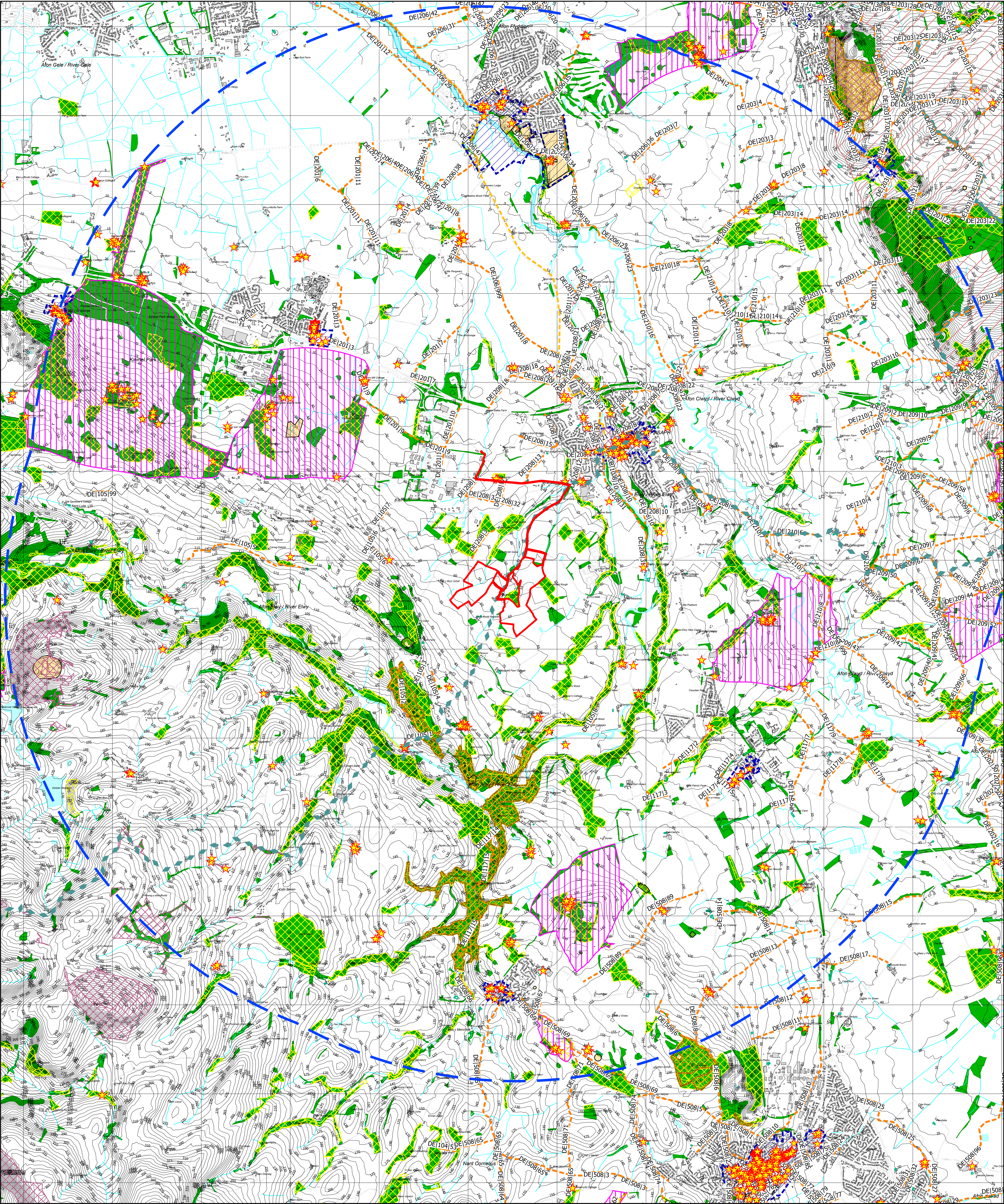


Appendix B.11 Landscape Figures



LEGEND

- | | | |
|---|---|--|
| Site Boundary | Public Rights of Way * | Scheduled Monument ~ |
| 5km Buffer from Site Boundary | Long Distance Walk
North Wales Pilgrim's Way | National Landscape / Area of Outstanding
Natural Beauty # |
| Ancient Woodland # | Sustrans Cycle Route + | Sites of Special Scientific Interest # |
| Existing Woodlands, Copses and Tree Belts ^ | Listed Buildings ~ | Special Area of Conservation # |
| Existing Water Courses and Features ^ | Conservation Area ~ | Local Nature Reserve # |
| Contours/Spot Heights (Metres AOD) ^ | Registered Historic Landscapes ~ | Traditional Orchards # |

FIGURE 7.1

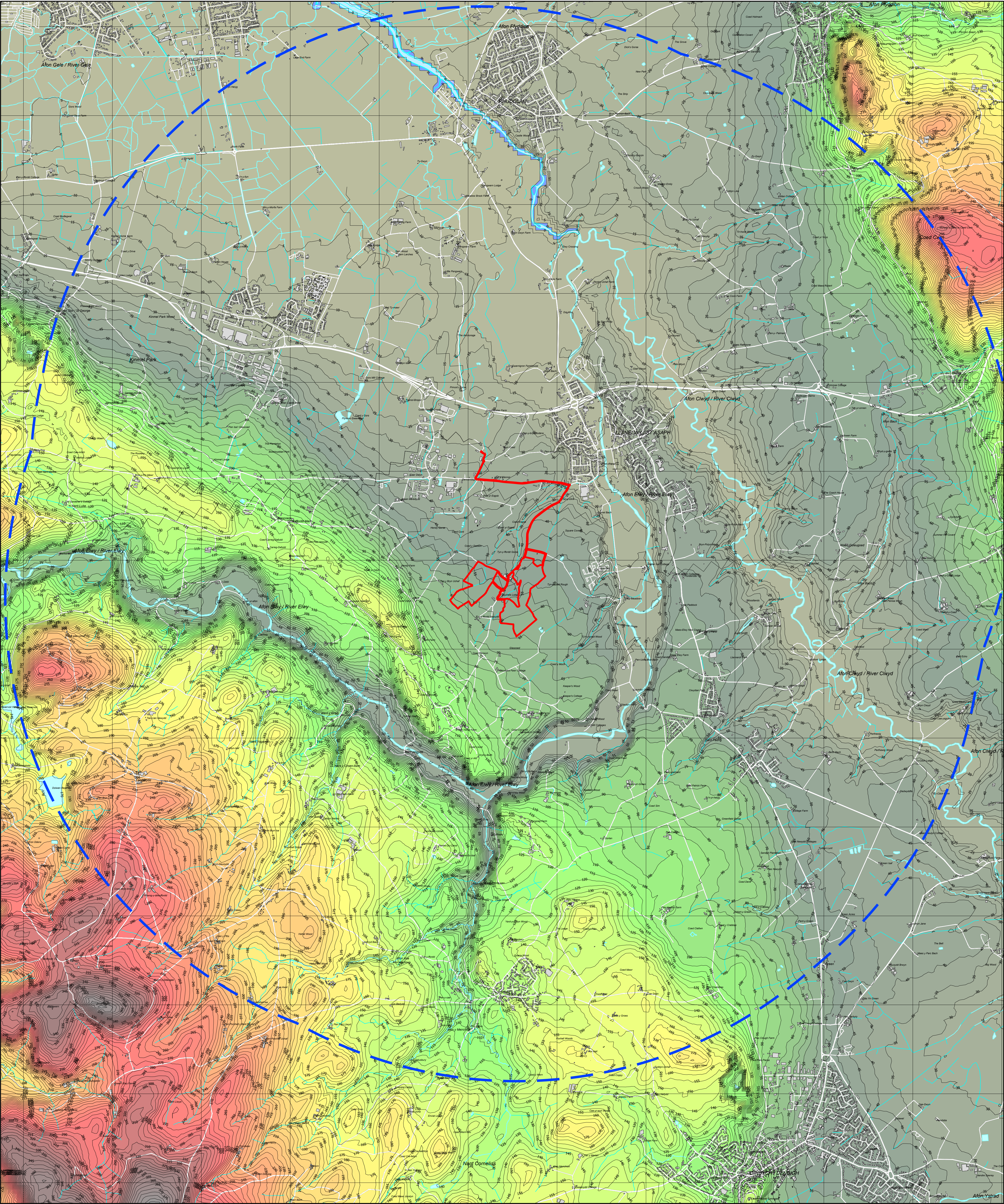
Project
St Asaph Solar Farm

Drawing Title
Site Context Plan

Date	Scale	Drawn by	Check by
03.12.2024	1:20,000 @A1	GS/OF	DP
Project No	1:40,000 @A3		Revision
33010	Drawing No		E
	LN-LP-01		



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LEGEND

Site Boundary

5km Buffer from Site Boundary

Existing Water Courses and Features

Contours/Spot Heights (Metres AOD)

Sources: OS Mapping
Data collated for constraints and analysis mapping is based on publicly available sources at the time of preparation inserted using the British National Grid and may itself not be accurate. Stantec shall not be liable for the accuracy of data derived from external sources.

