

Native Hedgerow					
Hedgerow Habitat Planting - Regular Low Inc. Trees					
Hedge Species	Height (cm)	Age	Root		
<i>Acer campestre</i> (Field maple)	60-80	1+1	B		
<i>Crataegus monogyna</i> (Hawthorn)	60-80	1+1	B		
<i>Prunus spinosa</i> (Blackthorn)	60-80	1+1	B		
<i>Fagus sylvatica</i> (Beech)	60-80	1+1	B		
<i>Ilex aquifolium</i> (Holly)	60-80	1+1	B		
Maintenance - Trunked at 1.6 high					
Tree Species (Within Hedgerow)	Code	Girth (cm)	Height (cm)	Clear stem (cm)	Root
<i>Acer campestre</i> (Field Maple)	Ac	10 to 12	200-250	180 mm	B
<i>Prunus avium</i> (Wild Cherry)	Pa	10 to 12	200-250	180 mm	B
<i>Prunus spinosa</i> (Blackthorn)	Sa	12 to 14	250-300	200 mm	B
<i>Quercus robur</i> (English Oak)	Qr	12 to 14	250-300	200 mm	B

Ditches	
EPF Wild Flowers for Pond Edges (Ermorsgate or acceptable equivalent)	EM8
Seeding Rate (g/m ²)	10
Species	%

Wild Flowers	
<i>Angelica sylvestris</i> (Wild Angelica)	5.00
<i>Centaurea nigra</i> (Common Knapweed)	12.00
<i>Dipsacus filiform</i> (Wild Teasel)	3.00
<i>Eupatorium cannabinum</i> (Heim Agrimony)	1.00
<i>Filipendula ulmaria</i> (Meadowsweet)	10.00
<i>Galium album</i> (Hedge Bedstraw)	5.00
<i>Geum melle</i> (Water Aven)	3.00
<i>Iris pseudacorus</i> (Yellow Iris)	20.20
<i>Lathyrus pratensis</i> (Meadow Vetchling)	4.00
<i>Lytium salicaria</i> (Purple Loosestrife)	1.50
<i>Lycopus europaeus</i> (Gyrowort)	0.50
<i>Oenanthe pimpinelloides</i> (Corky-fruited Water-dropwort)	1.00
<i>Plantago lanceolata</i> (Ribwort Plantain)	3.00
<i>Prunella vulgaris</i> (Selfheal)	4.00
<i>Ranunculus acris</i> (Meadow Buttercup)	5.00
<i>Silene dioica</i> (Red Campion)	14.00
<i>Silene fls-cuculi</i> (Ragged Robin)	6.00

Specimen Tree Planting - 1B				
Species	SUDS (cm)	Girth (cm)	Height (cm)	Clear stem (cm)
<i>Acer campestre</i> (Field Maple)	Y	20 to 25	600-700	250 min
<i>Acer campestre</i> William Calwell (Field Maple)	Y	20 to 25	600-700	250 min
<i>Acer x freemanii</i> (Freeman Maple)	Y	20 to 25	600-700	250 min
<i>Betula pendula</i> (Birch)	Y	18 to 20	500-600	220 min
<i>Carpinus betulus</i> (Hornbeam)	Y	20 to 25	600-700	250 min
<i>Corylus avellana</i> (Hazel)	N	18 to 20	500-600	220 min
<i>Ilex aquifolium</i> (Holly)	Y	18 to 20	500-600	220 min
<i>Liriodendron tulipifera</i> (Tulip Tree)	Y	20 to 25	600-700	250 min
<i>Prunus avium</i> (Wild Cherry)	Y	20 to 25	600-700	250 min
<i>Prunus avium</i> Plena (Wild Cherry)	N	20 to 25	600-700	250 min
<i>Prunus spinosa</i> (Blackthorn)	Y	18 to 20	500-600	220 min
<i>Quercus frainetto</i> (Hungarian Oak)	Y	20 to 25	600-700	250 min
<i>Quercus robur</i> (Pendiculate Oak)	Y	18 to 20	600-700	250 min
<i>Sorbus aucuparia</i> (Rowan)	Y	18 to 20	500-600	220 min
<i>Tilia cordata</i> (Greenspire (Small Leaved Lime)	Y	20 to 25	600-700	250 min
<i>Ulmus</i> New Horizon (Eim)	Y	20 to 25	600-700	250 min



