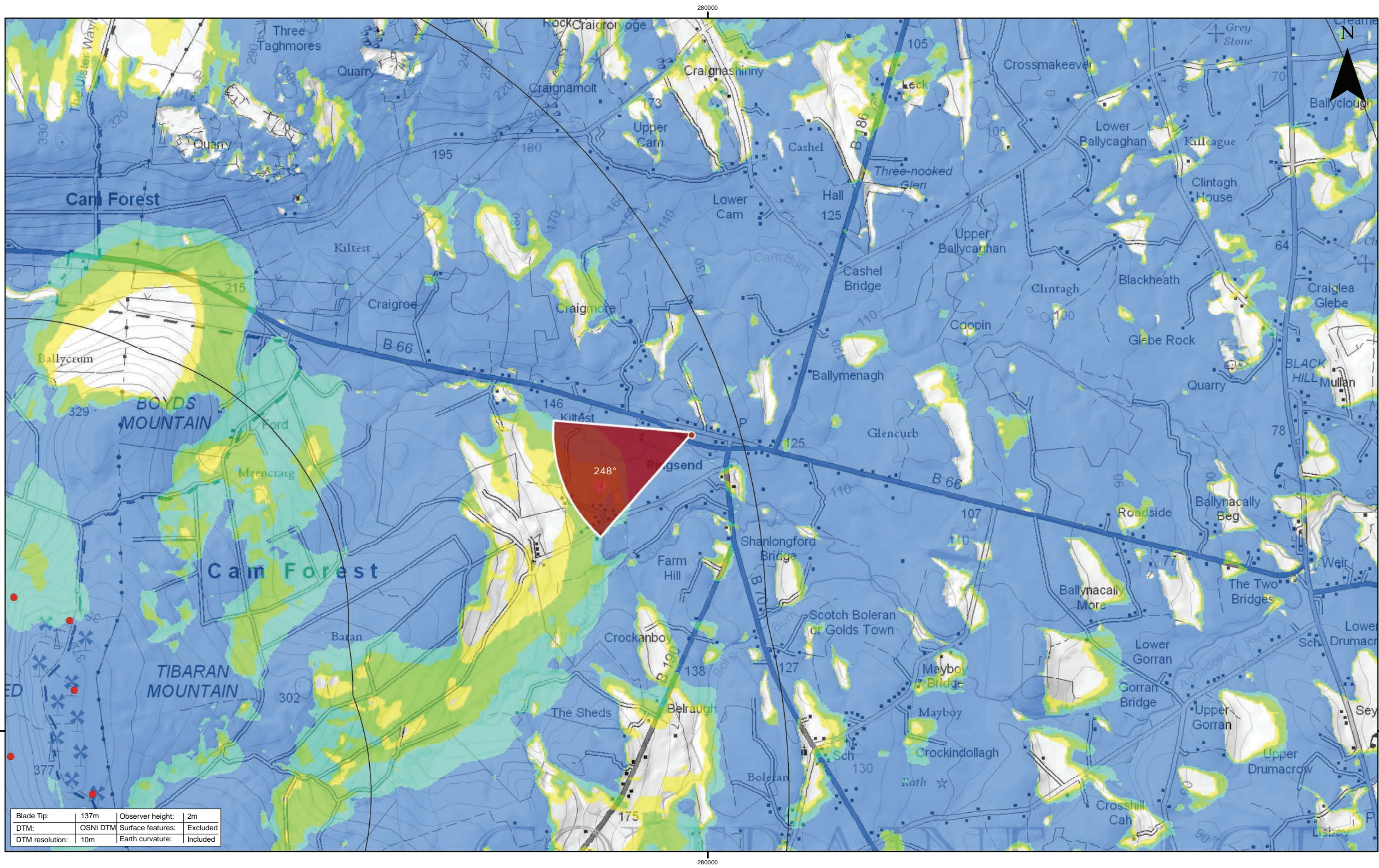



Note:

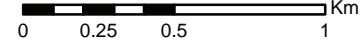
1. **ZTV:** Created using ESRI ArcGIS 10.6 software using the following data and parameters:
Blade tip height: 137m
DTM Data: OSNI 10m DTM
Observer height: 2m
No surface features, such as buildings or trees, were included in the analysis.
Earth curvature and light refraction have been included in calculations.

2. **Cumulative Windfarms:** Single turbines in close proximity to the Development have not been labelled. Full 30km Study Area is not being shown on this figure. For full extent of 30km Study Area and assessed cumulative windfarms see Figure 6.12.





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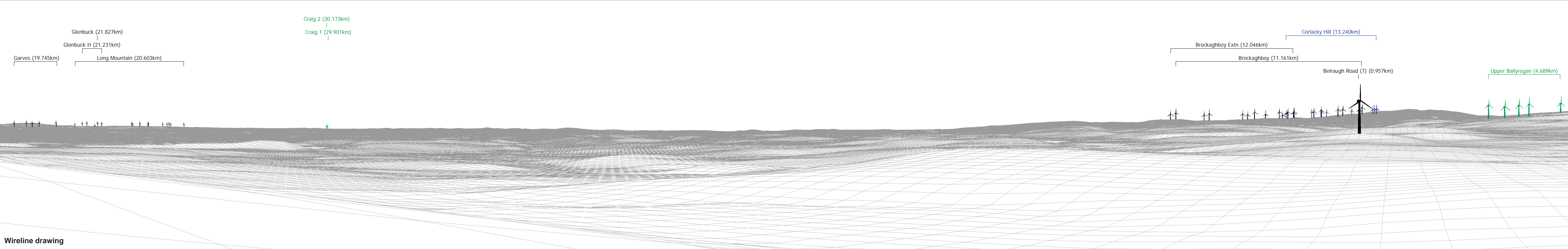


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Rigged Hill Windfarm Repowering

Figure 6.33 - Viewpoint 6
Ringsend

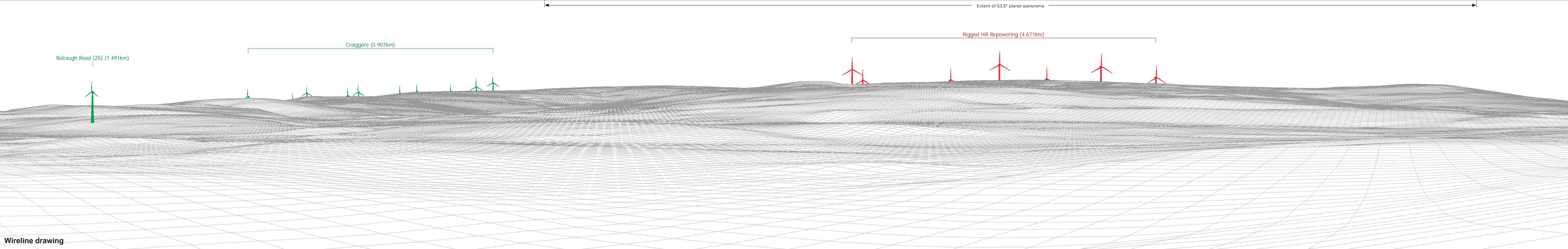
Drawing Number: 2607-LVIA-035	Datum TM65	Projection TM
Scale @ A3 1:25,000	Drawing produced by Optimised Environments Ltd.	





Baseline photograph

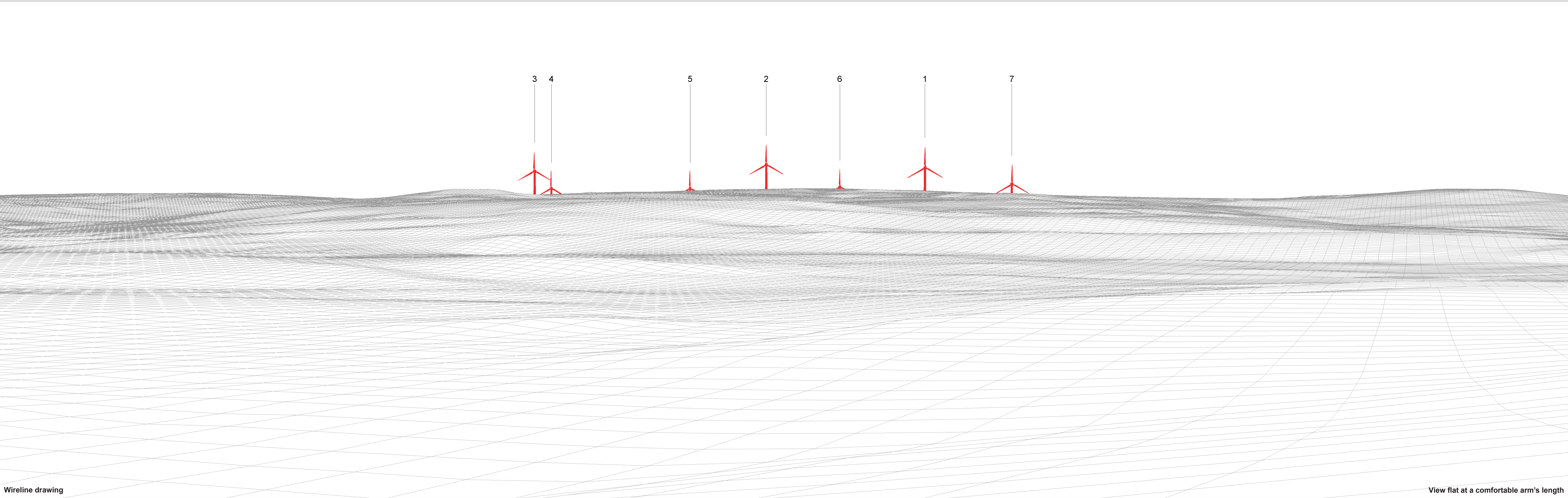
This image provides landscape and visual context only



