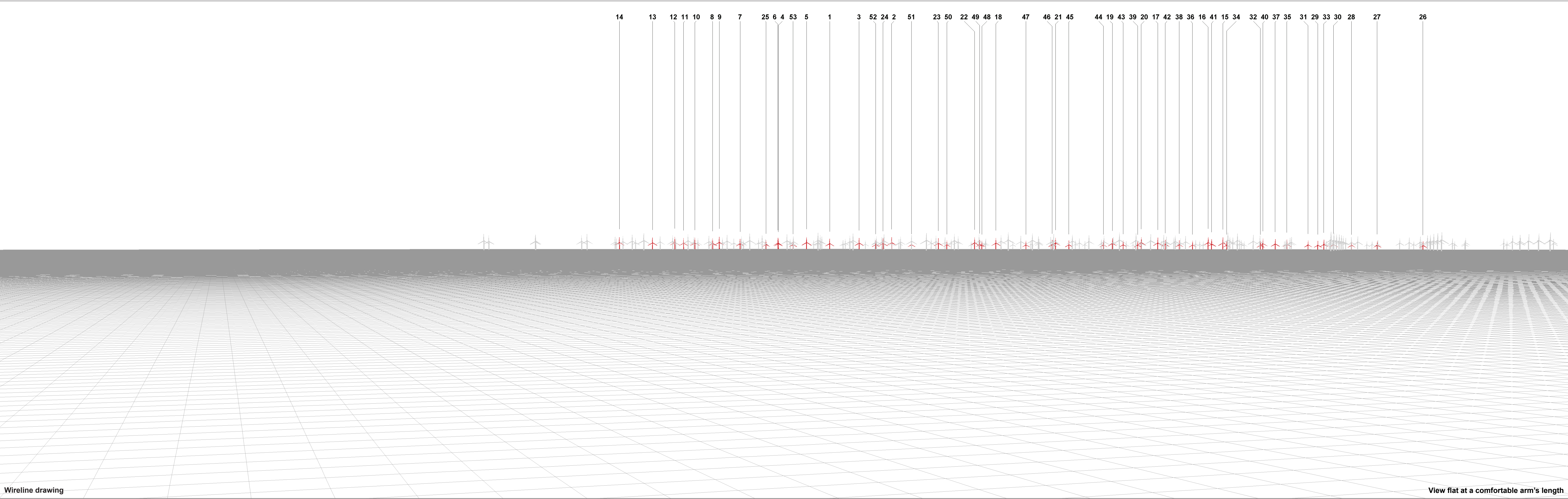
Wireline drawing

OS reference:	332053 E 940288 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II	Figure: 12.8d
Eye level:	64.8 mAOD	Principal distance:	522 mm	Lens:	Canon EF 50mm f/1.4	Viewpoint 8: Whaligoe Steps
Direction of view:	218°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m	Caledonia South
Nearest turbine:	43.76 km	Correct printed image size:	820 x 130 mm	Date and time:	17.10.2023 14:16	













Baseline photograph.

View flat at a comfortable arm's length

OS reference:	332053 E 940288 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mark II
Eye level:	64.8 mAOD	Principal distance:	812.5 mm	Lens:	Canon EF 50mm f/1.4
Direction of view:	110°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	43.76 km	Correct printed image size:	820 x 260 mm	Date and time:	17.10.2023 14:16

Operational and Under Construction offshore wind farms have been photomontaged in this view.

