



Acheilidh Wind Farm Environmental Impact Assessment Report Volume 2 – Figures

Energiekontor UK Ltd

April 2024



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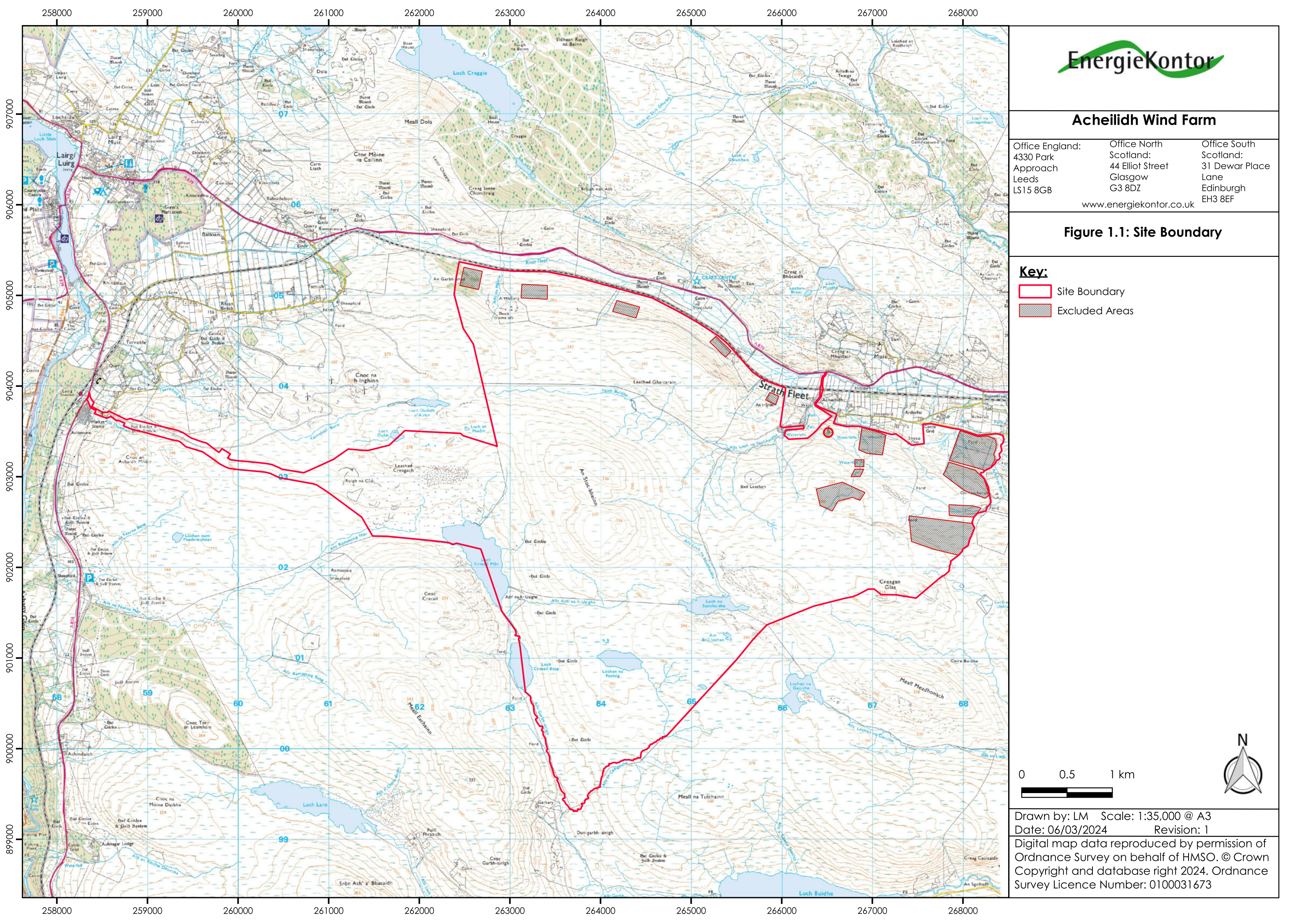
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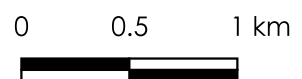
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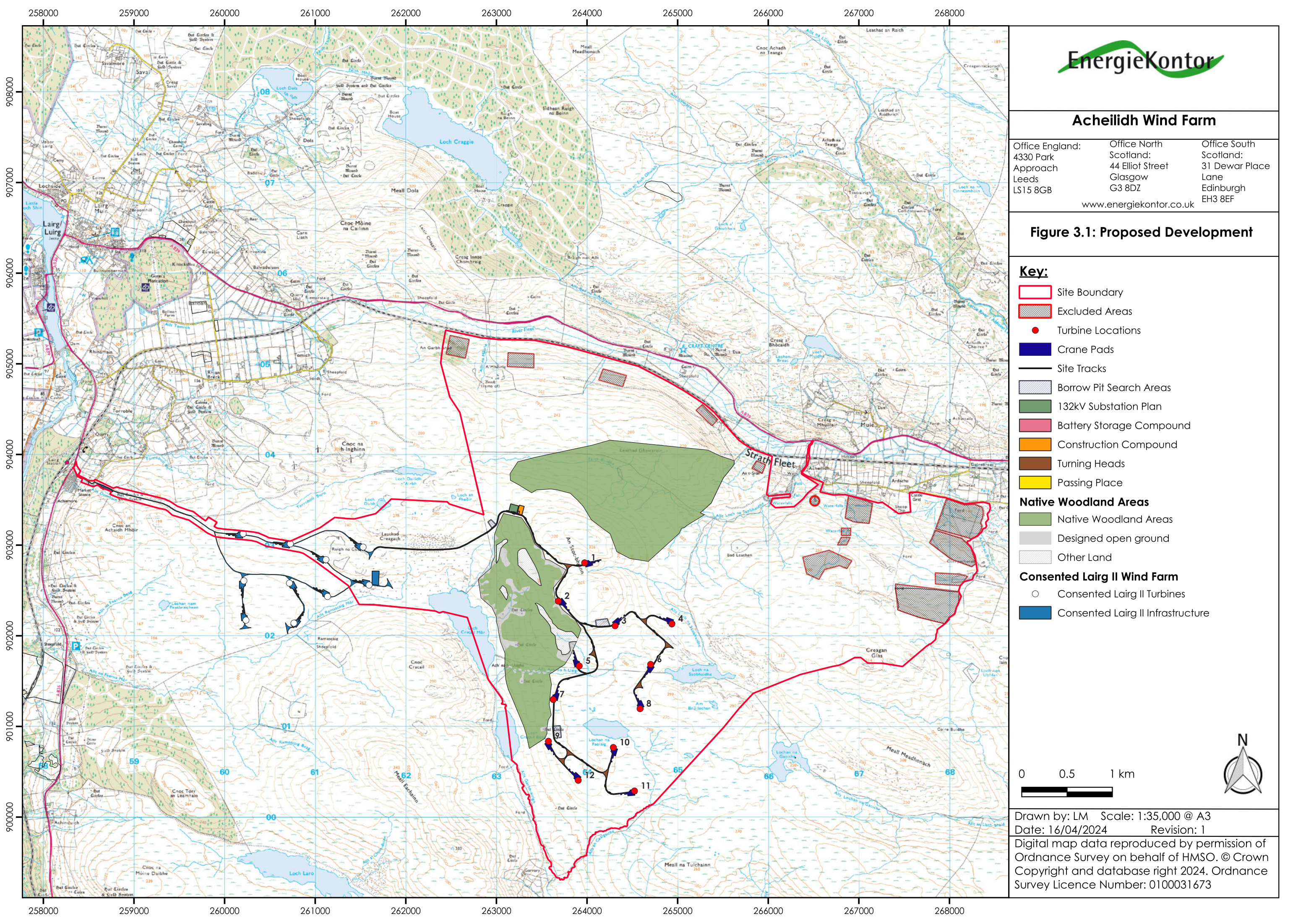
Figure 1.1: Site Boundary

Key:

- Site Boundary
- Excluded Areas



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Figure 3.1: Proposed Development

- Key:**
- Site Boundary
 - Excluded Areas
 - Turbine Locations
 - Crane Pads
 - Site Tracks
 - Borrow Pit Search Areas
 - 132kV Substation Plan
 - Battery Storage Compound
 - Construction Compound
 - Turning Heads
 - Passing Place
- Native Woodland Areas**
- Native Woodland Areas
 - Designed open ground
 - Other Land
- Consented Lairg II Wind Farm**
- Consented Lairg II Turbines
 - Consented Lairg II Infrastructure

0 0.5 1 km



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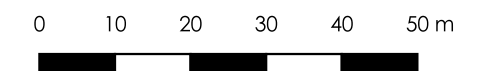
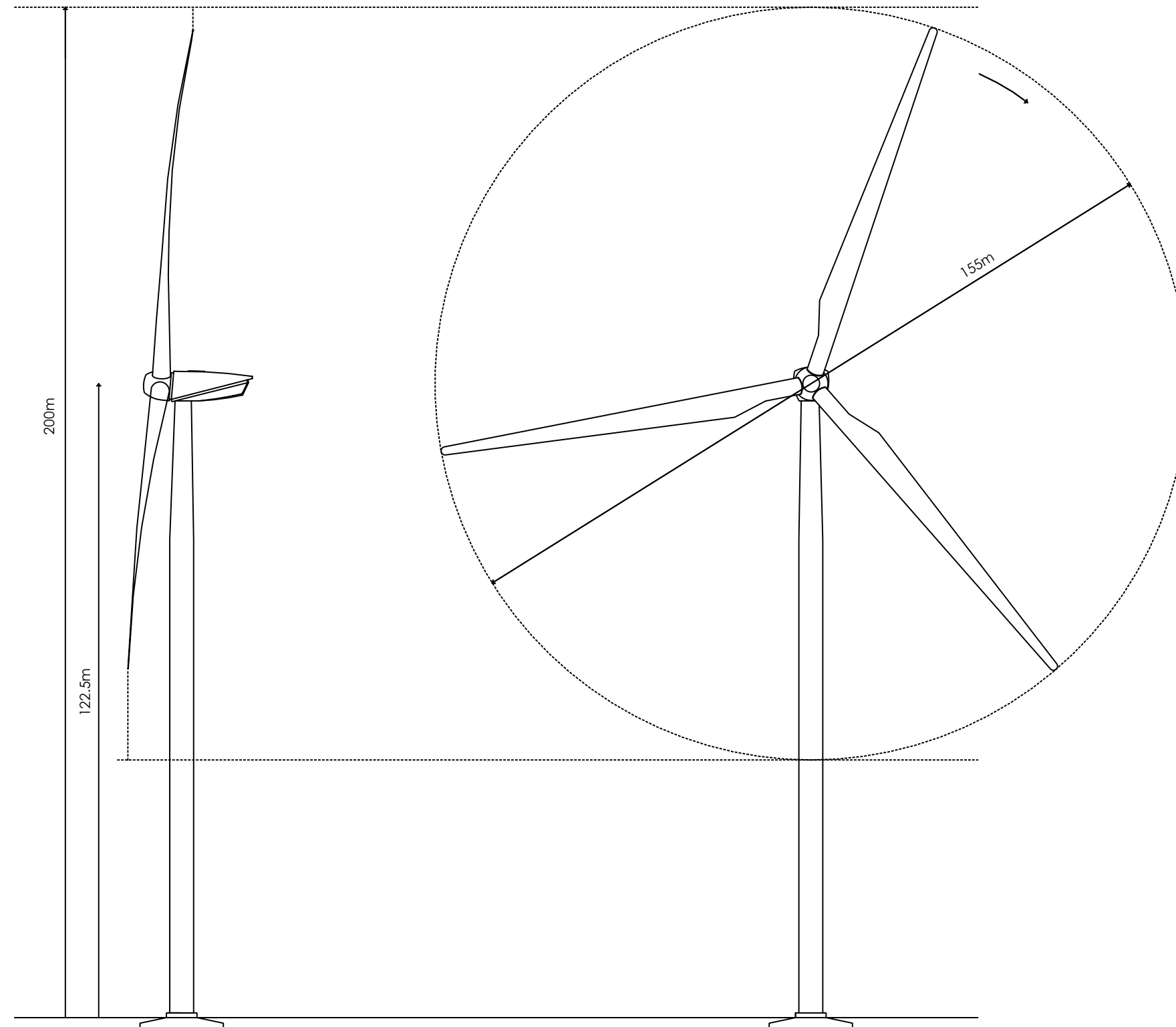
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Figure 3.2a: Typical Turbine Elevation (200m)

NOTES:

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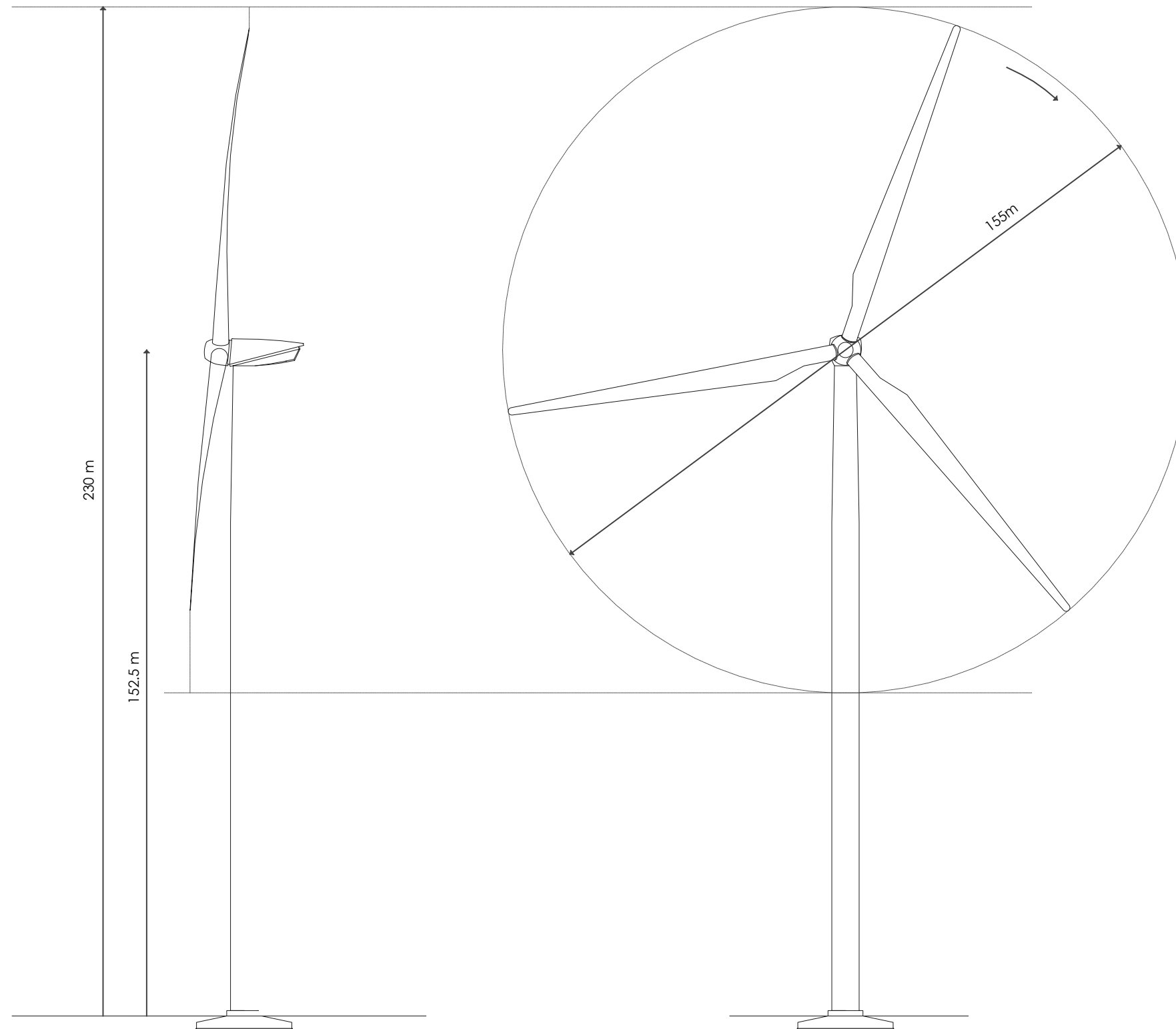
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Figure 3.2b: Typical Turbine Elevation

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0 10 20 30 40 50 m



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Figure 3.3 : Typical Turbine Foundations

KEY:

-  Turbine Base
-  Area accessible to Vehicles
-  Assumed Foundation
-  Ramp
-  Hardstanding
-  Undisturbed ground
-  Infill
-  Selected Top soil

NOTES:

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Hardstanding

Ramp

Area accessible
to vehicles

22.9m

4m

Ramp

max 1.25m

Selected top soil

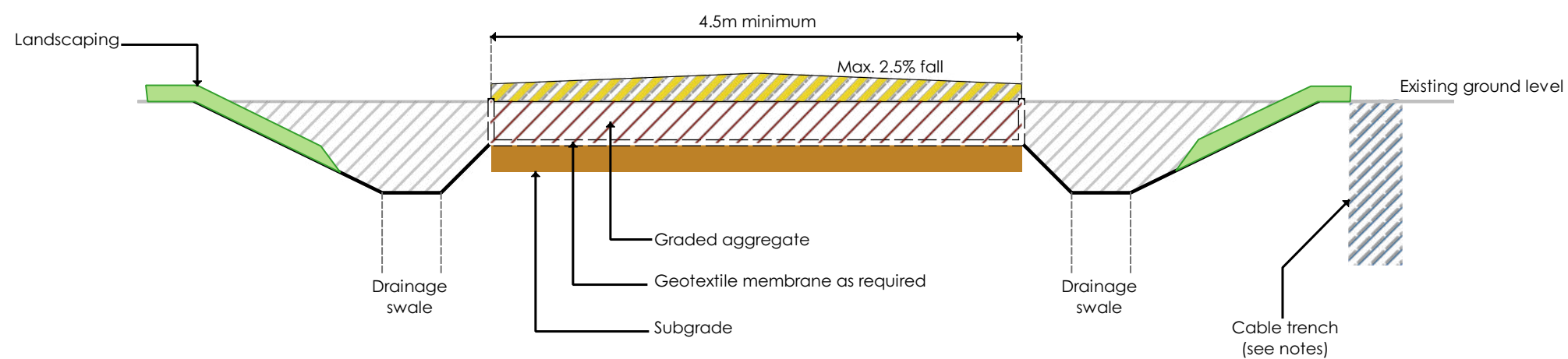
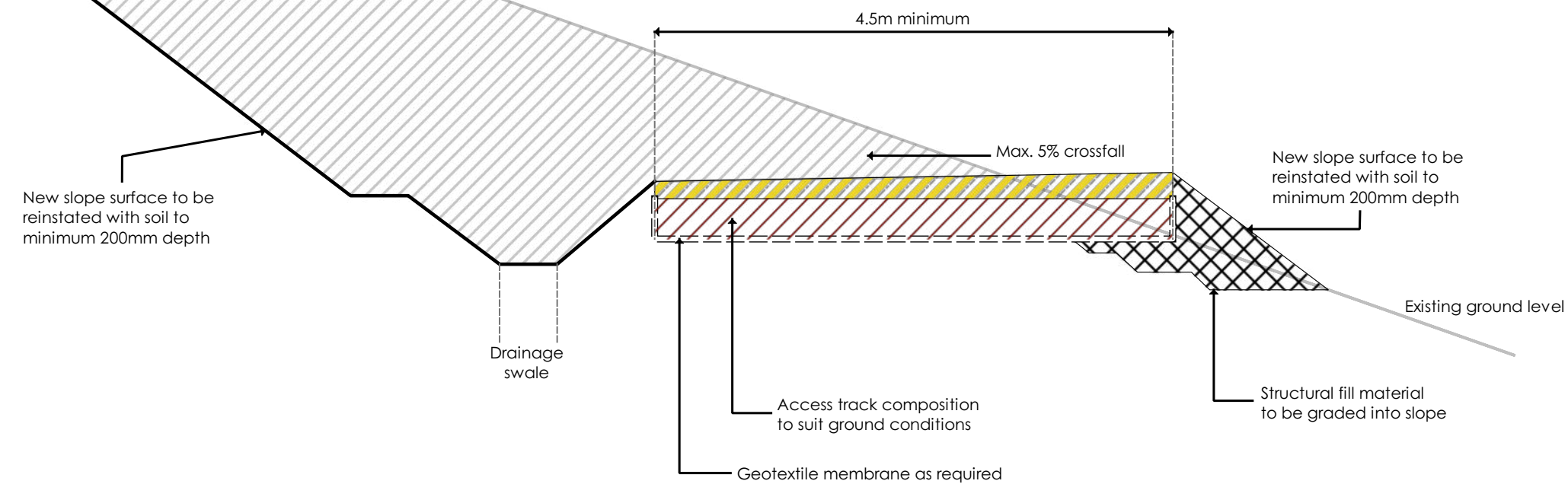
Selected infill material

Undisturbed ground

Figure 3.4 Typical Track Cross Sections

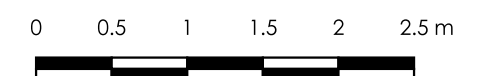
Key

-  Access Track
-  Geotextile Membrane
-  Graded Gravel
-  Subgrade
-  Structural Fill
-  Landscaping
-  Gradient
-  Cable Trench



NOTES:

1. Track width will vary depending on turbine choice, local ground conditions and at corners and crossing points.
2. The proximity of cable trenches to tracks will vary.
3. Landscaping will utilise excavated material where suitable. Spoil management will be in line with best practice.
4. Swale design will vary.



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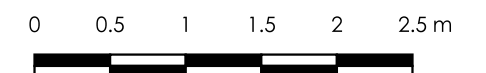
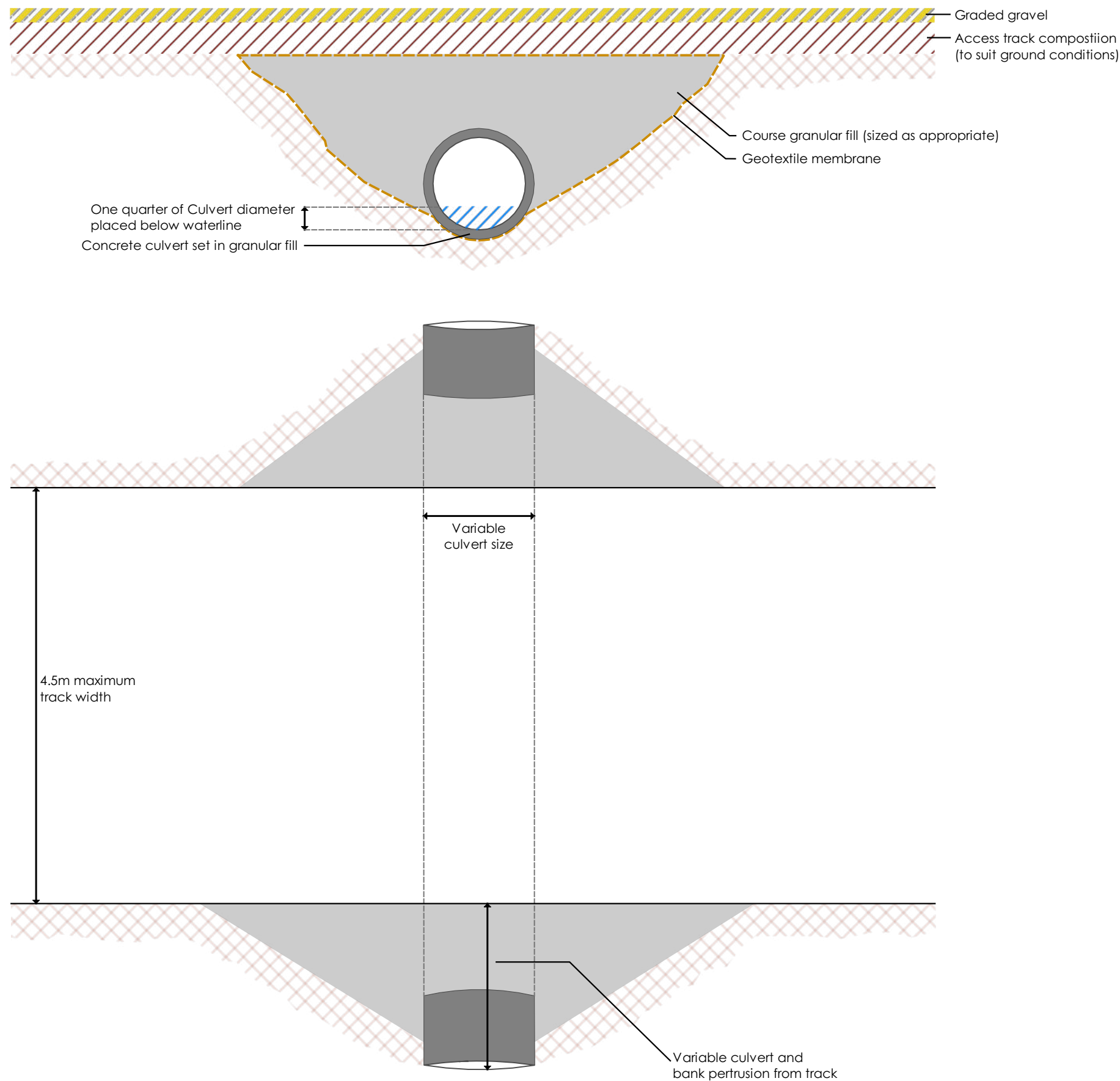
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Figure 3.5 Typical Watercourse Crossing

Key

-  Geotextile Membrane line
-  Water
-  Culvert
-  Geotextile Membrane
-  Soil
-  Granular Fill
-  Access Track
-  Graded Gravel



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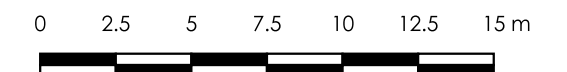
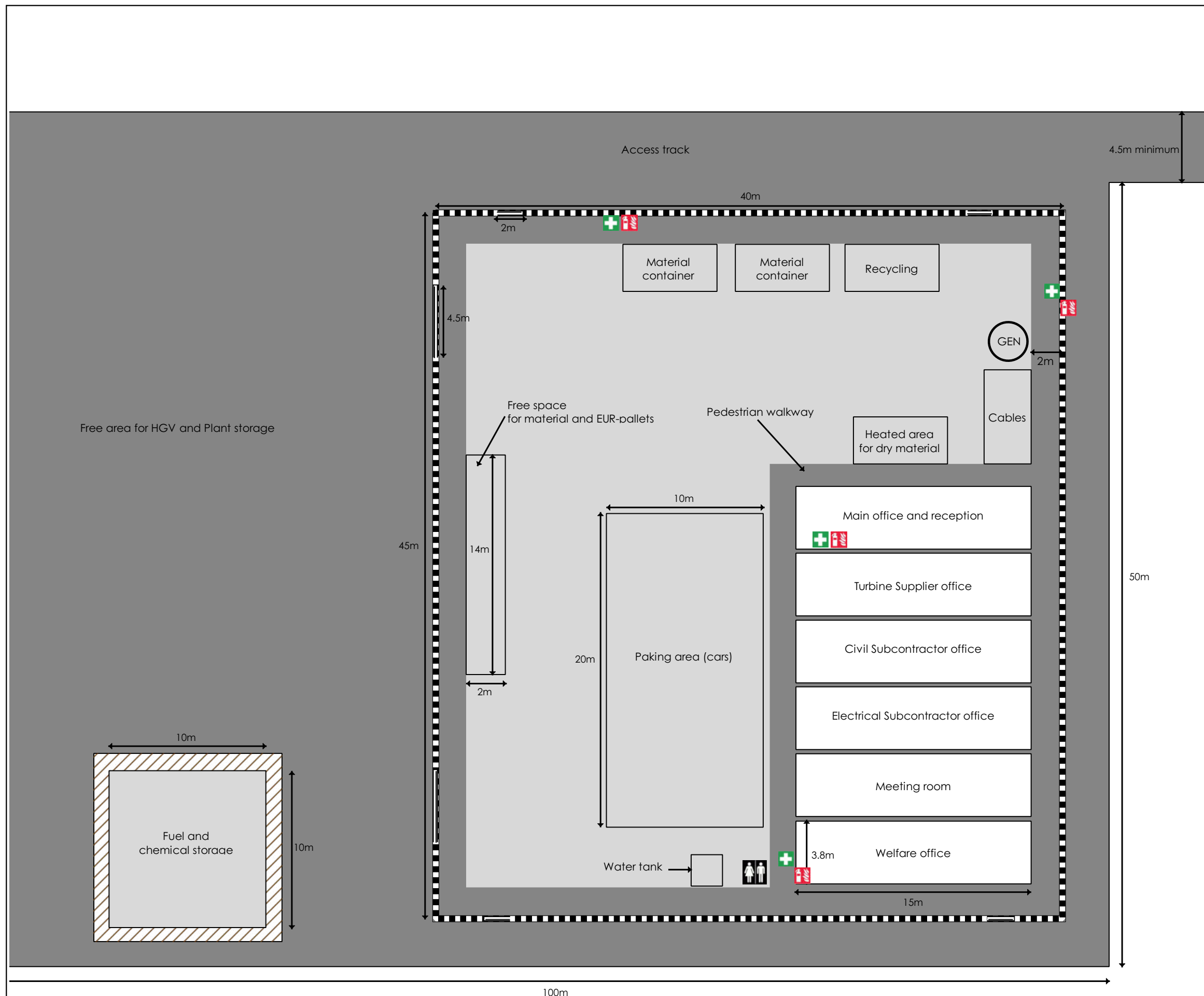
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Figure 3.6: Typical Construction Compound

KEY:

-  GEN
-  Entrance Gates
-  Compound areas
-  Areas for construction compound
-  Bunding
-  Perimeter Fence
-  Parking Area
-  Free area





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Figure 3.7: Typical Crane Hardstanding

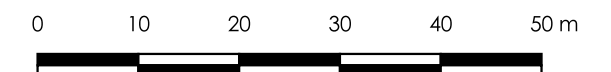
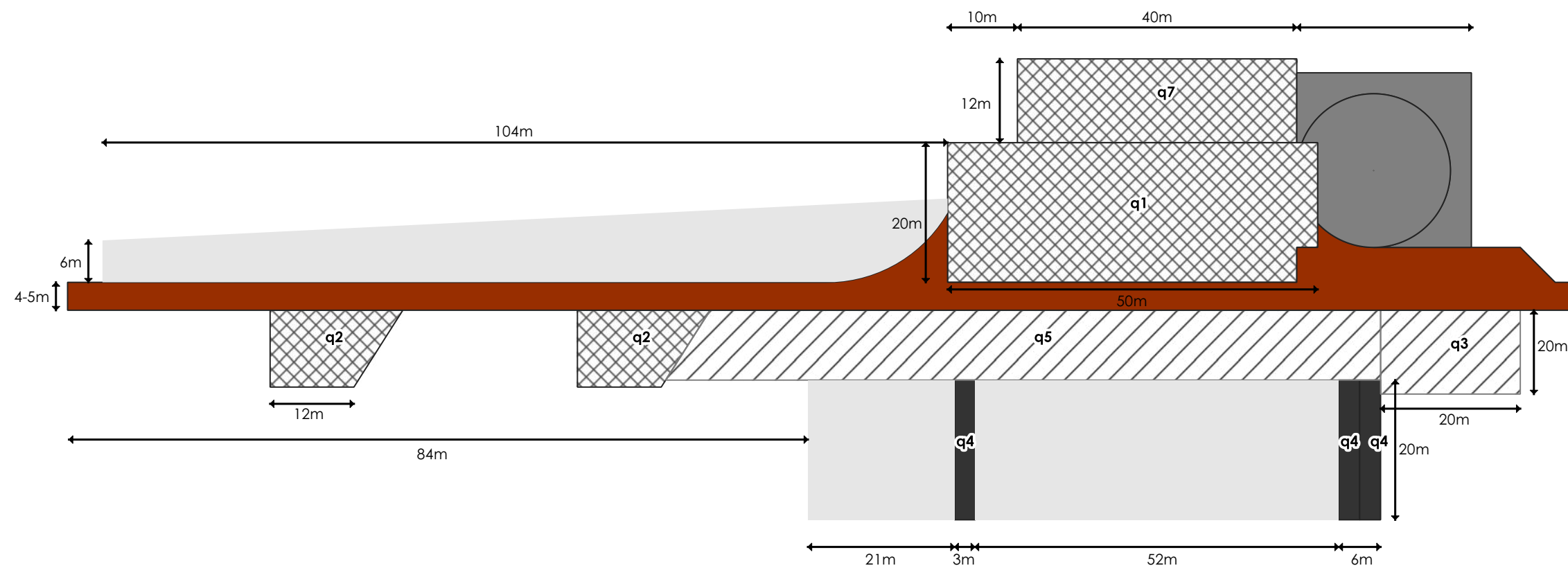
KEY:

- Foundation area
- Hardstanding
- Site road
- Storage areas for components & containers
- Trestle area for blades
- Cleared area prepared as working area

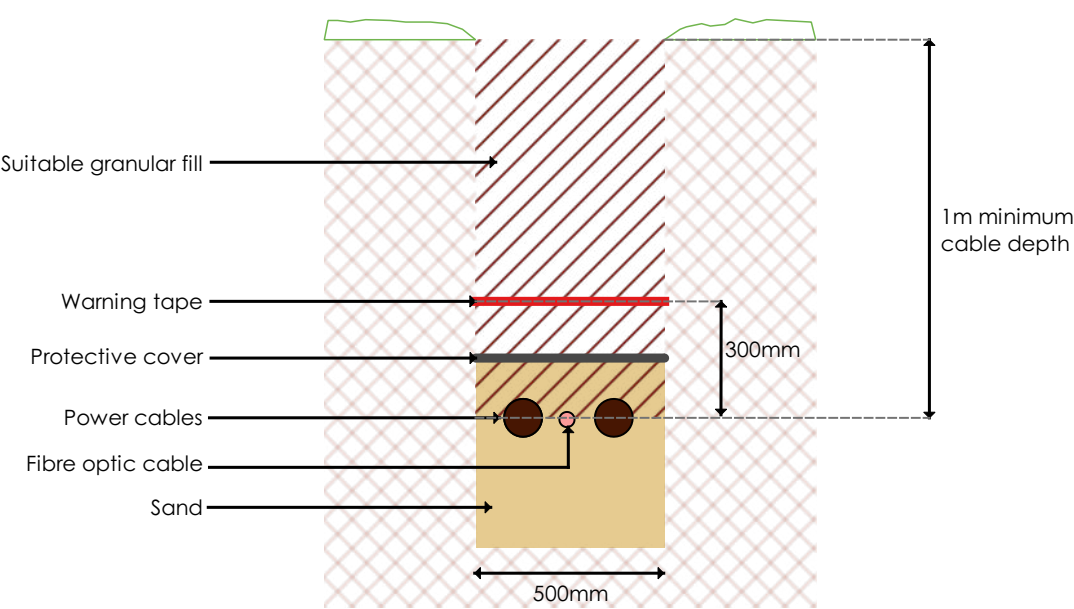
NOTES:

- q1: Hardstand for Main Crane
- q2: Hardstand for Assist Crane
- q3: Storage/Assembly Area
- q4: Trestle area for blades
- q5: Storage area for components
- q6: Hardstand for Boom Assembly
- q7: Hardstand for Superlift ballast

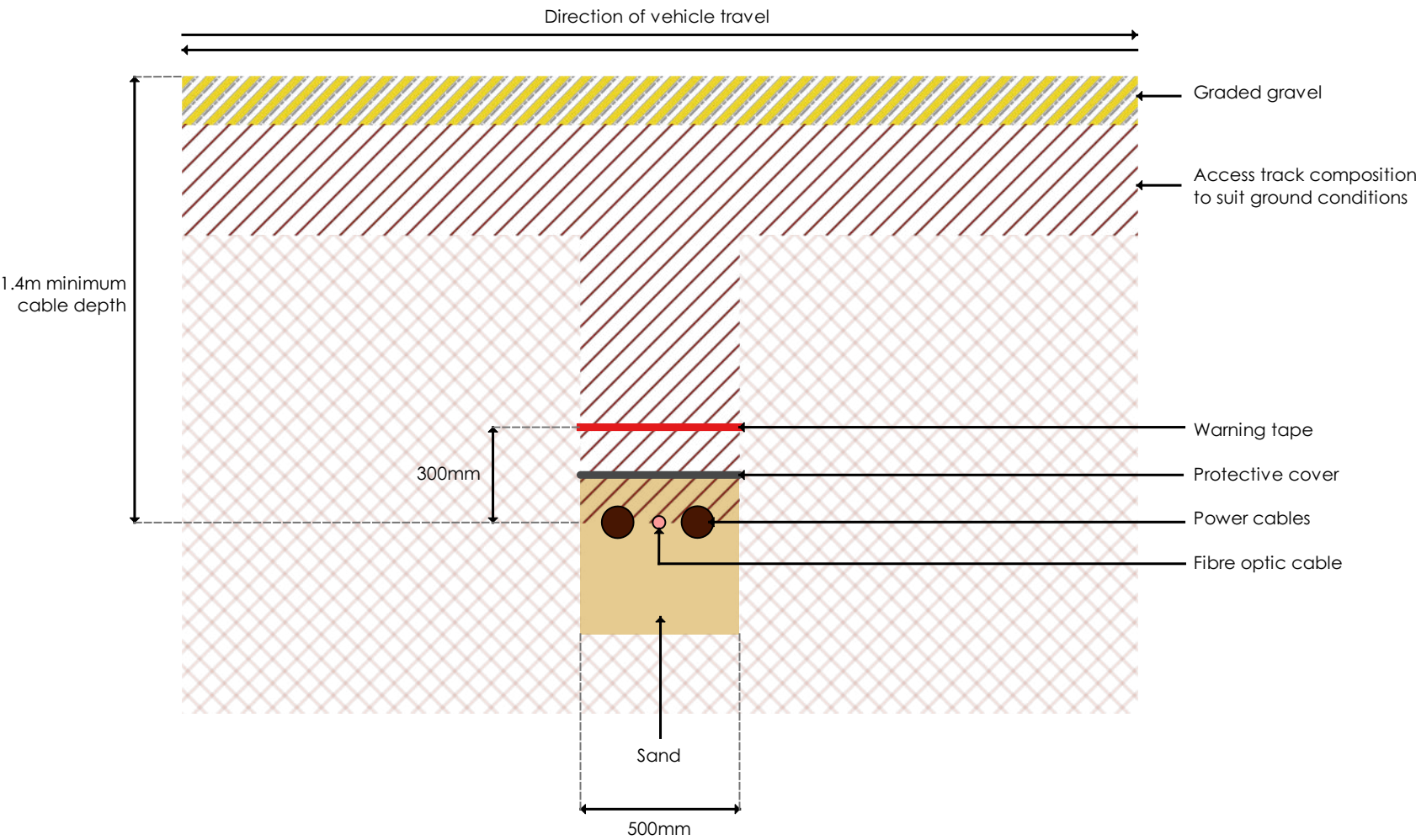
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TYPICAL PARALLEL TRENCH



TYPICAL PARALLEL TRENCH



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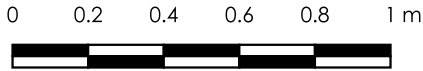
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Figure 3.8: Typical Trench Design