Wireline drawing

OS reference:	279888 E 422143 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II
Eye level:	143.47 m AOD	Principal distance	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	235°			Camera height:	1.5 m AGL
Nearest turbine:	4.671 km			Date and time:	09/08/17, 09:20

Figure: 6.33c
Viewpoint 6: Ringsend



Wireline drawing

View flat at a comfortable arm's length

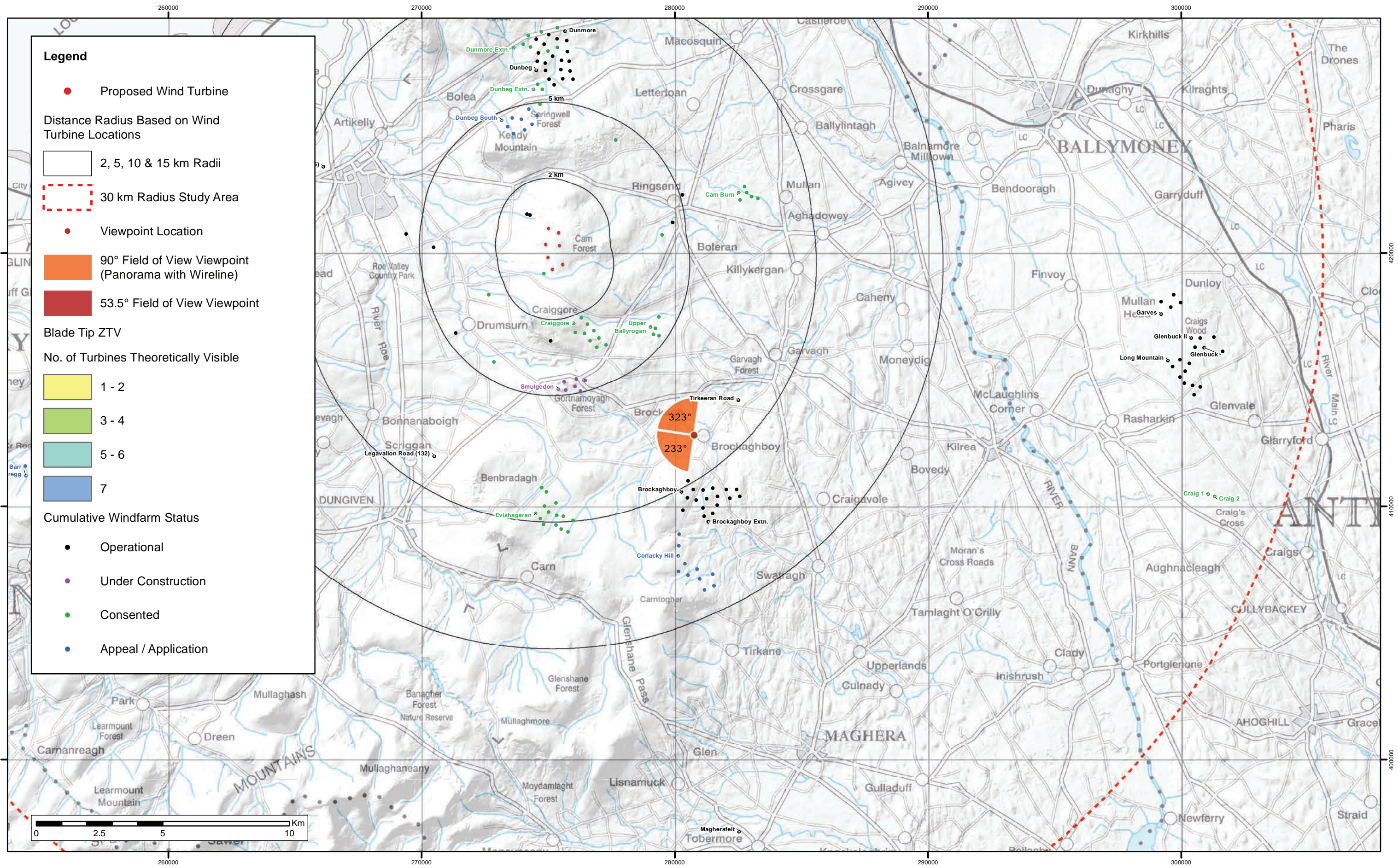


Photomontage

View flat at a comfortable arm's length

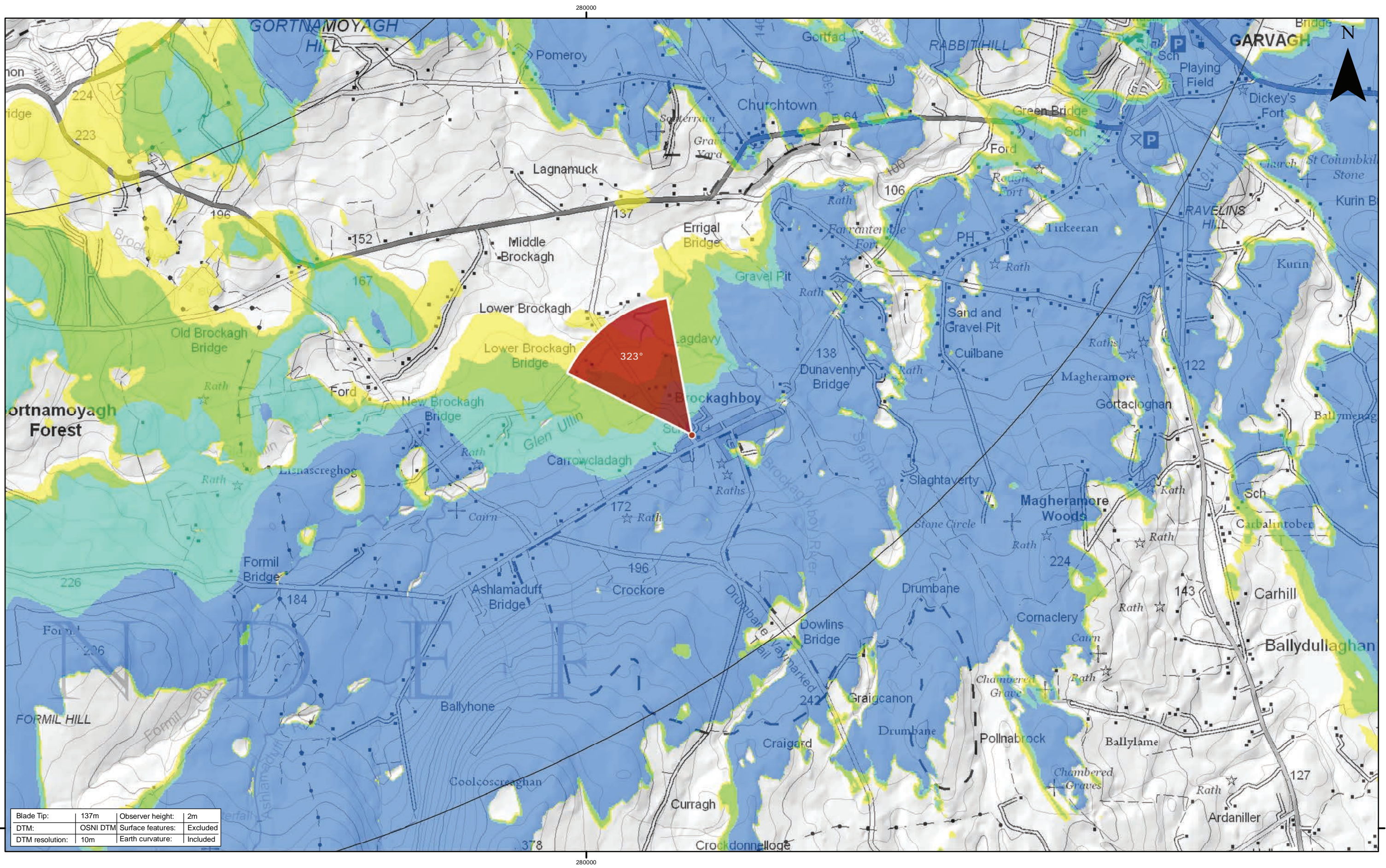
OS reference:	279888 E 422143 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mark II
Eye level:	143.47 m AOD	Principal distance	812.5 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	248°	Paper size:	841 x 297 mm	Camera height:	1.5 m AGL
Nearest turbine:	4.671 km	Correct printed image size:	820 x 260 mm	Date and time:	09/08/17, 09:20

Figure: 6.33e
Viewpoint 6: Ringsend



Note:

- ZTV:** Created using ESRI ArcGIS 10.6 software using the following data and parameters:
Blade tip height: 137m
DTM Data: OSNI 10m DTM
Observer height: 2m
No surface features, such as buildings or trees, were included in the analysis.
Earth curvature and light refraction have been included in calculations.
- Cumulative Windfarms:** Single turbines in close proximity to the Development have not been labelled. Full 30km Study Area is not being shown on this figure. For full extent of 30km Study Area and assessed cumulative windfarms see Figure 6.12.

