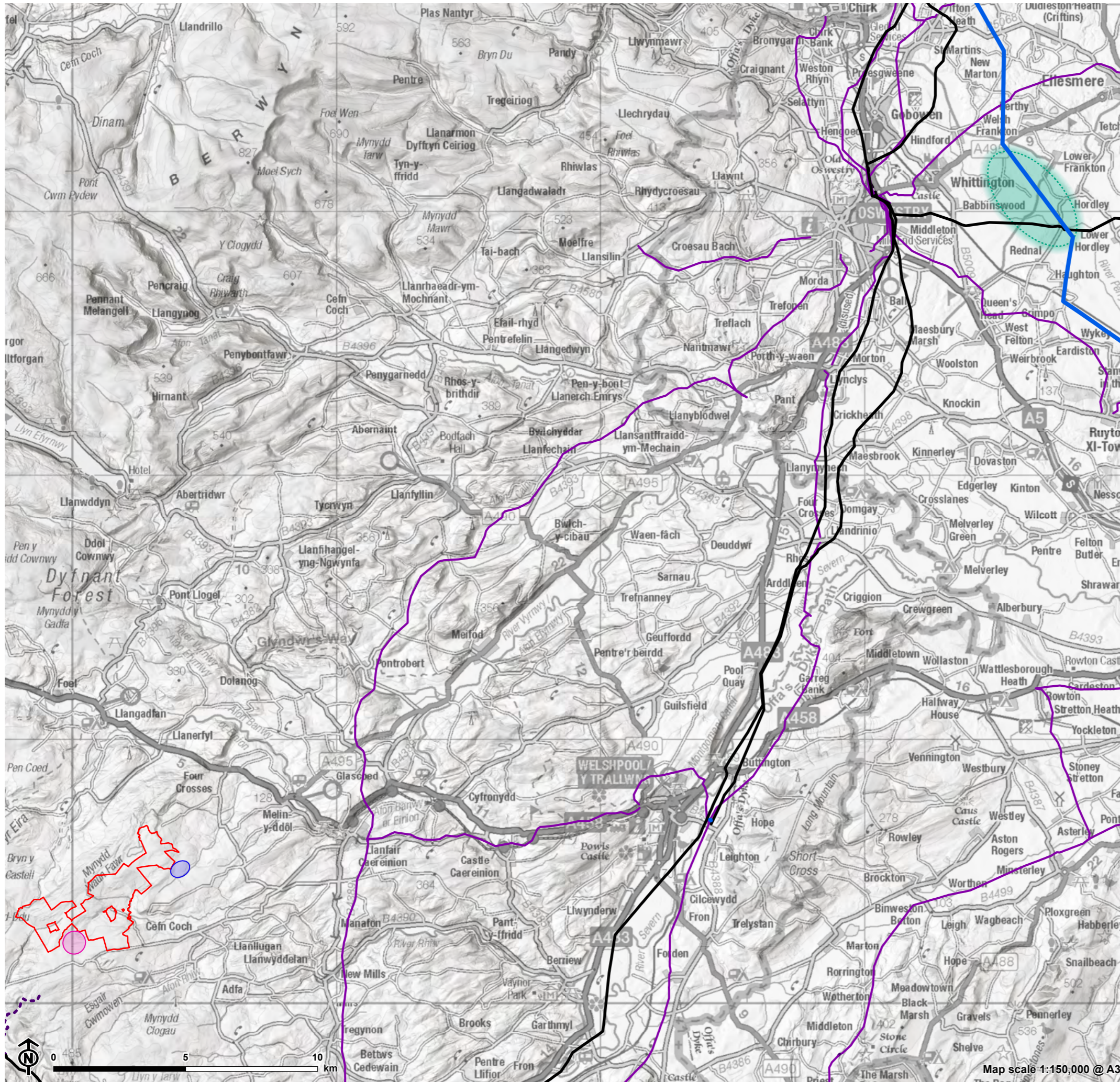


# **GREEN GEN CYMRU Green GEN Vyrnwy Frankton Scoping Report**

**January 2024**

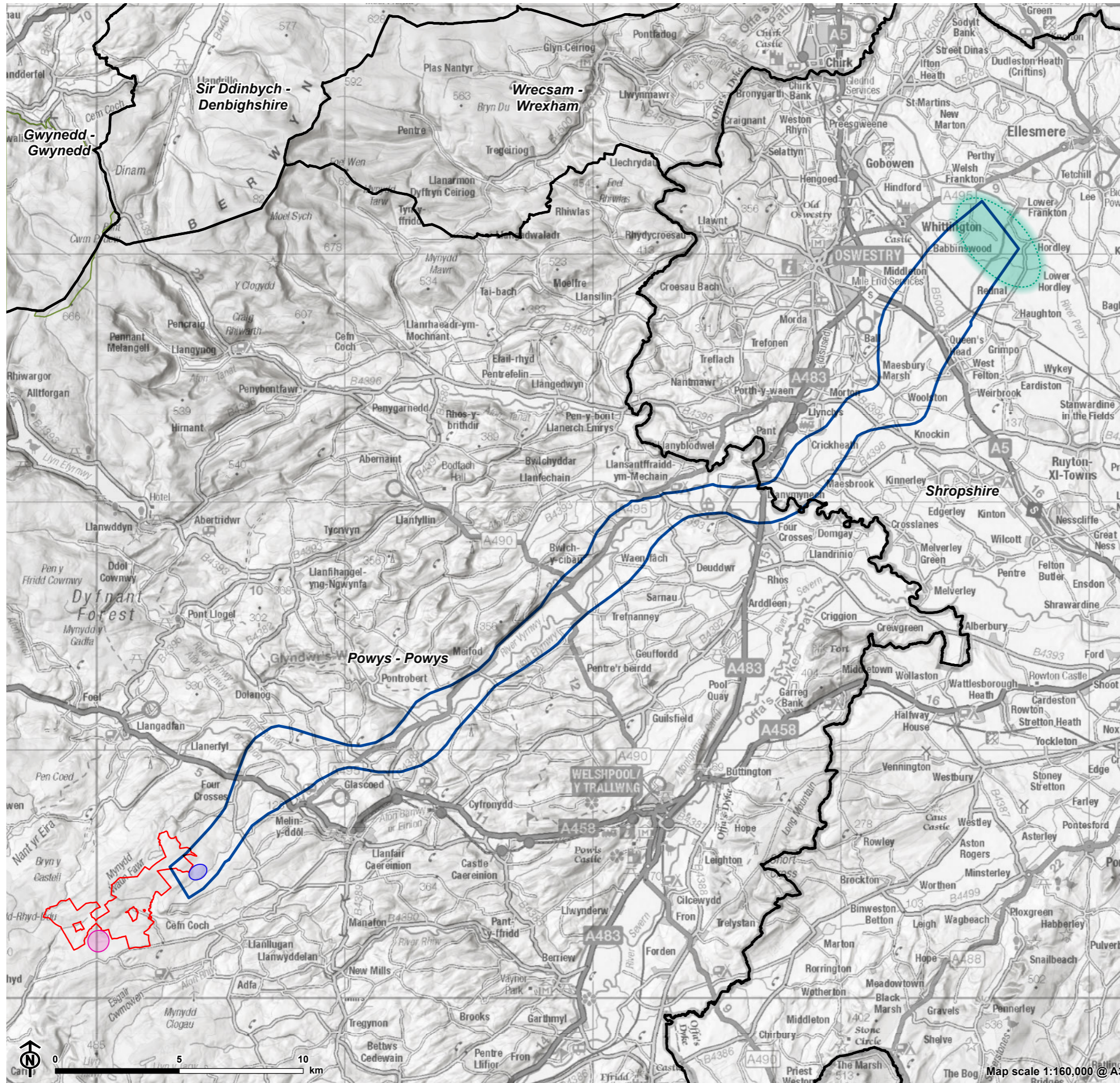
**Appendix D**  
**Figures 1.1-7.10**

Figure 1.1: Existing Network and Points of Connection



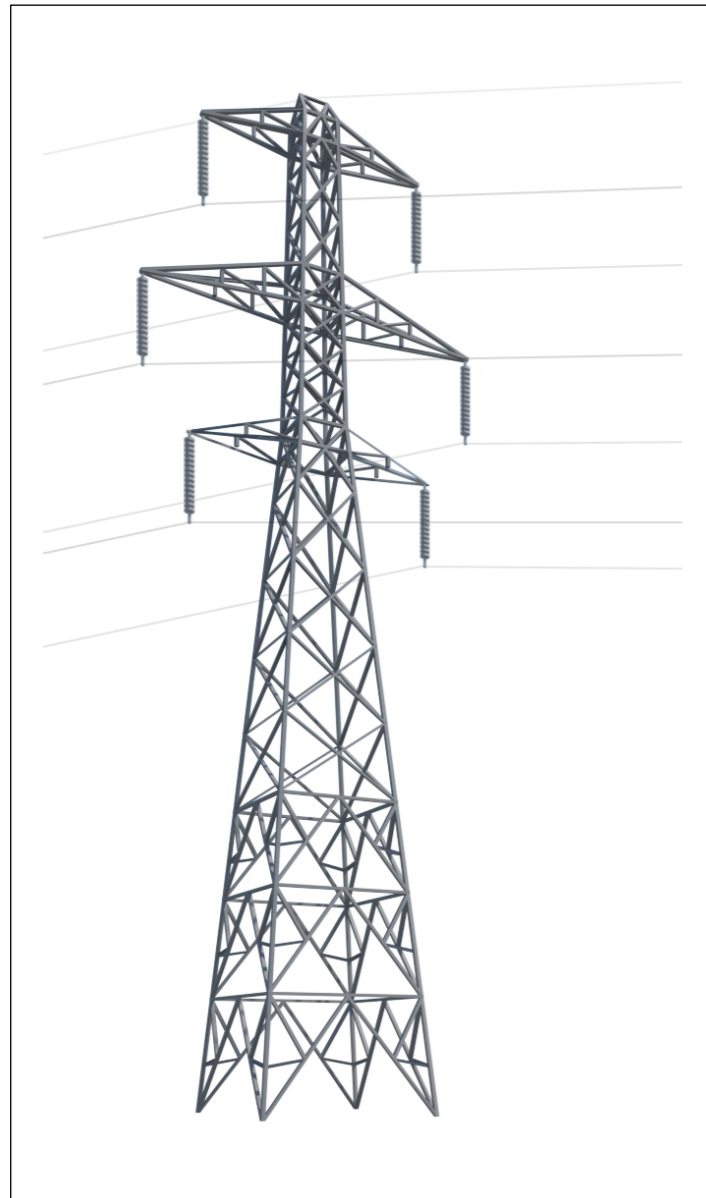
- Llyn Lort Energy Park
  - Search Area for National Grid Substation (Not included in project)
  - Preferred Cable Sealing End Compound (CSEC) Search Area
  - Preferred Collector Substation Search Area
- Overhead Line (OHL)**
- 400kV
  - 132kV
  - 33kV
- Underground Cable (UGC)**
- 132kV
