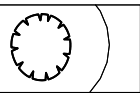


Plant schedule					
PROPOSED TREES					
Species	Symbol	Girth	Height	Specification	Qty.
Aesculus hippocastanum	Ah	12-14cmg	350-425cm	BR :Clear Stem 175-200	1
Alnus cordata	Aco		200-250cm	Multi Stem :3/5 brks	14
Amelanchier lamarckii	Alm		200-250cm	Multi Stem :3/5 brks	2
Betula nigra	Bn		200-250cm	Multi Stem :3/5 brks	11
Betula pendula	Bpm		200-250cm	Multi Stem :3/5 brks	10
Betula pendula	Bp	12-14cmg	350-425cm	RB :Selected Standard :Clear Stem 125-150	4
Betula pendula 'Fastigiata'	Bpf	12-14cmg	350-450cm	RB :Selected Standard :Clear Stem 150-200	6
Carpinus betulus	Cp	10-12cmg	300-350cm	RB :Selected Standard :Clear Stem 175-200	1
Carpinus betulus 'Trans Fontaine'	Cp F	14-16cmg	350-425cm	RB :Clear Stem 175-200	11
Corylus avellana	Cam		200-250cm	Multi Stem :3/5 brks	3
Corylus avellana	Ca	10-12cmg	300-350cm	RB :Selected Standard :Clear Stem 175-200	5
Fagus sylvatica	Fs	10-12cmg	350-425cm	BR :Clear Stem 175-200	2
Liquidambar styraciflua	Ls	18-20cmg	425-650cm	RB :Clear Stem min. 200	1
Malus tchonoskii	Mt	12-14cmg	300-425cm	BR :Clear Stem 175-200	3
Prunus avium 'Plena'	Pa 'P'	14-16cmg	350-425cm	RB :Clear Stem 175-200	4
Prunus sargenti 'Rancho'	PsRa	18-20cm	425-600cm	Extra Heavy Standard :Clear Stem min. 200cm	3
Prunus serrula	Ps	14-16cmg	350-425cm	RB :Clear Stem 175-200	4
Pyrus calleryana 'Chanticleer'	PoC	14-16cmg	350-425cm	RB :Clear Stem 175-200	13
Quercus robur	Qr	14-16cmg	350-425cm	RB :Clear Stem 175-200	1
Salix alba	Sa		200-250cm	Multi Stem :3/5 brks	2
Salix caprea	Sc		200-250cm	Multi Stem :3/5 brks	4
Sorbus aucuparia	Sa	18-20cm	425-600cm	RB :Extra Heavy Standard Standard :Clear Stem 200mm	3
Tilia euclora	Te	14-16cmg	350-425cm	RB :Clear Stem 175-200	3
Total :117					
PROPOSED SPECIMENS SHRUBS					
Species	Symbol	Height	Condition	Density	Qty.
Euonymus alatus	Ea	120-150cm	15L	Counted	8
Ilex crenata	lc	50cm	15-20L	Counted	14
Phormium 'Platt's Black'	PPb'	60-80cm	10L	Counted	5
Viburnum bodnantense 'Dawn'	VbD	120-150cm	15L	Counted	11
Total :38					
PROPOSED SHRUBS					
Species	Height	Condition	Density	Qty.	
Berberis thunbergii 'Atropurpurea Nana'	20-30cm	5L	5/m²	30	
Ceanothus thyrsiflorus 'Skyark'	30-40cm	5L	5/m²	24	
Choisya 'Aztec Pearl'	60-80cm	10L	3/m²	344	
Cornus alba 'Elegantissima'	40-60cm	3L	5/m²	15	
Cornus alba 'Kesselringii'	40-60cm	3L	5/m²	344	
Cornus alba 'Midwinter Fire'	40-60cm	3L	5/m²	827	
Cornus alba 'Siberica'	60-80cm	10L	3/m²	242	
Cornus sanguinea	40-60cm	5L	5/m²	53	
Cytisus burkwoodii	30-40cm	5L	5/m²	122	
Escallonia 'Donard Seedling'	60-80cm	10L	3/m²	27	
Euonymus fortunei 'Emerald Gaiety'	30-40cm	5L	5/m²	130	
Hebe 'Midnight Sky'	30-40cm	5L	5/m²	99	
Hebe rakienis	30-40cm	5L	7/m²	883	
Hydrangea paniculata	40-60cm	5L	5/m²	475	
Hydrangea quercifolia	40-60cm	5L	5/m²	336	
Hydrangea quercifolia	80-100cm	10L	3/m²	22	
Ilex aquifolium	40-60cm	C	5/m²	36	
Ligustrum ovalifolium	60-80cm	5L	4/m	287	
Lonicera nitida 'May Green'	30-40cm	3L	7/m²	1503	
Mahonia nitens 'Cabaret'	20-30cm	5L	5/m²	131	
Nepeta 'Six Hills Giant'	20-30cm	3L	7/m²	48	
Pachysandra terminalis 'Green Carpet'	20-30cm	3L	9/m²	850	
Perovskia a 'Blue Spire'	40-60cm	5L	5/m²	85	
Pittosporum tenuifolium 'Tom Thumb'	30-40cm	5L	5/m²	100	
Prunus laurocerasus 'Otto Luyken'	40-60cm	5L	5/m²	478	
Rosa 'Ballerina'	60-80cm	5L	5/m²	106	