Figure: 12.8g  
Viewpoint 8: Whaligoe Steps  
Caledonia South



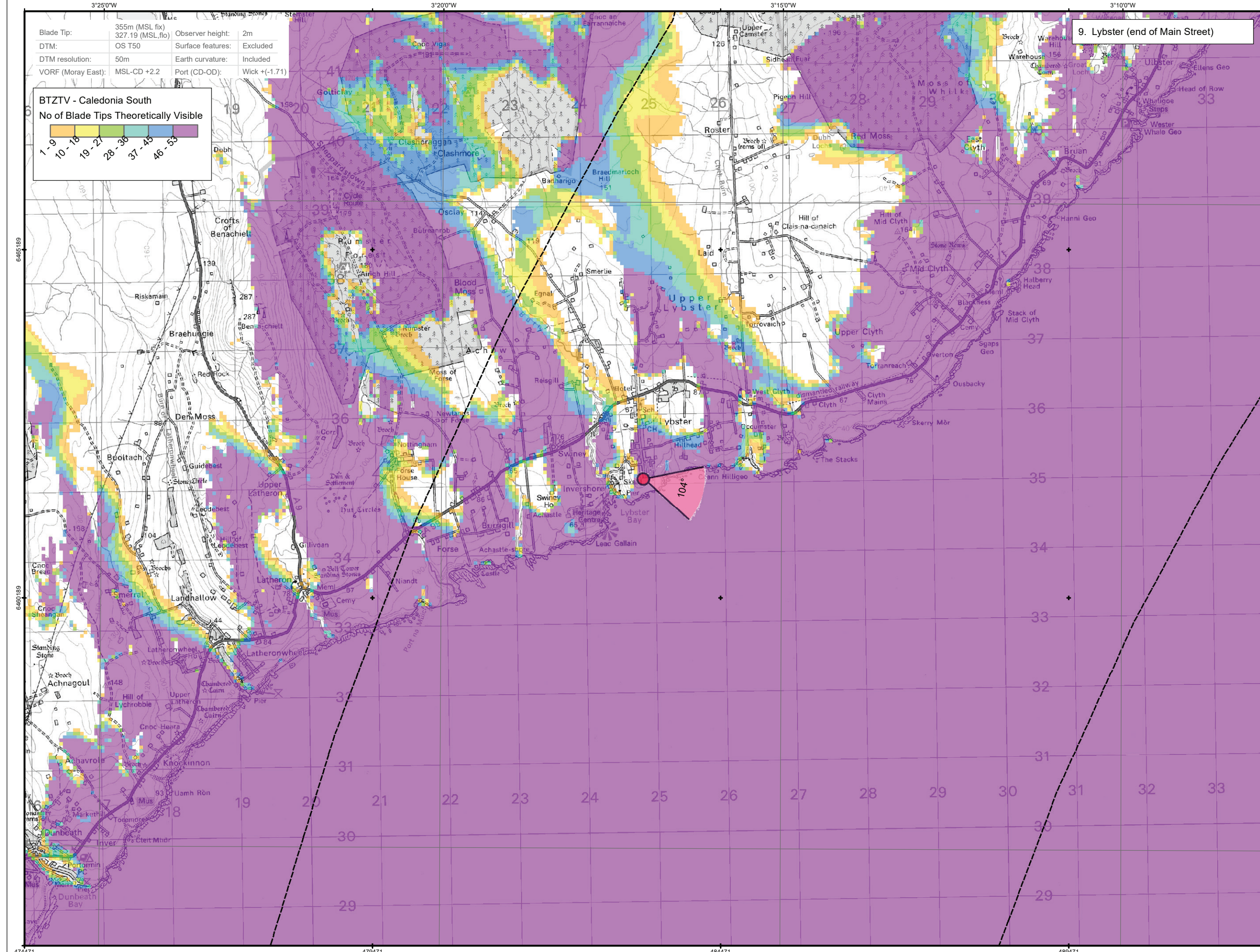
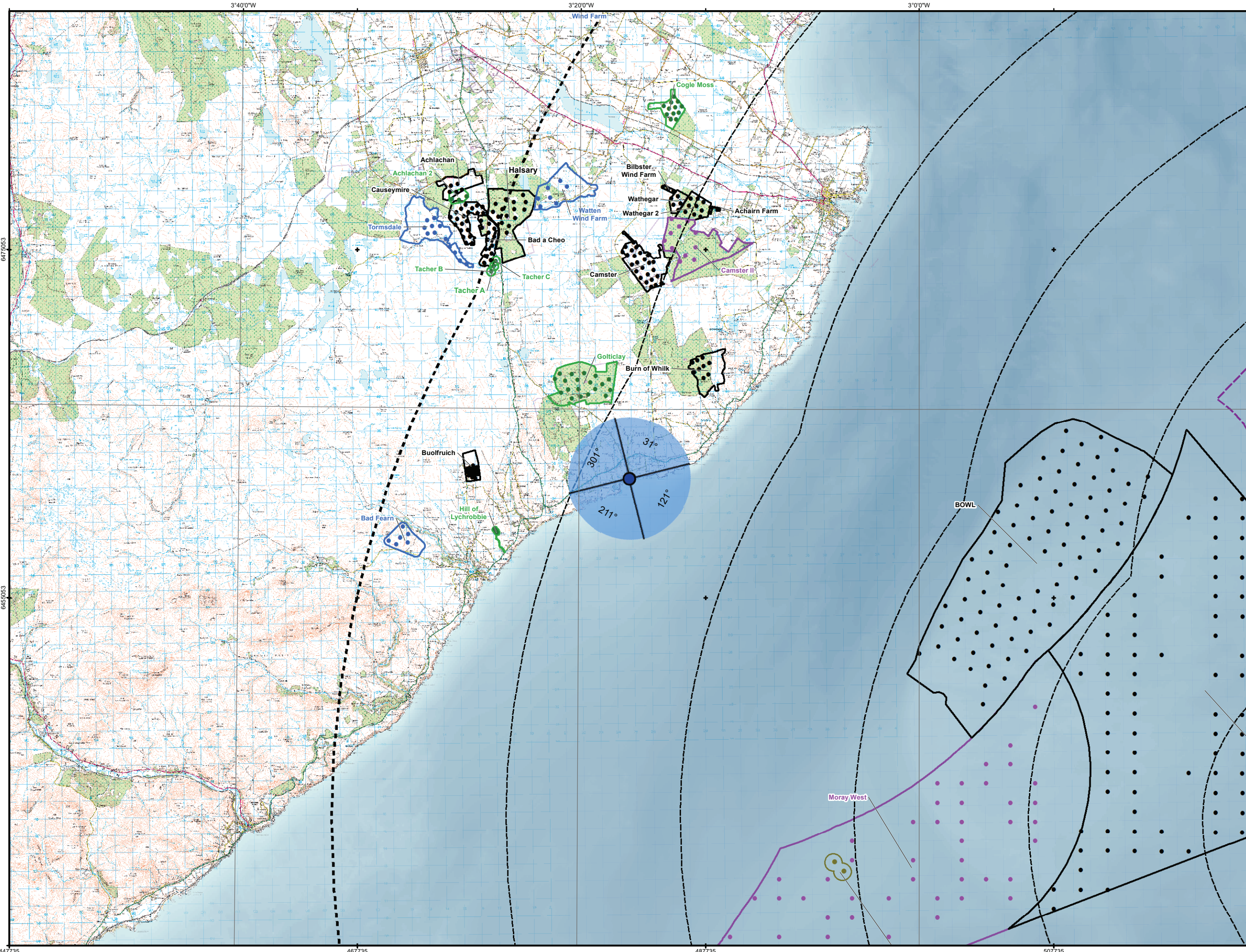


<b>OS reference:</b>	332053 E 940288 N	<b>Horizontal field of view:</b>	53.5° (planar projection)	<b>Camera:</b>	Canon EOS 5D Mark II
<b>Eye level:</b>	64.8 mAOD	<b>Principal distance:</b>	812.5 mm	<b>Lens:</b>	Canon EF 50mm f/1.4
<b>Direction of view:</b>	110°	<b>Paper size:</b>	841 x 297 mm (half A1)	<b>Camera height:</b>	1.5 m
<b>Nearest turbine:</b>	43.76 km	<b>Correct printed image size:</b>	820 x 260 mm	<b>Date and time:</b>	17.10.2023 14:16