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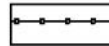
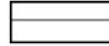
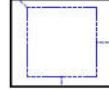
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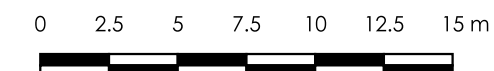
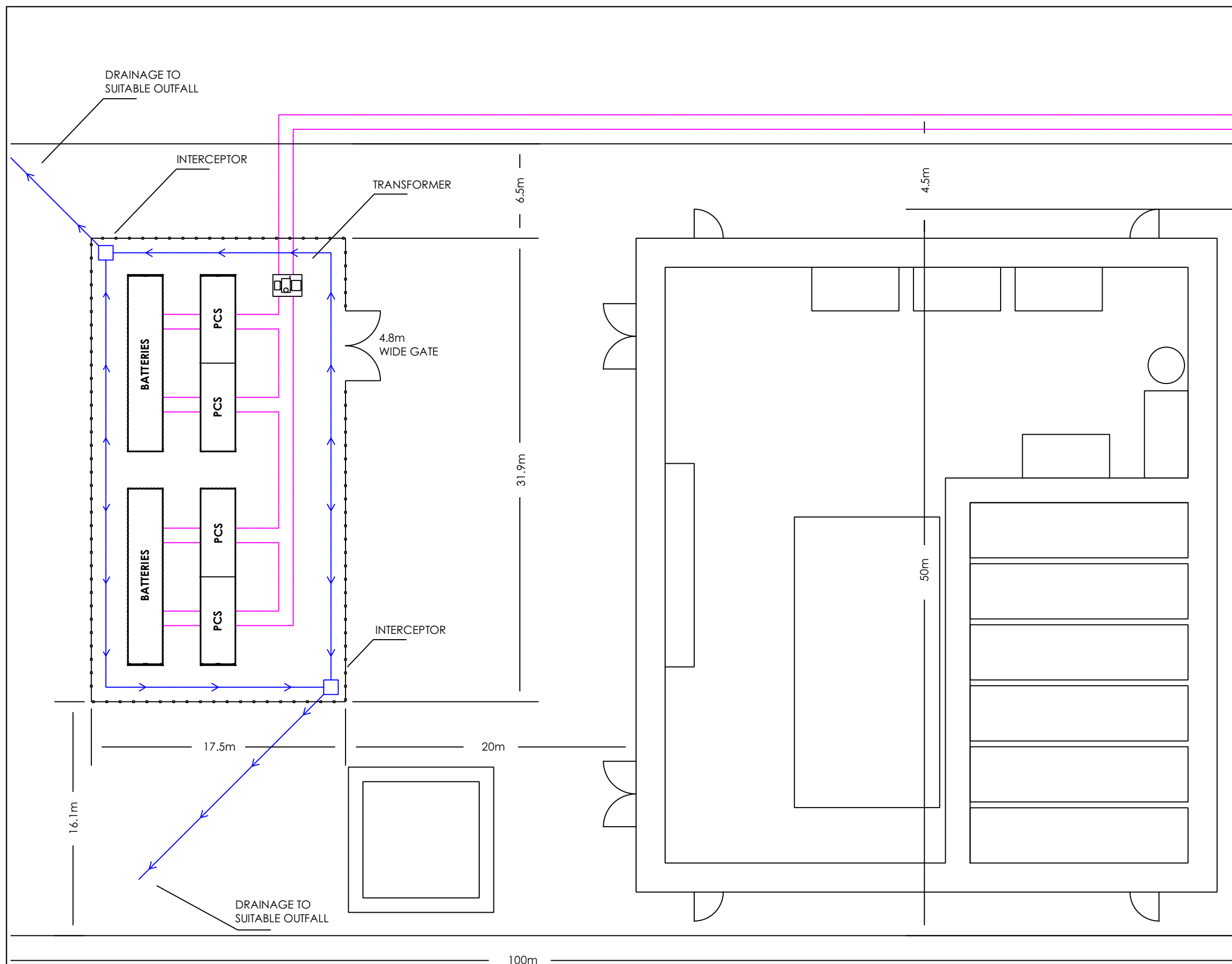
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Figure 3.9
Typical Energy Storage Compound Plan

KEY:

-  GALVANISED STEEL PALISADE FENCE 2.4m HIGH
-  CABLE TRENCH
-  WIND FARM TEMPORARY CONSTRUCTION COMPOUND
-  PERIMETER DRAINAGE
MIN. 100mm Ø, LAID AT 1:100 FALL
(ARROW SHOWS FALL DIRECTION)
-  PROPRIETARY INTERCEPTOR
-  BATTERY CONTAINERS
FOUNDATIONS TO INCORPORATE
INTEGRAL BUNDING

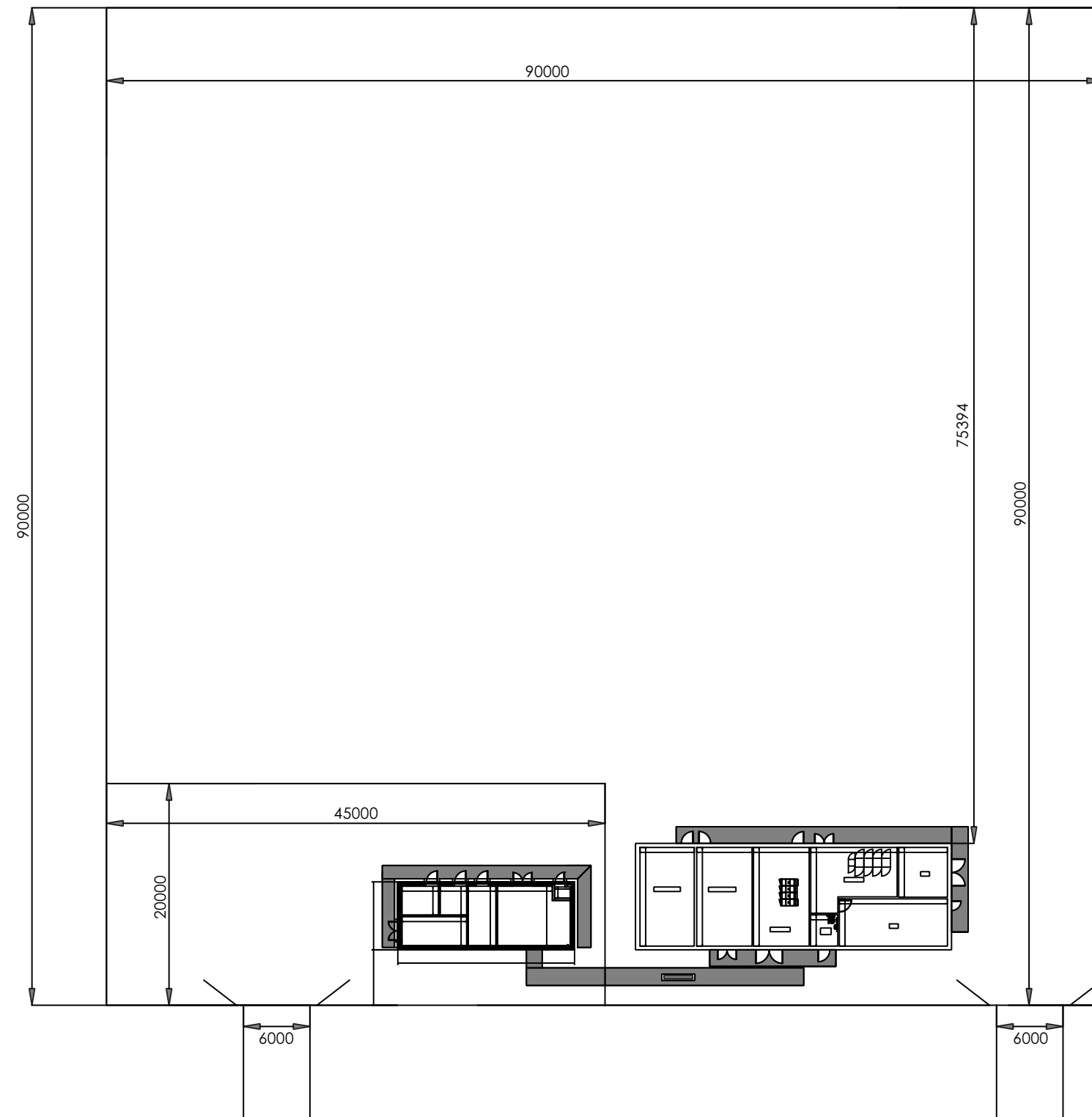




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Figure 3.10: Typical 132kV Substation & Compound



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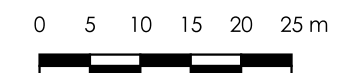
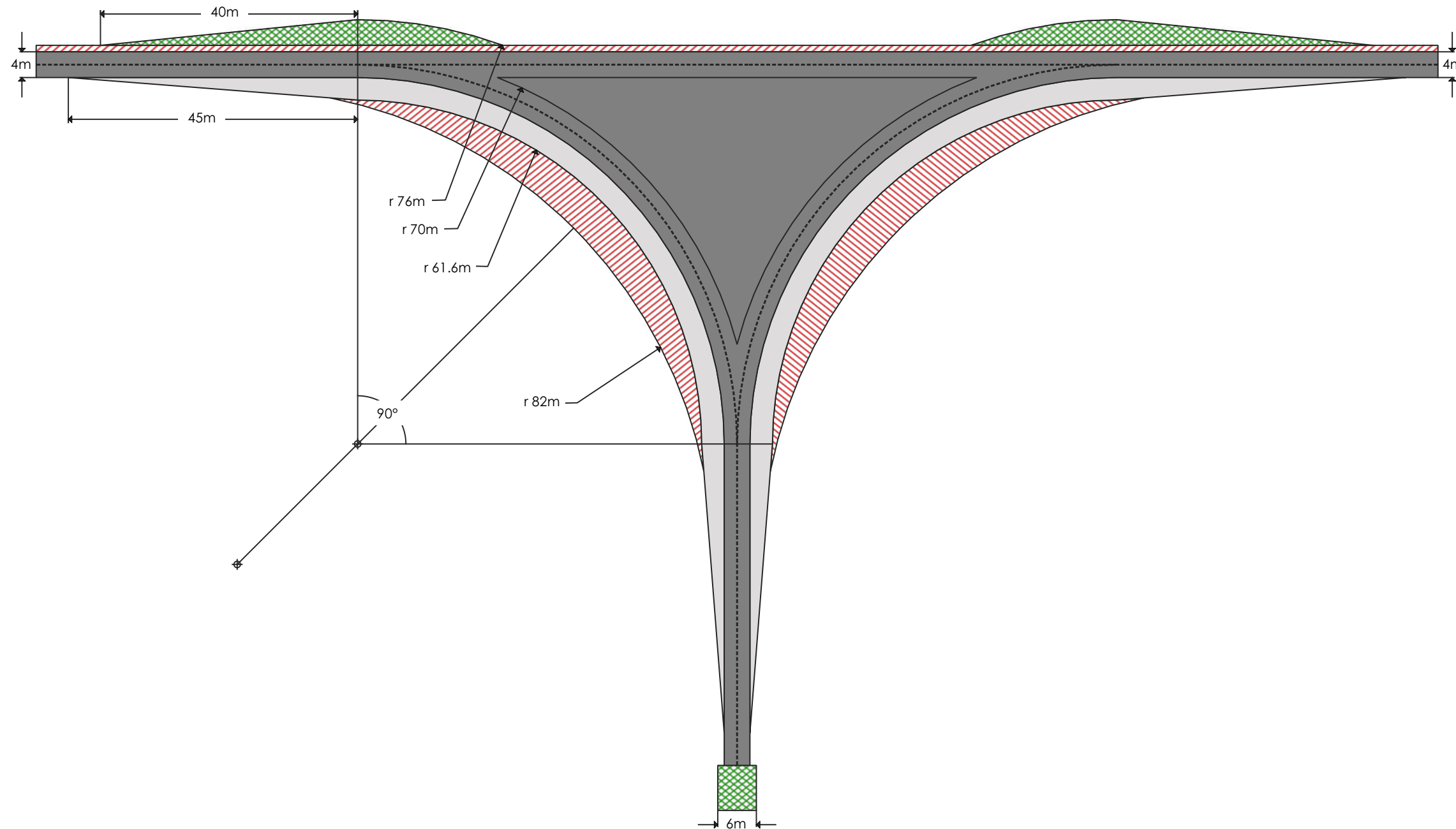
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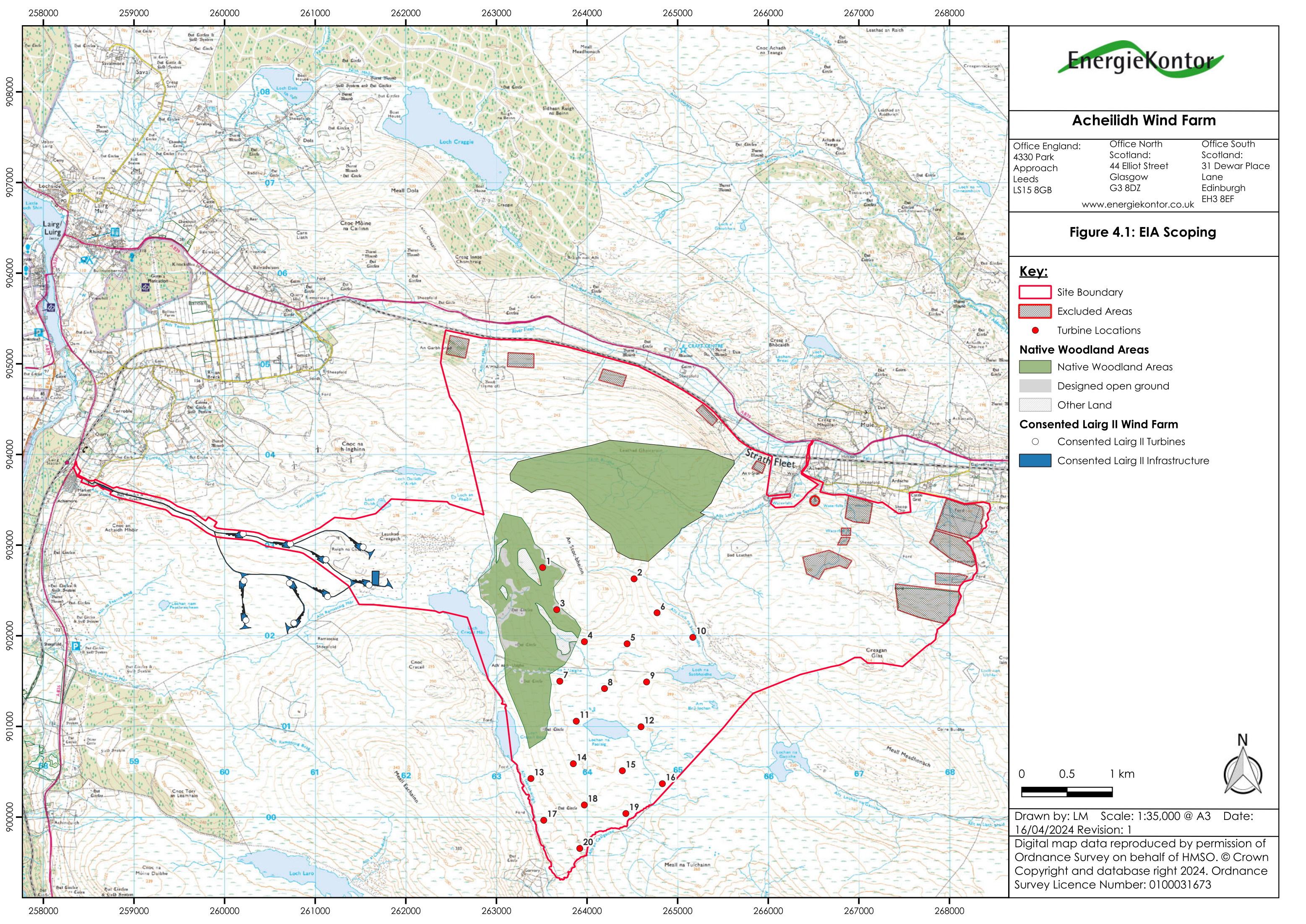
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Figure 3.11: Typical Turning Head

KEY:

-  Outer slewing area / rotor blade projection
1.00 m above ground level
-  Inner slewing area + clearance profile /
tower section projection 0.20 m
above
ground level
-  Roadway/roadway extension = ground level
-  Roadway/roadway extension = ground level





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Figure 4.1: EIA Scoping

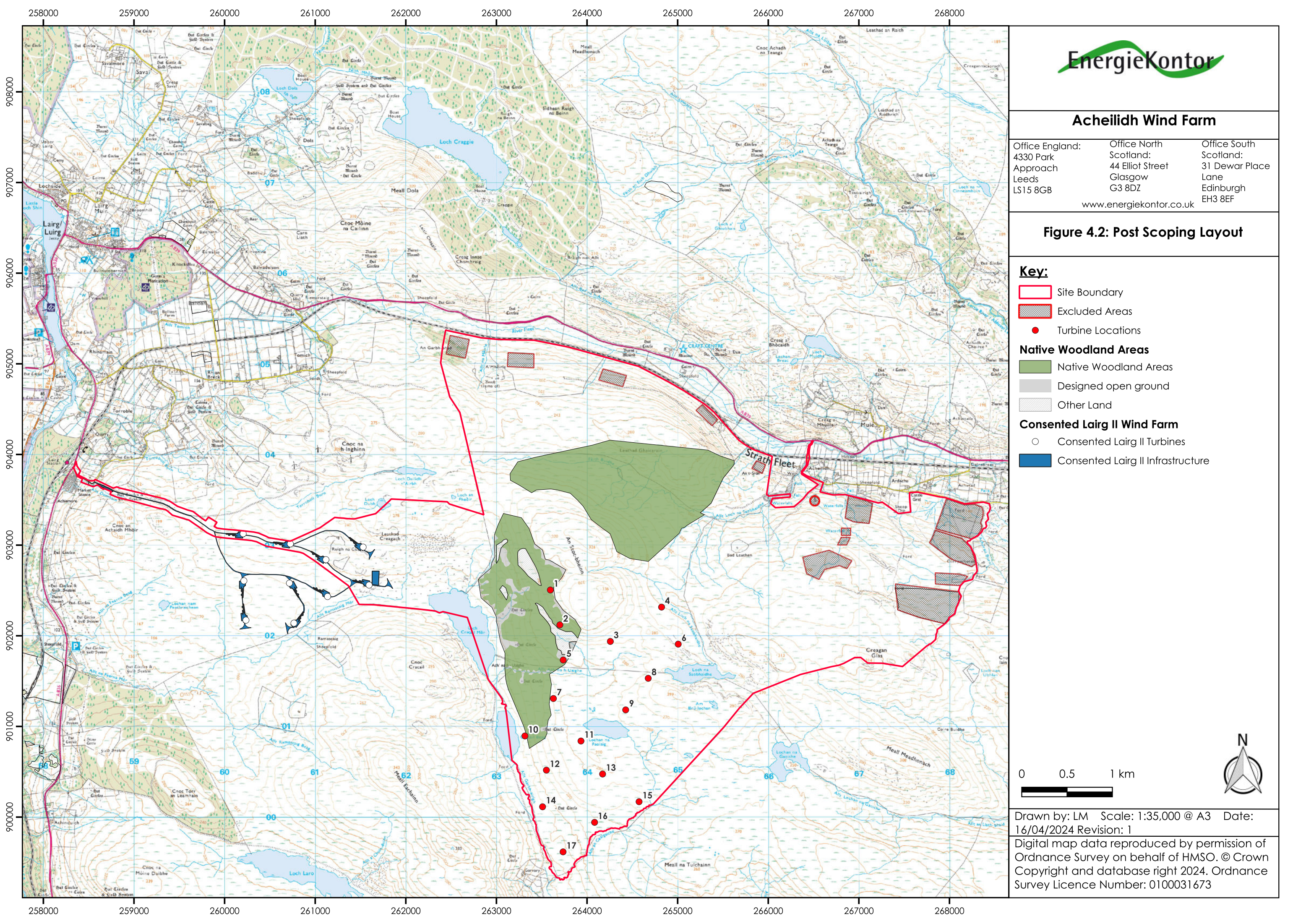
- Key:**
- Site Boundary
 - Excluded Areas
 - Turbine Locations
- Native Woodland Areas**
- Native Woodland Areas
 - Designed open ground
 - Other Land
- Consented Lairg II Wind Farm**
- Consented Lairg II Turbines
 - Consented Lairg II Infrastructure

0 0.5 1 km



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Figure 4.2: Post Scoping Layout

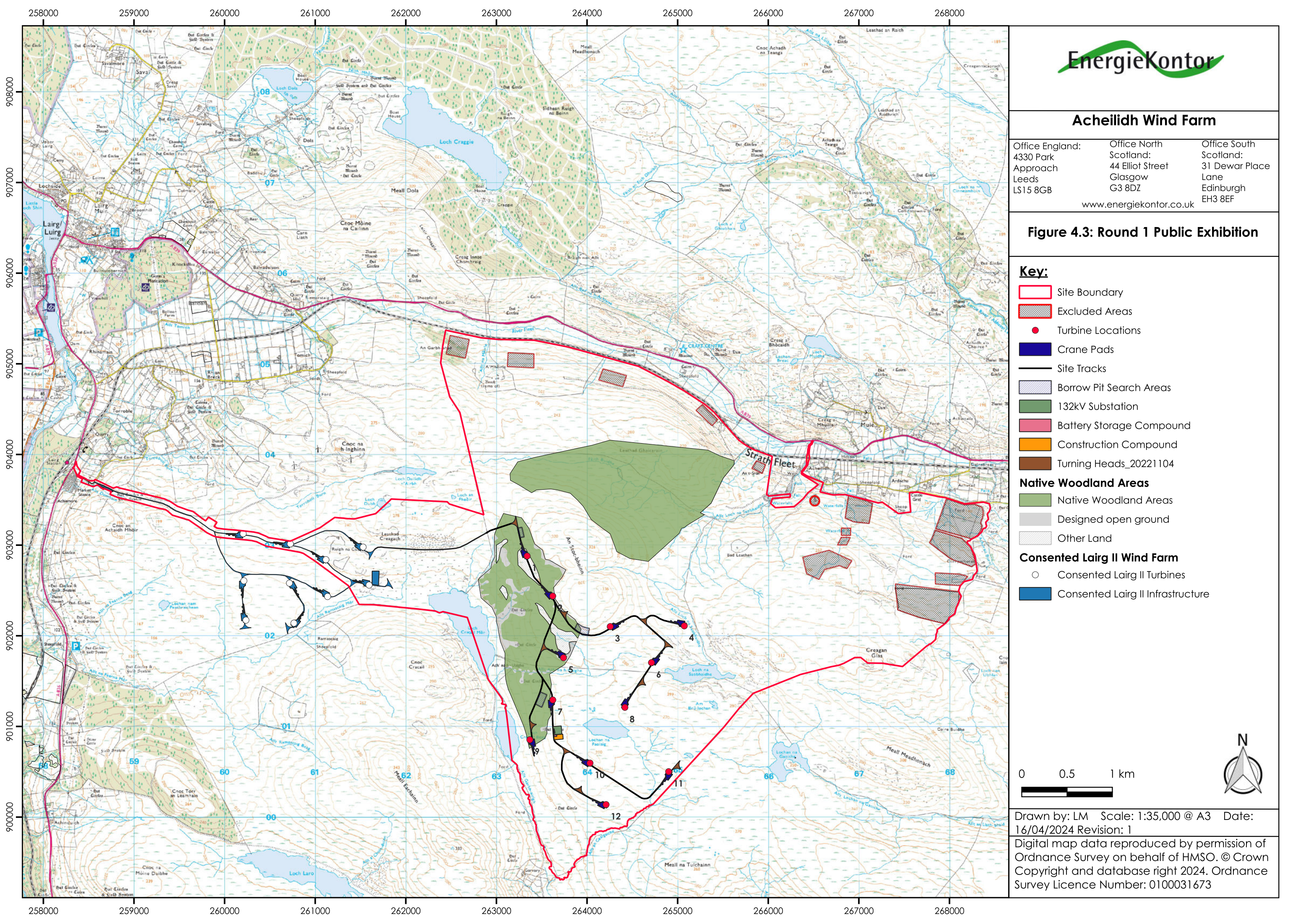
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 - Native Woodland Areas
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 - Consented Lairg II Infrastructure

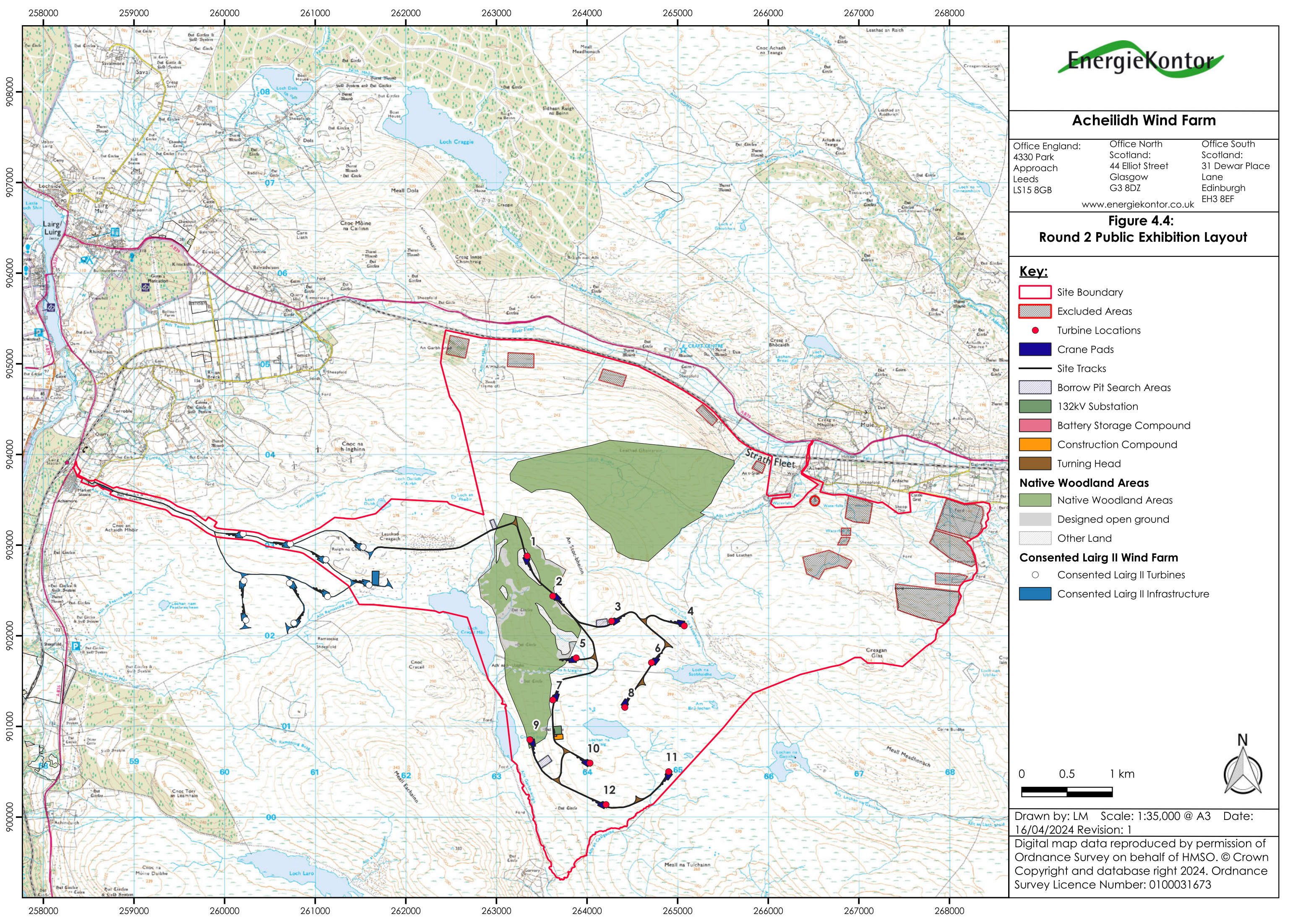
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Figure 4.4: Round 2 Public Exhibition Layout

Key:

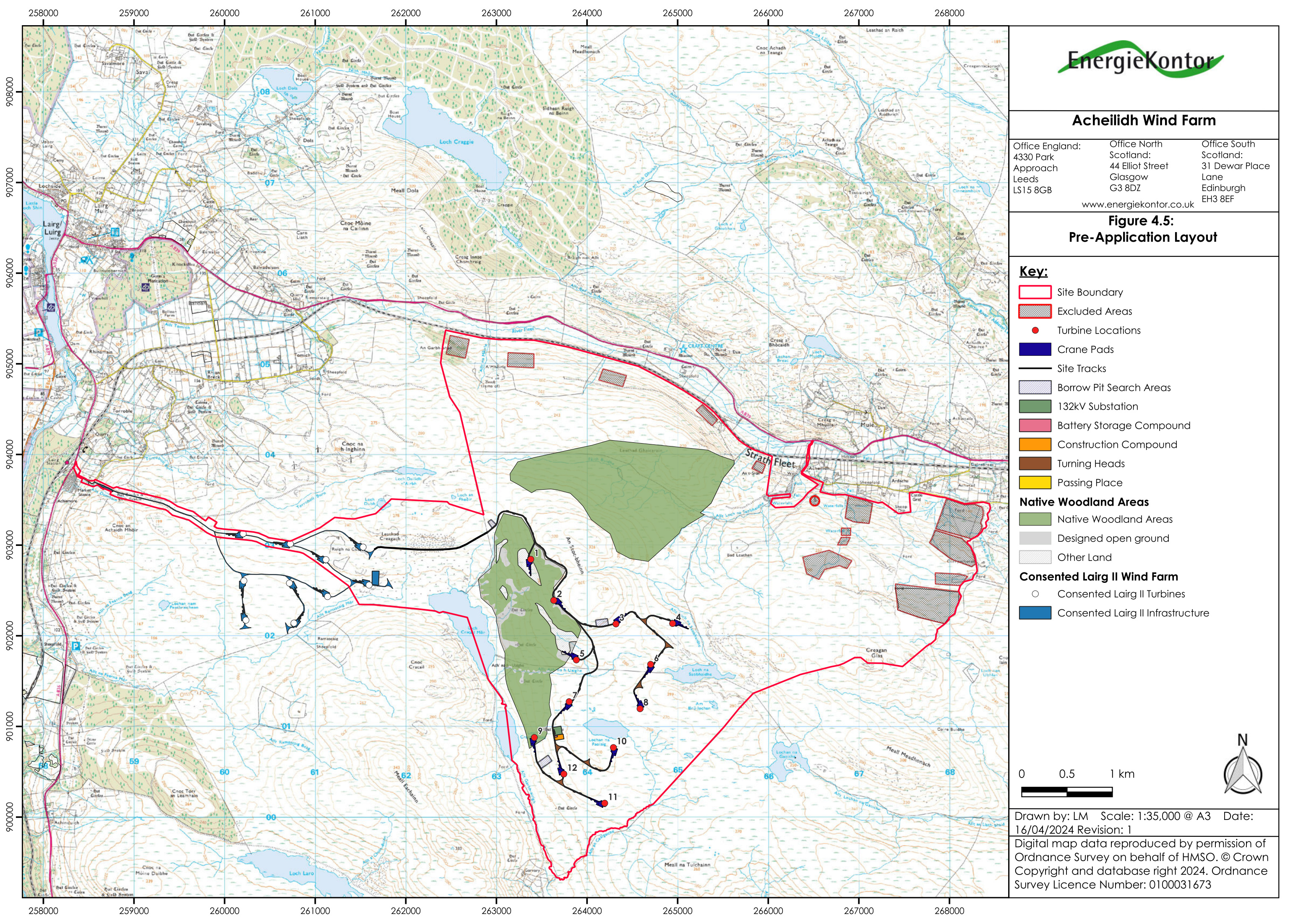
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-  Turbine Locations
-  Crane Pads
-  Site Tracks
-  Borrow Pit Search Areas
-  132kV Substation
-  Battery Storage Compound
-  Construction Compound
-  Turning Head
- Native Woodland Areas**
-  Native Woodland Areas
-  Designed open ground
-  Other Land
- Consented Lairg II Wind Farm**
-  Consented Lairg II Turbines
-  Consented Lairg II Infrastructure

0 0.5 1 km



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**Figure 4.5:
Pre-Application Layout**

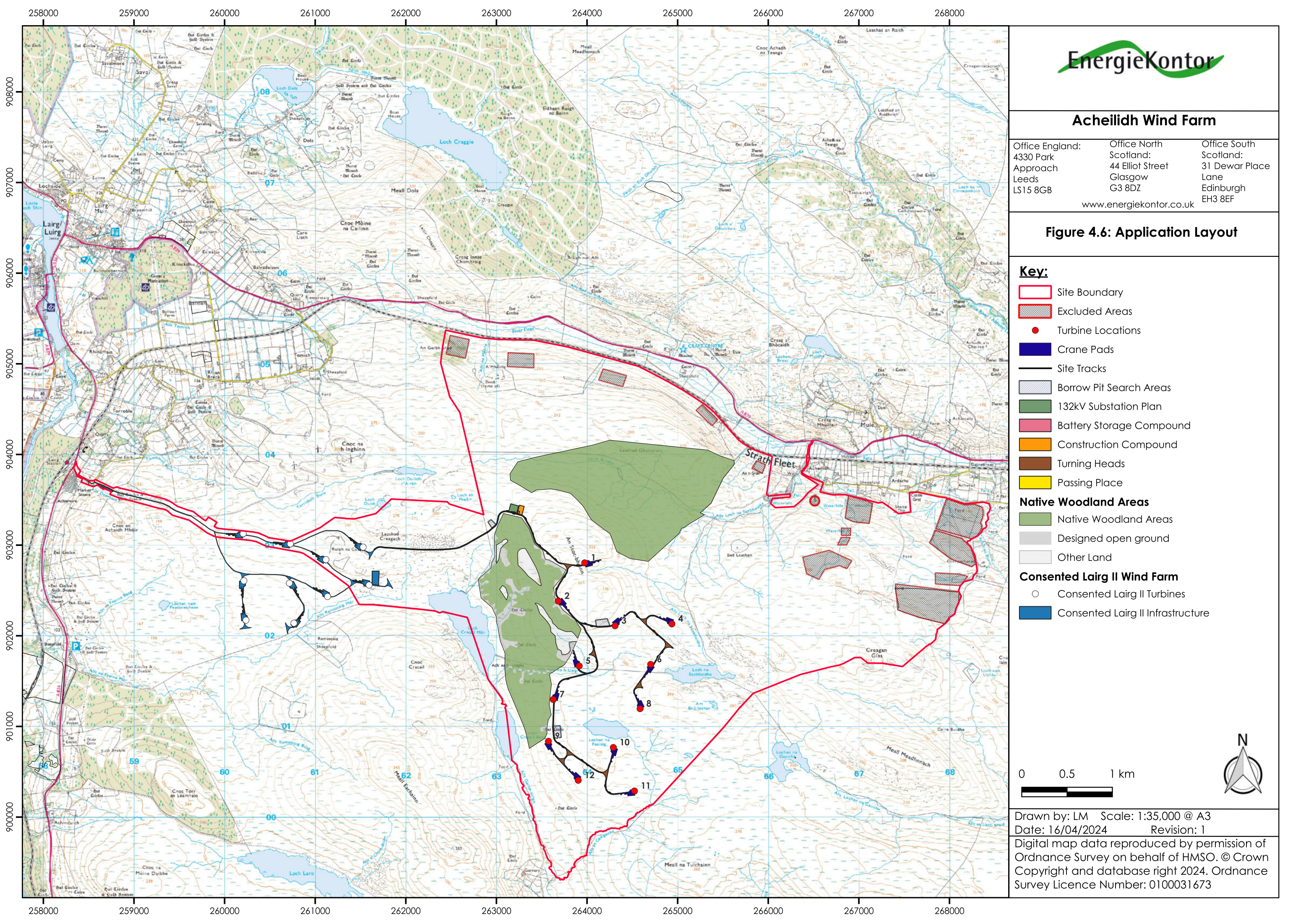
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0 0.5 1 km



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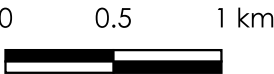
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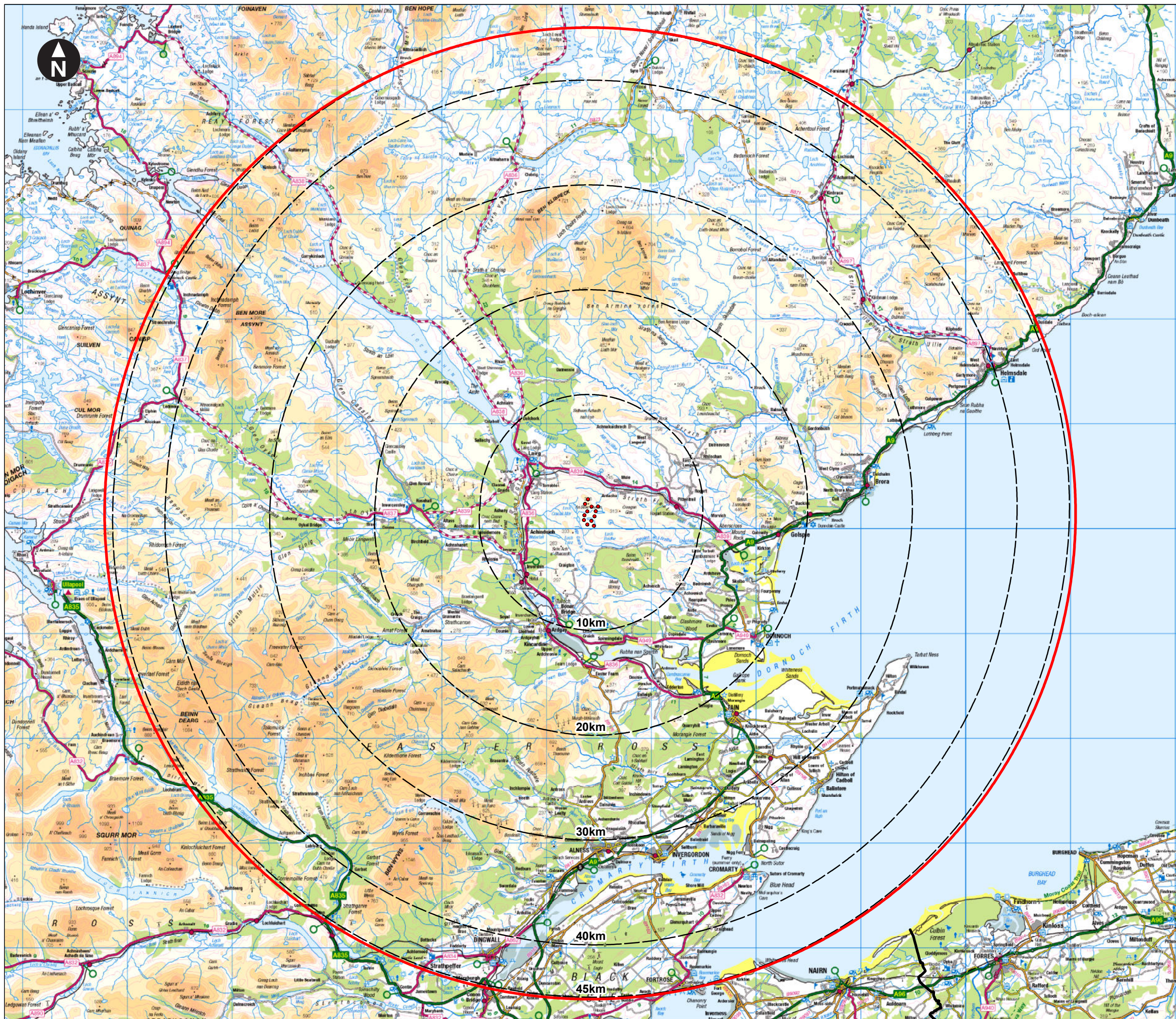
Figure 4.6: Application Layout

- Key:**
- Site Boundary
 - Excluded Areas
 - Turbine Locations
 - Crane Pads
 - Site Tracks
 - Borrow Pit Search Areas
 - 132kV Substation Plan
 - Battery Storage Compound
 - Construction Compound
 - Turning Heads
 - Passing Place
- Native Woodland Areas**
- Native Woodland Areas
 - Designed open ground
 - Other Land
- Consented Lairg II Wind Farm**
- Consented Lairg II Turbines
 - Consented Lairg II Infrastructure



Drawn by: LM Scale: 1:35,000 @ A3
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C:\Users\UKCGW775\OneDrive - WSP\O365\ArcGIS\Laing 3ArcGIS\MXD\2024-04 LVIA\Figure 6.1 LVIA 808755-WSP-FG-SA-00097_R1.mxd Originator: wisc03



Key

- Proposed turbine locations
- Landscape and Visual Study Area

Note: The study area is based on a 46,355m radius circle that allows a minimum of 45km distance from each of the proposed turbine locations

- Local authority boundaries
- Lines indicating the distance from the proposed turbines

0 2 4 6 8 10 12 14 16 18 20 km

Scale at A3: 1:350,000

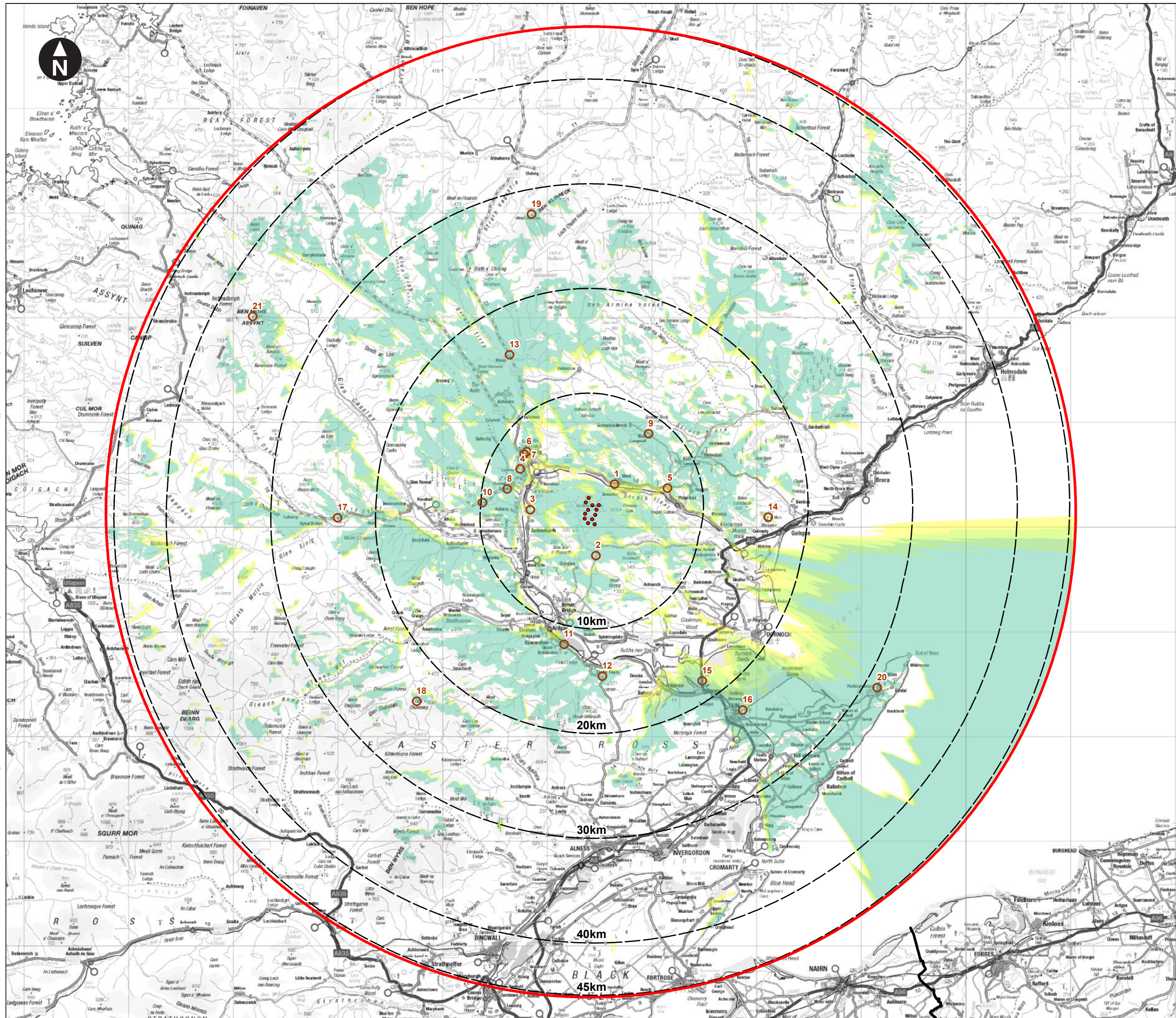
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Client

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Acheilidh Wind Farm
EIA Report

Figure 6.1
Landscape and Visual Study Area

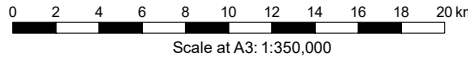


- Key
- Proposed turbine locations
 - Landscape and Visual Study Area
 - Local authority boundaries
 - Lines indicating the distance from the proposed turbines
 - 1-3 turbines may be theoretically visible
 - 4-6 turbines may be theoretically visible
 - 7-9 turbines may be theoretically visible
 - 10-12 turbines may be theoretically visible
 - LVIA viewpoint locations

- | | |
|---|--------------------------------|
| 1) A839 near Acheilidh | 11) A836 Wester Fearn |
| 2) Lochbuie Road | 12) B9176 Struie Layby |
| 3) Bridge near A836 between Laing and Invershin | 13) A836 Rhian Bridge |
| 4) The Ord, Laing | 14) Ben Bhraggie |
| 5) A839 near Rovie Lodge | 15) A9 Dornoch Bridge / NC 500 |
| 6) Laing Cemetery | 16) Tain Waterfront |
| 7) A836 Laing between Pier and Power Station | 17) A837 Strath Oykel |
| 8) Gruids | 18) Cam Chuinneag |
| 9) West Langwell | 19) Ben Klibreck |
| 10) A839 Rosehall – Laing | 20) Portmahomack |
| | 21) Ben More Assynt |

Notes: This drawing is based on a computer generated Zone of Theoretical Visibility (ZTV). The areas shown indicate the maximum theoretical visibility of the proposed turbines using OS Terrain 50 data only and do not take account of any screening from vegetation or built-form. The ZTV also includes an adjustment that allows for the Curvature and Light Refraction of the Earth.

