Project Management Initials: Designer: Designer Checked: Checker Approved: Approver Drawn By: Author ISO A1 594mm x 841mm

Native Tree Planting Schedule

Plant Name	Height	Girth	Height	Root	Description	Form	Quantity
Alnus glutinosa	3750 mm	14-16cm	350-400cm	RB	2 metre clear stem	Well balanced Crown	48
Amelanchier lamarkii (multi-stem)	2250 mm	Multi-stem	200-250cm	RB	<varies>	Well balanced Crown	7
Betula utilis jacquemontii	3750 mm	14-16cm	350-400cm	RB	2 metre clear stem	Well balanced Crown	7
Carpinus betulus	3750 mm	14-16cm	350-400cm	RB	2 metre clear stem	Well balanced Crown	22
Cornus florida	2750 mm	Multi-stem	250-300cm	RB	Multi-stem	Well balanced Crown	5
Corylus avellana	3750 mm	Multi-stem	350-400cm	RB	Multi-stem	Well balanced Crown	11
Magnolia stellata	2250 mm	Multi-stem	200-250cm	RB	Multi-stem	Well balanced Crown	6
Pinus sylvestris	2250 mm	14-16cm	200-250cm	RB	2 metre clear stem	Well balanced Crown	16
Sorbus aria	3750 mm	14-16cm	350-400cm	RB	2 metre clear stem	Well balanced Crown	31
Taxus baccata	3750 mm	14-16cm	350-400cm	RB	2 metre clear stem	Well balanced Crown	19
Tilia cordata	3750 mm	14-16cm	350-400cm	RB	2 metre clear stem	Well balanced Crown	15

Native Shrubs Planting Mix

Plant Name	Height	Height	Density	Percentage	Quantity
Betula nana	750 mm	60-90cm	3	0.15	1018
Buxus sempervirens	125 mm	10-15cm	2	0.1	453
Calluna vulgaris	125 mm	10-15cm	2	0.05	227
Cytisus scoparius	125 mm	10-15cm	2	0.1	453
Erica cinerea	125 mm	10-15cm	5	0.05	566
Erica vagans	125 mm	10-15cm	5	0.05	566
Fagus sylvatica	125 mm	10-15cm	3	0.1	679
Genista tinctoria	300 mm	20-40cm	4	0.1	905
Salix lapponum	150 mm	10-20cm	2	0.1	453
Salix repens	125 mm	10-15cm	2	0.05	227
Santolina chamaecyparissus	210 mm	30-40cm(D)	2	0.05	227
Viburnum lantana	500 mm	40-60cm	6	0.1	1358

· TOPSOIL TO DEPTH OF 450mm TO BE CULTIVATED PRIOR TO PLANTING.
· PLANTING: IN TRENCHES TO TAKE FULL SPREAD OF ROOTS. SET OUT PLANTS EVENLY.
· 50mm COMPACTED MEDIUM GRADE BARK MULCH.

Hedge Mix

Plant Name	Height	Height	Density	Percentage	Quantity
Corylus avellana	900 mm	80-100cm	2.000604	0.3	700
Cytisus scoparius	900 mm	80-100cm	2.000604	0.2	467
Ilex aquifolium (male only)	700 mm	60-80cm	2.000604	0.3	700
Populus alba (male only)	900 mm	80-100cm	2.000604	0.2	467

· TOPSOIL TO DEPTH OF 450mm TO BE CULTIVATED PRIOR TO PLANTING.
· PLANTING: IN TRENCHES TO TAKE FULL SPREAD OF ROOTS. SET OUT PLANTS EVENLY.
· 50mm COMPACTED MEDIUM GRADE BARK MULCH.