  - 33kV

Figure 1.2: Project Location

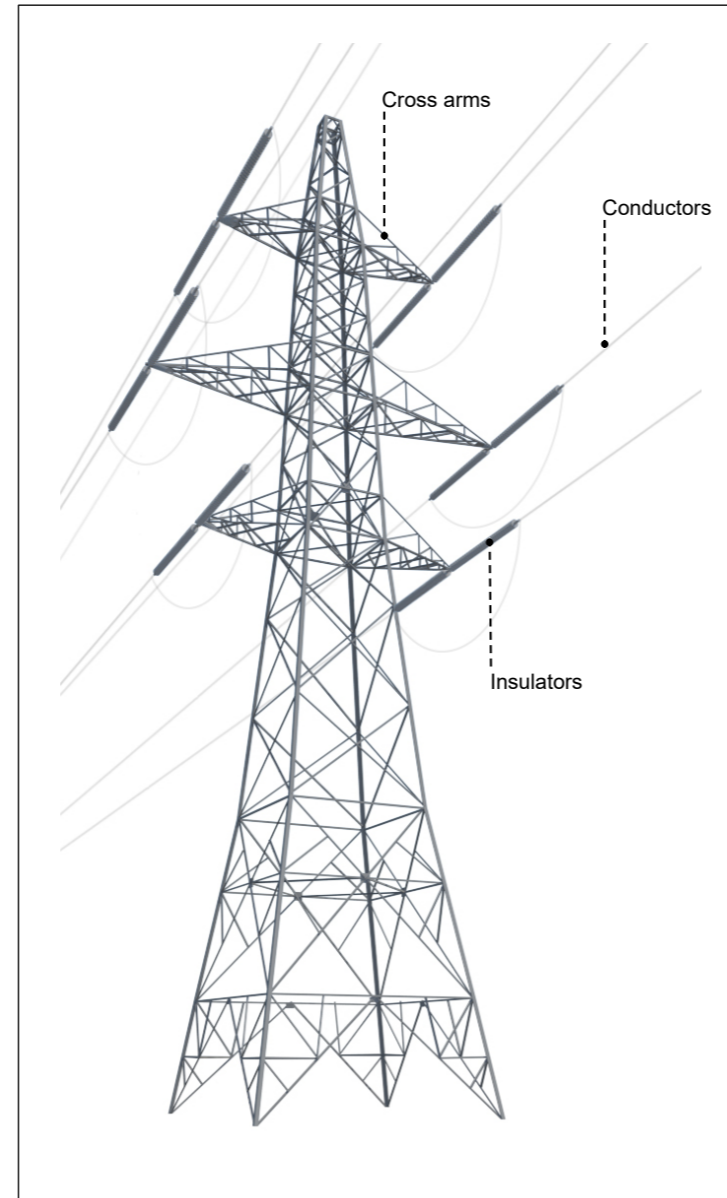


- Scoping Corridor
- Llyn Lort Energy Park
- Search Area for National Grid Substation (Not included in project)
- Preferred Collector Substation Search Area
- Preferred Cable Sealing End Compound (CSEC) Search Area
- Local Authority Boundary
- Eryri National Park

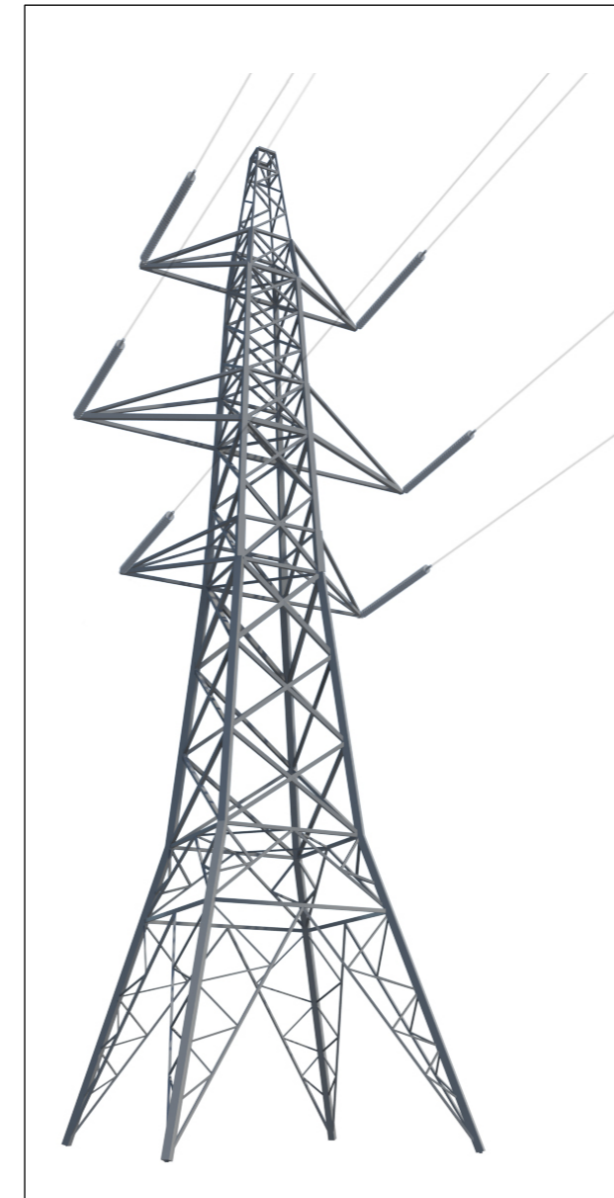
**Figure 3.1: Proposed Tower Type**



Component parts of 132kV steel lattice tower L7: Suspension tower



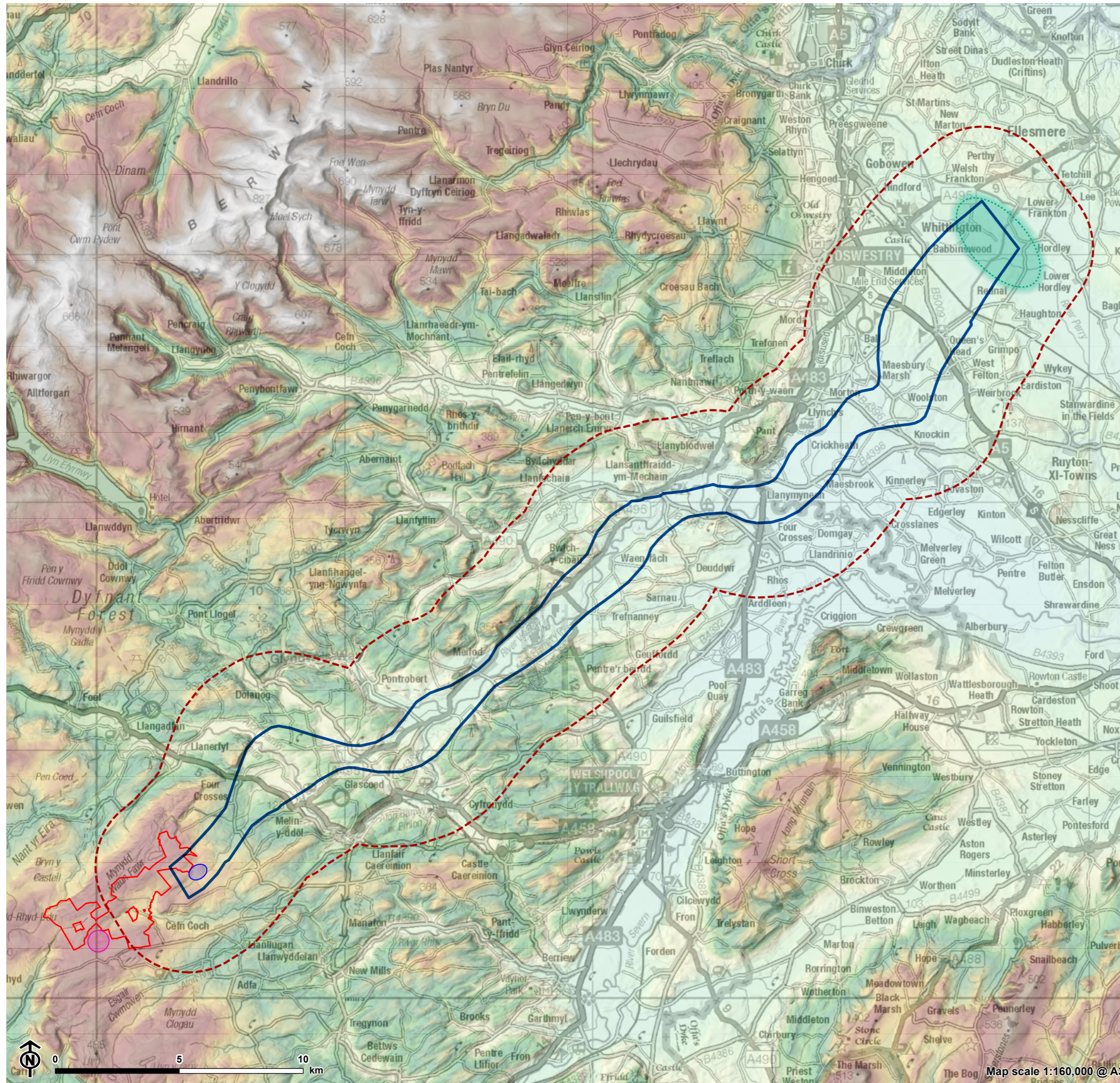
Component parts of 132kV steel lattice tower L7: Angle tower



