

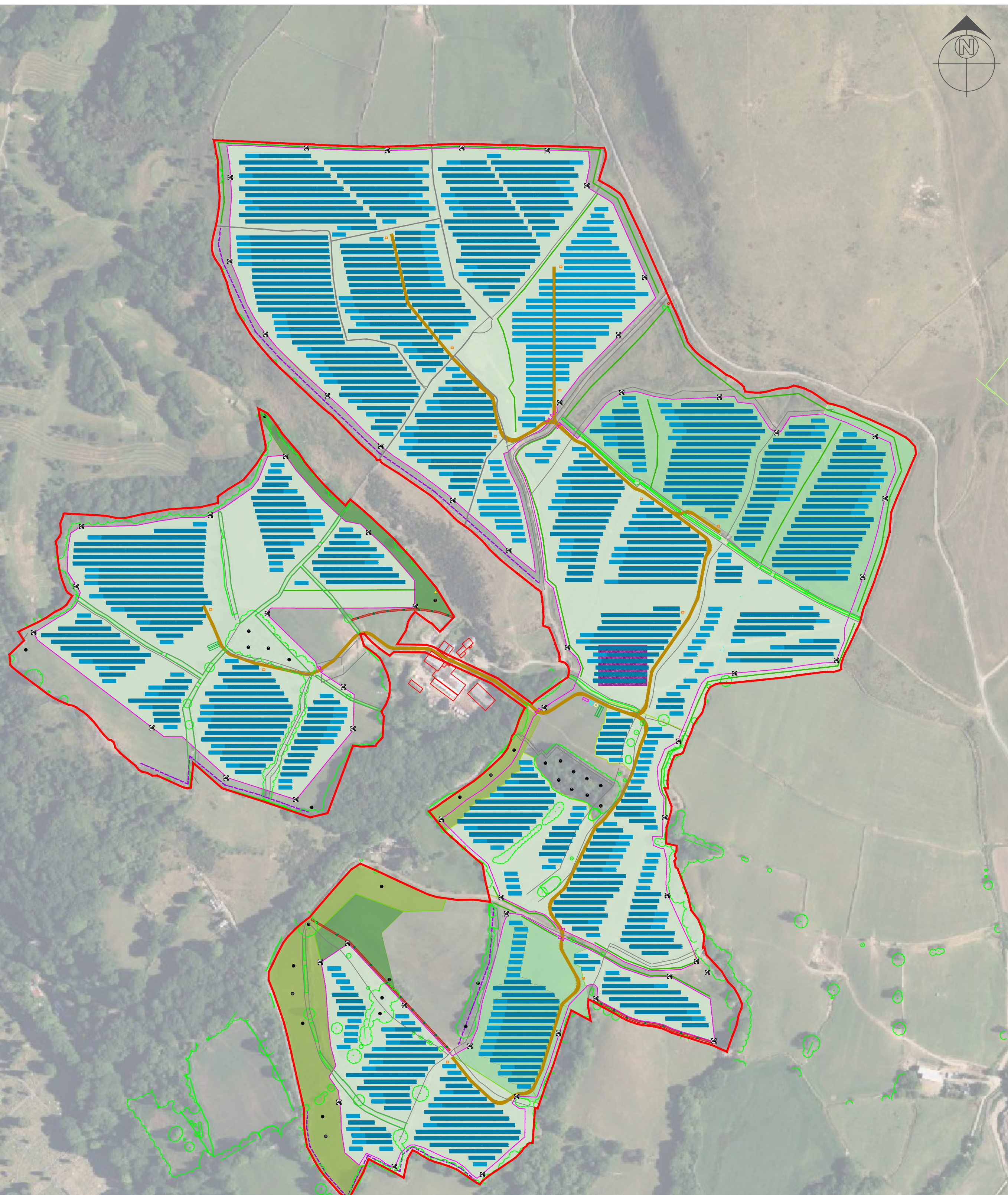
Acidic Soils Mixes				Shade Mix			
Note: Final parameters chosen to best suit the underlying soil conditions and to be approved by the ecologist.				Note: Final parameters chosen to best suit the underlying soil conditions and to be approved by the ecologist.			
80% Grassland Mix & 20% Wildflower Mix				80% Grassland Mix & 20% Wildflower Mix			
Sow rate of 40kg/ha.				Wildflower Mix			
Wildflower Mix				Sow rate of 40kg/ha.			
Latin Name	Common Name	Latin Name	Common Name	Latin Name	Common Name	Latin Name	Common Name
<i>Hypochaeris radicata</i>	Common catsear	<i>Centaurea nigra</i>	Common knapweed	<i>Succisa pratensis</i>	Devils bit scabious	<i>Knautia arvensis</i>	Field scabious
<i>Primula veris</i>	Cowslip	<i>Galium verum</i>	Lady's bedstraw	<i>Alliaria petiolata</i>	Garlic mustard	<i>Anthriscus sylvestris</i>	Cow parsley
<i>Leontodon hispidus</i>	Autumn hawkbit	<i>Ranunculus acris</i>	Meadow buttercup	<i>Aruncus dioicus</i>	Goats beard	<i>Centaurea nigra</i>	Black knapweed
<i>Achillea millefolium</i>	Yarrow	<i>Betonica officinalis</i>	Betony	<i>Geranium robertianum</i>	Herb Robert	<i>Malva moschata</i>	Musk mallow
<i>Teucrium scorodonia</i>	Wood sage	<i>Digitalis purpurea</i>	Wild foxglove	<i>Rubra holostea</i>	Greater stitchwort	<i>Silene dioica</i>	Red campion
<i>Vicia cracca</i>	Tufted vetch	<i>Rumex acetosa</i>	Common sorrel	<i>Achillea millefolium</i>	Yarrow	<i>Galium mollugo</i>	Hedge bedstraw
<i>Lotus corniculatus</i>	Birdfoot trefoil	<i>Rhinanthus minor</i>	Yellow rattle	<i>Filipendula ulmaria</i>	Meadow sweet	<i>Plantago lanceolata</i>	Ribwort plantain
<i>Silene flos-cuculi</i>	Ragged robin	<i>Rumex acetosella</i>	Sheeps sorrel	<i>Leucanthemum vulgare</i>	Oxeye daisy	<i>Silene latifolia</i>	White campion
<i>Plantago lanceolata</i>	Ribwort plantain			<i>Primula veris</i>	Cowslip	<i>Ranunculus acris</i>	Meadow buttercup
