



## **Cloich Forest Wind Farm**

Volume 2a – SEI Report Figures excluding LVIA

November 2022

# CLOICH FOREST WIND FARM

## SEI Report – Volume 2a – SEI Report Figures Excluding LVIA

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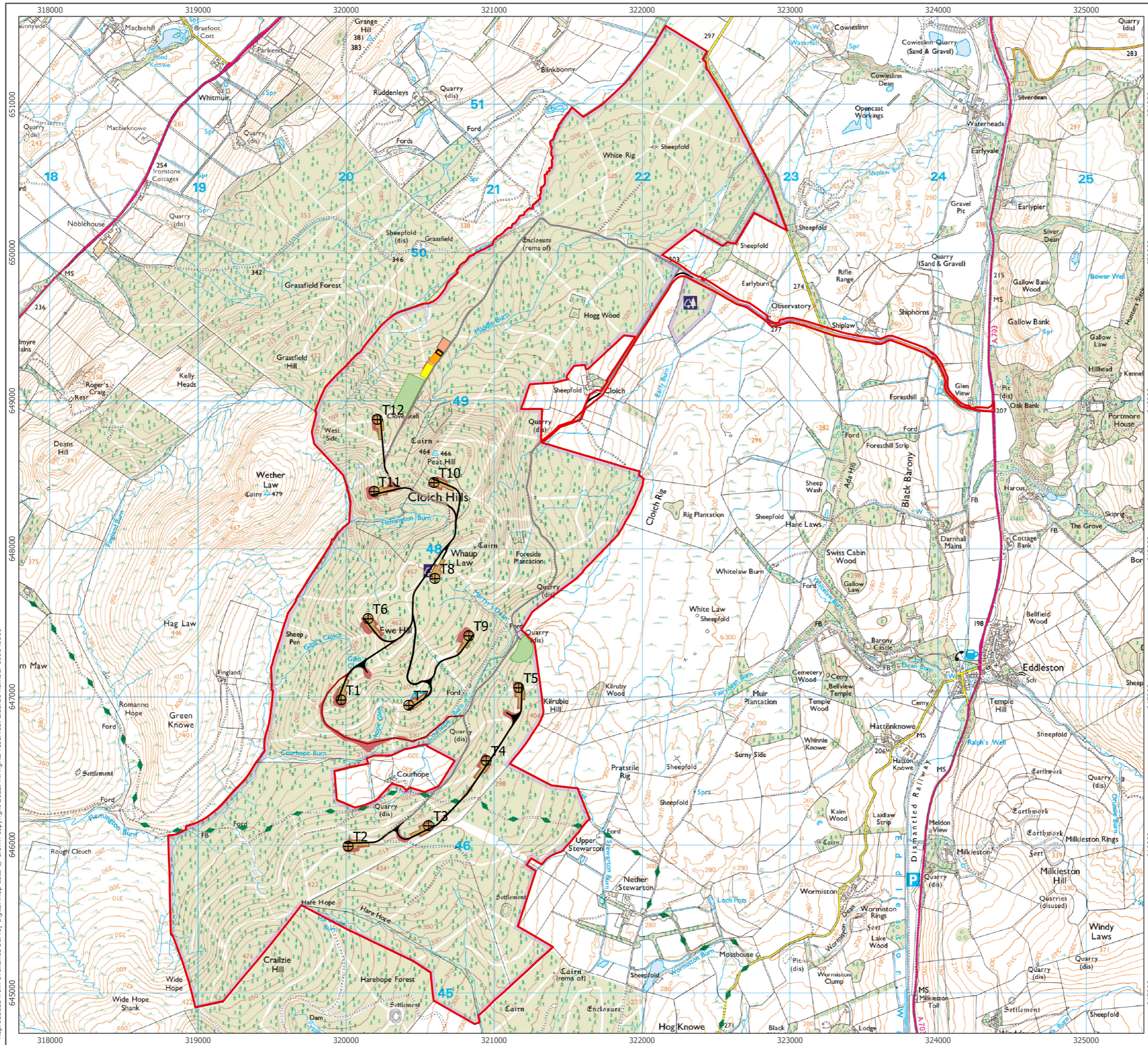
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- Site Boundary
- Borrow Pit
- Temporary Construction Compound
- Crane Hardstanding
- BESS Location
- Substation Compound
- New Access Track (Construction Traffic Only)
- New Access Track
- Existing Track (Subject to Localised Upgrades)
- Public Road
- Public Road Widening Works
- Earthworks
- SPT Temporary Construction Compound
- Proposed Turbine Location

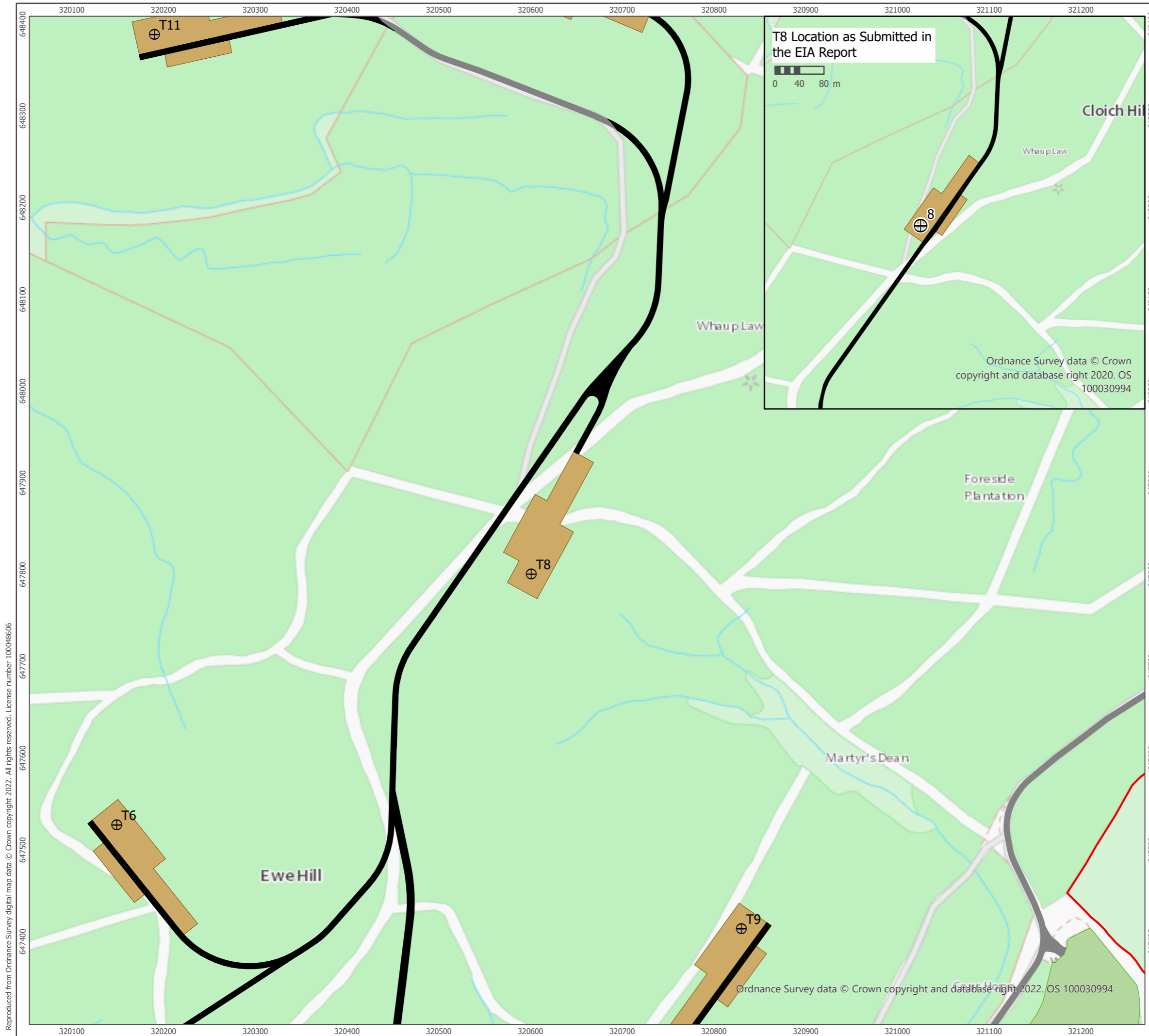
1:25,000 Scale @ A3

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**SEI Design Evolution**  
Figure 2.1

**Cloich Forest Wind Farm**  
SEI Report

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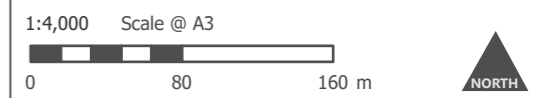


- Site Boundary
- Borrow Pit
- Crane Hardstanding
- New Access Track
- Existing Track (Subject to Localised Upgrades)
- ⊕ Proposed Turbine Location

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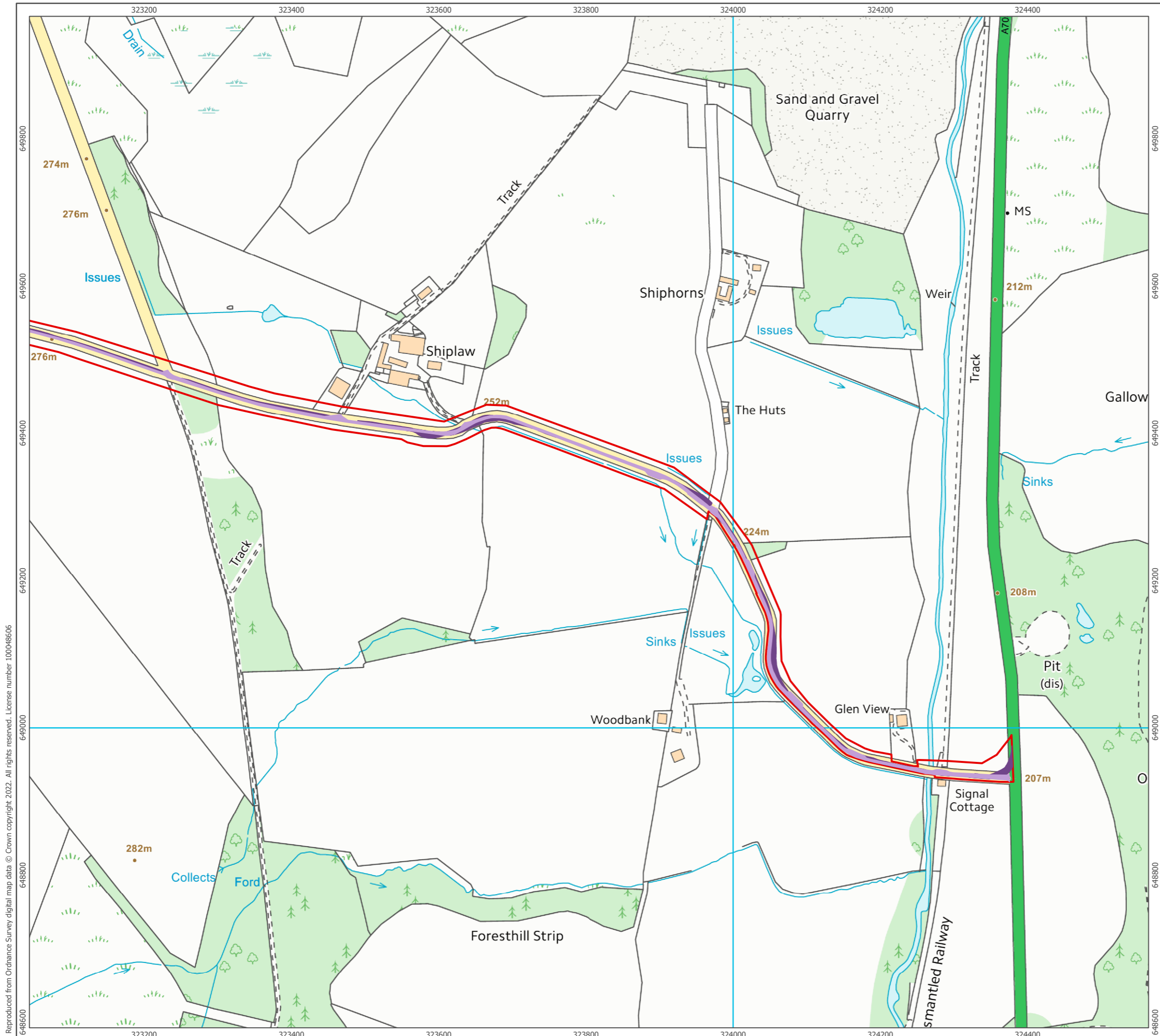
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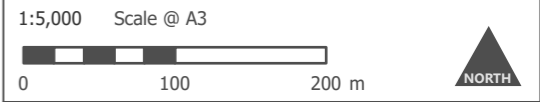
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**T8 Location Change**  
Figure 2.2

**Cloich Forest Wind Farm**  
**SEI Report**



- Site Boundary
- Site Infrastructure
- Public Road
- Public Road Widening Works

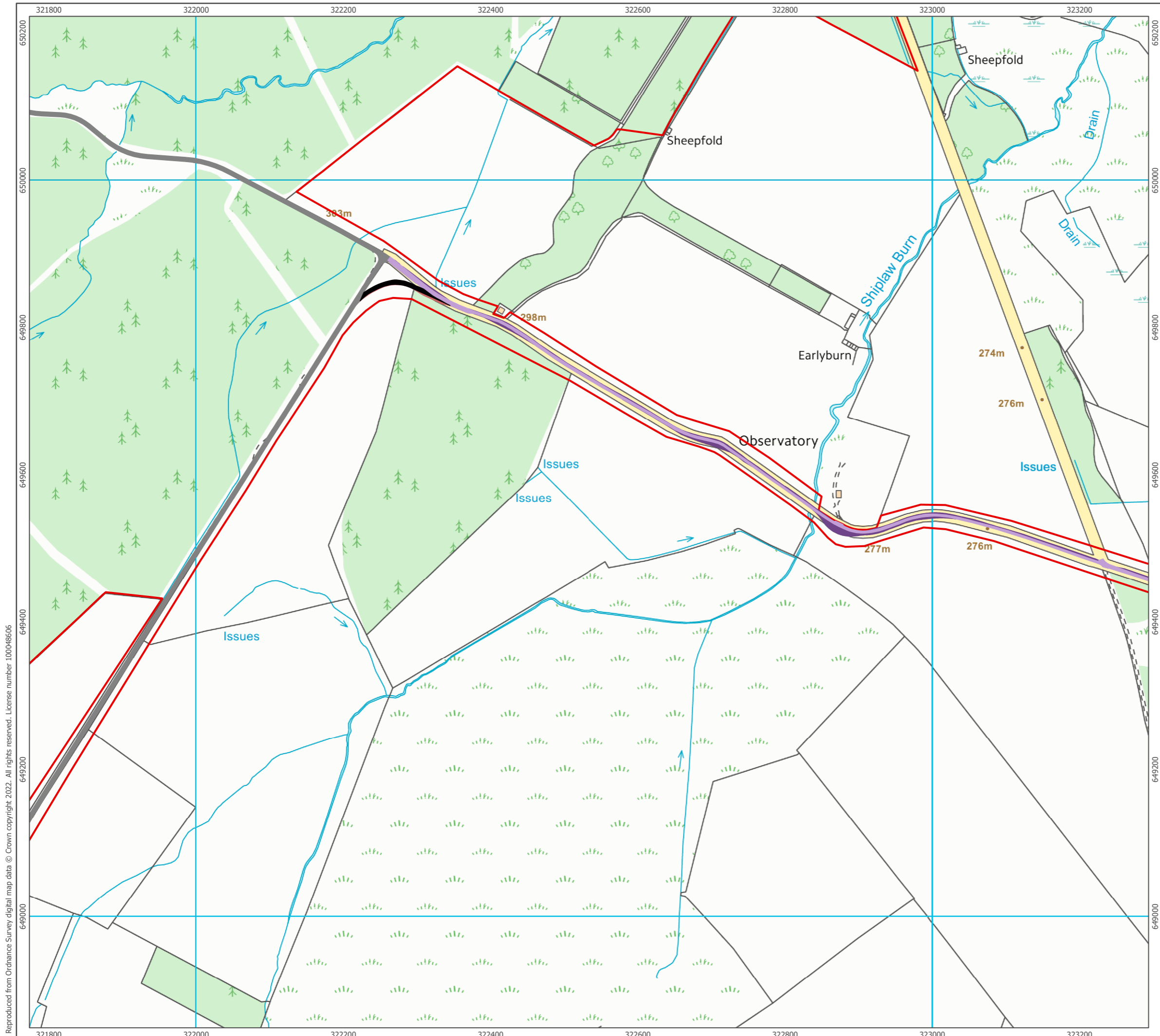


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**Detailed Development SEI  
Site Layout  
Figure 3.1a**

