

Indicative Planting Schedule:

Trees:
All trees root ball, feathered, and 2x age to be planted as shown on plan.

- Ainus glutinosa*, Alder, 300-350cm 25%
- Betula pubescens*, Downy Birch, 300-350cm 20%
- Salix caprea*, Goats Willow, 250-300cm 15%
- Salix pentandra*, Bay Willow, 250-300cm 25%
- Sorbus aucuparia*, Rowan, 300-350cm 10%
- Prunus avium*, Wild Cherry, 250-300cm 5%

Hedgerow Mix:

Planted up behind or through gaps in the site's exterior boundaries. Planted as double staggered rows at 6-8 per metre and spacings of 300-400mm.

- Corylus avellana*, Hazel, 1+1 120-150cm BR 10%
- Crataegus monogyna*, Hawthorn, 1+2 120-150cm BR 55%
- Ilex aquifolium*, Holly 60-90cm C 5%
- Prunus padus*, Bird Cherry 1+2 120-150cm BR 5%
- Prunus spinosa*, Blackthorn, 1+2 120-150cm BR 5%
- Rosa canina*, Dog Rose, 1+0 120-150cm BR 5%
- Viburnum opulus*, Guelder Rose, 1+1 60-90cm BR 5%
- Ulex europaeus*, Gorse, 1+1 60-90cm 2L CG 5%
- Lonicera periclymenum*, Honey Suckle 60-90cm C 5%

Scrub Mix:

Plant at 3 per Sq. Metre

- Salix caprea*, Goat Willow 5% 60-90cm whips
- Corylus avellana*, Hazel 15% 60-90cm whips
- Ilex aquifolium*, Holly 10% 2 litre pots
- Crataegus monogyna*, Hawthorn 45% 60-90cm whips
- Prunus spinosa*, Blackthorn 25% 60-90cm whips

Seed Mixes
The final seed mixes will be chosen to best suit the soil and site conditions and to be approved by an ecologist.

Species Rich Grassland Mix:

Sow rate of 4g per Sq. Metre Devon Meadow Seed Mixture from British Wildflower Seeds or similar in accordance with Natural England (2011) Natural England Technical Information Note TIN101 to limit soil erosion.

To consist of the following species mix:

- Poa pratensis*, Smooth-stalked Meadow-grass 12%
- Anthoxanthum odoratum*, Sweet Vernal Grass 10%
- Cynosurus cristatus*, Crested Dogstail 9%
- Festuca ovina*, Sheep's Fescue 9%
- Festuca rubra* ssp. *commutata*, Chewing's Fescue 9%
- Festuca rubra* ssp. *littoralis*, Slender Red Fescue 9%
- Hordeum secalinum*, Meadow Barley 9%
- Trisetum flavescens*, Yellow Oatgrass 8%
- Briza media*, Quaking Grass 3%
- Agrostis scabra*, Rough Bent 3%
- Centaurea nigra*, Knapweed 2%
- Hypochaeris radicata*, Catsear 1%
- Medicago lupulina*, Black Medic 0.8%
- Leontodon hispidus*, Rough Hawkbit 0.7%
- Rhinanthus minor*, Yellow Rattle 0.7%
- Plantago lanceolata*, Ribwort Plantain 0.7%
- Trifolium pratense*, Red Clover 0.7%
- Trifolium repens*, White Clover 0.7%
- Ranunculus acris*, Meadow Buttercup 0.7%
- Rumex acetosella*, Red Sorrel 0.7%
- Lotus corniculatus*, Birdsfoot Trefoil 0.7%
- Myosotis arvensis*, Field Forget-me-not 0.7%
- Agrostemma githago*, Corncockle 0.7%
- Papaver rhoeas*, Common Poppy 0.7%
- Centaurea cyanus*, Comflower 0.7%
- Lathyrus pratensis*, Meadow Vetchling 0.7%
- Echium vulgare*, Viper's-Bugloss 0.7%
- Prunella vulgaris*, Selfheal 0.7%
- Betonica officinalis*, Betony 0.7%
- Primula veris*, Cowslip 0.7%
- Daucus carota*, Wild Carrot 0.7%
- Anthriscus sylvestris*, Cow Parsley 0.7%
- Silene dioica*, Red Campion 0.7%
- Achillea millefolium*, Yarrow 0.7%
- Ranunculus bulbosus*, Bulbous Buttercup 0.5%
- Dactylorhiza fuchsia*, Common Spotted Orchid 0.5%
- Oenanthe pimpinelloides*, Corky-fruited Water Dropwort 0.5%

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*, BS 5837:2012 *Trees in Relation to Design Demolition and Construction* and NJUG 4 *Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees* and in consultation with an arborist.

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 source from local provenance certified seed stock where possible with other sources needing to be approved.

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:

Hedging planted into a trench measuring a min of 600mm wide and 300mm deep, allowing enough width and depth for the roots. Short lengths of individual whip infilling may be undertaken by silt planting. 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 of 1.2m high should be used to prevent grazing of new hedgerows by livestock if necessary. Any planting being carried out within the ecological constraints buffer area to be hand dug and supervised by the ECOV.

Grassland & Wildflower Planting:

The disturbed areas of grassland will be sown with a mix of tussock grasses, which will be lightly grazed by sheep or maintained by cutting. The areas of wildflower mix will be separated from this grassland by a stock-proof fencing to prevent any possible grazing by animals.