Component parts of 132kV steel lattice tower L7: Terminal tower

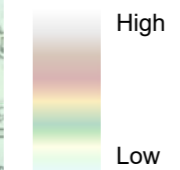
**NOT TO SCALE**

Figure 7.1: Provisional LVIA Study Area

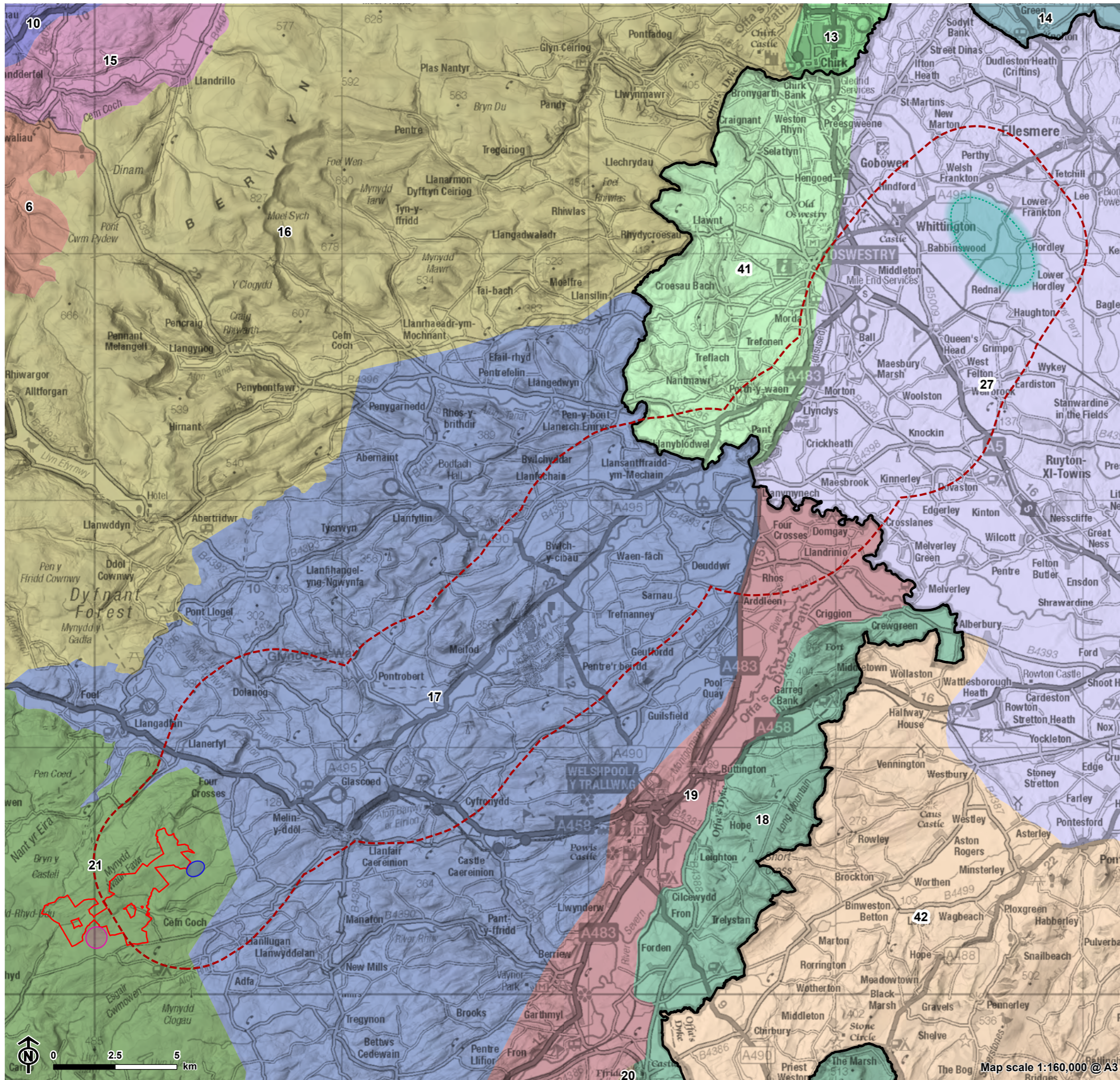


- Provisional LVIA Study Area
- Scoping Corridor
- Llyn Lort Energy Park
- Search Area for National Grid Substation (Not included in project)
- Preferred Collector Substation Search Area
- Preferred Cable Sealing End Compound (CSEC) Search Area

