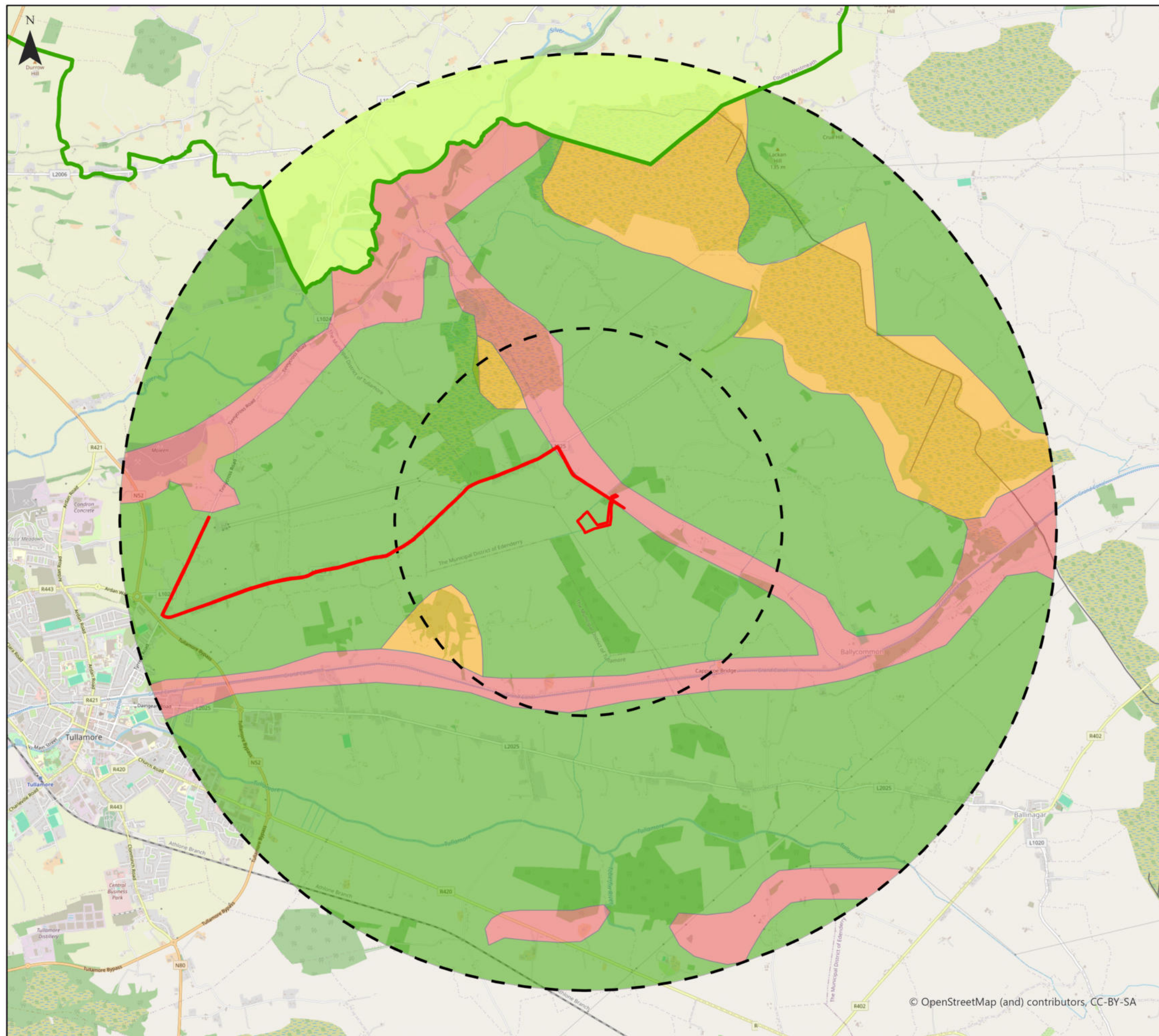





# Colehill 110kV Substation Landscape Sensitivity and Landscape Character Areas Figure 1.1






## Key

-  County Boundary
-  Development Boundary w/ Grid Connection

 2km, 5km Study Areas

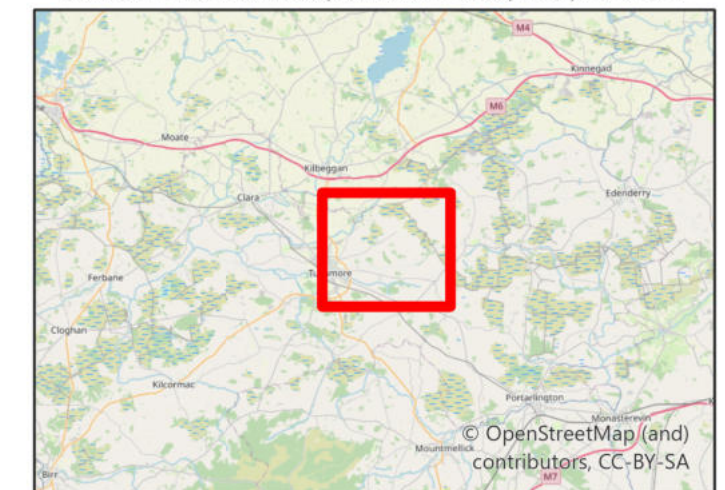
## Landscape Sensitivity

-  High Sensitivity
-  Moderate Sensitivity
-  Low Sensitivity

## Westmeath Landscape Character Areas

-  South Westmeath Eskers

Neo Office Address:  
Johnstown Business Centre, Johnstown House, Naas, Co. Kildare