**Cloich Forest Wind Farm  
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- Site Boundary
- Site Infrastructure**
- New Access Track
- Existing Track (Subject to Localised Upgrades)
- Public Road
- Public Road Widening Works
- Earthworks

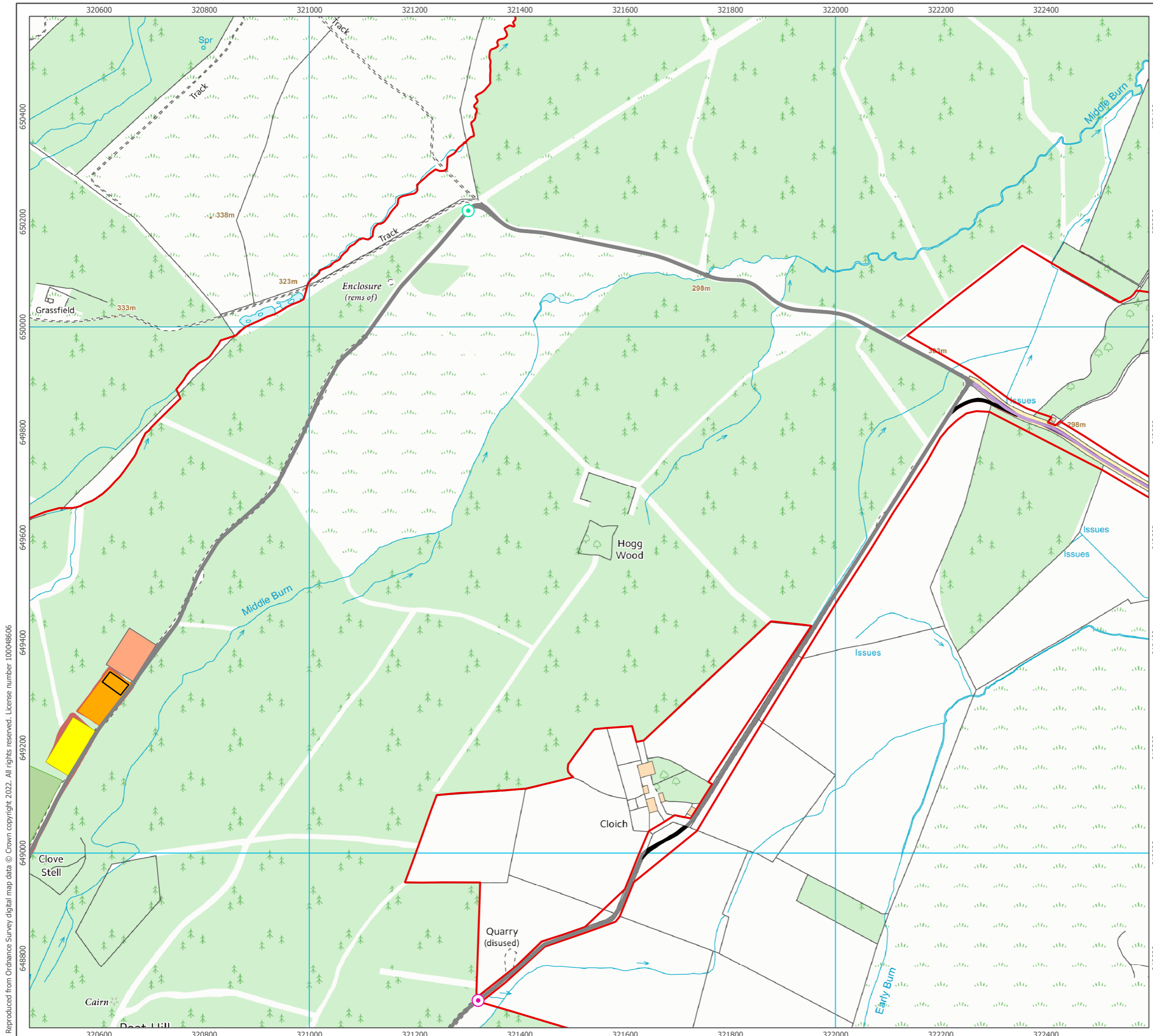


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**Detailed Development SEI  
Site Layout  
Figure 3.1b**

**Cloich Forest Wind Farm  
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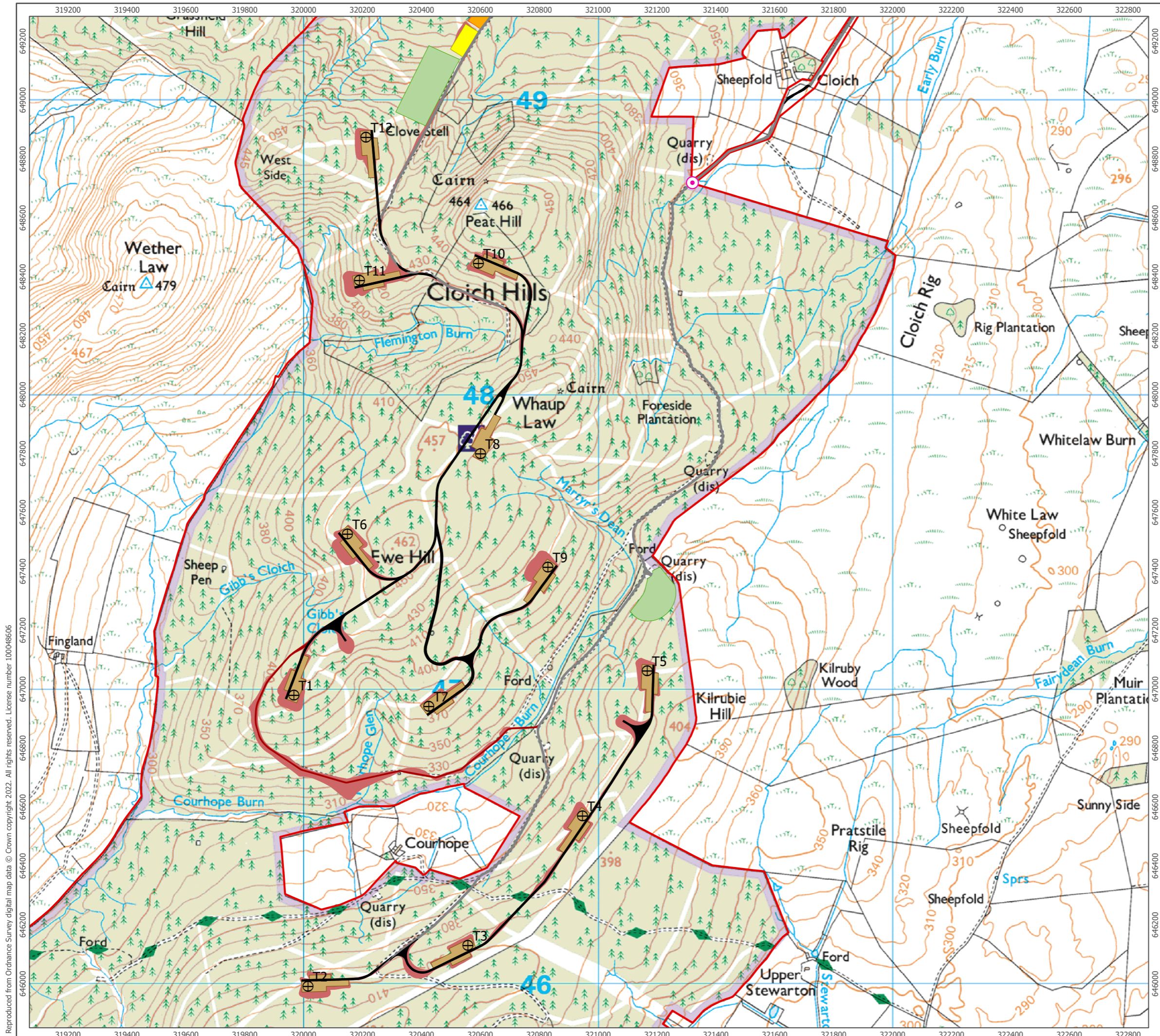
- Site Boundary
- Secondary Entrance
- Site Entrance
- Site Infrastructure**
- Borrow Pit
- Temporary Construction Compound
- BESS Location
- Substation Compound
- New Access Track
- Existing Track (Subject to Localised Upgrades)
- Public Road
- Public Road Widening Works
- Earthworks
- SPT Temporary Construction Compound



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**Detailed Development SEI**  
**Site Layout**  
 Figure 3.1c

**Cloich Forest Wind Farm**  
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- Site Boundary
- ⊕ Proposed Turbine Location
- ⊙ Secondary Entrance
- Site Infrastructure
  - Borrow Pit
  - Temporary Construction Compound
  - Crane Hardstanding
  - Substation Compound
  - New Access Track (Construction Traffic Only)
  - New Access Track
  - Existing Track (Subject to Localised Upgrades)
  - Earthworks

1:12,500 Scale @ A3

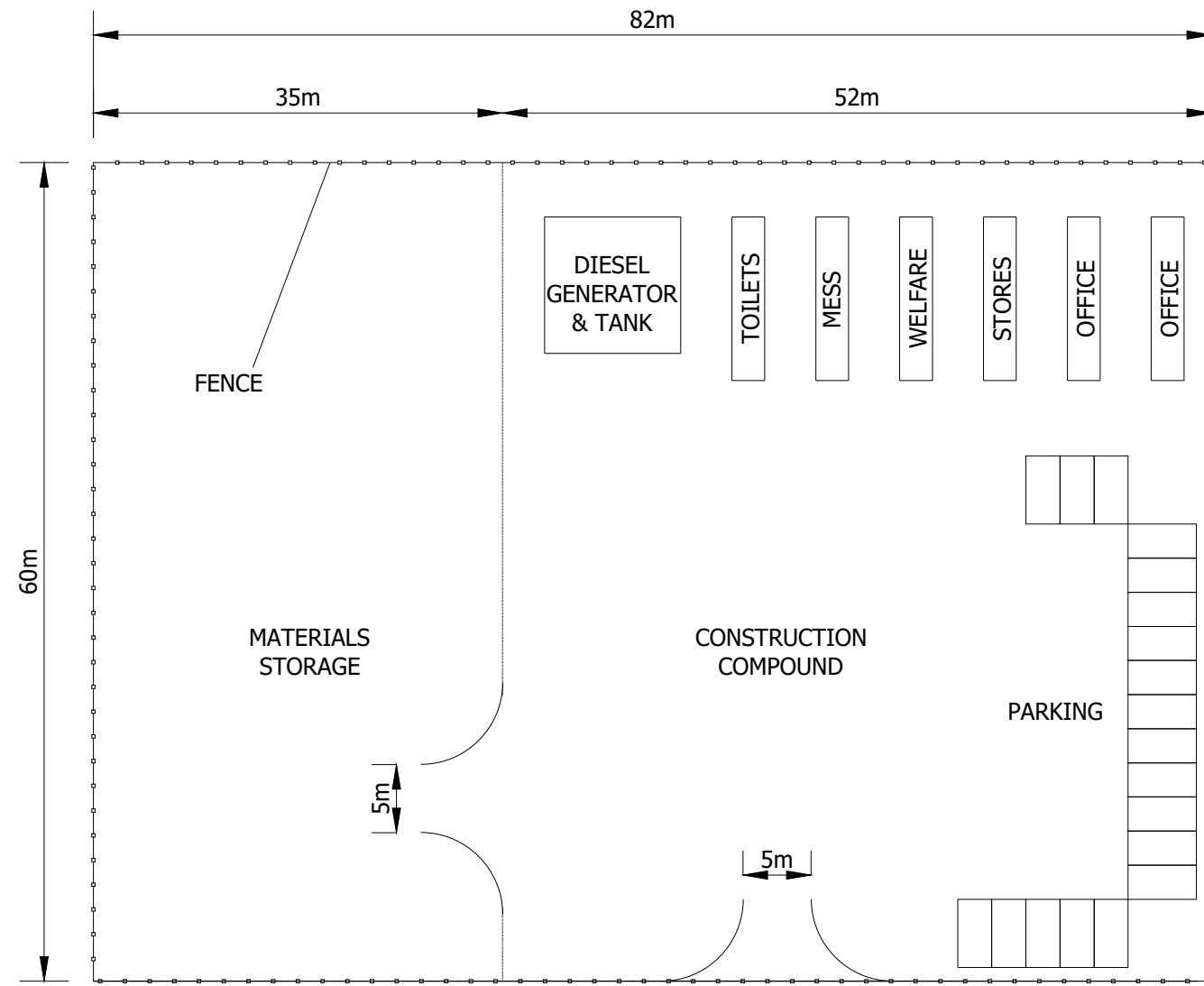
NORTH

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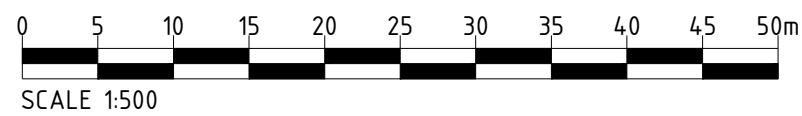
**Detailed Development SEI**  
**Site Layout**  
 Figure 3.1d