Elevation (Metres AOD)

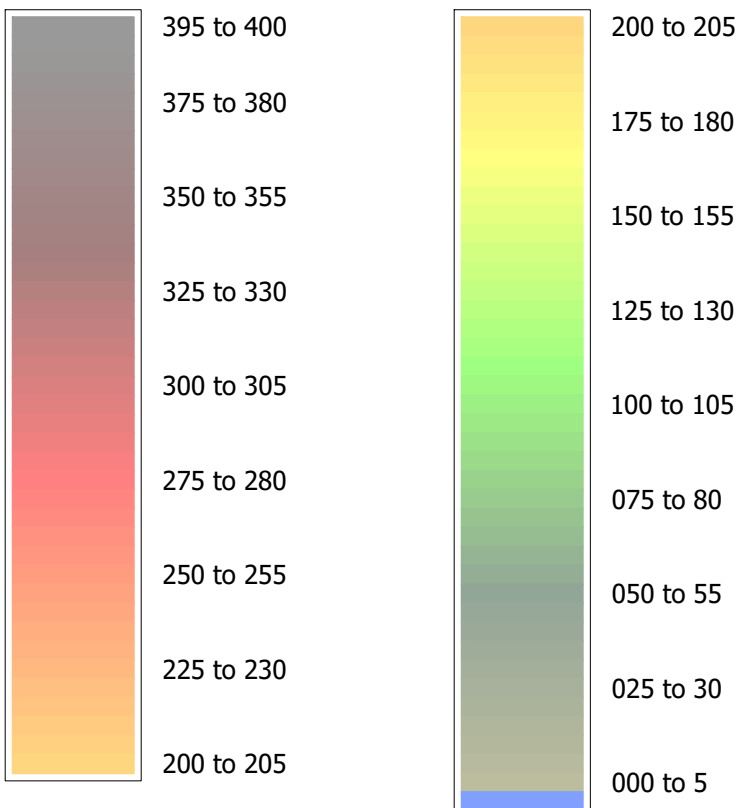


FIGURE 7.2

Project
St Asaph Solar Farm

Drawing Title
Topography Plan

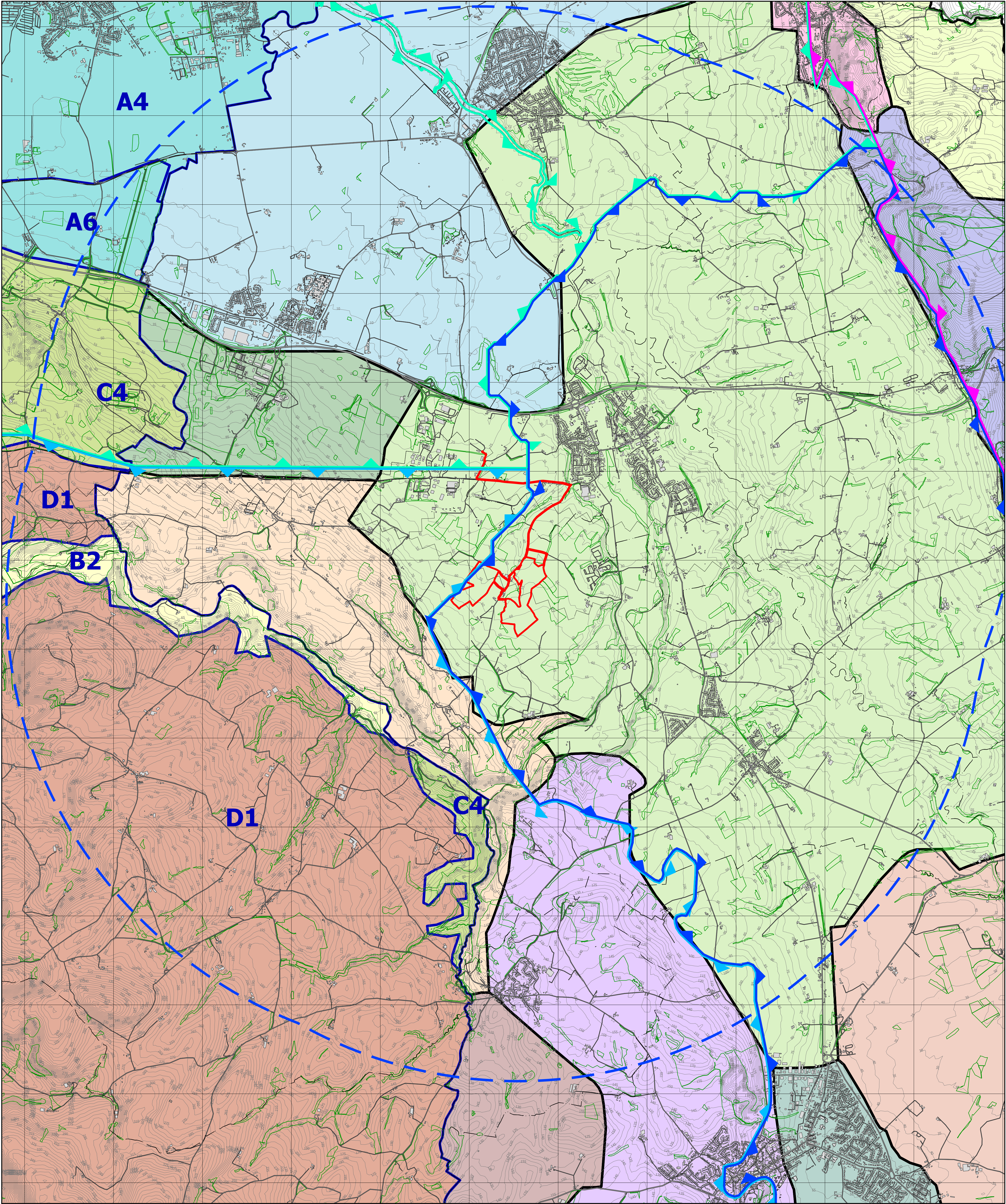
Date	Scale	Drawn by	Check by
20.03.2026	1:20,000 @A1	DP	DP
Project No	1:40,000 @A3	GS/OF	Revision
33010	LN-LP-04		E

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LEGEND

- Site Boundary
- 5km Buffer from Site Boundary
- Existing Woodlands, Copses and Tree Belts ^
- Existing Water Courses and Features ^
- Contours/Spot Heights (Metres AOD) ^

- National Character Area (NCA) Profiles #
- WLCA 08 - Colwyn and Northern Coastline
- WLCA 09 - Rhos Hills
- WLCA 11 - Dyffryn Clwyd, (Vale of Clwyd)
- WLCA 12 - Bryniau Clwyd, (Clwydian Range)

- Conwy Landscape Areas ~~~
- Lowland Areas
- Ardaloedd Iseldir
[A4: Gwastadedd Arfordirol a Morydol - Prestatyn
i Abergele | Coastal and Estuarine Flats -
Prestatyn to Abergele]
[A6: Dyffryndir fferm - Dyffryn Clwyd | Vale
Farmlands - Vale of Clwyd]
- Lower Hills and Valleys
- Bryniau a Dyffrynnoedd Is
[B2: Dyffrynnoedd Dwfn - Aled ac Elwy | Deep
Valleys - Aled and Elwy]
- Limestone Country
- Calchfaen Gwledig
[C4: Ffermdir Calchfaen - Abergele i Arfordir
Dinbych/Bryniau'r Dyffryn | Limestone Farmlands
- Abergele to Denbigh Coastal/Vale Hills]
- Marginal Upland
- Ucheldir Ymylol
[D1: Bryniau Aled Hiraethog - Gorllewin | Aled
Hiraethog Hills - West]

- Denbighshire Landscae Character Areas **
- Bodelwyddan Kinmel Park Parklands
- Clwydian Hills North
- Coastal Limestone Hills
- Denbigh Plateau
- Limestone Ridges and Valleys Cefn
- Rhyl Prestatyn Coast
- Trelawnyd Plateau
- Vale of Clwyd East of Denbigh
- Vale of Clwyd North
- Vale of Clwyd South

Sources:
^ OS Mapping
Natural England GIS Data Set
--- Conwy County Council Landscape Sensitivity and Capacity Assessment for
Onshore Wind Turbine Development, Landscape Areas Interactive Map
** Denbighshire District Council, Denbighshire Landscape Strategy 1999

Data collated for constraints and analysis mapping is based on publicly available
sources at the time of preparation inserted using the British National Grid and
may itself not be accurate. Stantec shall not be liable for the accuracy of data
derived from external sources.