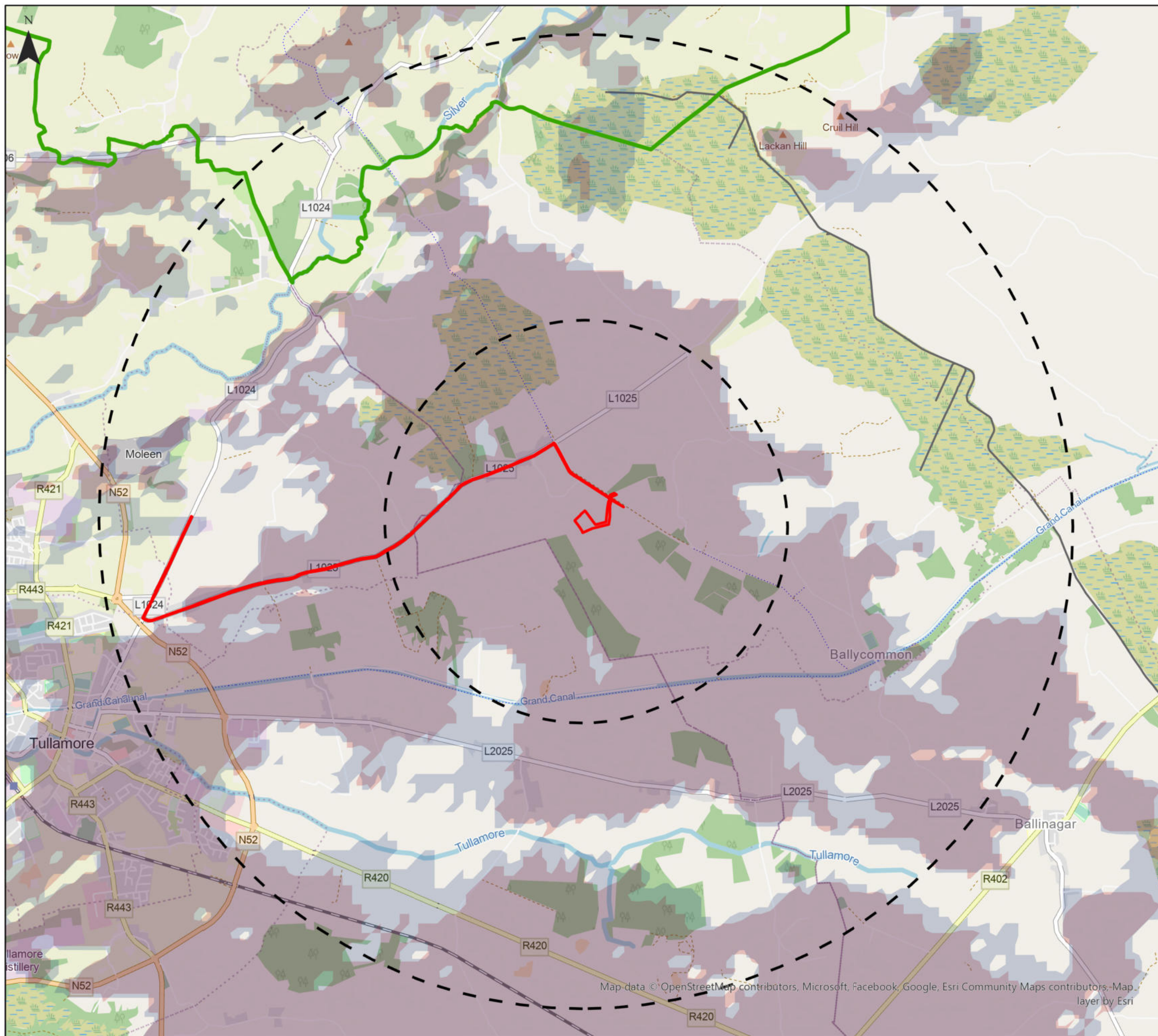


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Date: 18/09/2025  
Drawn By: Shaun Dowse  
Scale (A3): 1:41,636  
Drawing No: NEO01104/0241/A







# Colehill 110kV Substation Zone of Theoretical Visibility (ZTV) Figure 1.2

## Key

- County Boundary
- Development Boundary w/ Grid Connection
- 2km, 5km Study Areas

## Zone of Theoretical Visibility (ZTV)

- Masts and Comms Tower (Upper 6m)
- Control Building and Transformers
- Both Features Theoretically Visible

## Notes on ZTV Methodology:

The development has been interpreted as a series of spot heights: points at 12m height represent 2/3 of the total height of the 18m Lightning Masts; and a matrix of points 8.4m high represent the proposed Control Building. Ground levels are sourced from the OSi National DTM 10m Height Data - Series 2 (accuracy +/- 1.5m).