**Cloich Forest Wind Farm**  
**SEI Report**





PLAN VIEW OF INDICATIVE  
CONSTRUCTION COMPOUND ARRANGEMENT

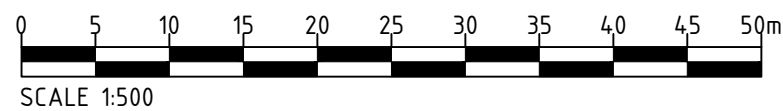
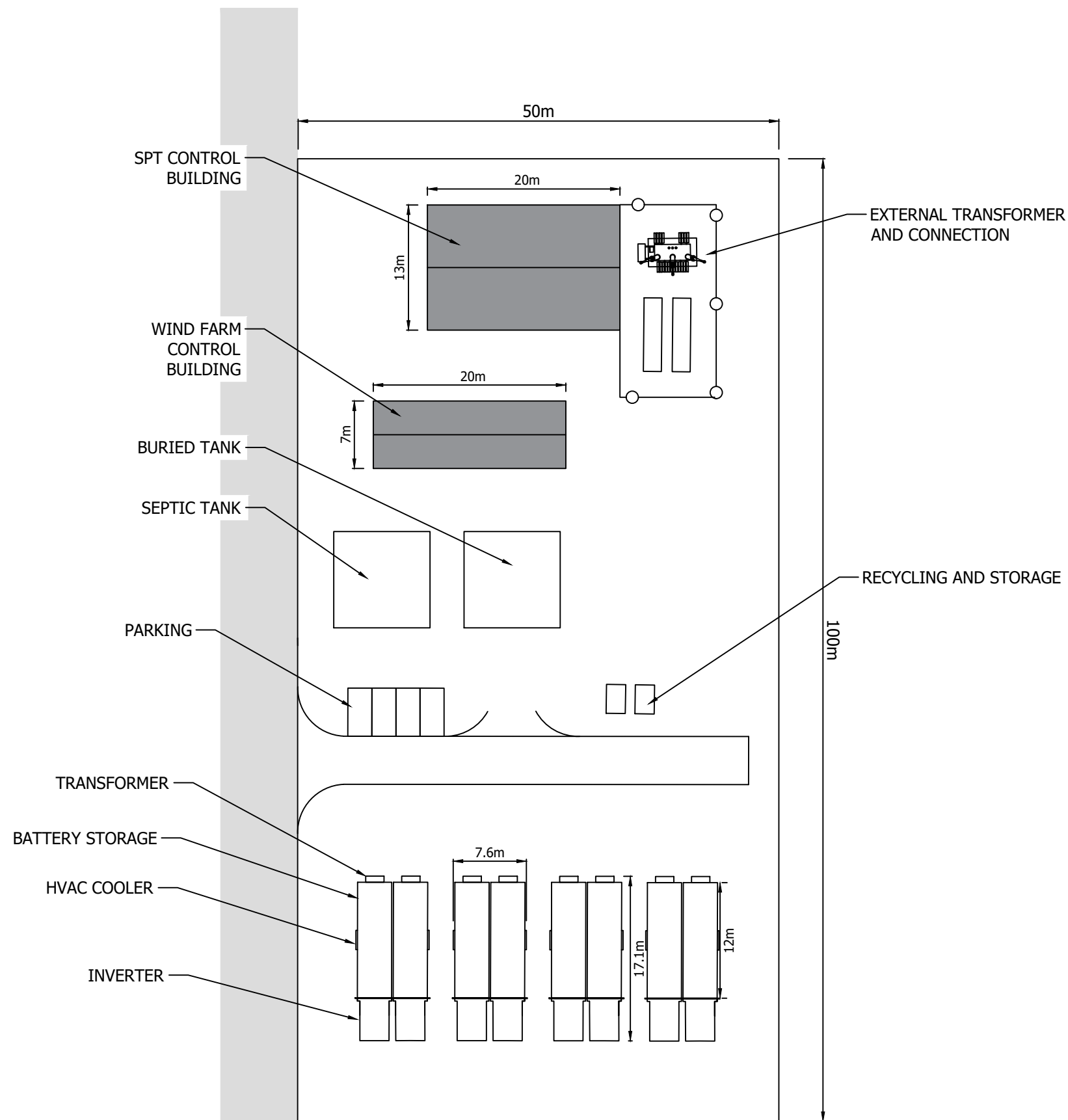


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**Indicative Scottish Power Transmission  
Temporary Construction Compound**  
Figure 3.2

**Cloich Forest Wind Farm  
SEI Report**

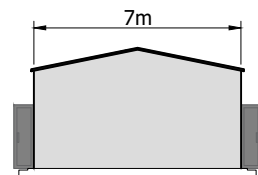


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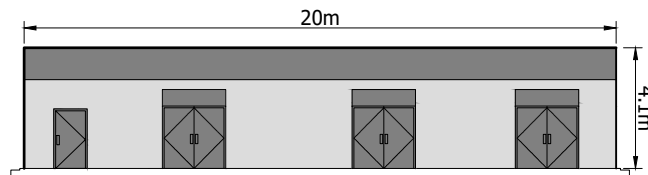
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Approved: BL	

**Indicative Substation & BESS Compound**  
Figure 3.3

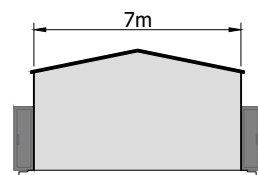
WIND FARM CONTROL BUILDING



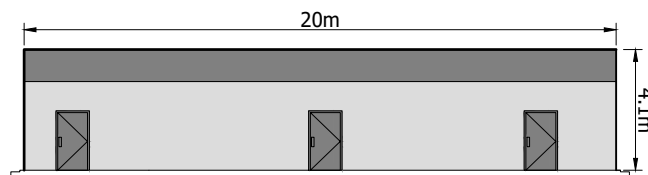
END- ELEVATION



FRONT ELEVATION

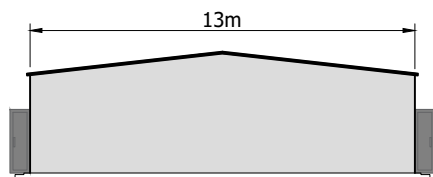


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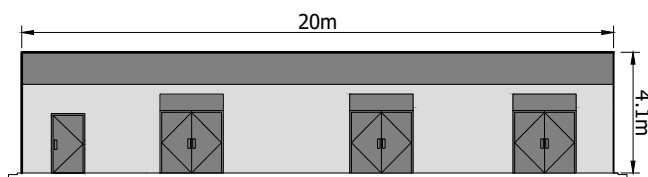


REAR ELEVATION

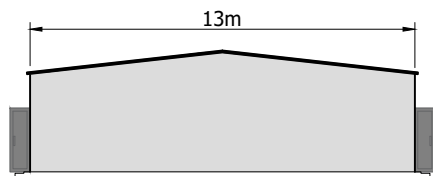
SPT CONTROL BUILDING



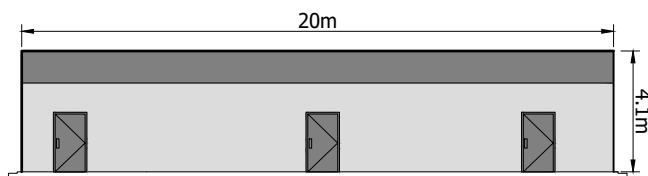
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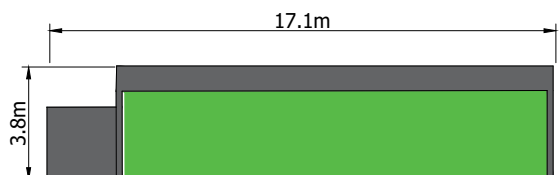
FRONT ELEVATION



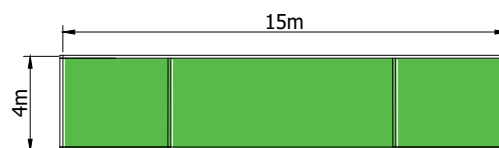
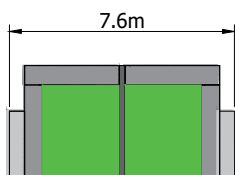
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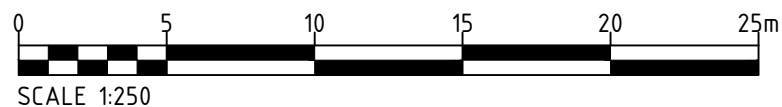
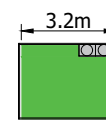
REAR ELEVATION



BATTERY MODULE



SWITCHGEAR-ENCLOSED WITHIN THE WINDFARM CONTROL BUILDING



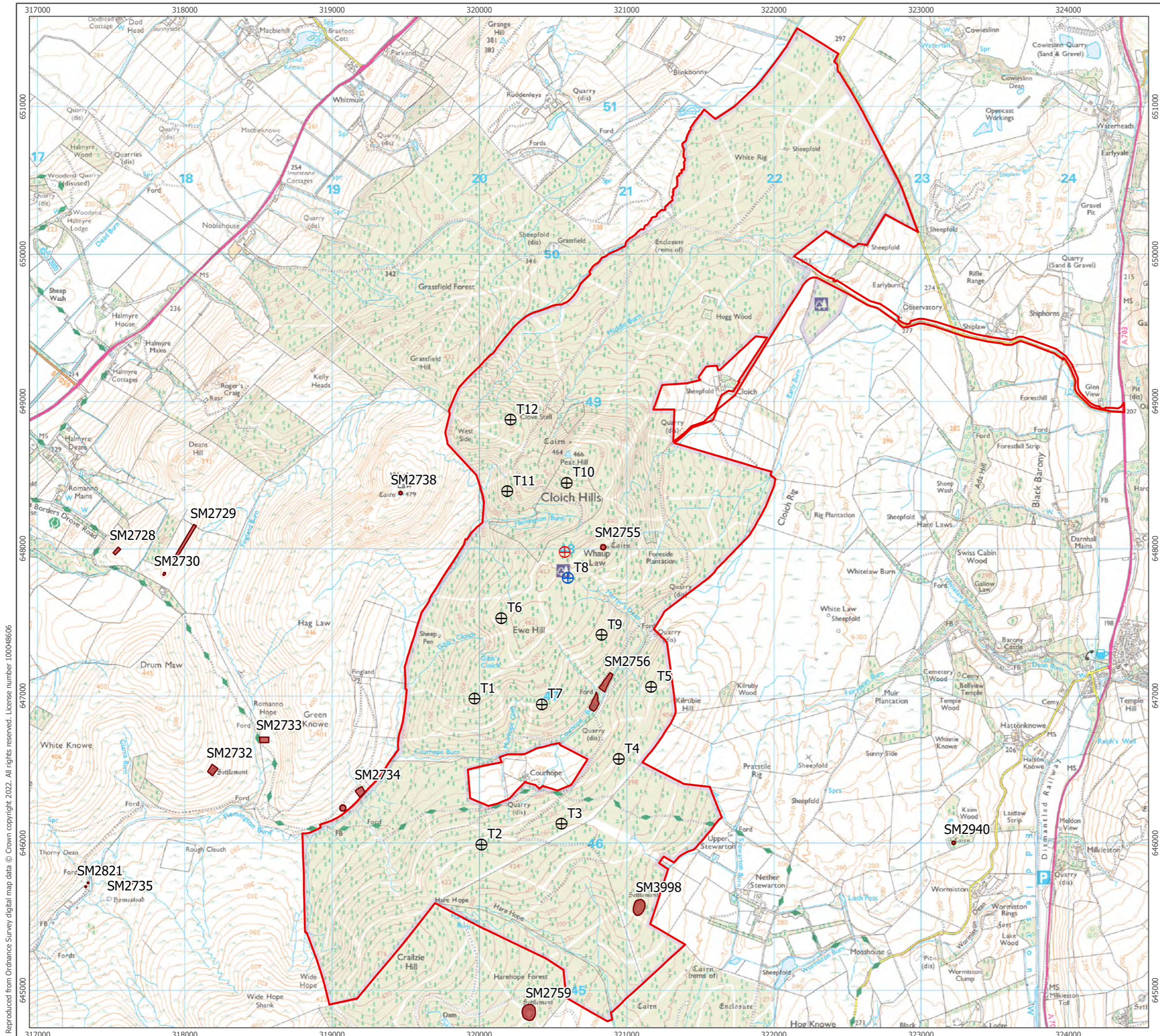
SCALE 1:250

1:250 Scale @ A3

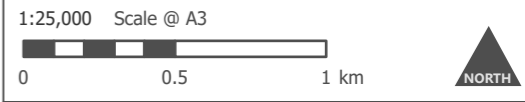
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Approved: BL	

**Indicative Control Buildings & BESS Elevation**  
Figure 3.4

**Cloich Forest Wind Farm SEI Report**



- Site Boundary
- Scheduled Monument
- ⊕ EIA (June 2021) Turbine Position
- ⊕ Re-located T8 Position
- ⊗ Turbine Layout

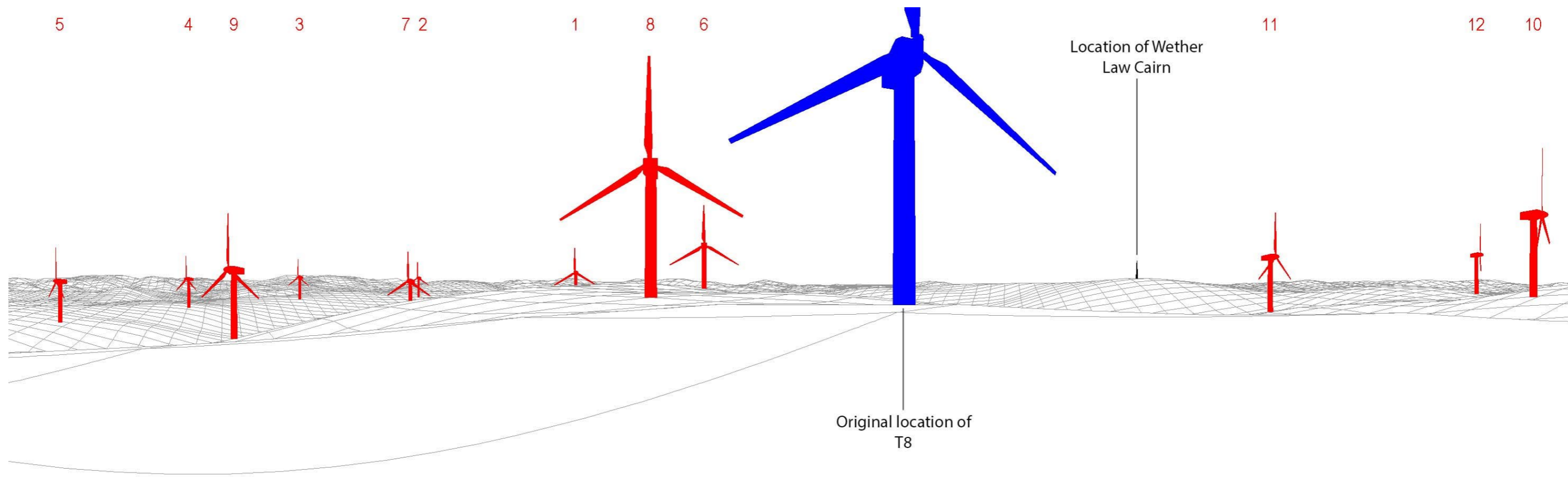


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**SEI Layout and Scheduled Monuments**  
Figure 6.1