**Operational and Under Construction offshore wind farms have been photomontaged in this view.**

**Figure: 12.8h**  
**Viewpoint 8: Whaligoe Steps**  
**Caledonia South**  
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90° Field of View  
53.5° Field of View

Caledonia South  
Fixed/Floating

- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- OSP's

Cumulative Windfarms Status:

- Operational
- Under Construction
- Consented
- Appeal / Application
- Inactive / Decommissioned

Legend:

- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Operational
- Under Construction
- Consented
- Appeal / Application
- Inactive / Decommissioned

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East Cullinness Cliffs Marine Protected Area

0 2 4 6 8 10 km  
0 0.5 1 1.5 2 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

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UKCAL1\_OPN\_WNF\_ENV\_SLV\_MAP\_00141 03

CONTRACTOR REV

GEODETIC PARAMETERS  
WGS 1984 UTM Zone 30N (EPSG:32630)

DRAWING TITLE  
Figure 12-9a - Viewpoint Plan  
9. Lybster (end of Main Street)

Caledonia South

STATUS  
Approved

DRAWING NUMBER  
N/A

SCALE  
1:200,000  
1:50,000

SHEET NO  
09 of 22

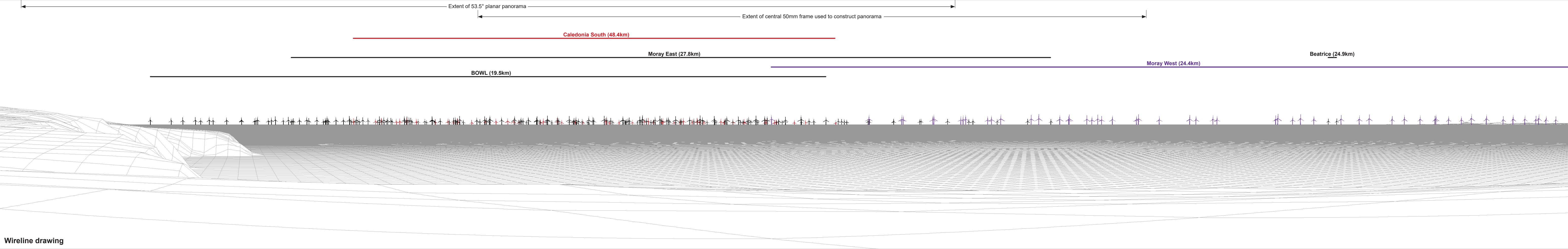
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N/A





Baseline photograph

This image provides landscape and visual context only



Wireline drawing

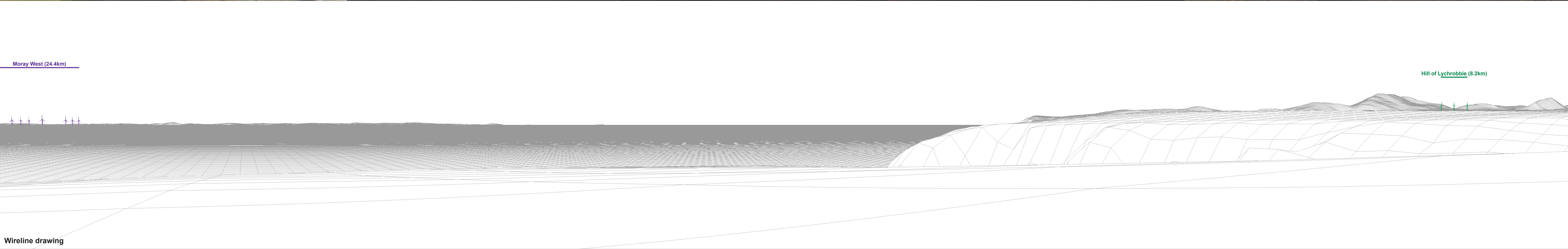
OS reference:	324836 E 935074 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II	Figure: 12.9b
Eye level:	57.7 mAOD	Principal distance:	522 mm	Lens:	Canon EF 50mm f/1.4	Viewpoint 9: Lybster (end of Main Street)
Direction of view:	121°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m	Caledonia South
Nearest turbine:	48.40 km	Correct printed image size:	820 x 130 mm	Date and time:	16.10.2023 12:08	© Crown copyright. All rights reserved (2023). Licence number 0100031673





Baseline photograph

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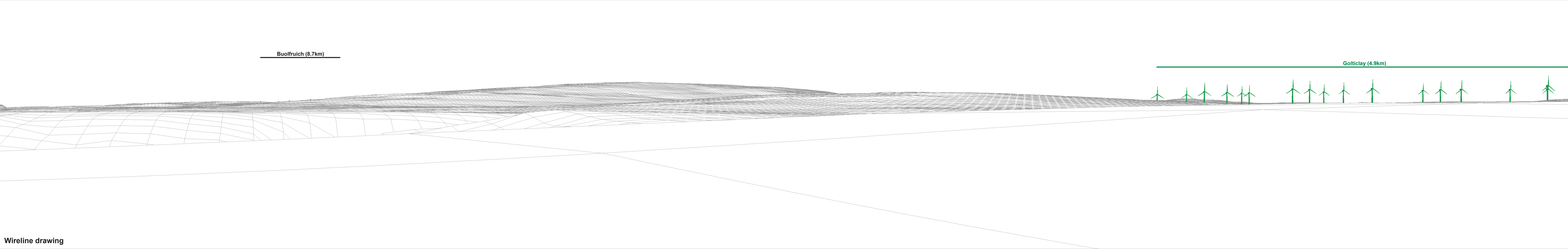
Wireline drawing





Baseline photograph

This image provides landscape and visual context only



Wireline drawing

OS reference:	324836 E 935074 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II	Figure: 12.9d
Eye level:	57.7 mAOD	Principal distance:	522 mm	Lens:	Canon EF 50mm f/1.4	Viewpoint 9: Lybster (end of Main Street)
Direction of view:	301°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m	Caledonia South
Nearest turbine:	48.40 km	Correct printed image size:	820 x 130 mm	Date and time:	16.10.2023 12:08	© Crown copyright, All rights reserved (2023). Licence number 0100031673