The ZTV was calculated on a worst case scenario i.e. no account has been made for screening effects of woodlands, hedges, homesteads, farm buildings or urban areas etc.

The viewer eye-level for the ZTV is 1.7m as recommended in the GLVIA v3 (Landscape Institute, 2013). The ZTV takes into account earth curvature and atmospheric refraction.

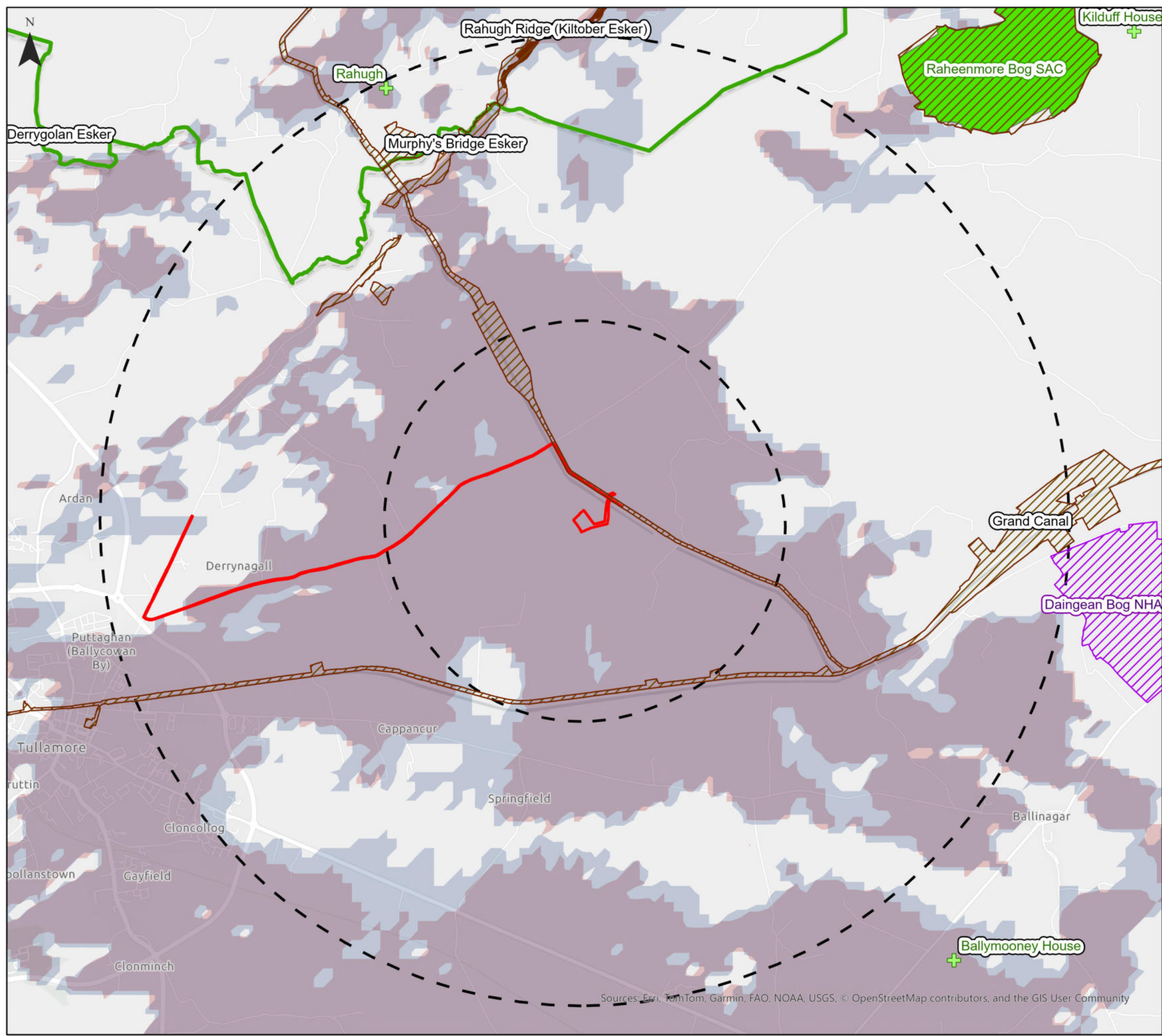
Neo Office Address:  
BIA INNOVATOR CAMPUS, Ballygarraun West, Co. Galway, H65 DD86