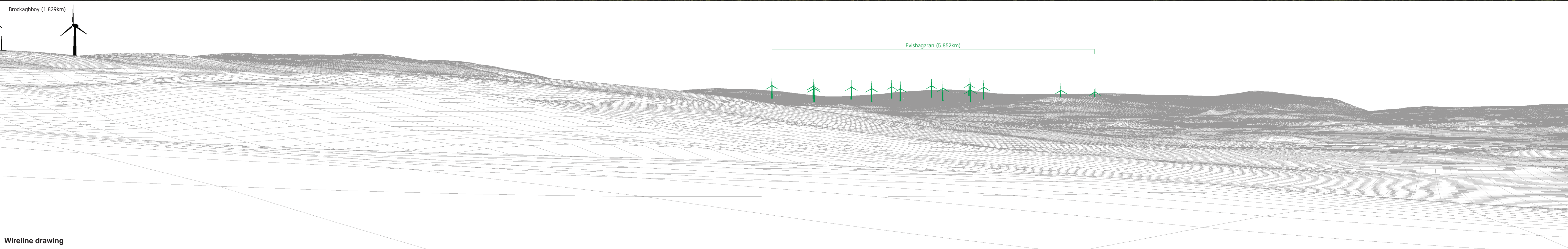


						Rigged Hill Windfarm Repowering Figure 6.34 - Viewpoint 7 Glenullin Bog Viewpoint, Glenullin Resource Centre			Drawing Number: 2607-LVIA-036	Datum TM65	Projection TM
1	19/06/2019	JM	Second Issue.	This is Crown Copyright and is reproduced with the permission of Land & Property Services under delegated authority the Controller of Her Majesty's Stationary Office, © Crown Copyright and database right 2017 Licence Number 100,220-163505		Scale @ A3 1:25,000			Drawing produced by Optimised Environments Ltd.		
0	25/03/2019	JM	First Issue.								
Rev	Date	By	Comment								



Baseline photograph

This image provides landscape and visual context only



Wireline drawing

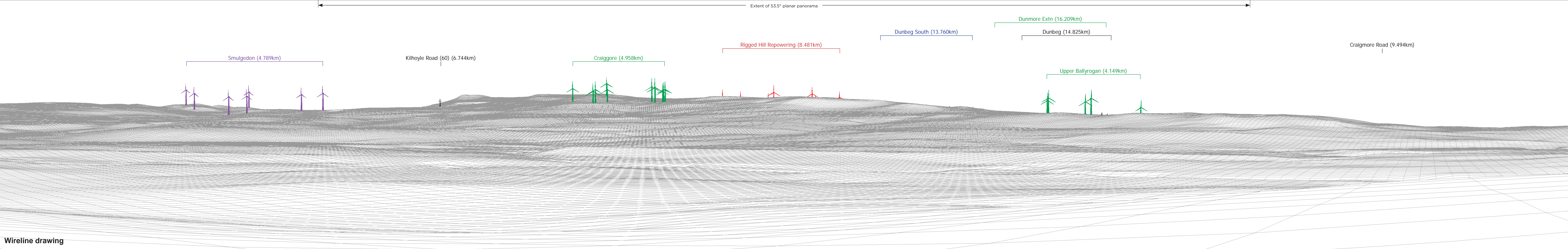
OS reference:	280756 E 412824 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 6D
Eye level:	156.29 m AOD	Principal distance	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	233°			Camera height:	1.5 m AGL
Nearest turbine:	8.481 km			Date and time:	20/06/17, 12:27

Figure: 6.34b
Viewpoint 7: Glenullin Bog Viewpoint, Glenullin Resource Centre



Baseline photograph

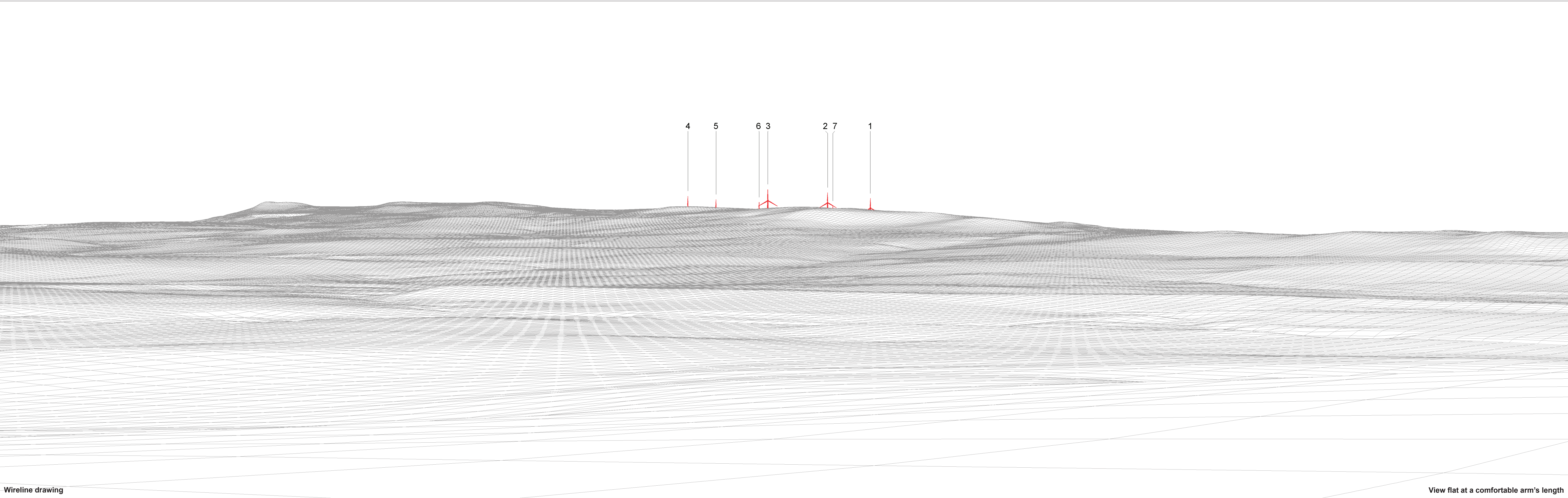
This image provides landscape and visual context only



Wireline drawing

OS reference:	280756 E 412824 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 6D
Eye level:	156.29 m AOD	Principal distance:	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	323°			Camera height:	1.5 m AGL
Nearest turbine:	8.481 km			Date and time:	20/06/17, 12:27

Figure: 6.34c
Viewpoint 7: Glenullin Bog Viewpoint, Glenullin Resource Centre



Wireline drawing

View flat at a comfortable arm's length

OS reference:	280756 E 412824 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 6D
Eye level:	156.29 m AOD	Principal distance	812.5 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	323°	Paper size:	841 x 297 mm	Camera height:	1.5 m AGL
Nearest turbine:	8.481 km	Correct printed image size:	820 x 260 mm	Date and time:	20/06/17, 12:27