This figure has been based on the following parameters:
Turbine layout file: LACHEILIDH004.WFL
Hub height: 122.5m / 152.5m
Rotor diameter: 155m
Height to blade tip: 200m / 230m



Scale at A3: 1:350,000

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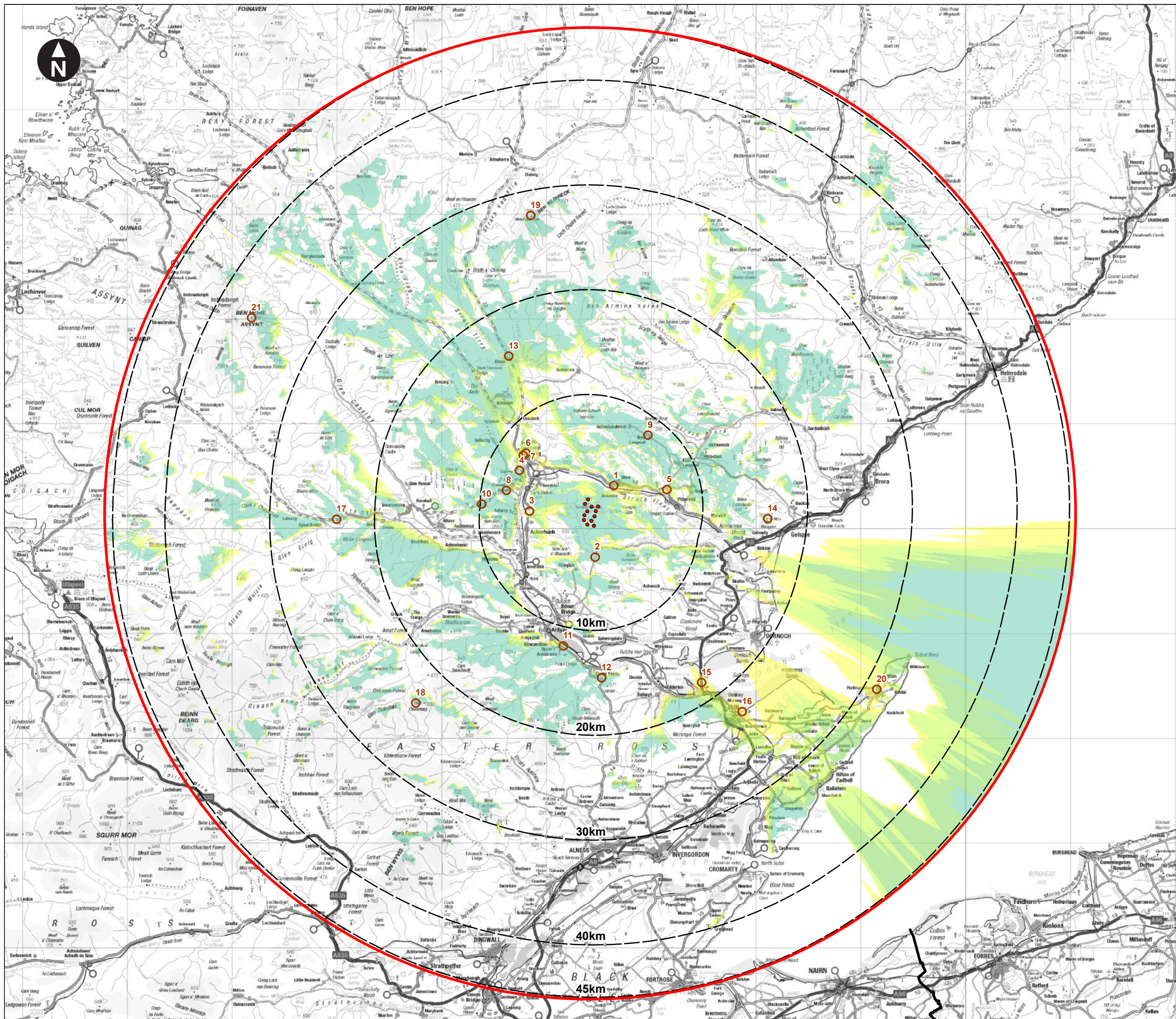


Acheilidh Wind Farm
EIA Report

Figure 6.2
Zone of Theoretical Visibility (ZTV) to
Blade Tip with Viewpoint Locations

April 2024





Key

- Proposed turbine locations
- Landscape and Visual Study Area
- Local authority boundaries
- Lines indicating the distance from the proposed turbines
- 1-3 turbines may be theoretically visible
- 4-6 turbines may be theoretically visible
- 7-9 turbines may be theoretically visible
- 10-12 turbines may be theoretically visible
- LVIA viewpoint locations

- | | |
|---|--------------------------------|
| 1) A839 near Acheilidh | 11) A836 Wester Fearn |
| 2) Lochbuie Road | 12) B9176 Struie Layby |
| 3) Bridge near A836 between Laing and Invershin | 13) A836 Rhian Bridge |
| 4) The Ord, Laing | 14) Ben Bhraggie |
| 5) A839 near Rovie Lodge | 15) A9 Dornoch Bridge / NC 500 |
| 6) Laing Cemetery | 16) Tain Waterfront |
| 7) A836 Laing between Pier and Power Station | 17) A837 Strath Oykel |
| 8) Gruids | 18) Cam Chuinneag |
| 9) West Langwell | 19) Ben Klibreck |
| 10) A839 Rosehall – Laing | 20) Portmahomack |
| | 21) Ben More Assynt |

Notes: This drawing is based on a computer generated Zone of Theoretical Visibility (ZTV). The areas shown indicate the maximum theoretical visibility of the proposed turbines using OS Terrain 50 data only and do not take account of any screening from vegetation or built-form. The ZTV also includes an adjustment that allows for the Curvature and Light Refraction of the Earth.

This figure has been based on the following parameters:
Turbine layout file: LACHEILIDH004.WFL
Hub height: 122.5m / 152.5m
Rotor diameter: 155m
Height to blade tip: 200m / 230m

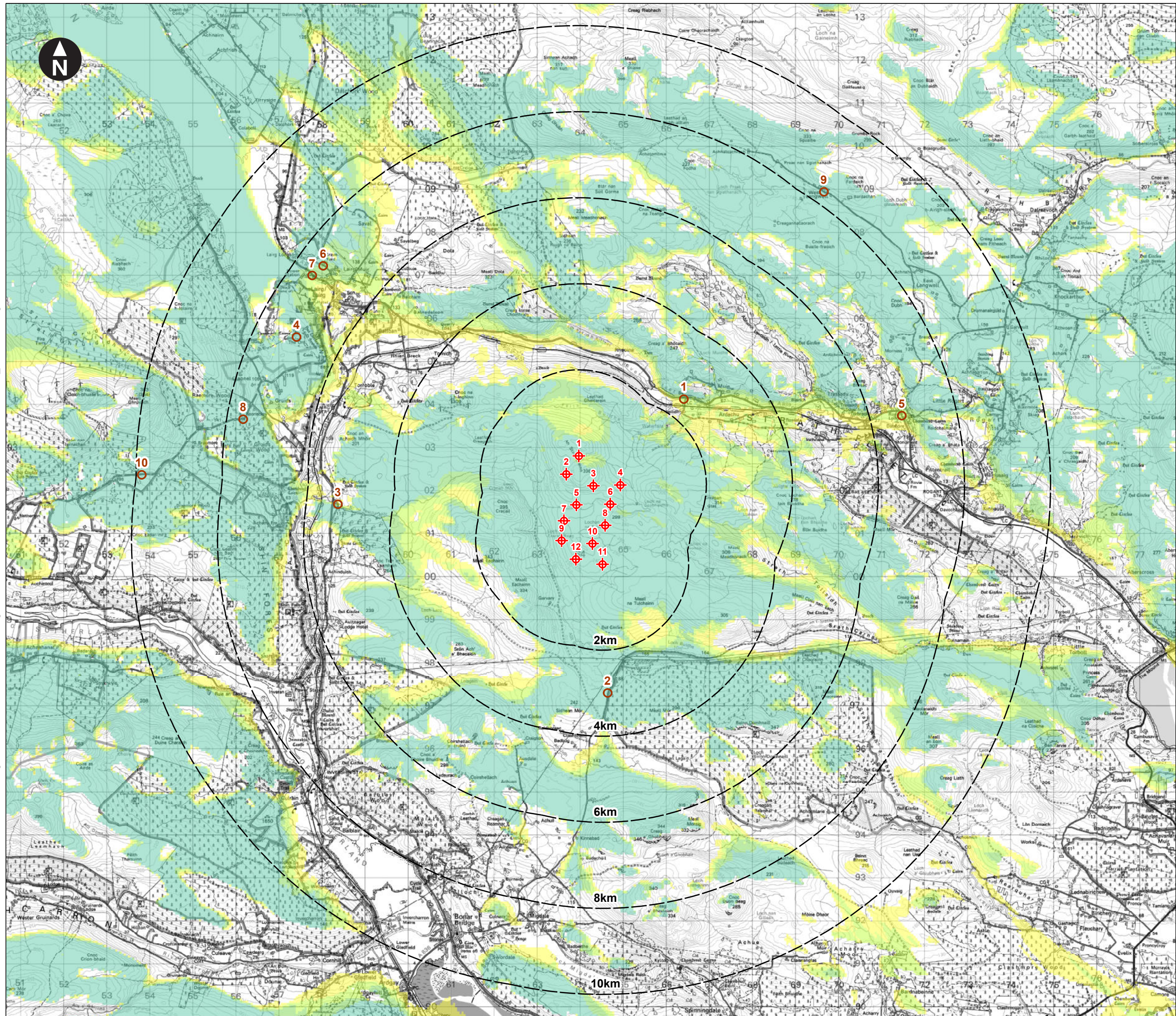
0 2 4 6 8 10 12 14 16 18 20 km
Scale at A3: 1:350,000

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Acheilidh Wind Farm
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Figure 6.3
Zone of Theoretical Visibility (ZTV) to
Hub Height with Viewpoint Locations



Key

 Proposed turbine locations

 Lines indicating the distance from the proposed turbines

 1-3 turbines may be theoretically visible

 4-6 turbines may be theoretically visible

 7-9 turbines may be theoretically visible

 10-12 turbines may be theoretically visible

 LVIA viewpoint locations

1) A839 near Acheilidh

2) Lochbuie Road

3) Bridge near A836 between Laig and Invershin

4) The Ord, Laig

5) A839 near Rovie Lodge

6) Laig Cemetery

7) A836 Laig between Pier and Power Station

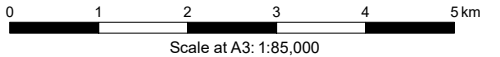
8) Gruids

9) West Langwell

10) A839 Rosehall – Laig

Notes: This drawing is based on a computer generated Zone of Theoretical Visibility (ZTV). The areas shown indicate the maximum theoretical visibility of the proposed turbines using OS Terrain 50 data only and do not take account of any screening from vegetation or built-form. The ZTV also includes an adjustment that allows for the Curvature and Light Refraction of the Earth.

This figure has been based on the following parameters:
Turbine layout file: LACHEILIDH004.WFL
Hub height: 122.5m / 152.5m
Rotor diameter: 155m
Height to blade tip: 200m / 230m



Scale at A3: 1:85,000

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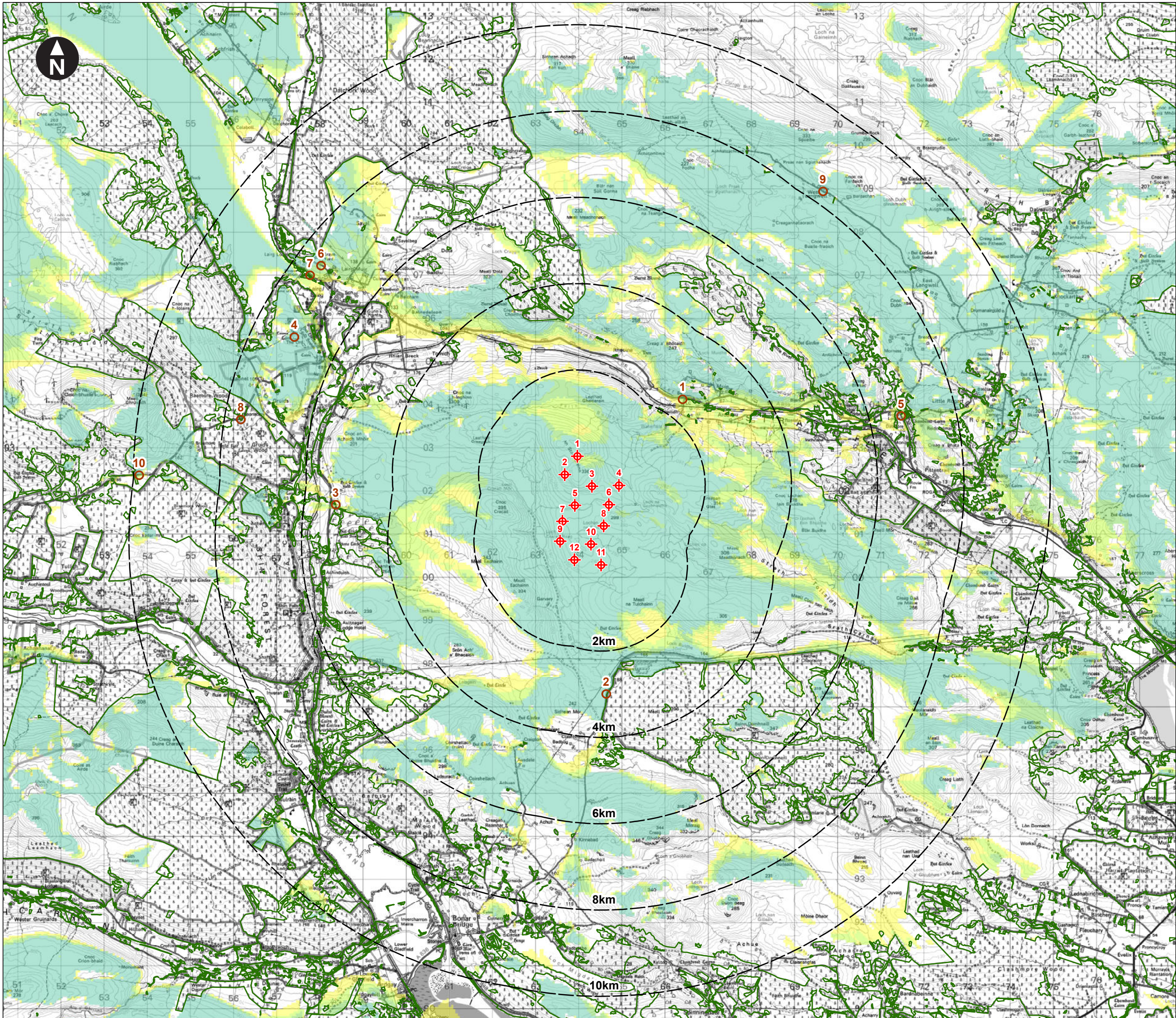


Acheilidh Wind Farm
EIA Report

Figure 6.4a
Detailed Zone of Theoretical Visibility (ZTV)
to Blade Tip with Viewpoint Locations

April 2024





Key

- Proposed turbine locations
- Lines indicating the distance from the proposed turbines
- Forestry

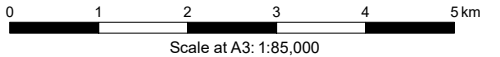
Source: Scottish Forestry Open Data

- 1-3 turbines may be theoretically visible
- 4-6 turbines may be theoretically visible
- 7-9 turbines may be theoretically visible
- 10-12 turbines may be theoretically visible
- LVIA viewpoint locations

1) A839 near Acheilidh
2) Lochbuie Road
3) Bridge near A836 between Laing and Invershin
4) The Ord, Laing
5) A839 near Rovie Lodge
6) Laing Cemetery
7) A836 Laing between Pier and Power Station
8) Gruids
9) West Langwell
10) A839 Rosehall – Laing

Notes: This drawing is based on a computer generated Zone of Theoretical Visibility (ZTV). The areas shown indicate the maximum theoretical visibility of the proposed turbines using OS Terrain 50 data. Whilst the ZTV does not take account of all vegetation and built form, it has included vector zones for the main blocks of coniferous forestry and woodland (at an estimated height of 15m) as exclusion zones. The ZTV also includes an adjustment that allows for the Curvature and Light Refraction of the Earth.

This figure has been based on the following parameters:
Turbine layout file: LACHEILDH004.WFL
Hub height: 122.5m / 152.5m
Rotor diameter: 155m
Height to blade tip: 200m / 230m



Scale at A3: 1:85,000

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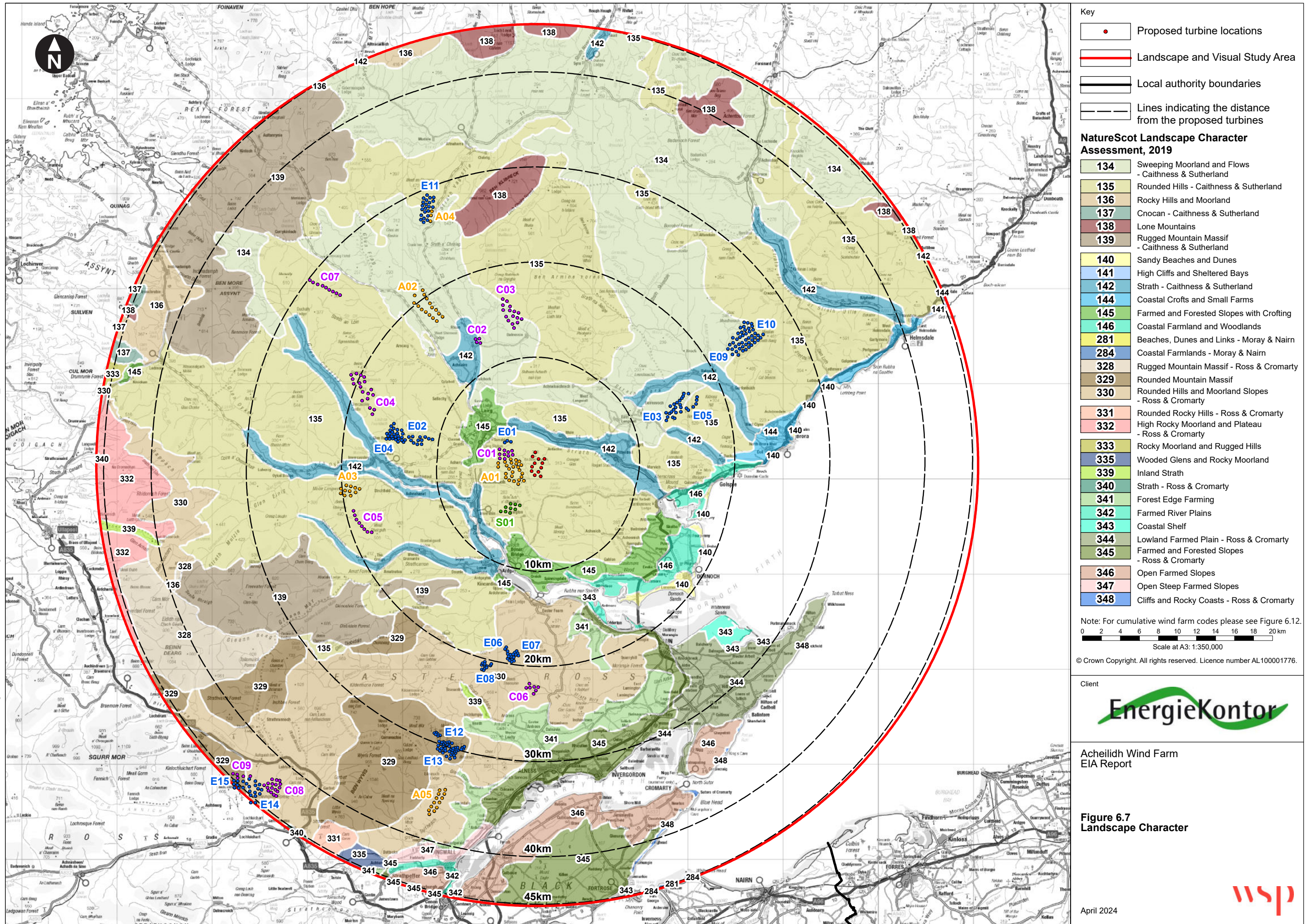


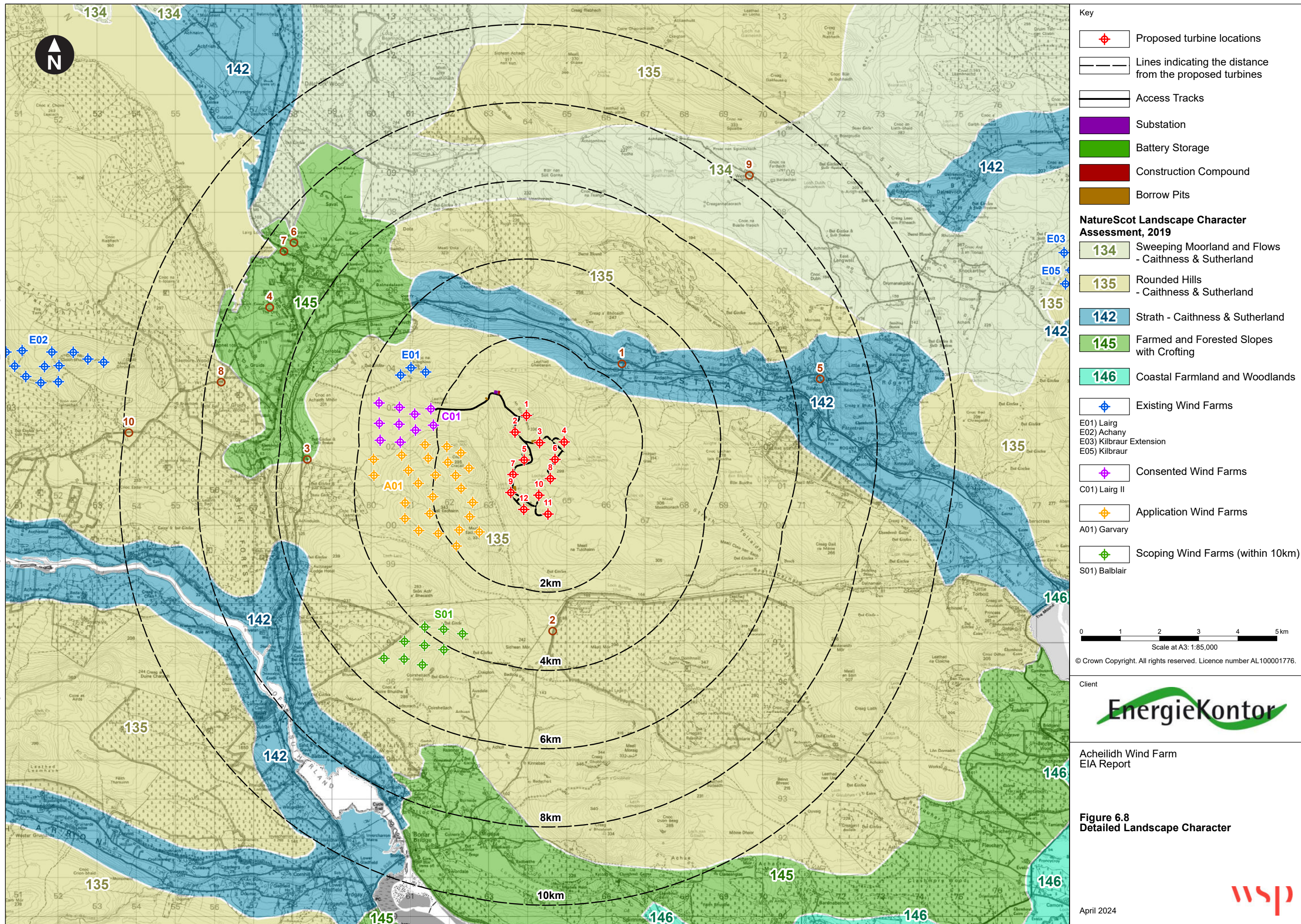
Acheilidh Wind Farm
EIA Report

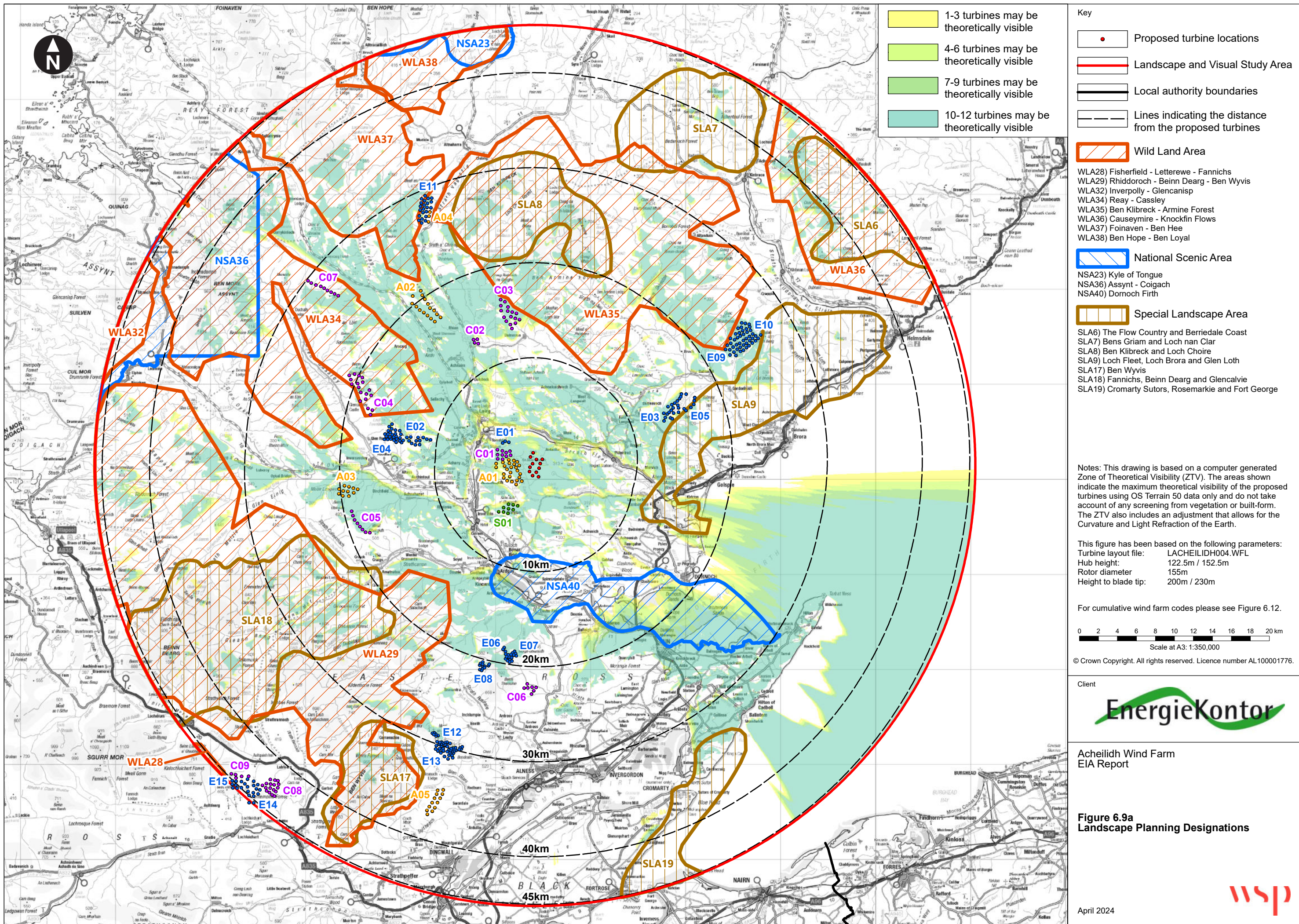
Figure 6.4b
Detailed Zone of Theoretical Visibility (ZTV)
to Blade Tip with Forestry Excluded

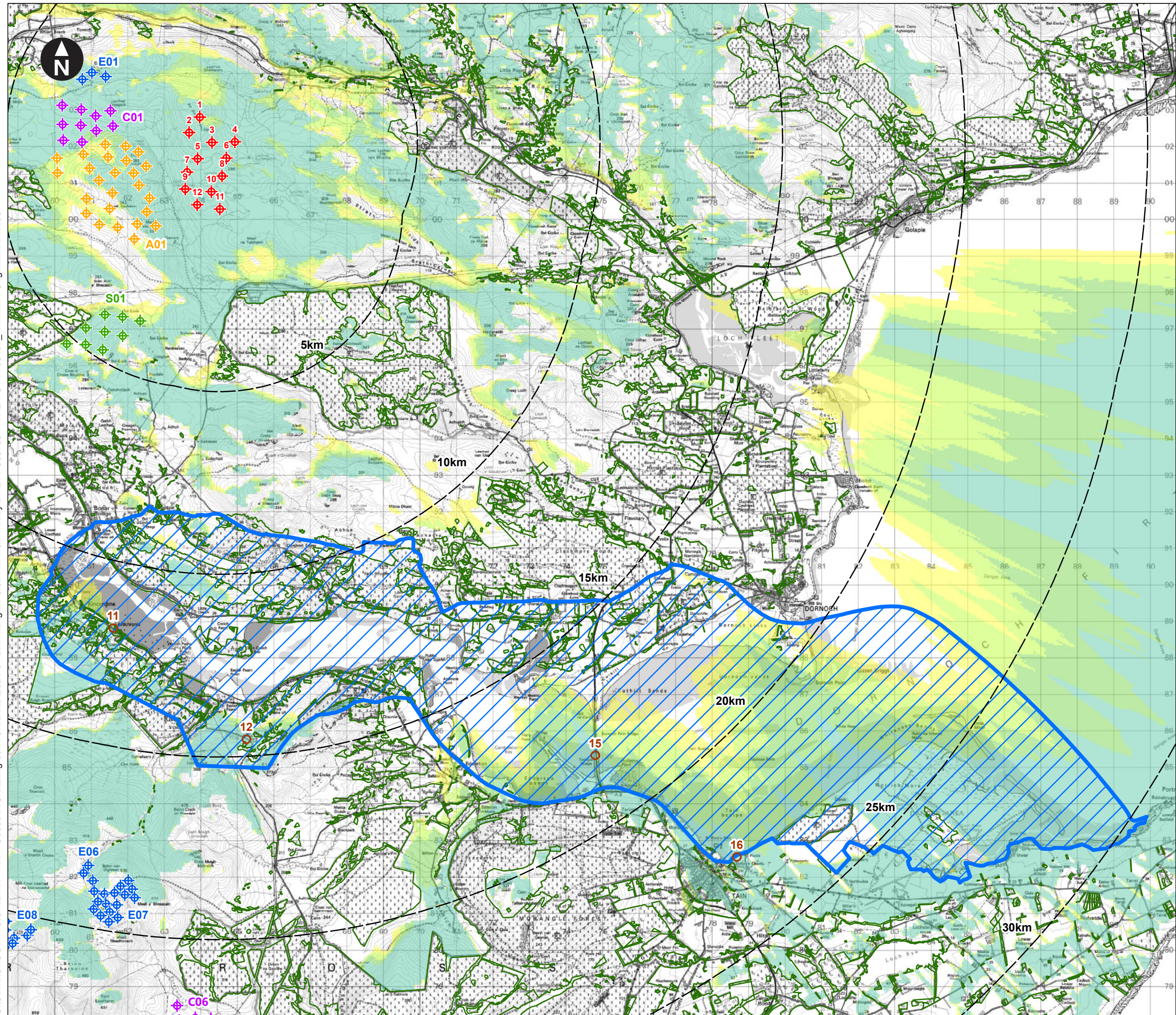
April 2024







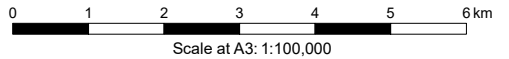




- Key
- Proposed turbine locations
 - Lines indicating the distance from the proposed turbines
 - Forestry
 - Source: Scottish Forestry Open Data
 - National Scenic Area 40: Dornoch Firth
 - LVIA viewpoint locations within NSA
 - 11) A836 Wester Fearn
 - 12) B9176 Struie Layby
 - 15) A9 Dornoch Bridge / NC 500
 - 16) Tain Waterfront
 - 1-3 turbines may be theoretically visible
 - 4-6 turbines may be theoretically visible
 - 7-9 turbines may be theoretically visible
 - 10-12 turbines may be theoretically visible
 - Existing Wind Farms
 - E01) Lairg
 - E06) Beinn nan Oighrean
 - E07) Beinn Tharsuinn
 - E08) Coire na Cloiche
 - Consented Wind Farms
 - C01) Lairg II
 - C06) Strathroary
 - Application Wind Farms
 - A01) Garvary
 - Scoping Wind Farms (within 10km)
 - S01) Balblair

Notes: This drawing is based on a computer generated Zone of Theoretical Visibility (ZTV). The areas shown indicate the maximum theoretical visibility of the proposed turbines using OS Terrain 50 data. Whilst the ZTV does not take account of all vegetation and built form, it has included vector zones for the main blocks of coniferous forestry and woodland (at an estimated height of 15m) as exclusion zones. The ZTV also includes an adjustment that allows for the Curvature and Light Refraction of the Earth.