**Cloich Forest Wind Farm SEI Report**

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SM2755 Whaup Law Cairn

Figure 6.2: SM2755 Whaup Law Cairn T8 Comparison (180 degree field of view)

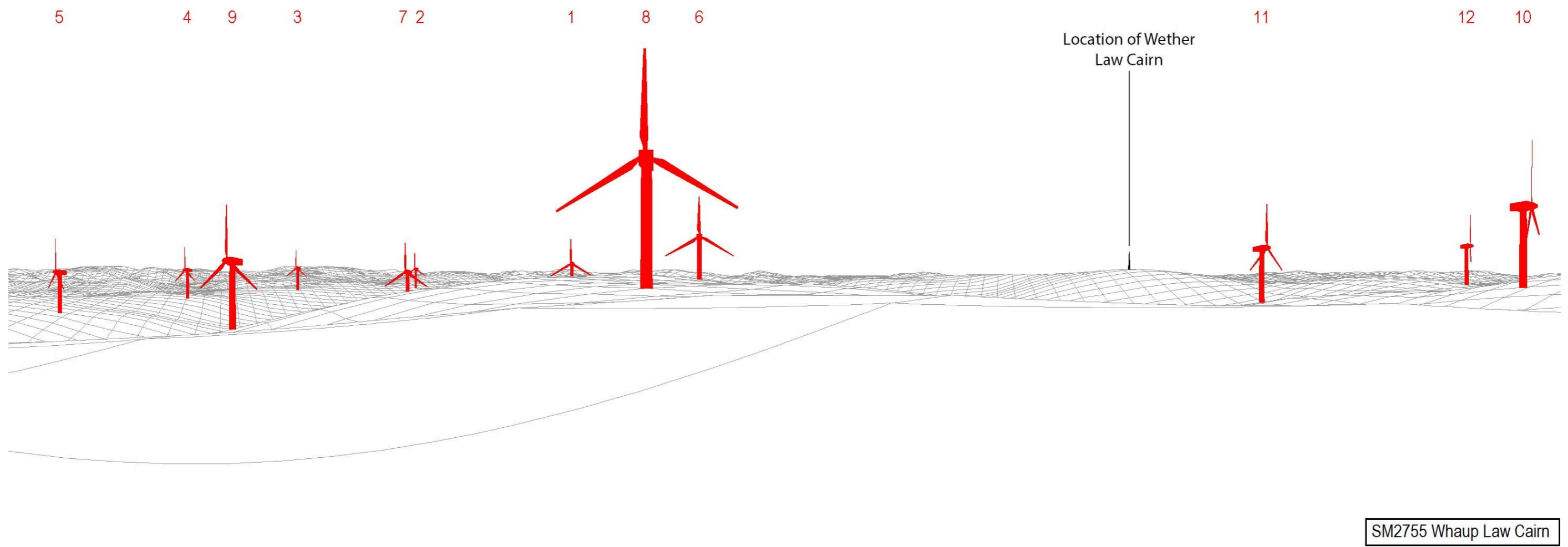
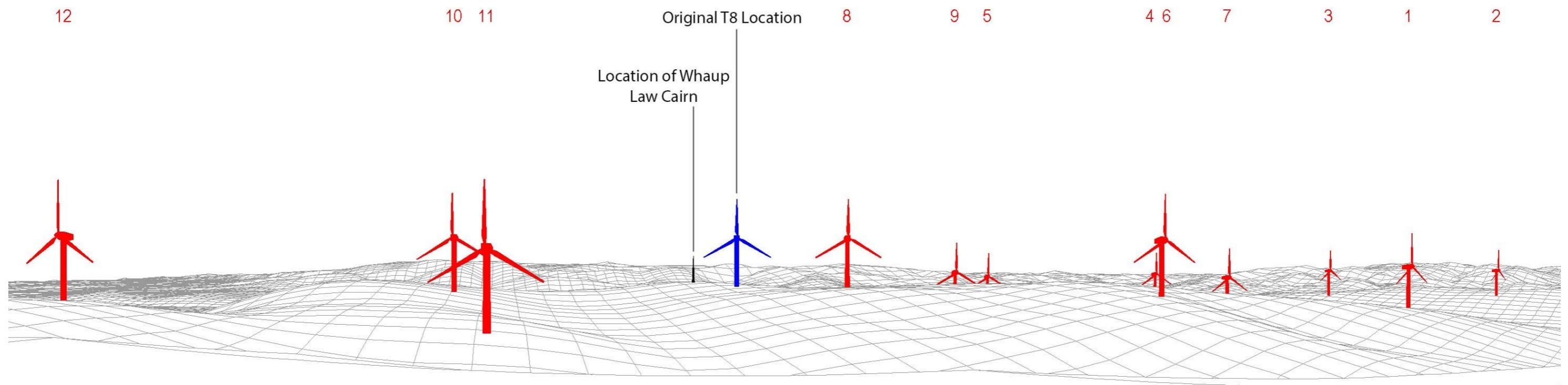
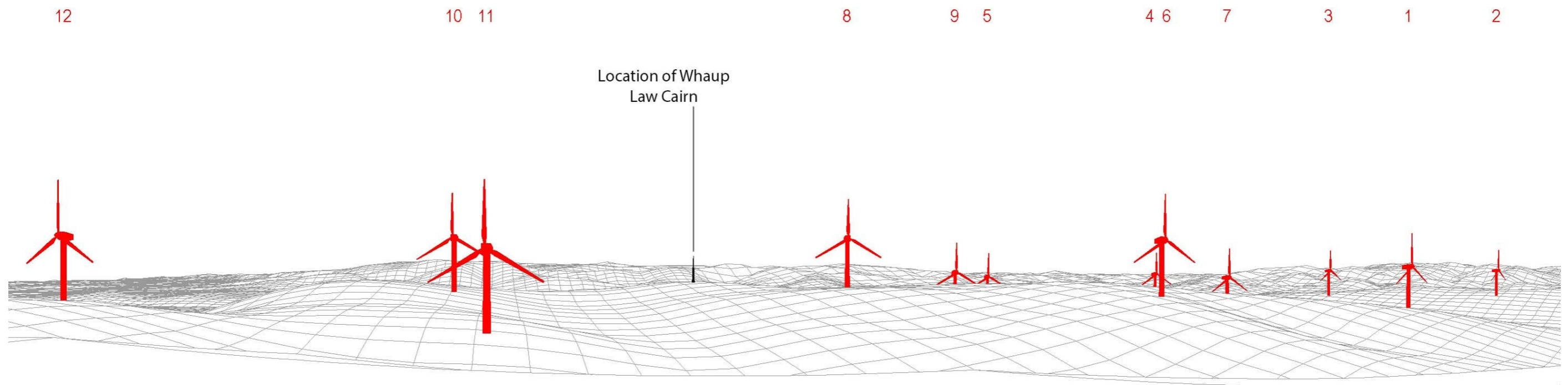


Figure 6.3: SM2755 Whaup Law Cairn T8 Relocation (180 degree field of view)



SM2738 Wether Law Cairn

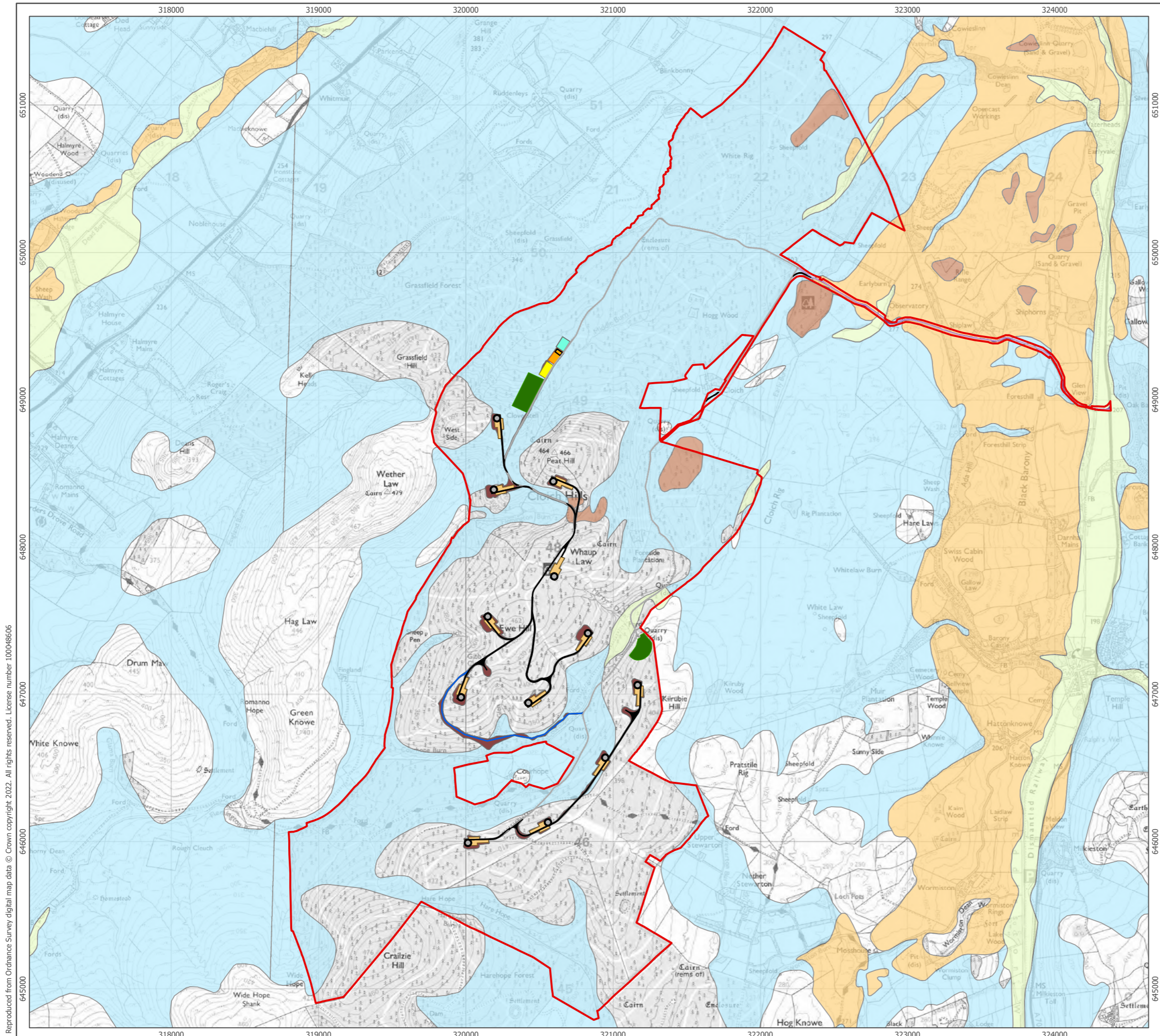
Figure 6.4: SM2738 Whether Law Cairn T8 Comparison (120 degree field of view)



SM2738 Wether Law Cairn



Figure 6.5: SM2738 Whether Law Cairn T8 Relocation (120 degree field of view)





- Site Boundary
- Turbine Locations
- Site Infrastructure**
- Borrow Pit
- Construction Compound
- Crane Hardstanding
- BESS Location
- Substation Compound
- New Access Track (Construction Traffic Only)
- New Access Track
- Existing Track (Subject to Localised Upgrades)
- Public Road
- Public Road Widening Works
- Earthworks
- SPT Temporary Construction Compound
- Superficial Soils**
- ALLUVIUM
- GLACIOFLUVIAL DEPOSITS
- PEAT
- TILL, DEVENSIAN

1:25,000 Scale @ A3

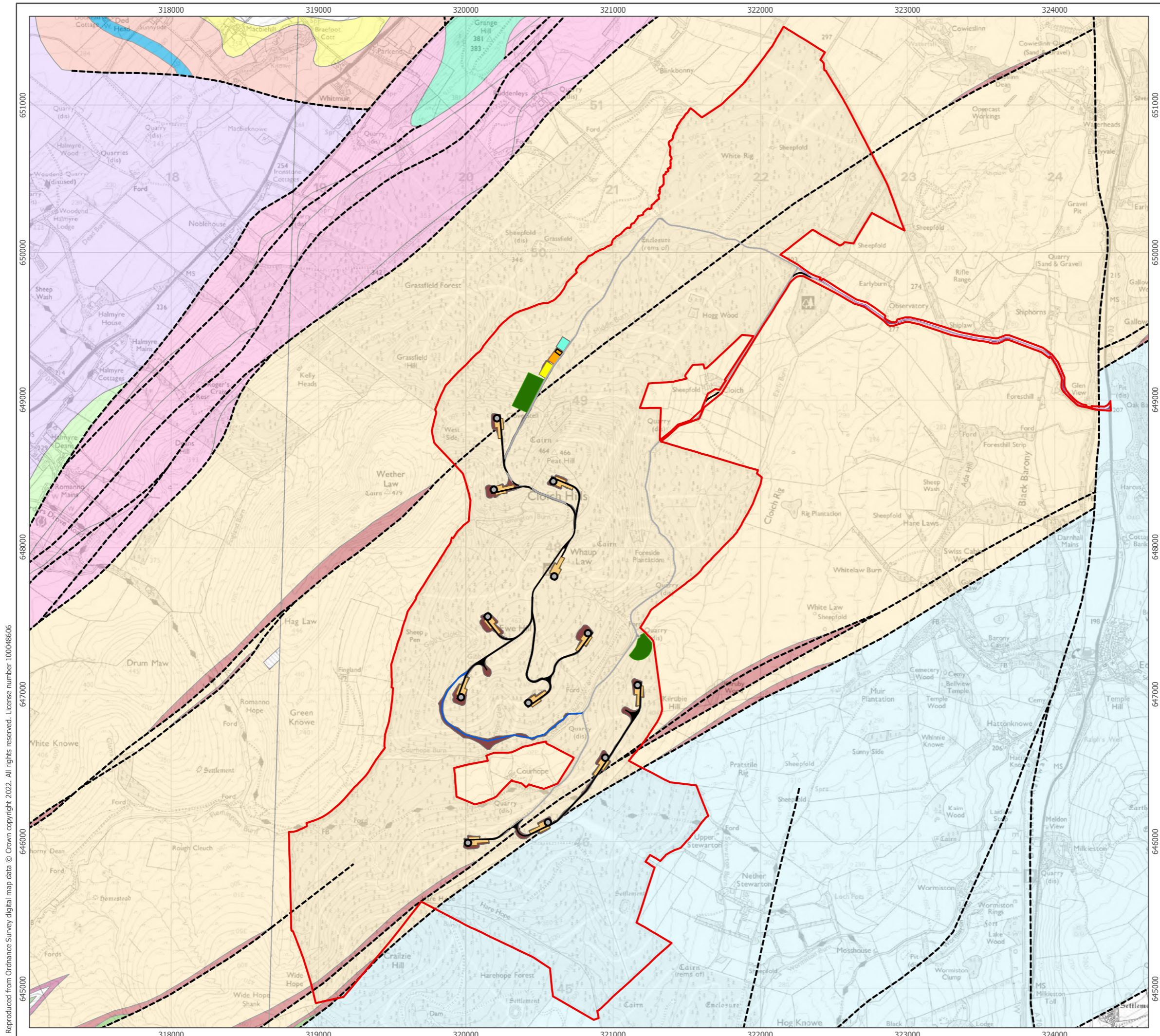



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**Superficial Soils**  
Figure 9.1