Figure: 6.34d
Viewpoint 7: Glenullin Bog Viewpoint, Glenullin
Resource Centre

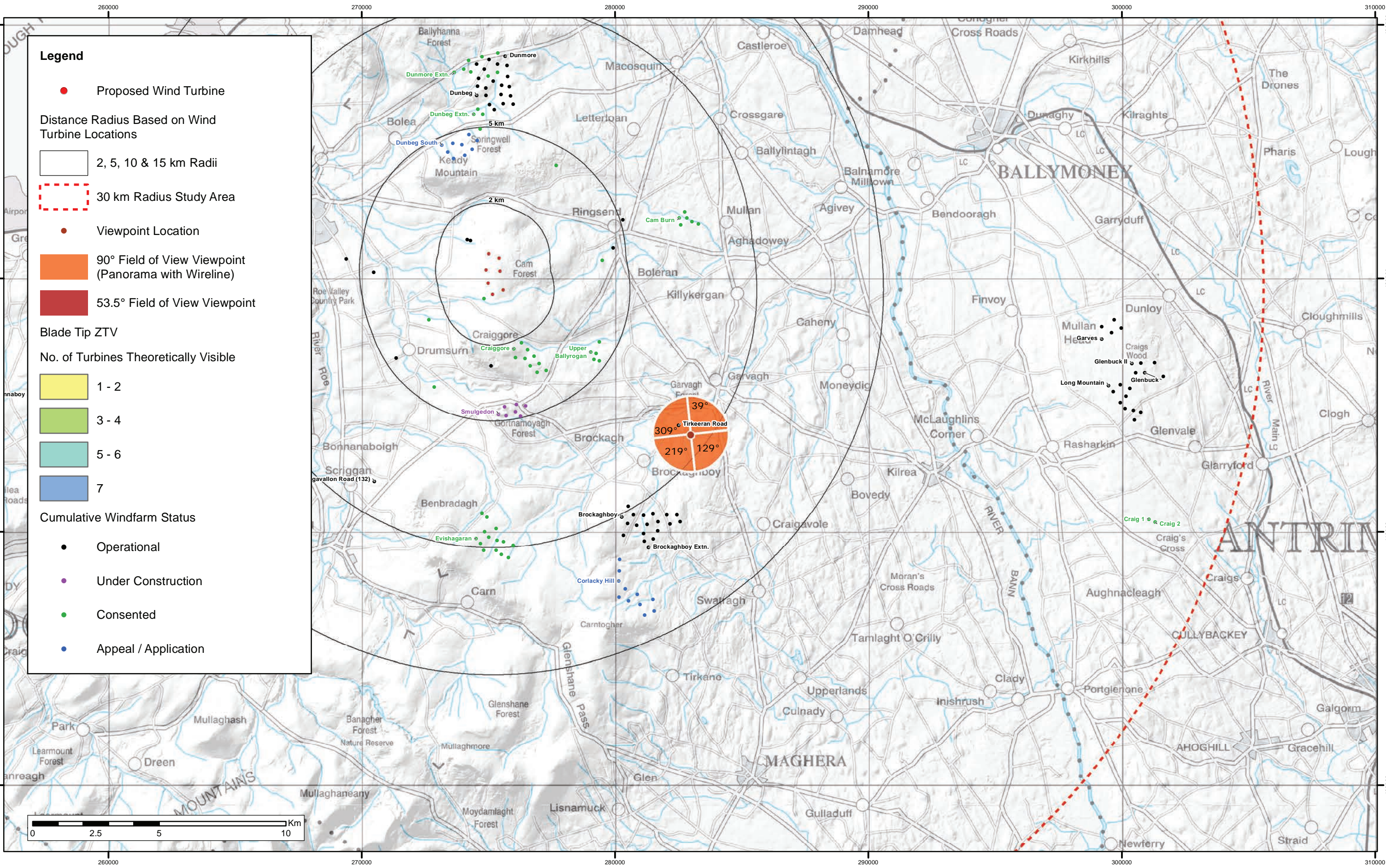


Photomontage

View flat at a comfortable arm's length

OS reference:	280756 E 412824 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 6D
Eye level:	156.29 m AOD	Principal distance	812.5 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	323°	Paper size:	841 x 297 mm	Camera height:	1.5 m AGL
Nearest turbine:	8.481 km	Correct printed image size:	820 x 260 mm	Date and time:	20/06/17, 12:27

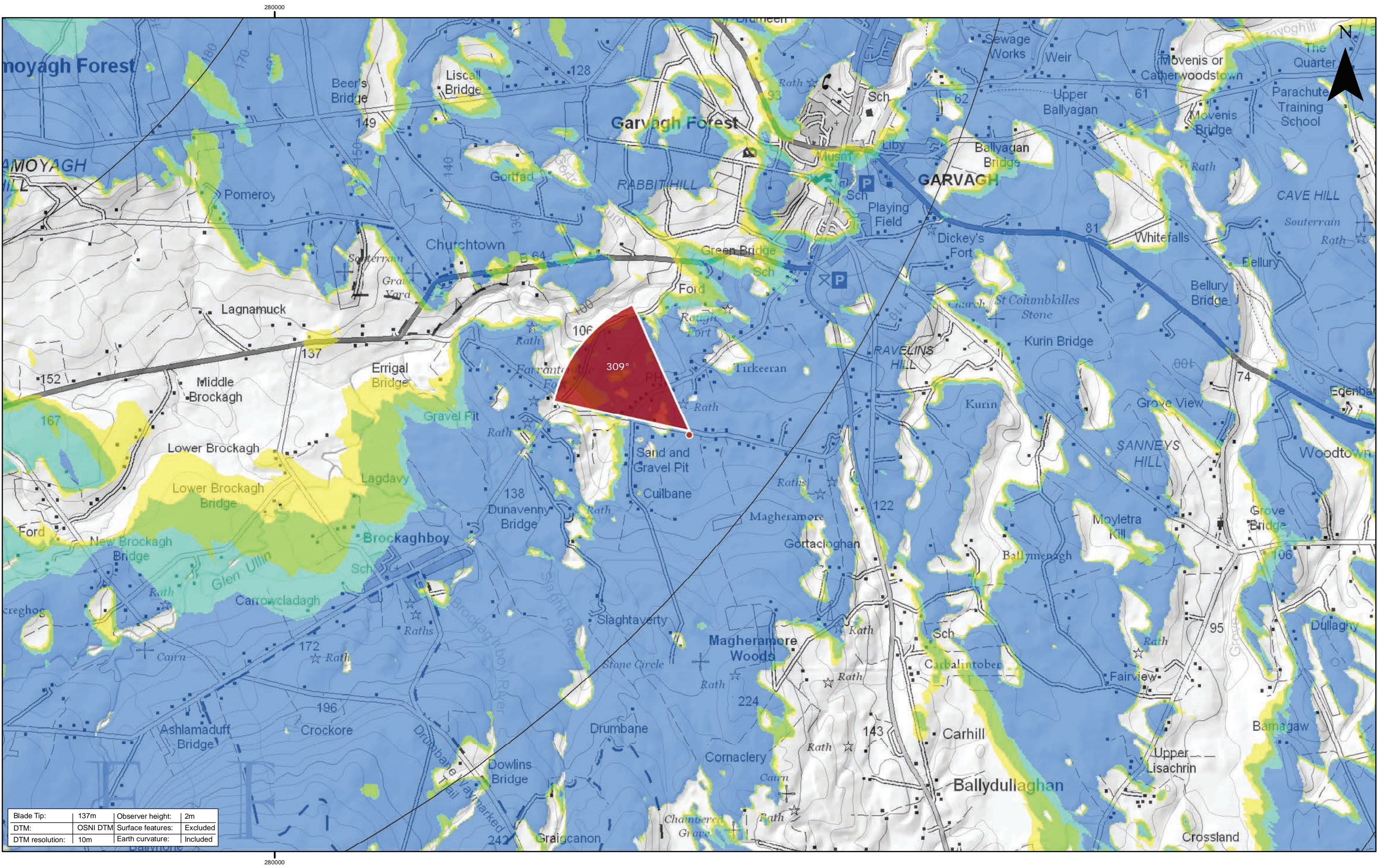
Figure: 6.34e
Viewpoint 7: Glenullin Bog Viewpoint, Glenullin Resource Centre




Note:

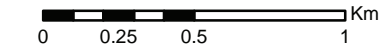
1. **ZTV:** Created using ESRI ArcGIS 10.6 software using the following data and parameters:
Blade tip height: 137m
DTM Data: OSNI 10m DTM
Observer height: 2m
No surface features, such as buildings or trees, were included in the analysis.
Earth curvature and light refraction have been included in calculations.

2. **Cumulative Windfarms:** Single turbines in close proximity to the Development have not been labelled. Full 30km Study Area is not being shown on this figure. For full extent of 30km Study Area and assessed cumulative windfarms see Figure 6.12.





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Rigged Hill Windfarm Repowering

Figure 6.35 - Viewpoint 8
Magheramore Road, south-west of Garvagh

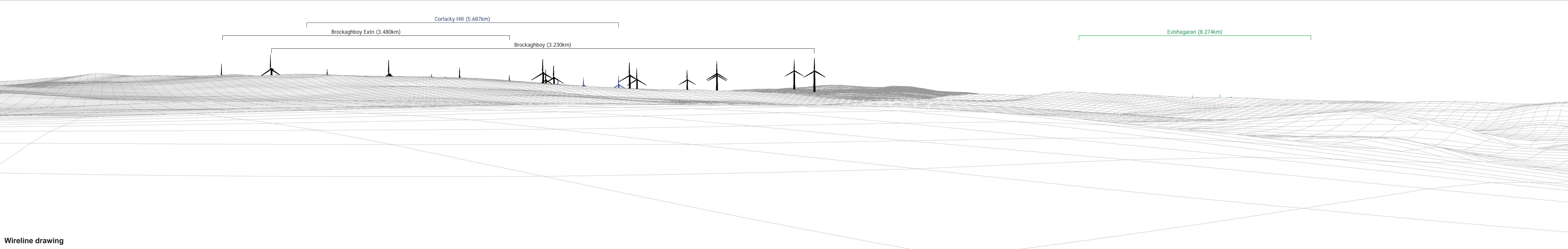
Drawing Number: 2607-LVIA-037	Datum TM65	Projection TM
Scale @ A3 1:25,000	Drawing produced by Optimised Environments Ltd.	