Grassland Mix				Grassland Mix			
Latin Name	Common Name	Latin Name	Common Name	Latin Name	Common Name	Latin Name	Common Name
<i>Agrostis capillaris</i>	Common bent	<i>Festuca rubra litoralis</i>	Slender creeping red fescue	<i>Prunella vulgaris</i>	Selheal	<i>Lathyrus pratensis</i>	Meadow vetchling
<i>Cynosurus cristatus</i>	Crested dogstail	<i>Festuca rubra ssp. rubra</i>	Strong creeping red fescue	Grassland Mix			
<i>Festuca ovina</i>	Sheeps fescue	<i>Poa pratensis</i>	Smooth stalked meadow grass	Latin Name	Common Name	Latin Name	Common Name
Native Welsh Countryside Wildflower Mix				<i>Agrostis capillaris</i>	Common bent	<i>Festuca ovina</i>	Sheeps fescue
Note: Final parameters chosen to best suit the underlying soil conditions and to be approved by the ecologist.				<i>Avenella flexuosa</i>	Wavy hairgrass	<i>Trisetum flavescens</i>	Yellow oatgrass
50% Grassland Mix & 50% Wildflower Mix				<i>Festuca rubra</i>	Creeping red fescue	<i>Festuca rubra litoralis</i>	Slender creeping red fescue
Wildflower Mix				Sow rate of 40kg/ha.			
Latin Name	Common Name	Latin Name	Common Name				
<i>Narcissus pseudonarcissus</i>	Wild daffodil	<i>Filipendula vulgaris</i>	Dropwort				
<i>Hyacinthoides non-scripta</i>	Bluebell	<i>Campanula rotundifolia</i>	Harebell				
<i>Silene dioica</i>	Red Campion	<i>Centaurea scabiosa</i>	Greater knapweed				
<i>Centaurea stoebe</i>	Knapweed	<i>Linaria vulgaris</i>	Toadflax				
<i>Echium vulgare</i>	Vipers Bugloss						
Grassland Mix							
Latin Name	Common Name	Latin Name	Common Name				
<i>Agrostis capillaris</i>	Common bent	<i>Briz media</i>	Quaking grass				
<i>Cynosurus cristatus</i>	Crested dogstail	<i>Festuca rubra ssp. commutata</i>	Chewings fescue				
<i>Festuca ovina</i>	Sheeps fescue	<i>Anthoxanthum odoratum</i>	Sweet Vernal				