**Cloich Forest Wind Farm**  
**SEI Report**



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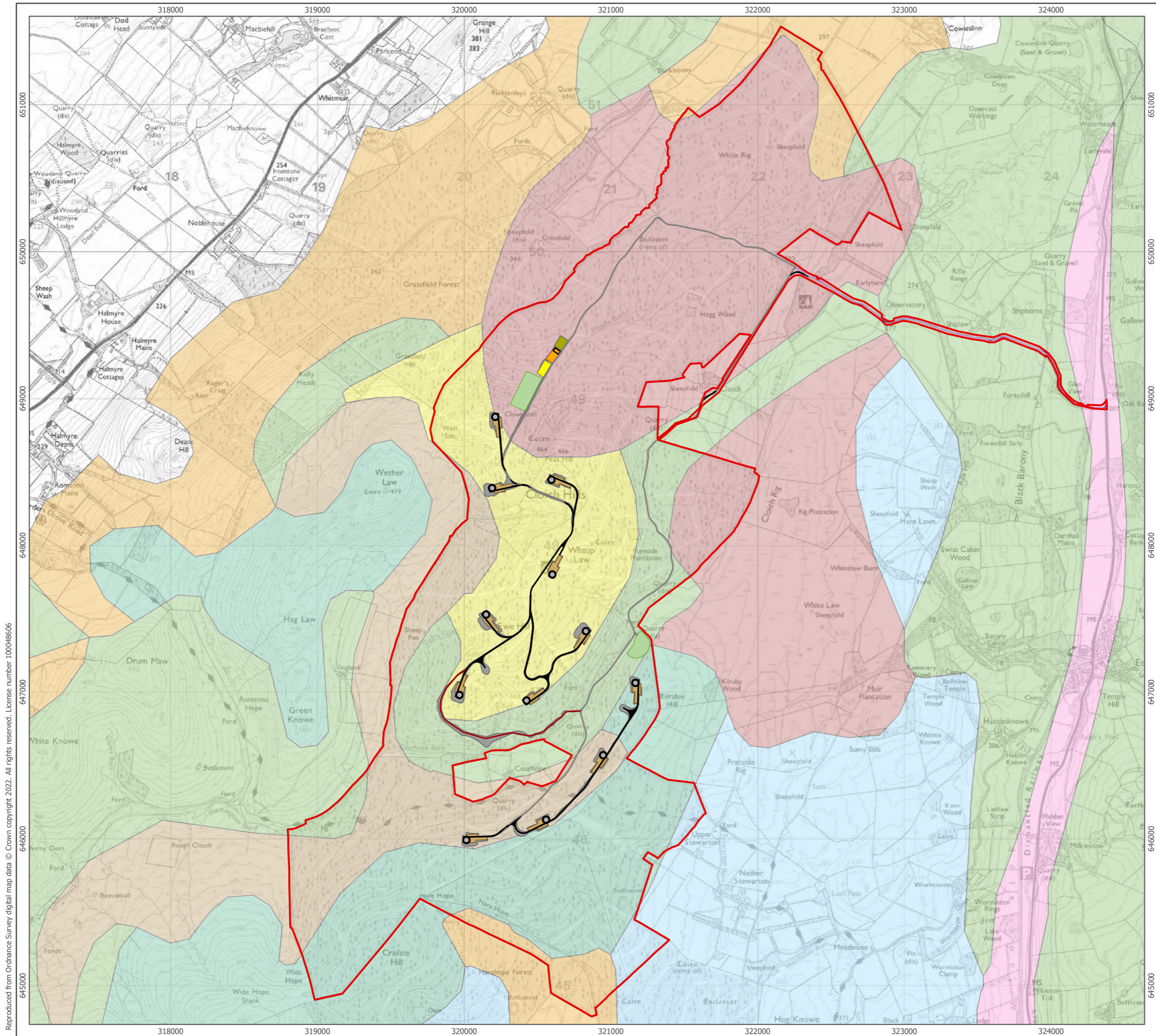
- Site Boundary
  - Turbine Locations
  - Borrow Pit
  - Construction Compound
  - Crane Hardstanding
  - BESS Location
  - Substation Compound
  - New Access Track (Construction Traffic Only)
  - New Access Track
  - Existing Track (Subject to Localised Upgrades)
  - Public Road
  - Public Road Widening Works
  - Earthworks
  - SPT Temporary Construction Compound
- Bedrock Geology**
- AUCHTITENCH SANDSTONE FORMATION
  - BIGGAR VOLCANIC FORMATION
  - CLYDE PLATEAU VOLCANIC FORMATION
  - CRAWFORD GROUP
  - HURLET LIMESTONE
  - KIRKCOLM FORMATION
  - LAMANCHA CONGLOMERATE FORMATION
  - LOWER HARTFELL SHALE FORMATION
  - MARCHBURN FORMATION
  - MOFFAT SHALE GROUP
  - PORTPATRICK FORMATION
  - STRATHCLYDE GROUP
- Faults

1:25,000 Scale @ A3

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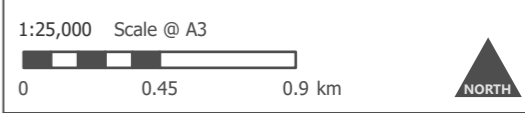
**Solid Geology**  
 Figure 9.2  
**Cloich Forest Wind Farm**  
**SEI Report**



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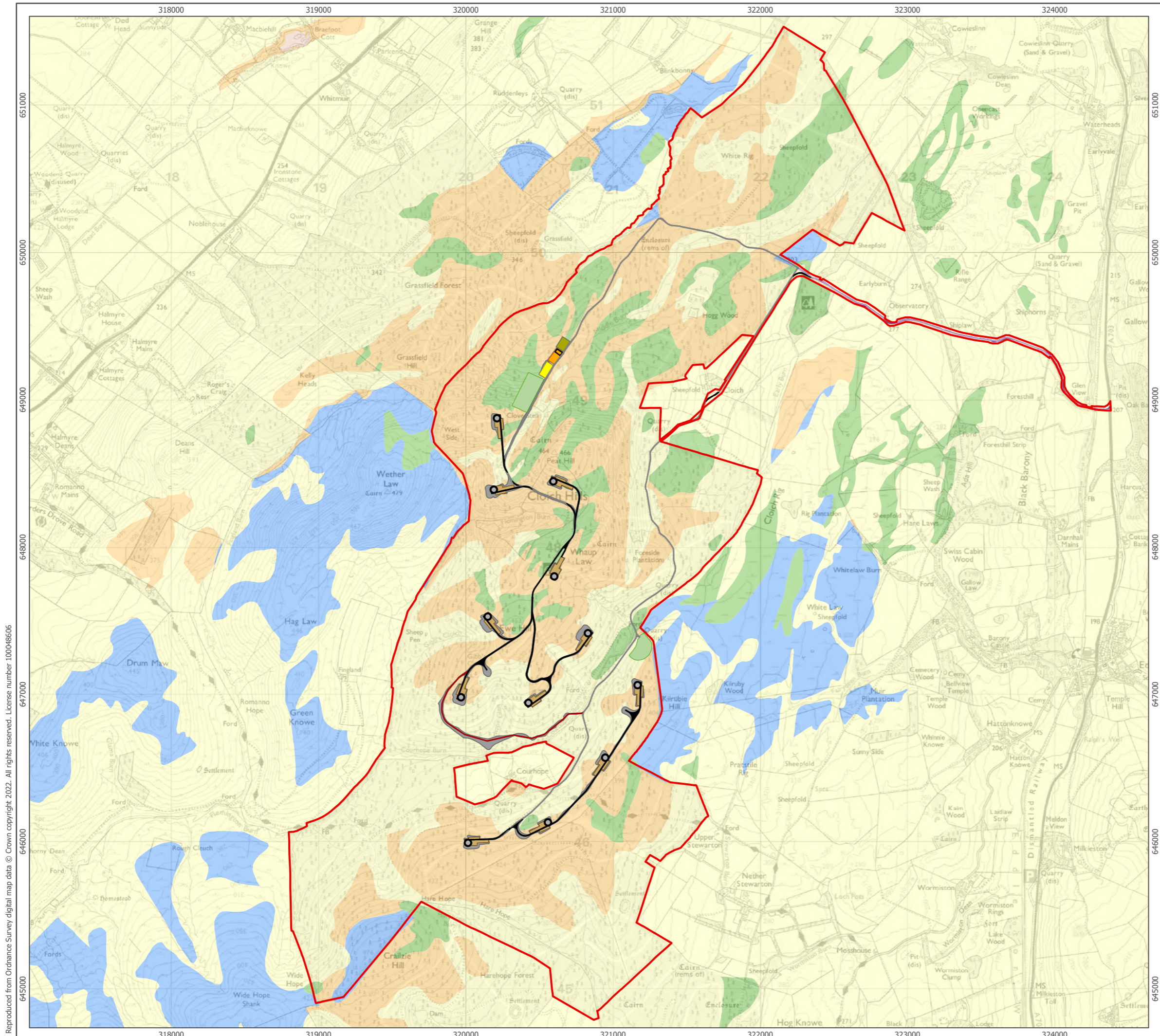
- Site Boundary
- Turbine Locations
- Site Infrastructure**
- Borrow Pit
- Construction Compound
- Crane Hardstanding
- BESS Location
- Substation Compound
- New Access Track (Construction Traffic Only)
- New Access Track
- Existing Track (Subject to Localised Upgrades)
- Public Road
- Public Road Widening Works
- Earthworks
- SPT Temporary Construction Compound
- Soil Type**
- Alluvial soils
- Brown forest soils
- Brown forest soils; some brown forest soils with gleying
- Noncalcareous gleys; some brown forest soils with gleying
- Peaty gleys, noncalcareous gleys
- Peaty gleys, peat; some peaty podzols
- Peaty podzols; some humus-iron podzols
- Peaty podzols; some peaty gleys, peat



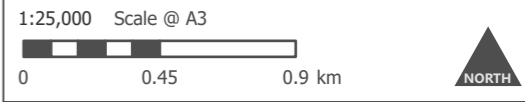
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**National Soils of Scotland**  
Figure 9.3

**Cloich Forest Wind Farm**  
**SEI Report**



- Site Boundary
- Turbine Locations
- Site Infrastructure**
- Borrow Pit
- Construction Compound
- Crane Hardstanding
- BESS Location
- Substation Compound
- New Access Track (Construction Traffic Only)
- New Access Track
- Existing Track (Subject to Localised Upgrades)
- Public Road
- Public Road Widening Works
- Earthworks
- SPT Temporary Construction Compound
- Carbon and Peatland Map (2016,SNH)**
- 2 (Non-soil)
- 0 (Mineral Soils)
- 3 (Dominant Vegetation Cover is not Priority Peatland but is Associated With Wet and Acidic Type)
- 4 (Area Unlikely to be Associated With Peatland Habitats)
- 5 (No Peatland Habitat Recorded)

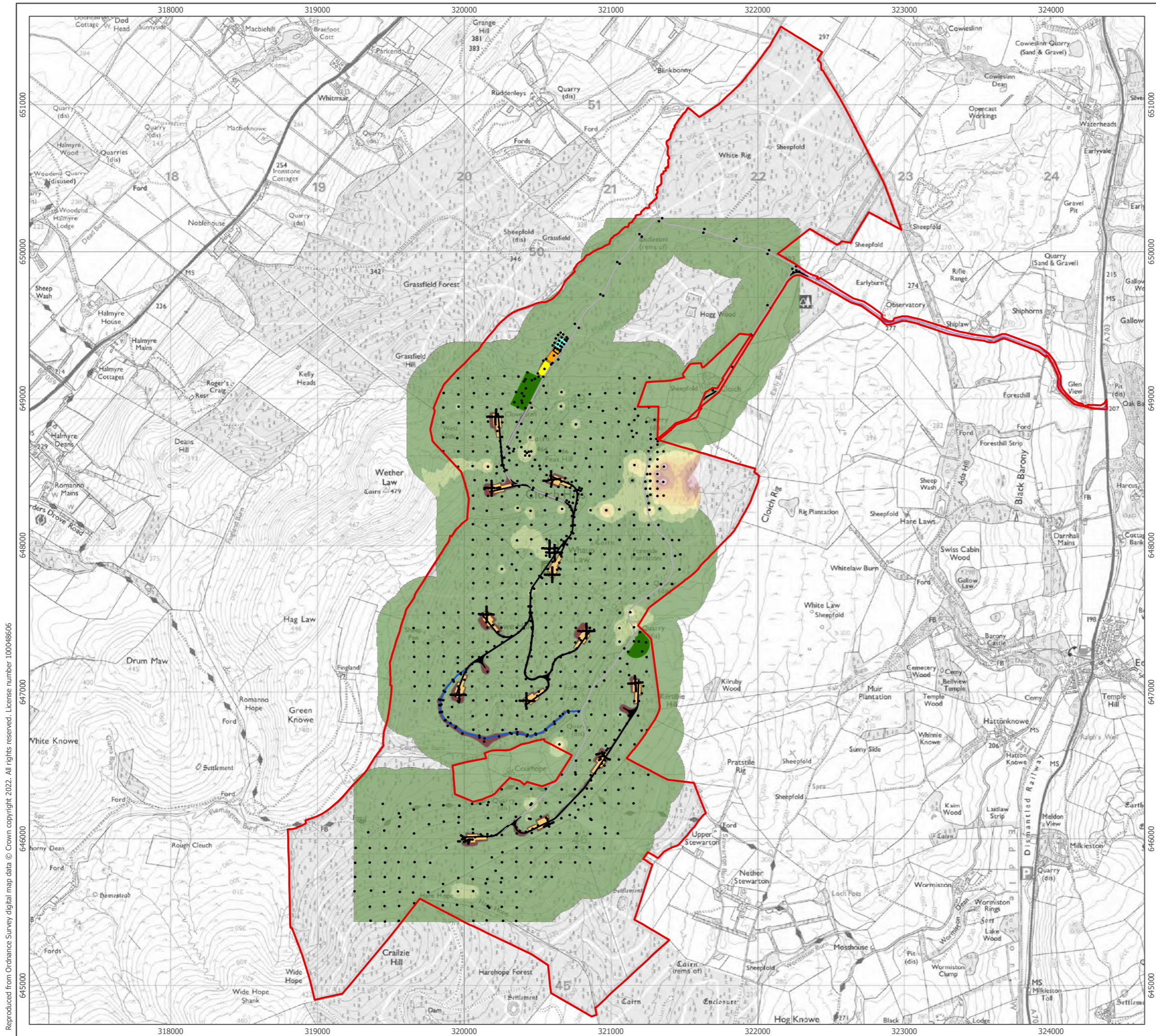


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**Extract From  
Carbon and Peatland 2016 Map  
Figure 9.4**



