



TREES						
Ac.c	Qty	Species	Size			
Ac.c	22	Acer campestre	8-10cm, 250-300cm ht, B, 2x, standard, 175-200cm cs, 3 breaks			
A.gl	21	Alnus glutinosa	8-10cm, 250-300cm ht, B, 2x, standard, 175-200cm cs, 3 breaks			
B.p	16	Betula pendula	8-10cm, 250-300cm ht, B, 2x, standard, 175-200cm cs, 3 breaks			
B.pu	12	Betula pubescens	8-10cm, 250-300cm ht, B, 2x, standard, 175-200cm cs, 3 breaks			
C.b	6	Carpinus betulus	8-10cm, 250-300cm ht, B, 2x, standard, 175-200cm cs, 3 breaks			
Q.ro	29	Quercus robur	8-10cm, 250-300 cm ht, B, 2x, standard, 175-200cm cs, 3 breaks			
S.fr	23	Salix fragilis	8-10cm, 250-300cm ht, B, standard, 175-200cm cs, 3 breaks			
S.au	9	Salix alba	8-10cm, 250-300cm ht, B, 2x, standard, 175-200cm cs, 3 breaks			
WOODLAND BUFFER MIX						
Planted at 1.5m centres						
ID	Qty	Species	%	Size		
A.ca	138	Acer campestre	15	40-60cm, Branched, 1+1, B		
A.gl	138	Alnus glutinosa	15	40-60cm, Branched, 1+1, B		
B.pen	92	Betula pendula	10	40-60cm, Branched, 1+1, B		
B.pub	92	Betula pubescens	10	40-60cm, Branched, 1+1, B		
C.bet	46	Carpinus betulus	5	40-60cm, Branched, 1+1, B		
I.aqu	46	Ilex aquifolium	5	40-60cm ht, 3L pot		
M.syl	46	Malus sylvestris	5	40-60cm, Branched, 1+1, B		
P.av	46	Prunus avium	5	40-60cm, Branched, 1+1, B		
Q.ro	184	Quercus robur	20	40-60cm, Branched, 1+1, B		
S.cap	92	Salix caprea	10	40-60cm ht, 3L pot		

NEW NATIVE HEDGEROW MIX - 5 / sq metre				
ID	Qty	Species	%	Size
A.c.	1217	Acer campestre	10	40-60cm, Branched, 1+1, B
C.av	3047	Corylus avellana	25	40-60cm, Branched, 1+1, B
C.mo	4264	Crataegus monogyna	35	40-60cm, Branched, 1+1, B
I.aq	305	Ilex aquifolium	2.5	40-60cm, 2L pot
M.syl	610	Malus sylvestris	5	40-60cm, Branched, 1+1, B
P.sp	1217	Prunus spinosa	10	40-60cm, Branched, 1+1, B
R.c.	205	Rosa canina	2.5	40-60cm, Branched, 1+1, B
S.cap	410	Salix caprea	5	40-60cm, 2L pot
V.op	395	Viburnum opulus	2.5	40-60cm, Branched, 1+1, B

NEW NATIVE HEDGEROW MIX - low density hedge infill - 2 / sq metre				
ID	Qty	Species	%	Size
A.c.	47	Acer campestre	10	40-60cm, Branched, 1+1, B
C.av	118	Corylus avellana	25	40-60cm, Branched, 1+1, B
C.mo	165	Crataegus monogyna	35	40-60cm, Branched, 1+1, B
I.aq	12	Ilex aquifolium	2.5	40-60cm, 2L pot
M.syl	24	Malus sylvestris	5	40-60cm, Branched, 1+1, B
P.sp	47	Prunus spinosa	10	40-60cm, Branched, 1+1, B
R.c.	12	Rosa canina	2.5	40-60cm, Branched, 1+1, B
S.cap	24	Salix caprea	5	40-60cm, 2L pot
V.op	12	Viburnum opulus	2.5	40-60cm, Branched, 1+1, B

F	241024	VR	TPO tree annotation
E	200623	KA	Minor amendments
D	190623	KA	Changes to layout
C	200123	VR	Changes to layout
B	051022	VR	Changes to layout
A	220922	VR	Minor amends
Rev	Date	By	Note

SOUTHLANDS SOLAR FARM - Detailed Landscape Design

KEY

EXISTING

- Trees & vegetation
- Pedestrian link

PROPOSED

- Emorgate EM1 - Basic General Purpose Meadow Mixture, or similar approved (outside the security fence)
- Emorgate EG27- Special Old Fashioned Grazing Mixture, or similar approved (within the security fence)
- Proposed tree planting
- Fence line
- Permeable sub-base
- Existing tree group subject to Tree Preservation Order (TPO)

MAINTENANCE

Trees

All trees shall be regularly checked and any broken ties, guards or stakes replaced. Mulch shall be topped up to maintain original levels. In periods of dry weather all trees shall be regularly watered to field capacity. The area around the base of each tree is to be kept mulched to 50mm depth minimum and weed free to a minimum diameter of 1m. At the end of each growing season all trees shall receive an application of slow release fertiliser. After approximately 5 years, stakes and ties should be removed once trees have established. Any trees that fail to thrive shall be replaced with stock to the original specification.