Baseline photograph

This image provides landscape and visual context only

Golticlay (4.9km)



Burn of Whilk (7.2km)



Wireline drawing

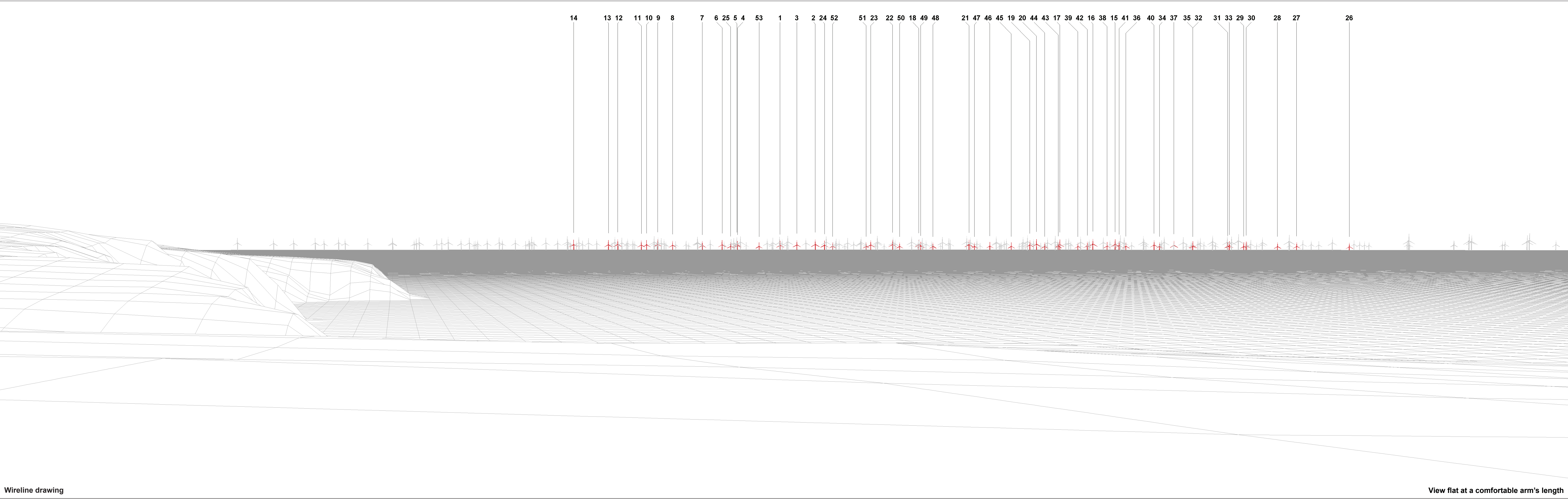
**OS reference:** 324836 E 935074 N  
**Eye level:** 57.7 mAOD  
**Direction of view:** 31°  
**Nearest turbine:** 48.40 km

**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 130 mm

**Camera:** Canon EOS 5D Mark II  
**Lens:** Canon EF 50mm f/1.4  
**Camera height:** 1.5 m  
**Date and time:** 16.10.2023 12:08

**Figure: 12.9e**  
**Viewpoint 9: Lybster (end of Main Street)**  
**Caledonia South**  
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Baseline photograph.

View flat at a comfortable arm's length

OS reference:	324836 E 935074 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mark II
Eye level:	57.7 mAOD	Principal distance:	812.5 mm	Lens:	Canon EF 50mm f/1.4
Direction of view:	104°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	48.40 km	Correct printed image size:	820 x 260 mm	Date and time:	16.10.2023 12:08

Operational and Under Construction offshore wind farms  
have been photomontaged in this view.

Figure: 12.9g  
Viewpoint 9: Lybster (end of Main Street)  
Caledonia South

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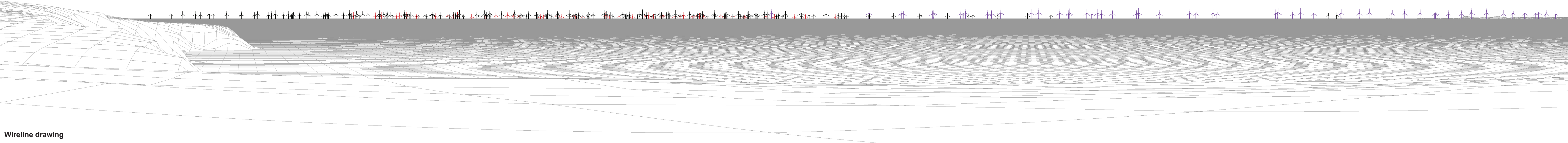
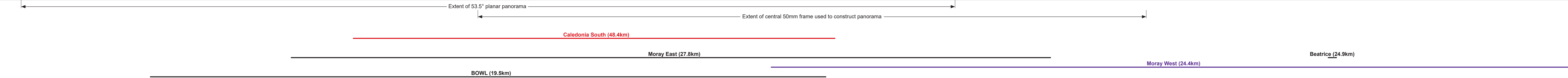






Baseline photograph

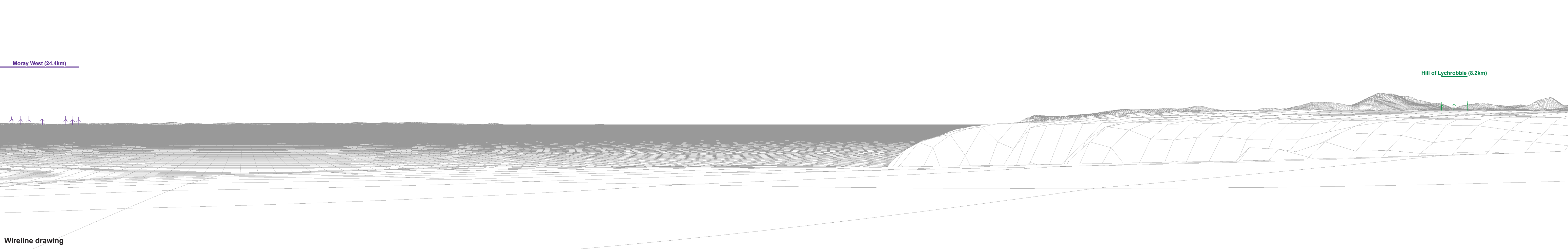
This image provides landscape and visual context only