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Baseline photograph

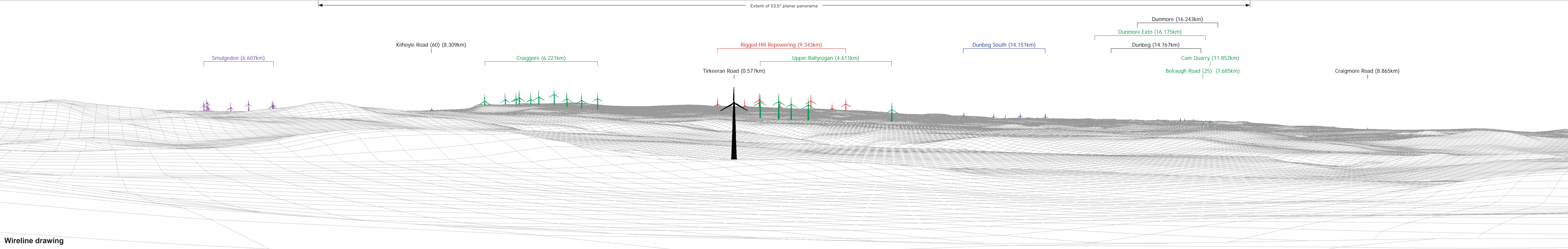
This image provides landscape and visual context only



Wireline drawing

OS reference:	282978 E 413855 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 6D
Eye level:	121.02 m AOD	Principal distance	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	219°			Camera height:	1.5 m AGL
Nearest turbine:	9.331 km			Date and time:	30/04/18, 11:09

Figure: 6.35b
Viewpoint 8: Magheramore Road, south-west of Garvagh



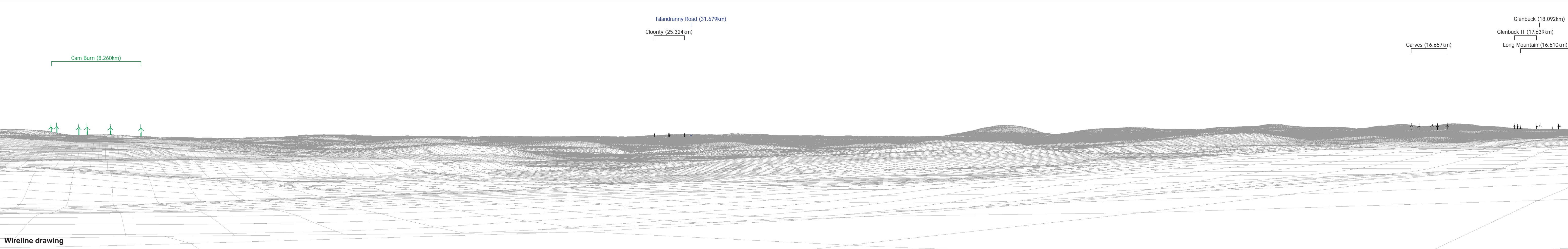
OS reference:	282978 E 413855 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 6D
Eye level:	121.02 m AOD	Principal distance:	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	309°			Camera height:	1.5 m AGL
Nearest turbine:	9.331 km			Date and time:	30/04/18, 11:09

Figure: 6.35c
Viewpoint 8: Magheramore Road, south-west of Garvagh



Baseline photograph

This image provides landscape and visual context only



Wireline drawing

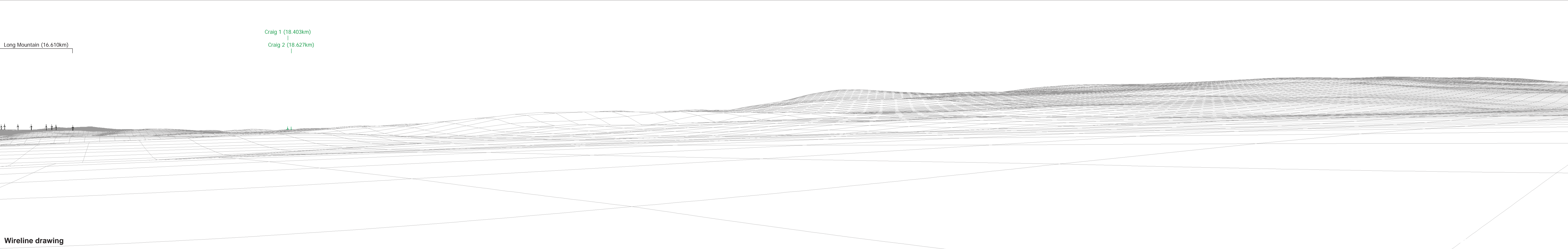
OS reference:	282978 E 413855 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 6D
Eye level:	121.02 m AOD	Principal distance	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	39°			Camera height:	1.5 m AGL
Nearest turbine:	9.331 km			Date and time:	30/04/18, 11:09

Figure: 6.35d
Viewpoint 8: Magheramore Road, south-west of Garvagh



Baseline photograph

This image provides landscape and visual context only



Wireline drawing

OS reference:	282978 E 413855 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 6D
Eye level:	121.02 m AOD	Principal distance	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	129°			Camera height:	1.5 m AGL
Nearest turbine:	9.331 km			Date and time:	30/04/18, 11:09

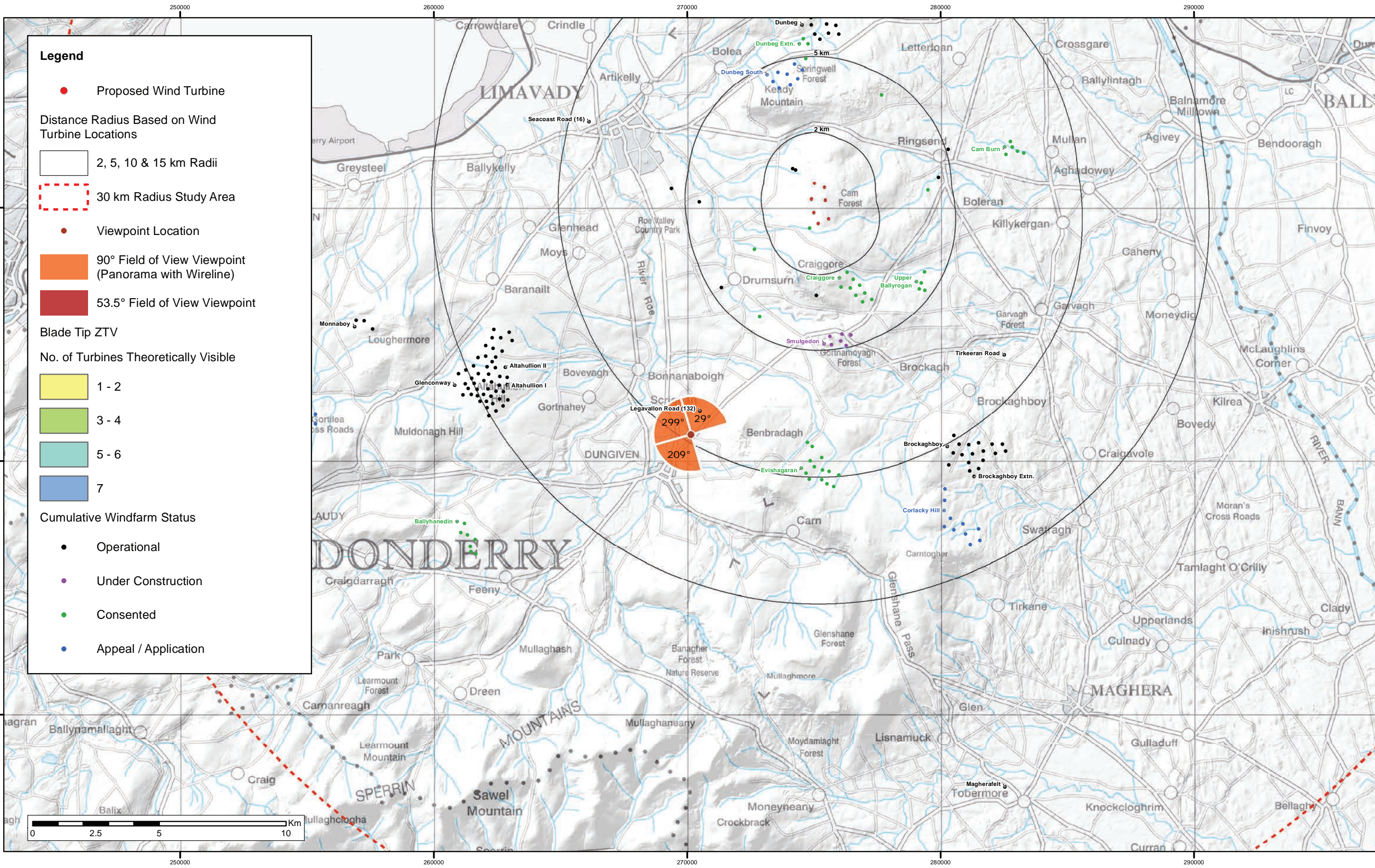
Figure: 6.35e
Viewpoint 8: Magheramore Road, south-west of Garvagh