Native Hedgerow Mix

All hedgerows shall be maintained weed free and any loose plants re-firmed. All canes and spirals where employed shall be regularly checked and adjusted or replaced as required. All hedge lines shall be regularly watered in times of drought to field capacity and shall receive an application of slow release fertiliser at the end of the maintenance period. Mulch shall be regularly topped up to original levels. All hedge lines shall be allowed to grow up to a minimum of 3m high and maintained at 3m+. Any plants that fail to thrive shall be replaced with stock to the original specification.

Native Woodland Buffer Mix

All planting stock shall be maintained weed free and any loose plants re-firmed. All canes and spirals where employed shall be regularly checked and adjusted or replaced as required. All planted areas shall be regularly watered in times of drought to field capacity and shall receive an application of slow release fertiliser at the end of the maintenance period. Mulch shall be regularly topped up to original levels. Any plants that fail to thrive shall be replaced with stock to the original specification. All plant stations to be watered to field capacity during periods of extended drought. Any plants that fail to thrive shall be replaced with stock to the original specification.

Species Rich Grass Mix

Areas of grassland should be allowed to grow to full height and be cut once a year at the end of August or managed by grazing.

NOTES

- Bare root plants specified for planting during planting season only (i.e. winter months). Containerised and rootballed stock to be employed when necessary as advised by supplier.
- No cultivation should be undertaken in wet/waterlogged conditions or after heavy frosts;
- Imported topsoil to accord with BS3882.
- Supplying nurseries shall be registered under the HTA Nursery Certification Scheme, and plant material should be of certified British provenance.
- All plants shall be packed and transported in accordance with the Code of Practice for plant handling as Published by The Committee for Plant Supply and Establishment (CPSE).
- All plant material to conform with BS:3936 and BS:4428.
- Planting operations to be undertaken during appropriate climatic conditions to avoid wet/waterlogged or frost bound soil conditions, frosts, droughts or during periods of excessive cold drying winds.

LANDSCAPE SPECIFICATION

Trees

Root barriers are to be employed near services. All standard trees are to be planted in separate pits 1m x 1m x 900mm which shall be backfilled with a mixture of approved topsoil and tree and shrub planting compost at a rate of one part compost to two parts topsoil. Break up bottoms of pits to a depth of 150mm and scarify sides. Each tree shall be planted centrally within the pit to the original root collar and secured by two untreated softwood stakes 1.4m min. length with approved ties. After planting all trees shall be watered-in and a mulch layer of 1m diameter approved forest bark spread over the tree pit to 50mm depth. A spiral guard will be fixed to the base of each tree to protect it from rabbit attack and trimmer damage.

Native Hedgerow Mix

Hedgerow trenches shall be dug 450mm x 450mm x 450mm depth the base of which shall be broken up before returning the approved topsoil backfill mixture to the trench at the rate of one part compost to two parts topsoil. All stock shall be planted to the root collar and well firmed in place. After planting a 50mm layer of approved compost fine bark (nominal size 1-10mm) shall be spread over the whole hedge area (450mm wide). On completion, all hedge plants shall be thoroughly watered in. Hedges to be protected from rabbit damage by rabbit proof fencing or individual spirals/shrub guards as appropriate.

Native Woodland Buffer Mix

Individual pits shall be dug to a minimum of 450mm x 450mm x 300mm depth the base of which shall be broken up before returning the approved topsoil backfill mixture to the trench at the rate of one part compost to two parts topsoil. All stock shall be planted to the root collar and well firmed in place. After planting a 50mm layer of approved compost fine bark (nominal size 1-10mm) shall be spread over each pit (1m wide). On completion all plants shall be thoroughly watered in. Areas to be protected from rabbit damage by rabbit proof fencing or individual spirals/shrub guards, as appropriate.

Species Rich Grass Mix

Following construction of solar panels and immediately prior to seeding, remove any unwanted vegetation growth within the fields by scraping the surface to a depth of 150mm. The ground shall then be thoroughly broken up and cultivated and fine graded to even running falls before raking and cross raking. A suitable grass mix to be agreed shall be sown in accordance with good practice.

Seeding will take place in September to allow establishment prior to winter and reduce seed loss to birds. If soils and seed bed have been prepared before September, any weed growth that has established in the meantime will be sprayed off with glyphosate and a seedbed be re-prepared. Seed shall be broadcast by approved lightweight machinery. Following seeding the area will be subject to rolling to incorporate the seed with the growing substrate.

PROGRAMME

- All bare root planting to be undertaken during the planting season November – March. [All ground cultivations to be undertaken under suitable conditions].
- Seeding works and cultivation to be undertaken in the late summer to mid autumn or mid spring.
- Any replacement planting required during the initial maintenance period is to be undertaken during the planting season (November to March).