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<i>Festuca ovina</i>	Sheeps fescue	<i>Anthoxanthum odoratum</i>	Sweet Vernal

Indicative Planting Mixes						
Latin Name	Common Name	Mix %	Height/girth	Root / Container	Form	
Hedgerow Mix						
Planted as double staggered rows at 6 per metre and spacing of 300-400mm between rows or as individual whip planting through existing gaps as required.						
<i>Corylus avellana</i>	Hazel	8	60-90cm	BR	Transplant	
<i>Crataegus monogyna</i>	Hawthorn	55	60-90cm	BR	Transplant	
<i>Euonymus Europaeus</i>	Spindle	8	60-90cm	BR	Transplant	
<i>Ilex aquifolium</i>	Holly	10	40-60cm	C		
<i>Prunus spinosa</i>	Blackthorn	10	60-90cm	BR	Transplant	
<i>Rosa canina</i>	Dog Rose	2	60-90cm	BR	Transplant	
<i>Viburnum opulus</i>	Guelder Rose	7	60-90cm	BR	Transplant	

Feathered Trees						
Latin Name	Common Name	Mix %	Height/girth	Root / Container	Form	
Feathered Trees to be added as part of the Screen Mix below.						
<i>Alnus glutinosa</i>	Alder	20	150-200cm	RB	Feathered/Standard	
<i>Prunus padus</i>	Bird Cherry	15	150-200cm	BR	Feathered/Standard	
<i>Quercus petraea</i>	Sessile Oak	20	150-200cm	RB	Feathered/Standard	
<i>Malus sylvestris</i>	Crab Apple	20	150-200cm	RB	Feathered/Standard	
<i>Sorbus aria</i>	Whitebeam	25	150-200cm	RB	Feathered/Standard	
Screening Mix						
Planted at 3m ² in groups of no more than 7 of the same species and to consist of the following mix:						
<i>Alnus glutinosa</i>	Alder	25	120-150cm	BR	Transplant	
<i>Crataegus monogyna</i>	Hawthorn	25	120-150cm	BR	Transplant	
<i>Euonymus Europaeus</i>	Spindle	8	60-90cm	BR	Transplant	
<i>Ilex aquifolium</i>	Holly	2	60-80cm	C		
<i>Prunus spinosa</i>	Blackthorn	10	100-120cm	BR	Transplant	
<i>Sambucus nigra</i>	Elderberry	5	60-90cm	BR	Transplant	
<i>Viburnum opulus</i>	Guelder Rose	10	60-90cm	BR	Transplant	
<i>Salix cinerea</i>	Grey Willow	15	100-120cm	BR	Transplant	

ESTABLISHMENT & MAINTENANCE SCHEDULE YEAR 0 TO YEAR 5	JANUARY												FEBRUARY					MARCH					APRIL					MAY					JUNE					JULY					AUGUST					SEPTEMBER					OCTOBER					NOVEMBER					DECEMBER				
	Grassland Areas (maintained as below or grazed by small livestock refer to Green Infrastructure and Landscape Strategy Report):																																																																		
Grass cutting (and removal of arisings/clippings off site)																																																																			
Weed Control																																																																			
Fertiliser spring application																																																																			
Fertiliser autumn application																																																																			
Litter & fallen leaf removal																																																																			
Wildflower Grassed Areas : Seed preferably in August/September. Can also be sown in March/April.																																																																			
Grass cutting (arisings to be removed from site)																																																																			
Habitat Provision:																																																																			
Installation of bird boxes and bat boxes.																																																																			
Creation of hibernacula, invertebrate hotels & bee banks																																																																			
Adaptation of security fencing for badger gates																																																																			
Management of bird boxes																																																																			
Management of bat boxes.																																																																			
Management of hibernacula, invertebrate hotels & bee banks																																																																			



Outline Landscape Specifications:

Existing Vegetation:

Any necessary works being undertaken within close proximity and to the retained tree lined hedgerows should be carried out in accordance with BS 3998:2010 Tree work Recommendations and BS 5837:2012 Trees in relation to design demolition and construction.

Proposed Planting:

Planting to be supplied in accordance with BS 3936-1:1992 Nursery Stock, specification for trees and shrubs, BS 3936-4:2007 Nursery Stock, Specification for forest trees, poplars and willows, BS 8545:2014 Trees from nursery to independence in the landscape. All landscaping works to be in accordance with BS4428:1989 "General Landscaping Works." All planting should be sourced from local provenance certified seed stock where possible and from an approved supplier of the Green, Low-Carbon, Agri-Environment Scheme (GLAS), other sources will need to be approved.

Feathered Tree Planting:

Trees will be planted into tree pits 2-3 times the width of root spread and to the depth of root spread. The tree pit's sides are to be loosened, base aerated and later backfilled with the existing excavated subsoil and topsoil. All trees to be supported with a suitable tree guard and staked with adjustable tree ties.