Enhancement of Existing Vegetation to Other Neutral Grassland		
Species (Latin)	Common Name	%
EM Wildflower Meadow Mixture (Ermorsgate or acceptable equivalent)		
Wildflowers	Seeding Rate (g/m ²)	10
<i>Achillea millefolium</i>	Yarrow	0.75
<i>Betonica officinalis</i>	Betony	0.75
<i>Centaurea nigra</i>	Common Knapweed	2.25
<i>Daucus carota</i>	Wild Carrot	1.5
<i>Galium verum</i>	Lady's Bedstraw	0.4
<i>Geranium pratense</i>	Meadow Crane's-bill	1.25
<i>Plantago lanceolata</i>	Ribwort Plantain	1.5
<i>Potentilla sanguisorba</i> ssp	Sailed Burnet	1.5
<i>Potentilla vulgaris</i>	Cowslip	1
<i>Ranunculus acris</i>	Meadow Buttercup	1.1
<i>Ranunculus bulbosus</i>	Bulbous Buttercup	0.15
<i>Rumex acetosa</i>	Common Sorrel	0.4
<i>Silene vulgaris</i>	Bedder Cambrion	0.75
Grasses		85
<i>Agrostis capillaris</i>	Common Bent	8.5
<i>Cynosurus cristatus</i>	Crested Dogstail	29.75
<i>Festuca rubra</i>	Red Fescue	25.5
<i>Pleium berberionii</i>	Snailie Cat's-tail	4.25
<i>Poa nemoralis</i>	Wood Meadow-grass	17

Lowland Mixed Deciduous Woodland Planting - Typical species							
Species (Latin) (Common name)	Height (cm)	Age	Root / Container / Cell	%	Notes	Group size range (Number of plants)	Species Density (Plants/m²)
Trees - Feathers - 15%							
<i>Quercus robur</i> (Pendunculate Oak)	80 - 100	2x	B	7	-	3-7	0.25
<i>Fagus sylvatica</i> (Beech)	80 - 100	2x	B	5	-	3-7	0.25
<i>Tilia x europaea</i> (Lime)	80 - 100	2x	B	3	-	3-7	0.25
Trees - Whips - 30%							
<i>Betula pendula</i> (Birch)	60 - 80	1+2	B	12	-	3-7	0.25
<i>Fagus sylvatica</i> (Beech)	60 - 80	1+2	B	12	-	3-7	0.25
<i>Tilia x europaea</i> (Lime)	60 - 80	1+2	B	6	-	3-7	0.25
Trees - Transplants - 25%							
<i>Quercus robur</i> (Pendunculate Oak)	60 - 80	1+1	B	11	-	5-9	0.25
<i>Fagus sylvatica</i> (Beech)	60 - 80	1+1	B	9	-	5-9	0.25
<i>Tilia x europaea</i> (Lime)	60 - 80	1+1	B	5	-	8-12	0.25
Shrubs - 30%							
<i>Crataegus monogyna</i> (Hawthorn)	40-60	1+1	B	6	-	3-5	1
<i>Ligustrum vulgare</i> (Privet)	40-60	1+1	B	3	-	3-5	1
<i>Rubus fruticosus</i> (Blackberry)	40-60	1+1	B	2	-	3-5	1
<i>Rosa canina</i> (Wild Rose)	40-60	1+1	B	2	-	3-5	1
<i>Corylus avellana</i> (Hazel)	40-60	1+1	B	4	-	3-5	1
<i>Cornus sanguinea</i> (Dogwood)	40-60	1+1	B	3	-	3-5	1
<i>Viburnum opulus</i> (Guelder Rose)	40-60	1+1	B	2	-	3-5	1
<i>Prunus spinosa</i> (Blackthorn)	40-60	1+1	B	8	-	3-5	1
				100			

Hawthorn Planting			
Species (Latin)	Height (cm)	Age	Root
<i>Crataegus monogyna</i> (Hawthorn)	60-80	1+1	B