Wireline drawing

OS reference:	324836 E 935074 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II	Figure: 12.9i
Eye level:	57.7 mAOD	Principal distance:	522 mm	Lens:	Canon EF 50mm f/1.4	Viewpoint 9: Lybster (end of Main Street)
Direction of view:	121°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m	Caledonia South
Nearest turbine:	48.40 km	Correct printed image size:	820 x 130 mm	Date and time:	17.10.2023 19:00	© Crown copyright, All rights reserved (2023). Licence number 0100031673



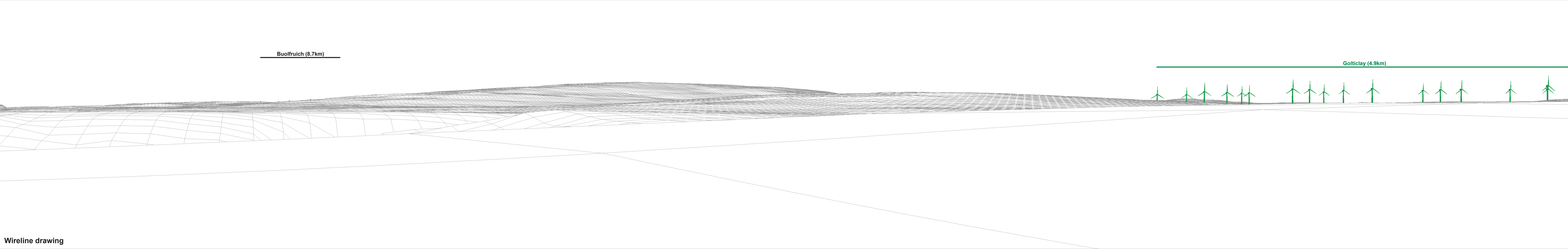






Baseline photograph

This image provides landscape and visual context only



Wireline drawing





Baseline photograph

This image provides landscape and visual context only

Golticlay (4.9km)



Burn of Whilk (7.2km)

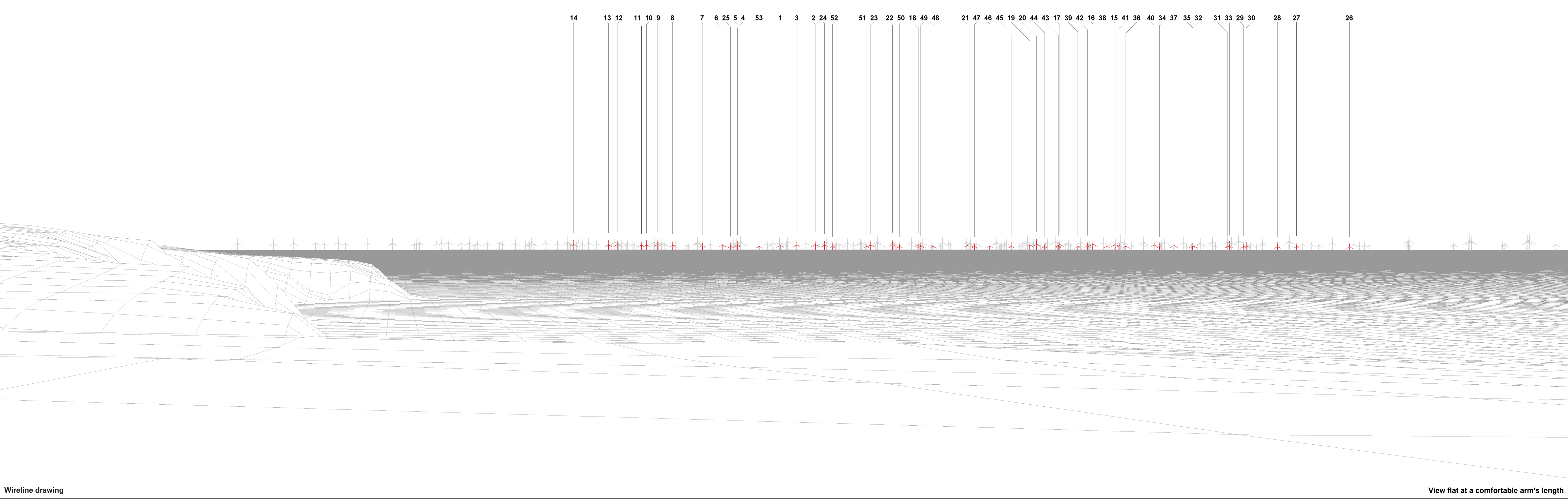


Wireline drawing

OS reference:	324836 E 935074 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II
Eye level:	57.7 mAOD	Principal distance:	522 mm	Lens:	Canon EF 50mm f/1.4
Direction of view:	31°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	48.40 km	Correct printed image size:	820 x 130 mm	Date and time:	17.10.2023 19:00

**Figure: 12.9I**  
**Viewpoint 9: Lybster (end of Main Street)**  
**Caledonia South**  
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Baseline photograph.

View flat at a comfortable arm's length

<b>OS reference:</b>	324836 E 935074 N	<b>Horizontal field of view:</b>	53.5° (planar projection)	<b>Camera:</b>	Canon EOS 5D Mark II	<b>Operational and Under Construction offshore wind farms have been photomontaged in this view.</b>	<b>Figure: 12.9n</b> <b>Viewpoint 9: Lybster (end of Main Street)</b> <b>Caledonia South</b>
<b>Eye level:</b>	57.7 mAOD	<b>Principal distance:</b>	812.5 mm	<b>Lens:</b>	Canon EF 50mm f/1.4		
<b>Direction of view:</b>	104°	<b>Paper size:</b>	841 x 297 mm (half A1)	<b>Camera height:</b>	1.5 m		
<b>Nearest turbine:</b>	48.40 km	<b>Correct printed image size:</b>	820 x 260 mm	<b>Date and time:</b>	17.10.2023 19:00		

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Photomontage: Proposed Development.