FIGURE 7.3
Project
St Asaph Solar Farm

Drawing Title
Landscape Character Plan

Date31.10.2024Scale1:20,000 @A11:40,000 @A3Project No33010Drawing NoLN-LP-09

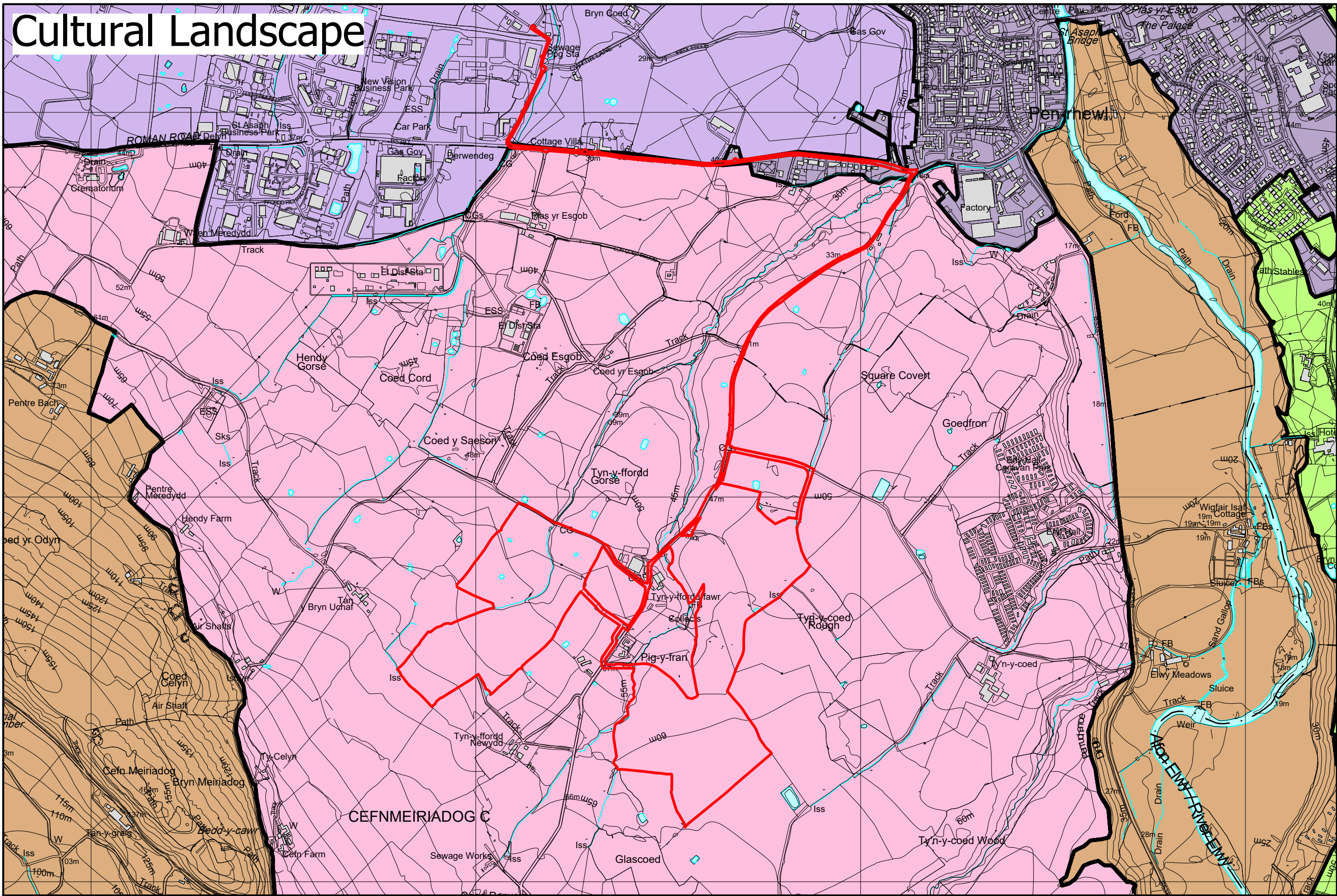
Drawn byOFCheck byDPRevisionE

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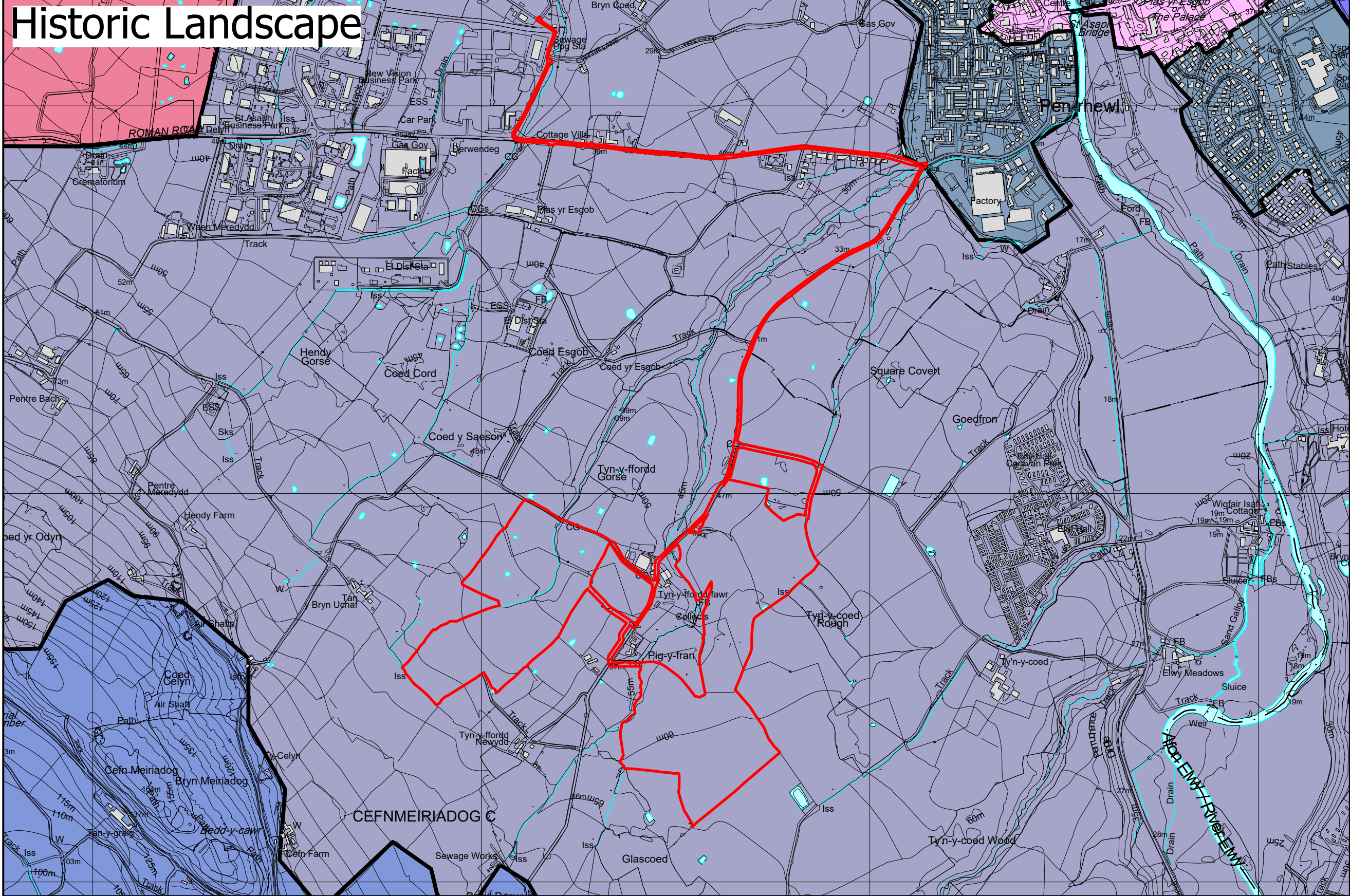
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Cultural Landscape



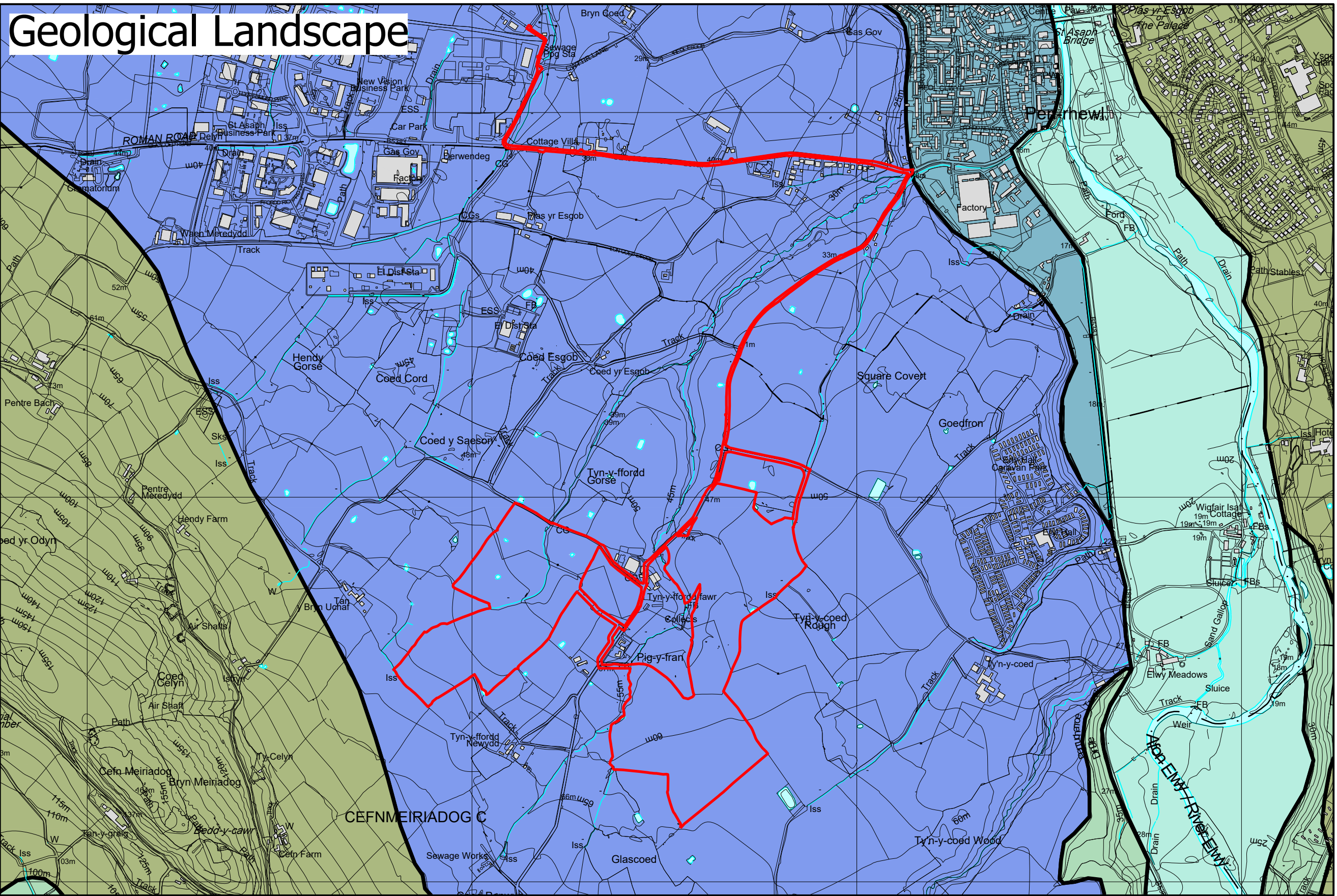
Aspect Area Classification Development / Built Land / Urban / Aspect Area Name DNBGHCL5028 St Asaph	Aspect Area Classification Lowland / Flat Lowland/Levels / Flat Lowland Mosaic / Aspect Area Name DNBGHCL5029 Vale of Clwyd-North of Denbigh	Aspect Area Classification Lowland / Flat Lowland/Levels / Flat Open Lowland Farmland / Aspect Area Name DNBGHCL5015 Area North and East of Bodelwyddan	Aspect Area Classification Lowland / Lowland Valleys / Wooded Lowland Valleys / Aspect Area Name DNBGHCL5035 Limestone Valley-Cefn Bodelwyddan
Aspect Area Classification Lowland / Rolling Lowland / Mosaic Rolling Lowland / Aspect Area Name DNBGHCL5030 Cefn Estate			