This figure has been based on the following parameters:
Turbine layout file: LACHEILDH004.WFL
Hub height: 122.5m / 152.5m
Rotor diameter: 155m
Height to blade tip: 200m / 230m

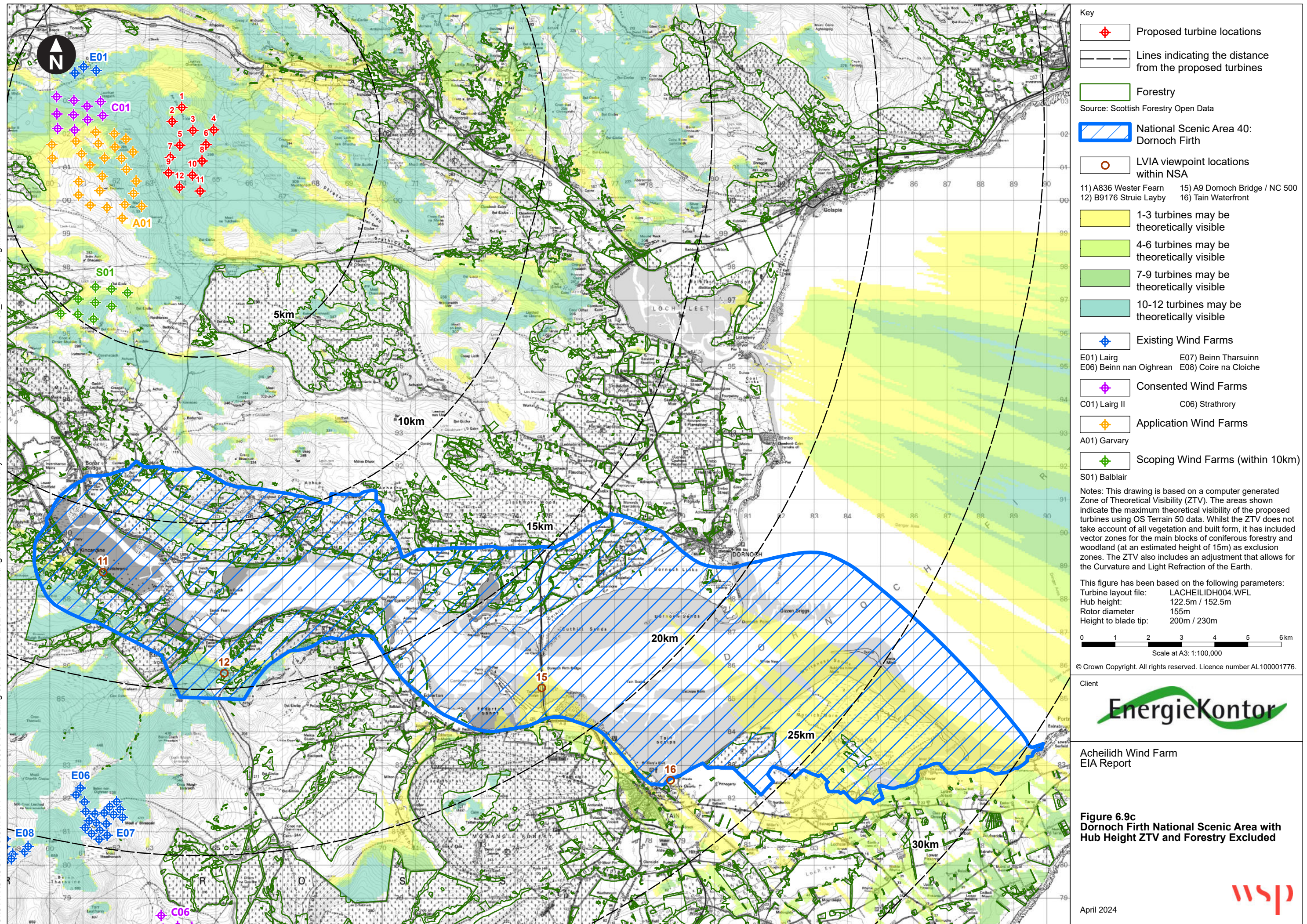


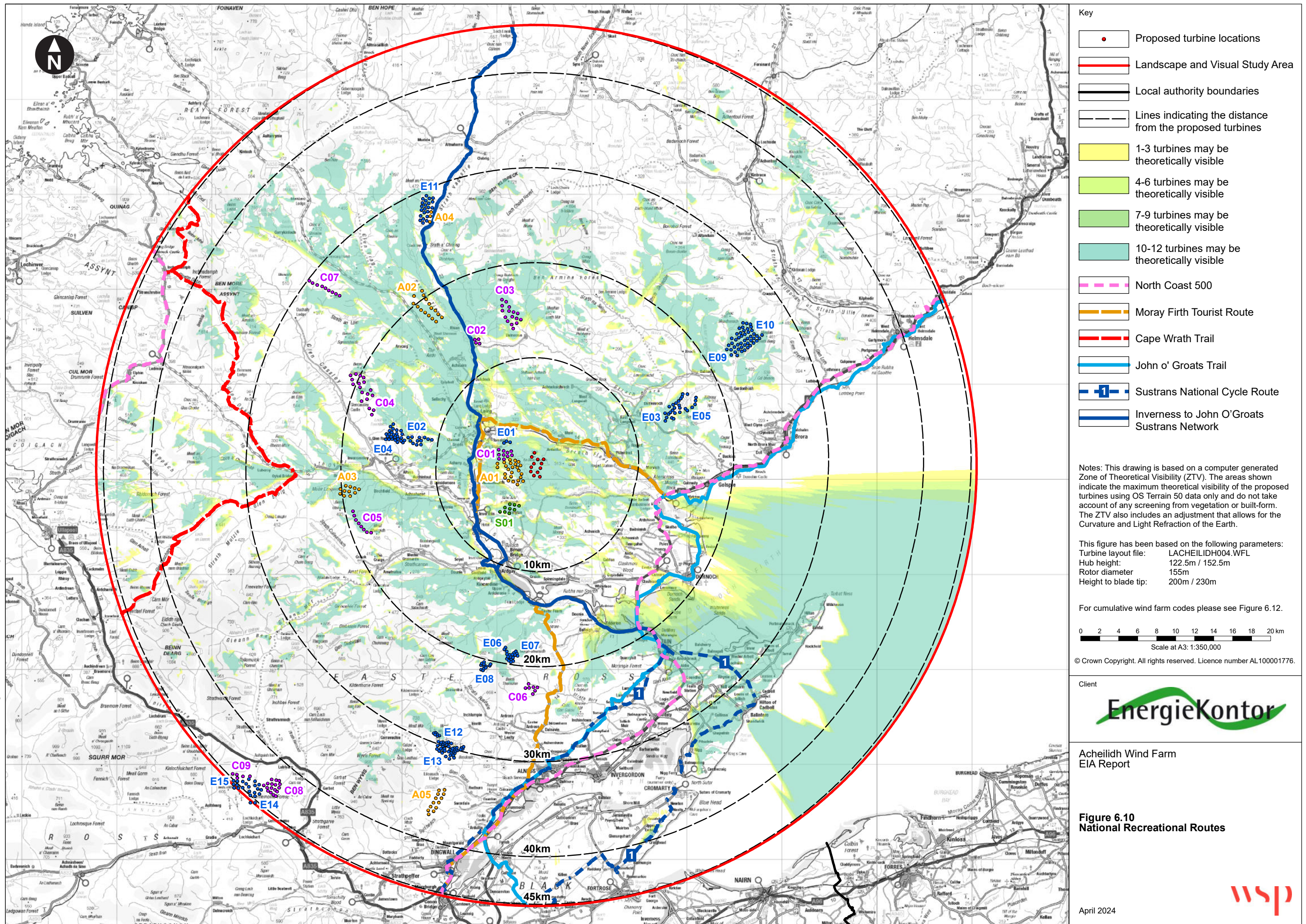
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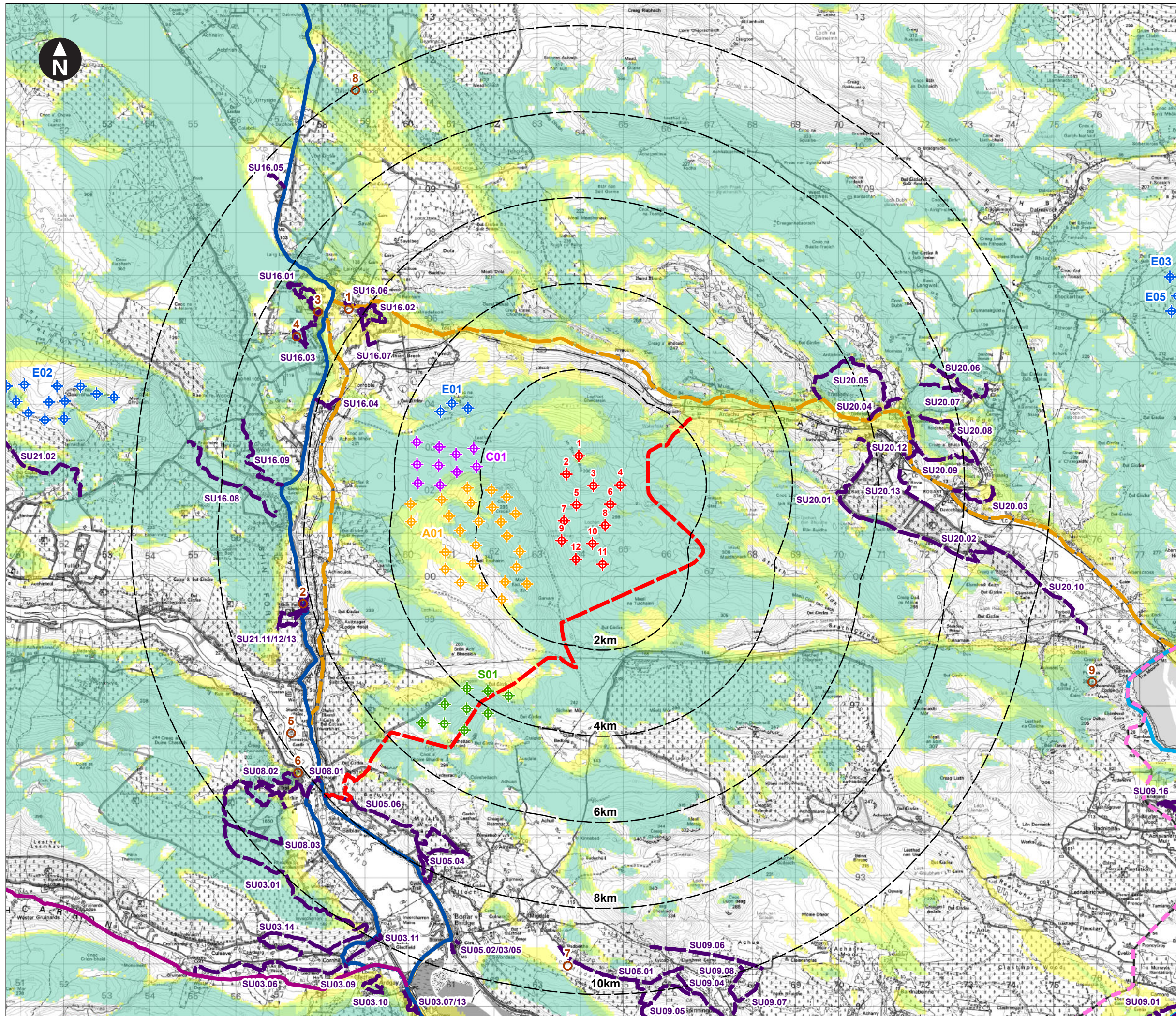


Acheilidh Wind Farm
EIA Report

Figure 6.9b
Dornoch Firth National Scenic Area with
Blade Tip ZTV and Forestry Excluded







Key

- Proposed turbine locations
- Lines indicating the distance from the proposed turbines
- Hill Track 318: Aultguish Inn to Ardgay (Dornoch Firth)
- Heritage Path: Rogart Drove Road
- North Coast 500
- Moray Firth Tourist Route
- Core Paths
- John o' Groats Trail
- Inverness to John O'Groats Sustrans Network
- Visitor Attractions and Facilities

1) Lairg Caravan Park	6) Carbisdale Castle
2) Falls of Shin Visitor Centre	7) Loch Migdale
3) Ferrycroft Visitor Centre	8) Dalchork Forest Trails
4) The Ord	9) Princess Cairn
5) Invershin Castle	

1-3 turbines may be theoretically visible

4-6 turbines may be theoretically visible

7-9 turbines may be theoretically visible

10-12 turbines may be theoretically visible

Notes: This drawing is based on a computer generated Zone of Theoretical Visibility (ZTV). The areas shown indicate the maximum theoretical visibility of the proposed turbines using OS Terrain 50 data only and do not take account of any screening from vegetation or built-form. The ZTV also includes an adjustment that allows for the Curvature and Light Refraction of the Earth.

This figure has been based on the following parameters:
Turbine layout file: LACHEILIDH004.WFL
Hub height: 122.5m / 152.5m
Rotor diameter: 155m
Height to blade tip: 200m / 230m

For cumulative wind farm codes please see Figure 6.12.

0 1 2 3 4 5 km

Scale at A3: 1:85,000

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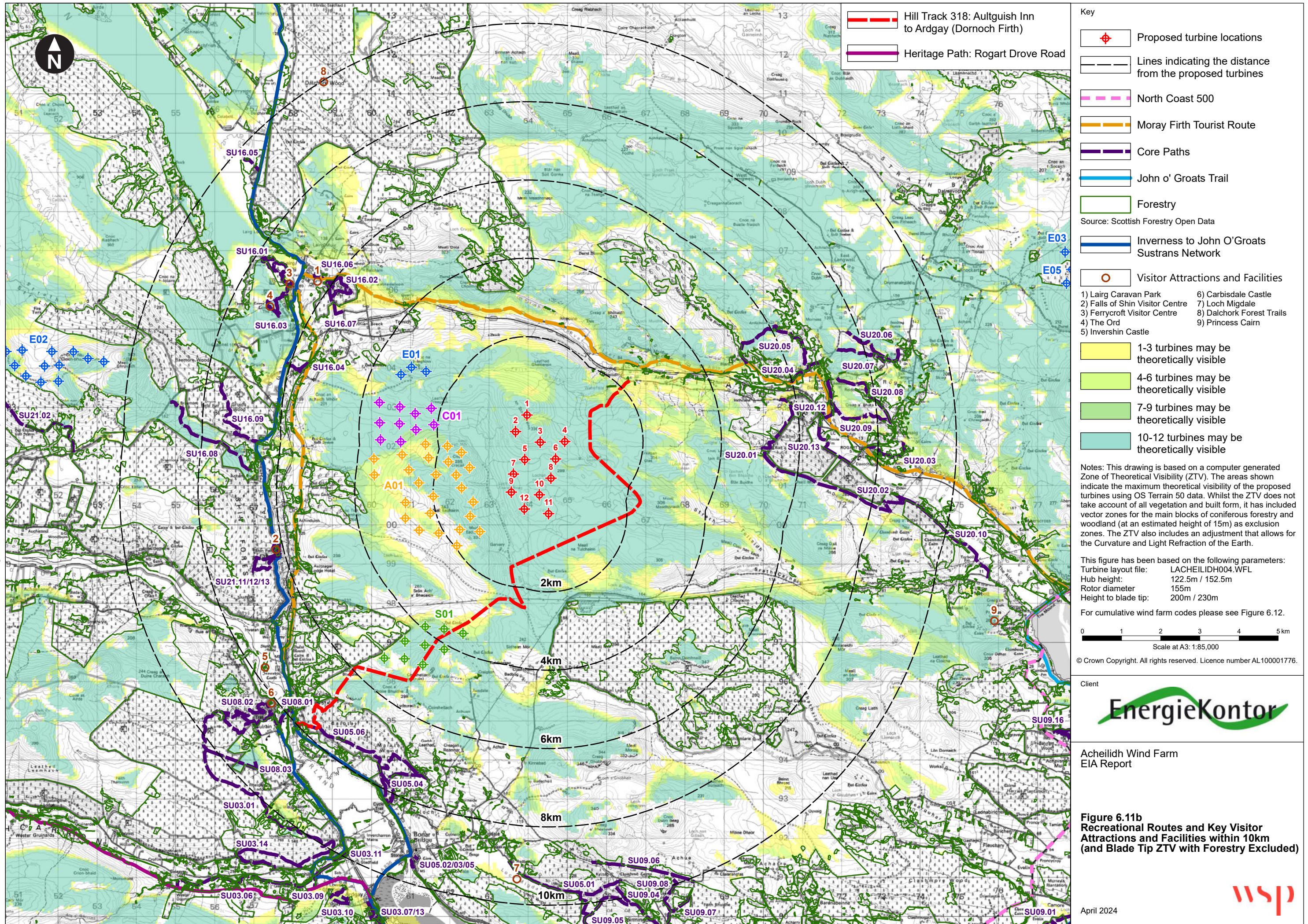
EnergieKontor

Acheilidh Wind Farm
EIA Report

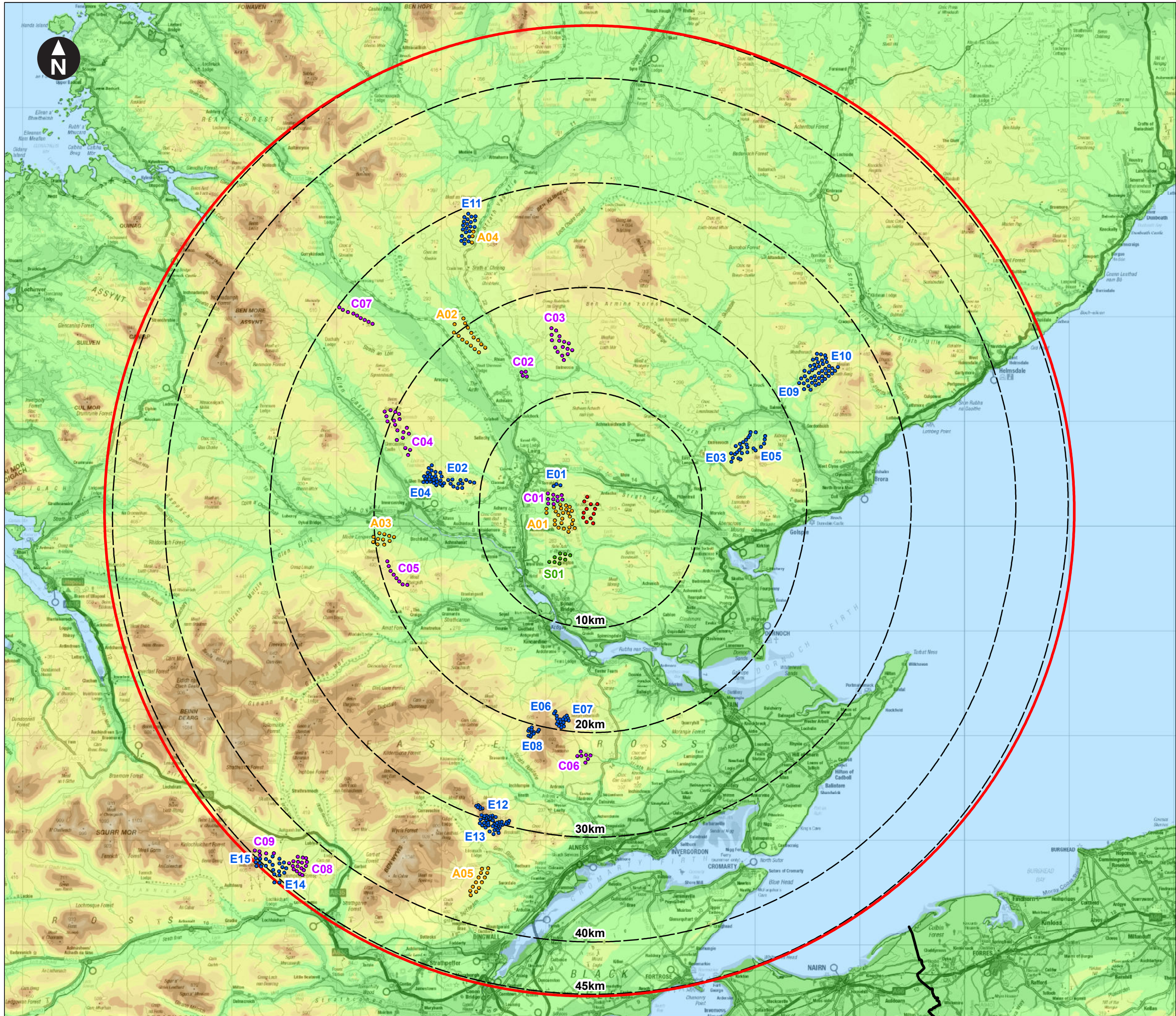
**Figure 6.11a
Recreational Routes and Key Visitor
Attractions and Facilities within 10km**

April 2024

wsp



C:\Users\UKCGW775\OneDrive - WSP\O365\ArcGIS\Laing 3\ArcGIS\MXD\2024-04 LVIA \Figure 6.12 Cumulative 808755-WSP-FG-SA-00112_R1.mxd Originator: wlisc03



Key

- Proposed turbine locations
- Landscape and Visual Study Area
- Local authority boundaries
- Lines indicating the distance from the proposed turbines
- Existing Wind Farms
 - E01) Lairg
 - E02) Achary
 - E03) Kilbraur Extension
 - E04) Rosehall
 - E05) Kilbraur
 - E06) Beinn nan Oighrean
 - E07) Beinn Tharsuinn
 - E08) Coire na Cloiche
 - E09) Gordonbush Extension
 - E10) Gordonbush
 - E11) Creag Riabhach
 - E12) Novar
 - E13) Novar Extension
 - E14) Corriemoillie
 - E15) Lochluichart Extension
- Consented Wind Farms
 - C01) Lairg II
 - C02) Strath Tirry
 - C03) Chleainsaid
 - C04) Achany Extension
 - C05) Meall Buidhe
 - C06) Strathorry
 - C07) Sallachy
 - C08) Kirkan
 - C09) Lochluichart Extension II
- Application Wind Farms
 - A01) Garvary
 - A02) Shinness
 - A03) Strath Oykel
 - A04) Creag Riabhach Extension
 - A05) Abhainn Dubh
- Scoping Wind Farms (within 10km)
 - S01) Balblair

Topography

- 1109m AOD and above
- 0m AOD

0 2 4 6 8 10 12 14 16 18 20 km

Scale at A3: 1:350,000

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Client

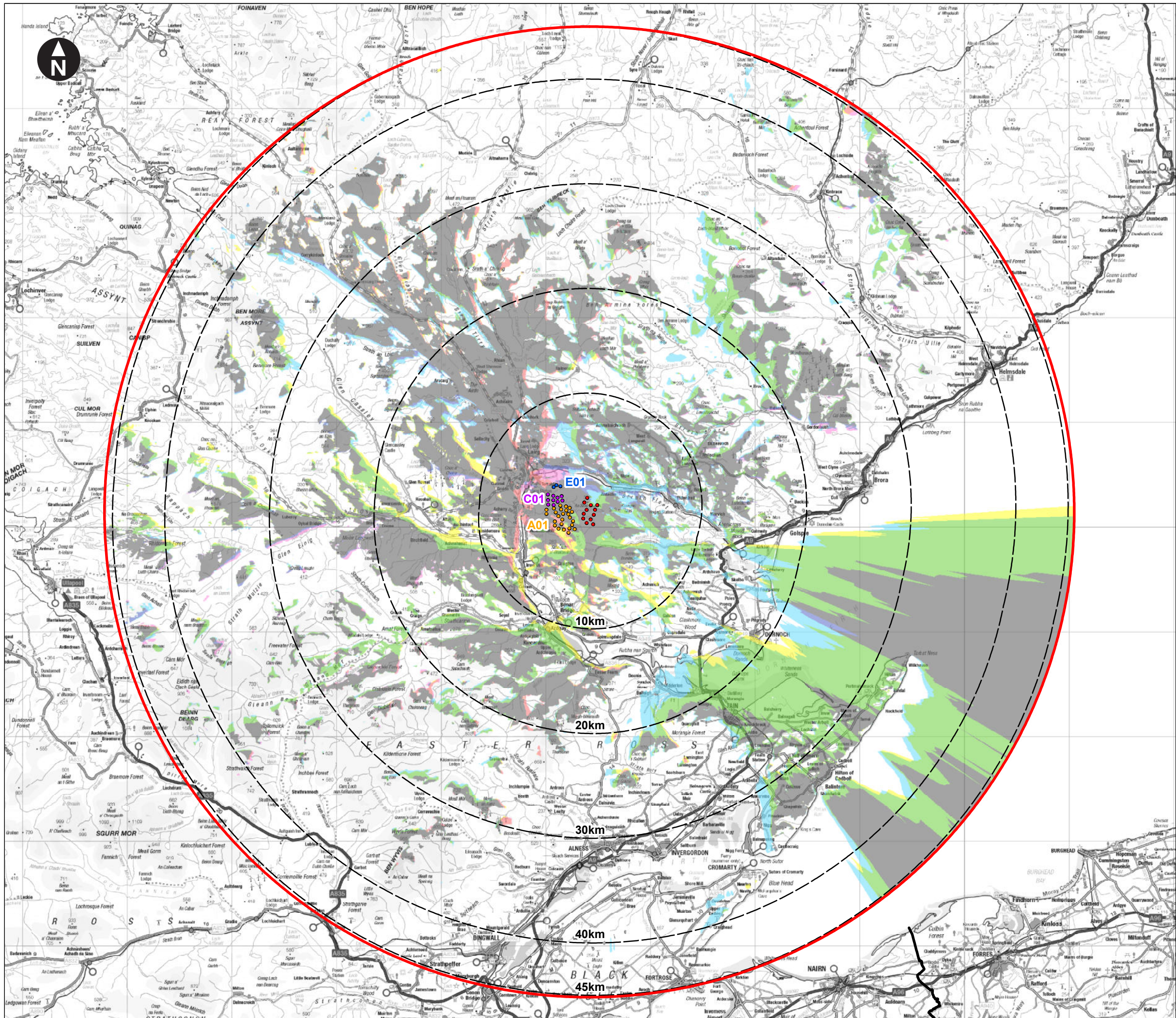
EnergieKontor

Acheilidh Wind Farm
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Figure 6.12
Cumulative Wind Farms within 45km

April 2024

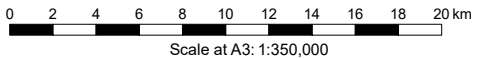
wsp



- Key
- Proposed turbine locations
 - Landscape and Visual Study Area
 - Local authority boundaries
 - Lines indicating the distance from the proposed turbines
 - Existing Wind Farms
 - Consented Wind Farms
 - Application Wind Farms
 - Acheilidh wind farm may be theoretically visible
 - Lairg / Lairg II wind farms may be theoretically visible
 - Garvary wind farm may be theoretically visible
 - Acheilidh and Lairg / Lairg II wind farms may be theoretically visible
 - Acheilidh and Garvary wind farms may be theoretically visible
 - Lairg / Lairg II and Garvary wind farms may be theoretically visible
 - Acheilidh, Lairg / Lairg II and Garvary wind farms may be theoretically visible

Notes: This drawing is based on a computer generated Zone of Theoretical Visibility (ZTV). The areas shown indicate the maximum theoretical visibility of the proposed turbines using OS Terrain 50 data only and do not take account of any screening from vegetation or built-form. The ZTV also includes an adjustment that allows for the Curvature and Light Refraction of the Earth.

This figure has been based on the following parameters:
Turbine layout file: LACHEILIDH004.WFL
Hub height: 122.5m / 152.5m
Rotor diameter: 155m
Height to blade tip: 200m / 230m



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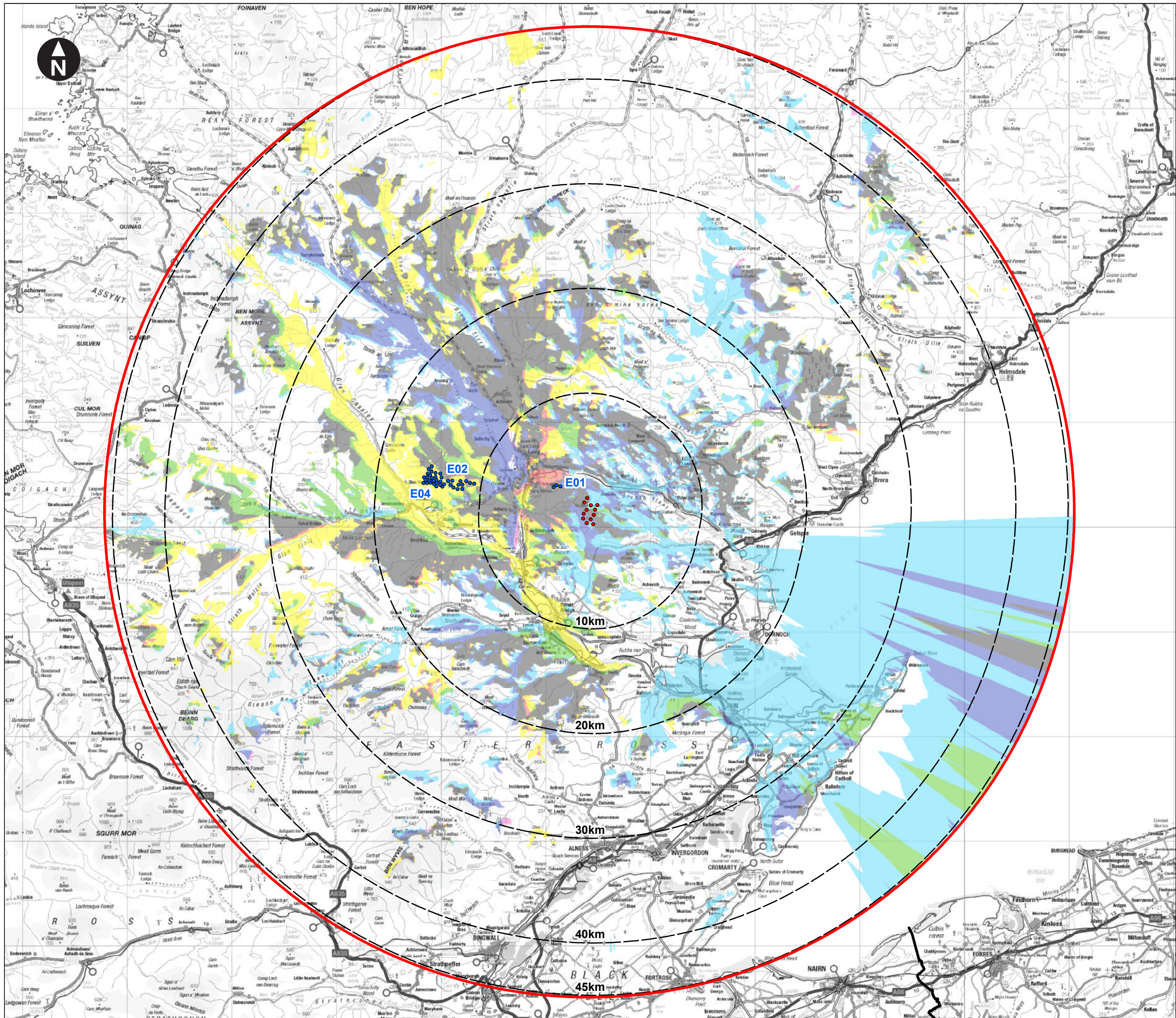


Acheilidh Wind Farm
EIA Report

Figure 6.13
Cumulative ZTV 1: Acheilidh with Lairg,
Lairg II and Garvary wind farms

April 2024





Key

Proposed turbine locations

Landscape and Visual Study Area

Local authority boundaries

Lines indicating the distance from the proposed turbines

Existing Wind Farms

E01) Laing
E02) Achany
E04) Rosehall

Acheilidh wind farm
may be theoretically visible

Lairg wind farm
may be theoretically visible

Achany / Rosehall wind farms
may be theoretically visible

Acheilidh and Lairg wind farms
may be theoretically visible

Acheilidh and Achany / Rosehall
wind farms may be
theoretically visible

Lairg and Achany / Rosehall
wind farms may be
theoretically visible

Acheilidh, Lairg and Achany /
Rosehall wind farms may be
theoretically visible

Notes: This drawing is based on a computer generated Zone of Theoretical Visibility (ZTV). The areas shown indicate the maximum theoretical visibility of the proposed turbines using OS Terrain 50 data only and do not take account of any screening from vegetation or built-form. The ZTV also includes an adjustment that allows for the Curvature and Light Refraction of the Earth.

This figure has been based on the following parameters:

Turbine layout file:	LACHEILIDH004.WFL
Hub height:	122.5m / 152.5m
Rotor diameter	155m
Height to blade tip:	200m / 230m

02468101214161820 km

Scale at A3: 1:350,000

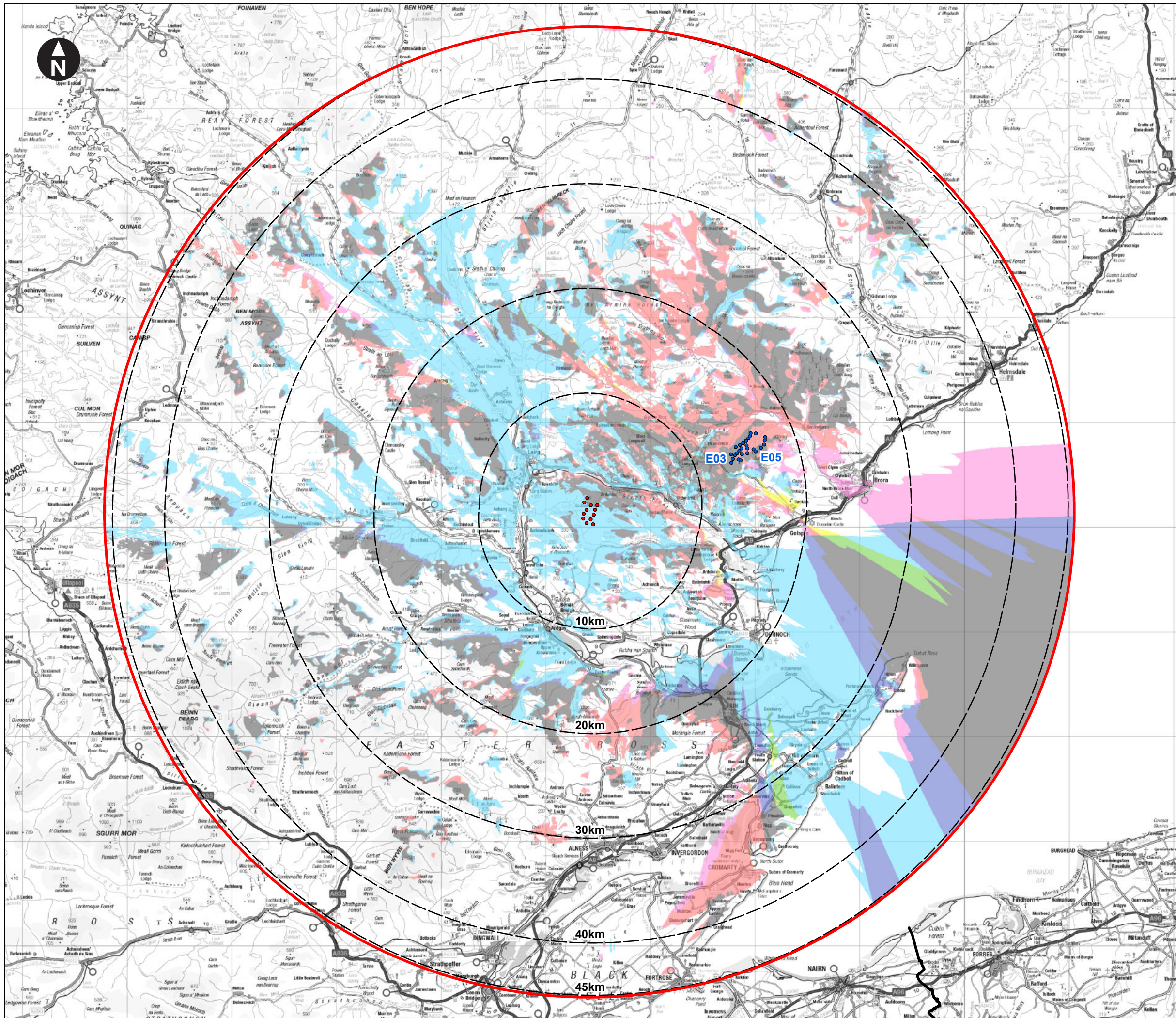
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Acheilidh Wind Farm
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Figure 6.14
**Cumulative ZTV 2: Acheilidh with Laing,
Achany and Rosehall wind farms**

April 2024



Key

- Proposed turbine locations
- Landscape and Visual Study Area
- Local authority boundaries
- Lines indicating the distance from the proposed turbines
- Existing Wind Farms
- E03) Kilbraur Extension
- E05) Kilbraur
- Acheilidh wind farm may be theoretically visible
- Kilbraur wind farm may be theoretically visible
- Kilbraur Extension wind farm may be theoretically visible
- Acheilidh and Kilbraur wind farms may be theoretically visible
- Acheilidh and Kilbraur Extension wind farms may be theoretically visible
- Kilbraur and Kilbraur Extension wind farms may be theoretically visible
- Acheilidh, Kilbraur and Kilbraur Extension wind farms may be theoretically visible

Notes: This drawing is based on a computer generated Zone of Theoretical Visibility (ZTV). The areas shown indicate the maximum theoretical visibility of the proposed turbines using OS Terrain 50 data only and do not take account of any screening from vegetation or built-form. The ZTV also includes an adjustment that allows for the Curvature and Light Refraction of the Earth.

This figure has been based on the following parameters:

Turbine layout file:	LACHEILIDH004.WFL
Hub height:	122.5m / 152.5m
Rotor diameter	155m
Height to blade tip:	200m / 230m

0 2 4 6 8 10 12 14 16 18 20 km

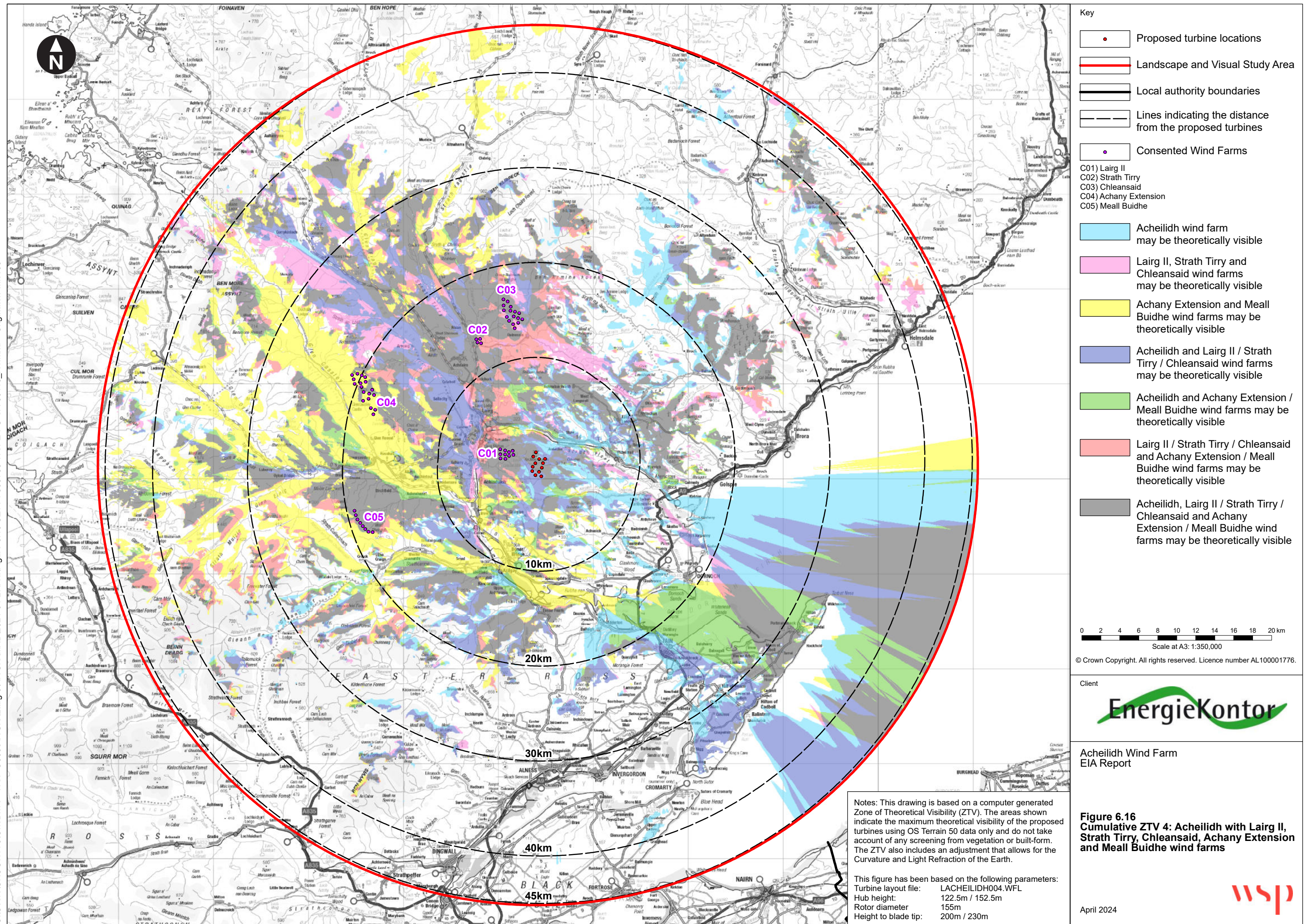
Scale at A3: 1:350,000

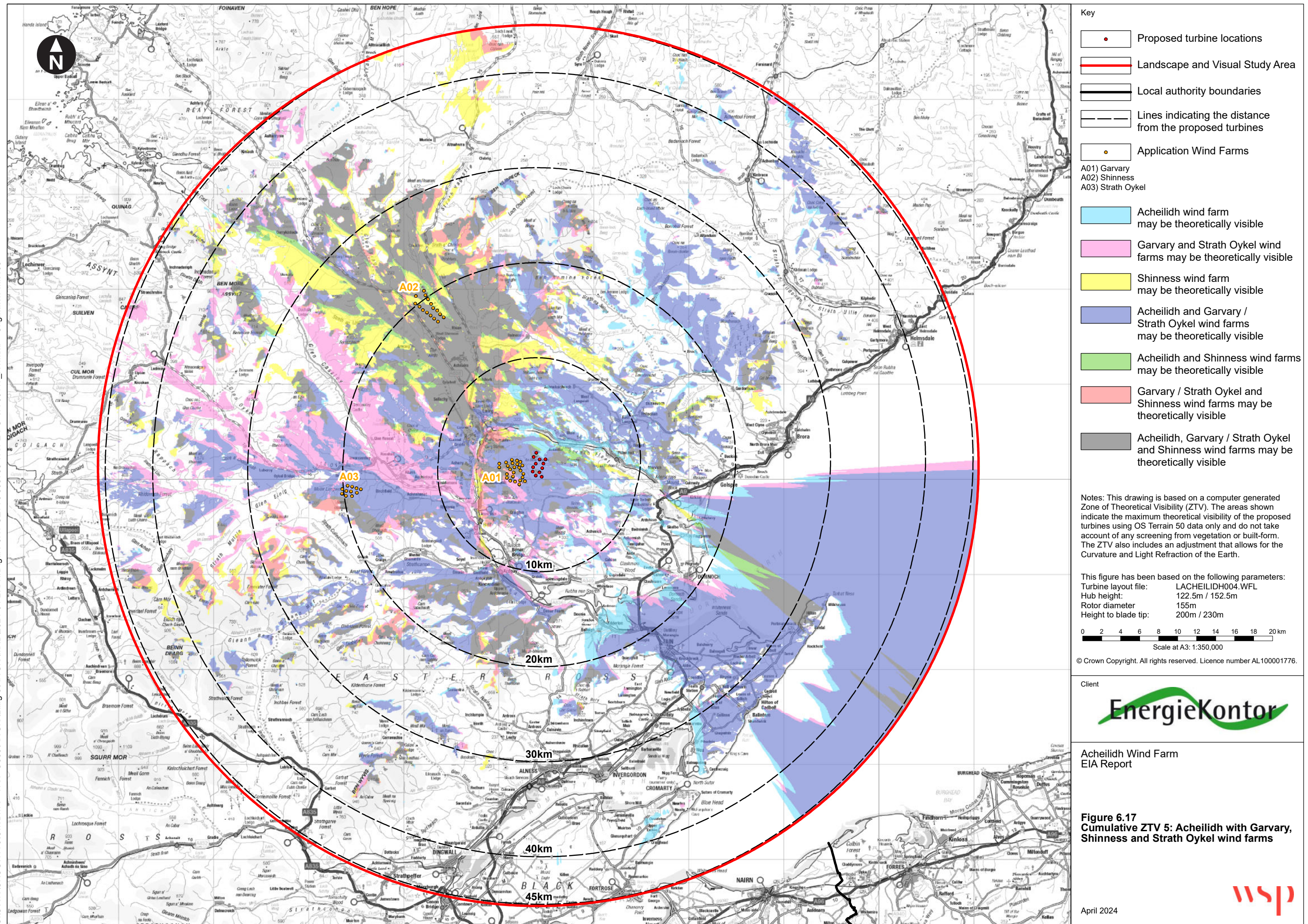
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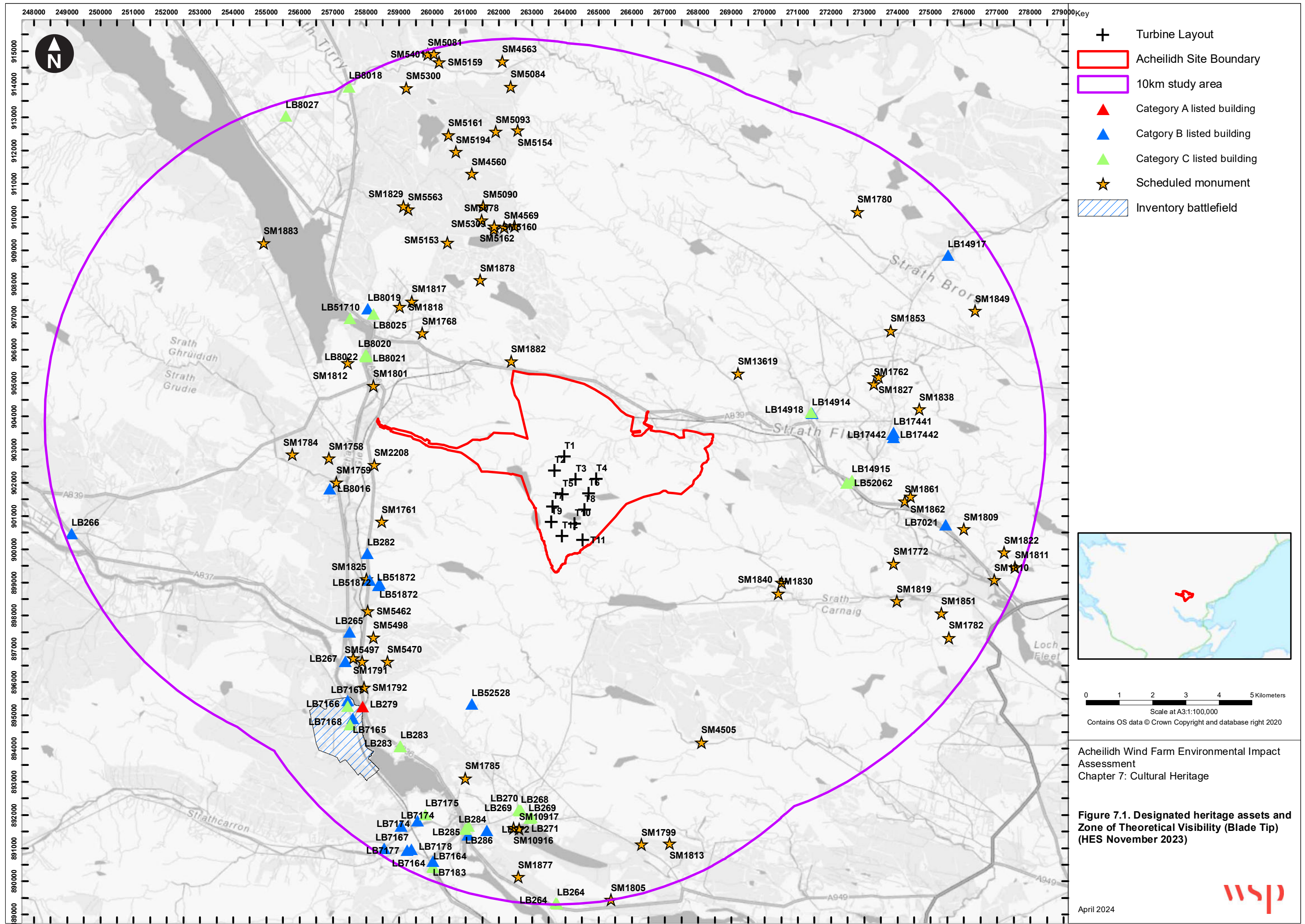