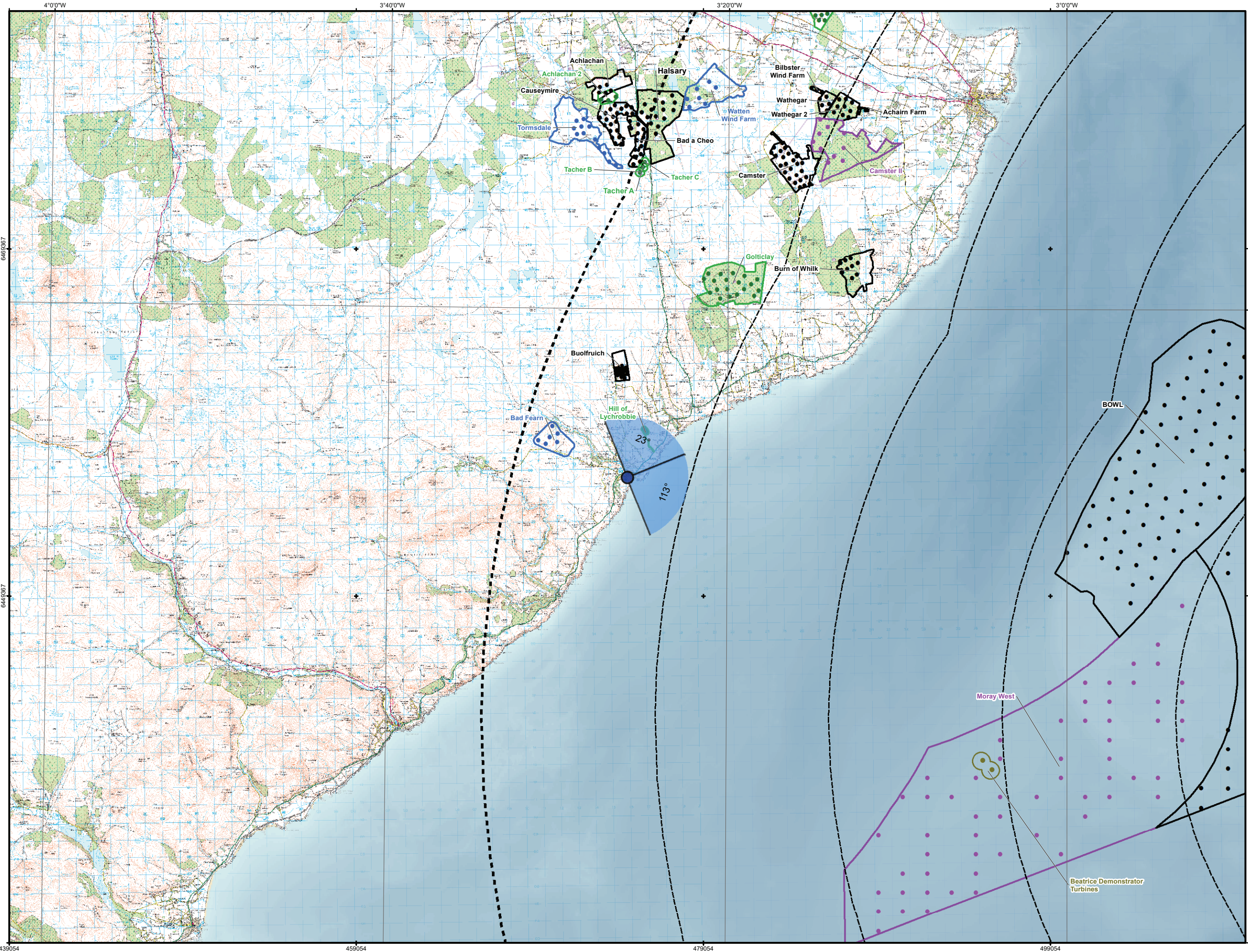
View flat at a comfortable arm's length

OS reference:	324836 E 935074 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mark II
Eye level:	57.7 mAOD	Principal distance:	812.5 mm	Lens:	Canon EF 50mm f/1.4
Direction of view:	104°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	48.40 km	Correct printed image size:	820 x 260 mm	Date and time:	17.10.2023 19:00