Date: 18/09/2025  
Drawn By: Shaun Dowse  
Scale (A3): 1:40,000  
Drawing No: NEO01104/025I/A







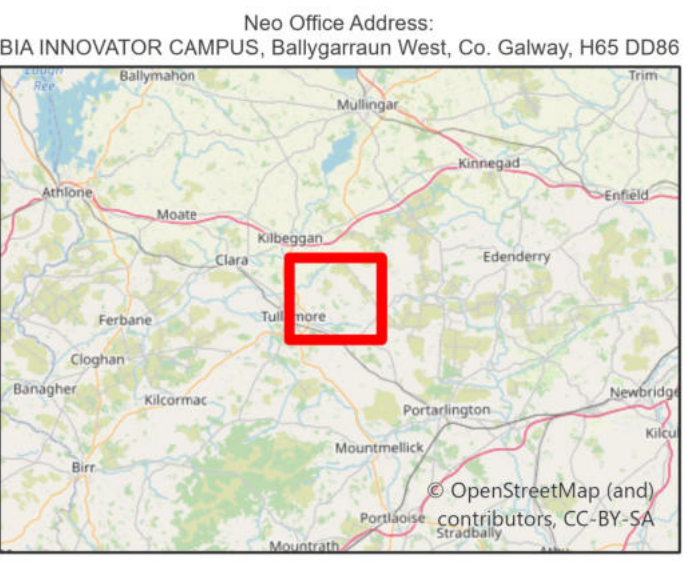
Colehill 110kV Substation  
Landscape Designations with  
Zone of Theoretical Visibility  
Figure 1.3

Key

- County Boundary
- Development Boundary w/ Grid Connection
- 2km, 5km Study Areas
- Natural Heritage Area (NHA)
- Proposed Natural Heritage Area
- Nature Reserve / SAC
- Ancient and Long Established Woodland
- Gardens and Designed Landscapes

**Zone of Theoretical Visibility (ZTV)**

- Masts and Comms Tower (Upper 6m)
- Control Building and Transformers
- Both Features Theoretically Visible




Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community



# Colehill 110kV Substation Viewpoint Locations with Zone of Theoretical Visibility Figure 1.4

Key

 110kV Substation Boundary

 2km, 5km Study Areas

 Viewpoint Locations

**Ireland's Cycle Network (Proposed)**

 Greenway

 Inter-Urban

 Urban Primary

**Local Road Schedule**

 Local Primary

 Local Secondary

 Local Tertiary

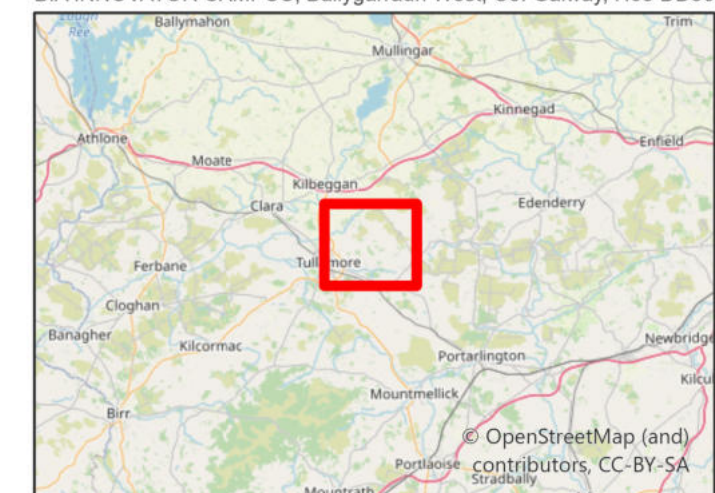
**Zone of Theoretical Visibility (ZTV)**

 Masts and Comms Tower (Upper 6m)