Photomontage

View flat at a comfortable arm's length

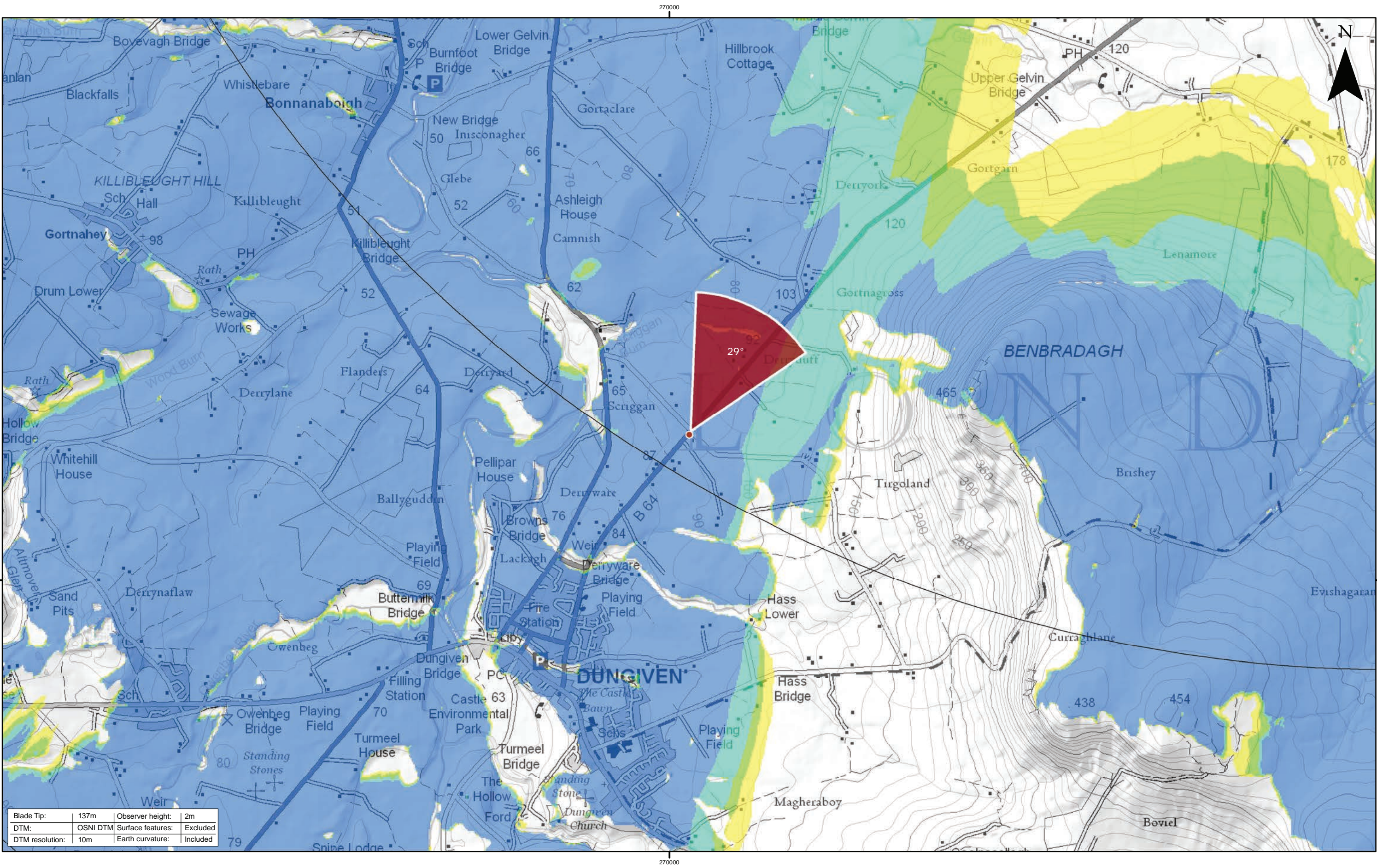
OS reference:	282978 E 413855 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 6D	Figure: 6.35g
Eye level:	121.02 m AOD	Principal distance	812.5 mm	Lens:	50mm (Canon EF 50mm f/1.4)	Viewpoint 8: Magheramore Road, south-west of
Direction of view:	309°	Paper size:	841 x 297 mm	Camera height:	1.5 m AGL	Garvagh
Nearest turbine:	9.331 km	Correct printed image size:	820 x 260 mm	Date and time:	30/04/18, 11:09	



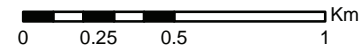
Note:

1. **ZTV:** Created using ESRI ArcGIS 10.6 software using the following data and parameters:
Blade tip height: 137m
DTM Data: OSNI 10m DTM
Observer height: 2m
No surface features, such as buildings or trees, were included in the analysis.
Earth curvature and light refraction have been included in calculations.

2. **Cumulative Windfarms:** Single turbines in close proximity to the Development have not been labelled. Full 30km Study Area is not being shown on this figure. For full extent of 30km Study Area and assessed cumulative windfarms see Figure 6.12.



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0	25/03/2019	JM	First Issue.



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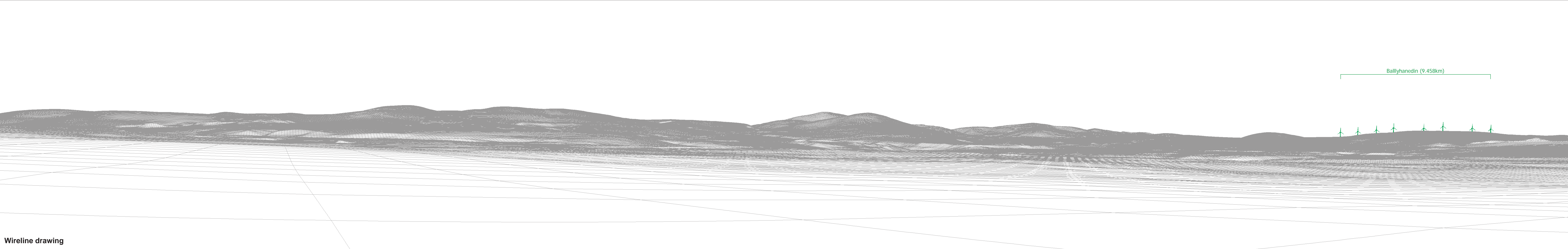
Rigged Hill Windfarm Repowering Figure 6.36 - Viewpoint 9 Legavallon Road at Curragh Road Junction		Drawing Number: 2607-LVIA-038	Datum TM65	Projection TM
Scale @ A3 1:25,000		Drawing produced by Optimised Environments Ltd.		

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Baseline photograph

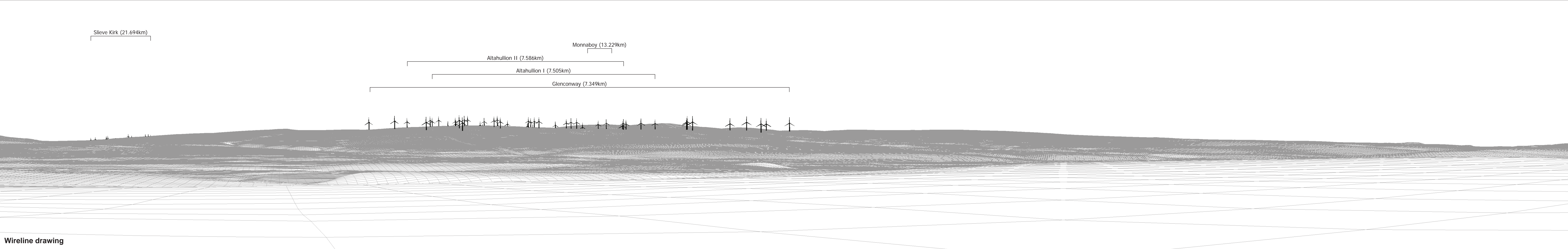
This image provides landscape and visual context only



Wireline drawing

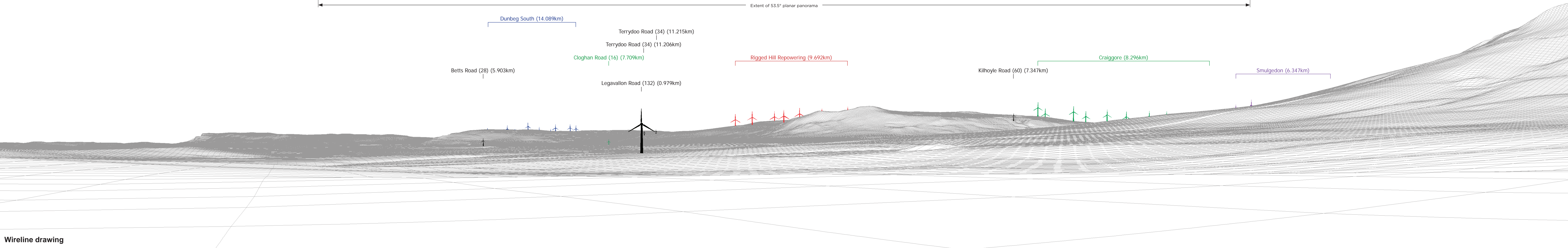
OS reference:	270151 E 411067 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 6D
Eye level:	92.06 m AOD	Principal distance	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	209°			Camera height:	1.5 m AGL
Nearest turbine:	9.692 km			Date and time:	20/06/17, 13:48