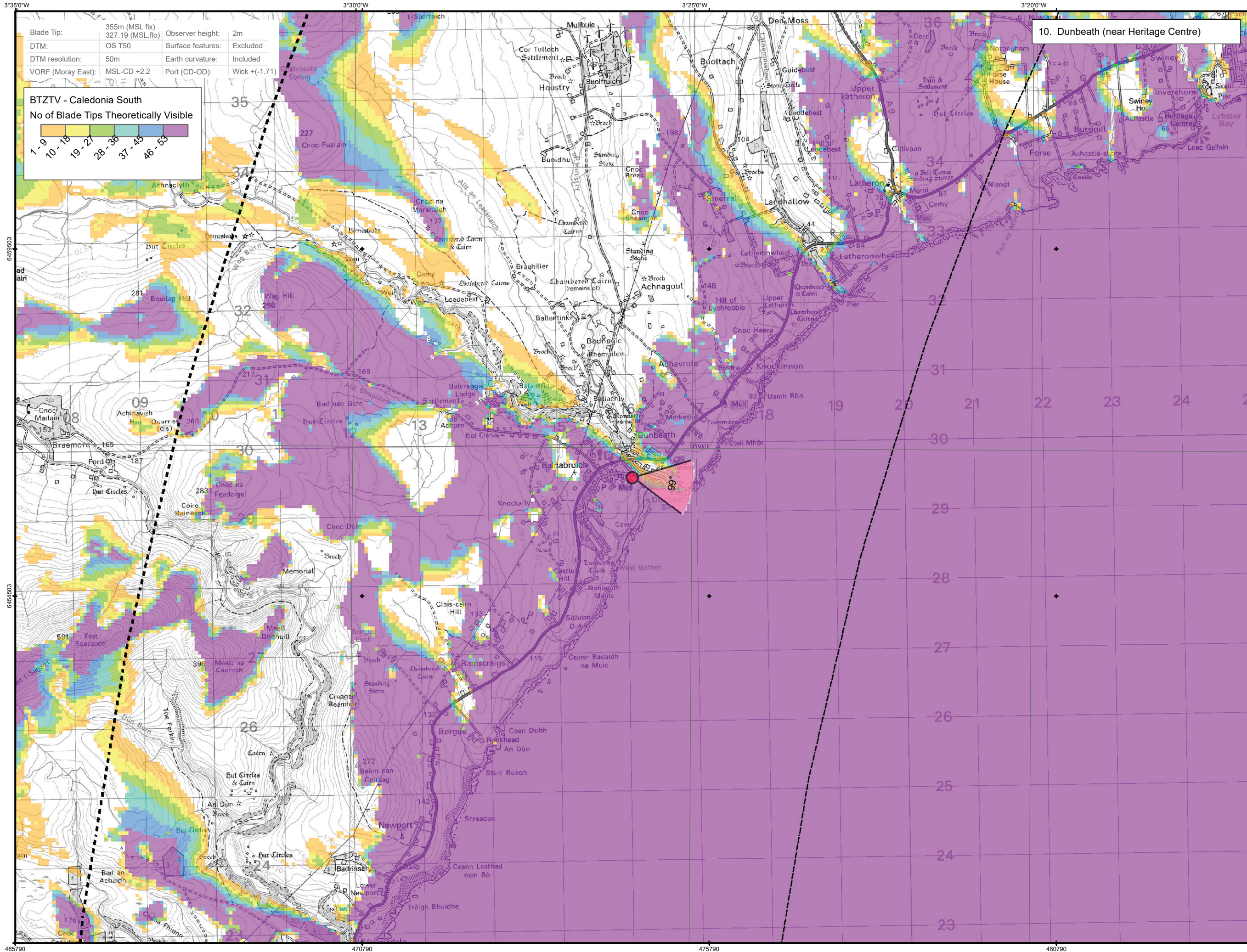
Operational and Under Construction offshore wind farms have been photomontaged in this view.

Figure: 12.9o  
Viewpoint 9: Lybster (end of Main Street)  
Caledonia South  
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Viewpoint Location Plan Baseline Panorama (90° View)  
Scale: 1:200,000



Viewpoint Location Plan (53.5° View)  
Scale: 1:50,000

90°Field of View

53.5°Field of View

Caledonia South Fixed/Floating

Fixed (24 x 25MW)

Floating (29 x 20MW)

OSP's

Caledonia South

Caledonia North

Offshore and Onshore Export Cable Corridor

10km Radii

60km Study Area

Cumulative Windfarms Status:

Operational

Under Construction

Consented

Appeal / Application

Inactive / Decommissioned

Operational

Under Construction

Consented

Appeal / Application

Inactive / Decommissioned

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East Cullin's Cliffs Marine Protected Area

0 2 4 6 8 10 km

0 0.5 1 1.5 2 km

03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT
REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP

CALEDONIA

Offshore Wind Farm

open

optimised environments

PART OF SLR

CONTRACTOR DRAWING NO

UKCAL1\_OPN\_WNF\_ENV\_SLV\_MAP\_00142

CONTRACTOR REV

03

GEODETIC PARAMETERS

WGS 1984 UTM Zone 30N (EPSG:32630)