**Elevation (Above Ordnance Datum)**



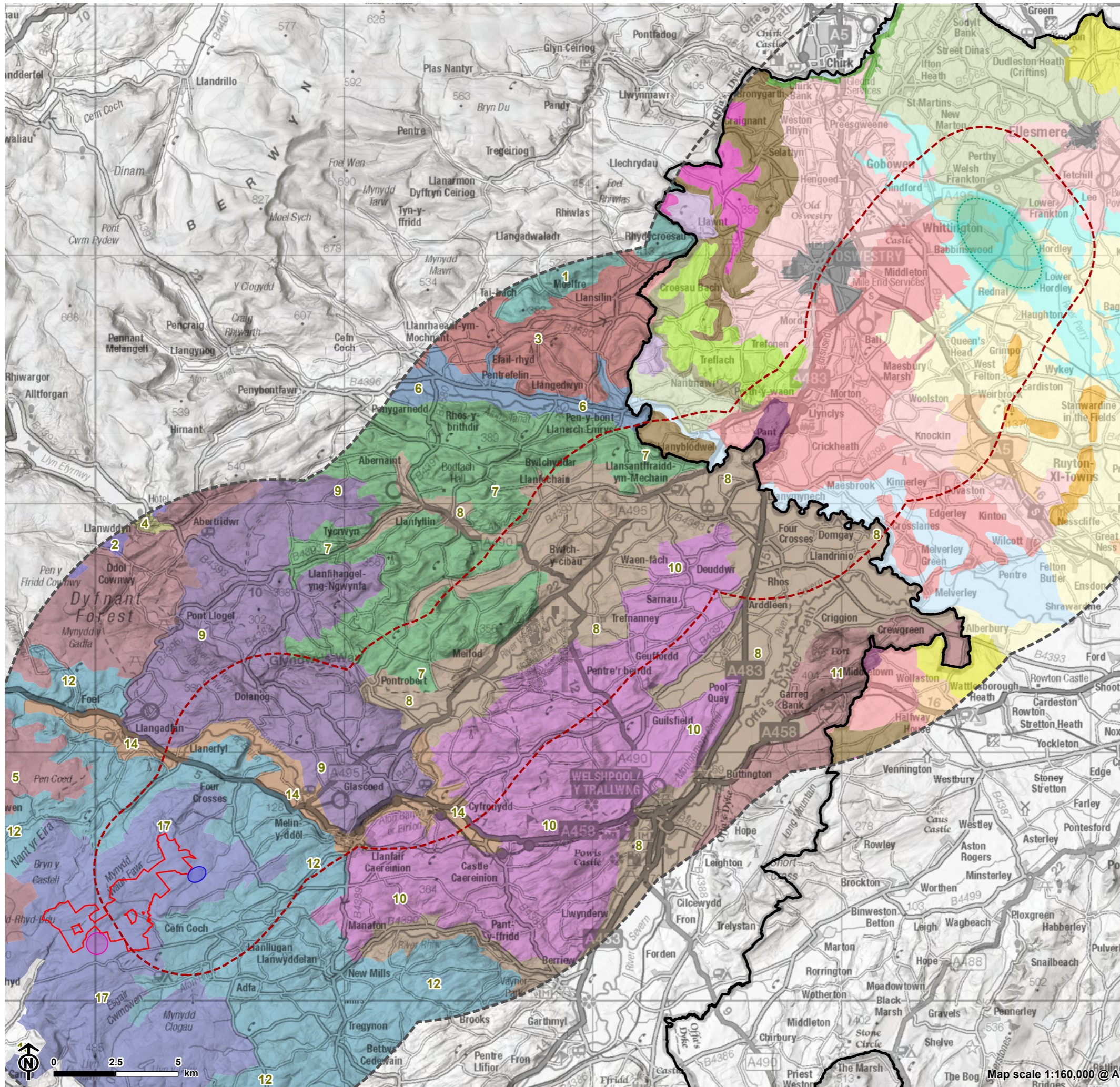
Map scale 1:160,000 @ A3



**Figure 7.2a National Landscape Character Areas**

- Provisional LVIA Study Area
  - Llyn Lort Energy Park
  - Search Area for National Grid Substation (Not included in project)
  - Preferred Collector Substation Search Area
  - Preferred Cable Sealing End Compound (CSEC) Search Area
  - Wales - England Border
- National Landscape Character Areas (Wales)**
- 6: Eryri/Snowdonia
  - 10: Mynydd Hiraethog/Denbigh Moors
  - 13: Glannau Dyfrdwy a Wrecsam/Deeside and Wrexham
  - 14: Maelor Saesneg/Maelor
  - 15: Dyffryn Dyfrdwy a Llangollen/Llangollen and the Vale of Dee
  - 16: Y Berwyn/Berwyn
  - 17: Bryniau a Dyffrynnoedd Trefaldwyn/Montgomeryshire Hills and Vales
  - 18: Bryniau Sir Amwythig (rhan)/Shropshire Hills (part)
  - 19: Dyffryn Hafren/Severn Valley
  - 20: Bryniau Maesyfed/Radnorshire Hills
  - 21: Uwchdiroedd Cymru/Cambrian Mountains
- National Landscape Character Areas (England)**
- 27: Mosses and Meres
  - 41: Oswestry Uplands
  - 42: Shropshire Hills

Figure 7.2b Local Landscape Character Areas



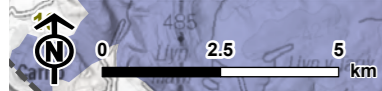
- Provisional LVIA Study Area
- Llyn Lort Energy Park
- 10km from Preferred Corridor
- Search Area for National Grid Substation (Not included in project)
- Preferred Collector Substation Search Area
- Preferred Cable Sealing End Compound (CSEC) Search Area
- Wales - England Border

**Shropshire Landscape Character Assessment**

- High enclosed plateau
- Upland smallholdings
- Upstanding enclosed commons
- Pasture hills
- Wooded river gorge
- Wooded hills & farmlands
- Sandstone hills
- Timbered plateau farmlands
- Principal timbered farmlands
- Wooded estate lands
- Estate farmlands
- Settled pastoral farmlands
- Principal settled farmlands
- Enclosed lowland heaths
- Lowland moors
- Riverside meadows
- Urban

**Powys Landscape Character Assessment**

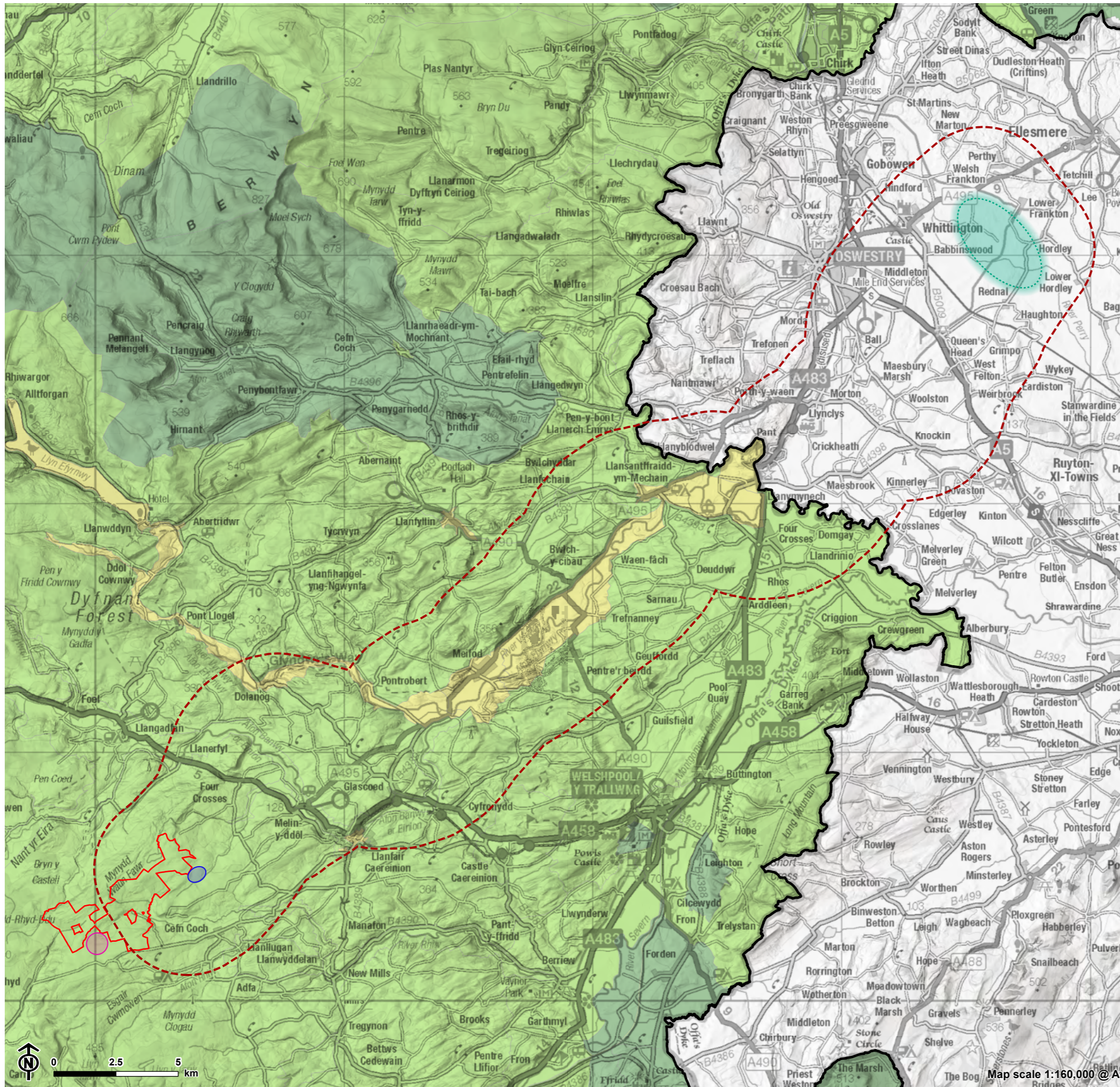
- 1 - Berwyn Foothills
- 2 - Berwyn Mountains
- 3 - Llanrhaeadr
- 4 - Llyn Efyrrwy
- 5 - Dyfnant Forest/Llanbrynmair moors
- 6 - Tanat Valley
- 7 - Llanfyllin Farmlands
- 8 - Severn Farmlands
- 9 - Pont Llogel
- 10 - Guilsfield
- 11 - Long Mountain/Breidden Hills
- 12 - Tregynon
- 14 - Banwy Valley
- 17 - Esgair Cwmowen