Historic Landscape



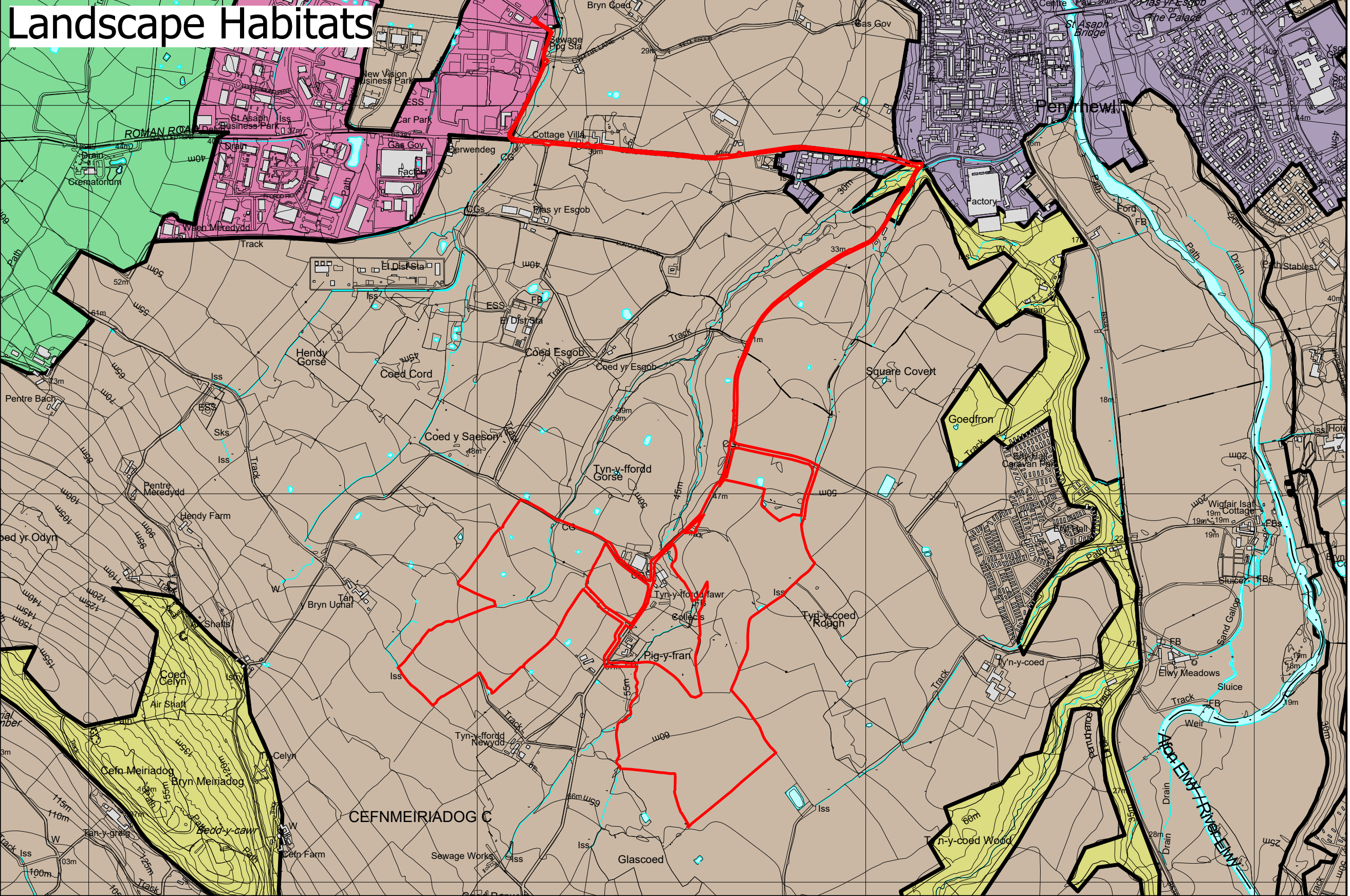
Aspect Area Classification Built environment / Other built environment / Designed / Designed Parkland/Garden Aspect Area Name DNBGHHL005 Bodelwyddan Park	Aspect Area Classification Rural environment / Settlement / Nucleated Settlement / Clustered Settlement - C19th/20th Aspect Area Name DNBGHHL020 St Asaph	Aspect Area Classification Rural environment / Agricultural / Irregular Fields/capes / Aspect Area Name DNBGHHL041 Pentre-mawr	Aspect Area Classification Rural environment / Agricultural / Irregular Fields/capes / Evolved/Mixed Landscape Aspect Area Name DNBGHHL021 Bont-newydd
--	--	--	---

Geological Landscape



Aspect Area Classification Lowland hills and valleys / Lowland river and drainage systems / Active lowland river-flood plain system / Aspect Area Name DNBGHGL018 Clwyd-Elwy Rivers	Aspect Area Classification Lowland hills and valleys / Lowland river and drainage systems / Ancient lowland river flood plain system / Aspect Area Name DNBGHGL017 The Roe	Aspect Area Classification Lowland hills and valleys / Lowland river and drainage systems / Lowland river gorge / Aspect Area Name DNBGHGL032 Elwy Gorge DNBGHGL033 Pencairg	Aspect Area Classification Lowland hills and valleys / Undulating lowland hill terrain / Other / Aspect Area Name DNBGHGL031 Cefn Meiriadog
Aspect Area Classification Lowland hills and valleys / Undulating lowland hill terrain / Undulating lowland hill terrain / Aspect Area Name DNBGHGL016 Bodelwyddan			

Landscape Habitats



Aspect Area Classification Dry (Relatively) Terrestrial Habitats / Built Up Areas / Industrial Aspect Area Name: DNBGHHL022 St Asaph Business Park	Aspect Area Classification Dry (Relatively) Terrestrial Habitats / Grassland & Marsh / Improved Grassland / Aspect Area Name DNBGHHL017 Vale of Clwyd North Improved Grassland DNBGHHL023 Cefn Improved Grassland DNBGHHL027 Elwy Hills Improved Grassland DNBGHHL029 Elwy Floodplain Improved Grassland DNBGHHL032 Clwyd Floodplain Improved Grassland	Aspect Area Classification Dry (Relatively) Terrestrial Habitats / Grassland & Marsh / Mosaic / Aspect Area Name DNBGHHL021 Bodelwyddan Lowland Parkland	Aspect Area Classification Dry (Relatively) Terrestrial Habitats / Mosaic / Mosaic / Aspect Area Name DNBGHHL024 St Asaph Urban Area
--	---	---	--

The scaling of this drawing cannot be assured

Revision Date Dm Ckd

LEGEND

- Site Boundary
- Contours/Spot Heights (Metres AOD) ^
- Existing Water Courses and Water Features ^

Sources:
^ OS Mapping
Natural Resources Wales GIS Data Set

Data collated for constraints and analysis mapping is based on publicly available sources at the time of preparation inserted using the British National Grid and may itself not be accurate. Stantec shall not be liable for the accuracy of data derived from external sources.

FIGURE 7.4

Project
St Asaph Solar Farm

Drawing Title
LANDMAP - Aspect Areas Plan

Date 31.10.2024	Scale 1:10,000 @A1 1:20,000 @A3	Drawn by OF	Check by DP
Project No 33264	Drawing No LN-LP-08	Revision E	

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LEGEND

- Site Boundary
- Public Rights of Way *
- Tree removed since photographs captured
- Ancient Woodland #
- Existing Water Courses and Features ^
- Contours/Spot Heights (Metres AOD) ^
- Location of Photographic Viewpoints (Site Appraisal Photographs: A-P)

Sources:
^ OS Mapping
Natural Resources Wales GIS Data Set
* Denbighshire Council GIS Data

Data collated for constraints and analysis mapping is based on publicly available sources at the time of preparation inserted using the British National Grid and may itself not be accurate. Stantec shall not be liable for the accuracy of data derived from external sources.

FIGURE 7.5

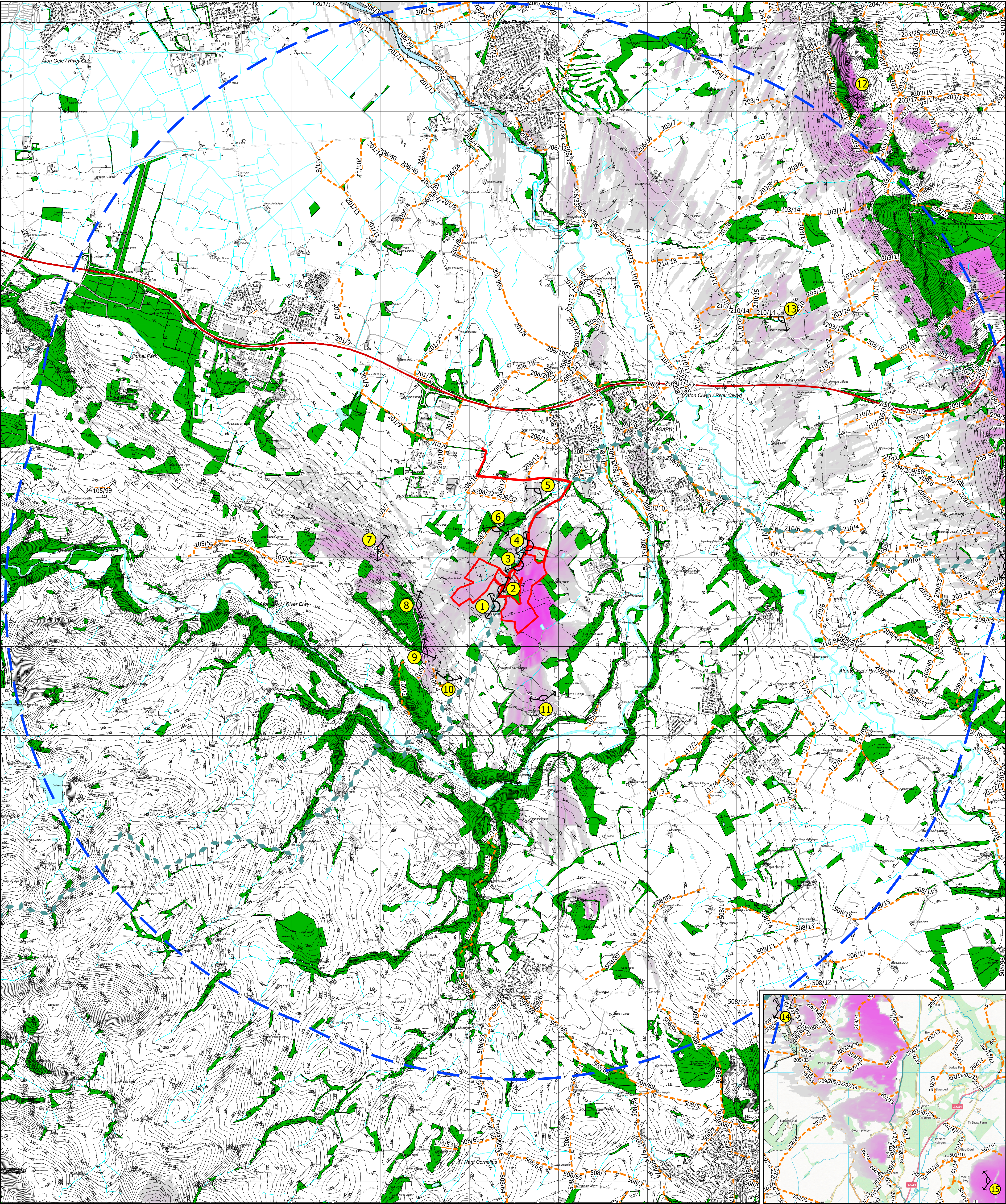
Project
St Asaph Solar Farm

Drawing Title
Site Appraisal Plan

Date	Scale	Drawn by	Check by
03.12.2024	1:5,000 @A2	OF	DP
Project No	Drawing No	Revision	
33010	LN-LP-03	E	