**Cloich Forest Wind Farm  
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- Site Boundary
- Site Infrastructure**
- Borrow Pit
- Construction Compound
- Crane Hardstanding
- BESS Location
- Substation Compound
- New Access Track (Construction Traffic Only)
- New Access Track
- Existing Track (Subject to Localised Upgrades)
- Public Road
- Public Road Widening Works
- Earthworks
- SPT Temporary Construction Compound
- Peat Probe Locations

- Peat Depths (m)**
- 0.00 - 0.50
  - 0.51 - 1.00
  - 1.01 - 1.50
  - 1.51 - 2.00
  - 2.01 - 2.50
  - 2.51 - 3.00
  - 3.01 - 3.50
  - 3.51 - 4.00
  - 4.01 +

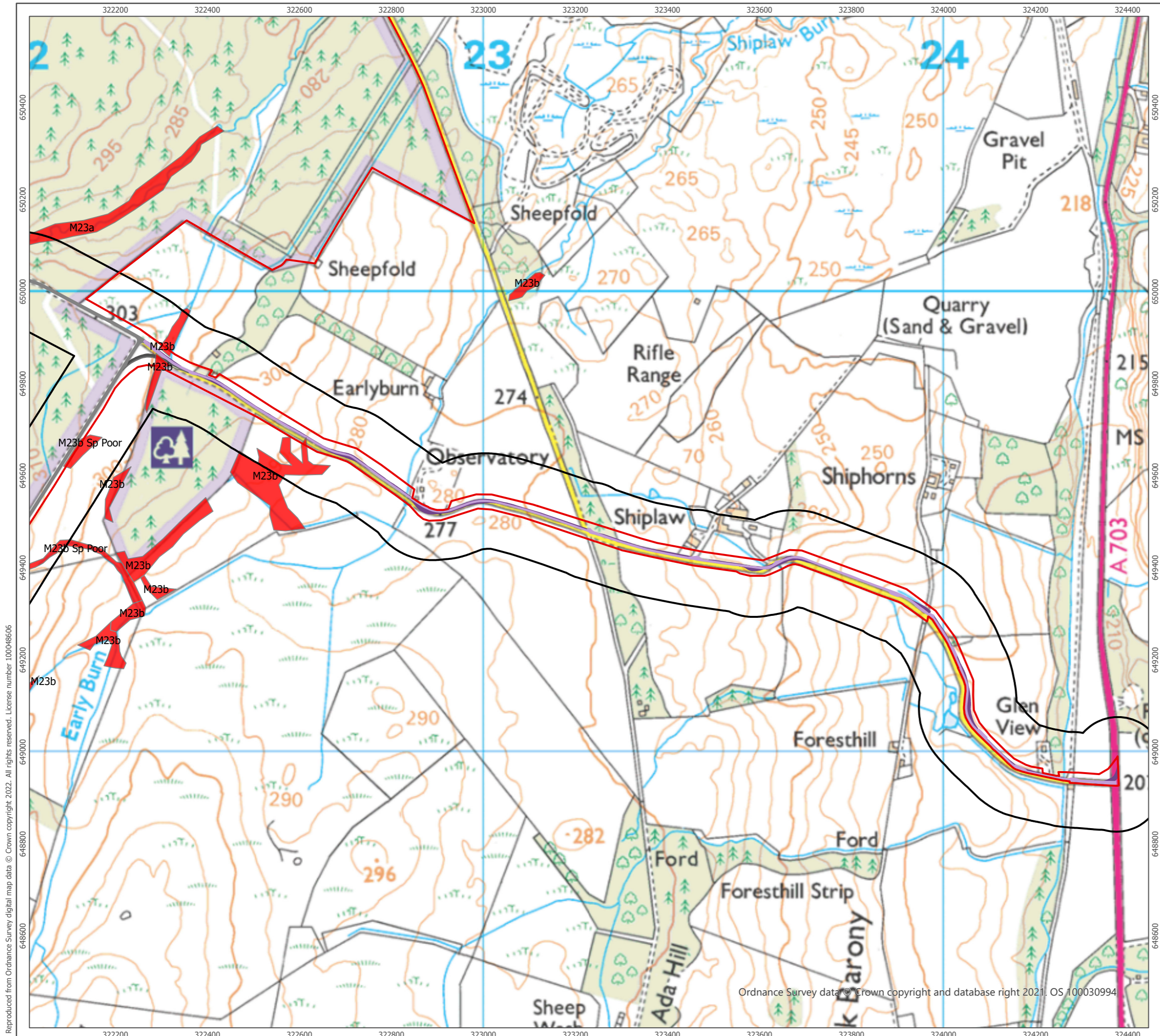
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**Interpolated Peat Depths**  
Figure 9.5

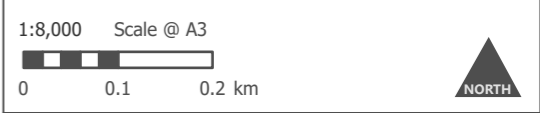
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**Legend**

- Site Boundary
- 100 m Buffer of Infrastructure Requiring Excavation < 1 m
- GWDTE Potential**
- High
- Infrastructure Type**
- Earthworks
- Existing Track Subject to Localised Upgrades
- New Access Track
- Public Road
- Public Road Widening Works



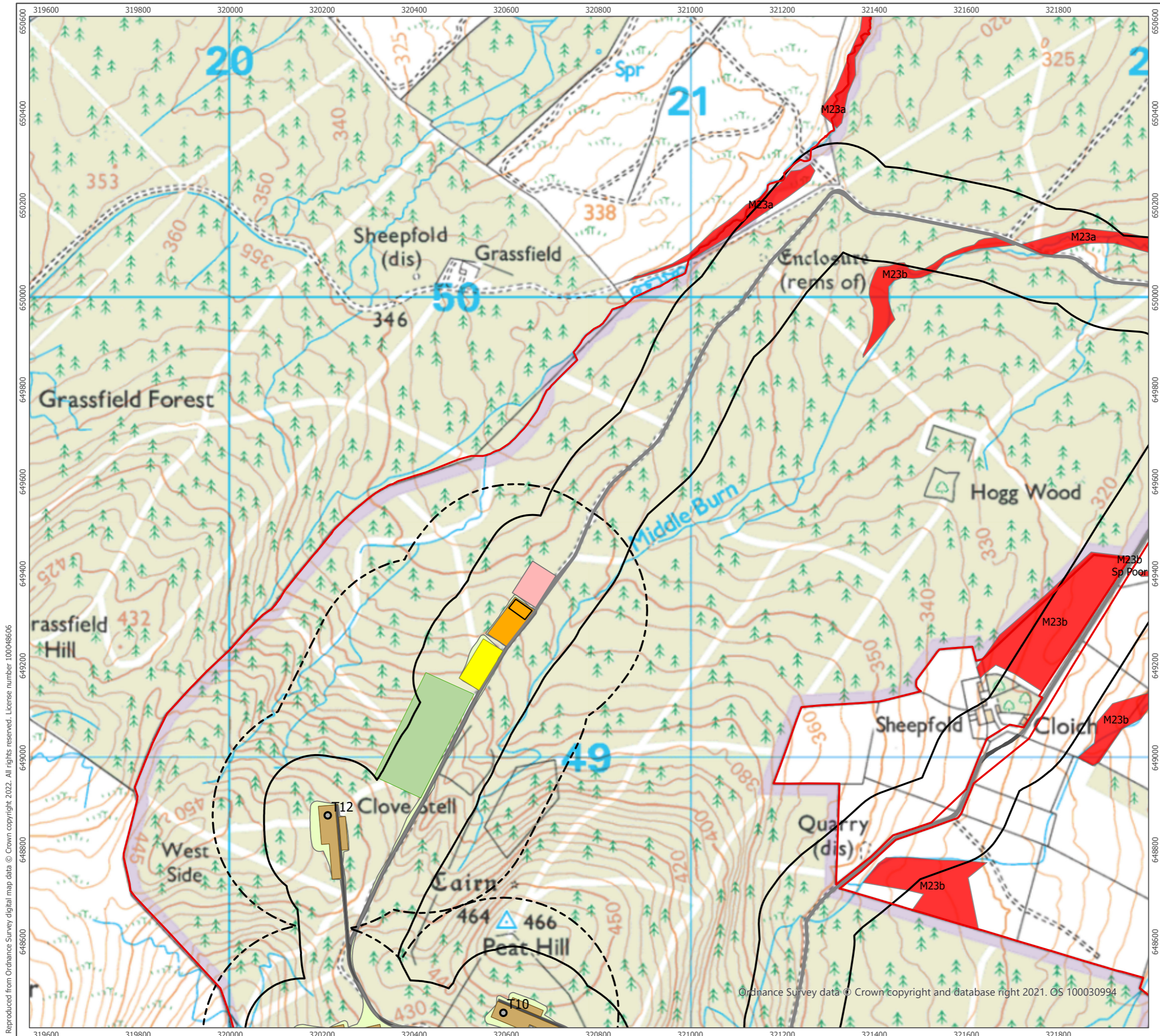
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**Groundwater Dependent  
Terrestrial Ecosystems**  
Figure 10.1

**Cloich Forest Wind Farm  
SEI Report**

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- Legend**
- Turbine Locations
  - ▭ Site Boundary
  - ▭ 100 m Buffer of Infrastructure Requiring Excavation < 1 m
  - ▭ 250 m Buffer of Infrastructure Requiring Excavation > 1 m
  - GWDTE Potential**
  - High
  - Infrastructure Type**
  - ▭ BESS Location
  - ▭ Borrow Pit
  - ▭ Construction Compound
  - ▭ Crane Hardstanding
  - ▭ Earthworks
  - ▭ Existing Track Subject to Localised Upgrades
  - ▭ New Access Track
  - ▭ SPT Temporary Construction Compound
  - ▭ Substation Compound

1:8,000 Scale @ A3  
 0 0.1 0.2 km  
 NORTH

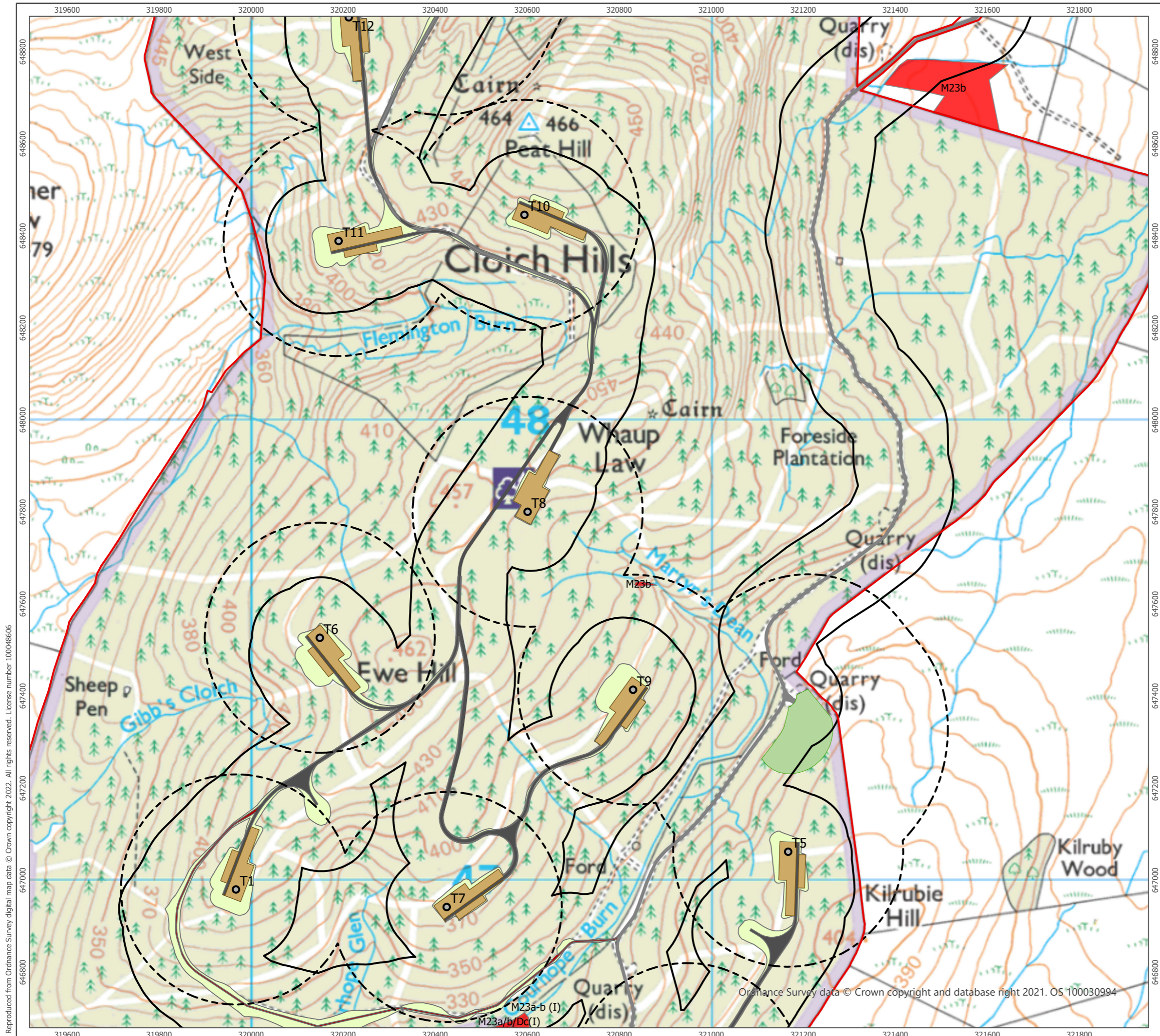
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**Groundwater Dependent Terrestrial Ecosystems**  
 Figure 10.1

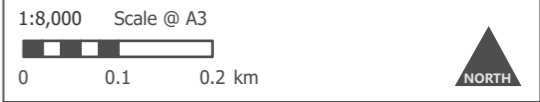
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- Legend**
- Turbine Locations
  - ▭ Site Boundary
  - ▭ 100 m Buffer of Infrastructure Requiring Excavation < 1 m
  - ▭ 250 m Buffer of Infrastructure Requiring Excavation > 1 m
- GWDTE Potential**
- High
- Infrastructure Type**
- Borrow Pit
  - Crane Hardstanding
  - Earthworks
  - ▬ Existing Track Subject to Localised Upgrades
  - ▬ New Access Track
  - ▬ New Track Used by Construction Traffic Only



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Checked By: SC	Date: 18/10/2022

