



Limekiln Wind Farm

Section 36C Variation Application

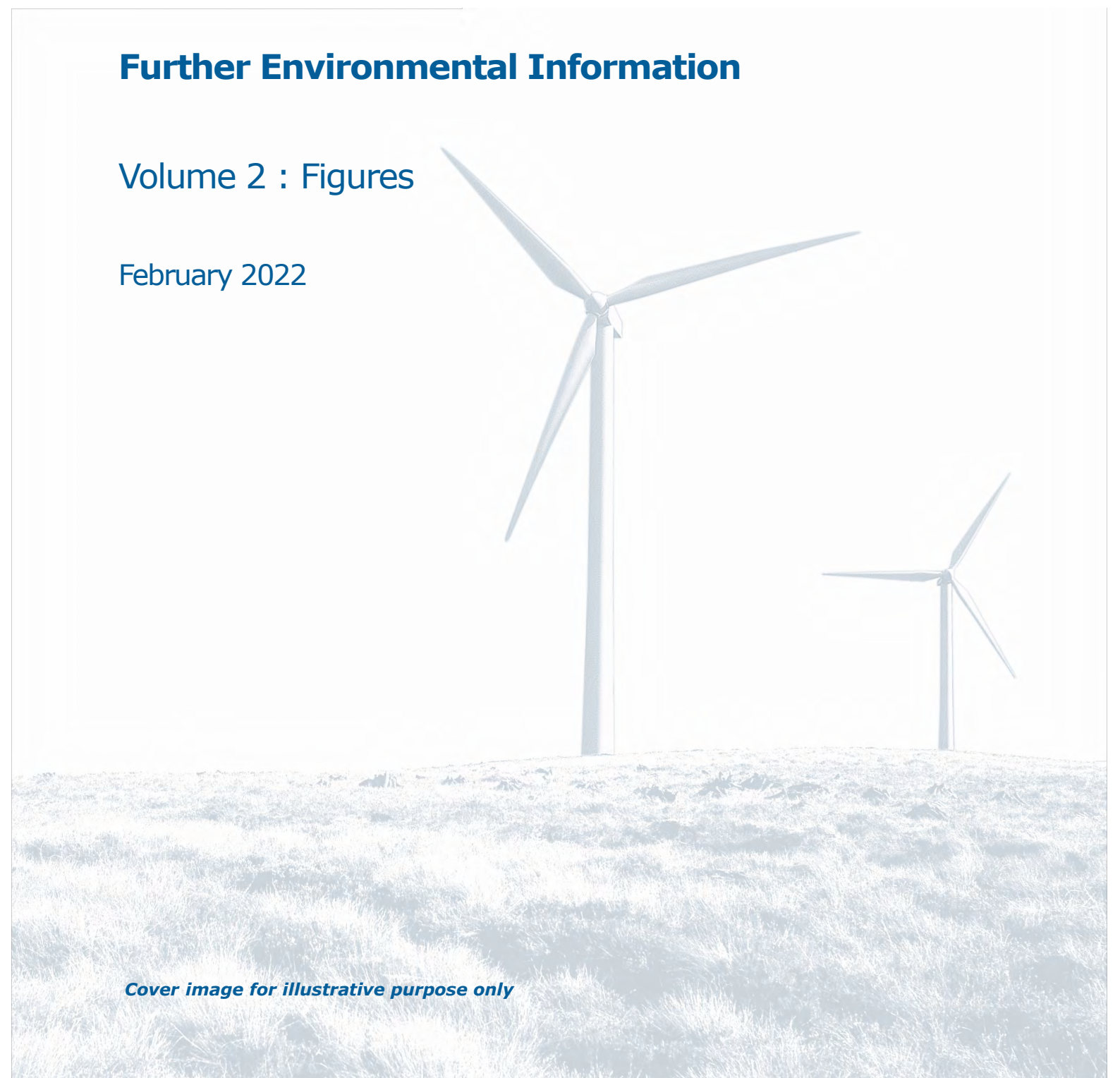
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Further Environmental Information