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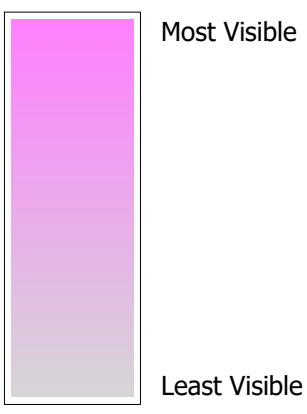


LEGEND

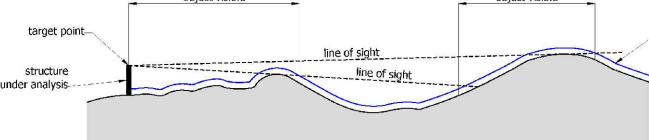
- Site Boundary
- 5km Buffer from Site Boundary
- Existing Woodlands, Copses and Tree Belts ^
- Existing Water Courses and Features ^
- Contours/Spot Heights (Metres AOD) ^

- Public Rights of Way *
- Long Distance Walk North Wales Pilgrim's Way
- Location of Photographic Viewpoints (Site Context Photographs: 1-15)

Zone of Theoretical Visibility (ZTV)



Notes:
The Zone of Theoretical Visibility (ZTV) provides an approximate portrayal of the greatest possible extent of visibility of the Proposed Development, on the basis of a digital ground model (DTM). The extent and nature of specific views towards the Proposed Development is to be verified through fieldwork to take account of other visual barriers, such as existing buildings, woodland, trees and infrastructure.
• The ZTV is produced using the specialised software package Key-Terra Firms which is an AutoCAD based application.
• The ZTV is produced by calculating the 'line of sight' from target points to analysis end.



- Parameters:**
- The study area for the ZTV is 11.2 x 14.1 km
 - The ZTV accounts for ground topography on the basis of a model made from Natural Resources Wales Lidar data in the form of 3D points data on a 2m grid, re-interpolated to a 5m grid;
 - The ZTV does not account for existing features, other than woodland blocks and existing buildings, derived from OS Mapping, with the following assumptions:
 - Buildings: 8.5m high
 - Woodland Blocks: 12m high;
 - The ZTV is based on 57 targets across the proposed panels at a height of 3.31m above existing ground level;
 - The ZTV assumes an observer height of 1.7m above ground level; and
 - The ZTV portrays the extent of visibility of the Proposed Development on the basis of if a target point is visible within a given 50m grid square.

Sources:
• OS Mapping
• Natural Resources Wales GIS Data Set
• Sustrans National Cycle Network GIS Data

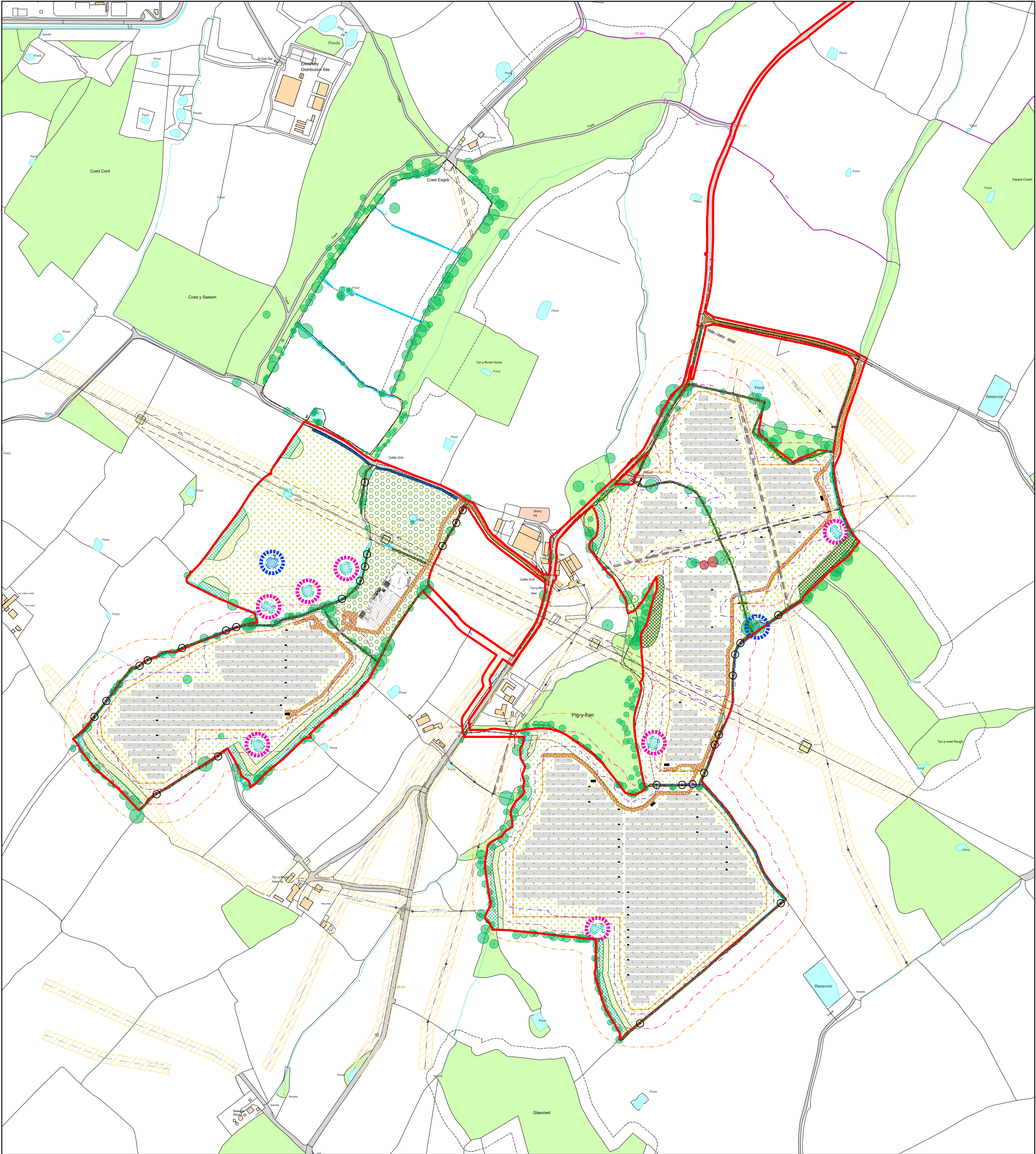
Data collated for constraints and analysis mapping is based on publicly available sources at the time of preparation. Stantec shall not be liable for the accuracy of data derived from external sources.

FIGURE 7.6
Project
St Asaph Solar Farm

Drawing Title
Visual Appraisal Plan

Date	Scale	Drawn by	Check by
03.12.2024	1:20,000 @A1	OF/GS	DP
Project No	1:40,000 @A3		Revision
33010	LN-LP-05		E

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LEGEND

- Site Boundary
- Existing Woodlands, Copses and Tree Belts ^
- Existing Water Courses and Features ^
Wildflower meadow wetland seeding across 10m buffers to the ponds, streams and ditches within and adjacent to the Site
- Contours/Spot Heights (Metres AOD) ^
- Existing Surveyed Trees and Vegetation to be Retained
- Existing Surveyed Trees Removed Since Survey and Photographs Captured
- Proposed Trees
To be managed to a maximum height 4.5-5m to prevent overshadowing
- Proposed Trees
To be allowed to grow to their natural height

- Existing Hedgerow to be Maintained and Reinforced
Assume approximately 25% infill for overall length (to a minimum height of 2.5 - 3m)
- Proposed Hedgerow to be Maintained
(to a minimum height of 2.5 - 3m)
- Native Shrub Planting
(Maintained to 10m maximum height) where it is 35m-60m from panels
- Native Tree Planting
(No woody species 0-15m from panels)
(Maintained to 15m maximum height) where it is 60m+ from panels
Translocate small amounts of soil/seed bank from areas of tree removal to the native woodland planting area. Translocate smaller saplings from areas of tree removal to the native woodland planting area. Grow saplings using berries and nuts gathered from mature trees to be removed, and plant these saplings within the native woodland planting area.
- Native Shrub Planting
(Maintained to 4m maximum height) where it is 15-35m from panels
- Proposed new pond; the pond shall have a wet surface area of at least 100m² and be of sufficient depth to hold water in at least one in three summers; spoil generated from the excavation of the pond will be used to create a series of 2m x 1m x 1m high hibernacula; the pond will be planted with a range of aquatic and marginal plants, and the banks seeded with Emorsgate Seeds EP1 'Pond Edge Mix' or similar.
- Currently dry pond or pond not supporting GCN to be reinstated; the pond shall have a wet surface area of at least 100m² and be of sufficient depth to hold water in at least one in three summers; spoil generated from the excavation of the pond will be used to create a series of 2m x 1m x 1m high hibernacula; the pond will be planted with a range of aquatic and marginal plants, and the banks seeded with Emorsgate Seeds EP1 'Pond Edge Mix' or similar.

- Existing grassland to be maintained as long grassland for great crested newt habitat/migration.
- Existing grassland to be maintained as tussocky grassland with Low Density Native Mix trees, no trees to be planted under OHL easement and to be maintained to 15m maximum height where planted at 60m+ from panels.
- Existing grassland within perimeter fence to be retained as grazing pasture or mown no more than once a year, within autumn, to a height of no less than 10cm.