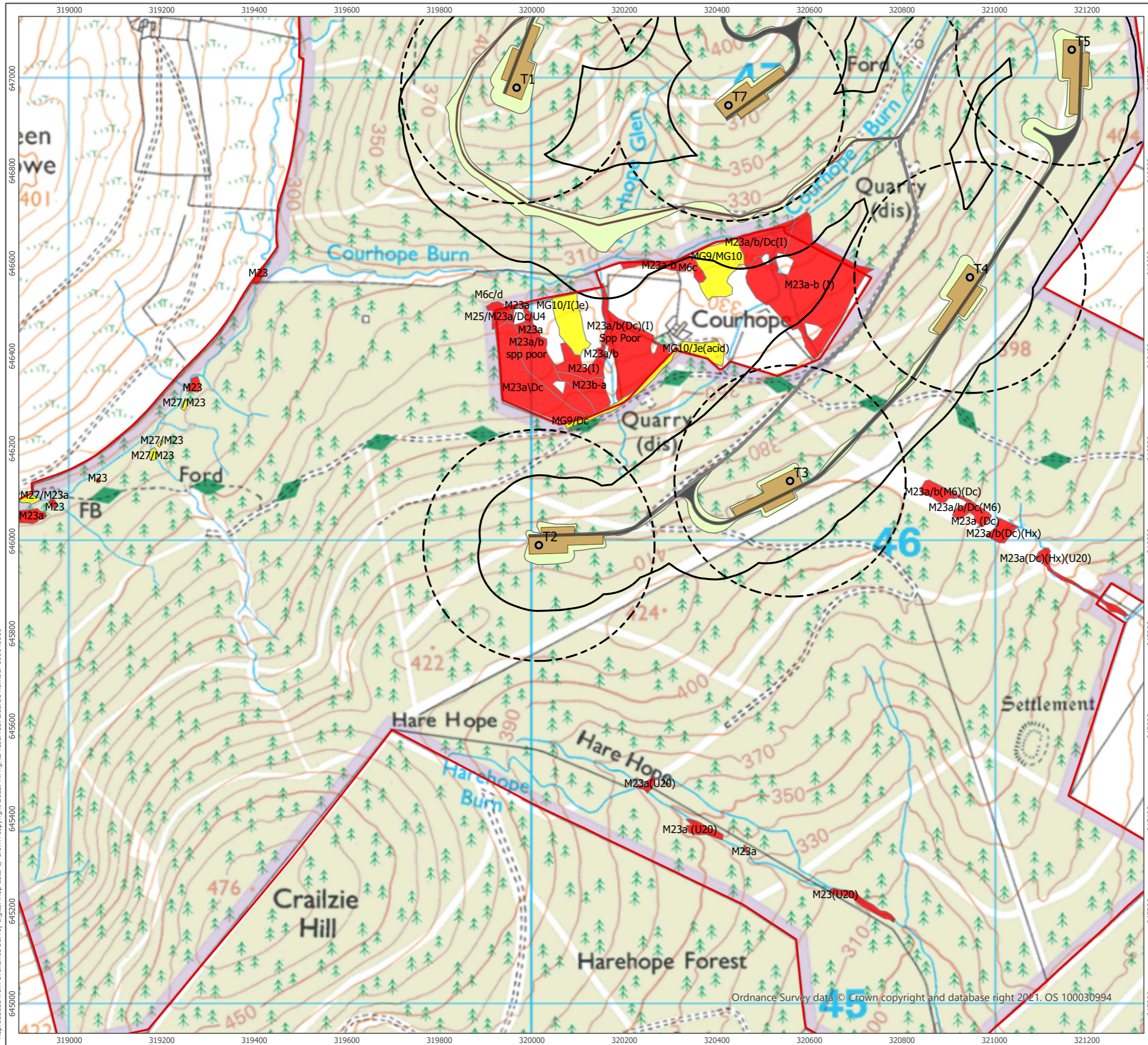
**Groundwater Dependent Terrestrial Ecosystems**  
Figure 10.1

**Cloich Forest Wind Farm SEI Report**

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**Legend**

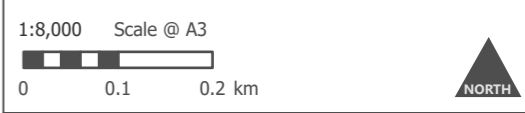
- Turbine Locations
- Site Boundary
- 100 m Buffer of Infrastructure Requiring Excavation < 1 m
- 250 m Buffer of Infrastructure Requiring Excavation > 1 m

**GWLTE Potential**

- High
- Moderate

**Infrastructure Type**

- Crane Hardstanding
- Earthworks
- Existing Track Subject to Localised Upgrades
- New Access Track
- New Track Used by Construction Traffic Only



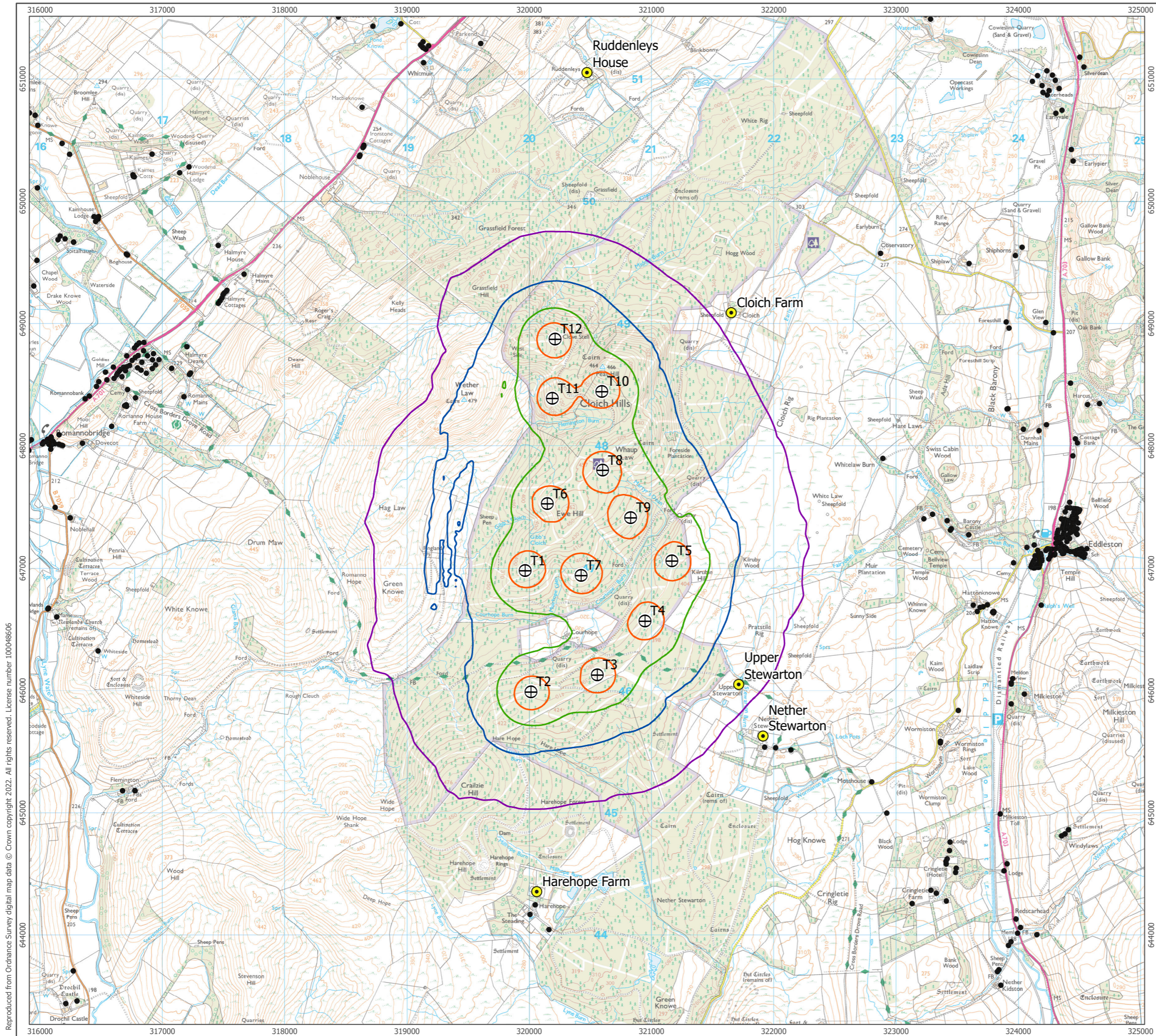
Produced By: CG	Ref: 4519-REP-014
Checked By: SC	Date: 18/10/2022

**Groundwater Dependent  
Terrestrial Ecosystems**  
Figure 10.1

**Cloich Forest Wind Farm  
SEI Report**

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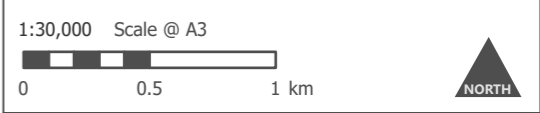
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- ⊕ Proposed Turbine Location
- Assessed Receptor
- Noise Sensitive Receptor

Predicted noise levels, LA90,10min

- 35 dB
- 40 dB
- 45 dB
- 50 dB

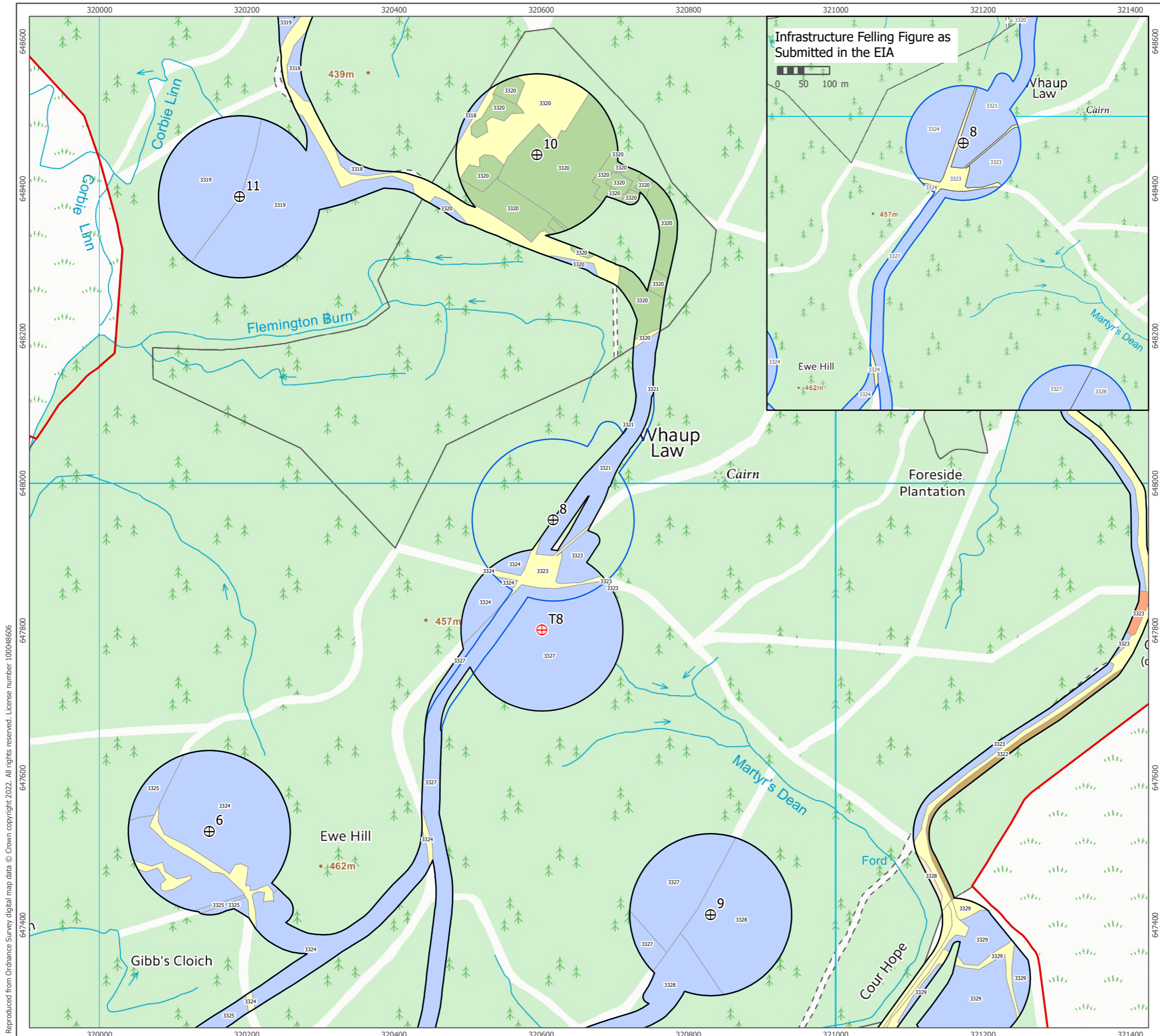


Produced By: MT	Ref: 4519-REP-026
Checked By: SC	Date: 30/09/2022

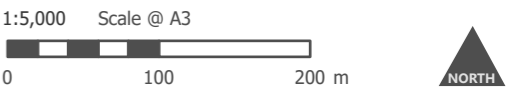
**Noise Contour Plot**  
Figure 11.1

**Cloich Forest Wind Farm  
SEI Report**

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- ⊕ SEI T8 Proposed Location
  - ⊕ EIA Proposed Turbine Location
  - SEI Felling Area
  - EIA Felling Area
  - Site Boundary
- Species
- Douglas Fir
  - Hybrid Larch
  - Larch
  - Mixed Broadleaves
  - Mixed Conifers
  - Norway Spruce
  - Open Ground
  - Sitka Spruce

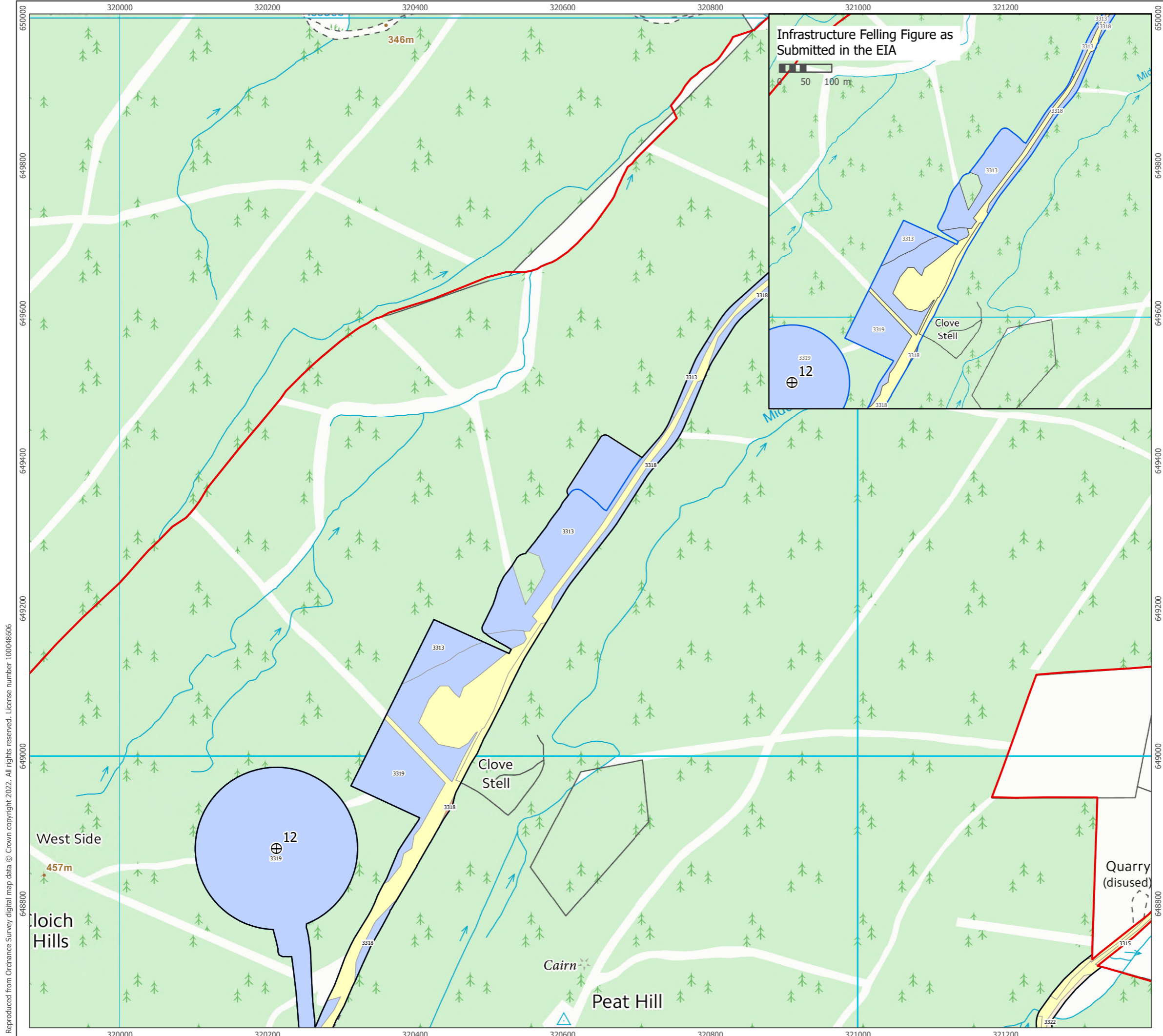


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Checked By: RS	Date: 15/11/2022