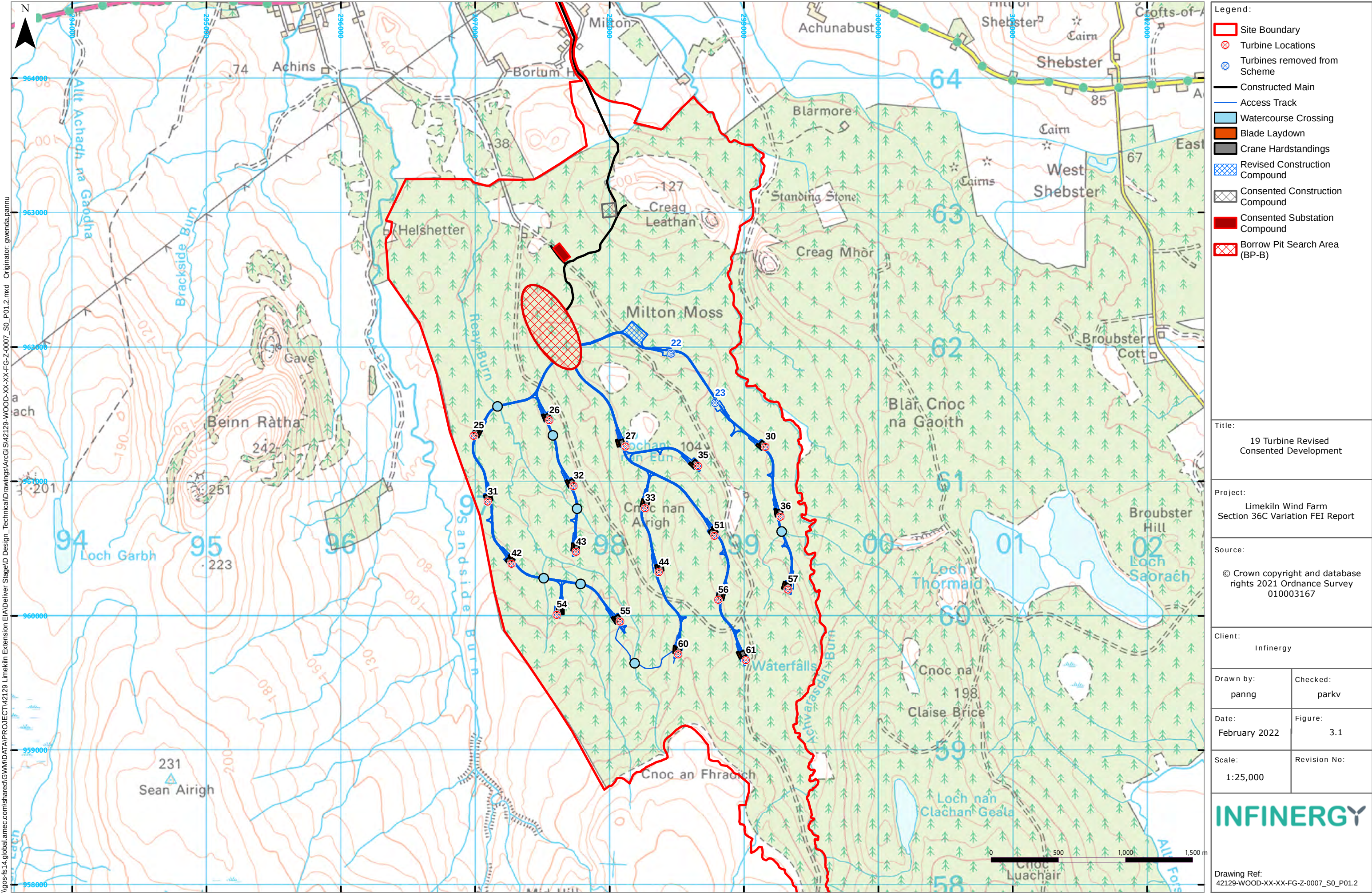
Volume 2 : Figures

February 2022



Cover image for illustrative purpose only

Figure 3.1: 19 Turbine Revised Consented Development

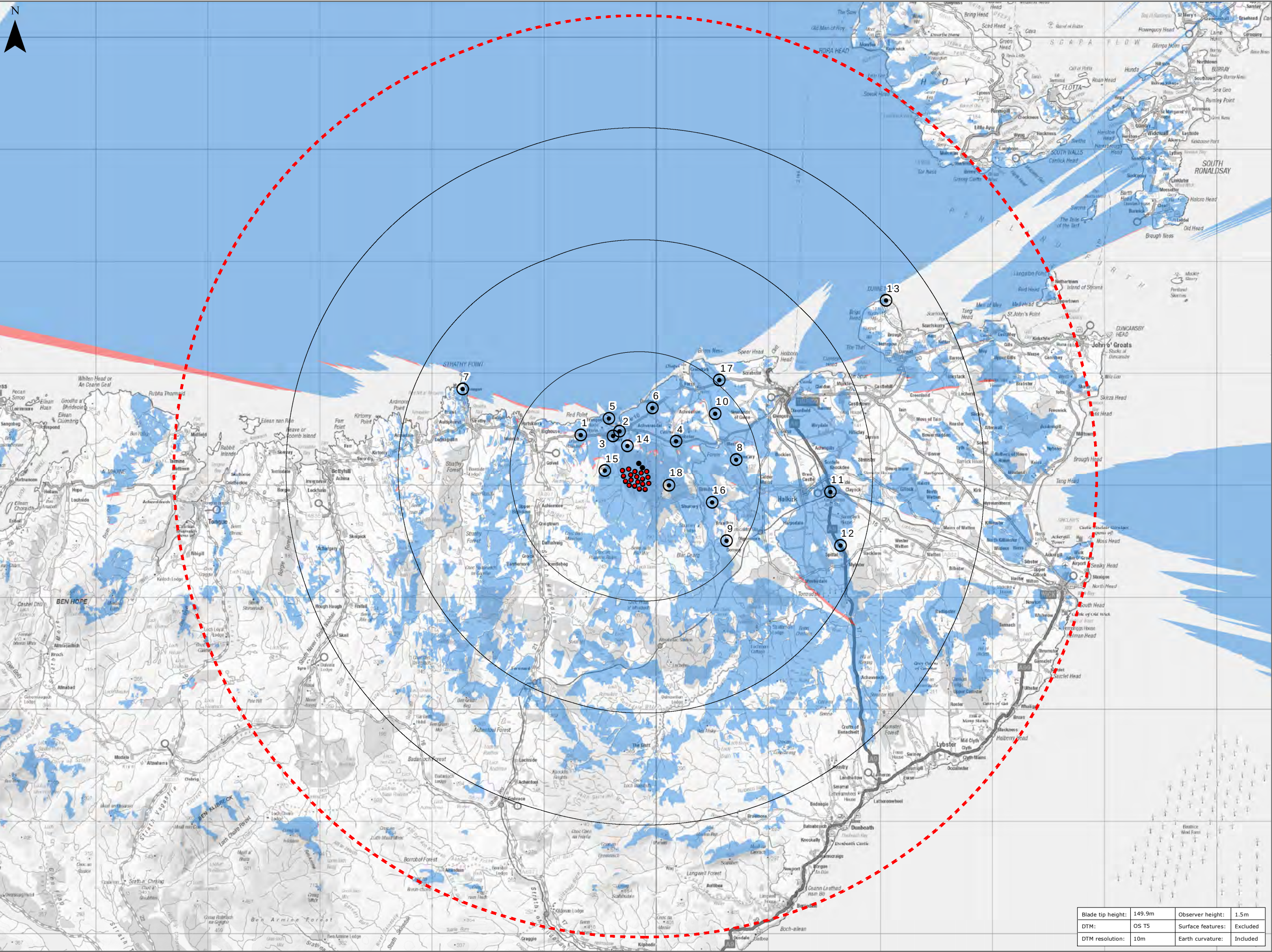


February 2022

Limekiln Wind Farm Section 36C Variation
Further Environmental Information

Figures supporting Chapter 9 Landscape and Visual Impact Assessment

- Figure 9.1: Comparative Blade Tip ZTV comparing the 21 turbine EIAR and 19 turbine FEI layouts;
- Figure 9.2: Comparative 90-degree wirelines for all LVIA viewpoints illustrating the 21 turbine EIAR and 19 turbine FEI layouts.
(Updated EIAR Figure Numbers 9.37c to 9.54b)



Legend:

- Proposed FEI (19 Turbine) Layout
- Proposed s36c (21 Turbine) Layout
- 10km Distance Radii
- 40km Study Area
- Limekiln s36c (21 Turbine) Layout Visible Only
- Combined Limekiln s36c (21 Turbine) Layout & FEI (19 Turbine) Layout Visible
- Viewpoint Location

- A836 Layby at Drum Hollistan
- Reay Footpath
- A836, Reay Church
- Shebster
- Sandside Bay Harbour
- A836, Dounreay Road Junction
- Strathly Point Car Park
- Angler's Car Park, Loch Calder
- Ben Dorrery
- Minor Road Lythmore Junction
- Georgemas Junction Station
- A9, north of Spittal
- Dunnet Head
- Borlum Hill
- Beinn Ratha
- Shurrery
- A836, Hill of Forss
- Broubster Forest

Title:
Comparative Blade Tip ZTV

Limekiln Wind Farm S36C FEI

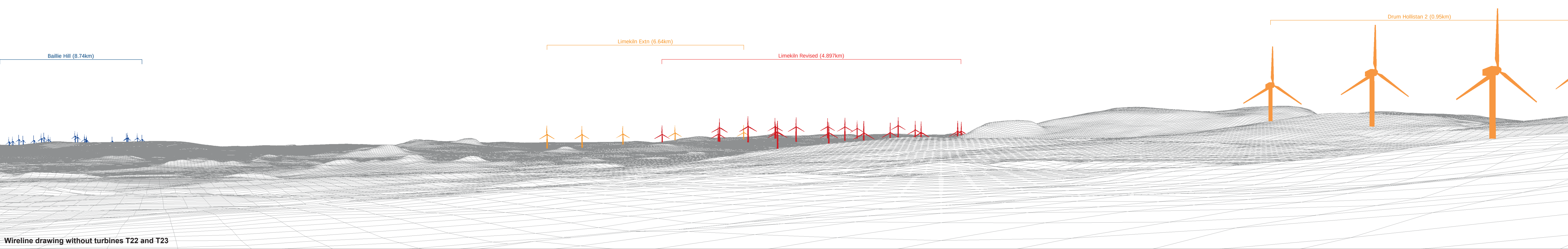
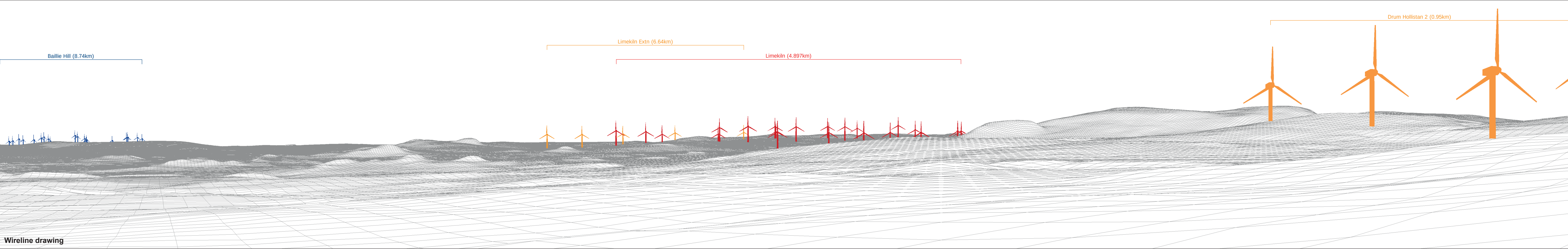
Source:
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Client:
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Drawn by: TH	Checked: JW
Date: 26/01/2022	Figure: FEI 001
Scale: 0 2.5 5 km	Revision No: 0