Timing & Aftercare:

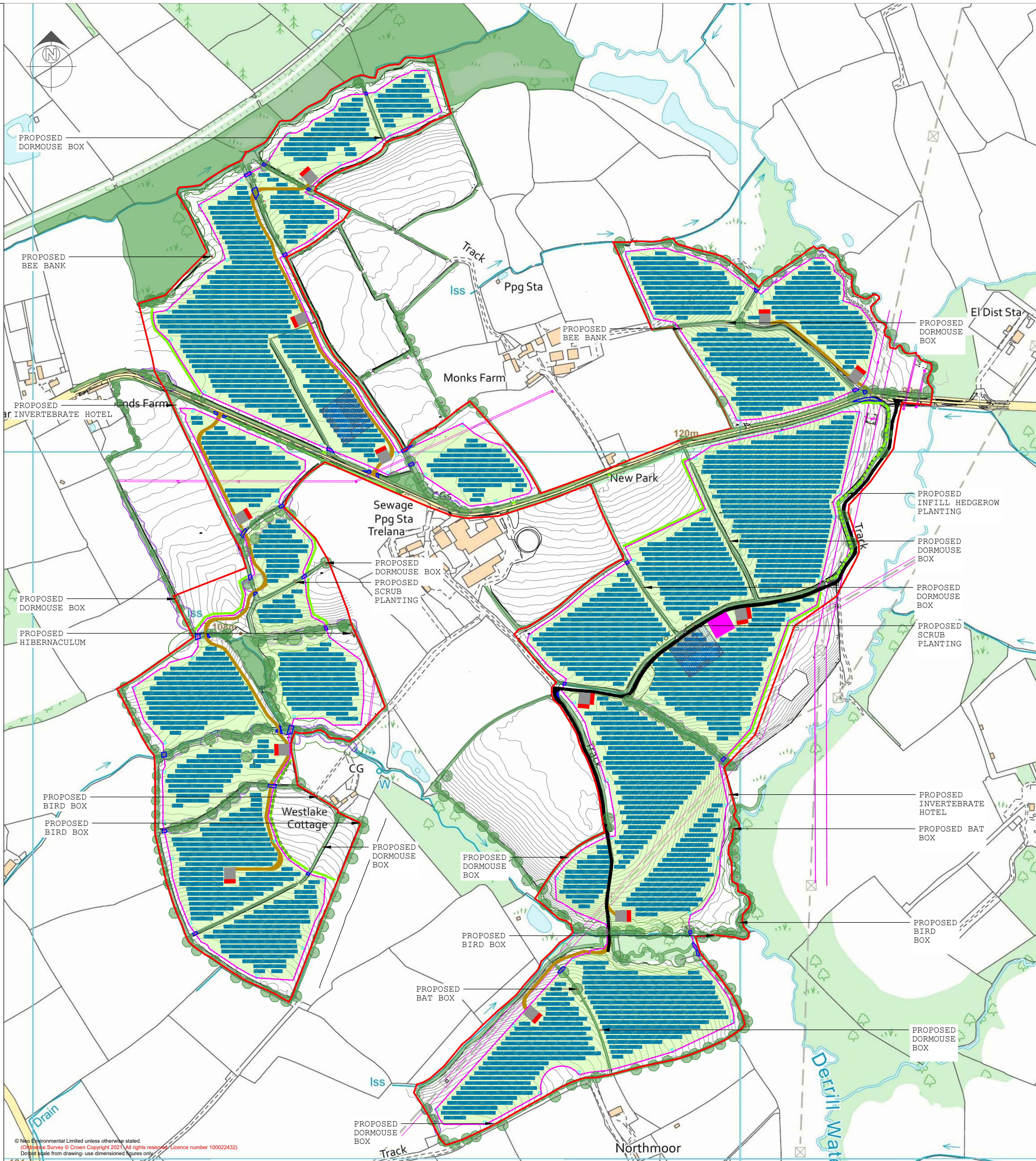
Planting of the hedgerow mix to take place during the months of November to March, preferably before January and at a time when the soil is not frozen or waterlogged. The new plants will be watered in at the time of planting and regularly during their first year. All tree and hedgerow species will have 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 either by hand or mechanical control 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 plants growth and will be adjusted or replaced as required. These will be removed when the planting is established within the initial 3 years.

The new hedgerow planting will be reduced by a third in height immediately after planting 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. All hedge cutting will be undertaken outside of the nesting bird period (beginning of March to end of August).

The tussock 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 selective scything before setting seed. In the second year and onwards the grassland can be maintained by a light grazing regime through the year or by cutting.

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. Final location and number of bird nest boxes and bat boxes to be determined on site by an ecologist.



Key

- Proposed Site Features**
- Site Boundary
 - Indicative Solar PV Array
 - New Access Track
 - Hardstanding
 - Inverter Substation
 - Temporary Construction Compound
 - Fencing
 - Upgraded Access Track
 - CCTV
 - 33kV Substation

- Landscaping & Ecology Measures**
- Indicative Existing Hedgerow & Trees to be retained
 - Indicative Hedgerow & Scrub to be removed
 - Proposed Trees
 - Proposed New Hedgerow Planting
 - Proposed Species Rich Tussock Grassland Mix
 - Proposed Bee/Beetle Bank
 - Proposed Hibernaculum
 - Proposed Bird & Bat Boxes
 - Proposed Scrub Planting
 - Proposed Dormouse Box
 - Proposed Invertebrate Hotel

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Ver.	Date	Comments
B	06/08/2021	Amendments to mitigation & text
A	16/02/2021	

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Project: Derril Water Solar Farm
Client: RES
Drawing: Landscape & Environment Management Plan
Project No.: NEO00738
Drawing No.: NEO00738_77 Figure 1.14
Drawn: GC **Checked:** MM **Approved:** PN
Scale: 1:5000 @ A1 **Revision:**
Date: 06 August 2021 **B**

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Dotted scale from drawings- use dimensioned figures only.