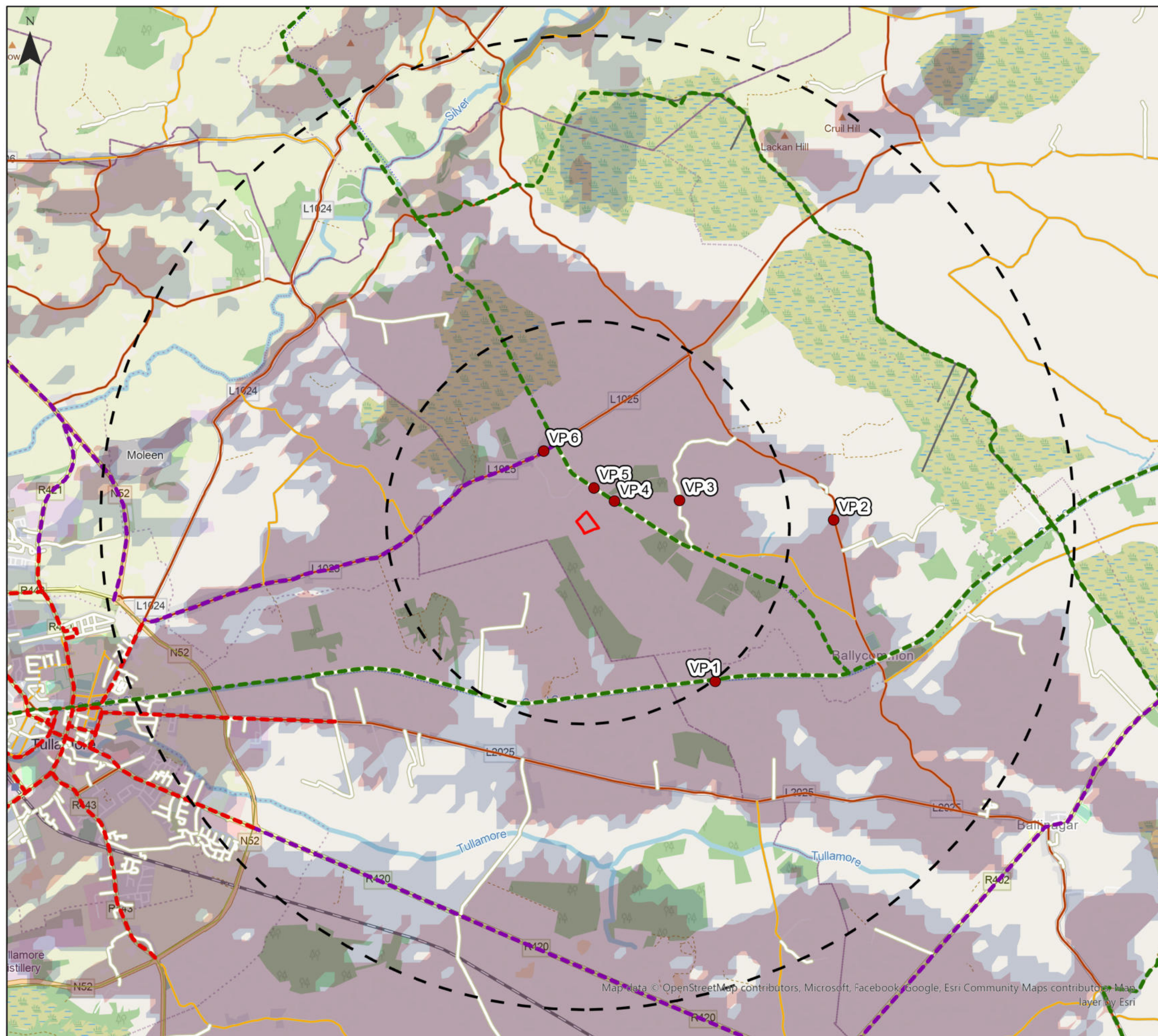
 Control Building and Transformers

 Both Features Theoretically Visible

Neo Office Address:  
BIA INNOVATOR CAMPUS, Ballygarraun West, Co. Galway, H65 DD86



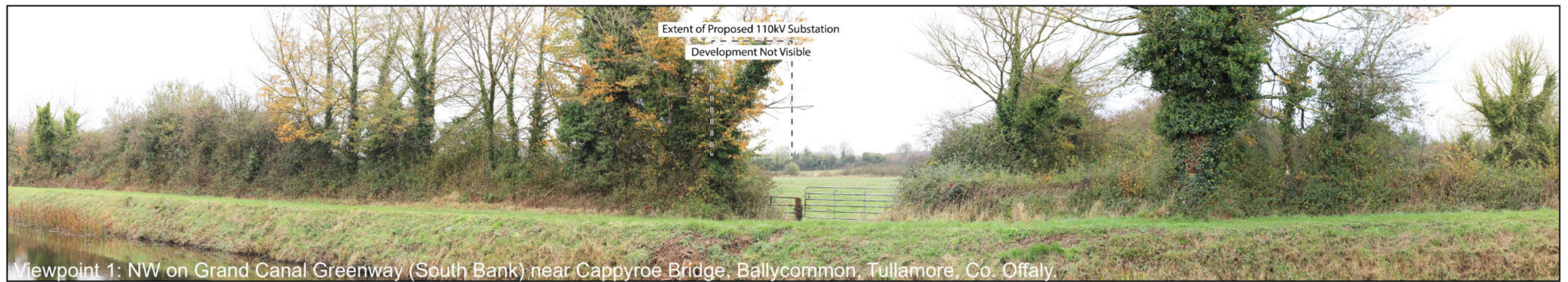
Date: 22/09/2025  
Drawn By: Shaun Dowse  
Scale (A3): 1:40,000  
Drawing No: NEO01104/0271/A



0 5 Kilometres

Map data © OpenStreetMap contributors, Microsoft, Facebook, Google, Esri Community Maps contributors, Map layer by Esri