Native Wetland Wildflower and Grass Planting Mix — Area: 1232m²

Plant Name	Height	Height
Achillea ptarmica 'Nana Compacta'	125 mm	10-15cm(D)
Agrostis stolonifera	54 mm	10-15cm(D)
Alopecurus pratensis	417 mm	10-15cm(D)
Angelica sylvestris	313 mm	10-15cm(D)
Anthoxanthum odoratum	205 mm	10-15cm(D)
Carex pendula	117 mm	10-15cm(D)
Cynosurus cristatus	125 mm	10-15cm(D)
Deschampsia cespitosa	208 mm	10-15cm(D)
Eupatorium cannabinum	188 mm	10-15cm(D)
Festuca rubra 'Commutata'	13 mm	10-15cm(D)
Festuca rubra litoralis	63 mm	10-15cm(D)
Filipendula ulmaria	150 mm	10-15cm(D)
Galium mollugo	42 mm	10-15cm(D)
Galium verum	42 mm	10-15cm(D)
Geum rivale	100 mm	10-15cm(D)
Hypericum tetrapterum	125 mm	10-15cm(D)
Iris pseudacorus	125 mm	10-15cm(D)
Juncus effusus	94 mm	10-15cm(D)
Juncus inflexus	188 mm	10-15cm(D)
Lotus uliginosus	75 mm	10-15cm(D)
Lychnis flos-cuculi	175 mm	10-15cm(D)
Lycopus europaeus	205 mm	10-15cm(D)
Lythrum salicaria	375 mm	10-15cm(D)
Phleum pratense	205 mm	10-15cm(D)
Poa pratensis	78 mm	10-15cm(D)
Poa trivialis	13 mm	10-15cm(D)
Prunella vulgaris	75 mm	10-15cm(D)
Ranunculus acris	208 mm	10-15cm(D)
Scrophularia nodosa	250 mm	10-15cm(D)
Silene dioica	250 mm	10-15cm(D)
Succisa pratensis	125 mm	10-15cm(D)
Vicia cracca	125 mm	10-15cm(D)

Pollinator Wildflower Planting Mix — Area: 2005m²

Plant Name	Height	Height
Achillea millefolium	125 mm	10-15cm(D)
Agrimonia eupatoria	188 mm	10-15cm(D)
Agrostemma githago	417 mm	10-15cm(D)
Agrostis capillaris	179 mm	10-15cm(D)
Anthoxanthum odoratum	205 mm	10-15cm(D)
Anthyllis vulneraria	94 mm	10-15cm(D)
Borago officinalis	375 mm	10-15cm(D)
Centaurea cyanus	250 mm	10-15cm(D)
Centaurea nigra	150 mm	10-15cm(D)
Centaurea scabiosa	250 mm	10-15cm(D)
Cynosurus cristatus	125 mm	10-15cm(D)
Digitalis purpurea	250 mm	10-15cm(D)
Dipsacus fullonum	750 mm	10-15cm(D)
Echium vulgare	375 mm	10-15cm(D)
Festuca rubra 'Commutata'	13 mm	10-15cm(D)
Festuca rubra 'Rubra'	63 mm	10-15cm(D)
Festuca rubra litoralis	63 mm	10-15cm(D)
Geranium pratense	63 mm	10-15cm(D)
Helianthus annuus	625 mm	10-15cm(D)
Knautia arvensis	300 mm	10-15cm(D)
Leucanthemum vulgare	25 mm	10-15cm(D)
Lotus corniculatus	75 mm	10-15cm(D)
Lythrum salicaria	375 mm	10-15cm(D)
Malva moschata	208 mm	10-15cm(D)
Onobrychis viicifloia	125 mm	10-15cm(D)
Origanum vulgare	125 mm	10-15cm(D)
Papaver rhoeas	167 mm	10-15cm(D)
Rhinanthus minor	313 mm	10-15cm(D)
Salvia verbenaca	225 mm	10-15cm(D)
Scabiosa columbaria	125 mm	10-15cm(D)
Silene dioica 'Clifford Moor'	38 mm	10-15cm(D)
Trifolium pratense	62 mm	10-15cm(D)
Trifolium repens	62 mm	10-15cm(D)
Trisetum flavescens	125 mm	10-15cm(D)

INSTALLATION NOTES:
AQUATIC PLANTING NOTES:

1. MARGINAL AND EMERGENT PLANTS SHALL BE PLANTED WITHIN SUDS AREAS AND PLANTED WITHIN THE MARGIN OF THE YEAR ROUND MINIMUM WATER LEVEL

GRASS NOTES:

1. GRASS CUT HIGH FREQUENCY:
· FIRST CUT AFTER WINTER SPRING WHEN THE GRASS REACHES A HEIGHT OF 50-75mm TO A HEIGHT OF 25-40mm.
· SUBSEQUENT CUTS: THE AREAS SHALL BE CUT TO A HEIGHT BETWEEN 25-30mm AT LEAST 12 TIMES A YEAR DURING THE GROWING SEASON.
2. GRASS CUT LOW FREQUENCY:
· FIRST CUT AFTER WINTER SPRING WHEN THE GRASS REACHES A HEIGHT OF 100-150mm TO A HEIGHT OF 50-70mm.
· SUBSEQUENT CUTS: THE AREAS SHALL BE CUT TO A HEIGHT BETWEEN 80-100mm AT LEAST 3 TIMES A YEAR DURING THE GROWING SEASON.

Autumn Bulb Planting Mix

Plant Name	Density	Percentage	Quantity
Allium sphaerocephalon	10	0.2	2015
Colchicum autumnale 'Major'	5	0.2	1008
Cyclamen hederifolium	11	0.2	2216
Scilla autumnalis	5	0.2	1008
Sternbergia lutea	5	0.2	1008

Spring Bulb Planting Mix

Plant Name	Density	Percentage	Quantity
Allium ursinum	2	0.1	202
Crocus vernus	25	0.1	2518
Fritillaria meleagris	5	0.1	504
Galanthus nivalis	11	0.1	1109
Hyacinthoides non-scripta	5	0.1	504
Muscari neglectum	6	0.15	907
Narcissus obvallaris	5	0.1	504
Narcissus pseudonarcissus	5	0.1	504
Ornithogalum nutans	5	0.15	757

BULB TOP SIZE FOR NATURALISING IN PLANTING BED

PV Biosolar Understorey Planting

Plant Name	Height	Height	Density	Percentage	Quantity
Achillea millefolium	125 mm	10-15cm(D)	2	0.03	41
Achillea millefolium 'Red Beauty'	125 mm	10-15cm(D)	2	0.03	41
Achillea millefolium roseum 'Cerise Queen'	125 mm	10-15cm(D)	2	0.04	55
Anthyllis vulneraria	94 mm	10-15cm(D)	3	0.1	204
Centaurea cyanus	250 mm	10-15cm(D)	4	0.1	272
Echium vulgare	375 mm	10-15cm(D)	4	0.1	272
Galium verum	42 mm	10-15cm(D)	5	0.1	340
Iberis sempervirens	125 mm	10-15cm(D)	5	0.1	340
Lotus corniculatus	75 mm	10-15cm(D)	5	0.1	340
Prunella vulgaris	75 mm	10-15cm(D)	5	0.1	340
Sanguisorba minor	250 mm	10-15cm(D)	3	0.1	204
Silene latifolia	375 mm	10-15cm(D)	3	0.1	204
Trifolium pratense	62 mm	10-15cm(D)	11	0.1	748

SEMI-INTENSIVE GREEN ROOF WILDFLOWER PLANTING MIX — AREA: 1111m²

BAUDERGREEN FLORA 5 SEED MIX (URBAN), REFER TO SUPPLIERS INFORMATION AND WILDFLOWER PLANTING INSTRUCTIONS

WET WILDFLOWER PLANTING MIX — AREA: 420m²

EP1 POND EDGE MIXTURE, REFER TO SUPPLIERS INFORMATION AND WILDFLOWER PLANTING INSTRUCTIONS

INSTALLATION NOTES:
WILDFLOWERS SEEDS, PLUGS & BULBS NOTES

GUIDELINES: GUIDE TO THE CREATION OF WILDFLOWER MEADOWS BY THE ULSTER WILDLIFE TRUST

PROVENANCE: WILDFLOWERS STOCK FROM NATIVE PROVENANCE (NORTHERN IRELAND / IRELAND).