- Proposed Security Fence
- Proposed Access Route
- Proposed Solar Panels
- Solar Panel 15m Buffer
- Solar Panel 35m Buffer
- Solar Panel 60m Buffer

FIGURE 7.7
Project
St Asaph Solar Farm

Drawing Title
Landscape Strategy Plan
Sheet 1 of 2

Date 20.12.2024	Scale 1:2,500 @A1 1:5,000 @A3	Drawn by OF/ML	Check by DP
Project No 33010	Drawing No LN-LP-12	Revision K	

Proposed and Reinforcement Hedgerow Mix (plant at 0.5m centres in single species groups of 3-7 plants)					
Abbrev	Species Name	Common Name	Height	General Specification	Percentage Quantity
Ac ca	Acer campestre	Field Maple	80-100cm	1+1: Transplant - seed raised: B	5% 205
Co av	Corylus avellana	Common Hazel	80-100cm	1+2: Transplant - seed raised: Branched: 4 brks: B	20% 808
Cr mo	Crataegus monogyna	Common Hawthorn	80-100cm	1+2: Transplant - seed raised: 4 brks: B	35% 1416
Il aq	Ilex aquifolium	Common Holly	40-60cm	Leader with Lateral: 2L	10% 405
Pr sp	Prunus spinosa	Blackthorn	80-100cm	1+2: Transplant - seed raised: Branched: 3 brks: B	25% 1011
Pr pa	Prunus padus	Bird Cherry	80-100cm	1+1: Transplant - seed raised: B	5% 205

Native Shrub Planting Mix - Maintained to 4m maximum height (plant at 0.5 plants/m² in single species groups of 3-5 plants)					
Abbrev	Species Name	Common Name	Height	General Specification	Percentage Quantity
Po ni	Populus nigra	Black Poplar	60-80cm	1+1: Transplant - seed raised: B	5% 204
Co av	Corylus avellana	Common Hazel	60-80cm	1+2: Transplant - seed raised: Branched: 3 brks: B	20% 817
Cr mo	Crataegus monogyna	Common Hawthorn	60-80cm	1+1: Transplant - seed raised: B	35% 1432
Il aq	Ilex aquifolium	Common Holly	40-60cm	Leader with Lateral: 2L	10% 409
Sa ca	Salix caprea	Goat Willow	60-80cm	1+1: Transplant - seed raised: Branched: 2 brks: B	25% 1021
Pr pa	Prunus padus	Bird Cherry	60-80cm	1+1: Transplant - seed raised: B	5% 204

Native Shrub Planting Mix - Maintained to 10m maximum height (plant at 0.5 plants/m² in single species groups of 3-5 plants)					
Abbrev	Species Name	Common Name	Height	General Specification	Percentage Quantity
Ul gl	Ulmus glabra	Wych Elm	80-100cm	1+1: Transplant - seed raised: B	5% 515
Be pu	Betula pubescens	Downy Birch	80-100cm	1+1: Transplant - seed raised: B	10% 515
Ti eu	Tilia x europea	Common Lime	80-100cm	1+1: Transplant - seed raised: B	10% 515
So to	Sorbus torminalis	Service Tree	80-100cm	1+1: Transplant - seed raised: B	10% 515
Qu pe	Quercus petraea	Sessile Oak	80-100cm	1+2: Transplant - seed raised: B	10% 515

Understorey planting					
Co sa	Cornus sanguinea	Common Dogwood	60-80cm	1+1: Transplant - seed raised: Branched: 3 brks: B	10% 515
Co av	Corylus avellana	Common Hazel	60-80cm	1+2: Transplant - seed raised: Branched: 3 brks: B	10% 515
Co mo	Crataegus monogyna	Common Hawthorn	80-100cm	1+2: Transplant - seed raised: B	10% 515
Ma sy	Malus sylvestris	Crab Apple	60-80cm	0/2; Cutting; branched; 3 breaks	10% 515
Sa ni	Sambucus nigra	Elder	60-80cm	1+2: Transplant - seed raised: Branched: 4 brks: B	10% 515

Native Tree Planting Mix - Maintained to 15m maximum height (plant at 0.25 plants/m² in single species groups of 3-5 plants)					
Abbrev	Species Name	Common Name	Height	General Specification	Percentage Quantity
Ac ca	Acer campestre	Field Maple	80-100cm	1+1: Transplant - seed raised: B	5% 41
Be pu	Betula pubescens	Downy Birch	80-100cm	1+1: Transplant - seed raised: B	5% 41
Il aq	Ilex aquifolium	Common Holly	60-80cm	Leader with Lateral: 5L	5% 41
So au	Sorbus aucuparia	Rowan	80-100cm	1+1: Transplant - seed raised: B	5% 41
Qu pe	Quercus petraea	Sessile Oak	80-100cm	1+2: Transplant - seed raised: B	5% 41

Understorey planting					
Co sa	Cornus sanguinea	Common Dogwood	60-80cm	1+1: Transplant - seed raised: Branched: 3 brks: B	15% 122
Co av	Corylus avellana	Common Hazel	60-80cm	1+2: Transplant - seed raised: Branched: 3 brks: B	15% 122
Co mo	Crataegus monogyna	Common Hawthorn	80-100cm	1+2: Transplant - seed raised: B	15% 122
Li vu	Ligustrum vulgare	Common Privet	60-80cm	0/2; Cutting; branched; 3 breaks	15% 122
Vi op	Viburnum opulus	Gelder Rose	60-80cm	1+2: Transplant - seed raised: Branched: 4 brks: B	15% 122

Low Density Native Tree Planting Mix - Maintained to 15m maximum height (plant at 10 m centres in single species groups of 3-5 plants)					
Abbrev	Species Name	Common Name	Height	General Specification	Percentage Quantity
Ac ca	Acer campestre	Field Maple	80-100cm	1+1: Transplant - seed raised: B	5% 7
Be pu	Betula pubescens	Downy Birch	80-100cm	1+1: Transplant - seed raised: B	5% 7
Il aq	Ilex aquifolium	Common Holly	60-80cm	Leader with Lateral: 5L	5% 7
So au	Sorbus aucuparia	Rowan	80-100cm	1+1: Transplant - seed raised: B	5% 7
Qu pe	Quercus petraea	Sessile Oak	80-100cm	1+2: Transplant - seed raised: B	5% 7

Understorey planting					
Co sa	Cornus sanguinea	Common Dogwood	60-80cm	1+1: Transplant - seed raised: Branched: 3 brks: B	15% 21
Co av	Corylus avellana	Common Hazel	60-80cm	1+2: Transplant - seed raised: Branched: 3 brks: B	15% 21
Co mo	Crataegus monogyna	Common Hawthorn	80-100cm	1+2: Transplant - seed raised: B	15% 21
Li vu	Ligustrum vulgare	Common Privet	60-80cm	0/2; Cutting; branched; 3 breaks	15% 21
Vi op	Viburnum opulus	Guelder Rose	60-80cm	1+2: Transplant - seed raised: Branched: 4 brks: B	15% 21

Trees					
Abbrev	Species Name	Common Name	Height	Girth	General Specification Quantity
Ac ca	Acer campestre	Field Maple	350-425cm	12-14cm	Heavy Standard: 5 brks: 3x: Clear Stem minimum 200cm: B 16
Qu pe	Quercus petraea	Sessile Oak	350-425cm	12-14cm	Heavy Standard: 5 brks: 3x: Clear Stem 175-200cm: RB 14
Ta ba	Taxus baccata	Yew	350-425cm	12-14cm	Heavy Standard: 5 brks: 3x: Clear Stem 175-200cm: RB 15

Long Term Management Plan

- Pruning generally**

1. All dead, damaged or diseased tree branches shall be removed and arisings removed from site. Shrubs shall be pruned in the appropriate season (see hedgerows, below) to maintain health and vigour and encroachment on access route/storage areas, etc. Avoid cutting operations from March to August (inclusive) to prevent disturbance of breeding birds.
- Hedgerows**

2. Hedgerows shall be pruned on one side per year, alternating on a 2 or 3 year rotation in February, and maintained a minimum height of 2.5 - 3m (otherwise stated on the plan) to promote bushy growth while providing continued habitat and foraging opportunities for wildlife. Hedgerow trees shall be encouraged to develop to full maturity.
- Retained Grazing Pasture**

3. Retained grassland to be sheep-grazed or mown as required to prevent shading of the panels or security features. Areas outside perimeter fence to be mown no more than once annually.
- Wildflower Meadow Grassland**

4. Meadow grassland within the inner section of the fields (under and around the solar arrays) to be cut as frequently; areas away from the solar panels to be cut annually, in September; and the boundaries of the field to be cut on a rotational three-year cycle.
- Scrub**

5. Areas to be thinned and trimmed to a height of between 1 and 3 meters on a 3 year rotational basis.
- Woodland**

6. Carry out selective thinning and coppicing of approximately 30% of plants in Year 5. Leave deadwood and brush piles in situ.
- General**

7. All soft and hard landscaping shall be inspected annually by the Landscape Contractor and an approved arboriculturist and tree works carried out as necessary to ensure the continued health and safety of the trees. Regular weed control and litter picking operations will be required.

PLANTING NOTES

- General**

1. Plant material to conform to the National Plant Specification. Plant handling and planting operations to be in accordance with HTA 'Handling and Establishing Landscape Plants', Parts I-III.

2. Imported topsoil (if required) to BS 3882 Low Fertility Grade and from an approved source. Existing topsoil shall have a maximum 35% clay content and minimum 5% organic content, pH 5.5-8.5 and be free of perennial weeds, weed seeds and contamination. Maximum stone content 20% (>20mm particle size), maximum size of stones 50mm in any direction. Existing topsoil to be ameliorated and/or screened if necessary to achieve this specification.

3. Soil conditioner: Sanitized and stabilised compost to BSI PAS 100. Apply 75mm depth even coverage and incorporate into topsoil during cultivation operations, to a minimum depth of 150mm. Compost to be Compost Association certified, or conforming to the specification from an approved supplier.

4. Mulch planting beds with matured coniferous bark, with an even particle size between 5-35mm, to 75mm minimum depth over weed-free soil after completion of planting and watering operations.
- Existing Grazing Pasture**

5. Retained grassland - any bare patches arising from installation works to be seeded with an agricultural grassland seed mix.