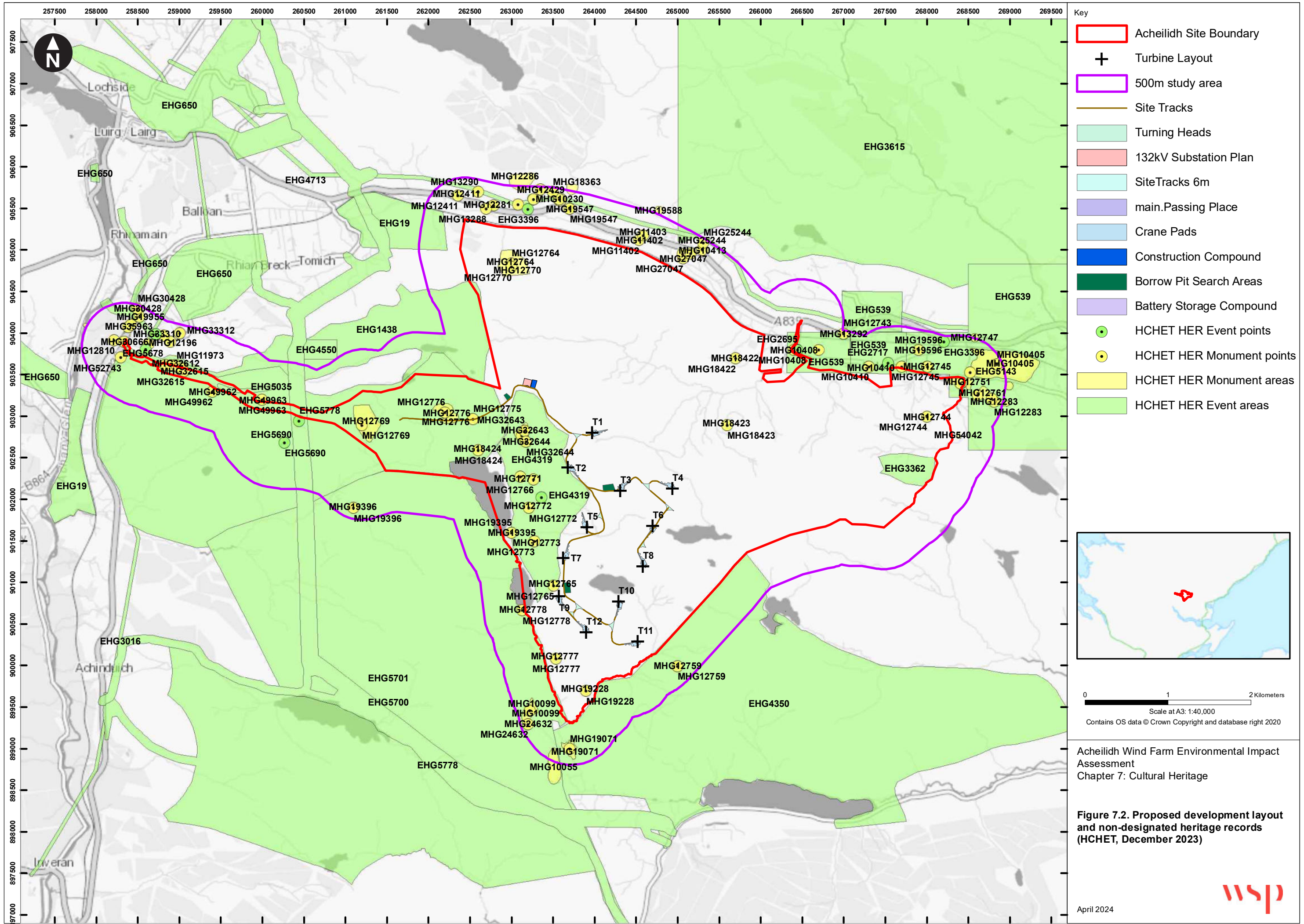
Acheilidh Wind Farm
EIA Report

Figure 6.15
Cumulative ZTV 3: Acheilidh with Kilbraur
and Kilbraur Extension wind farms











Photomontage

View flat at a comfortable arm's length

OS reference:	N257 404, E905 571	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk2
Eye level:	153.5m AOD	Principal distance:	522mm	Lens:	50mm (Canon EF 50mm f/1.8)
Direction of view:	122°	Paper size:	841mm x 297mm (half A1)	Camera height:	1.5m AGL
Nearest turbine:	7,040m	Correct printed image size:	820 x 260mm	Date and time:	26/02/2023 13:20



Acheilidh Wind Farm
EIA Report

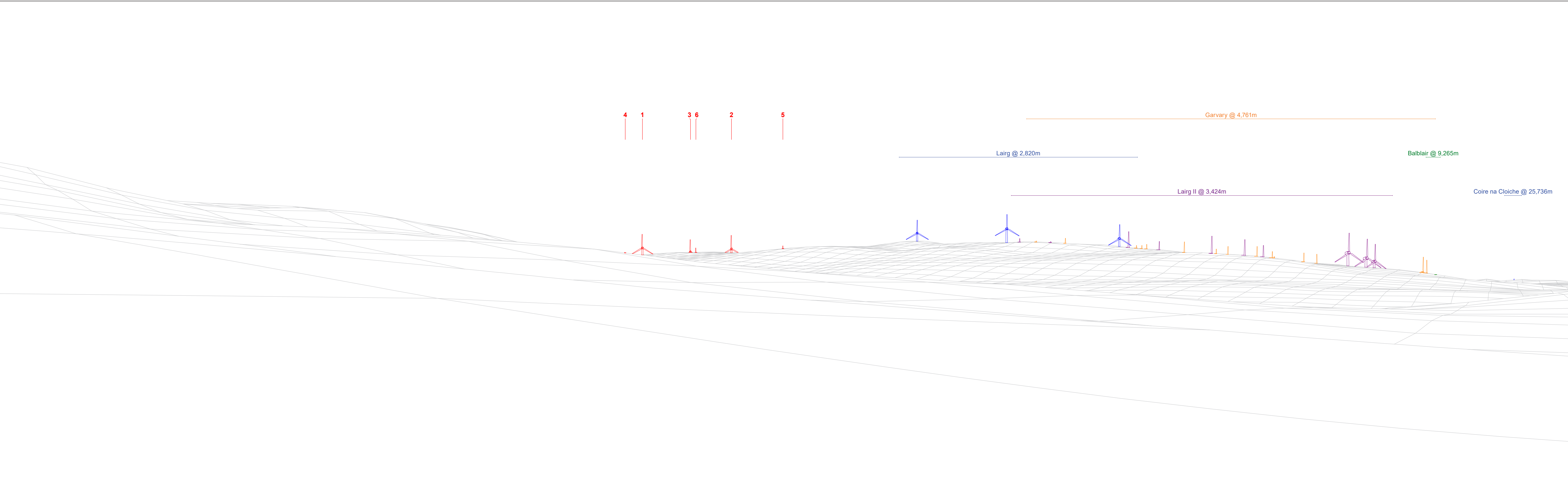
Figure 7.3
Photomontage Visualisation from
The Ord (SM1812)

April 2024

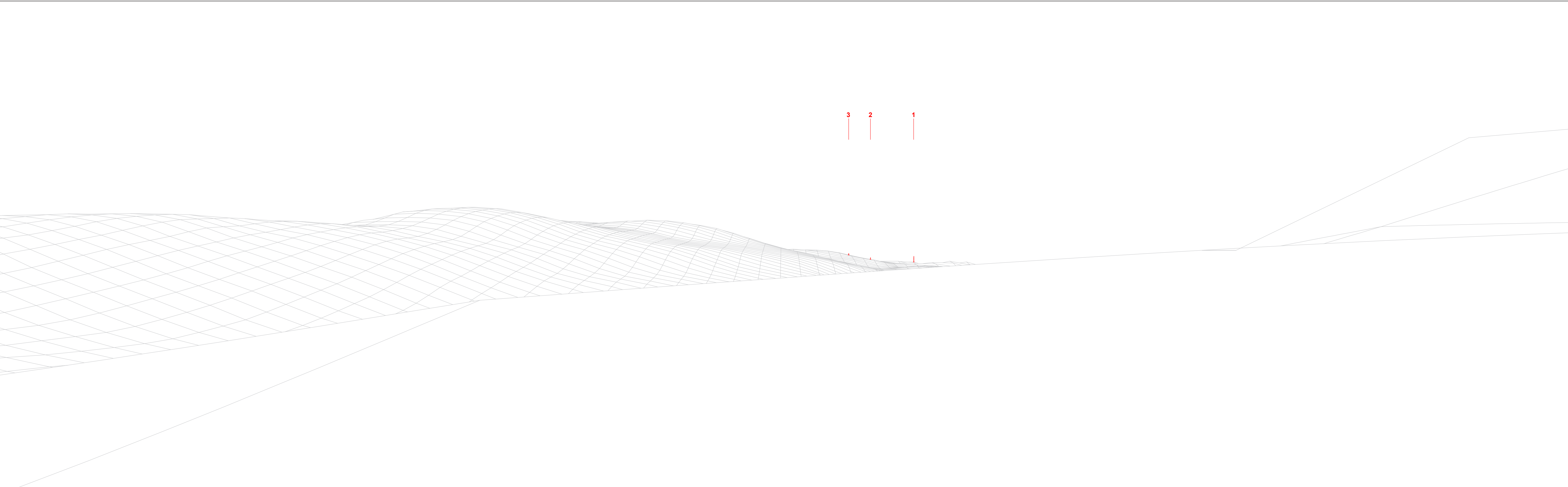


C:\Users\UKG\OneDrive - WSP\OneDrive - WSP\0385\AcGIS\Lang 31\Design\Cultural Heritage\Figure 7.3 The Ord 863781 WSP-FC-SA-0074_R1.mxd
Originator: wils03

C:\Users\UKG\OneDrive - WSP\OneDrive - WSP\0385\ArcGIS\Laing 31\Design\Cultural Heritage\Figure 7.4 Balcham 85576-WSP-FG-Sk-00175_R1.indd Originator: wils03



C:\Users\UKG\OneDrive - WSP\OneDrive - WSP\0385\ArcGIS\Lang 31\Design\Cultural Heritage\Figure 7.5 Kinnauld Fort\85761\WSP\FG-SA-00176_R1.indd Originator: wilsc03



Wireline drawing

View flat at a comfortable arm's length

Wind Farm Key:  Acheilidh Wind Farm  Existing  Consented  Application

OS reference:	N274 216, E901 455	Horizontal field of view:	90° (cylindrical projection)
Eye level:	67.5m AOD	Principal distance:	522mm
Direction of view:	270°	Paper size:	841mm x 297mm (half A1)
Nearest turbine:	9,305m	Correct printed image size:	620 x 260mm

Client



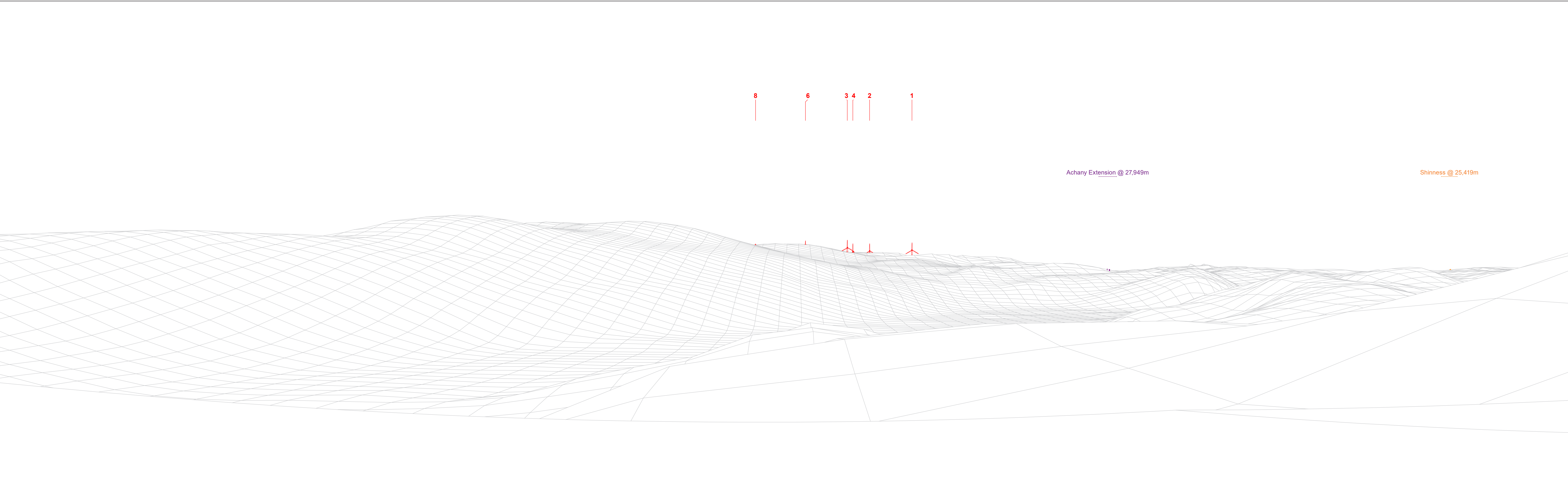
Acheilidh Wind Farm
EIA Report

Figure 7.5
Wireframe Visualisation from
East Kinnauld Fort (SM1861)

April 2024



C:\Users\UKCG\775OneDrive - WSP\0385\ArcGIS\Lang 31\Design\Cultural Heritage\Figure 7.6 Wireframe Visualisation from East Kinnauld Broch (SM1862).indd 3
Originator: wils03



Wireline drawing

Wind Farm Key: Acheilidh Wind Farm Existing Consented Application

OS reference:	N274 385, E901 586	Horizontal field of view:	90° (cylindrical projection)
Eye level:	117.5m AOD	Principal distance:	522mm
Direction of view:	269°	Paper size:	841mm x 297mm (half A1)
Nearest turbine:	9.465m	Correct printed image size:	620 x 260mm



Acheilidh Wind Farm
EIA Report

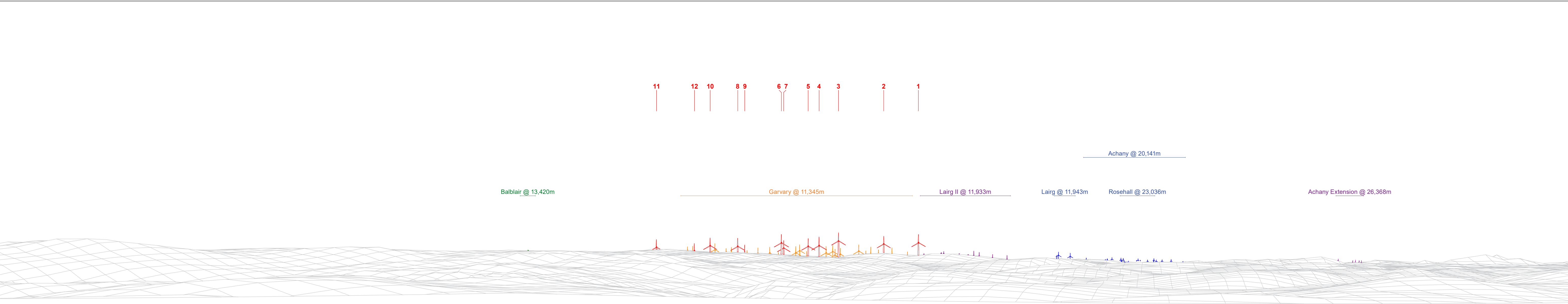
Figure 7.6
Wireframe Visualisation from
East Kinnauld Broch (SM1862)

April 2024



View flat at a comfortable arm's length

C:\Users\UKCG\775\OneDrive - WSP\0385\ArcGIS\Laing 31\Design\Cultural Heritage\Figure 7.7 Achnagarron 655781-WSP-E-FG-SA-0078_R1.indd Originator: willc03



Wireline drawing

Wind Farm Key: Acheilidh Wind Farm Existing Consented Application

OS reference:	N273 292, E904 981	Horizontal field of view:	90° (cylindrical projection)
Eye level:	164.5m AOD	Principal distance:	522mm
Direction of view:	249°	Paper size:	841mm x 297mm (half A1)
Nearest turbine:	8,829m	Correct printed image size:	620 x 260mm

Client



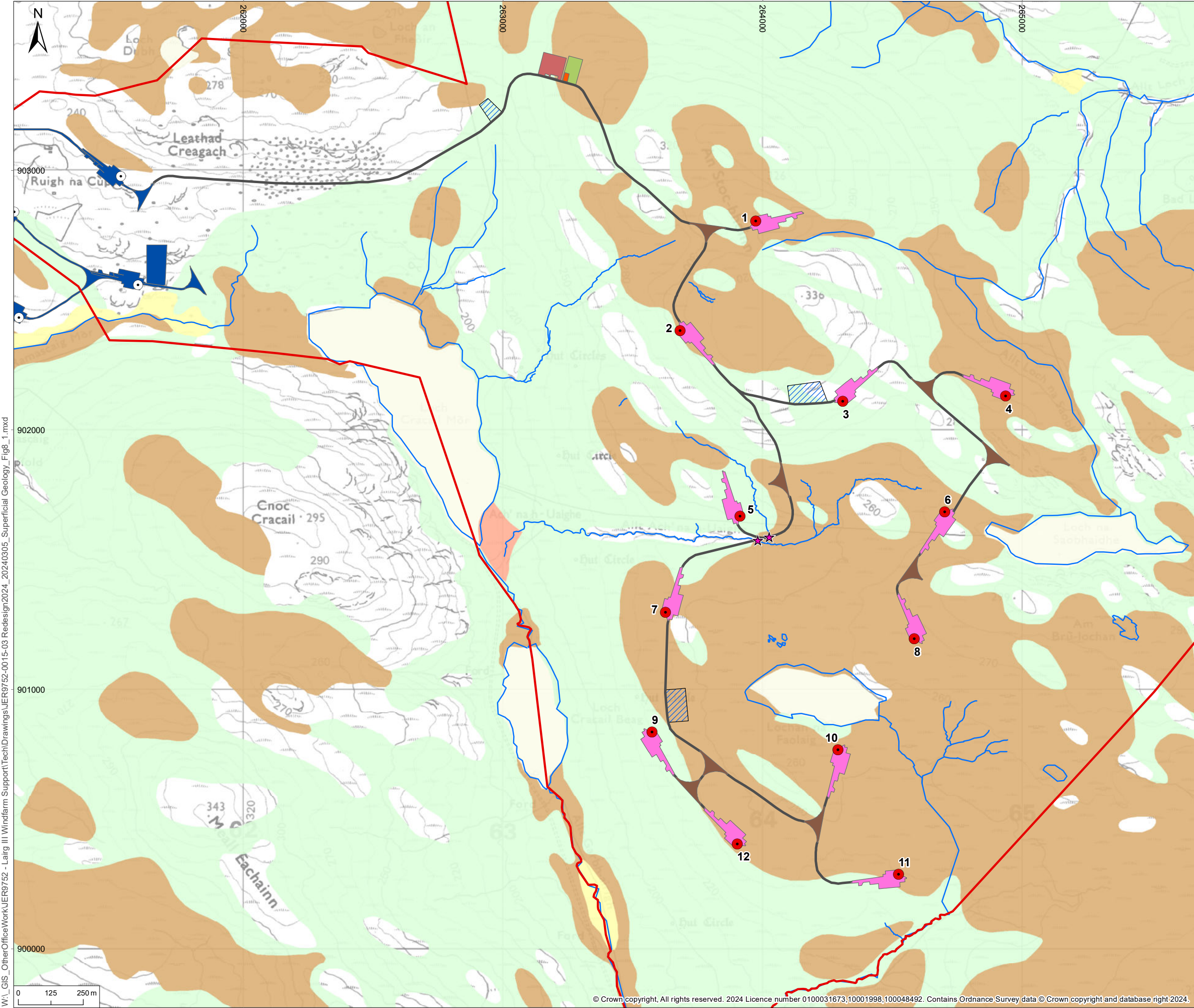
Acheilidh Wind Farm
EIA Report

Figure 7.7
Wireframe Visualisation from
Achnagarron Standing Stones (SM1762)

April 2024



View flat at a comfortable arm's length



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Legend

- Site Boundary
- Turbine Layout
- Site Tracks
- 132kV Substation
- Battery Storage Compound
- Borrow Pit Search Areas
- Crane Pads
- Construction Compound
- Turning Heads
- New Watercourse Crossing

Consented Lairg II Wind Farm

- Consented Lairg II Turbine Locations
- Consented Lairg II Infrastructure

Superficial Geology (LEX_RCS_I)

- Alluvium
- Till
- Alluvial Fan
- Deposits
- Surface Water

Rev	Description	By	CB	Date



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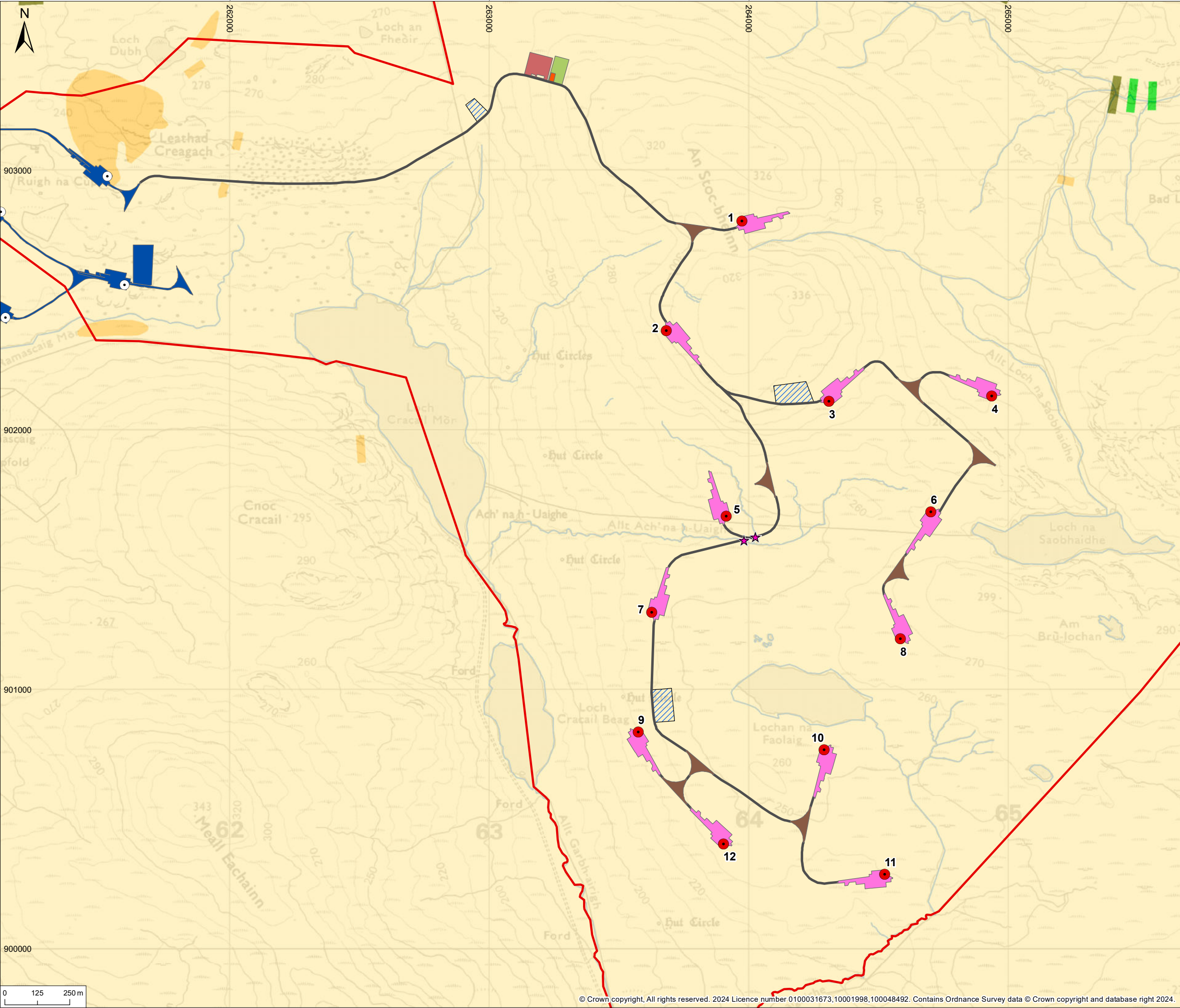
Title **Superficial Geology**

Status	Drawn By	PM/Checked By
Issue	KAG	SC
Project Number	Scale @ A3	Date Created
JER9752	1:14,000	MAR 2024
Figure Number		Rev
8.1		03

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W:_GIS_OtherOfficeWork\UER9752 - Lairg III Windfarm Support\TechDrawings\UER9752-0015-03 Redesign2024_20240305_Superficial Geology_Fig8_1.mxd

W:_GIS_OtherOfficeWork\JER9752 - Lairg III Windfarm Support\Tech\Drawings\JER9752-0016-03 Redesign2024_20240305_Bedrock Geology_Fig8_2.mxd



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Legend

- Site Boundary
- Turbine Layout
- Site Tracks
- 132kV Substation
- Battery Storage Compound
- Borrow Pit Search
- Crane Pads
- Construction Compound
- Turning Heads
- New Watercourse Crossing

Consented Lairg II Wind Farm

- Consented Lairg II Turbine Locations
- Consented Lairg II Infrastructure

Bedrock Geology (LEX_RCS_I)

- Siluro Devonian Calc-Alkaline Dyke
- Ach'uaiane Cluster
- Siluro-Devonian Calc-Alkaline Minor
- Intrusion Altnaharra Psammite Formation
- Neoproterozoic Basic Minor Intrusion

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Title

Bedrock Geology

Status

Issue

Project Number

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Figure Number

8.2

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KAG

Scale @ A3

1:14,000

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Date Created

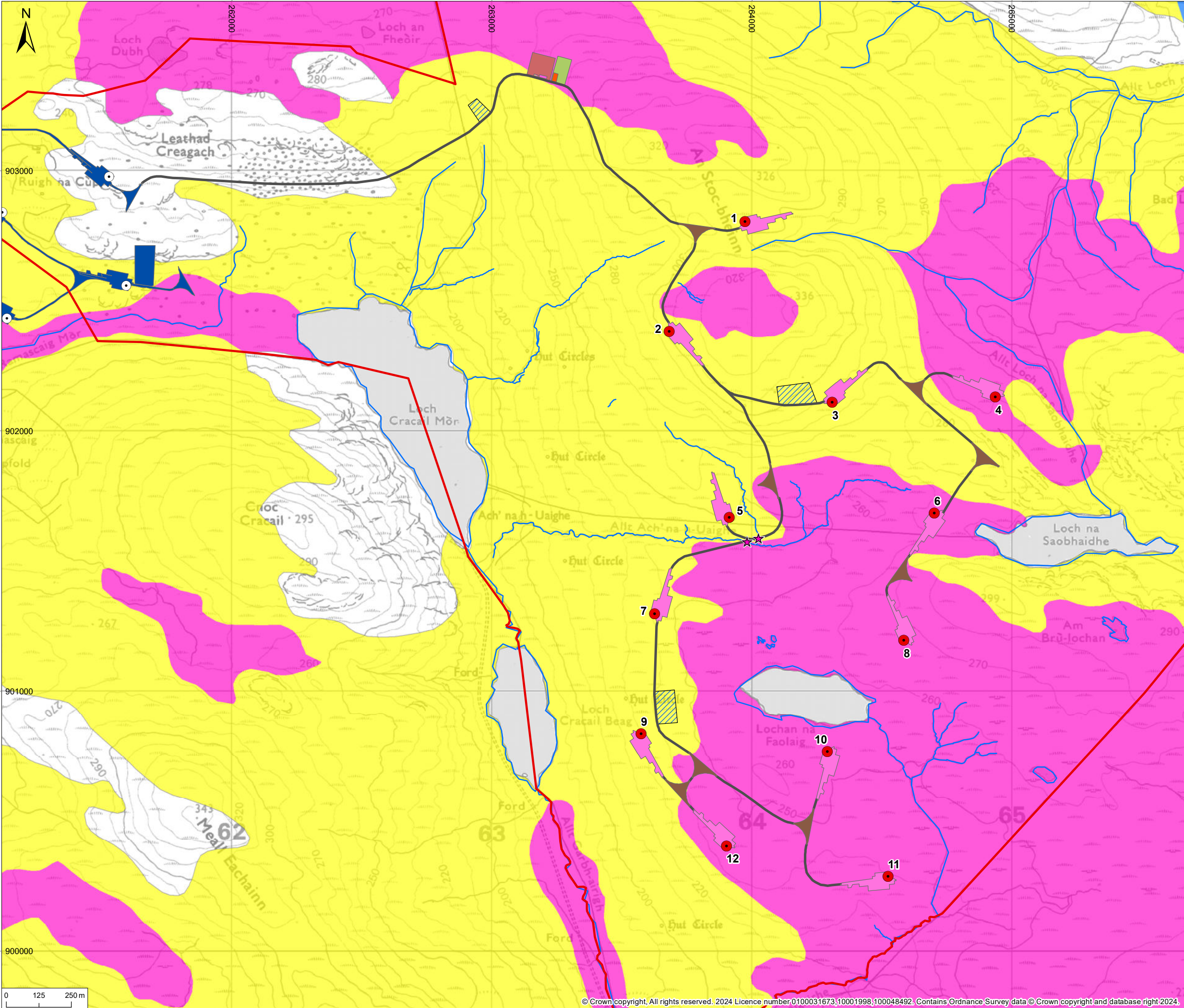
MAR 2024

Rev

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Legend

- Site Boundary
- Turbine Layout
- Site Tracks
- 132kV Substation
- Battery Storage Compound
- Borrow Pit Search
- Crane Pads
- Construction Compound
- Turning Heads
- New Watercourse Crossing

Consented Lairg II Wind Farm

- Consented Lairg II Turbine Locations
- Consented Lairg II Infrastructure

Carbon rich soil, deep peat and priority peatland habitats

- Class 1
- Class 2
- Class 3
- Class 4

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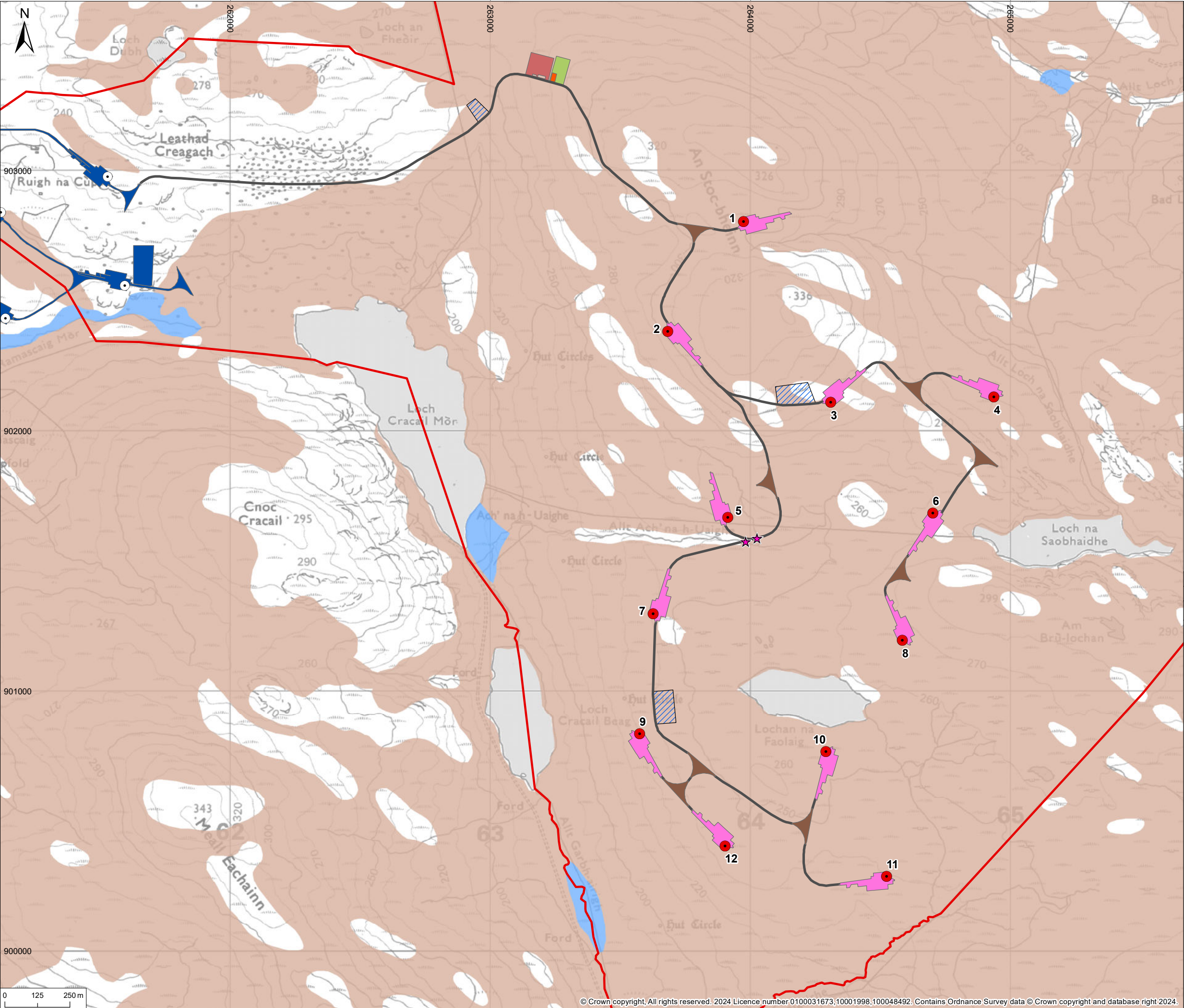
Project **Acheilidh Wind Farm**

Title **Soils Mapping**

Status	Drawn By	PM/Checked By
Issue	KAG	SC
Project Number	Scale @ A3	Date Created
JER9752	1:14,000	MAR 2024
Figure Number		Rev
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Legend

- Site Boundary
- Turbine Layout
- Site Tracks
- 132kV Substation
- Battery Storage Compound
- Borrow Pit Search Areas
- Crane Pads
- Construction Compound
- Turning Heads
- New Watercourse Crossing