Blade tip height:	149.9m	Observer height:	1.5m
DTM:	OS T5	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

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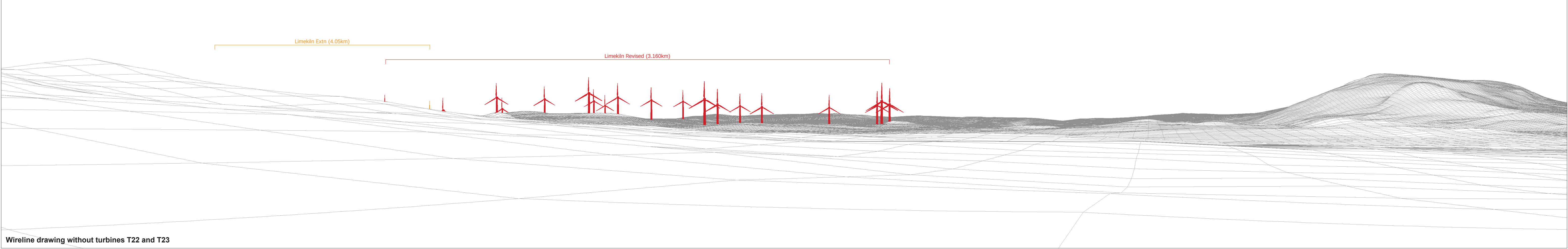
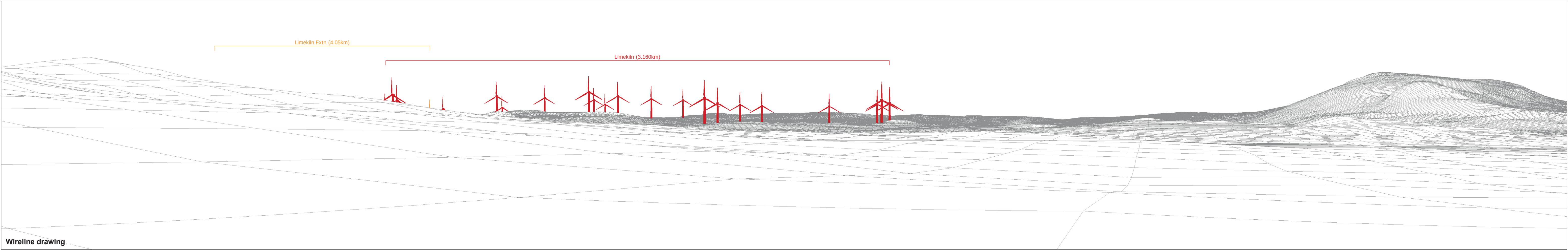


OS reference: 293267 E 964523 N
Eye level: 90.5 m AOD
Direction of view: 126°
Nearest turbine: 4.897 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm

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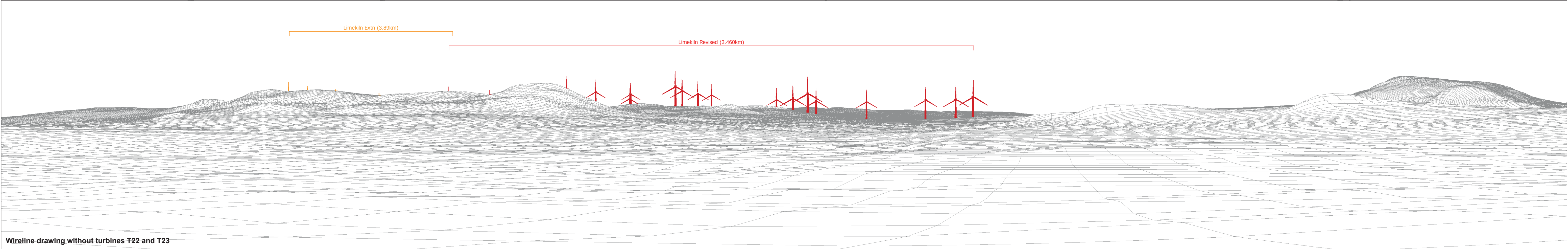
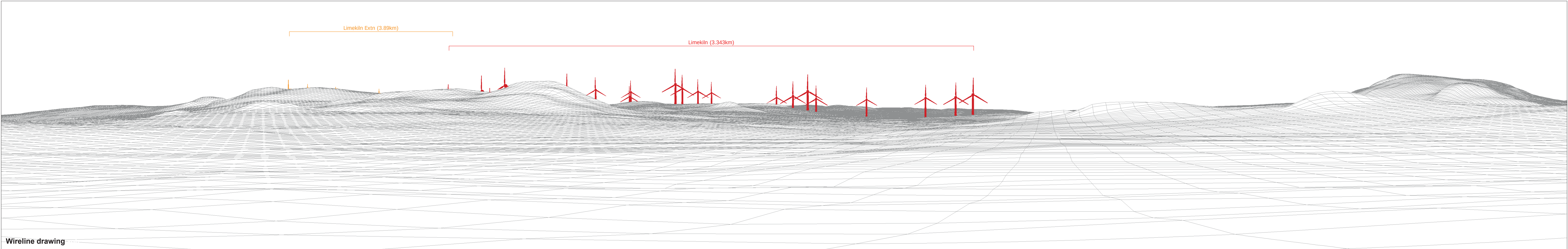
Comparative wirelines showing removal of Turbines T22 and T23
Figure: 9.37c
NS Viewpoint 1: A836 Layby at Drum Hollistan



OS reference: 296149 E 964385N
Eye level: 29.08 m AOD
Direction of view: 159°
Nearest turbine: 3.160 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm

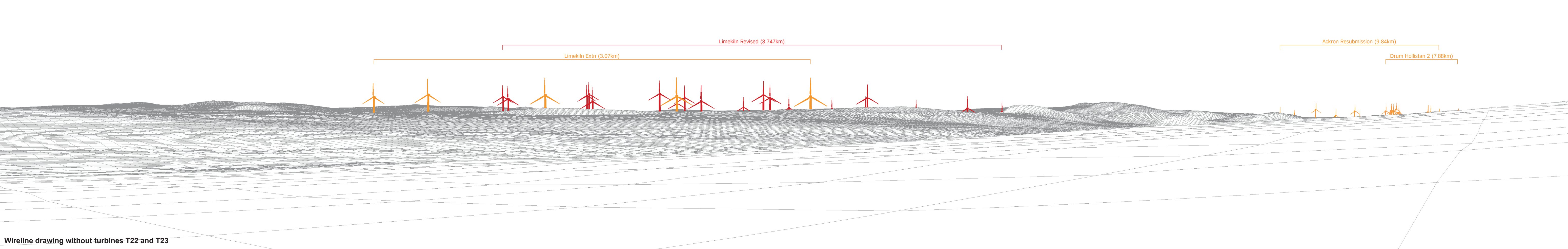
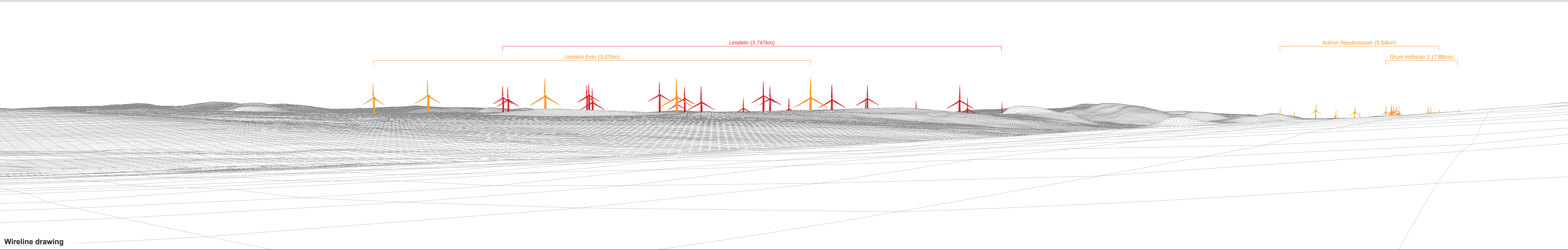
Comparative wirelines showing removal of Turbines T22 and T23
Figure: 9.38b
NS Viewpoint 2: Reay Footpath