Hedgerow Planting:

The new hedgerows will be planted into a hand dug trench, measuring a min of 600mm wide and 300mm deep, allowing enough width and depth for the roots. Similarly, infill planting of whips along existing hedgerows to be carried out by slit planting or trenching. Layering may be considered where it can possibly achieve better filling out of gaps of less than 1m wide. Prior to planting up gaps in the existing hedgerows any scrub or ivy should be cleared from around their bases. The existing soil should be improved by digging in well rotten Farm Yard Manure or other soil improver. All hedging will be supported with rabbit guards and canes and 1m wide mulch matting. Temporary stock proof fencing should be used to prevent grazing of new hedgerows by livestock if necessary.

Grassland & Wildflower Planting:

The fields will be sown with Acidic Soils Mix, Shade Mix, Native Welsh Countryside Wildflower Mix, Low Level Shrub Mix which will be lightly grazed by sheep or cutting. This seeding mix should be applied only to areas of disturbed lands within the areas indicated on the plan.

Timing & Aftercare:

Planting of the hedgerow mixes to take place during the months of November to March, preferably before January and at a time when the soil is not frozen or waterlogged. The new plants will be watered in at the time of planting and regularly during their first year. All hedgerow and tree species will have a minimum 1m wide radius free of any weeds until 3 years after planting, when they are well established. Weeding will be done using a mulch mat and an approved herbicide as required in order to prevent competition for nutrients from weeds and grasses.

The planting supports and guards will be inspected regularly to ensure they are not impeding the plant's growth and will be adjusted or replaced as required. These will be removed when the planting is established within the initial 3 years.

Areas of grassland to be planted in early spring or late summer. The wildflower mix will need to be continuously managed with an appropriate management regime to maintain a high level of flowering species. If any areas become scarce of wildflowers these should be reestablished as required. The grassland mixes will be replaced on an annual basis.

The new hedgerow planting will be reduced by a third in height immediately after planting for hawthorn and blackthorn, with other species lightly pruned and cut later in the first autumn. Pruning will be required in the second year to encourage bushy growth by removing half of the previous year's growth. The plants will be shaped in the third year by trimming both lateral and lead branches. The hedging will be cut on a rotational basis using mechanical methods approximately every 2-3 years and shaped to an 'A' shape with no more than one half of all hedge trimmed in any given year. Trees should be excluded from cutting and allowed to grow upwards unless detrimental to tree or public health, or the operation of the solar farm. All hedge cutting will be undertaken outside of the nesting bird period (beginning of March to end of August).

The grassland will be managed by light grazing or cutting several times in the first year to reduce competition from annual weeds and allow the grass to become established. Weeds may also need treating through spot treatment with an appropriate approved herbicide. In the second year and onwards the grassland can be maintained by a light grazing regime through the year or by cutting. Areas of wildflower mix will similarly need controlling of any initial flushes of weeds and persistent weeds. The wildflower mix will be maintained by an annual cut after they have flowered, with the cut growth allowed to sit to release any seeds prior to it being removed off site.

Any loss of planting which occurs within 5 years of the initial planting as a result of plant failure will be replaced with the same plant species. An exception to this is acid grassland beneath the panel footprint, which will be replanted with shade tolerant mix.

Habitat Homes Creation:

Details on the design and dimensions of the bee bank, bat boxes, bird boxes, hedgehog house, insect hotel and hibernaculum can be found in the accompanying NBB report within this planning application.

Key

Proposed Site Features

- Solar Arrays
- Storage Containers
- Customer Station
- Aux Transformer
- Monitoring House
- Access Track
- Temporary Construction Compound
- Gates
- Proposed Security Fencing
- Site Boundary
- Land Ownership Boundary
- CCTV
- Existing Vegetation

Landscaping & Ecology Measures

- Proposed Screen Planting
- Proposed Screen Planting
- Proposed Infill Planting
- Proposed Low Level Shrub Mix
- Proposed Native Welsh Countryside Wildflower Mix
- Proposed Acidic Soil Mix
- Proposed Shade Mix
- Proposed Bat Box - No.8
- Proposed Bee Box - No.6
- Proposed Insect Hotel - No.3
- Proposed Herpette Hibernacula - No.4

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Ver.	Date	Comments

A 27/02/2025 Landscape Ecology Management Plan



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Project: Glyntaff Figure: 11.22a
 Client: Renantis

Drawing: LEMP

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Scale: 1:3500 @ A1 Revision:
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