Map scale 1:160,000 @ A3

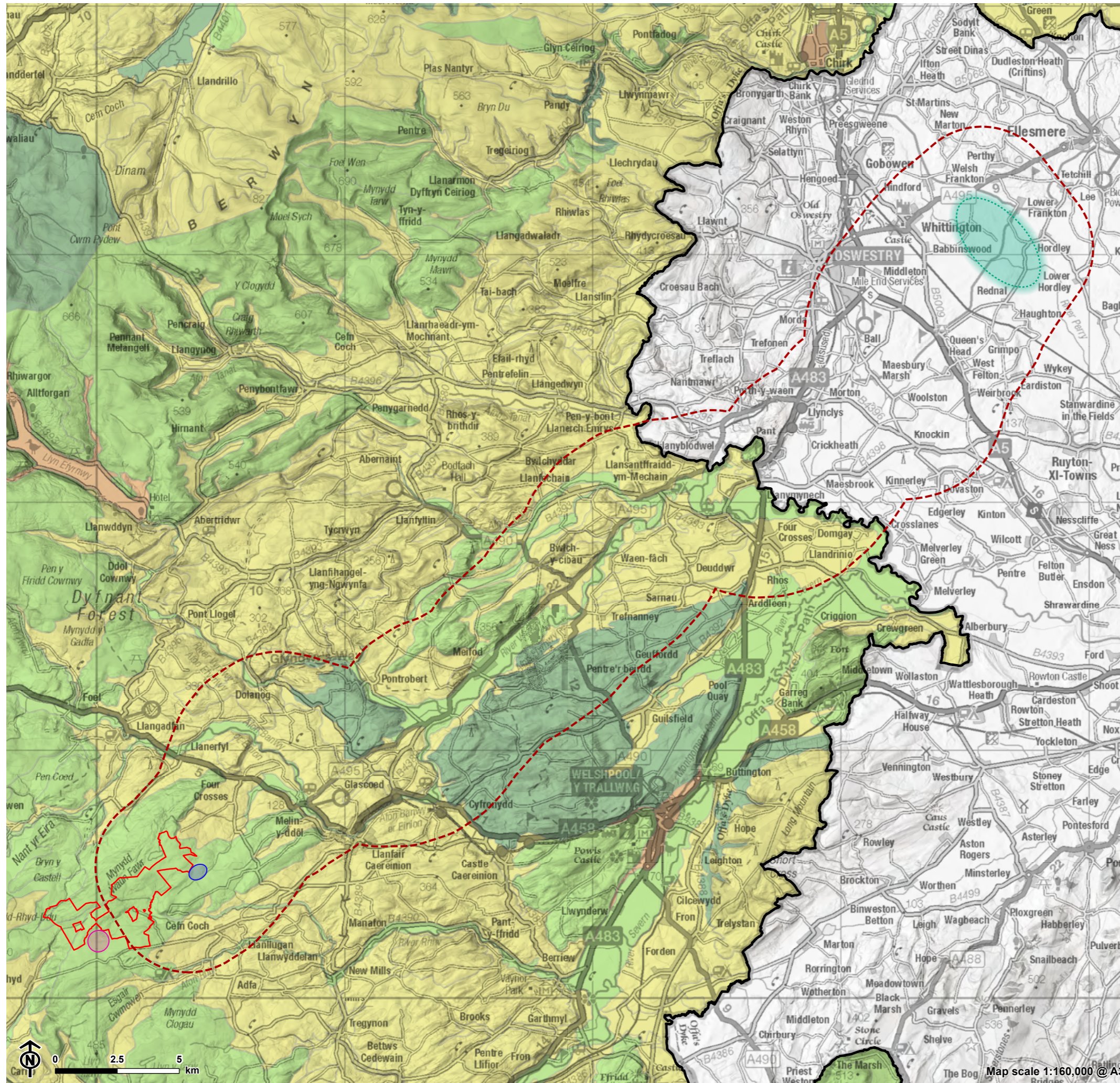


Figure 7.3: LANDMAP Cultural Landscape



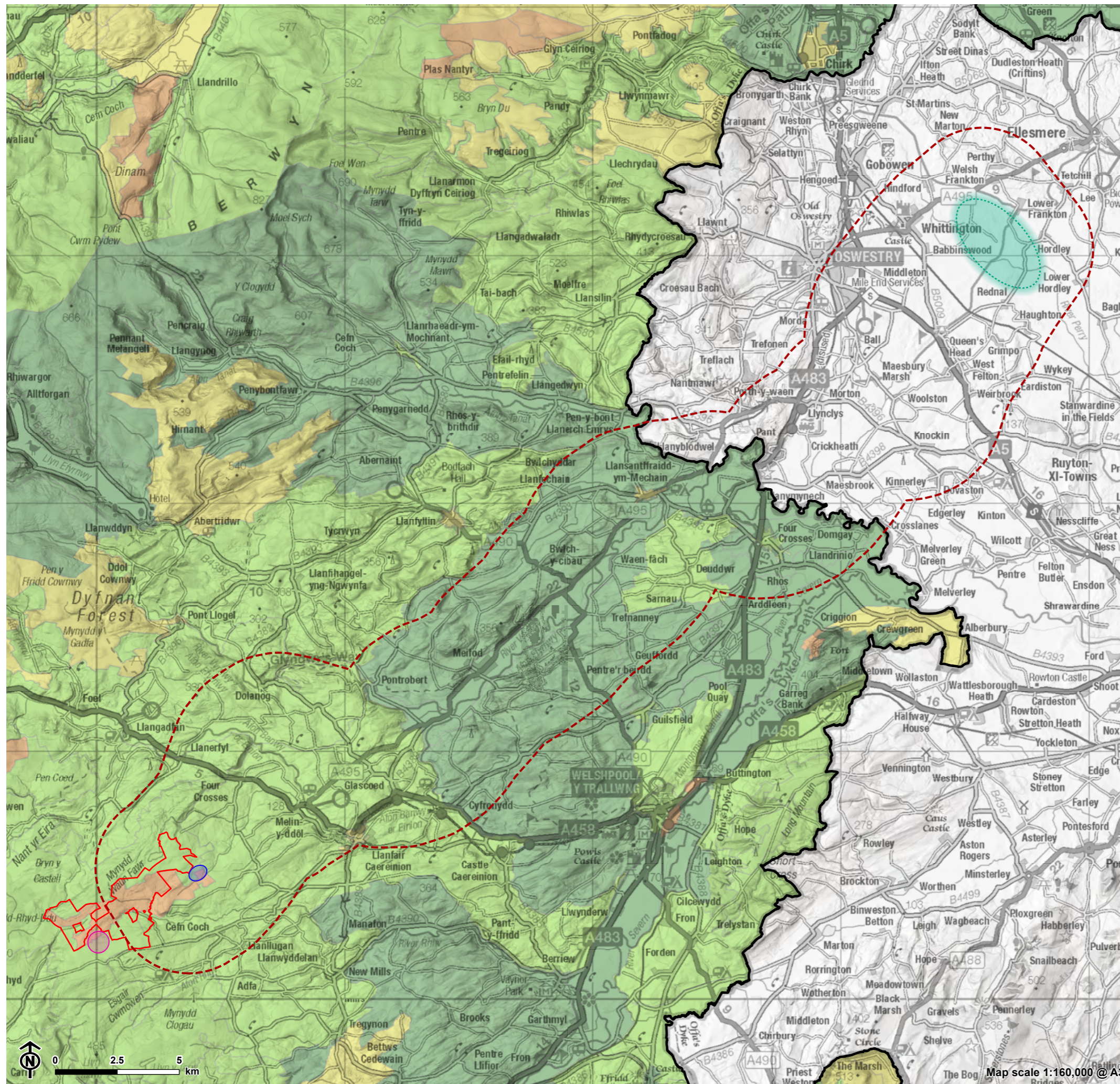
- Provisional LVIA Study Area
  - Llyn Lort Energy Park
  - Search Area for National Grid Substation (Not included in project)
  - Preferred Collector Substation Search Area
  - Preferred Cable Sealing End Compound (CSEC) Search Area
  - Wales - England Border
- LANDMAP**
- Outstanding
  - High
  - Moderate

Figure 7.4: LANDMAP Geological Landscape



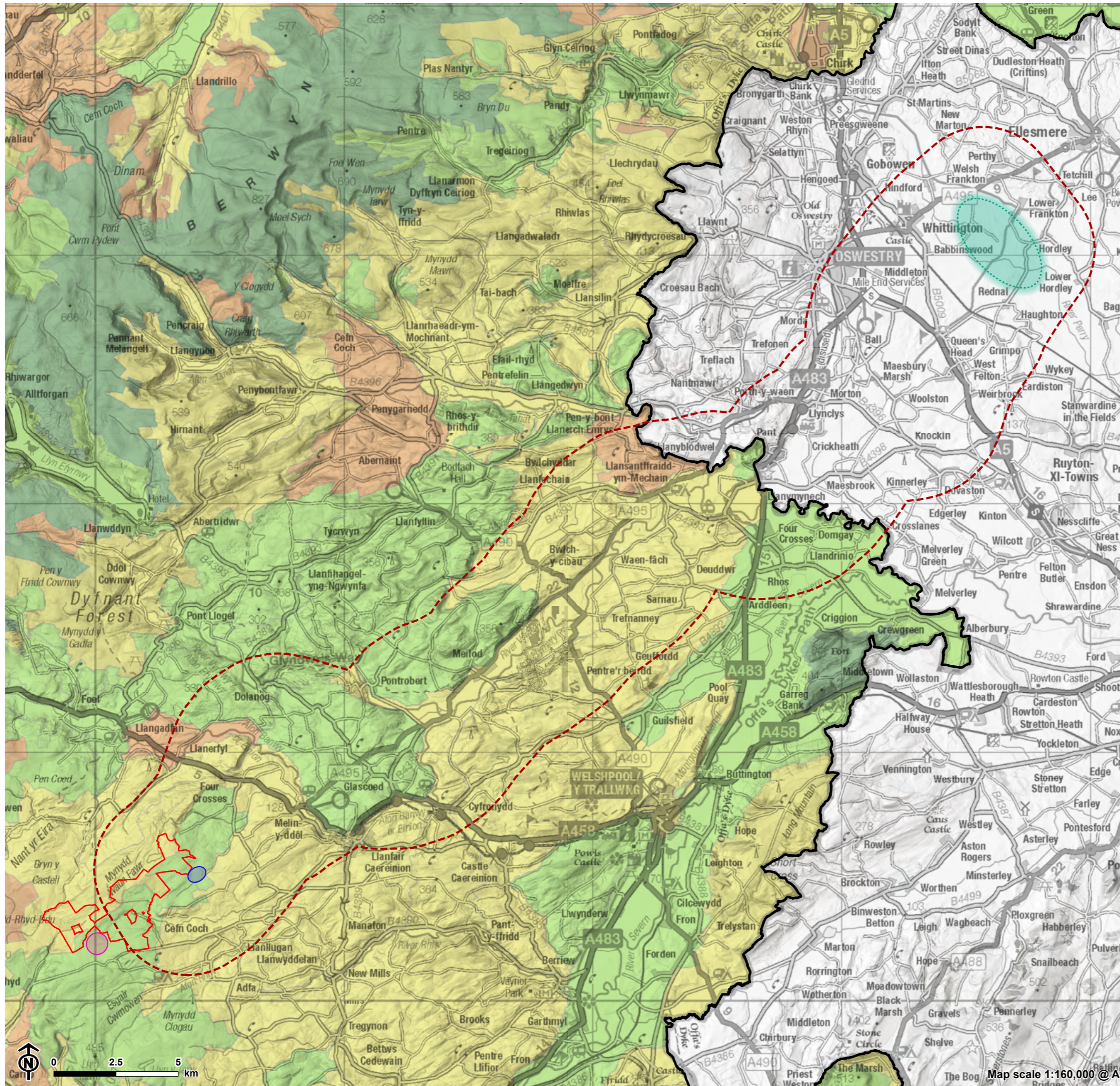
- Provisional LVIA Study Area
  - Llyn Lort Energy Park
  - Search Area for National Grid Substation (Not included in project)
  - Preferred Cable Sealing End Compound (CSEC) Search Area
  - Preferred Collector Substation Search Area
  - Wales - England Border
- LANDMAP**
- Outstanding
  - High
  - Moderate
  - Low