Woodland Seed Mix		
Species (Latin)	Common Name	%

EW1 Woodland Mixture (Ermorsgate or acceptable equivalent)		
Wildflowers	Seeding Rate (g/m ²)	10
<i>Allium ursinum</i>	Ranunculus	1
<i>Alliaria petiolata</i>	Garlic Mustard	2
<i>Angelica sylvestris</i>	Wild Angelica	0.5
<i>Anthriscus sylvestris</i>	Cow Parsley	1.5
<i>Aium maculatum</i>	Lords-and-Ladies	0.2
<i>Digitalis purpurea</i>	Foxglove	4
<i>Eupatorium cannabinum</i>	Hemp-agrimony	0.1
<i>Filipendula ulmaria</i>	Meadowsweet	0.8
<i>Galium album</i>	Hedge Bedstraw	1.5
<i>Geum urbanum</i>	Wood Aven	2.1
<i>Hyacinthoides non-scripta</i>	Bluebell	1.6
<i>Primula vulgaris</i>	Primrose	0.1
<i>Potentilla sanguisorba</i>	Sailed Burnet	1
<i>Ranunculus acris</i>	Meadow Buttercup	0.4
<i>Silene dioica</i>	Red Campion	3
<i>Telium scotodoria</i>	Wood Sage	0.2
Grasses		80
<i>Agrostis capillaris</i>	Common Bent	2.4
<i>Anthriscum odoratum</i>	Sweet Vernal-grass	1.6
<i>Brachiopodium sylvaticum</i>	Fleas Brome	0.8
<i>Cynosurus cristatus</i>	Crested Dogstail	48
<i>Deschampsia cespitosa</i>	Tufted Hair-grass	1.6
<i>Festuca rubra</i>	Red Fescue	19.2
<i>Poa nemoralis</i>	Wood Meadow-grass	6.4

Grass Swales & Attenuation Ponds		
EM8	EM8 Meadow Mixture for Wetlands (Ermorsgate or acceptable equivalent)	
Species	Seeding Rate (g/m ²)	10
Wild Flowers	%	20
<i>Achillea millefolium</i> (Yarrow)	0.60	
<i>Agrimonia eupatoria</i> (Agrimony)	3.60	
<i>Centaurea nigra</i> (Common Knapweed)	1.00	
<i>Filipendula ulmaria</i> (Meadowsweet)	2.00	
<i>Galium verum</i> (Lady's Bedstraw)	1.00	
<i>Geum melle</i> (Water Aven)	0.20	
<i>Lathyrus pratensis</i> (Meadow Vetchling)	0.50	
<i>Leontodon hispidus</i> (Rough Hawkbit)	1.20	
<i>Leucanthemum vulgare</i> (Oxeye Daisy)	1.20	
<i>Lotus corniculatus</i> (Greater Bird-foot Trefoil)	0.40	
<i>Lotus pedunculatus</i> (Greater Bird-foot Trefoil)	3.20	
<i>Primula veris</i> (Cowslip)	0.20	
<i>Prunella vulgaris</i> (Selfheal)	0.10	
<i>Ranunculus acris</i> (Meadow Buttercup)	0.40	
<i>Ranunculus minor</i> (Yellow Rattle)	1.40	
<i>Rumex acetosa</i> (Common Sorrel)	1.20	
<i>Sanguisorba officinalis</i> (Great Burnet)	1.00	
<i>Silene fls-cuculi</i> (Ragged Robin)	0.30	
<i>Succisa pratensis</i> (Devil's-bit Scabious)	0.10	
<i>Vicia cracca</i> (Tufted Vetch)	0.40	
Grasses		80
<i>Agrostis capillaris</i> (Common Bent)	4.00	
<i>Anthriscum odoratum</i> (Sweet Vernal-grass)	4.00	
<i>Carex diutius ssp.</i> divisa (Grey Sedge)	1.60	
<i>Cynosurus cristatus</i> (Crested Dogstail)	34.4	
<i>Deschampsia cespitosa</i> (Tufted Hair-grass)	1.60	
<i>Festuca rubra</i> (Red Fescue)	20.0	
<i>Hordeum secalinum</i> (Meadow Barley)	4.00	
<i>Poa trivialis</i> (Rough-stalked Meadow-grass)	8.00	
<i>Schedonorus arundinaceus</i> (Tall Fescue)	2.40	

Grass Seeding		
EM10 Tussock Meadow Mixture (Ermorsgate or acceptable equivalent)	EM10	
Species	Seeding Rate (g/m ²)	10