Consented Lairg II Wind Farm

- Consented Lairg II Turbine Locations
- Consented Lairg II Infrastructure

Superficial Deposits Aquifer Productivity

- Intergranular; Moderate to High Productivity
- Not a significant aquifer

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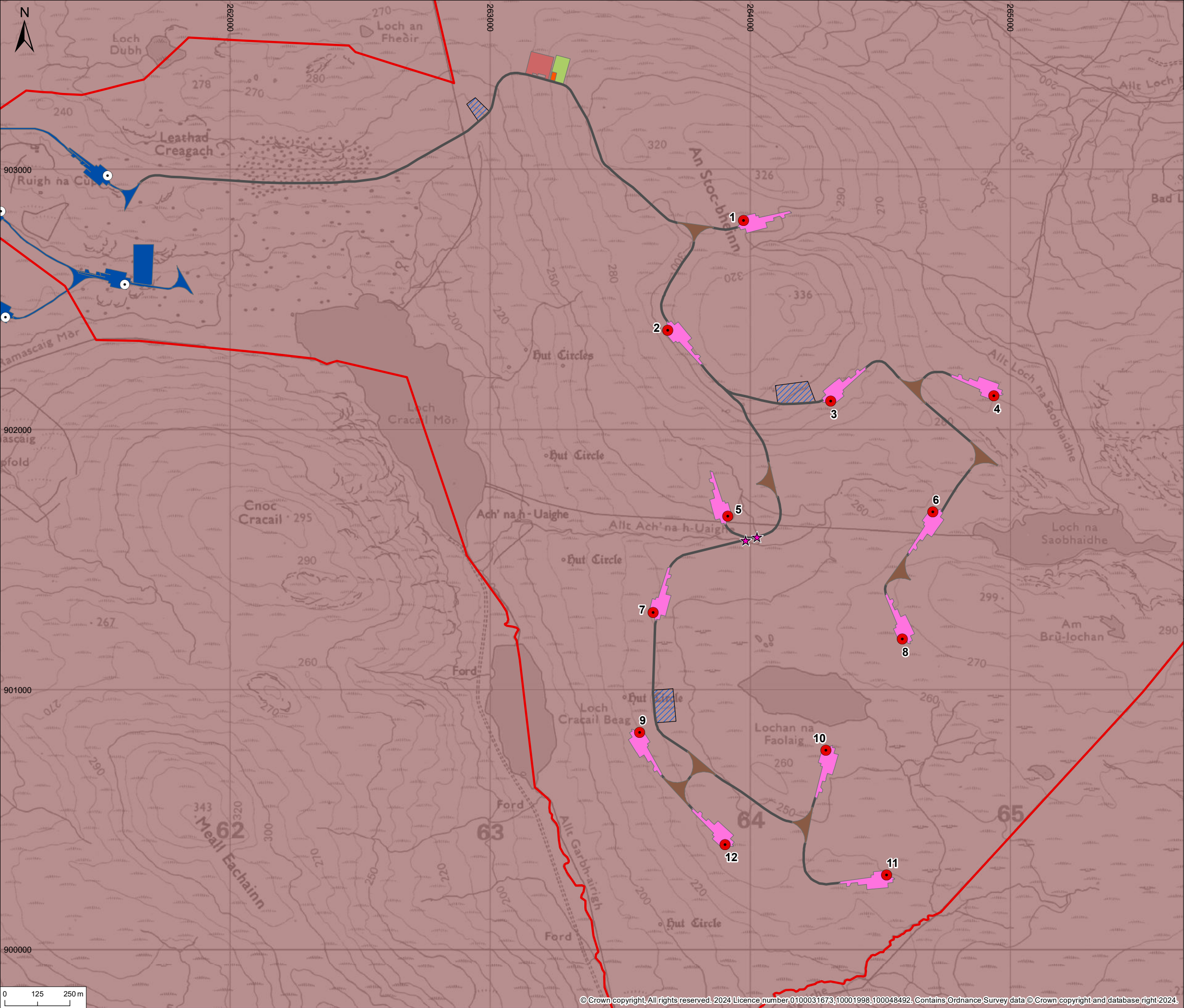
Project **Acheilidh Wind Farm**

Title **Regional Hydrogeology
Superficial Deposits Aquifer Productivity**

Status	Drawn By	PM/Checked By
Issue	KAG	SC
Project Number	Scale @ A3	Date Created
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Figure Number		Rev
8.4a		03

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Legend

- Site Boundary
- Turbine Layout
- Site Tracks
- 132kV Substation
- Battery Storage Compound
- Borrow Pit Search
- Crane Pads
- Construction Compound
- Turning Heads
- New Watercourse Crossing
- Consented Lairg II Wind Farm
 - Consented Lairg II Turbine Locations
 - Consented Lairg II Infrastructure
- Bedrock Aquifer Productivity
 - Fracture; Very Low Productivity

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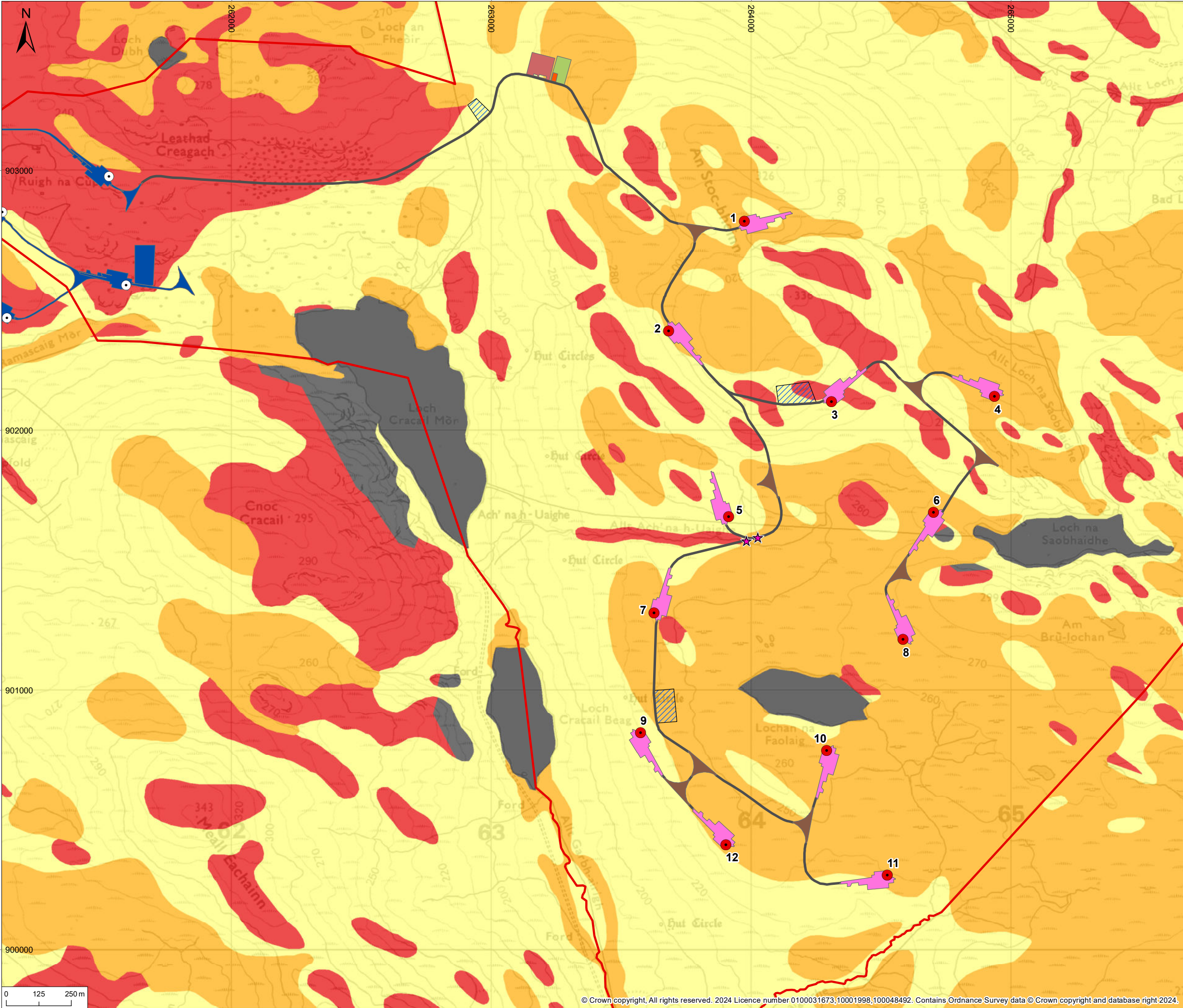
Title

Regional Hydrogeology
Bedrock Aquifer Productivity

Status	Drawn By	PM/Checked By
Issue	KAG	SC
Project Number	Scale @ A3	Date Created
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Figure Number		Rev
8.4b		03

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Legend

- Site Boundary
- Turbine Layout
- Site Tracks
- 132kV Substation
- Battery Storage Compound
- Borrow Pit Search Areas
- Crane Pads
- Construction Compound
- Turning Heads
- New Watercourse Crossing

Consented Lairg II Wind Farm

- Consented Lairg II Turbine Locations
- Consented Lairg II Infrastructure

Groundwater Vulnerability

- 5
- 4a
- 4b
- Not available

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Acheilidh Wind Farm

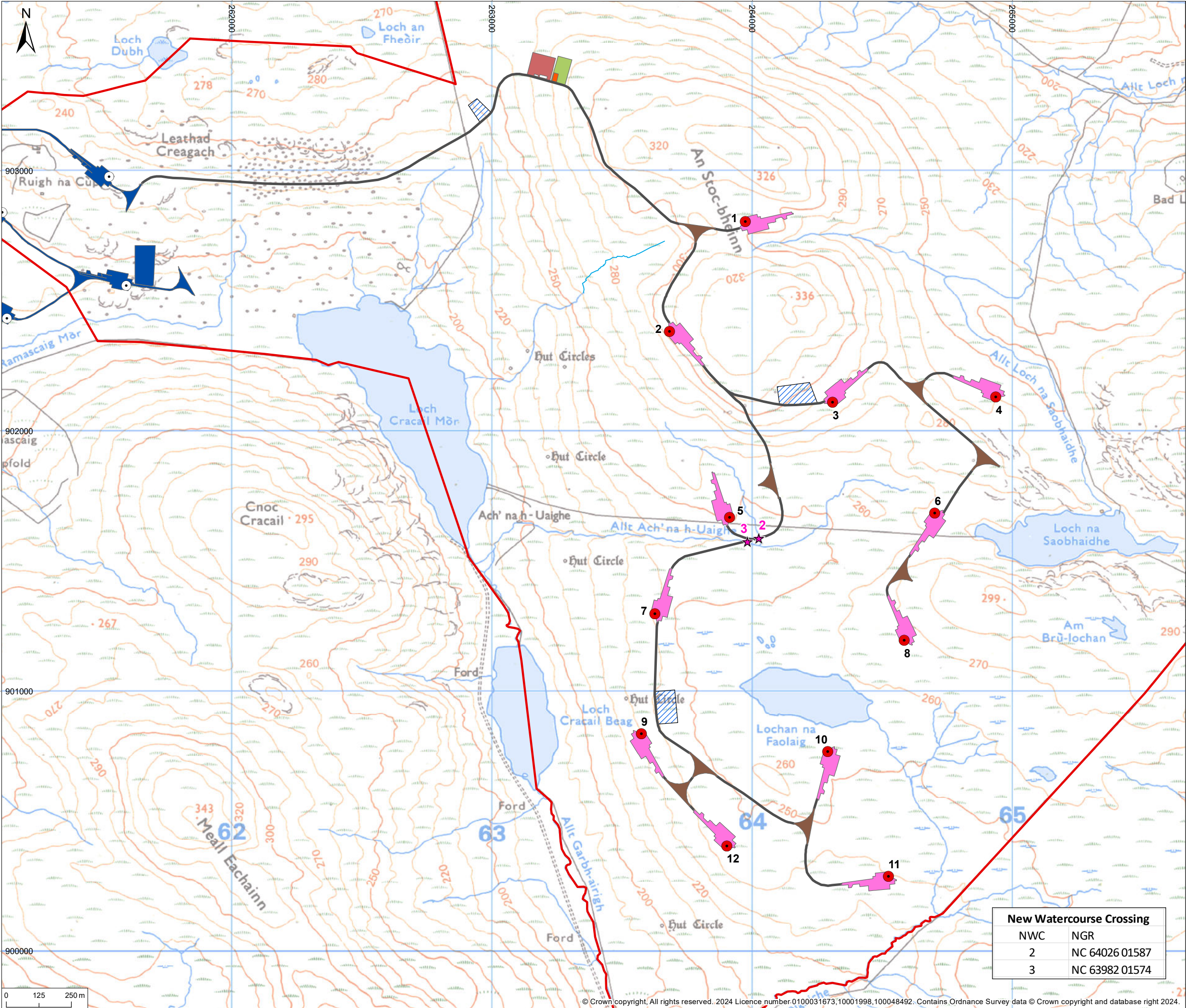
Title

Groundwater Vulnerability

Status	Drawn By	PM/Checked By
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Project Number	Scale @ A3	Date Created
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Figure Number		Rev
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Legend

- Site Boundary
- Turbine Layout
- Site Tracks
- 132kV Substation
- Battery Storage Compound
- Borrow Pit Search
- Crane Pads
- Construction Compound
- Turning Heads
- New Watercourse Crossing (NWC2 & 3)
- Watercourse

Consented Lairg II Wind Farm

- Consented Lairg II Turbine Locations
- Consented Lairg II Infrastructure

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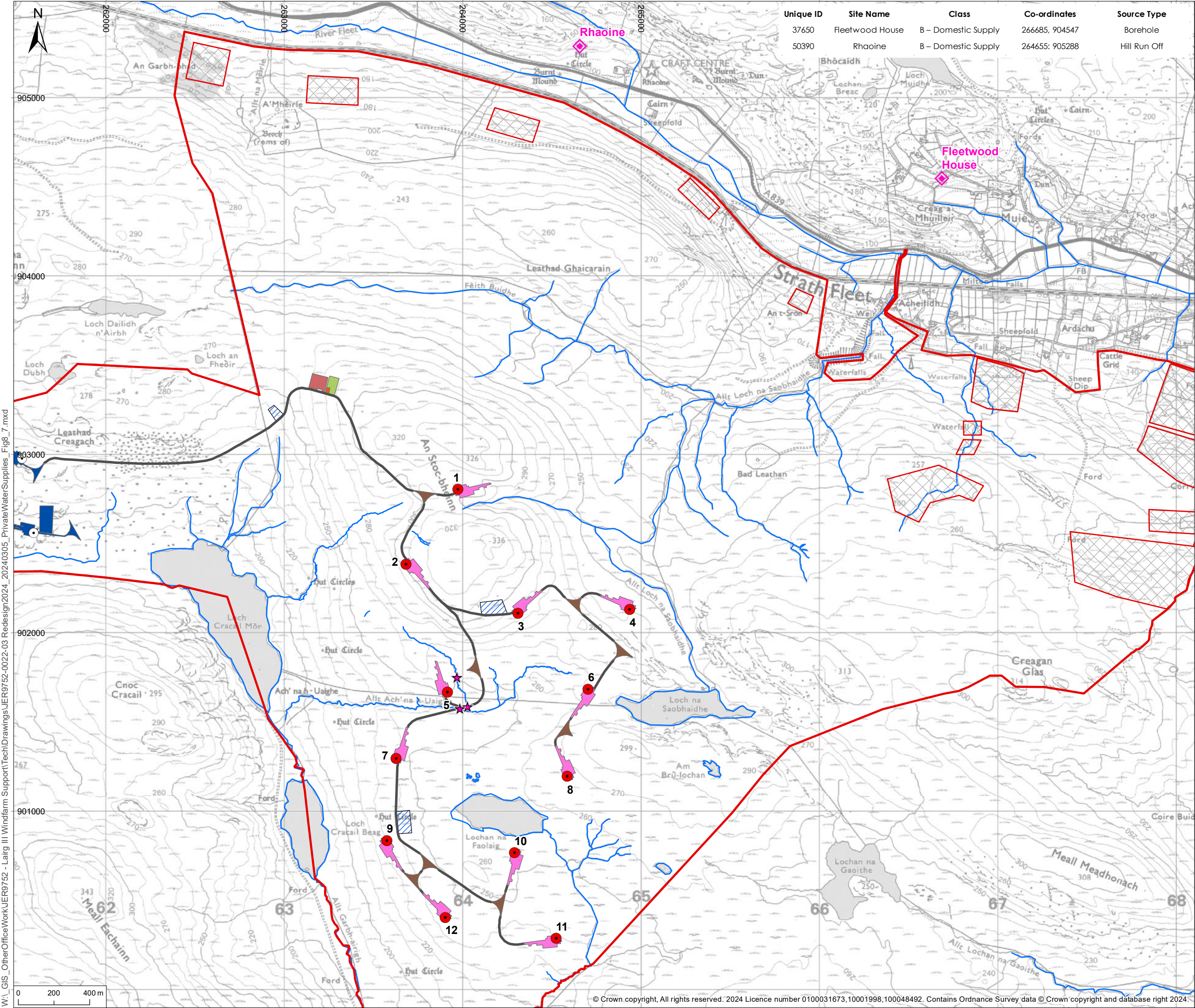
Project Acheilidh Wind Farm

Title Hydrological Features

Status	Drawn By	PM/Checked By
Issue	KAG	SC
Project Number	Scale @ A3	Date Created
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Figure Number		Rev
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New Watercourse Crossing	
NWC	NGR
2	NC 64026 01587
3	NC 63982 01574



Unique ID	Site Name	Class	Co-ordinates	Source Type
37650	Fleetwood House	B – Domestic Supply	266685, 904547	Borehole
50390	Rhaoine	B – Domestic Supply	264655: 905288	Hill Run Off

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Legend

Site Boundary

Excluded Areas

Turbine Layout

Site Tracks

132kV Substation

Battery Storage Compound

Borrow Pit Search Areas

Crane Pads

Construction Compound

Turning Heads

New Watercourse Crossing

Watercourse

Private Water Supplies

Consented Lairg II Wind Farm

Consented Lairg II Turbine Locations

Consented Lairg II Infrastructure

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Acheilidh Wind Farm

Title

Private Water Supplies

Status

Issue

Project Number

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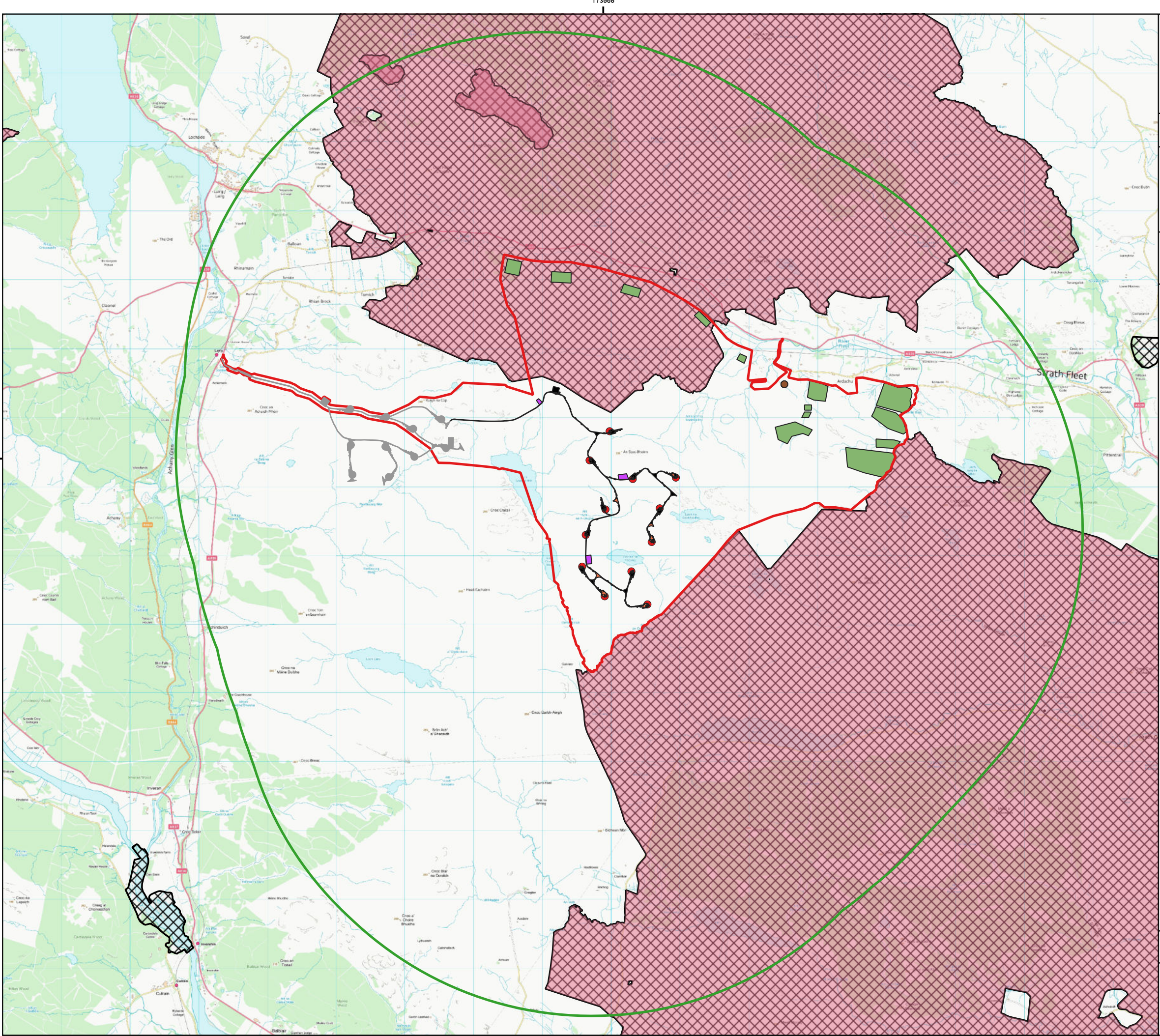
Date Created

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Rev

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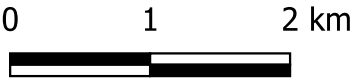


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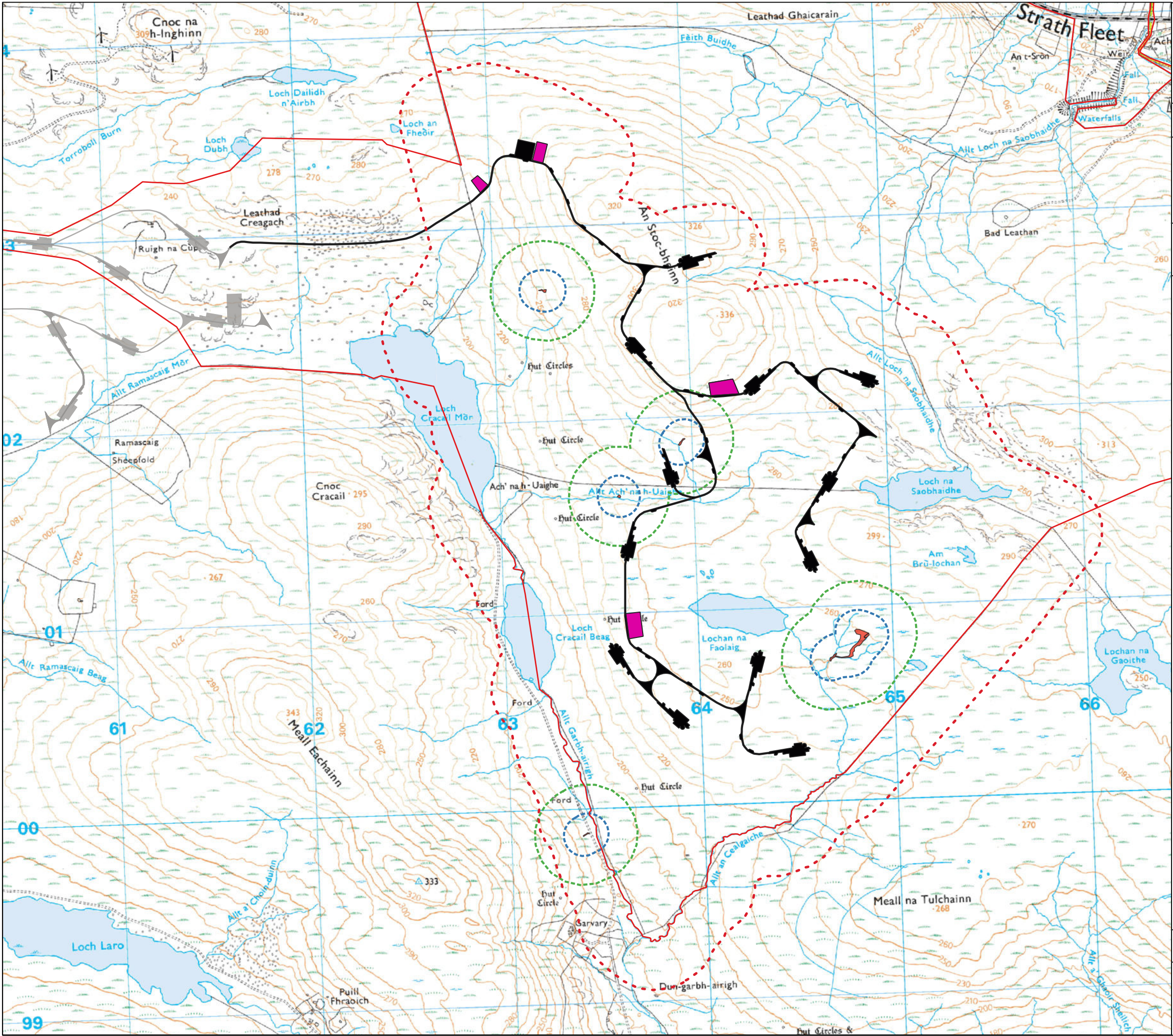
Figure 9.1: Site and Designated Sites

- Key:**
- Acheilidh Site Boundary
 - Designated Site Search Area
 - Special Protected Area
 - Site of Special Scientific Interest



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Figure 9.3: GWDTE locations and buffers

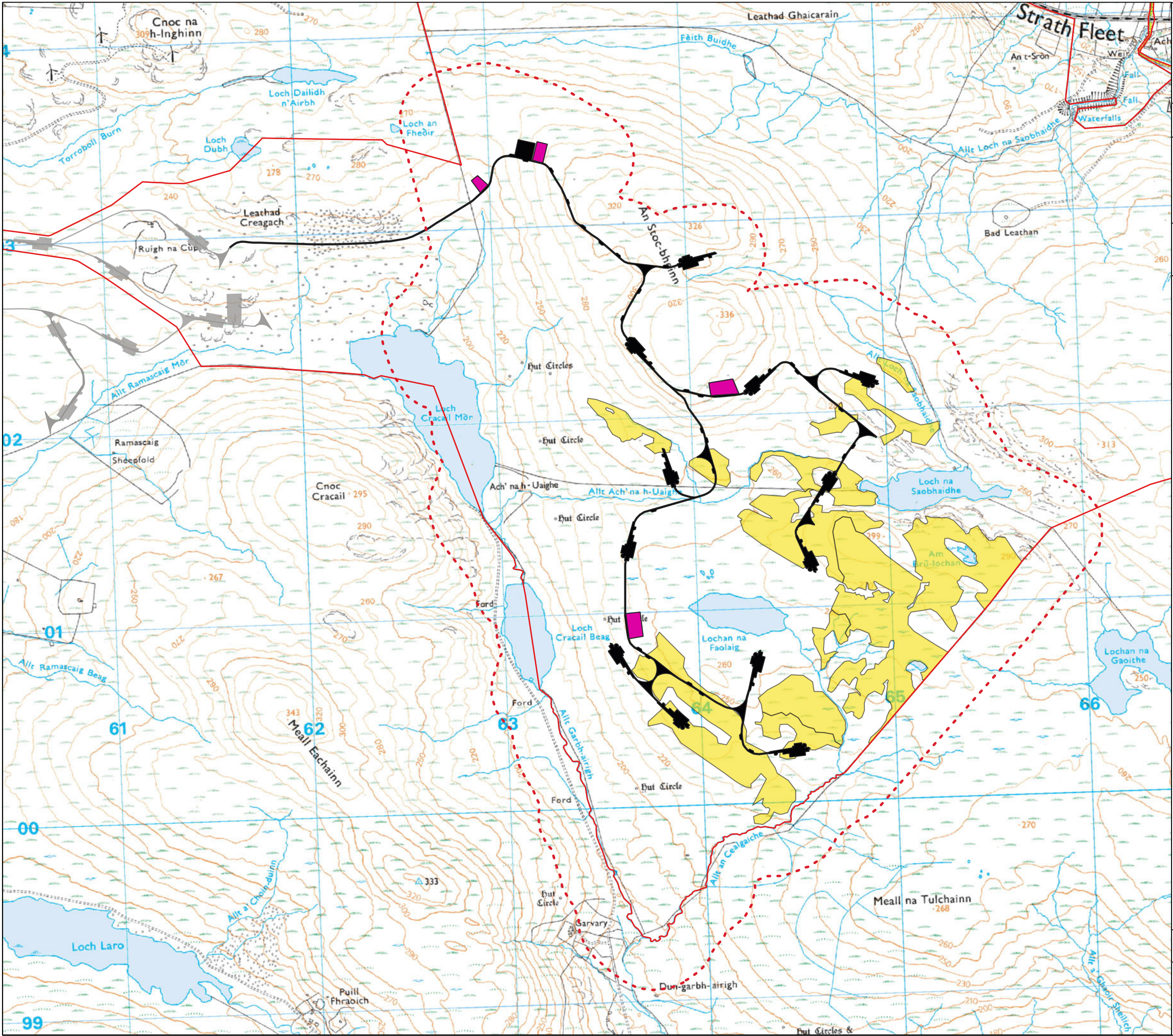
- Key:**
- - - Acheilidh Survey Area
 - ▭ Acheilidh Site Boundary
 - Acheilidh Infrastructure**
 - Permanent
 - Temporary
 - Lairg II Infrastructure
 - GWDTEs
 - 100m GWDTE buffer
 - 250m GWDTE buffer

0 0.25 0.5 km



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Figure 9.4: Potential peatland restoration areas

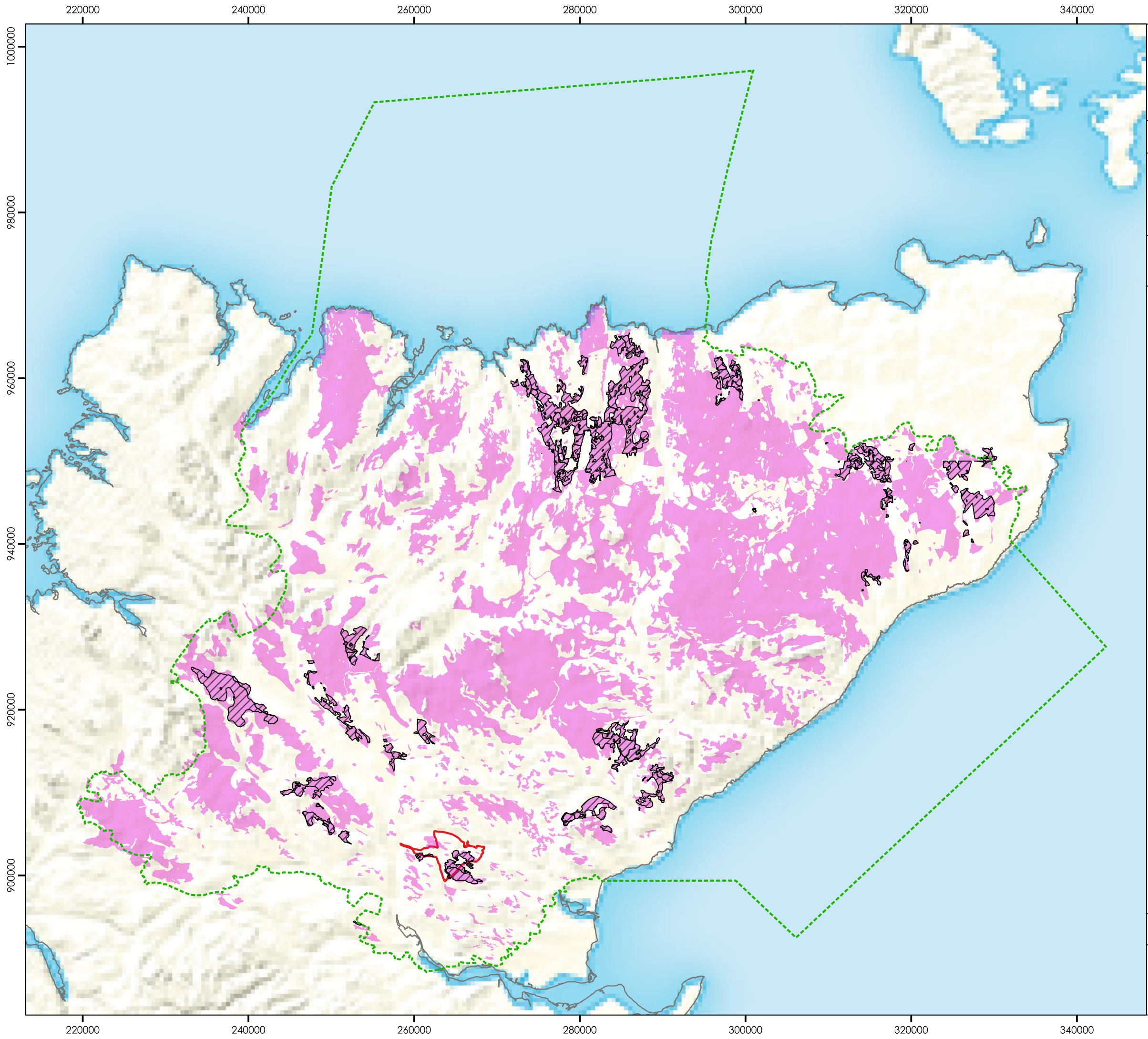
- Key:**
- Potential Peatland Restoration Areas
 - Acheilidh Survey Area
 - Acheilidh Site Boundary
 - Acheilidh Infrastructure**
 - Permanent
 - Temporary
 - Lairg II Infrastructure

0 0.25 0.5 km



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Figure 9.5: Cumulative impact on Class 1 peatlands

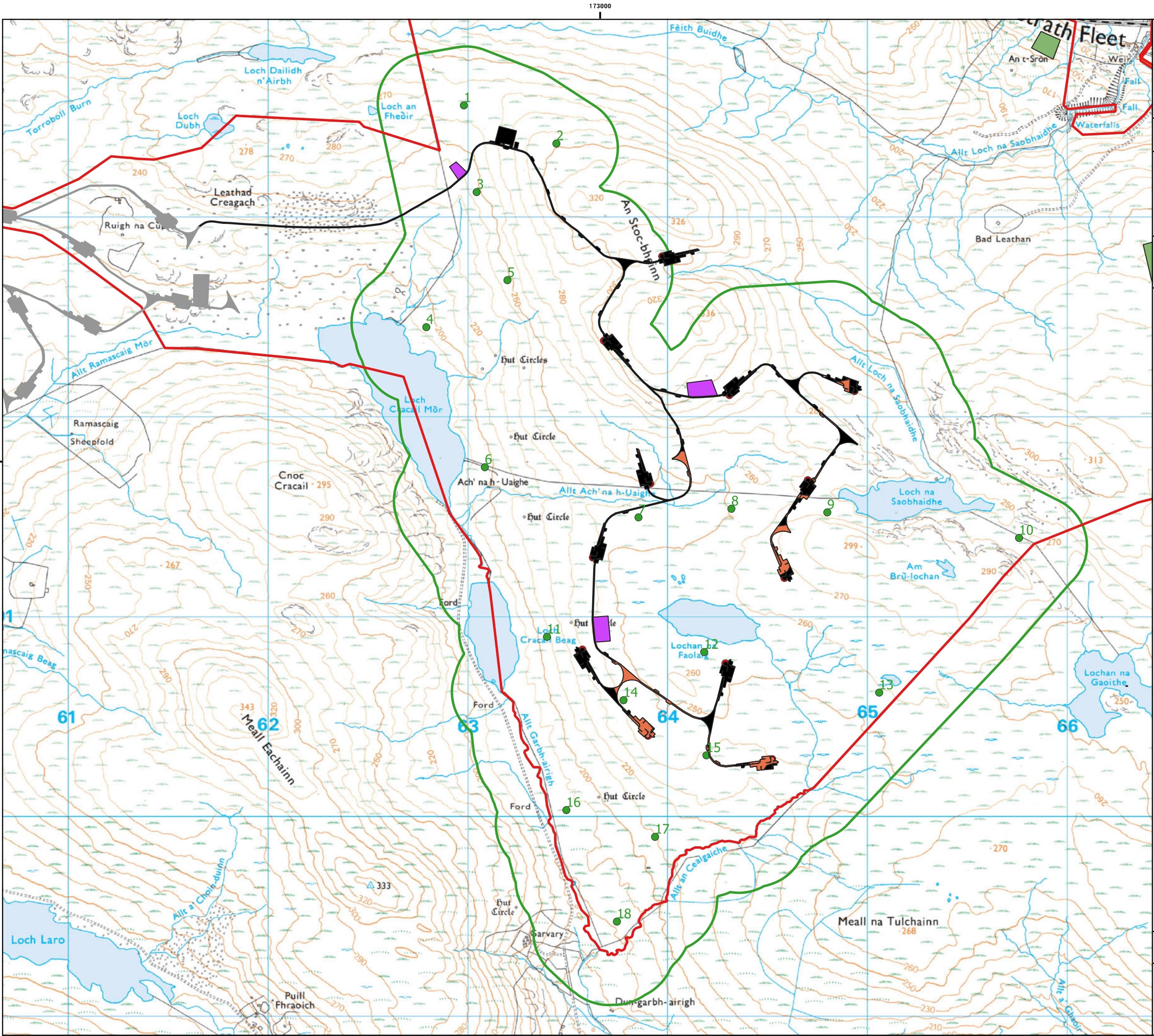
- Key:**
- Acheilidh Site Boundary
 - Class 1 peatlands
 - Class 1 peatlands with wind turbines - including all hydrologically connected areas
 - Caithness and Sutherland Natural Heritage Zone (NHZ)

0 10 20 km



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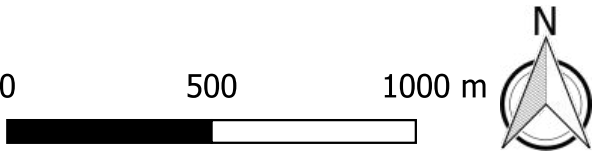
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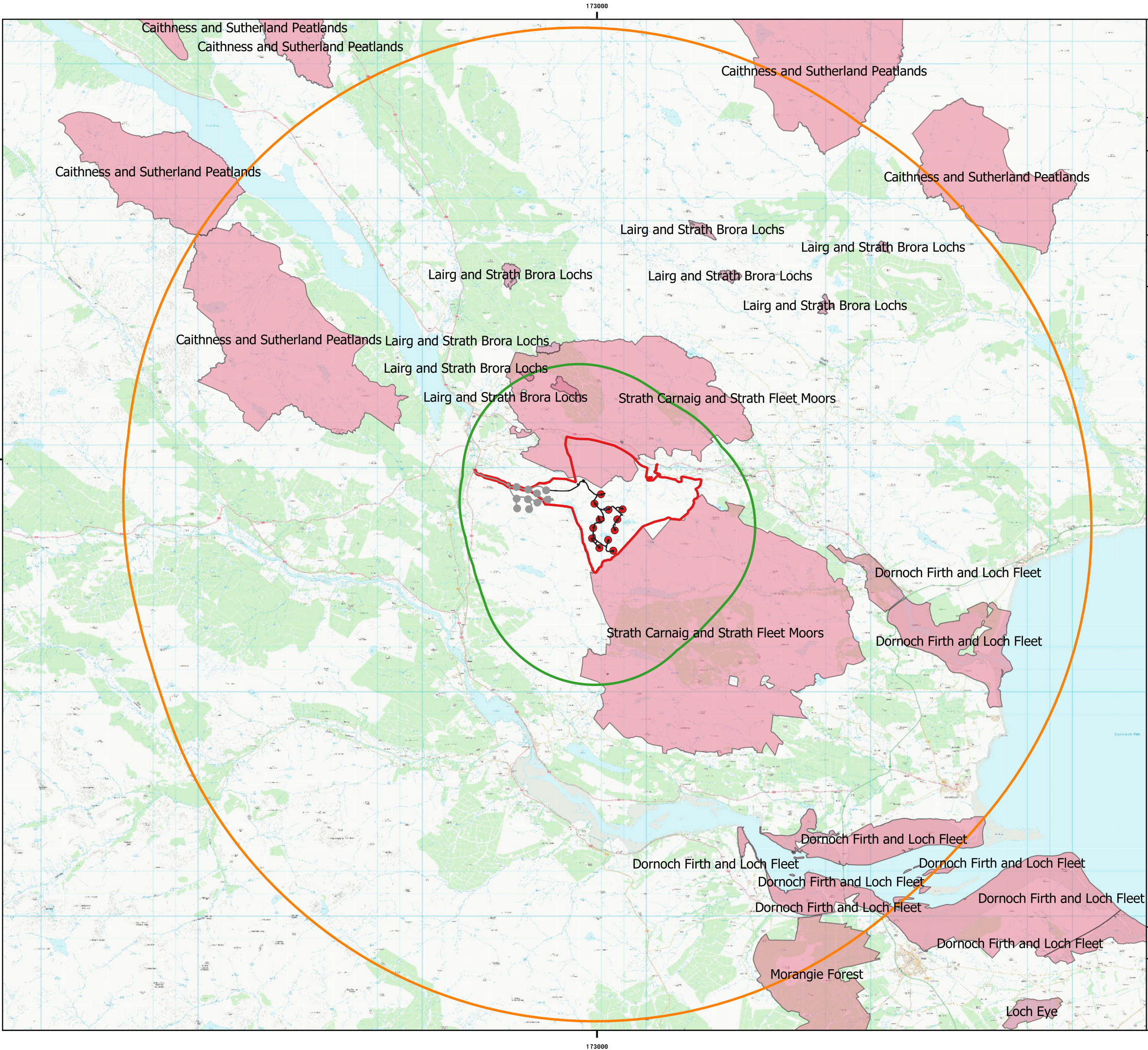
Figure 9.6: Static Bat Detector Locations