Figure 7.5: LANDMAP Historic Landscape



- Provisional LVIA Study Area
  - Llyn Lort Energy Park
  - Search Area for National Grid Substation (Not included in project)
  - Preferred Collector Substation Search Area
  - Preferred Cable Sealing End Compound (CSEC) Search Area
  - Wales - England Border
- LANDMAP**
- Outstanding
  - High
  - Moderate
  - Low

Figure 7.6: LANDMAP Landscape Habitats

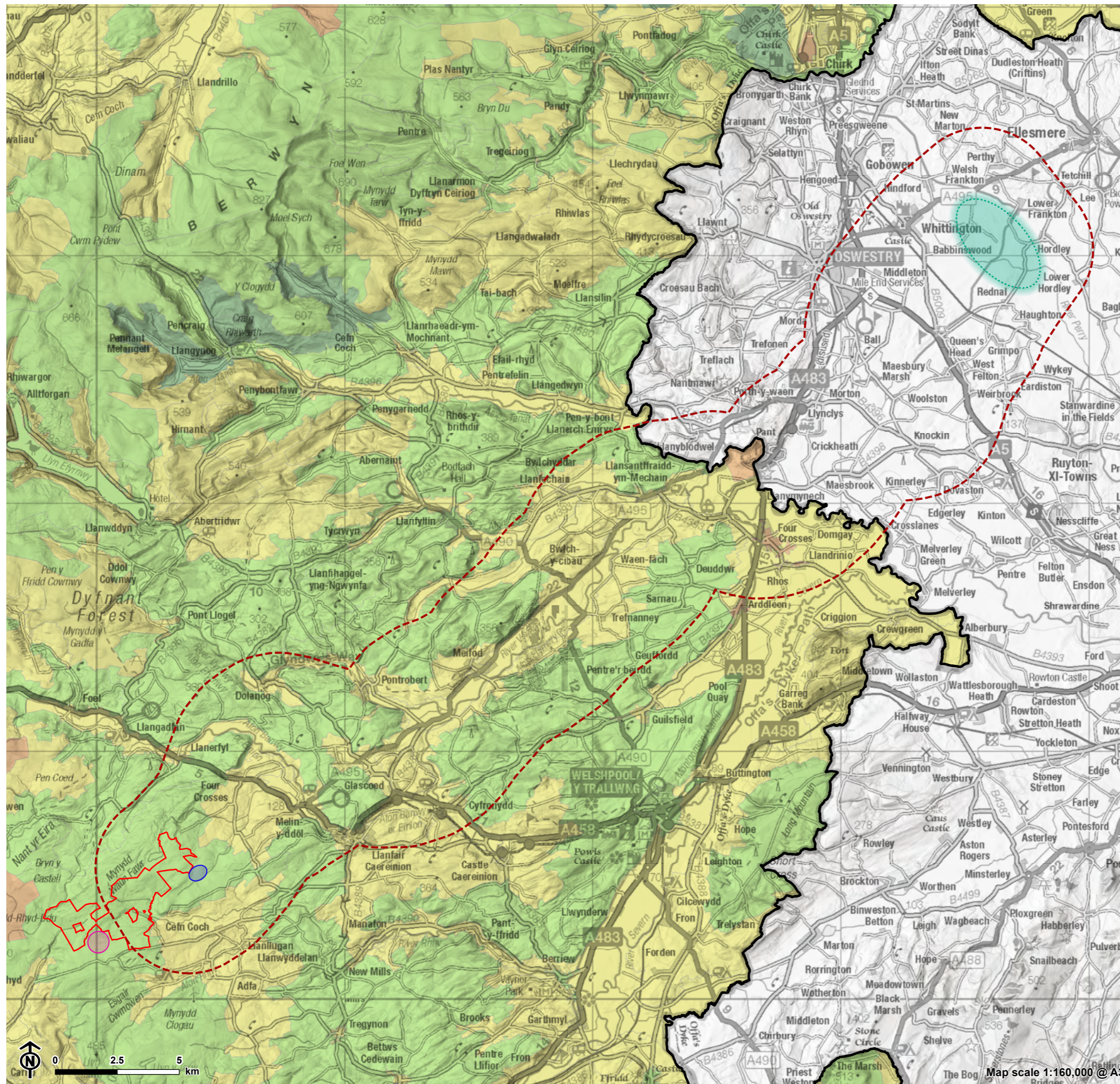


- Provisional LVIA Study Area
  - Llyn Lort Energy Park
  - Search Area for National Grid Substation (Not included in project)
  - Preferred Collector Substation Search Area
  - Preferred Cable Sealing End Compound (CSEC) Search Area
  - Wales - England Border
- LANDMAP**
- Outstanding
  - High
  - Moderate
  - Low