OS reference: 296735 E 964816 N
Eye level: 20.75 m AOD
Direction of view: 165°
Nearest turbine: 3.343 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm

Comparative wirelines showing removal of Turbines T22 and T23
Figure: 9.39c
NS Viewpoint 3: A836, Reay Church

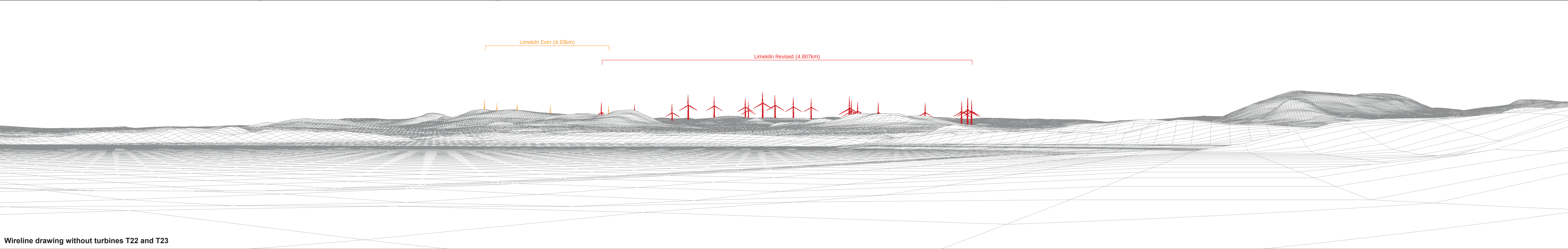
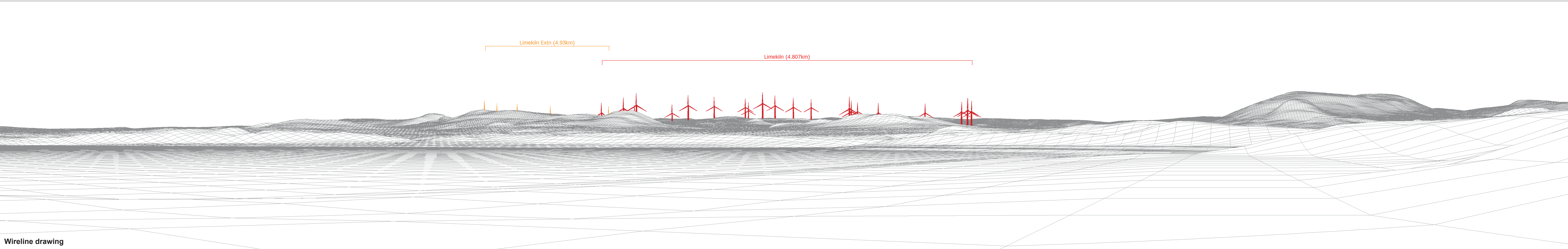


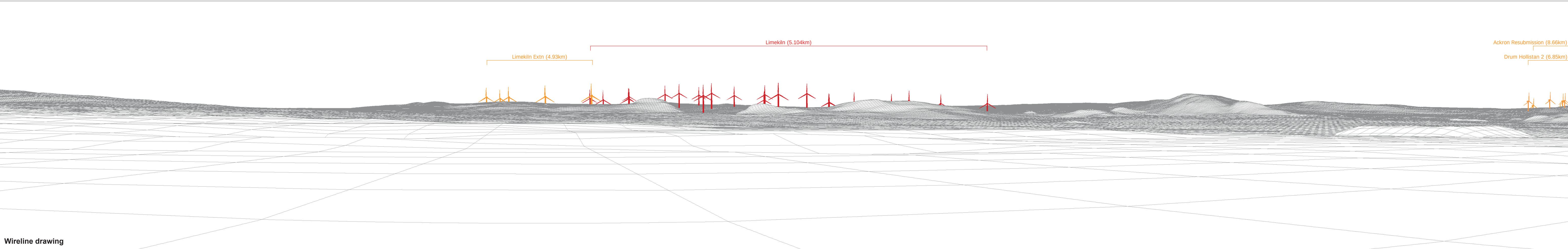
OS reference: 301776 E 963941 N
Eye level: 83.18 m AOD
Direction of view: 229°
Nearest turbine: 3.747 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm

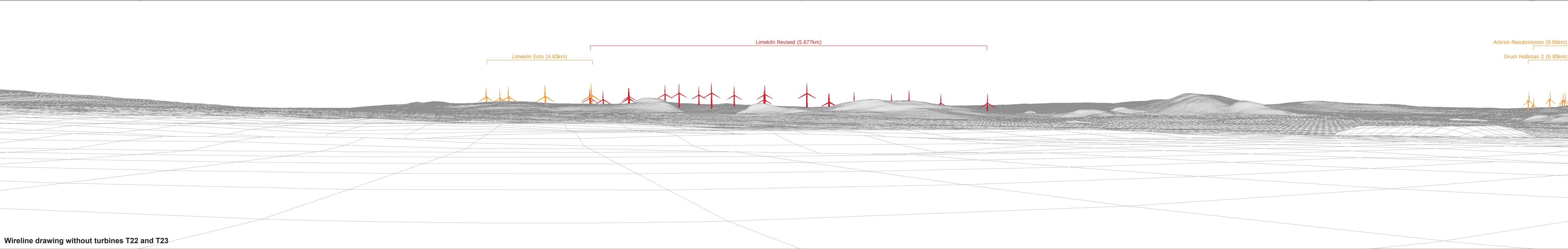
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Comparative wirelines showing removal of Turbines T22 and T23
Figure: 9.40d
NS Viewpoint 4: Shebster

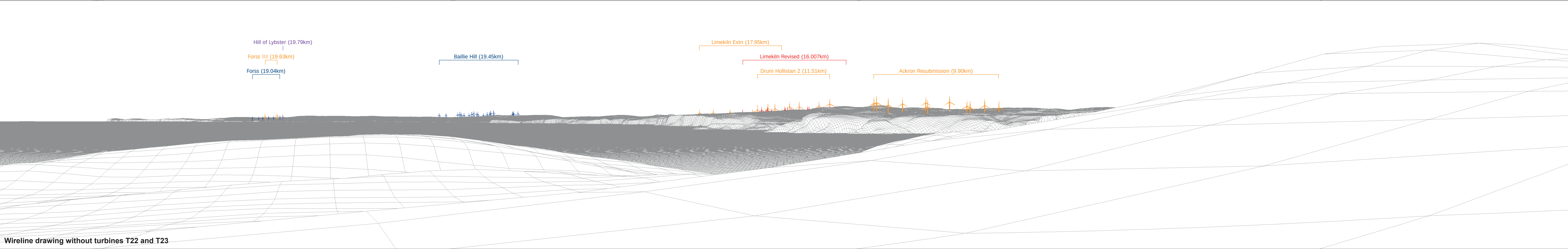
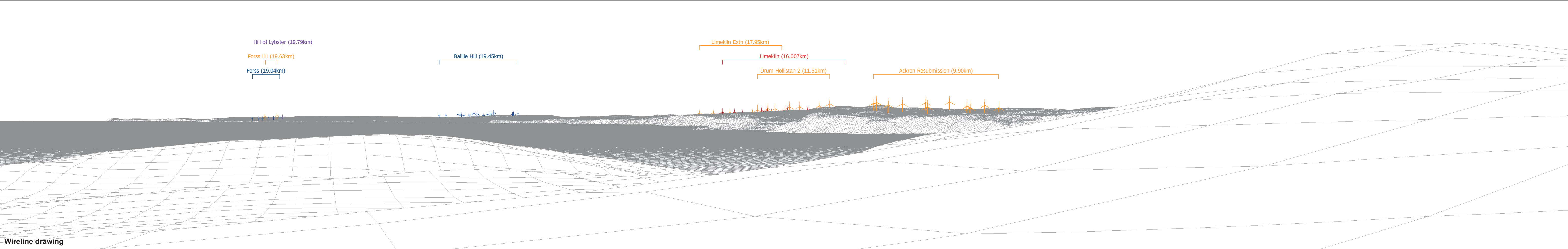