- Key:**
- Acheilidh Site Boundary
 - Ecology Survey Area
 - Turbine
 - Permanent Infrastructure
 - Temporary Infrastructure
 - Bat Detector Locations
 - Lairg II Wind Farm



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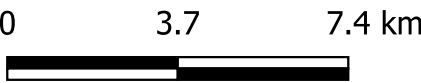


Acheilidh Wind Farm

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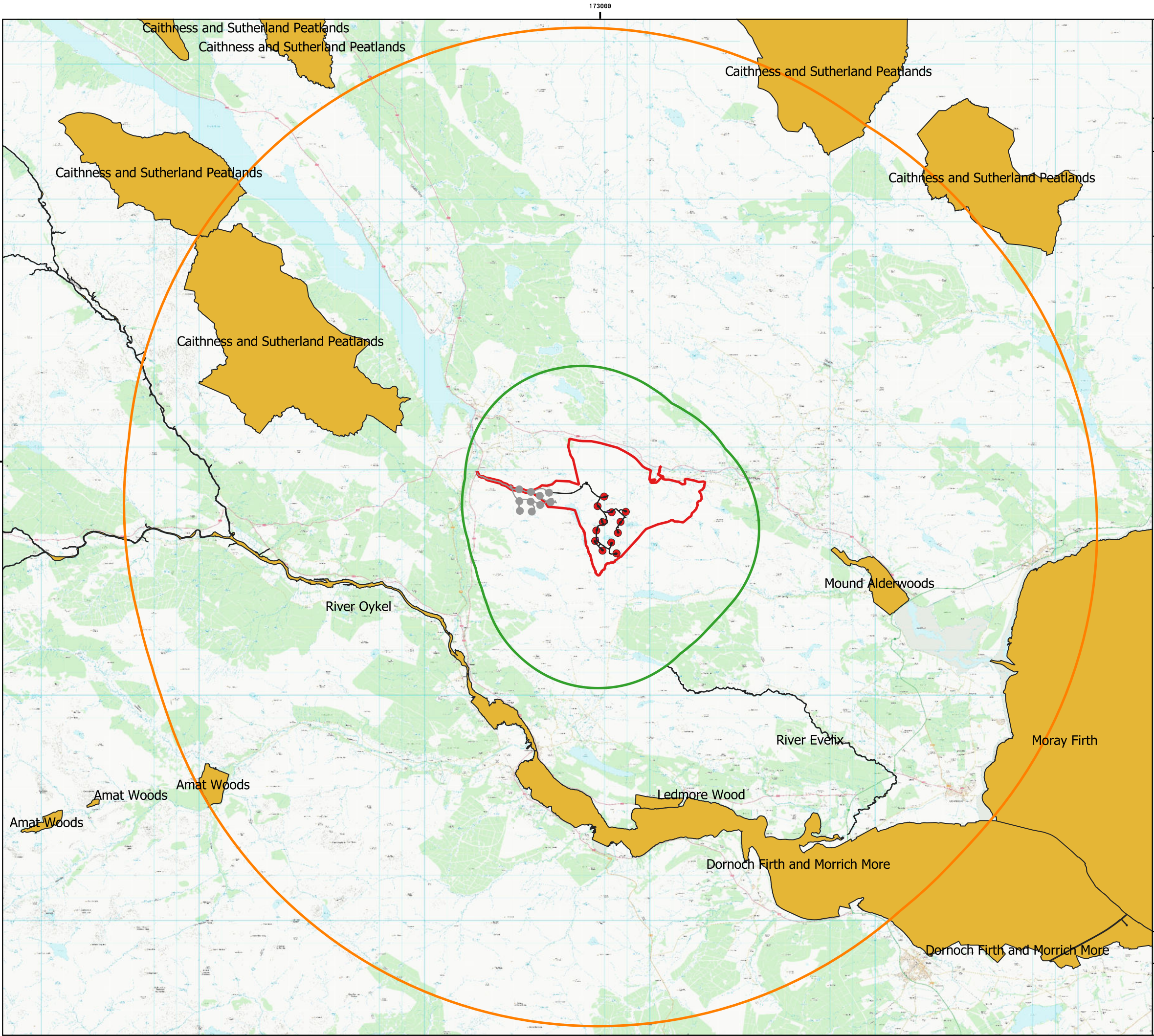
Figure 10.1a: Special Protection Areas

- Key:**
- Acheilidh Site Boundary
 - Turbine
 - Permanent Infrastructure
 - Temporary Infrastructure
 - Lairg II Wind Farm
 - Special Protection Area
 - 5km Designated Site Search Area
 - 20km Designated Site Search Area



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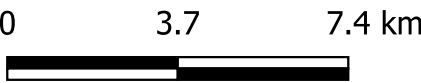


Acheilidh Wind Farm

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www.energiekontor.co.uk		

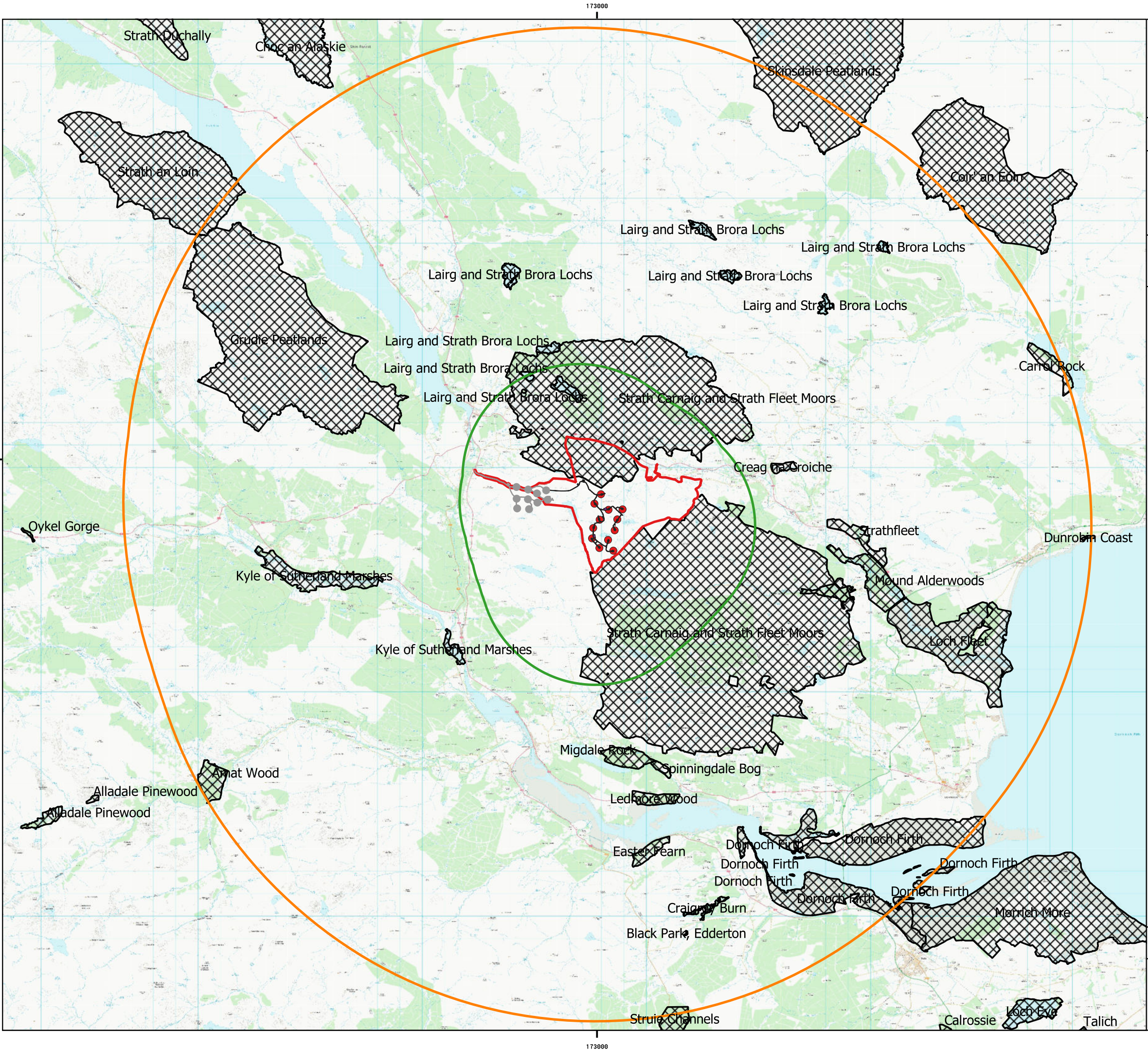
Figure 10.1b: Special Areas of Conservation

- Key:**
- Acheilidh Site Boundary
 - Turbine
 - Permanent Infrastructure
 - Temporary Infrastructure
 - Lairg II Wind Farm
 - Special Area of Conservation
 - 5km Designated Site Search Area
 - 20km Designated Site Search Area



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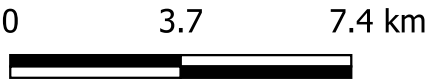
Acheilidh Wind Farm

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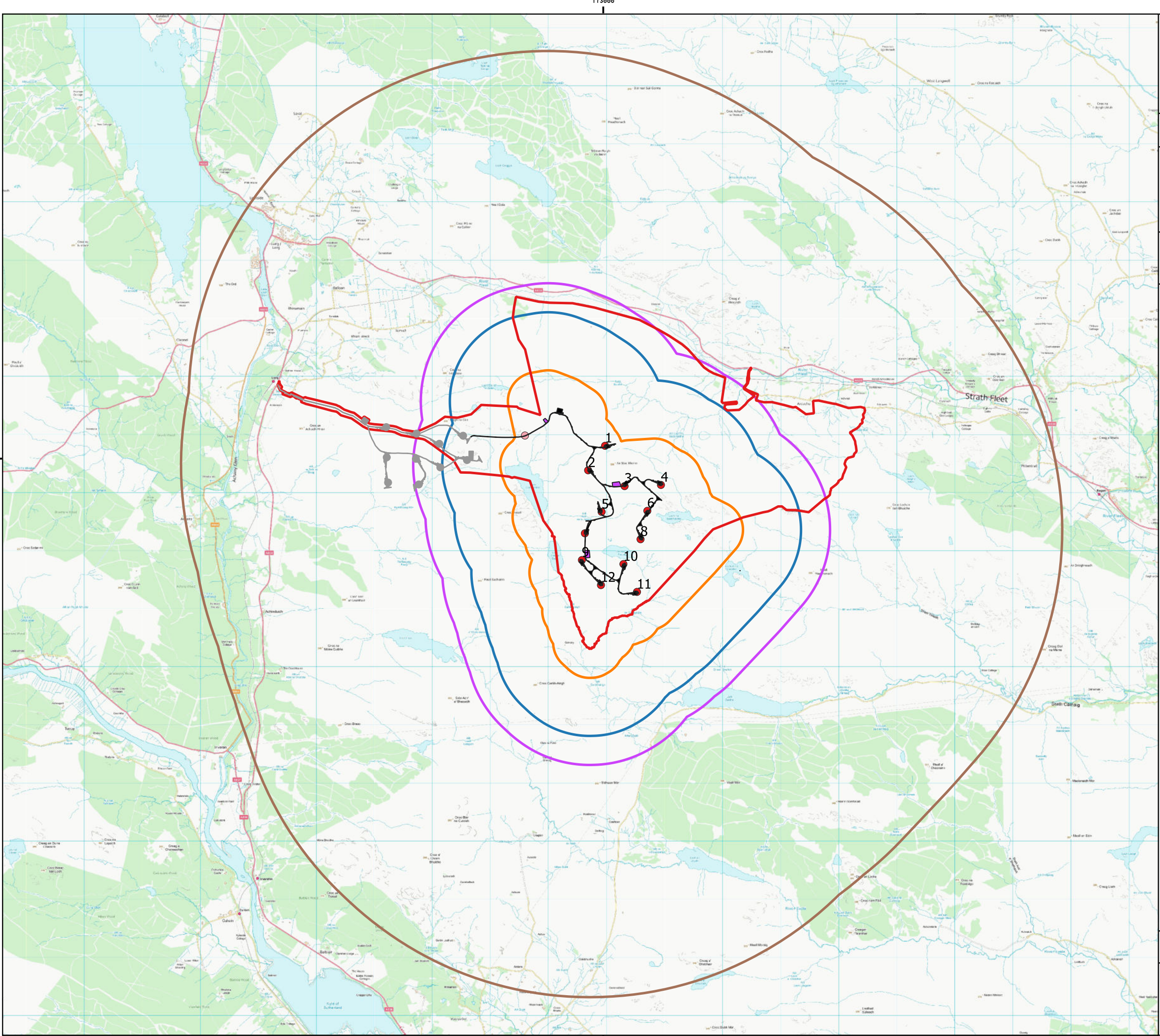
Figure 10.1c: Sites of Special Scientific Interest

- Key:**
- Acheilidh Site Boundary
 - Turbine
 - Permanent Infrastructure
 - Temporary Infrastructure
 - Lairg II Wind Farm
 - Site of Special Scientific Interest
 - 5km Designated Site Search Area
 - 20km Designated Site Search Area



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Figure 10.2: Ornithology Survey Areas

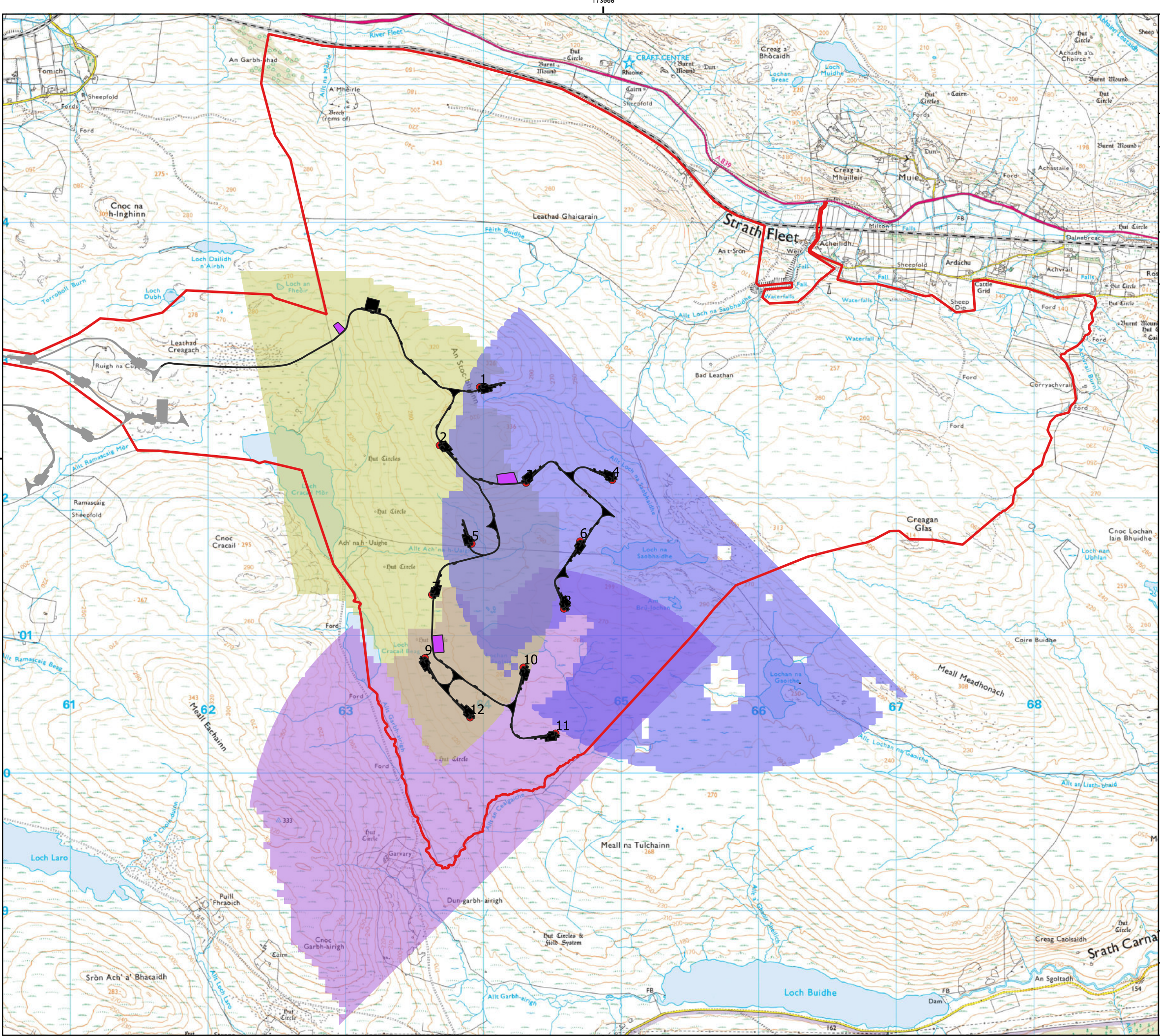
- Key:**
- Acheilidh Site Boundary
 - Turbine
 - Permanent Infrastructure
 - Temporary Infrastructure
 - Lairg II Wind Farm
 - Breeding Bird Survey Area
 - Black Grouse Survey Area
 - Raptor and Diver Survey Area
 - Eagle Survey Area

0 1 2 km



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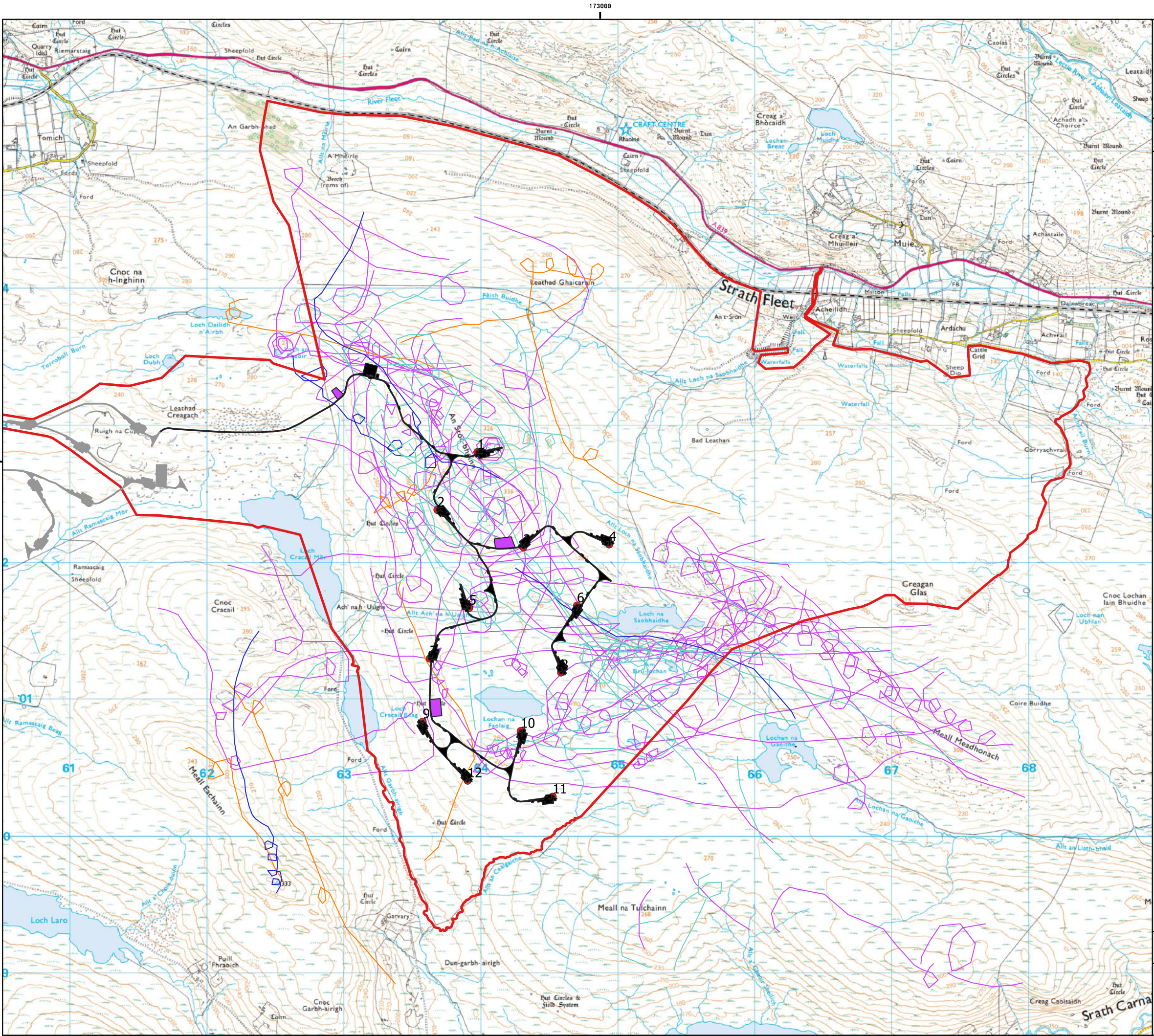
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Figure 10.3: Vantage Point Viewsheds

- Key:**
- Acheilidh Site Boundary
 - Turbine
 - Permanent Infrastructure
 - Temporary Infrastructure
 - Lairg II Wind Farm
 - VP1 Viewshed
 - VP2 Viewshed
 - VP3 Viewshed



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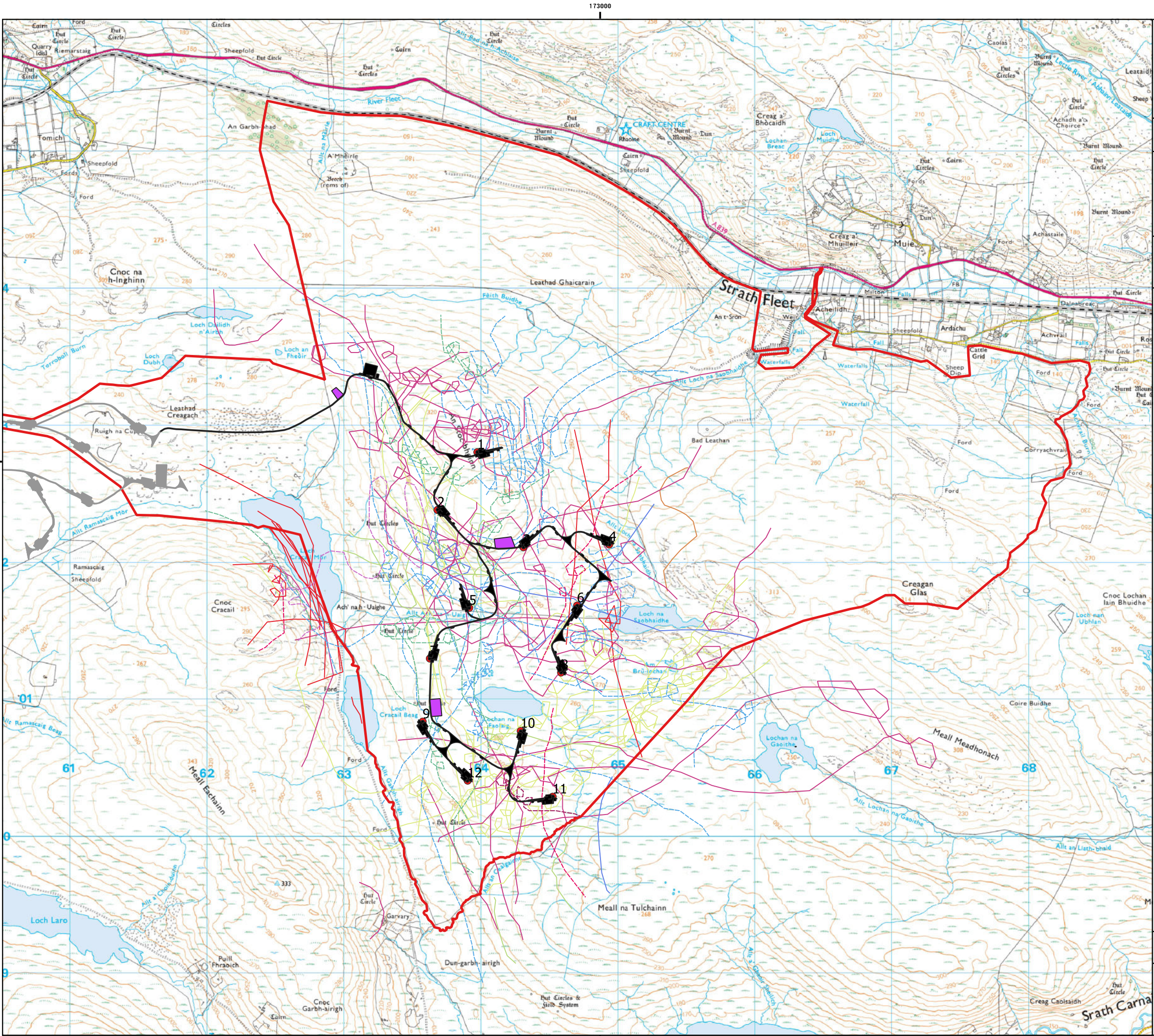
Figure 10.4a: Eagle Flight Activity

- Key:**
- Acheilidh Site Boundary
 - Turbine
 - Permanent Infrastructure
 - Temporary Infrastructure
 - Lairg II Wind Farm
- Target Spp Flights year 1**
- Golden eagle
 - White-tailed eagle
- Target Spp Flights year 2**
- Golden eagle
 - White-tailed eagle



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Figure 10.4b: Other Raptor Species Flight Activity

- Key:**
- Acheilidh Site Boundary
 - Turbine
 - Permanent Infrastructure
 - Temporary Infrastructure
 - Lairg II Wind Farm

Target Spp Flights year 1

- Hen harrier
- Red kite
- Merlin
- Osprey
- Peregrine
- Short-eared owl

Target Spp Flights year 2

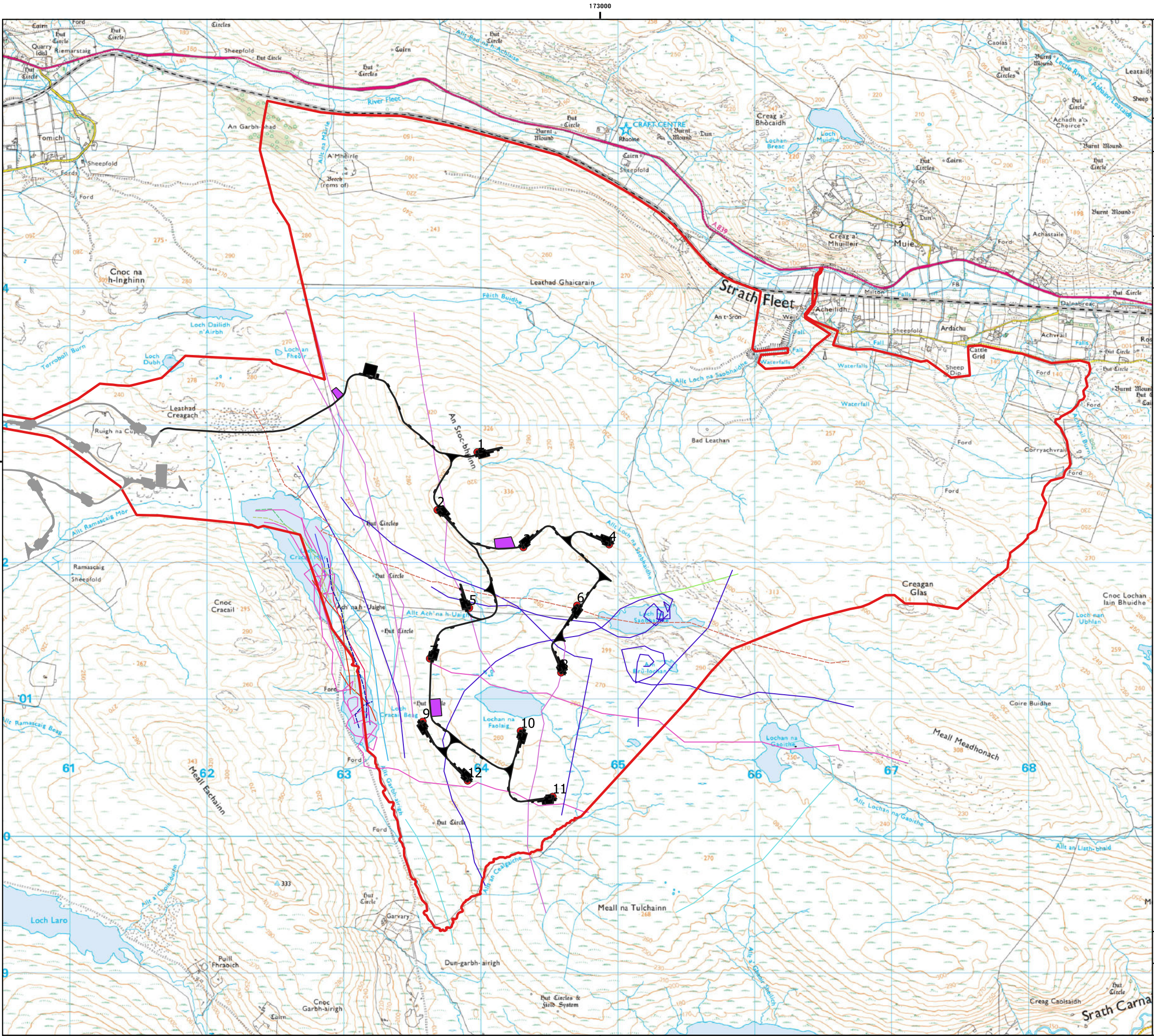
- Red kite
- Merlin
- Peregrine
- Hen harrier
- Short-eared owl

0 0.7 1.4 km



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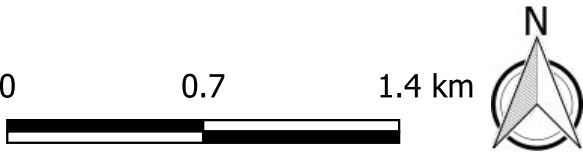
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Figure 10.4c: Diver and Wildfowl Species Flight Activity

- Key:**
- Acheilidh Site Boundary
 - Turbine
 - Permanent Infrastructure
 - Temporary Infrastructure
 - Lairg II Wind Farm

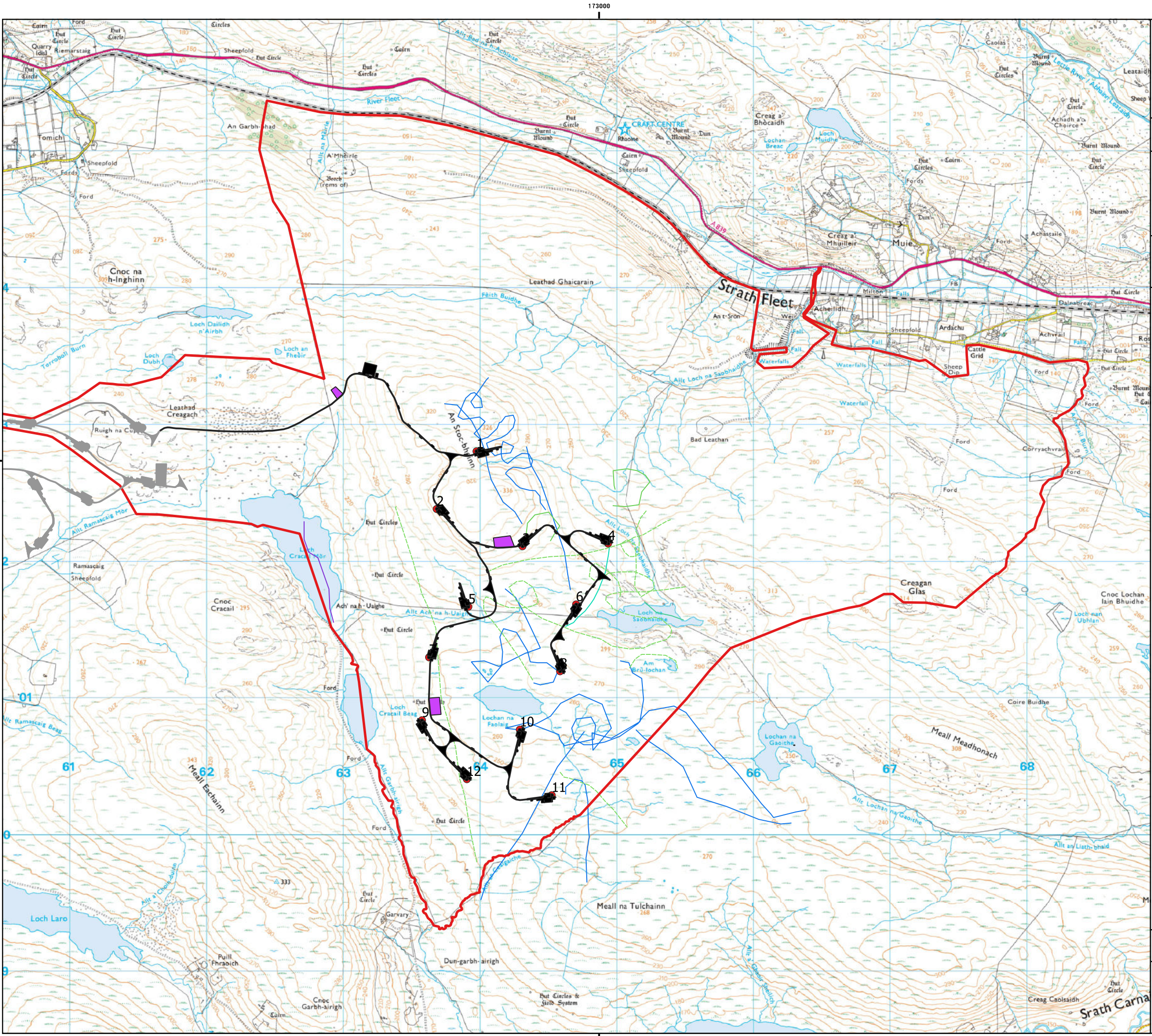
- Target Spp Flights year 1**
- Black-throated diver
 - Greylag goose
 - Goldeneye
 - Mallard
 - Pink-footed goose
 - Red-throated diver
 - Red breasted merganser
 - Teal
 - Tufted duck
 - Whooper swan

- Target Spp Flights year 2**
- Goldeneye
 - Tufted duck
 - Whooper swan
 - Mallard



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Figure 10.4d: Wader Flight Activity

- Key:**
- Acheilidh Site Boundary
 - Turbine
 - Permanent Infrastructure
 - Temporary Infrastructure
 - Lairg II Wind Farm

Target Spp Flights year 1

- Common sandpiper
- Greenshank
- Golden plover
- Lapwing
- Snipe

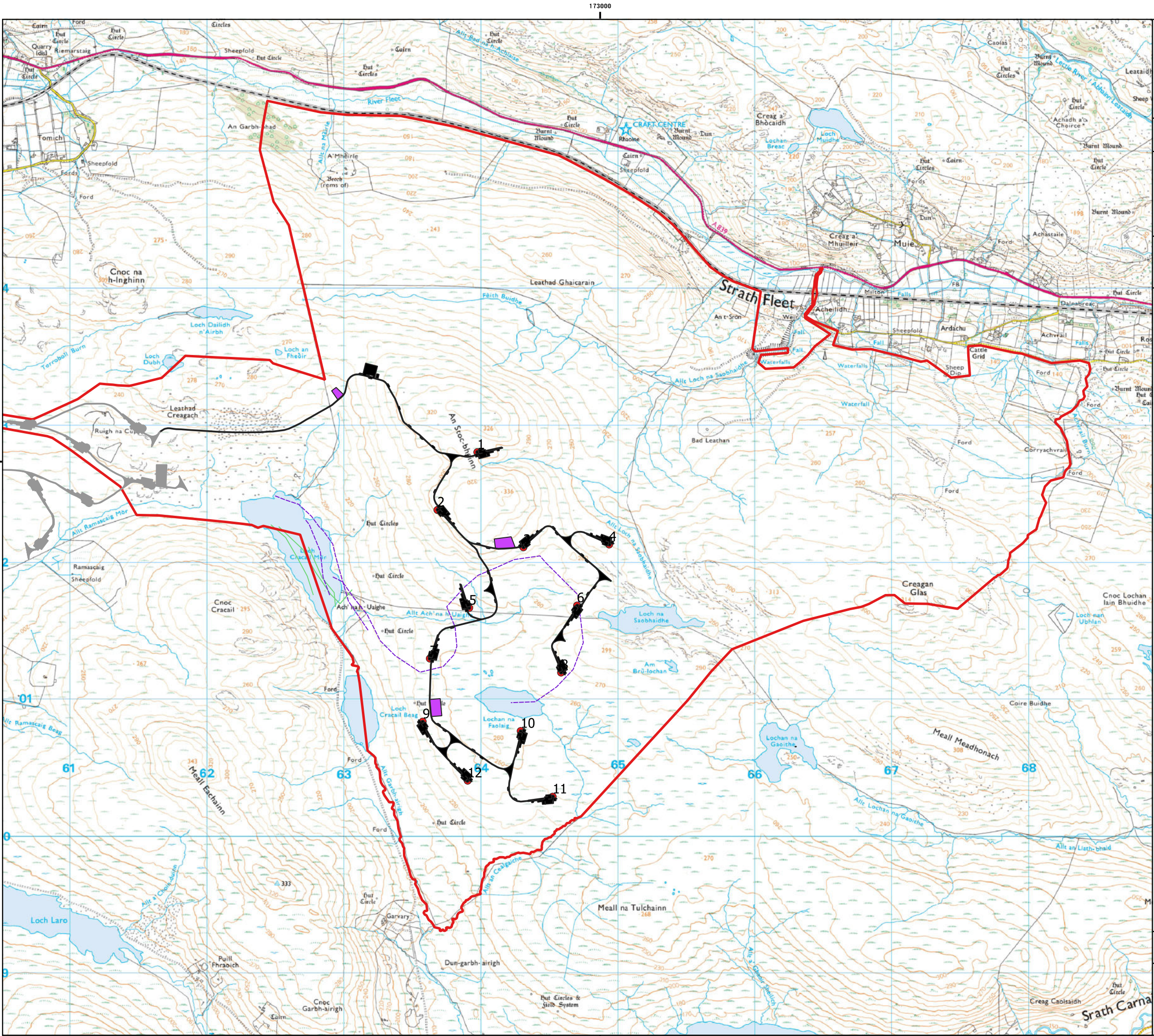
Target Spp Flights year 2

- Golden plover

0 0.7 1.4 km

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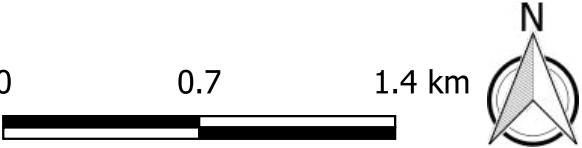
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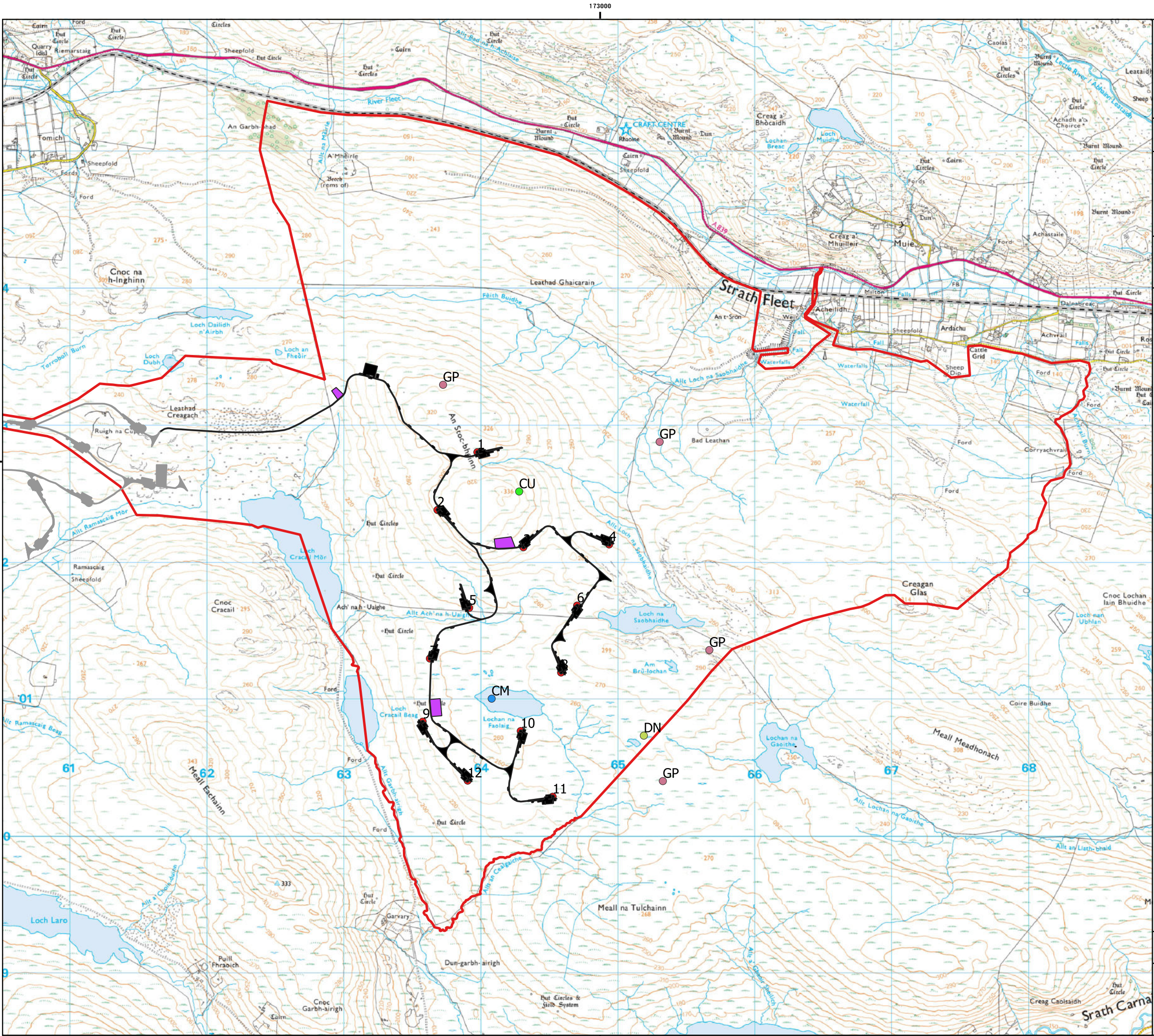
Figure 10.4e: Other Species Flight Activity