Figure: 6.36b
Viewpoint 9: Legavallon Road



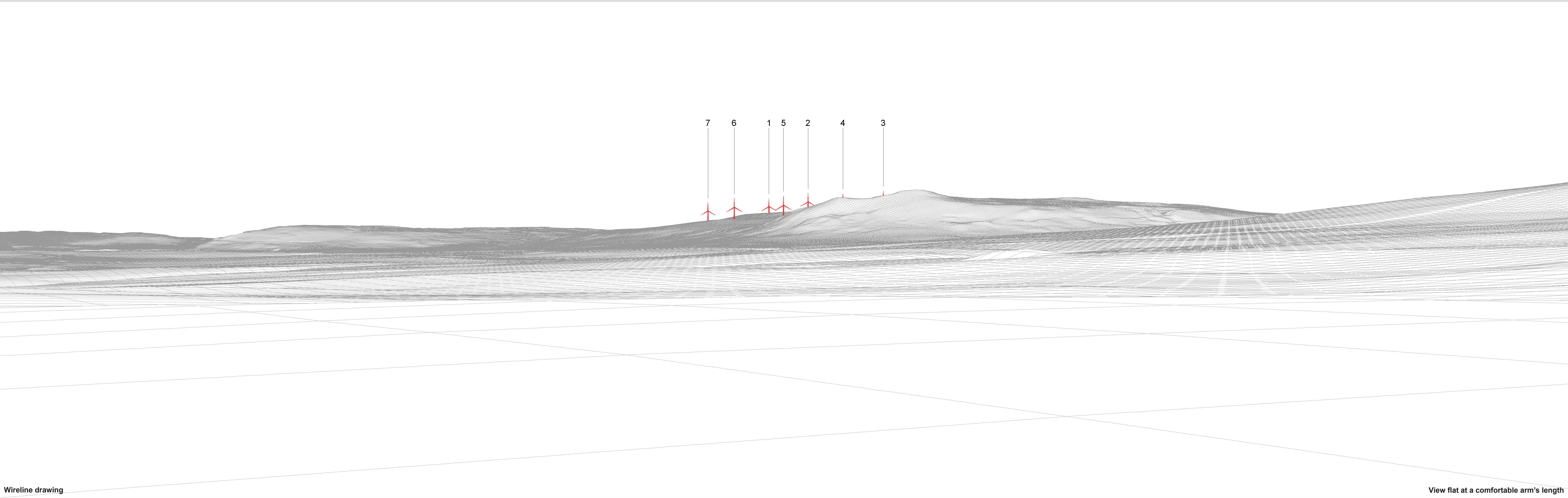
OS reference:	270151 E 411067 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 6D
Eye level:	92.06 m AOD	Principal distance	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	299°			Camera height:	1.5 m AGL
Nearest turbine:	9.692 km			Date and time:	20/06/17, 13:48

Figure: 6.36c
Viewpoint 9: Legavallon Road



OS reference:	270151 E 411067 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 6D	Note: The Terrydoo Road turbines have been added to the baseline view.
Eye level:	92.06 m AOD	Principal distance	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)	
Direction of view:	29°			Camera height:	1.5 m AGL	
Nearest turbine:	9.692 km			Date and time:	20/06/17, 13:48	

Figure: 6.36d
Viewpoint 9: Legavallon Road



Wireline drawing

View flat at a comfortable arm's length

OS reference: 270151 E 411067 N
Eye level: 92.06 m AOD
Direction of view: 29°
Nearest turbine: 9.692 km

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

Camera: Canon EOS 6D
Lens: 50mm (Canon EF 50mm f/1.4)
Camera height: 1.5 m AGL
Date and time: 20/06/17, 13:48

Figure: 6.36e
Viewpoint 9: Legavallon Road



Photomontage

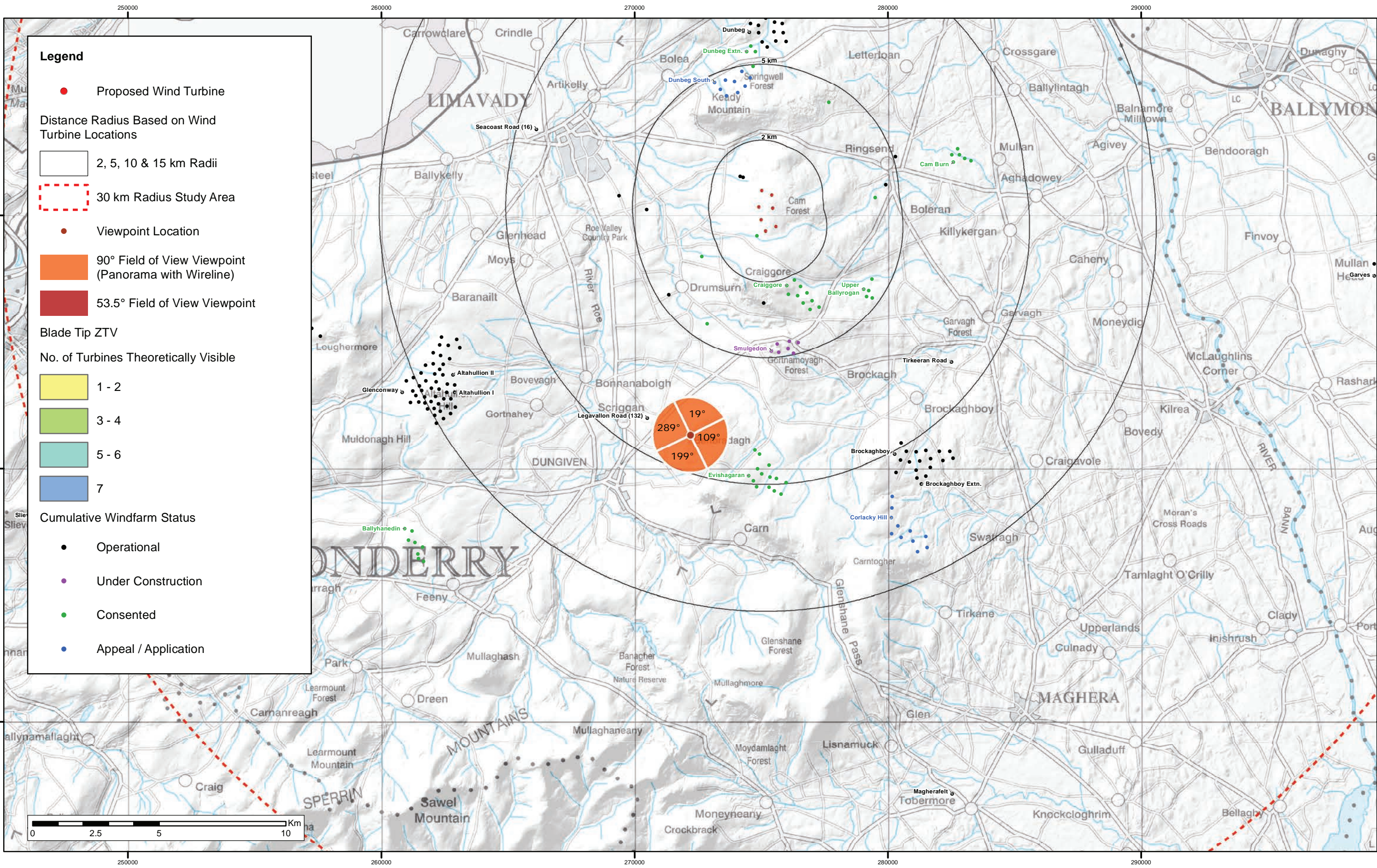
View flat at a comfortable arm's length

OS reference: 270151 E 411067 N
Eye level: 92.06 m AOD
Direction of view: 29°
Nearest turbine: 9.692 km

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

Camera: Canon EOS 6D
Lens: 50mm (Canon EF 50mm f/1.4)
Camera height: 1.5 m AGL
Date and time: 20/06/17, 13:48

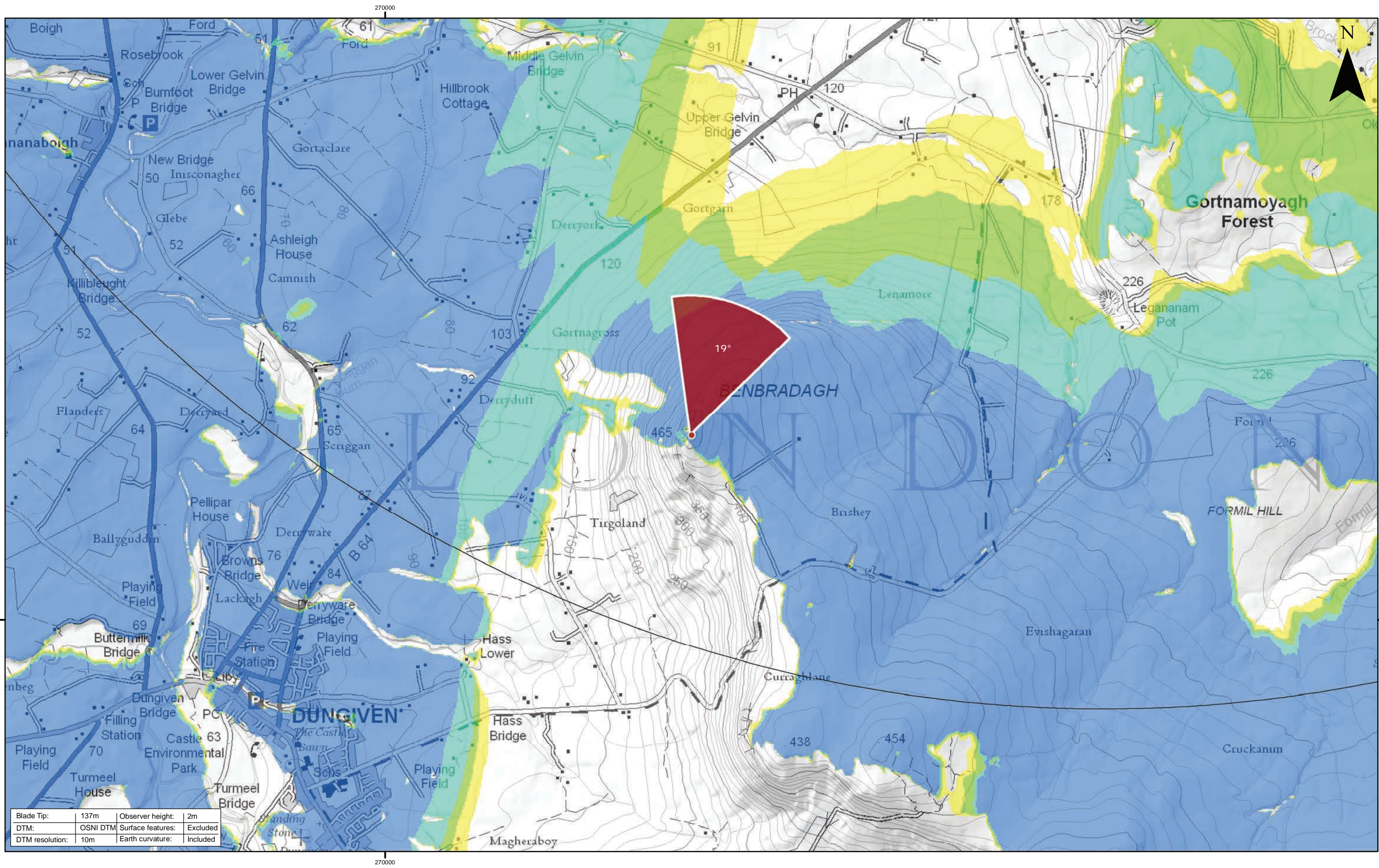
Figure: 6.36f
Viewpoint 9: Legavallon Road