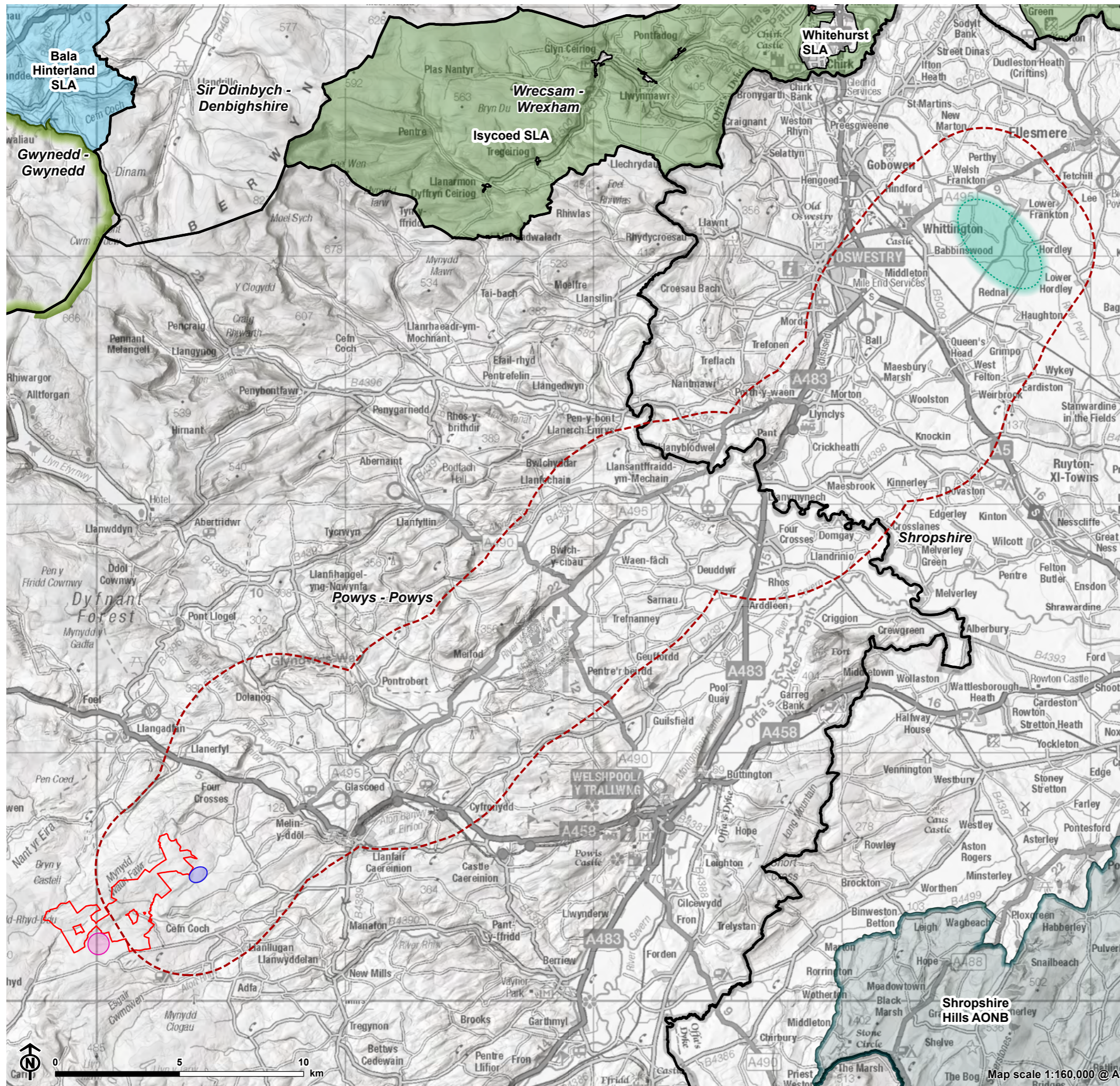
Map scale 1:160,000 @ A3

Figure 7.7: LANDMAP Visual Sensory



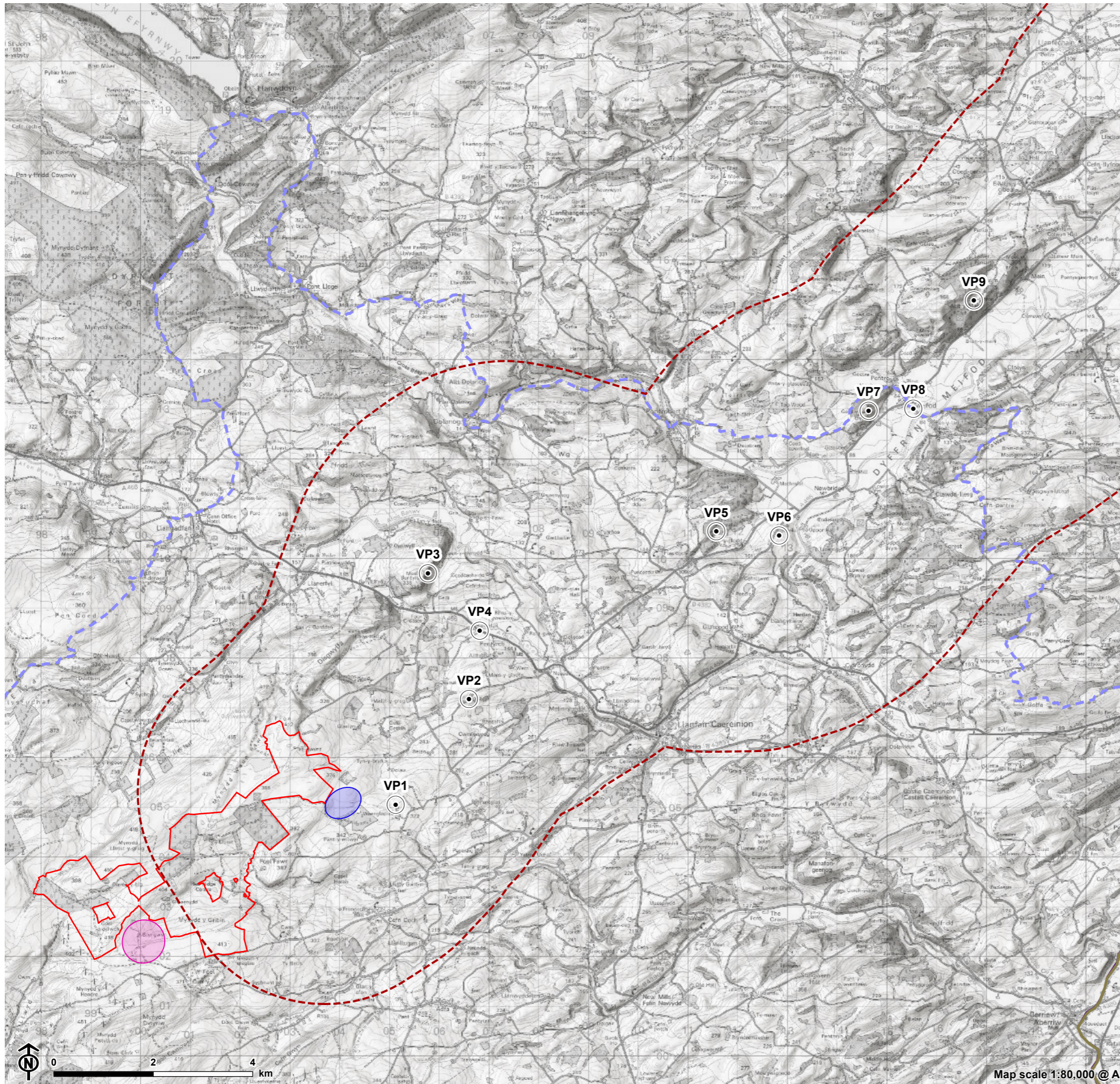
- Provisional LVIA Study Area
  - Llyn Lort Energy Park
  - Search Area for National Grid Substation (Not included in project)
  - Preferred Collector Substation Search Area
  - Preferred Cable Sealing End Compound (CSEC) Search Area
  - Wales - England Border
- LANDMAP**
- Outstanding
  - High
  - Moderate
  - Low

Figure 7.8: Landscape Designations



- Provisional LVIA Study Area
- Llyn Lort Energy Park
- Search Area for National Grid Substation (Not included in project)
- Preferred Collector Substation Search Area
- Preferred Cable Sealing End Compound (CSEC) Search Area
- Local Authority Boundary
- Areas of Outstanding Natural Beauty (AONB)
- Eryri National Park
- Special Landscape Area (SLA)**
- Bala Hinterland SLA
- Isycoed SLA
- Whitehurst SLA

Figure 7.9: Visual Receptors and Preliminary Viewpoints - Page 1 of 2



- Provisional LVIA Study Area
- Llyn Lort Energy Park
- Preferred Collector Substation Search Area
- Preferred Cable Sealing End Compound (CSEC) Search Area
- National Cycle Network (NCN)

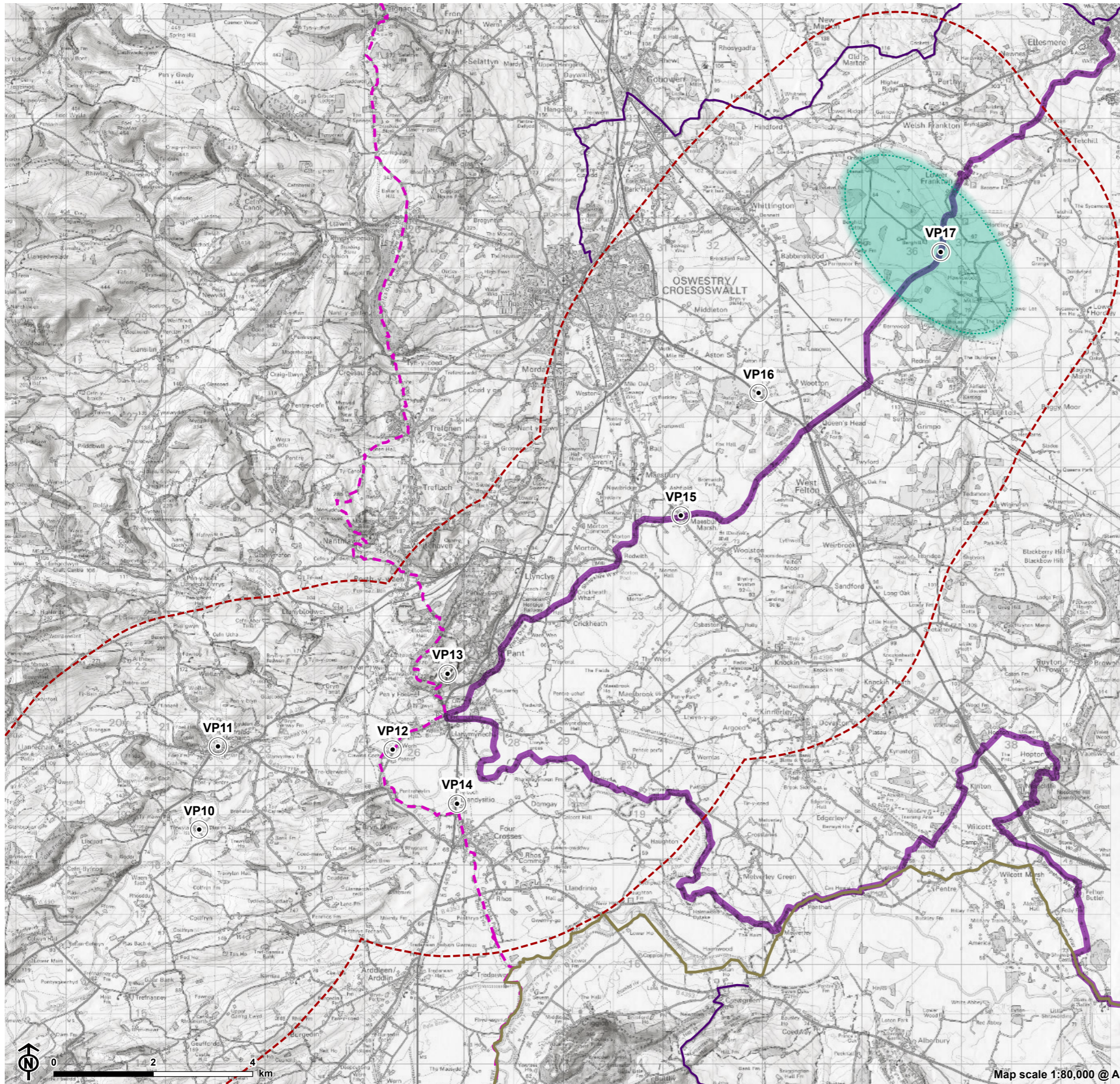
**Long Distance Walks (LDWA)**

- Severn Way
- Glyndwrs Way

- Preliminary Representative Viewpoint

- VP1: Waenglapiau
- VP2: Pen-tal-y-cefn
- VP3: Moel Bentyrch
- VP4: A458 near Pentryrch
- VP5: Ffridd Mathrafal
- VP6: B4389, Mathrafal Castle, Llangyniew
- VP7: Dyffryn Hill / Gwely Gwyddfareh at Meifod
- VP8: Broniarth Bridge, Meifod
- VP9: Alt y Main