- Wildflower Meadow Grassland**

6. Existing arable land to be harrowed in areas indicated for meadow grassland. Do not cultivate within tree root protection areas or within the existing hedgerow but cut manually to 30-50mm during autumn preceding and following seeding. Sow meadow grassland seed mixes into newly harrowed soil in areas indicated, in accordance with supplier's recommendations, in autumn to reduce competition.

7. Extra attention is required in terms of seed bed preparation to encourage good establishment and to cultivate when soil moisture allows breakdown of the soil aggregates into a medium tilth.

- Hedgerows**

12. Prepare a 0.5m wide x 0.3m deep weed-free trench (or larger if necessary, in order to take the full spread of the roots); the sides and bottom of the trench will be forked over and 'ripped' to facilitate proper drainage, prior to back-filling. The trench to be excavated on the same day as planting and to be back-filled with an appropriate excavated topsoil/ compost mix. Compost will only be used if necessary; should compost be deemed necessary, it to be Compost Association certified, or obtained from a supplier conforming to this specification. Hedgerow to be cultivated by hand only in proximity to existing trees/hedgerow. No herbicide.

13. For existing hedgerows, plant bare root transplants and container-grown shrubs at 0.5m centres on the back of the existing hedgerows and fill any gaps larger than 0.5m. Hand dig with care in proximity to existing hedgerows and do not sever any roots larger than 2.5cm in diameter.

14. For new hedgerows, plant shrubs at 0.5m centres.

15. Transplants to be notch planted and container-grown shrubs to be pit planted (in pits 150mm wider than root spread) ensuring the original root collar is at ground level after backfilling and firming in.

16. Hedgerow plants to be installed with rabbit protection, as follows:

 - Transplants, cuttings and seedlings: PP photodegradable tube guards 0.6m high x 50mm diameter or greater to suit girth of shrub/tree, supported by 900mm bamboo cane inserted 300mm below ground level.
 - Container-grown shrubs: recycled HDPE photodegradable mesh guards 0.6m high x 150-180mm diameter or greater to suit diameter of shrub, supported by 900mm timber stake inserted 300mm below ground level. Ensure protection methods do not restrict natural movement or growth.
- Tree and Shrub Planting**

17. Plants to be installed with rabbit protection, in the same method as hedgerow plants.

18. Notch plant bare root transplants in rows on a 2.0m grid. Hand dig with care in proximity to existing trees and do not sever any roots larger than 2.5cm in diameter.

19. Tree and shrub species should be agreed with Denbighshire Borough Council and sourced from those grown at the council's tree nursery at St Asaph. With regard to both the proposed native buffer planting and the proposed native scrub planting, species mixes suitable for dormice should be used, which may include species such as hazel (Corylus avellana), oak (Quercus petraea), black poplar (Populus nigra), service tree (Sorbus torminalis), wych elm (Ulmus glabra) (for white letter hairstreak butterfly which may be locally present), lime (Tilia sp.), honeysuckle (Lonicera periclymenum), elder (Sambucus nigra), goat willow (Salix caprea), birch (Betula pendula and/or Betula pubescens), blackthorn (Prunus spinosa), hawthorn (Crataegus monogyna), crab apple (Malus sylvestris) and holly (Ilex aquifolium).

20. No woody species to be planted within 15m from panels.

- Planting seasons**

21. Planting seasons:

 - Deciduous trees and shrubs: Late October to late March
 - Conifers and evergreens: September/October or April/May
 - Container grown plants: At any time if ground and weather conditions are favourable
 - Grass seeding: August/September

LANDSCAPE & BIODIVERSITY MANAGEMENT PLAN
Establishment and Maintenance Period (Years 1-5)

- Pruning generally**

1. All dead, damaged or diseased tree branches shall be removed and arisings removed from site. Trees and shrubs shall be pruned in the appropriate season to maintain health and vigour and to prevent encroachment on access route/storage areas, etc. The removal of vegetation will be timed for outside of the bird nesting season (March to August inclusive) to prevent disturbance of breeding birds. If this is not possible, a check for active nests will first be undertaken by an ecologist. If a nest is found, an appropriate buffer will be left undisturbed until any chicks have fledged, as confirmed by an ecologist.
- Existing & Proposed Hedgerows**

2. Hedgerows shall be pruned on one side per year alternating on a 2 or 3 year rotation in February, aiming to maintain a minimum height of 2.5 - 3m to promote bushy growth while providing continued habitat and foraging opportunities for wildlife. Hedgerow trees shall be retained and encouraged to develop to full maturity where not likely to cause overshadowing of panels.

- Shrub**

3. Areas to be thinned and trimmed to a height of between 1 and 3 meters on a 3 year rotational basis.

4. Shrub planting to be maintained to 4m maximum height where it is 15-35m from panels.

5. Shrub planting to be maintained to 10m maximum height where it is 35m-60m from panels.

6. Shrub planting areas to be planted with glades/rides for maintenance.

- Trees**

7. Tree panting to be maintained to 15m maximum height where it is 60m+ from panels.

8. Tree planting areas to be planted with glades/rides for maintenance.

- Woodland**

9. Re-mulch planting area during years 1-3 to minimise competition from weeds and grasses.

- Retained Grazing Pasture**

10. Retained grassland inside perimeter fence to be sheep-grazed or mown on a regular basis as required to prevent shading of the panels or security features.

11. Retained grassland outside perimeter fence to be mown no more than once annually to encourage the establishment of a tall sward.

- Wildflower Meadow Grassland**

12. Meadow grassland within the inner section of the fields (under and around the solar arrays) to be cut as frequently as is required to prevent shading and to provide access; areas away from the solar panels to be cut annually, in September, once established; and the boundaries of the field to be cut on a rotational three-year cycle, once established.

13. Areas outside proposed fencing to be cut on a 3 year rotation.

14. Mowing or strimming of grassland to a height of no less than 15cm shall occur on land located within 250 metres of ponds known to support GCN, as well as the seven reinstated/new ponds proposed.

15. Herbicides or other chemicals shall not be used to control vegetation beneath panels, or elsewhere on site.

- Ponds**

16. Reinstated or new ponds to have a minimum surface area of 100m2 and be of sufficient depth to hold water in at least one in three summers; they will contain substantial submerged and marginal vegetation to provide cover and egg-laying opportunities, but also have open areas required for courtship and display.

17. Spoil generated from the reinstatement or forming of ponds shall be used to create a series of hibernacula, each measuring at least 2 metres in length, 1 metre in width and 1m in height.

- General**

18. All areas of planting and grass shall be maintained, to include:

 - Ample irrigation
 - Weed control (herbicide application or hand weeding)
 - Litter picking
 - Topping up of mulch
 - Checking condition of tree stakes and ties
14. All stakes and ties shall be inspected during the growing season and adjusted as necessary to ensure that they are secure and firm and that the ties are not chaffing the stem of the trees. Stakes and ties shall be removed and disposed of when plants become self supporting or at the end of the 5 year establishment period.

15. Planting which fails to thrive or dies during the 5-year establishment period shall be replaced within the next suitable planting season.

The scaling of this drawing cannot be assured			
Revision	Date	Drn	Ckd
-	-	-	-

Areas of Landscape Elements

Landscape Elements	Area (ha) / Length (km)
Proposed Native Woodland Planting	1.35ha
Proposed Native Shrub Planting	0.82ha
Reinforced Habitat Ponds	0.02ha
Proposed Habitat Ponds	0.07ha
Proposed Aquatic Planting and Emorsgate EP1 or similar	0.09ha
Existing Hedgerow to be Reinforced	2.9km
Proposed Hedgerow	212m
Existing grassland to be maintained as long grassland	11.61ha
Existing grassland within perimeter fence to be retained as grazing pasture or mown	15.16ha
Existing grassland outside perimeter fence to be maintained as tussocky grass with low density tree planting	1.76ha

Project
St Asaph Solar Farm

Drawing Title
Landscape Strategy Plan:
Planting Schedule and Notes
Sheet 2 of 2

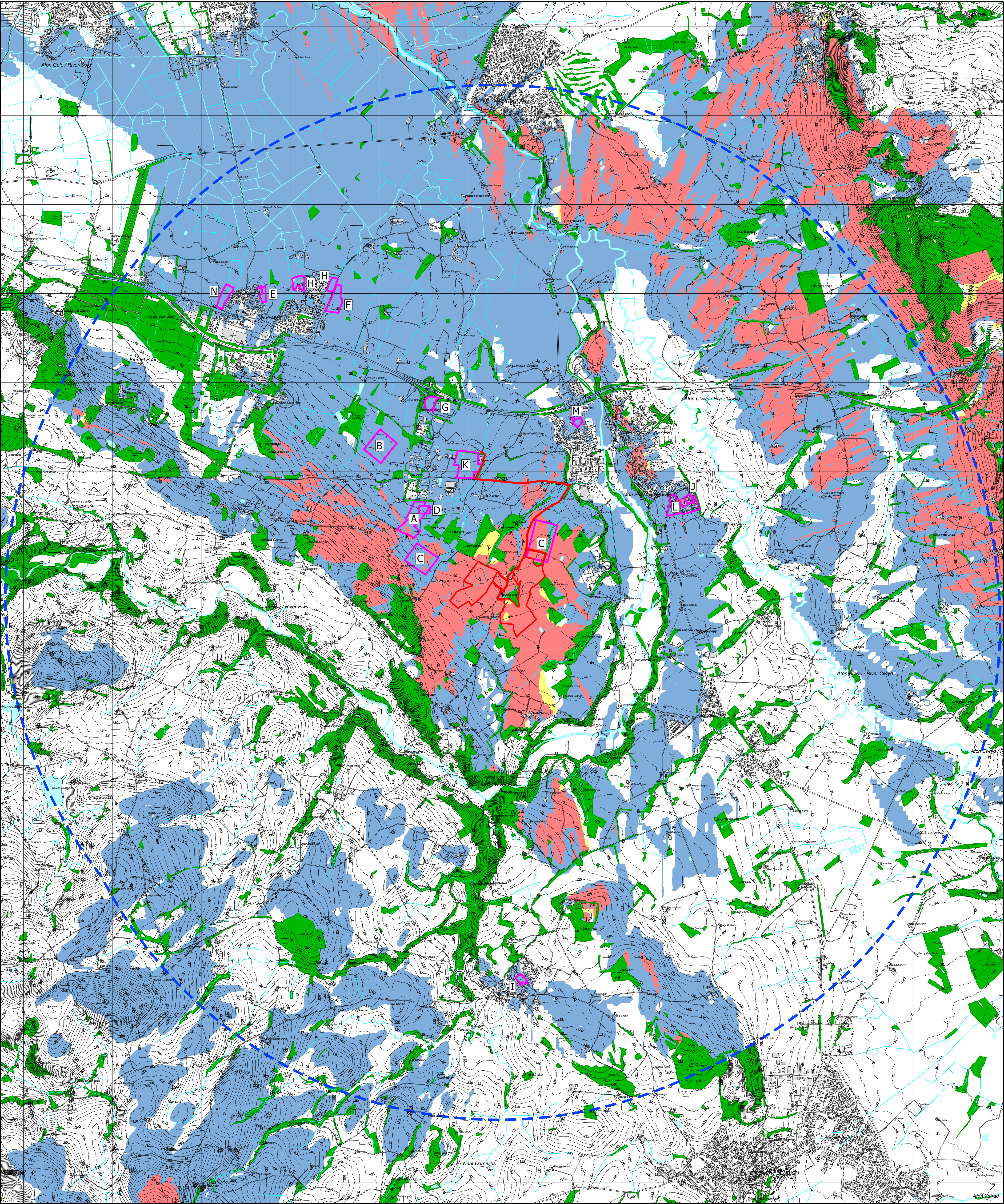
Date 20.12.2024	Scale N/A	Drawn by OF/ML	Check by DP
Project No 33010	Drawing No LN-LP-13	Revision F	