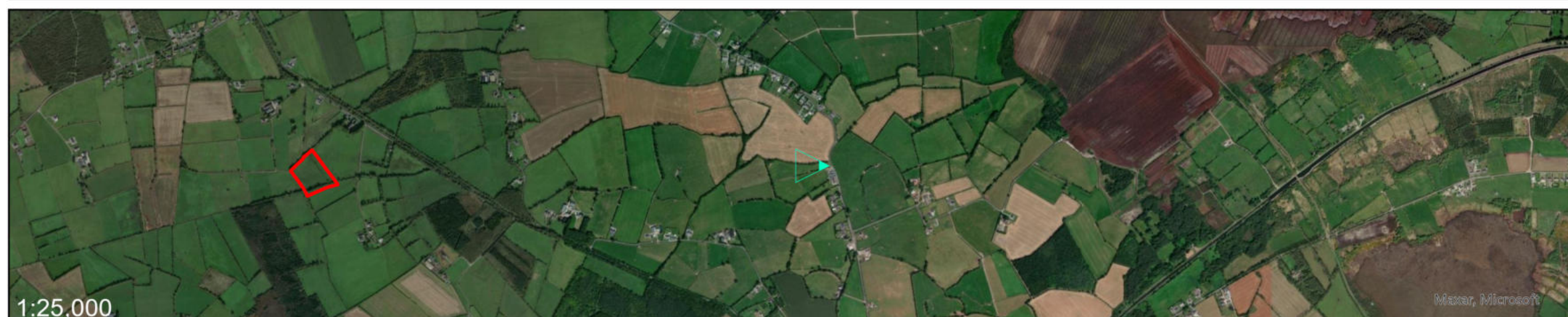




OS Reference: E240737 N225667  
 Eye Level: 74.5m  
 Direction of View: 320°  
 Distance to Site: 2.100km

Horizontal Field of View: 90 Degrees  
 Vertical Field of View: 18.7 Degrees  
 Paper Size (A3): 420x270mm

Camera: Canon 6D  
 Lens: 50mm  
 Camera Height: 1.5m AGL  
 View flat at comfortable arm's length

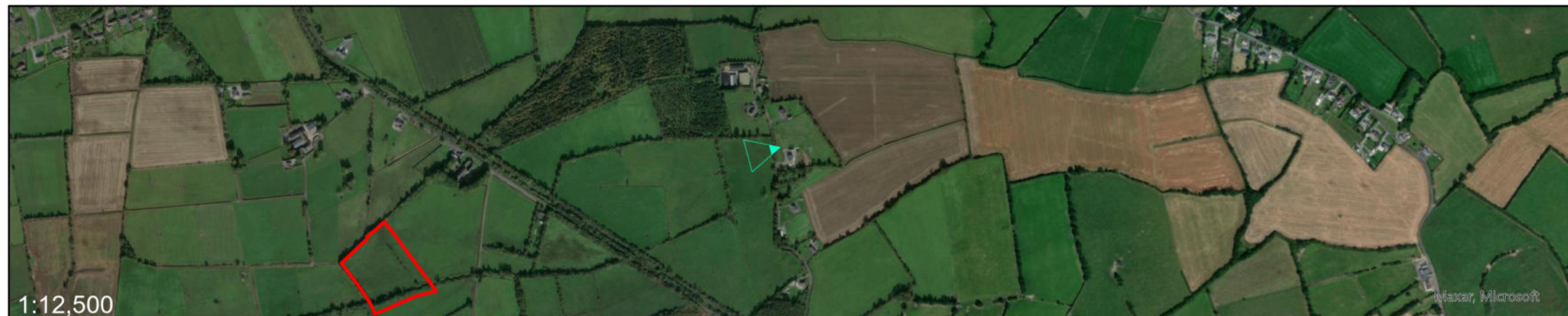
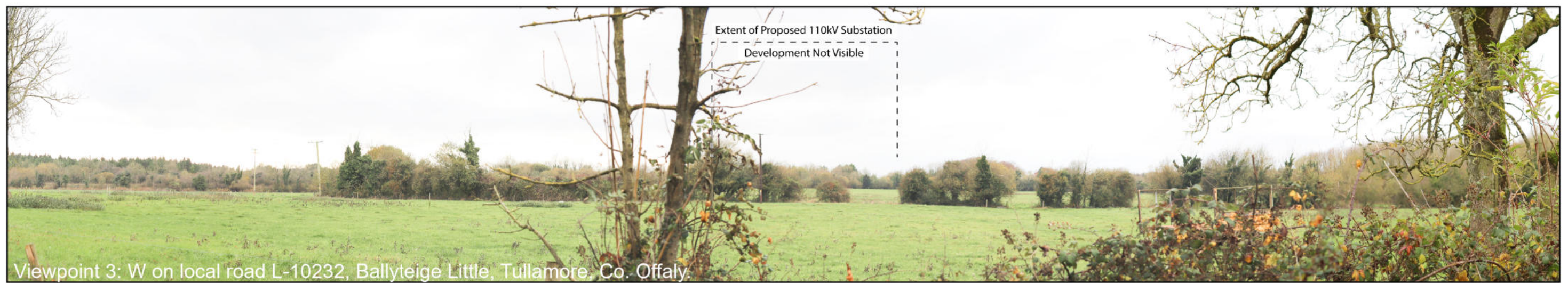