SUPPLIERS:
· CONTRACTORS TO SUBMIT PROPOSALS

WILDFLOWERS:
· MIXES AS PER PLANTING SCHEDULE.

SOIL PREPARATION:
REMOVE WEEDS BY:
· USING GLYPHOSATE TYPE HERBICIDE. CONTACT THE ENVIRONMENTAL PROTECTION SECTION OF THE ENVIRONMENT AND HERITAGE SERVICE (TEL. 02890251477) WHEN SPRAYING NEAR A WATERCOURSE. ROTAVATE THE SOIL TO ABOUT 20cm UNTIL ACHIEVING A FINE TILTH. WAIT 6 WEEKS UNTIL THE WEEDS GERMINATE AND SPAY AGAIN.
· OR STRIP OFF 50mm DEEP OF TOPSOIL AND ADD 100mm DEEP OF SUBSOIL.

SOWING:
· IT IS BEST TO CARRIED OUT IN AUTUMN, BUT IT IS POSSIBLE TO SOW IN SPRING. YELLOW RATTLE TO BE SOWN IN AUTUMN.
· SOWING RATE 4-5 g/m². USE SAND AT A RATIO OF 3:1 TO ENSURE THAT IT IS SOWN EVENLY.
· THE SEED SHOULD BE LIGHTLY RAKED OR CHAIN HARROWED INTO THE SOIL AND THEN ROLLED IN TO MAXIMIZE CONTACT WITH THE SOIL.

MAINTENANCE:
· CUTS: 1 No. CUT IN LATE AUGUST/SEPTEMBER EVERY YEAR AFTER THE WILDFLOWERS HAVE SET SEED, REMOVE THE HAY AND LIGHTLY SCARIFY THE MEADOW WITH A CHAIN BORROW TO CREATE GAPS IN THE VEGETATION INTO WHICH WILDFLOWER SEEDS COULD BECOME ESTABLISHED. IF THE SITE IS QUITE FERTILE AND DOMINATED BY GRASSES IT WILL NEED A SECOND CUT IN LATE MARCH/EARLY APRIL.
· IT IS IMPORTANT TO RAKE THE MEADOW THOROUGHLY AFTER MOWING TO REMOVE THE DENSE THATCH OF DEAD PLANT MATERIAL WHICH ACCUMULATES AROUND THE BASE OF GRASSES. IF THIS IS NOT REMOVED, IT WILL PREVENT THE SEEDS MAKING CONTACT WITH THE SOIL. RAKE AGAIN THE SOIL BETWEEN AUTUMN AND EARLY SPRING TO ENCOURAGE THE SELF SET PERENNIAL SEED TO GERMINATE.

· THE CONTRACTOR SHALL PROVIDE THE OVERSEEING ORGANISATION WITH CERTIFICATES FROM THE SEED SUPPLIER INDICATING GERMINATION RATE AND SPECIES PURITY TOGETHER WITH COPIES OF EACH DELIVERY NOTE AND IRISH PROVENANCE. EACH BAG LABEL MUST BE PASSED TO THE OVERSEEING ORGANISATION AS PROOF OF ORIGIN. THESE DOCUMENTS MUST BE IN THE POSSESSION OF OVERSEEING ORGANISATION PRIOR TO SEEDING COMMENCING.
· SOWING RATE: 4g/m2/.
NO HYDRAULIC SEEDING PERMITTED, UNLESS AGREED IN ADVANCE WITH THE OVERSEEING ORGANISATION. PLANT SHALL BE APPROPRIATE TO WEATHER AND GROUND CONDITIONS AND SHALL BE AGREED WITH THE OVERSEEING ORGANISATION IN ADVANCE. AUTUMN SOWING OF YELLOW RATTLE TO PROMOTE GERMINATION.

EXISTING TREES TO BE RETAINED AND PROTECTED IN ACCORDANCE WITH BS3998- REFER TO THE ARBORICULTURAL REPORT, LANDSCAPE GENERAL ARRANGEMENT LAYOUT FOR LOCATION OF RETAINED TREES.