**Infrastructure Felling**  
Figure 13.1a

**Cloich Forest Wind Farm**  
**SEI Report**

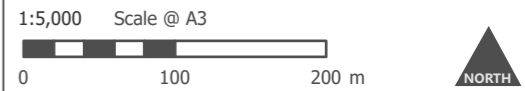
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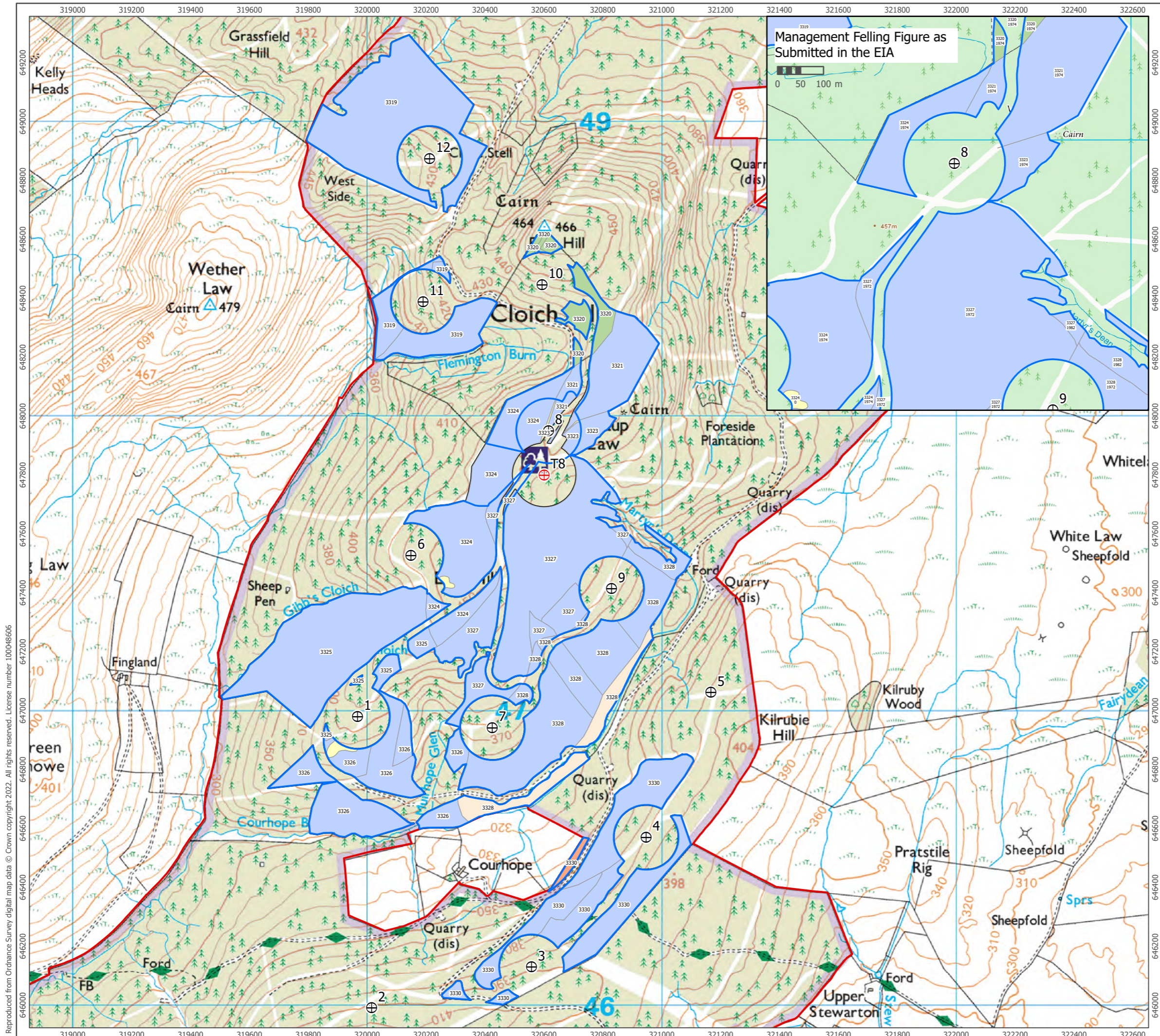
- ⊕ EIA Proposed Turbine Location
- ▭ SEI Felling Area
- ▭ EIA Felling Area
- ▭ Site Boundary
- Species
- ▭ Hybrid Larch
- ▭ Norway Spruce
- ▭ Open Ground
- ▭ Scots Pine
- ▭ Sitka Spruce



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**Infrastructure Felling**  
Figure 13.1b

**Cloich Forest Wind Farm**  
**SEI Report**



- ⊕ SEI T8 Proposed Location
  - ⊕ EIA Proposed Turbine Location
  - SEI Management Felling Area
  - EIA Management Felling Area
  - Site Boundary
- Species
- Hybrid Larch
  - Mixed Conifers
  - Norway Spruce
  - Open Ground
  - Sitka Spruce

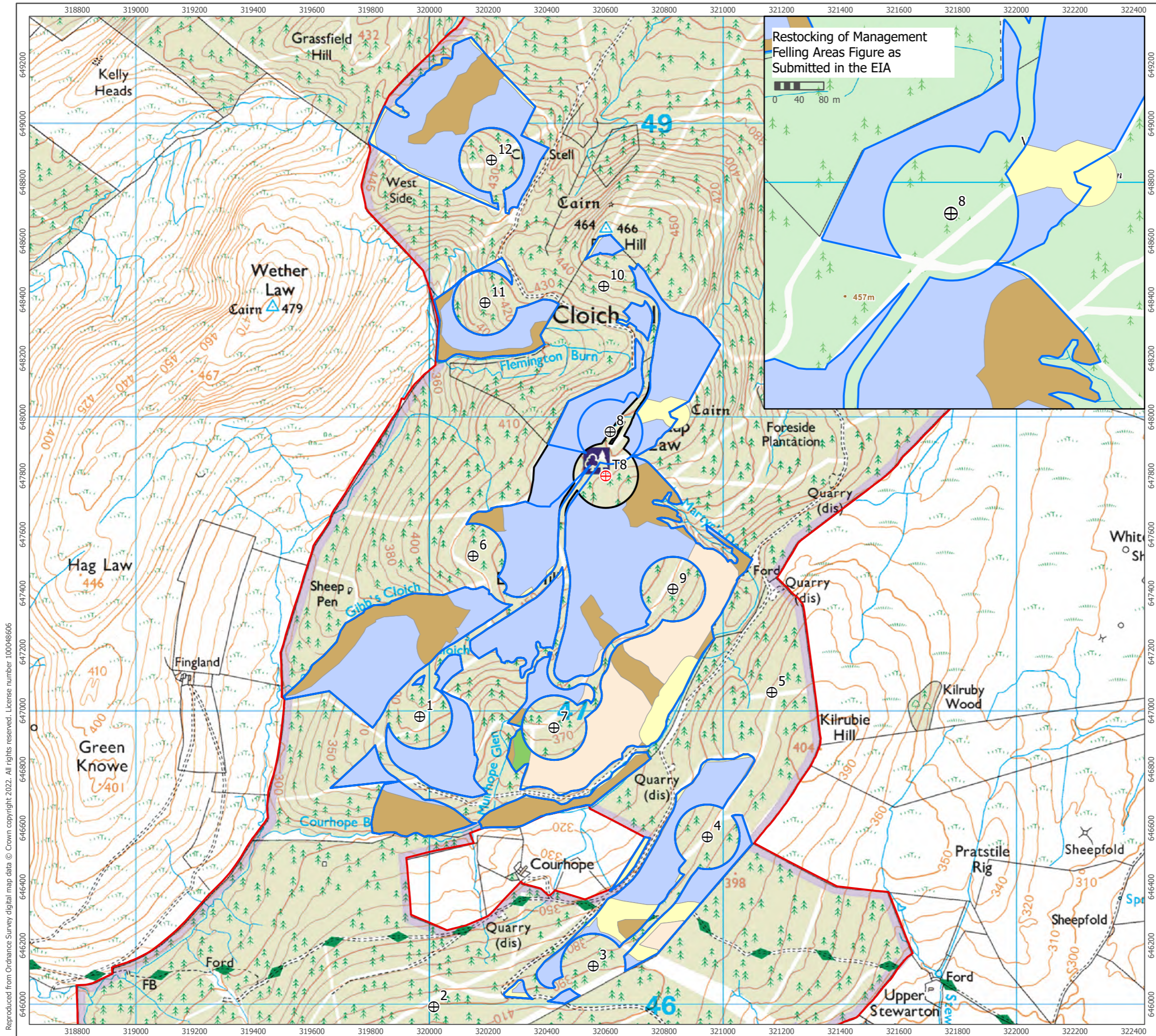
1:12,500 Scale @ A3

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**Management Felling**  
Figure 13.2

**Cloich Forest Wind Farm**  
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- ⊕ SEI T8 Proposed Location
  - ⊕ EIA Proposed Turbine Location
  - Site Boundary
  - SEI Management Felling Area
  - EIA Management Felling Area
- Species
- Mixed Broadleaves
  - Norway Spruce
  - Open Ground
  - Scots Pine
  - Sitka Spruce

1:12,500 Scale @ A3

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Checked By: RS	Date: 04/11/2022

**Restocking of Management Felling Areas**  
Figure 13.3

**Cloich Forest Wind Farm SEI Report**

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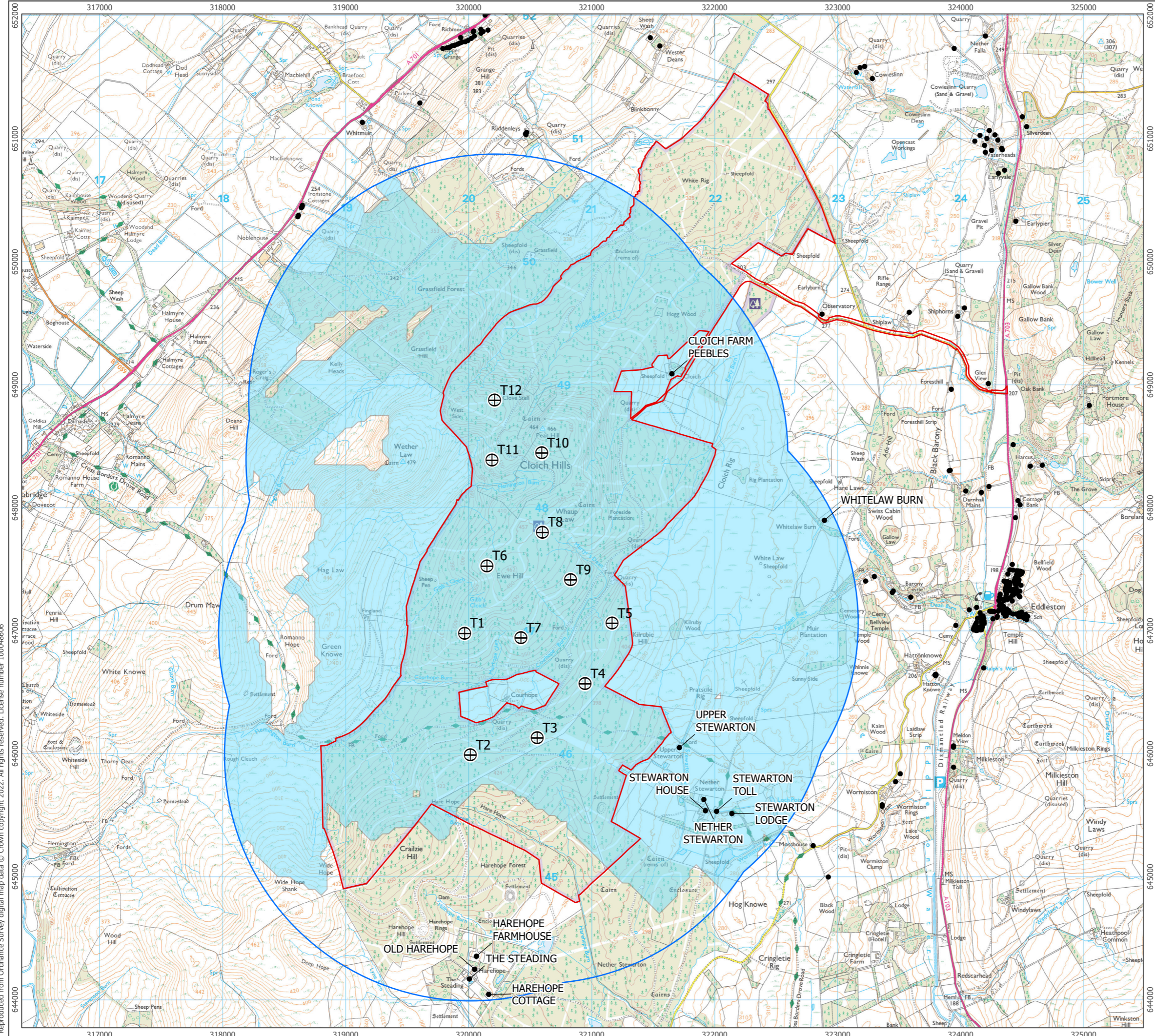
- Site Boundary
- 2 km Study Area
- Shadow Flicker Casting Area
- Proposed Turbine Location
- Residential Dwellings

1:30,000 Scale @ A3  
  
 NORTH

Produced By: MT	Ref: 4519-REP-027
Checked By: SC	Date: 30/09/2022

**Shadow Flicker Study Area  
and Casting Map**  
Figure 17.1

**Cloich Forest Wind Farm  
SEI Report**



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