EW1 Woodland Mixture (Ermorsgate or acceptable equivalent)		
Wild Flowers	%	20
<i>Achillea millefolium</i> (Yarrow)	0.8	
<i>Agrimonia eupatoria</i> (Agrimony)	0.4	
<i>Potentilla vulgaris</i> (Selfheal)	0.1	
<i>Arctium minus</i> (Lemon Burdock)	1.4	
<i>Centaurea nigra</i> (Common Knapweed)	1.0	
<i>Centaurea scabiosa</i> (Greater Knapweed)	0.8	
<i>Chenopodium temulum</i> (Rough Chenill)	0.5	
<i>Daucus carota</i> (Wild Carrot)	1.0	
<i>Dipsacus filiform</i> (Wild Teasel)	1.6	
<i>Filipendula ulmaria</i> (Meadowsweet)	0.8	
<i>Galium album</i> (Hedge Bedstraw)	1.8	
<i>Geranium robertianum</i> (Field Scabious)	0.8	
<i>Knapweed avensis</i> (Field Scabious)	1.6	
<i>Potentilla sanguisorba</i> (Sailed Burnet)	1.8	
<i>Prunella vulgaris</i> (Selfheal)	1.0	
<i>Silene dioica</i> (Red Campion)	0.4	
<i>Vicia cracca</i> (Tufted Vetch)	0.4	
Tussock grasses		80
<i>Allopecurus pratensis</i> (Meadow Foxtail)	20.0	
<i>Cynosurus cristatus</i> (Crested Dogstail)	40.0	
<i>Dactylis glomerata</i> (Cocksfoot)	16.0	
<i>Festuca rubra ssp. rubra</i> (Strong-creeping Red Fescue)	12.0	
<i>Horcus lanatus</i> (Yorkshire Fog)	8.0	
<i>Lotium perenne</i> (Perennial Ryegrass)	6.4	
<i>Lyr pratensis</i> (Smooth-stalked Meadow-grass)	4.0	
<i>Schedonorus arundinaceus</i> (Tall Fescue)	9.6	

Woodland Planting (incl. bat hop over planting) - Typical species							
Species (Latin) (Common name)	Height (cm)	Age	Root / Container / Cell	%	Notes	Group Size range (Number of plants)	Species Density (Plants/m²)
Trees - Feathers - 20%							
Quercus robur (Pendunculate Oak)	80 - 100	2x	B	20	-	3-7	0.25
Fagus sylvatica (Beech)	80 - 100	2x	B	8	-	3-7	0.25
Tilia x europaea (Lime)	80 - 100	2x	B	3	-	3-7	0.25
Trees - Whips - 30%							
Betula pendula (Birch)	60 - 80	1+2	B	30	-	3-7	0.25
Fagus sylvatica (Beech)	60 - 80	1+2	B	12	-	3-7	0.25
Tilia x europaea (Lime)	60 - 80	1+2	B	6	-	3-7	0.25
Trees - Transplants - 25%							
Quercus robur (Pendunculate Oak)	60 - 80	1+1	B	11	-	5-9	0.25
Fagus sylvatica (Beech)	60 - 80	1+1	B	9	-	5-9	0.25
Tilia x europaea (Lime)	60 - 80	1+1	B	5	-	8-12	0.25
Shrubs - 25%							
Crataegus monogyna (Hawthorn)	40-60	1+1	B	25	-	3-5	1
Ligustrum vulgare (Privet)	40-60	1+1	B	2	-	3-5	1
Rubus fruticosus (Blackberry)	40-60	1+1	B	3	-	3-5	1
Rosa canina (Field Rose)	40-60	1+1	B	2	-	3-5	1
Corylus avellana (Hazel)	40-60	1+1	B	4	-	3-5	1
Cornus sanguinea (Dogwood)	40-60	1+1	B	3	-	3-5	1
Viburnum opulus (Guelder Rose)	40-60	1+1	B	2	-	3-5	1
Prunus spinosa (Blackthorn)	40-60	1+1	B	5	-	3-5	1

LANDSCAPE KEY

Detailed Phase 1 Boundary	
	Existing Landscape Features
	Public Right of Way
	Retained existing trees
	Other retained existing woody vegetation (incl. tree shrubs, hedgerows)
	Removed existing trees
	Retained existing woody vegetation (incl. tree shrubs, hedgerows)
	Retained if possible trees
	Retained if possible woody vegetation (incl. tree shrubs, hedgerows)
	Root Protection Area
	Enhancement of existing vegetation to Other Neutral Grassland (trees, woodlands, tree groups retained/enhanced as shown)
	Watercourse / Body
Proposed Engineering Features (Refer to Engineering Reports for details)	
	Canals
	Culverts
	Attenuation basin
	Existing lighting column related
	Proposed lighting column
	Culvert structure
	Bridge structure
Proposed landscape features	
	Grass seeding
	Grass swales and attenuation ponds
	Temporary seeding of embankments
	Woodland planting
	Lowland mixed deciduous woodland planting
	Hawthorn planting
	Bat Hop Over Areas
	Native Hedgerow
	Hibernian
	Ditches

Note: All hand copy drawings are to be checked against digital PDFs for consistency.

Species	Seeding Rate (g/m ²)	%
Wild Flowers		20