ESTABLISHMENT NOTES:

Maintenance Tasks	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Generally					
Allow for 14 maintenance visits per year (10 during the growing season, 4 during the dormant season).	14x	14x	14x	14x	14x
All arisings to be removed from site.	14x	14x	14x	14x	14x
Keep records of works undertaken.	14x	14x	14x	14x	14x
Report significant damage, vandalism or unauthorised removal of plants and arisings from works carried out by others and agree reinstatement measures with the contract administrator.	14x	14x	14x	14x	14x
Replace all dead, dying or diseased trees and planting during each winter, to ensure that 100% of the specified quanitites are established by end Yr 5.	1x	1x	1x	1x	1x
No trees are to be pruned or removed beyond the works listed in this schedule.	1x	1x	1x	1x	1x
Tree Planting					
Check, adjust, replace stakes and ties as necessary. (Remove stakes during Yr 3 if appropriate).	4x	4x	4x	4x	4x
Check all rabbit guards and repair/replace as necessary; remove at Yr 5.	4x	4x	4x	4x	4x
Prune dead and damaged wood as necessary, to give a clear canopy height of 2m above ground level and to allow each tree to achieve full stature.	1x	1x	1x	1x	1x
Water and feed trees as necessary to maintain healthy growth	As required	As required	As required	As required	As required
Shrub planting and hedge planting					
Keep areas clear of weed growth by hand weeding and spot herbicide as appropriate from mid-April to late September.	4x	4x	4x	4x	4x
Check shelter/spiral guards and refirm/replace when required. Remove at end of Yr 5.	4x	4x	4x	4x	4x
Lightly trim as necessary to avoid conflict with grass areas on adjacent sides.	2x	2x	2x	2x	2x
Yr 5 onwards trim to 'A' shaped profile once per year (winter) both sides and top, to straight and true lines.	0	0	0	0	0
Lightly cultivate hedge and shrub bed, breaking up soil evenly.	1x	1x	1x	1x	1x
Water planted areas as necessary to maintain healthy growth.	As required	As required	As required	As required	As required
Grass Areas					
March - October; 10 cuts to 50mm.	10x				
November - Feburary; 4 cuts (1/month) to 50mm.	4x				
April; supply and spread spring/summer fertilizer (9-7-7) at 70g/m2.	1x	1x	1x	1x	1x
After Yr1, grass cutting with edge trim (where required). Frequency of grass cutting operations to be commensurate with location and visual importance of grass area; ap to 14 no. cuts per year to 50mm.	N/A	14x	14x	14x	14x
Shape grass edge as necessary with half moon spade.	As required	As required	As required	As required	As required
Application of fertilizer and selective weedkiller as appropriate.	As required	As required	As required	As required	As required
Reseeding of worn areas.	As required	As required	As required	As required	As required
Water grass as necessary to maintain healthy growth.	As required	As required	As required	As required	As required
Wildflower Areas					
July - late September. 40-60mm length.	3x	3x	3x	3x	3x
Maintain Wildflower grass in a healthy vigorous condition, free from disease, fungal growth, discoloration, scorch or wilt and reasonably free from moss, thatch and weeds in spring and late summer.	As required	As required	As required	As required	As required
Repair wildflower grass areas damaged by trampling, abrasion or scalping during mowing.	As required	As required	As required	As required	As required

FOR FURTHER INFORMATION REFER TO THE LANDSCAPE AND ECOLOGICAL MANAGEMENT REPORT

AECOM

Project

VIRTUS - Former Sipson Garden Centre

New Data Centre, Sipson Lane, Sipson, West Drayton

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Notes

Issue/Revision

Rev.	Date	Description	Dm/Chk/Apr
P1	14/10/26	STAGE 2 DESIGN	LM/AS/ES

Key Plan

Suitability Status

S2 - Suitable for Information

Project Number

60749800

Sheet Title

Softworks Schedule

Sheet Number

PGF-ACM-XX-XX-DR-LA-20601

Scale: As indicated@A1 **Rev:** P1