DRAWING TITLE

Figure 12-10a - Viewpoint Plan

10. Dunbeath (near Heritage Centre)

Caledonia South

STATUS

Approved

SCALE

1:200,000

DRAWING NUMBER

N/A

SHEET NO

10 of 22

REV

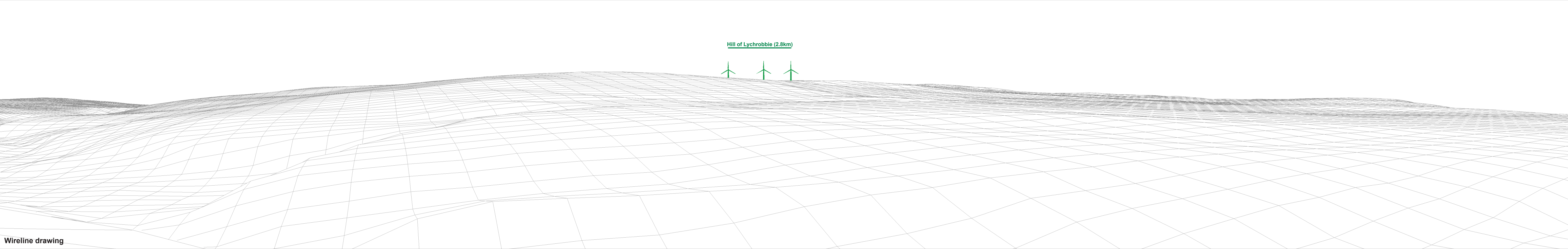
N/A





Baseline photograph

This image provides landscape and visual context only



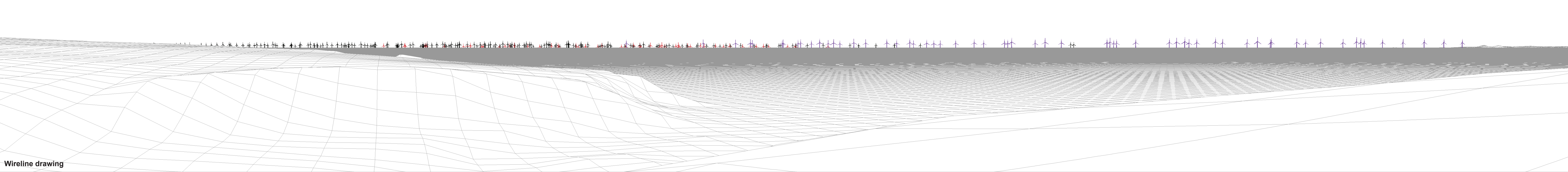
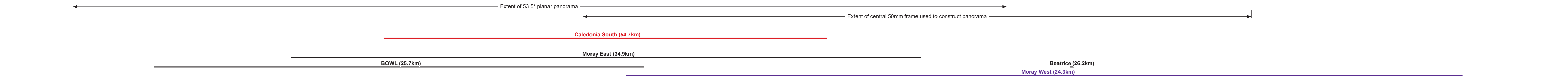
Wireline drawing





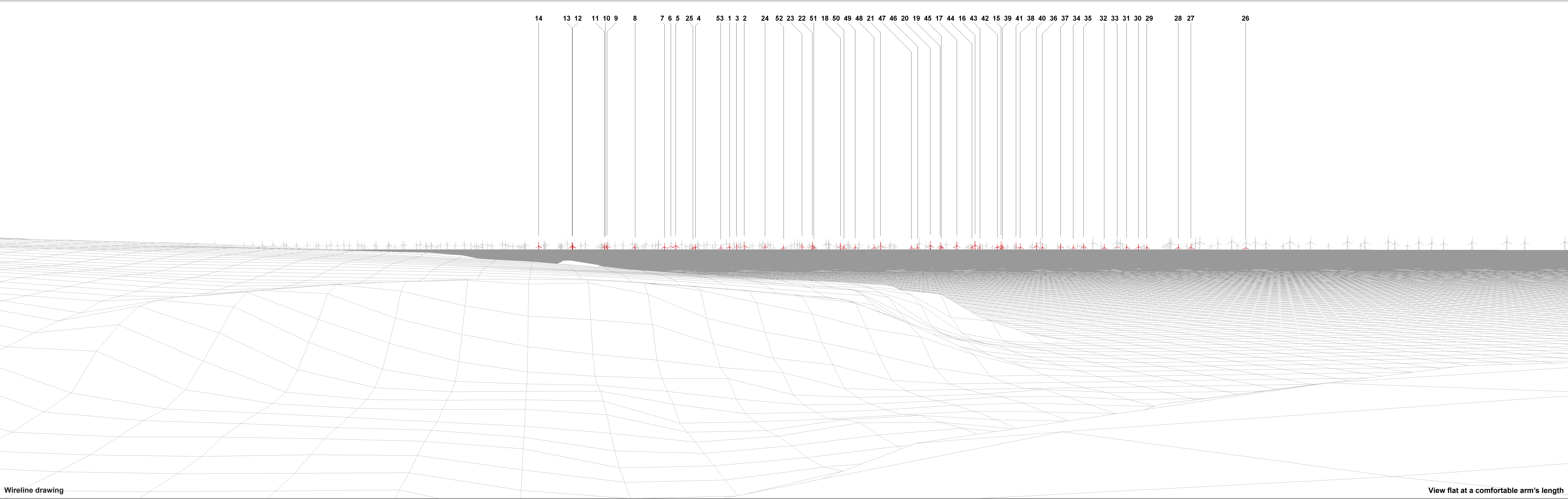
Baseline photograph

This image provides landscape and visual context only



Wireline drawing





Wireline drawing

View flat at a comfortable arm's length

<b>OS reference:</b>	316071 E 929517 N	<b>Horizontal field of view:</b>	53.5° (planar projection)	<b>Camera:</b>	Canon EOS 5D Mark II
<b>Eye level:</b>	47.1 mAOD	<b>Principal distance:</b>	812.5 mm	<b>Lens:</b>	Canon EF 50mm f/1.4
<b>Direction of view:</b>	99°	<b>Paper size:</b>	841 x 297 mm (half A1)	<b>Camera height:</b>	1.5 m
<b>Nearest turbine:</b>	54.67 km	<b>Correct printed image size:</b>	820 x 260 mm	<b>Date and time:</b>	16.10.2023 10:00

**Figure: 12.10d**  
**Viewpoint 10: Dunbeath (near Heritage Centre)**  
**Caledonia South**

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Baseline photograph.

View flat at a comfortable arm's length

<b>S reference:</b>	316071 E 929517 N	<b>Horizontal field of view:</b>	53.5° (planar projection)	<b>Camera:</b>	Canon EOS 5D Mark II	<b>Operational and Under Construction offshore wind farms have been photomontaged in this view.</b>	<b>Figure: 12.10e</b> <b>Viewpoint 10: Dunbeath (near Heritage Centre)</b> <b>Caledonia South</b>
<b>Eye level:</b>	47.1 mAOD	<b>Principal distance:</b>	812.5 mm	<b>Lens:</b>	Canon EF 50mm f/1.4		
<b>Direction of view:</b>	99°	<b>Paper size:</b>	841 x 297 mm (half A1)	<b>Camera height:</b>	1.5 m		
<b>Nearest turbine:</b>	54.67 km	<b>Correct printed image size:</b>	820 x 260 mm	<b>Date and time:</b>	16.10.2023 10:00		

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Photomontage: Proposed Development.

View flat at a comfortable arm's length

OS reference:	316071 E 929517 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mark II
Eye level:	47.1 mAOD	Principal distance:	812.5 mm	Lens:	Canon EF 50mm f/1.4
Direction of view:	99°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	54.67 km	Correct printed image size:	820 x 260 mm	Date and time:	16.10.2023 10:00

Operational and Under Construction offshore wind farms have been photomontaged in this view.

Figure: 12.10f  
Viewpoint 10: Dunbeath (near Heritage Centre)  
Caledonia South



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