Wireline drawing



Wireline drawing without turbines T22 and T23

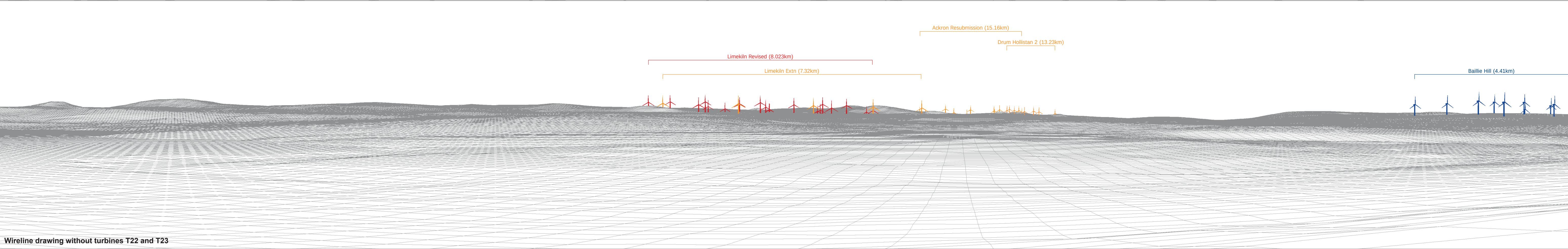
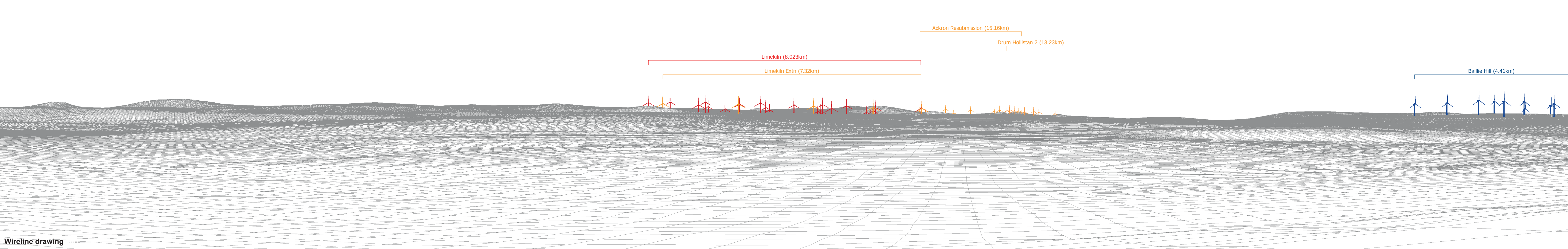


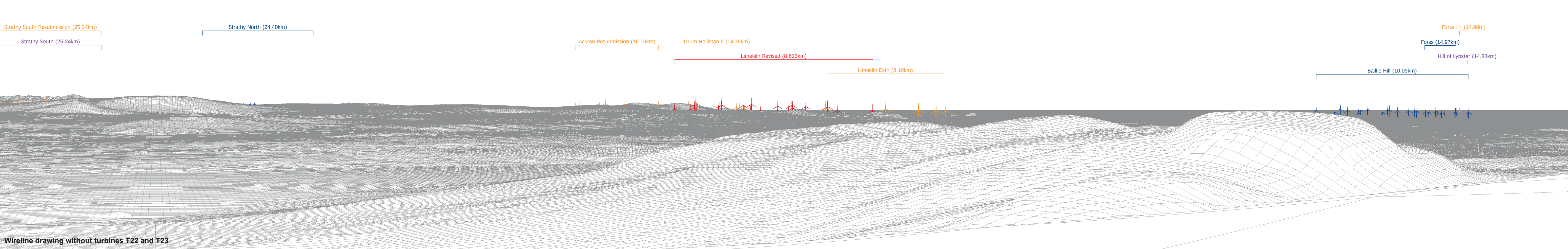
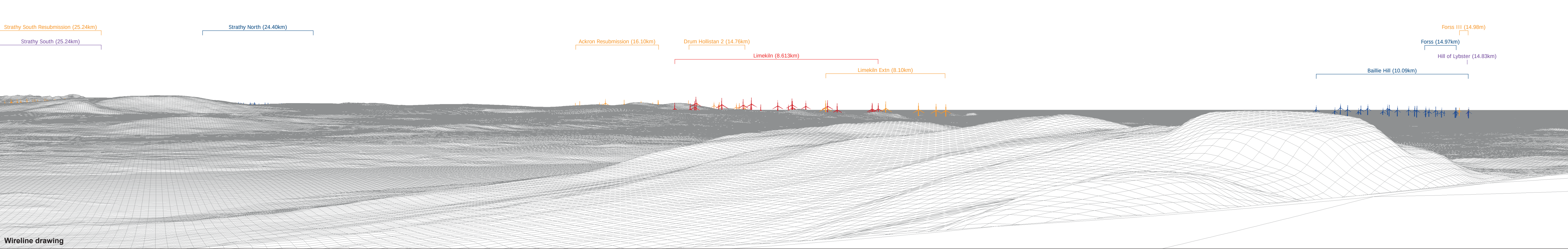
OS reference: 282724 E 968602 N
Eye level: 61.17 m AOD
Direction of view: 116.46°
Nearest turbine: 16.007 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm

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Comparative wirelines showing removal of Turbines T22 and T23
Figure: 9.43b
NS Viewpoint 7: Strathy Point Car Park

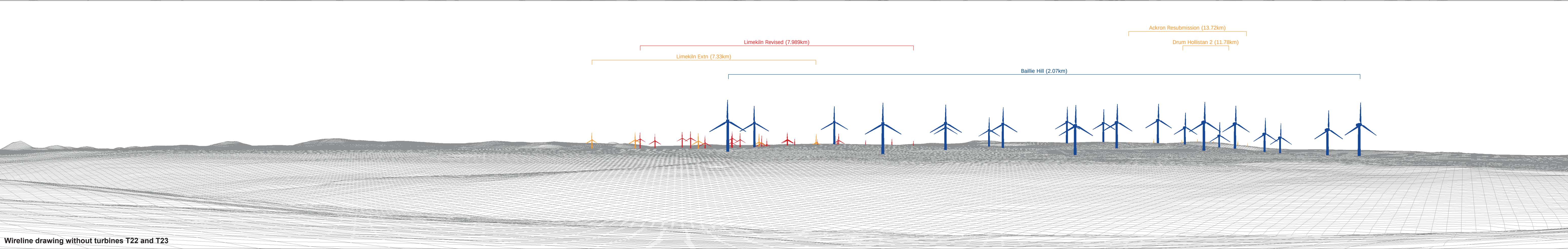
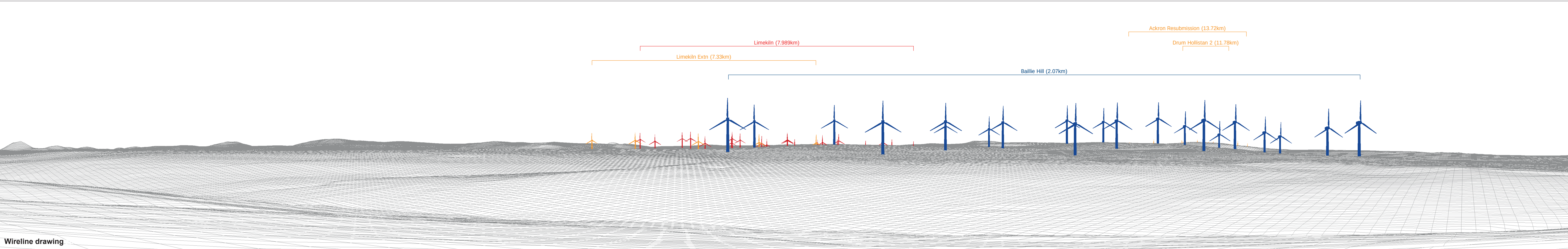