OS Reference: E241979 N227362  
 Eye Level: 90.5m  
 Direction of View: 270°  
 Distance to Site: 2.500km

Horizontal Field of View: 90 Degrees  
 Vertical Field of View: 18.7 Degrees  
 Paper Size (A3): 420x270mm

Camera: Canon 6D  
 Lens: 50mm  
 Camera Height: 1.5m AGL  
 View flat at comfortable arm's length

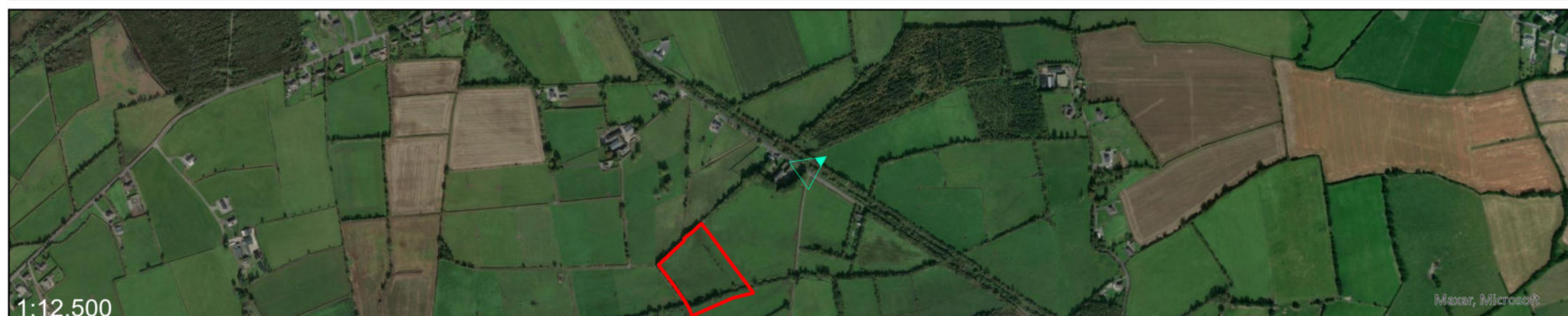




OS Reference: E240632 N227566  
Eye Level: 85.5m  
Direction of View: 255°  
Distance to Site: 0.930km

Horizontal Field of View: 90 Degrees  
Vertical Field of View: 18.7 Degrees  
Paper Size (A3): 420x270mm

Camera: Canon 6D  
Lens: 50mm  
Camera Height: 1.5m AGL  
View flat at comfortable arm's length



OS Reference: E239679 N227559  
Eye Level: 81.5m  
Direction of View: 235°  
Distance to Site: 0.330km

Horizontal Field of View: 90 Degrees  
Vertical Field of View: 18.7 Degrees  
Paper Size (A3): 420x270mm

Camera: Canon 6D  
Lens: 50mm  
Camera Height: 1.5m AGL  
View flat at comfortable arm's length

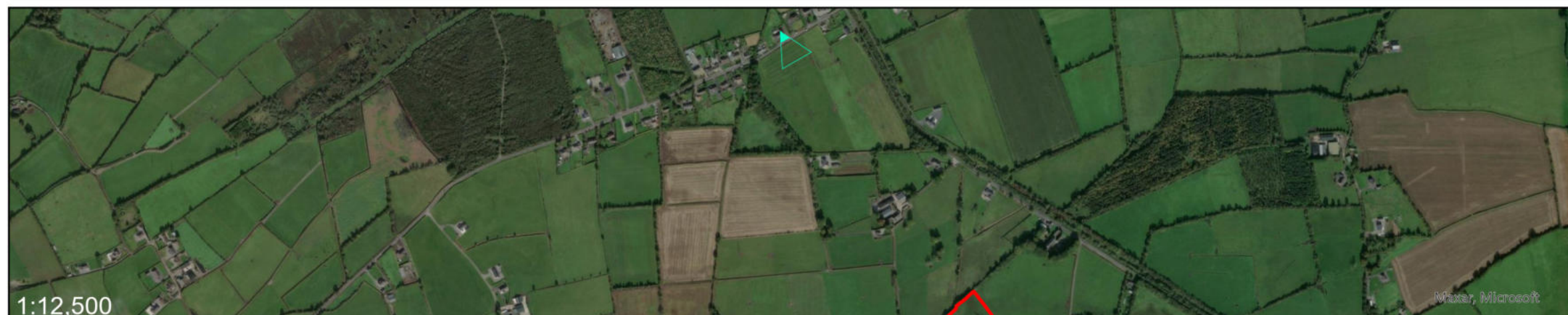




OS Reference: E239464 N227697  
Eye Level: 79.5m  
Direction of View: 195°  
Distance to Site: 0.290km