- Key:**
- Acheilidh Site Boundary
 - Turbine
 - Permanent Infrastructure
 - Temporary Infrastructure
 - Lairg II Wind Farm
- Target Spp Flights year 1**
- Grey heron
- Target Spp Flights year 2**
- Cormorant



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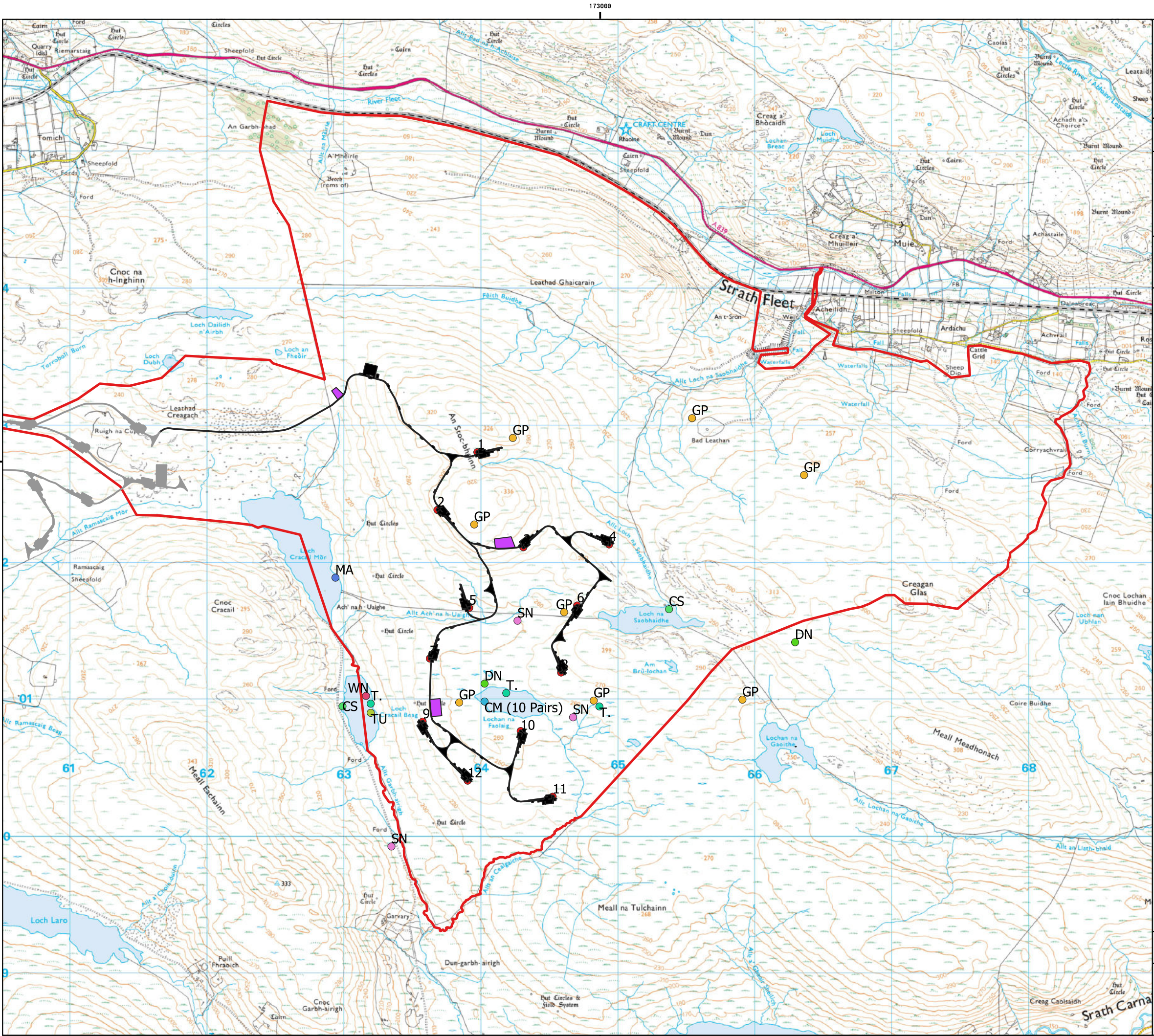
Figure 10.5a: 2021 Breeding Bird Territories

- Key:**
- Acheilidh Site Boundary
 - Turbine
 - Permanent Infrastructure
 - Temporary Infrastructure
 - Lairg II Wind Farm
- Bird Constraints2021**
- CM Common gull (12 pairs)
 - CU Curlew
 - DN Dunlin
 - GP Golden plover



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Figure 10.5b: 2022 Breeding Bird Territories

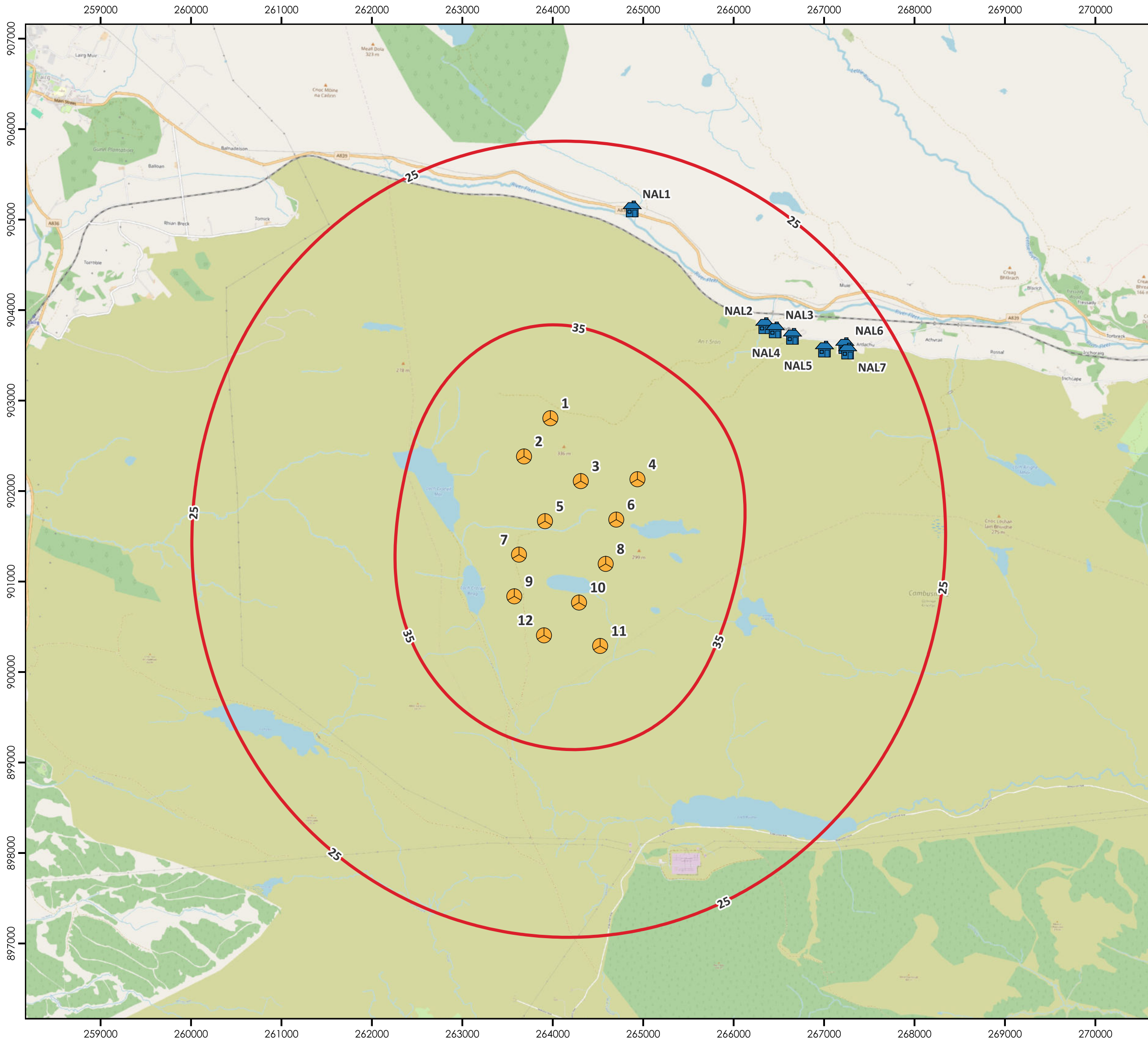
- Key:**
- Acheilidh Site Boundary
 - Turbine
 - Permanent Infrastructure
 - Temporary Infrastructure
 - Lairg II Wind Farm

- Bird Constraints2022**
- CM Common gull (10 Pairs)
 - CS Common sandpiper
 - DN Dunlin
 - GP Golden plover
 - MA Mallard
 - SN Snipe
 - T. Teal
 - TU Tufted duck
 - WN Wigeon



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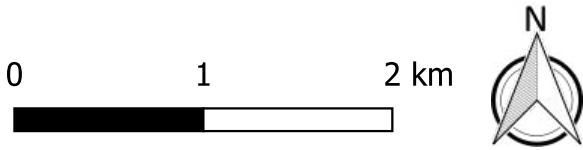


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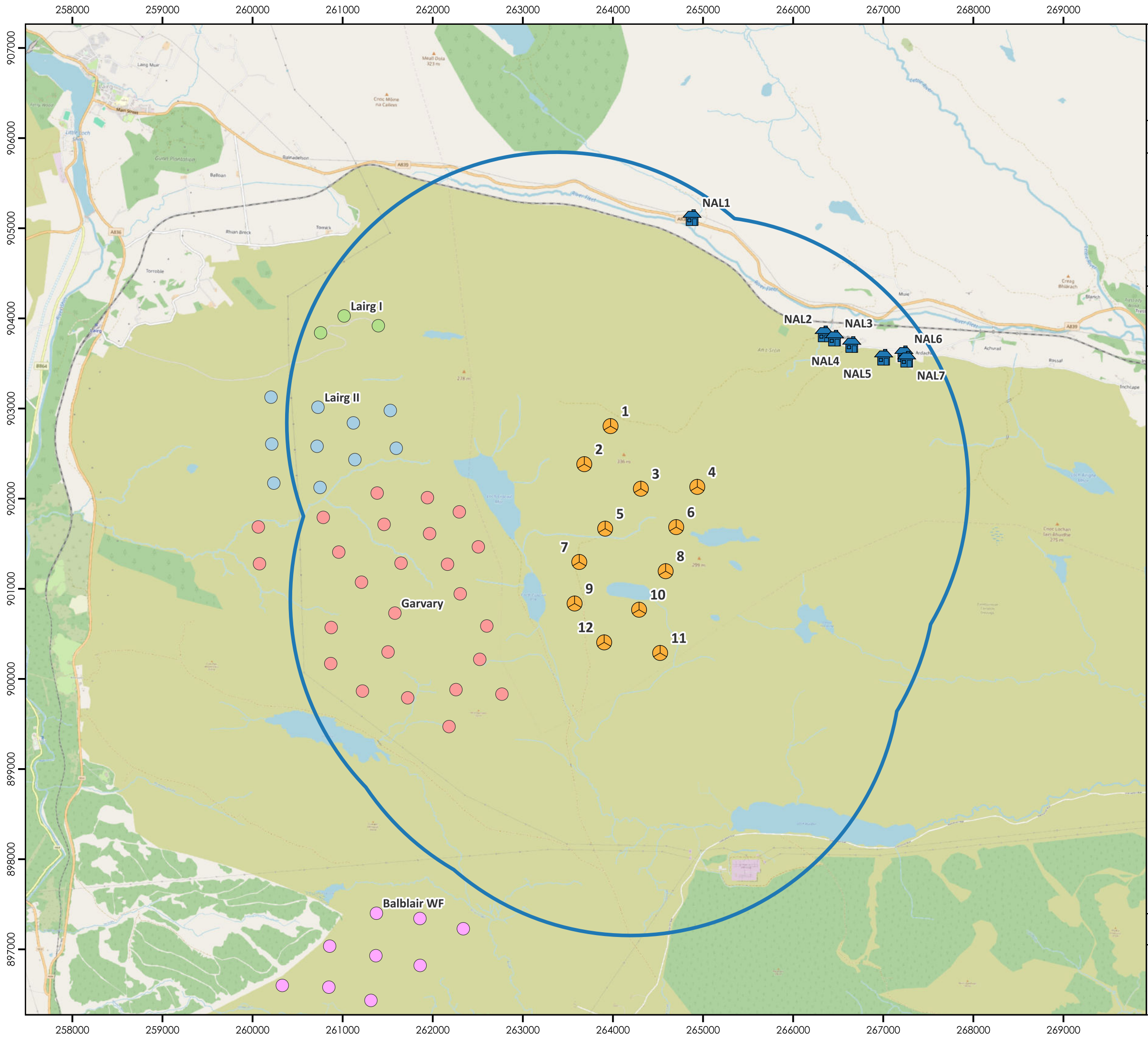
Figure 11.1: Noise Study Area

- Key:**
- Proposed Development
 - Noise Assessment Locations
 - LA90 iso-contour at 25dB(A) & 35dB(A) calculated for V10 = 9m/s



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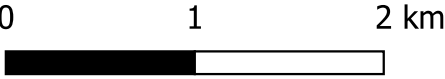


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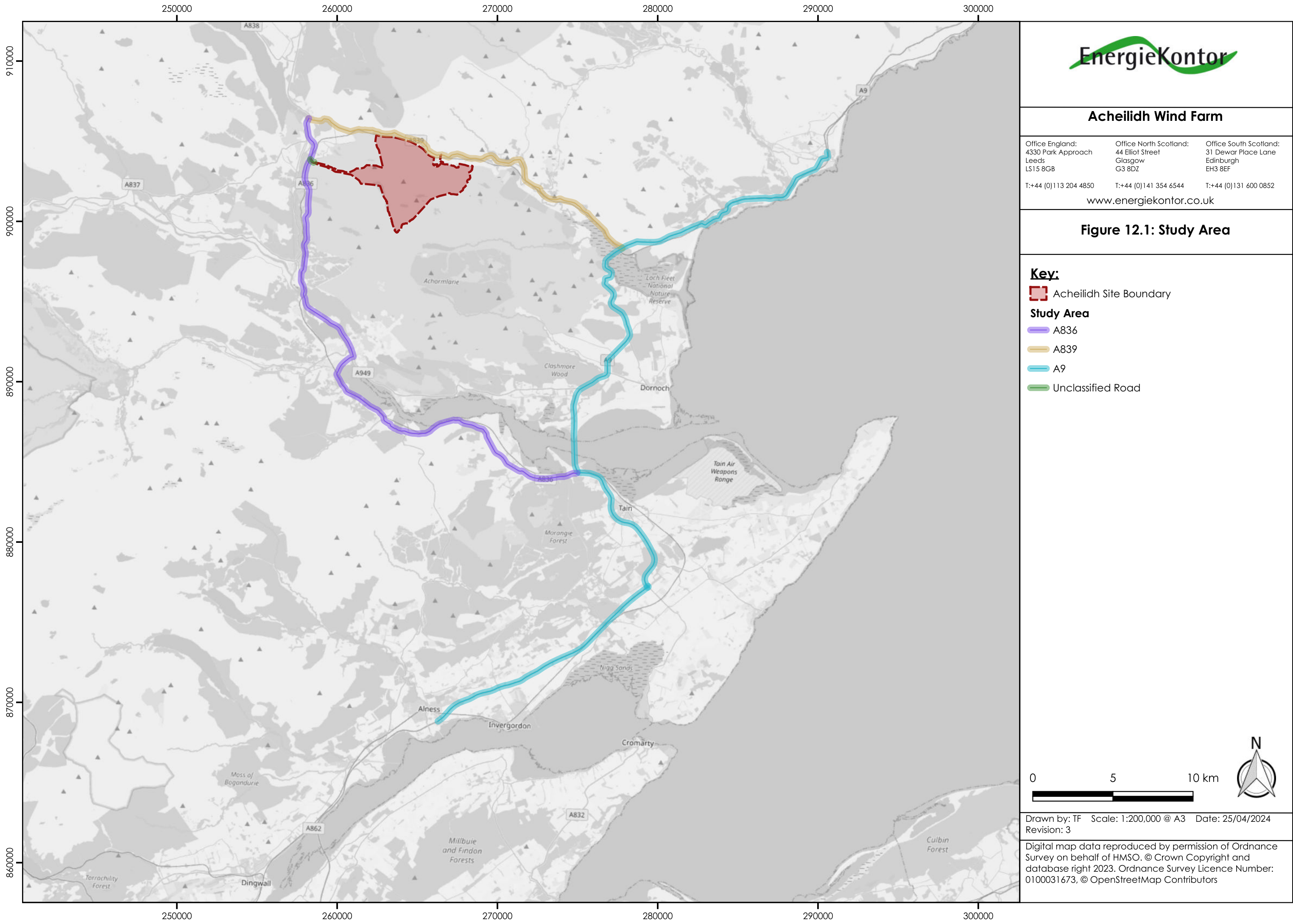
Figure 11.2: Cumulative Study Area

- Key:**
- Proposed Development
 - NALs
 - 3km Search Buffer
 - Third-party Developments**
 - Lairg II WF Turbines
 - Lairg WF Turbines
 - Garvary WF Turbines
 - Balblair WF Coords



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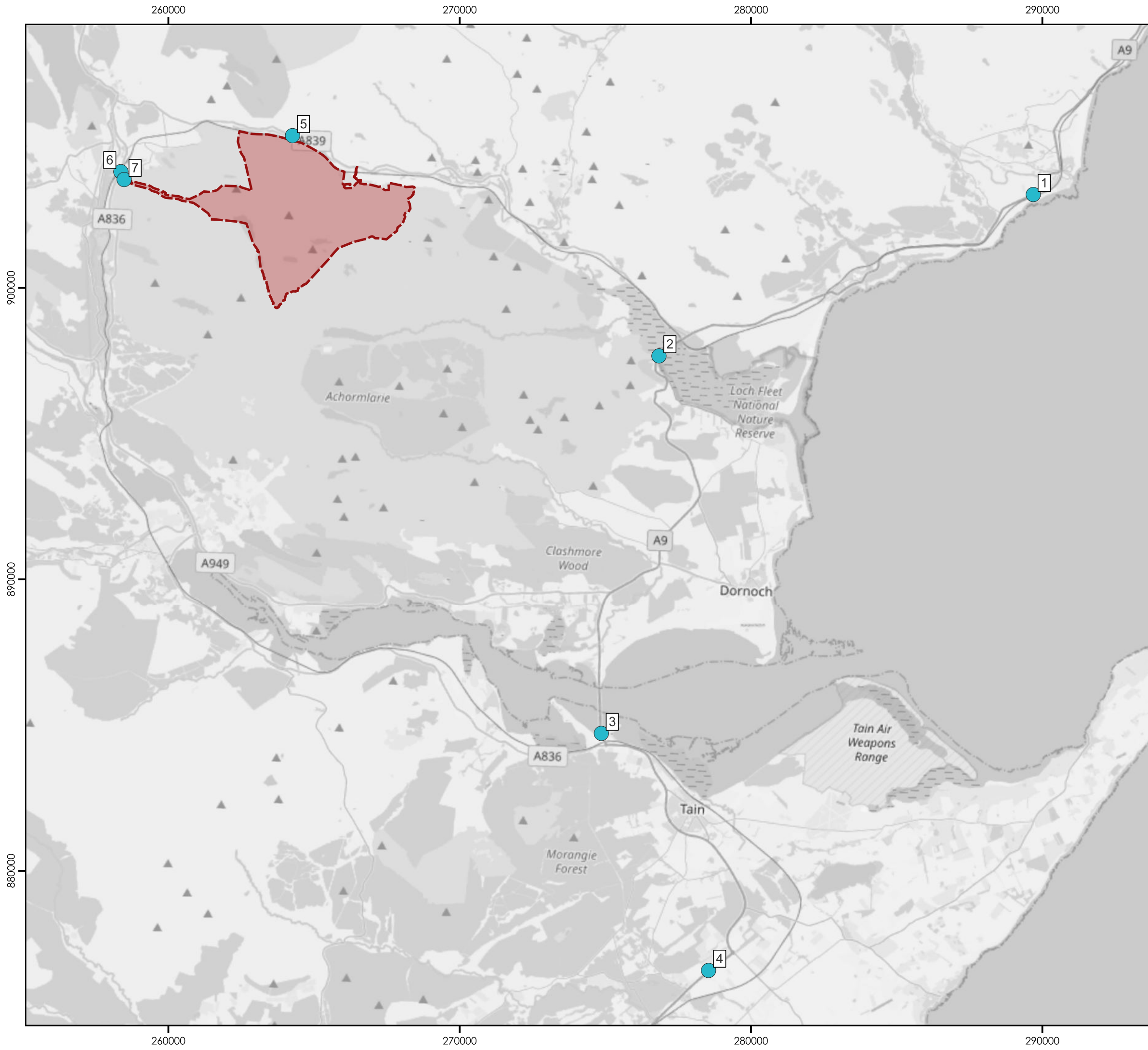
Office England: 4330 Park Approach Leeds LS15 8GB	Office North Scotland: 44 Elliot Street Glasgow G3 8DZ	Office South Scotland: 31 Dewar Place Lane Edinburgh EH3 8EF
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Figure 12.1: Study Area

- Key:**
- Acheilidh Site Boundary
 - Study Area**
 - A836
 - A839
 - A9
 - Unclassified Road

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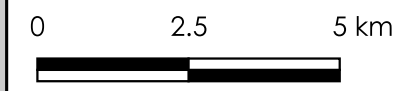
Acheilidh Wind Farm

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Figure 12.2: Traffic Counter Locations

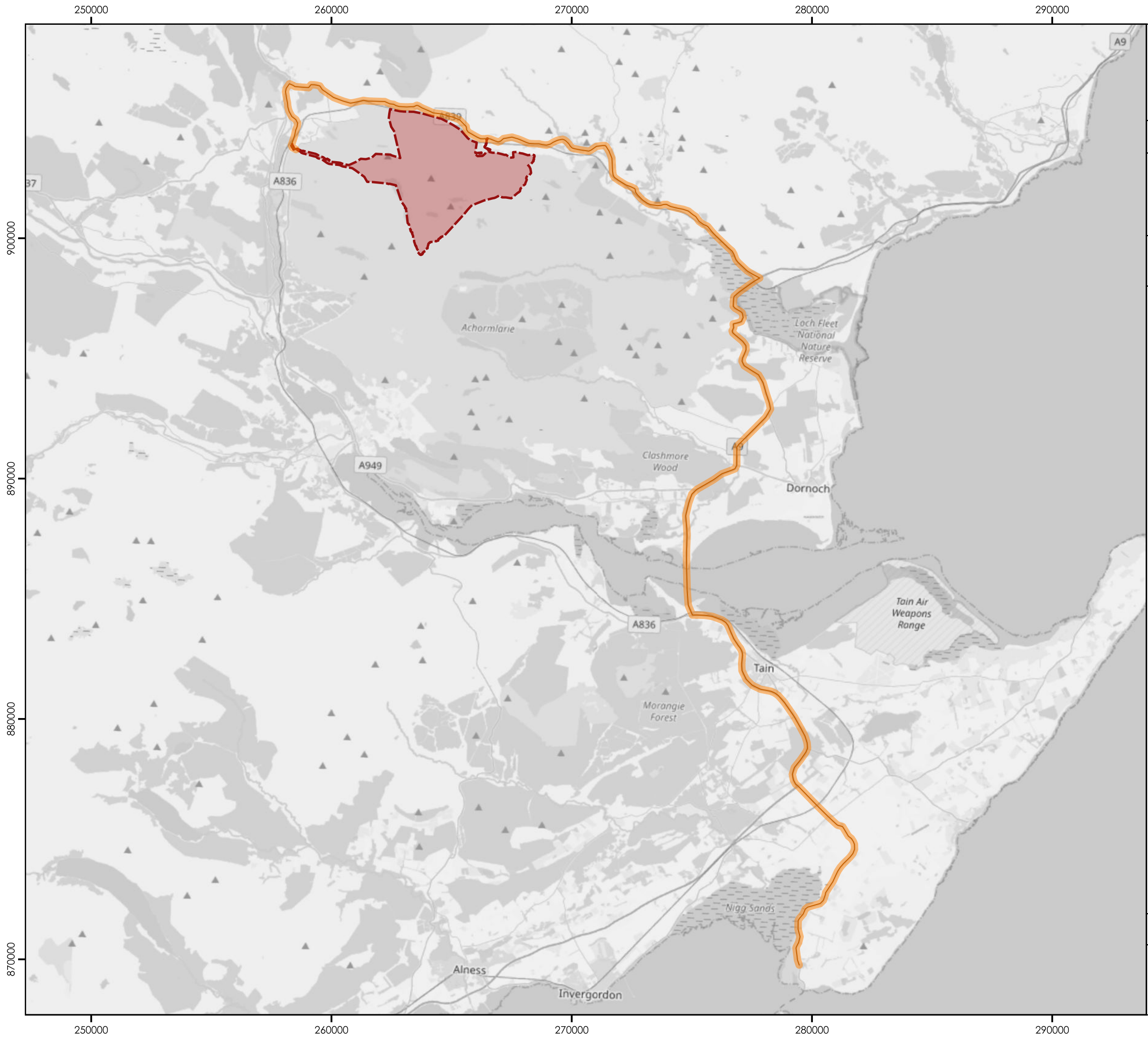
Key:

-  Acheilidh Site Boundary
-  Traffic Counters



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Revision: 2

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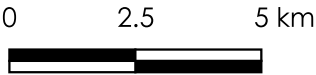


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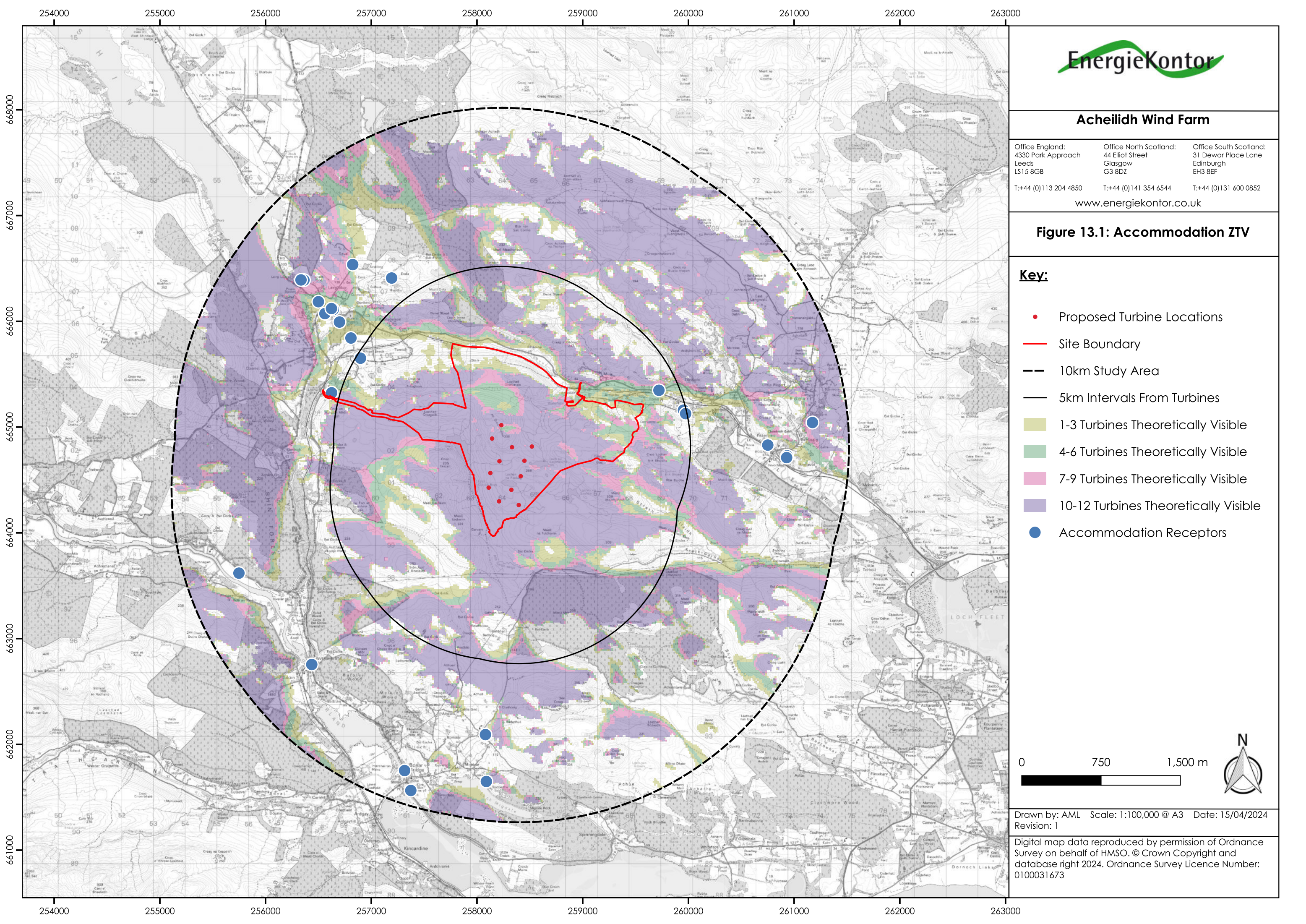
Figure 12.3: Abnormal Loads Route

- Key:**
-  Acheilidh Site Boundary
 -  Abnormal Loads Route



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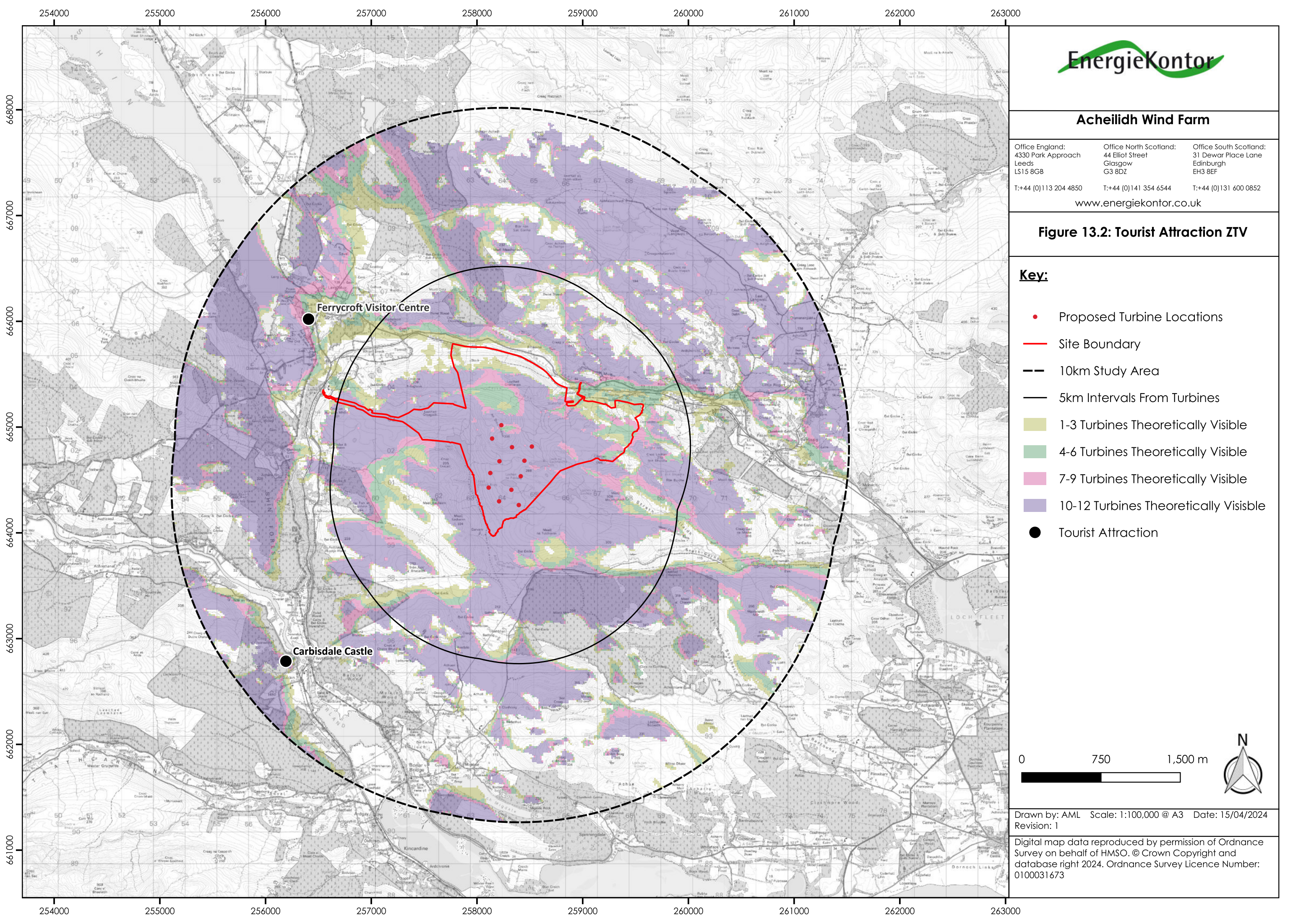
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Figure 13.1: Accommodation ZTV

- Key:**
- Proposed Turbine Locations
 - Site Boundary
 - 10km Study Area
 - 5km Intervals From Turbines
 - 1-3 Turbines Theoretically Visible
 - 4-6 Turbines Theoretically Visible
 - 7-9 Turbines Theoretically Visible
 - 10-12 Turbines Theoretically Visible
 - Accommodation Receptors

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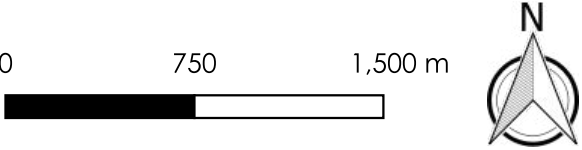


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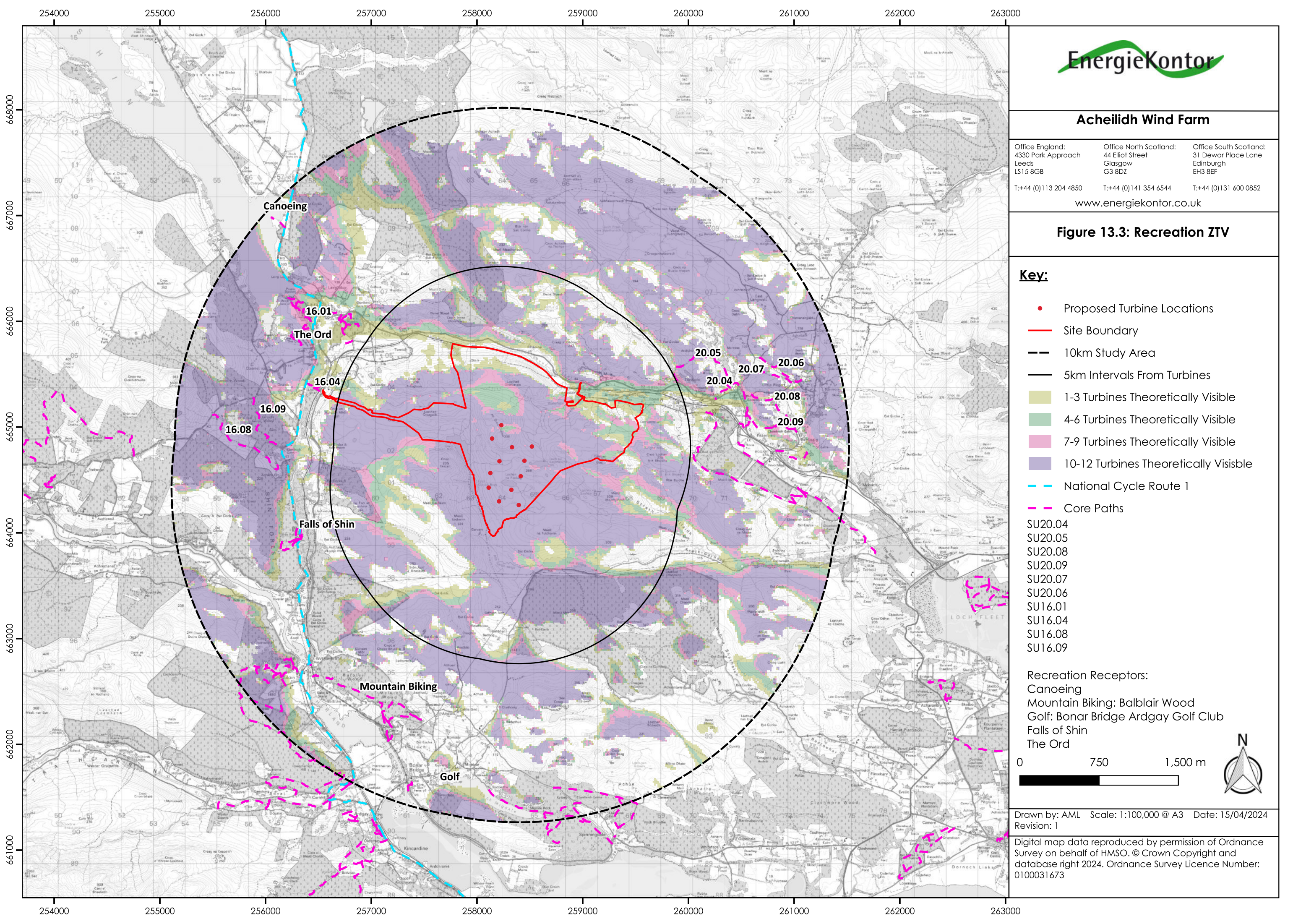
Figure 13.2: Tourist Attraction ZTV

- Key:**
- Proposed Turbine Locations
 - Site Boundary
 - - - 10km Study Area
 - 5km Intervals From Turbines
 - 1-3 Turbines Theoretically Visible
 - 4-6 Turbines Theoretically Visible
 - 7-9 Turbines Theoretically Visible
 - 10-12 Turbines Theoretically Visible
 - Tourist Attraction



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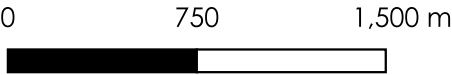
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Figure 13.3: Recreation ZTV

- Key:**
- Proposed Turbine Locations
 - Site Boundary
 - 10km Study Area
 - 5km Intervals From Turbines
 - 1-3 Turbines Theoretically Visible
 - 4-6 Turbines Theoretically Visible
 - 7-9 Turbines Theoretically Visible
 - 10-12 Turbines Theoretically Visible
 - National Cycle Route 1
 - Core Paths
- SU20.04
SU20.05
SU20.08
SU20.09
SU20.07
SU20.06
SU16.01
SU16.04
SU16.08
SU16.09

Recreation Receptors:
Canoeing
Mountain Biking: Balblair Wood
Golf: Bonar Bridge Ardgay Golf Club
Falls of Shin
The Ord



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