OS reference: 306287 E 955051 N
Eye level: 245.42 m AOD
Direction of view: 306°
Nearest turbine: 8.614 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm

Comparative wirelines showing removal of Turbines T22 and T23
Figure: 9.45c
NS Viewpoint 9: Ben Dorrery

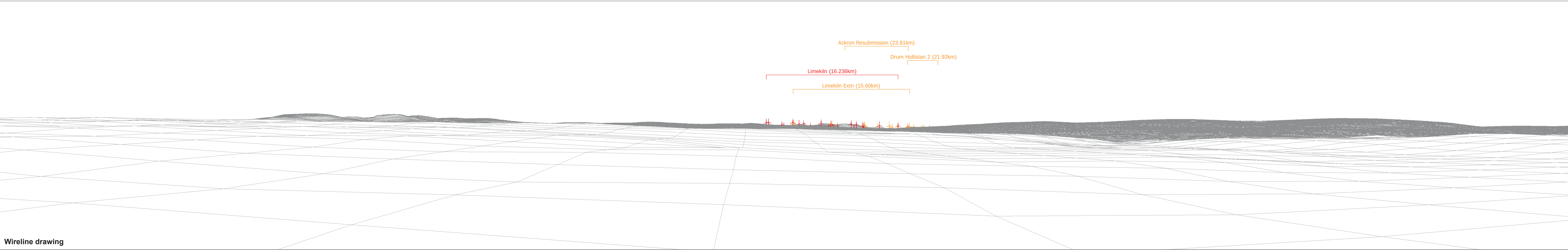


OS reference: 305255 E 966422 N
Eye level: 74.97 m AOD
Direction of view: 231°
Nearest turbine: 7.989 km

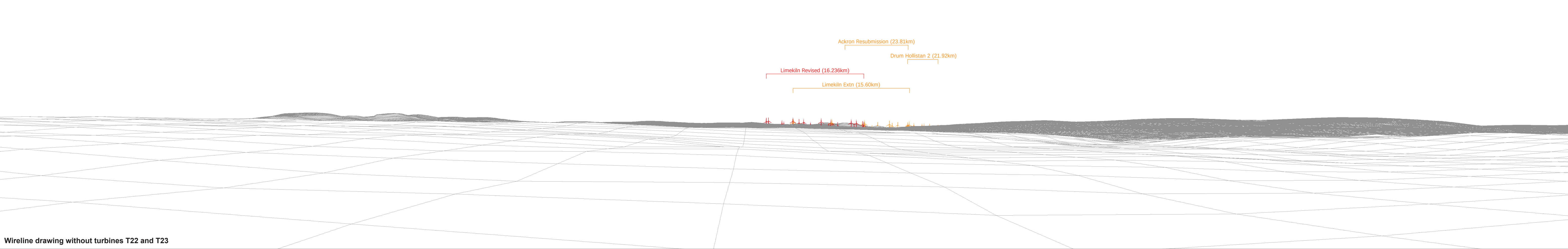
Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm

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Comparative wirelines showing removal of Turbines T22 and T23
Figure: 9.46c
NS Viewpoint 10: Minor road Lythmore Junction



Wireline drawing



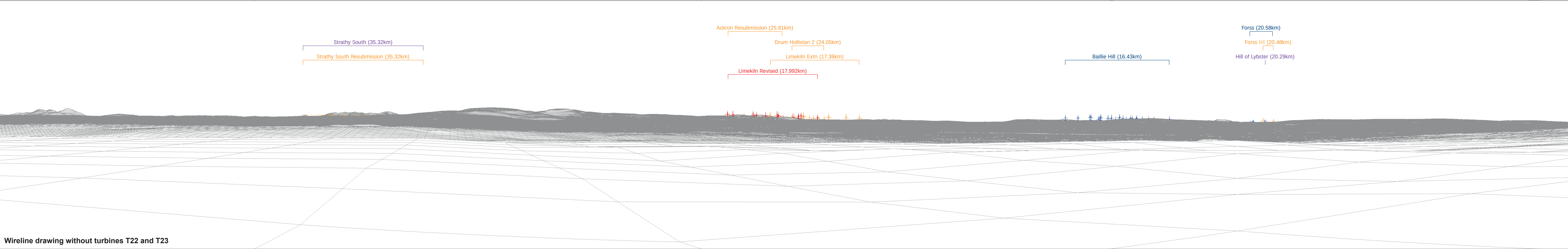
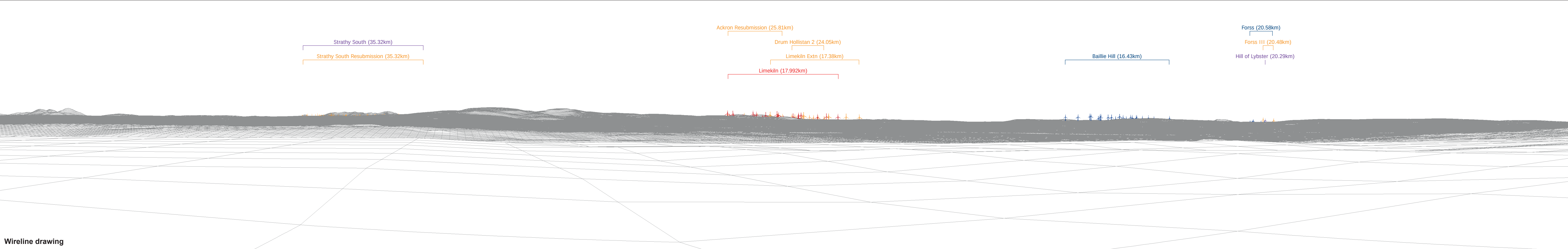
Wireline drawing without turbines T22 and T23

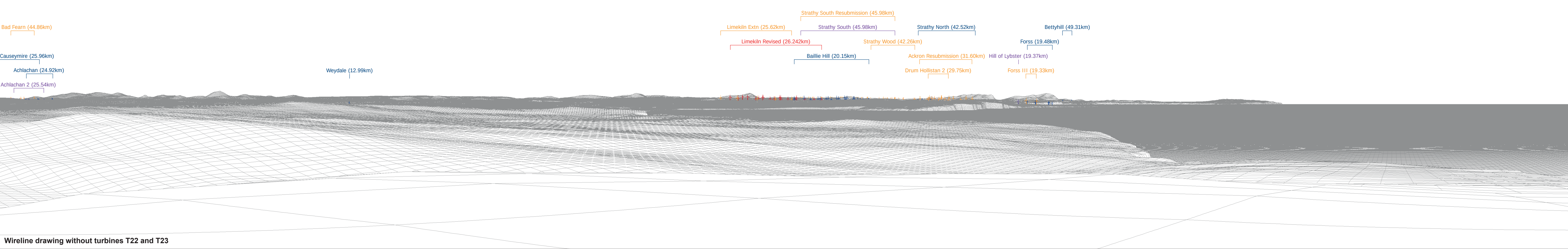
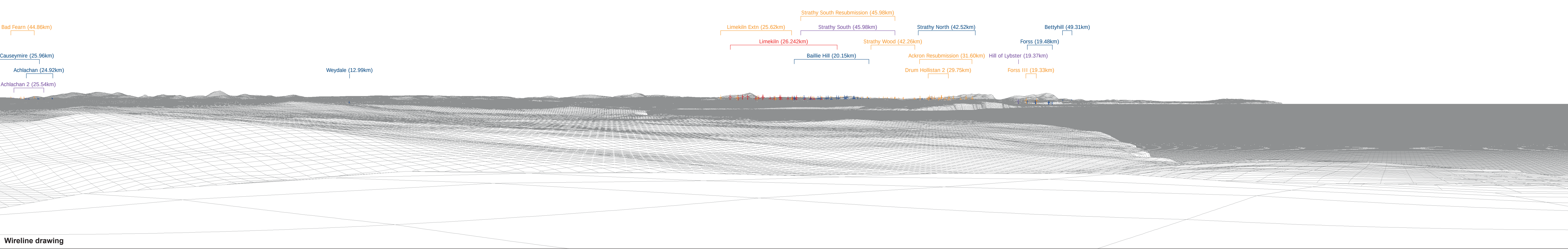
OS reference: 315546 E 959421 N
Eye level: 50.4 m AOD
Direction of view: 272°
Nearest turbine: 16.236 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm

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Comparative wirelines showing removal of Turbines T22 and T23
Figure: 9.47d
NS Viewpoint 11: Georgemas Junction Station

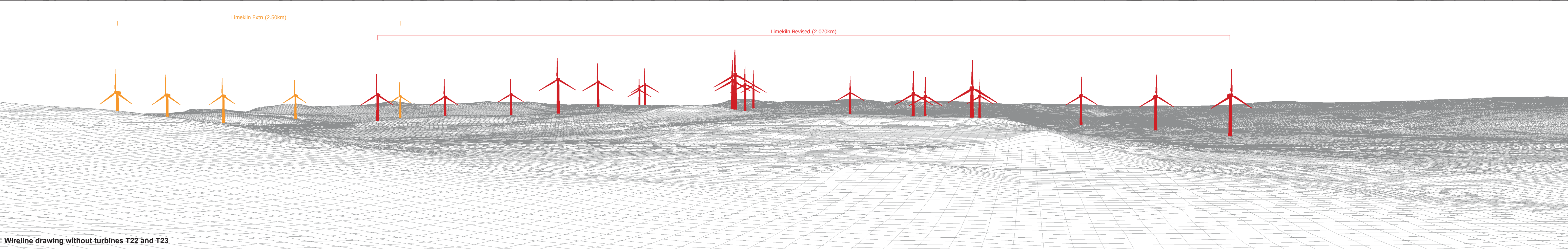
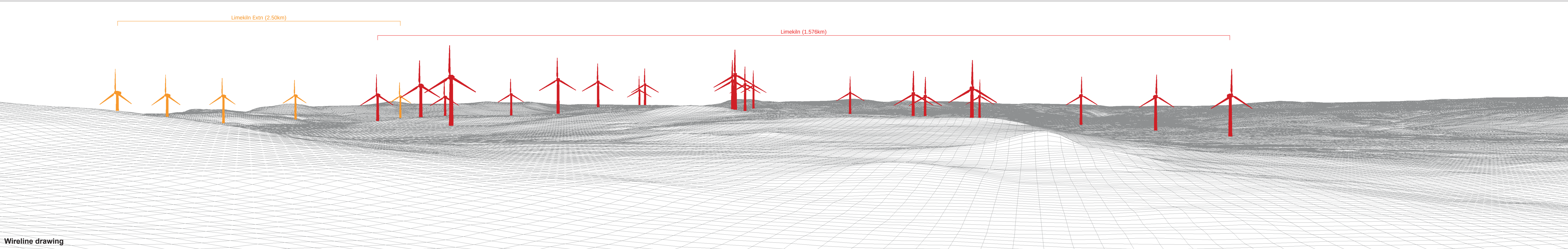




OS reference: 320519 E 976504 N
Eye level: 128.17 m AOD
Direction of view: 235°
Nearest turbine: 26.242 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm

Comparative wirelines showing removal of Turbines T22 and T23
Figure: 9.49c
NS Viewpoint 13: Dunnet Head

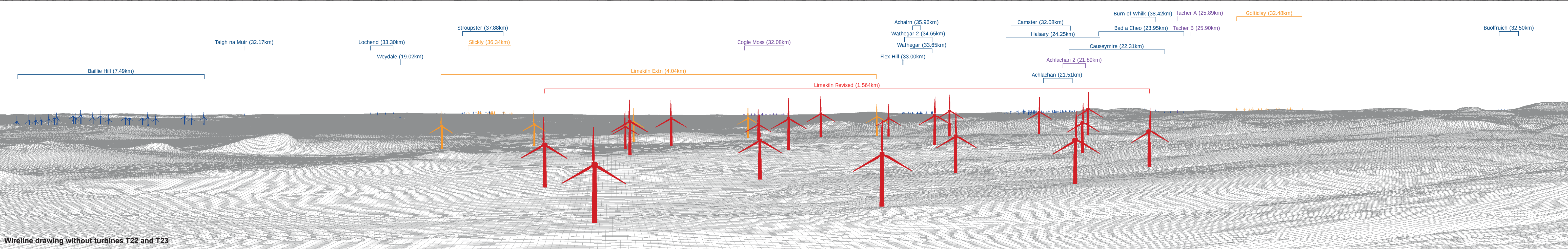
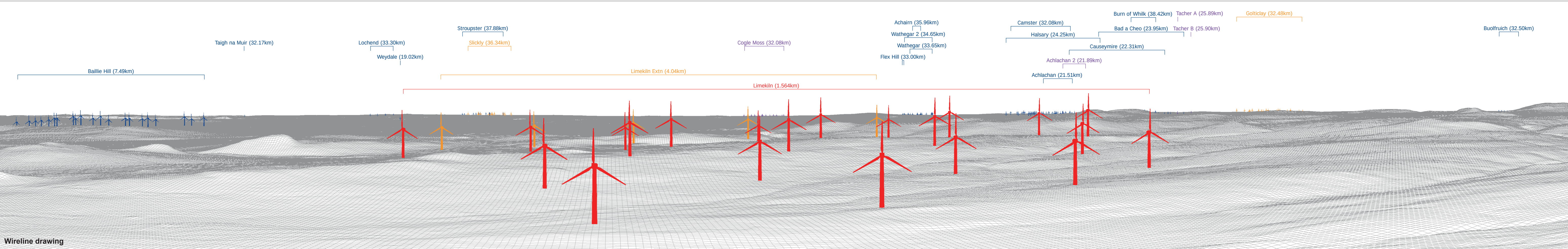


OS reference: 297435 E 963520 N
Eye level: 97 m AOD
Direction of view: 166°
Nearest turbine: 1.873 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm

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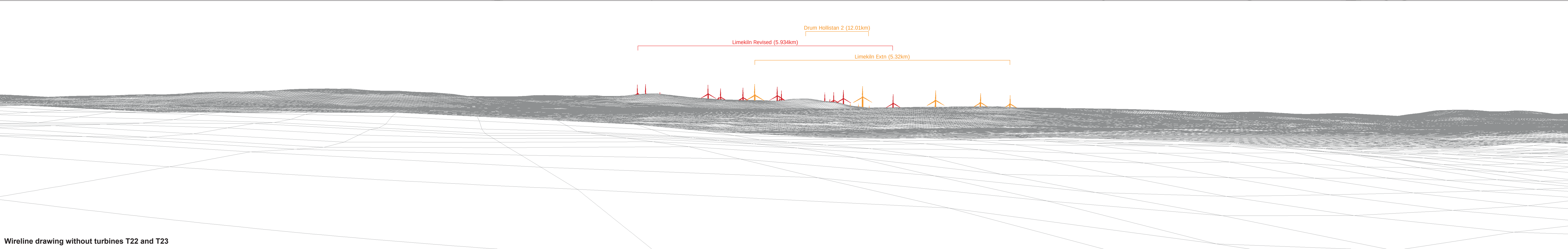
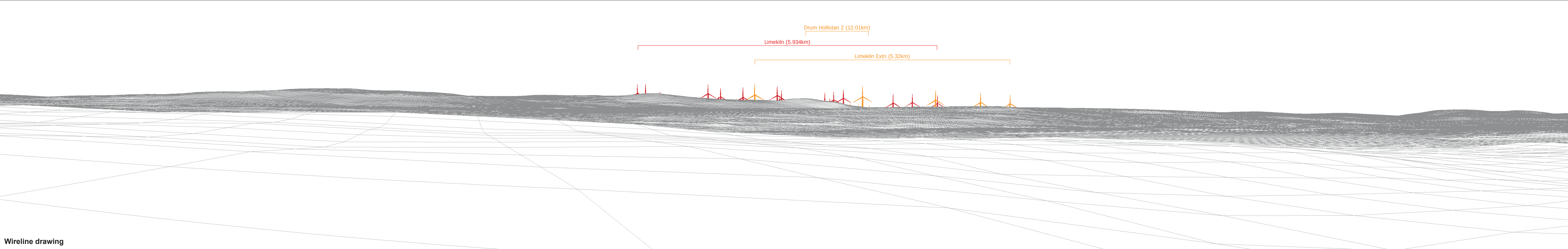
Comparative wirelines showing removal of Turbines T22 and T23
Figure: 9.50c
NS Viewpoint 14: Borlum Hill



OS reference: 295424 E 961314 N
Eye level: 242.4 m AOD
Direction of view: 100°
Nearest turbine: 1.564 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm

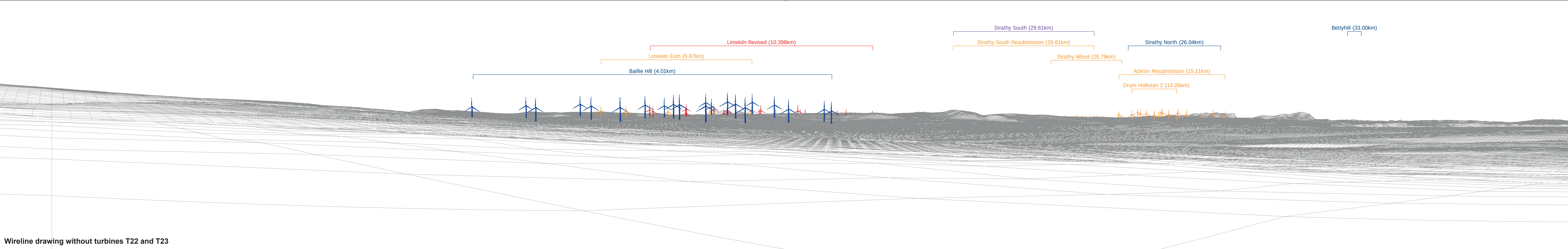
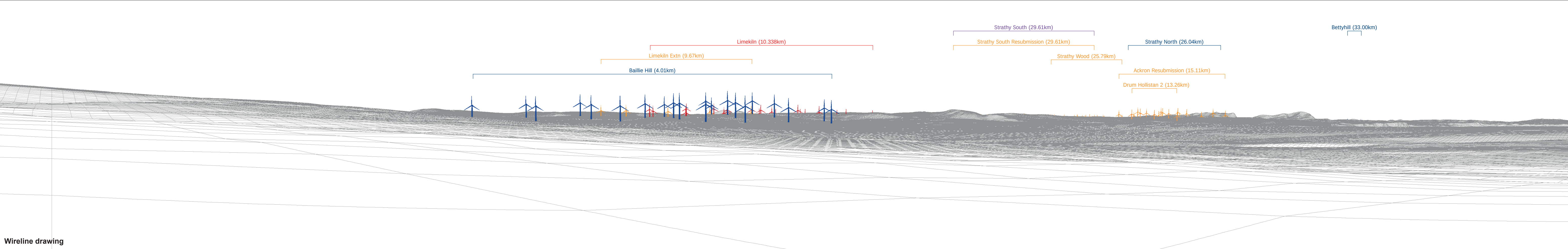
Comparative wirelines showing removal of Turbines T22 and T23
Figure: 9.51c
NS Viewpoint 15: Beinn Ratha



OS reference: 305014 E 958497 N
Eye level: 100.82 m AOD
Direction of view: 289°
Nearest turbine: 5.934 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm

Comparative wirelines showing removal of Turbines T22 and T23
Figure: 9.52b
NS Viewpoint 16: Shurrery

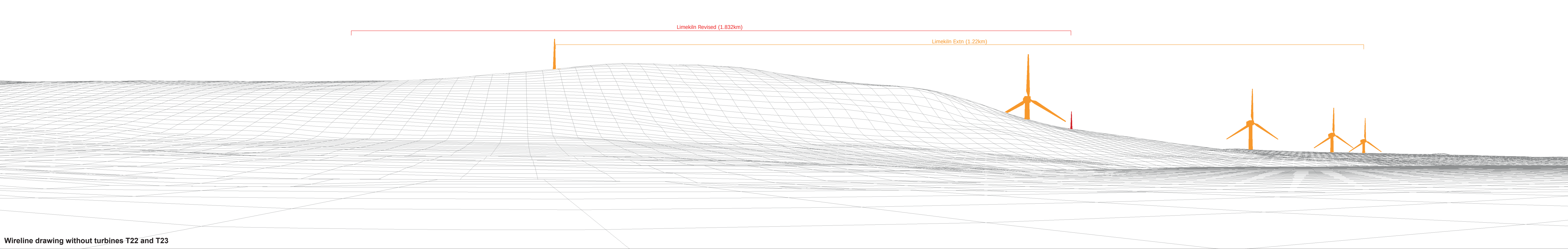
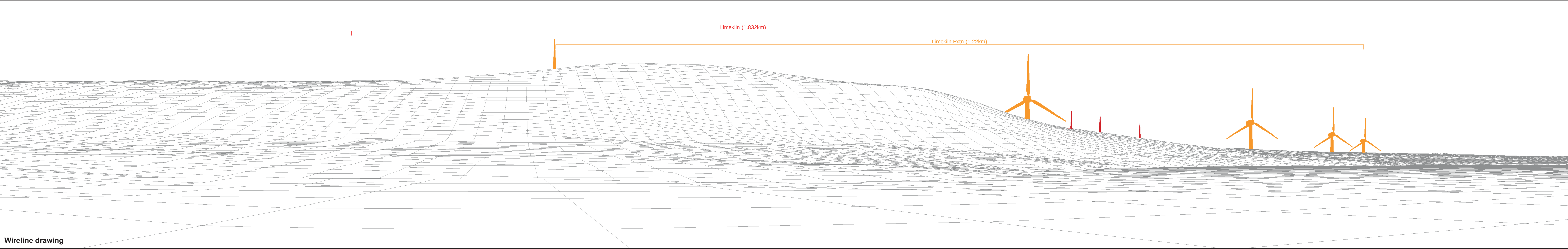


OS reference: 305640 E 969387 N
Eye level: 73 m AOD
Direction of view: 222°
Nearest turbine: 10.338 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm

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Comparative wirelines showing removal of Turbines T22 and T23
Figure: 9.53b
NS Viewpoint 17: A836, Hill of Forss



OS reference: 301154 E 960038 N
Eye level: 111.62 m AOD
Direction of view: 285°
Nearest turbine: 1.832 km

Horizontal field of view: 90° (cylindrical projection)
Principal distance: 522 mm

Comparative wirelines showing removal of Turbines T22 and T23
Figure: 9.54b
NS Viewpoint 18: Broubster Forest Core Path