Horizontal Field of View: 90 Degrees  
Vertical Field of View: 18.7 Degrees  
Paper Size (A3): 420x270mm

Camera: Canon 6D  
Lens: 50mm  
Camera Height: 1.5m AGL  
View flat at comfortable arm's length



OS Reference: E238937 N228085  
Eye Level: 79.5m  
Direction of View: 150°  
Distance to Site: 0.780km

Horizontal Field of View: 90 Degrees  
Vertical Field of View: 18.7 Degrees  
Paper Size (A3): 420x270mm

Camera: Canon 6D  
Lens: 50mm  
Camera Height: 1.5m AGL  
View flat at comfortable arm's length



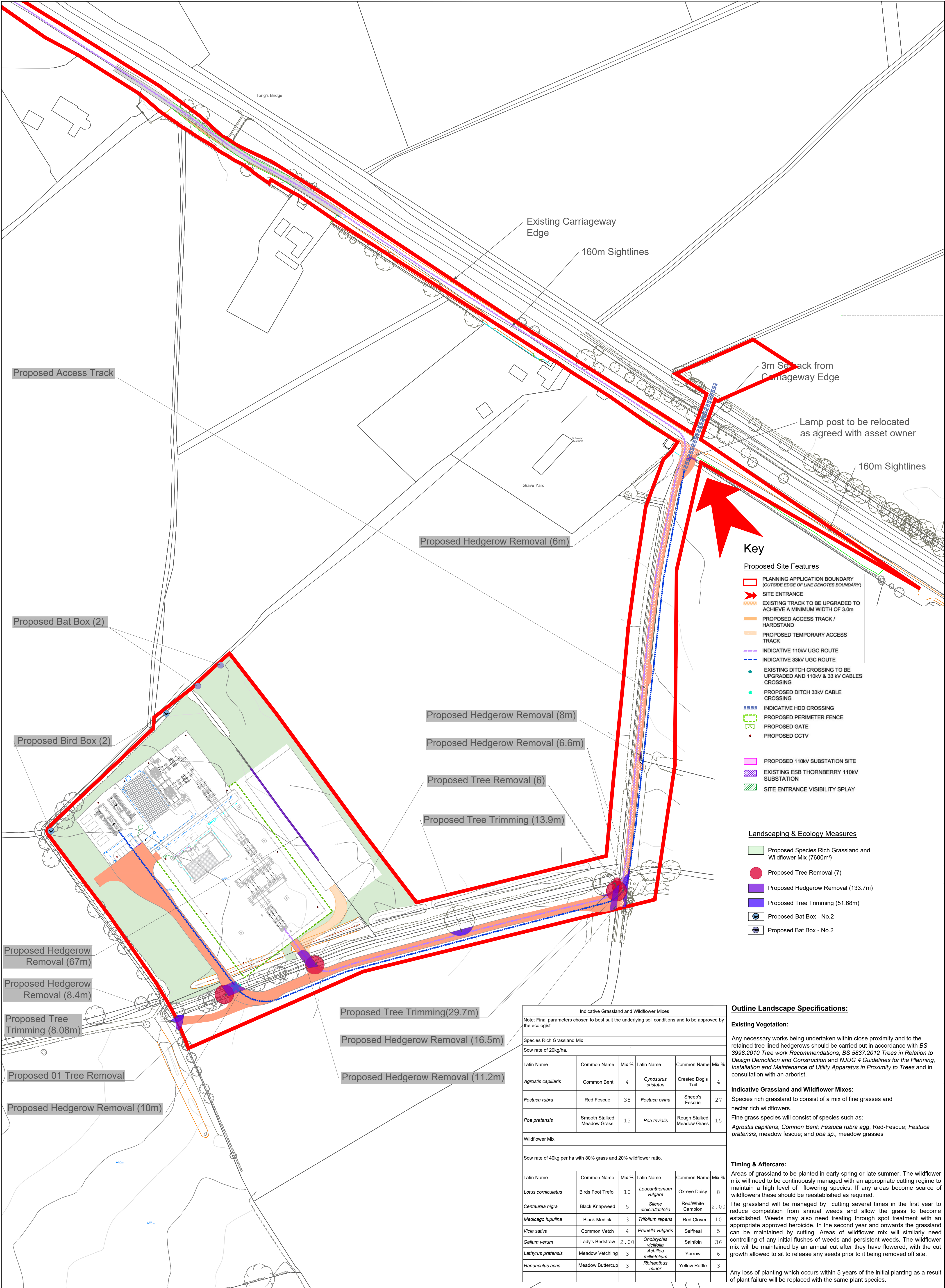






Figure: 1.9  
Viewpoint 4 - View looking West from the Ballyteige Little Road, East of the Proposed 110kV Substation.