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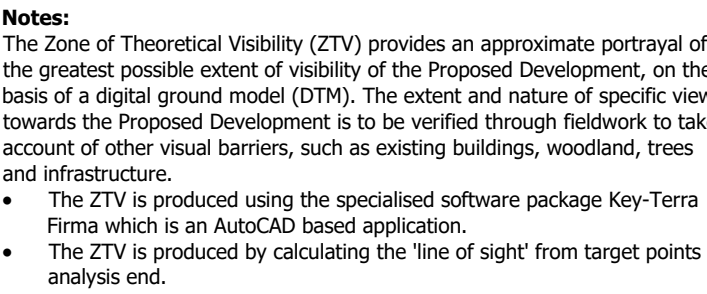
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LEGEND

- Site Boundary
- Cumulative Scheme Boundaries
- 5km Buffer from Site Boundary
- Existing Woodlands, Copses and Tree Belts ^
- Existing Water Courses and Features ^
- Contours/Spot Heights (Metres AOD) ^

- Zone of Theoretical Visibility (Site and Cumulative Schemes) Potentially Visible
- Site Only Potentially Visible
- Site Not Visible, One or More Cumulative Schemes Potentially Visible



Sources:
OS Mapping
Natural Resources Wales GIS Data Set
+ Substrans National Cycle Network GIS Data

Data collated for constraints and analysis mapping is based on publicly available sources at the time of preparation inserted using the British National Grid and may itself not be accurate. Stantec shall not be liable for the accuracy of data derived from external sources.

- Parameters:
- The study area for the ZTV is 11.2 x 14.1 km
 - The ZTV accounts for ground topography on the basis of a model made from Ordnance Survey Terrain 50 data in the form of 3D points data on a 50m grid;
 - The ZTV does not account for existing features, other than woodland blocks and existing buildings, derived from OS Mapping, with the following assumptions:
 - Buildings: 8.5m high
 - Woodland Blocks: 12m high;
 - The ZTV of the Site is based on targets across the proposed panels at a height of 3.31m above existing ground level;
 - The ZTV of the Cumulative schemes based on targets across each site at a height above existing ground level derived from the scheme description, refer to the Cumulative Scheme report for full details;
 - The ZTV assumes an observer height of 1.7m above ground level; and
 - The ZTV portrays the extent of visibility of the Proposed Development on the basis of if a target point is visible within a given 50m grid square.

Cumulative Schemes
Indicating assumed heights of targets for ZTV

- A Bodelwyddan 40-2024-1575-EJA-SCO BESS (3.2m)
- B Awel y Mor EN010112 Onshore Substation (15m)
- C Mona EN010137 Onshore Substation Option 2 (20m)
- D Mona EN010137 Onshore Substation Option 7 (20m)
- E Bodelwyddan 31-2022-0825 Substation Extension (12.5m)
- F Bryn Morfa 40-2023-0627 31no. Dwellings (8m)
- G Opposite Glan Cwyd Hospital 40-2021-0825 108no. Dwellings (10m)
- H St Asaph Business Park 40-2021-0309 Care Home (14.6m)
- I Glan Cwyd Hospital 40-2023-0473 Multi Storey Car Park (10m)
- J Glan Cwyd Hospital 40-2023-0473 Hospital Unit (19.5m)
- K Cyl y Coad 28-2023-0851 22no. Dwellings (8m)
- L Welsh Ambulance 46-2023-0480 28no. Dwellings (8m)
- M Vista Site 46-2021-059 Commercial (8.6m)
- N Upper Denbigh Road 46-2021-1161 113no. Dwellings (8m)
- O Bod haulog 46-2019-0806 (46-2025-0047-PR) 28no. Dwellings (10m)
- P Maes Owen Abergele Road 40-2024-1079-PF 49no. Dwellings (10m)

FIGURE 7.8
Project
St Asaph Solar Farm

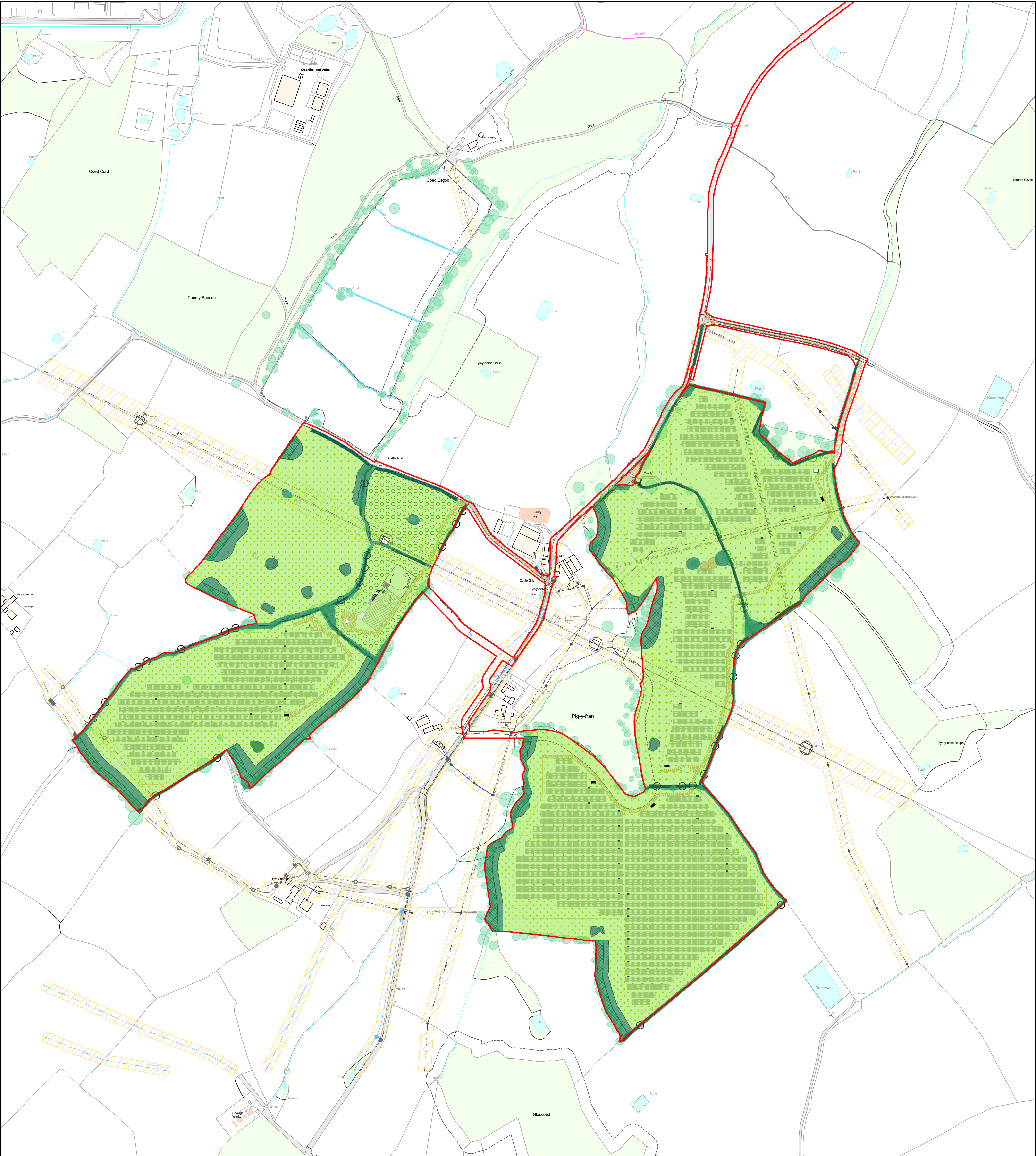
Drawing Title
Zone of Theoretical Visibility Plan
Cumulative Schemes

Date: 19.03.2026
Project No: 33010

Scale: 1:20,000 @A1
1:40,000 @A3
Drawing No: LN-LP-15

Drawn by: ML
Check by: DP
Revision: B





LEGEND

Site Boundary

Landscape Management Zones & Constituent Landscape Components

- Zone 1 - Open Field

1. Meadow Grassland;

2. Proposed Fencing and Hard Surfacing;
- Zone 2 - Structural Landscape

4. Trees and Woodland;

5. Hedgerows and Scrub;

6. Ponds, Pond Scrapes and Ditches;

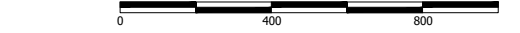
7. Bird Boxes, Bat Boxes and Owl Boxes

FIGURE 7.9

Project
St Asaph Solar Farm

Drawing Title
Landscape Management Zones Plan

Date	Scale	Drawn by	Check by
02.02.2023	1:2,500 @A1	AK/OF	DP
Project No	Drawing No	Revision	
33010	LN-LP-14	A	



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