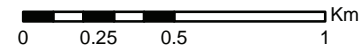
Note:

1. **ZTV:** Created using ESRI ArcGIS 10.6 software using the following data and parameters:
Blade tip height: 137m
DTM Data: OSNI 10m DTM
Observer height: 2m
No surface features, such as buildings or trees, were included in the analysis.
Earth curvature and light refraction have been included in calculations.

2. **Cumulative Windfarms:** Single turbines in close proximity to the Development have not been labelled. Full 30km Study Area is not being shown on this figure. For full extent of 30km Study Area and assessed cumulative windfarms see Figure 6.12.



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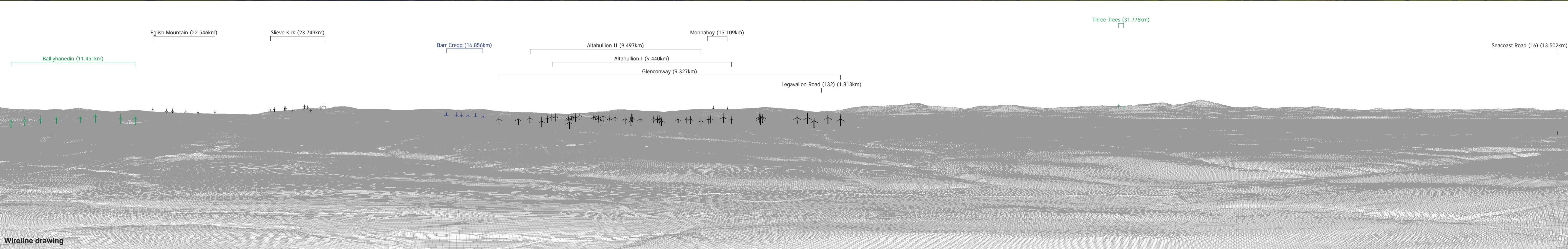
Rigged Hill Windfarm Repowering Figure 6.37 - Viewpoint 10 Benbradagh Mountain		Drawing Number: 2607-LVIA-039	Datum TM65	Projection TM
Scale @ A3 1:25,000		Drawing produced by Optimised Environments Ltd.		

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Baseline photograph

This image provides landscape and visual context only



Wireline drawing

OS reference:	272190 E 411328 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II
Eye level:	466.07 m AOD	Principal distance	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	289°			Camera height:	1.5 m AGL
Nearest turbine:	8.566 km			Date and time:	24/08/17, 09:48

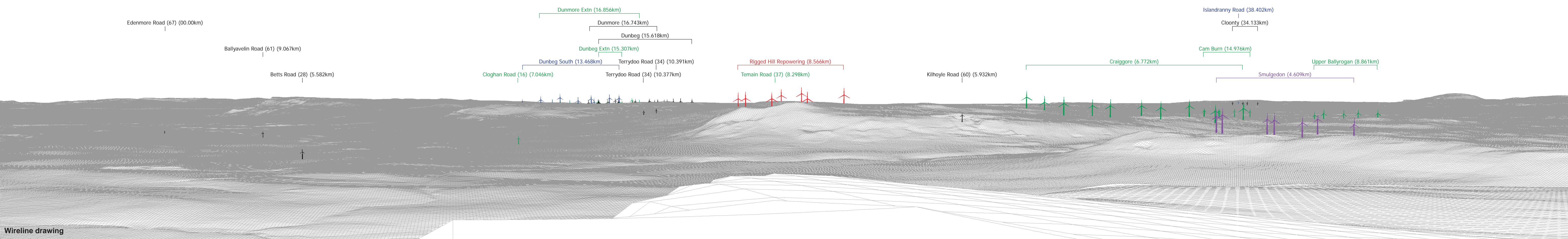
Figure: 6.37b
Viewpoint 10: Benbradagh Mountain



Baseline photograph

Extent of 53.5° planar panorama

This image provides landscape and visual context only



OS reference:	272190 E 411328 N	Horizontal field of view: 90° (cylindrical projection) Principal distance 522 mm	Camera:	Canon EOS 5D Mark II	Note: The Terrydoo Road turbines have been added to the baseline view.
Eye level:	466.07 m AOD		Lens:	50mm (Canon EF 50mm f/1.4)	
Direction of view:	109°		Camera height:	1.5 m AGL	
Nearest turbine:	8.566 km		Date and time:	24/08/17, 09:48	

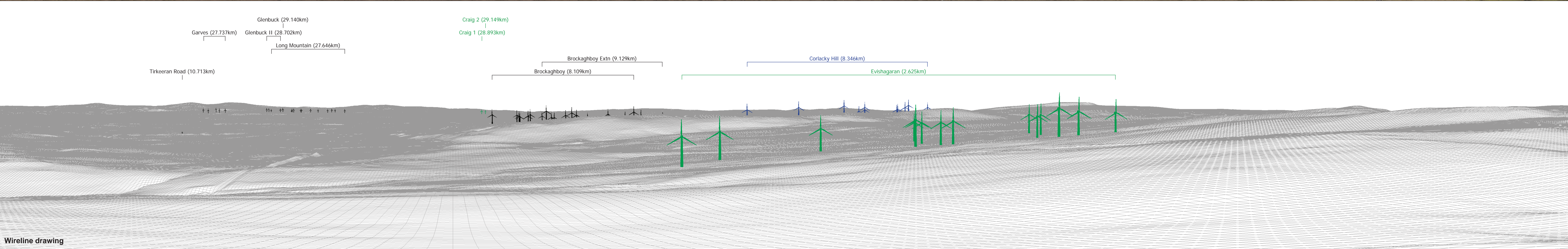
Figure: 6.37c
Viewpoint 10: Benbradagh Mountain

Figure: 6.37c
Viewpoint 10: Benbradagh Mountain



Baseline photograph

This image provides landscape and visual context only



Wireline drawing

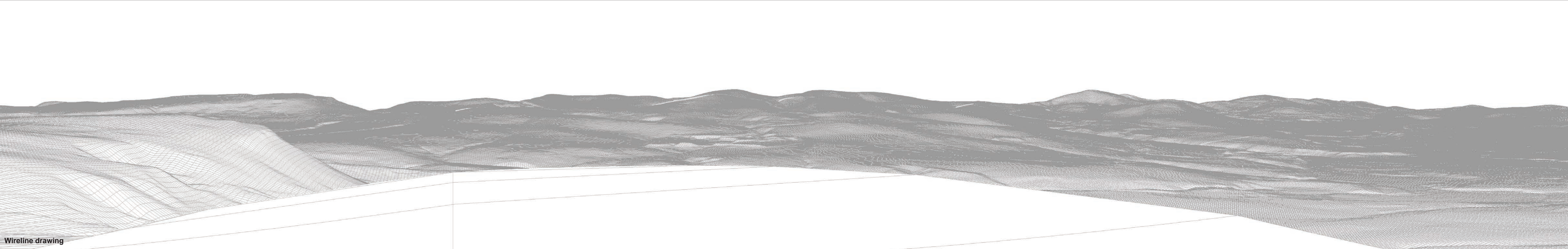
OS reference:	272190 E 411328 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II
Eye level:	466.07 m AOD	Principal distance	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	199°			Camera height:	1.5 m AGL
Nearest turbine:	8.566 km			Date and time:	24/08/17, 09:48

Figure: 6.37d
Viewpoint 10: Benbradagh Mountain



Baseline photograph

This image provides landscape and visual context only



Wireline drawing

OS reference:	272190 E 411328 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II
Eye level:	466.07 m AOD	Principal distance	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	19°			Camera height:	1.5 m AGL
Nearest turbine:	8.566 km			Date and time:	24/08/17, 09:48

Figure: 6.37e
Viewpoint 10: Benbradagh Mountain



Photomontage

View flat at a comfortable arm's length

OS reference:	272190 E 411328 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mark II
Eye level:	466.07 m AOD	Principal distance	812.5 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	109°	Paper size:	841 x 297 mm	Camera height:	1.5 m AGL
Nearest turbine:	8.566 km	Correct printed image size:	820 x 260 mm	Date and time:	24/08/17, 09:48

Figure: 6.37g
Viewpoint 10: Benbradagh Mountain