**Figure 7.9: Visual Receptors and Preliminary Viewpoints -  
 Page 2 of 2**

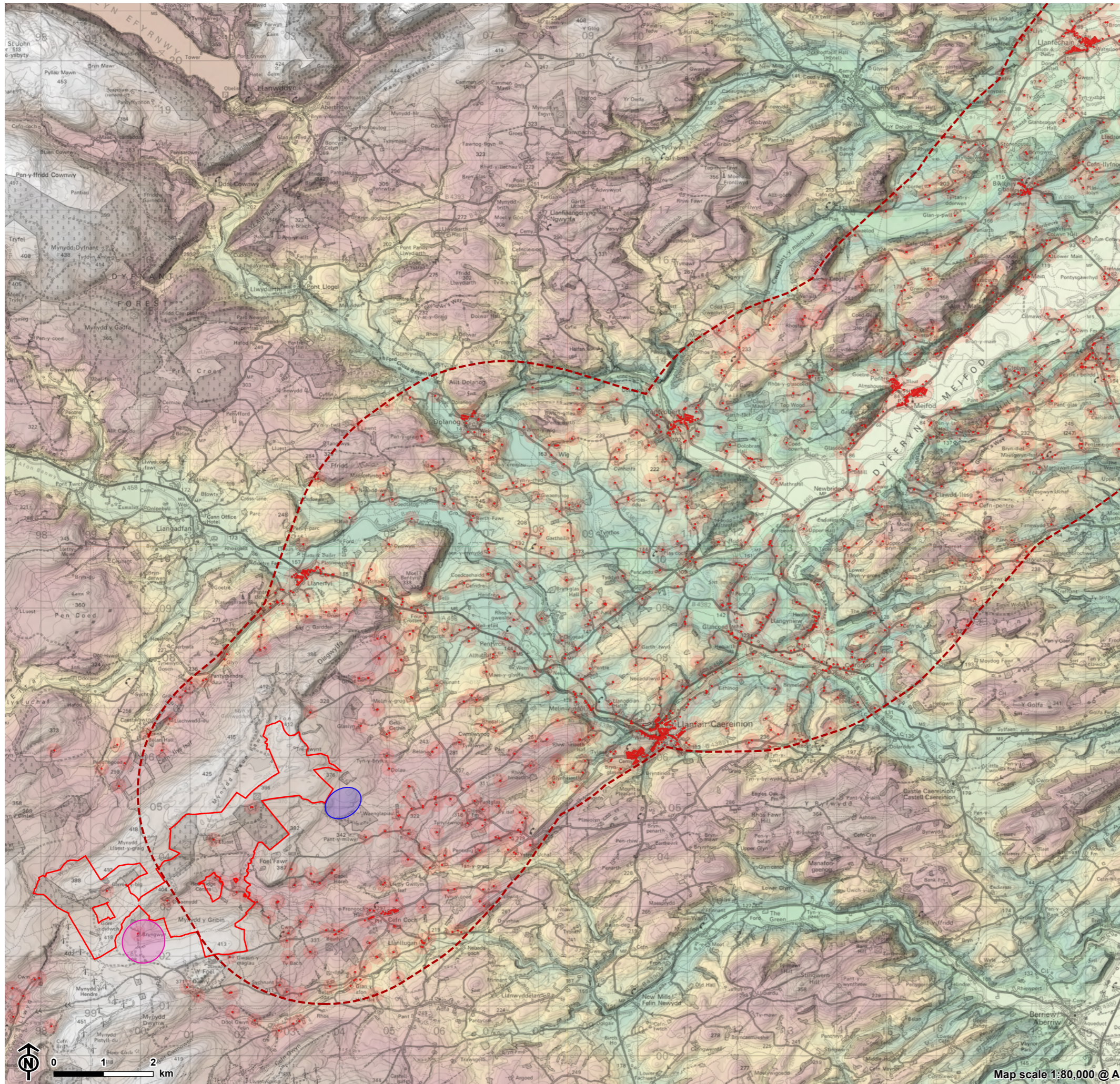


- Provisional LVIA Study Area
- Search Area for National Grid Substation (Not included in project)
- National Cycle Network (NCN)
- Long Distance Walks (LDWA)**
- Severn Way
- Offa's Dyke
- Shropshire Way
- Preliminary Representative Viewpoint
- VP10: Trewylan near Plas yn Dinas
- VP11: Llansantffraid Church and Conservation Area
- VP12: Carreghofa Locks
- VP13: Llanymynech Hill / Golf Course / Rocks
- VP14: Llandysilio
- VP15: Maesbury Marsh
- VP16: Aston Park and Hall on the A5
- VP17: Montgomery Canal near Berghill

Map scale 1:80,000 @ A3



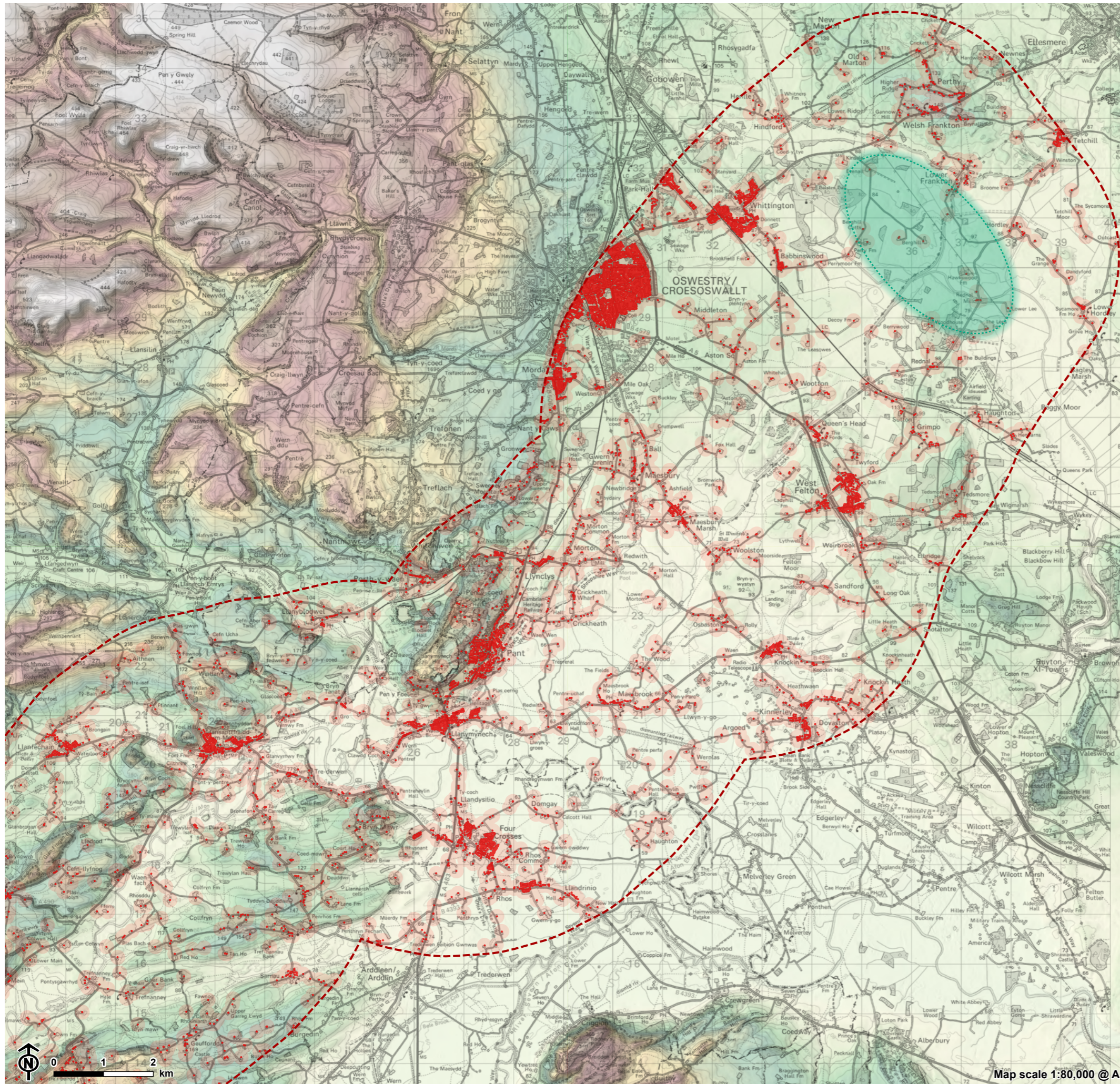
Figure 7.10: Topography and Residential Receptors - Page 1 of 2



- Provisional LVIA Study Area
- Preferred Collector Substation Search Area
- Preferred Cable Sealing End Compound (CSEC) Search Area
- Llyn Lort Energy Park
- Terrain (AOD)**
- High
- Low
- Address Data**
- Residential Property
- Residential Property 150m Buffer

Map scale 1:80,000 @ A3

Figure 7.10: Topography and Residential Receptors - Page 2 of 2



- Provisional LVIA Study Area
- Search Area for National Grid Substation (Not included in project)
- Terrain (AOD)
  - High
  - Low
- Address Data
  - Residential Property
  - Residential Property 150m Buffer