Rosa 'Kithsgate'	60-80cm	5L	5/m²	246	
Rosa canina	60-80cm	BR	5/m²	23	
Rosmarinus officinalis 'Miss Jessopp's Upright'	20-30cm	2L	7/m²	238	
Salvia officinalis 'Purpurascens'	30-40cm	5L	5/m²	21	
Salvia x sylvestris 'mainacht'	20-30cm	3L	7/m²	159	
Sambucus nigra 'Black lace'	60-80cm	3L	5/m²	77	
Sarcococca hookeriana var. humilis	30-40cm	5L	5/m²	614	
Viburnum davidii	30-40cm	5L	5/m²	485	
Viburnum opulus	60-80cm	BR	5/m²	72	
Viburnum opulus 'Compactus'	60-80cm	3L	5/m²	162	
Vinca minor f. alba 'Gertrude Jekyll'	20-30cm	3L	9/m²	63	
Total :9757					
PROPOSED HEDGING					
Species	Height	Condition	Density	Qty.	
Ligustrum ovalifolium	60-80cm	5L	4/m	287	
Total :287					
PROPOSED HERBACEOUS					
Species	Spread	Condition	Density	Qty.	
Acanthus mollis	10L	3/m²	3/m²	16	
Achillea millefolium 'Cerise Queen'	3L	9/m²	3/m²	19	
Alchemilla mollis	3L	9/m²	3/m²	338	
Bergenia 'Bressingham Ruby'	3L	9/m²	9/m²	62	
Bergenia 'Bressingham White'	3L	9/m²	9/m²	42	
Brunnera macrophylla 'Jack Frost'	3L	9/m²	9/m²	156	
Geranium 'Johnsons blue'	3L	4/m²	3/m²	39	
Geranium 'Rozanne'	3L	9/m²	9/m²	66	
Geranium macrorrhizum spessart	3L	9/m²	9/m²	396	
Heuchera cylindrica 'Greenfinch'	3L	9/m²	9/m²	338	
Heuchera Palace Purple'	3L	9/m²	9/m²	78	
Liriope muscari 'Monroe White'	3L	7/m²	7/m²	153	
Liriope Muscari 'Royal Purple'	3L	7/m²	7/m²	212	
Luzula nivea	3L	9/m²	9/m²	859	
Pulmonaria angustifolia 'Munstead Blue'	3L	9/m²	9/m²	223	
Rodgersia aescutifolia	5L	5/m²	5/m²	205	
Rudbeckia fulgida sullivantii	3L	7/m²	7/m²	28	
Tiarella cordifolia	3L	7/m²	7/m²	342	
Verbena bonariensis	3L	4/m²	4/m²	28	
Total :3600					
PROPOSED CLIMBERS					
Species	Symbol	Height	Condition	Qty.	
Clematis amandii	Ca	100-150cm	15-20L	7	
Clematis montana 'Marjorie'	CmM	80-100cm	10L	5	
Parthenocissus tricuspidata	Pt	100-150cm	15-20L	6	
Total :18					
BULBS AND HERBACEOUS					
Species	Symbol	Qty.			
Allium hollandicum 'Purple Sensation'	AH PS	29			
Echinacea purpurea 'Magnus'	Ec pm	81			
Echinacea purpurea 'White Swan'	Ep WS	9			
Matteuccia struthiopteris	M st	36			
Total :155					
PROPOSED FERNS					
Species	Specification	Condition	Density	Qty.	
Dryopteris felix-mas	5L	5/m²	Counted	59	
Matteuccia struthiopteris	5L	5/m²	Counted	36	
Total :95					

SOFT LANDSCAPE

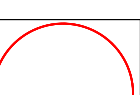
EXISTING



Existing Trees to be Retained
To be protected in accordance with BS 5837:2012 '*Trees in relation to Design, Demolition and Construction*'
Note: Refer to Technical Arboriculture arboricultural survey & report for details



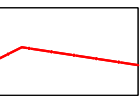
Existing Vegetation to be retained
Existing vegetation to be cut back away from roads/pathways as appropriate to allow clear routes through the site
Note: Refer to Technical Arboriculture arboricultural survey & report for details



Existing Trees/Vegetation to be Removed
Trees/vegetation in conflict with proposed development, based on current site layout. Note: Refer to Technical Arboriculture arboricultural survey & report for details

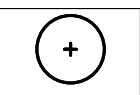
Note: No dig construction to be carried out in any location where construction is within RPA of existing trees. Refer to Arboriculturalist's drawings & reports for further details

Misc



Site boundary

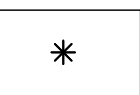
PROPOSED



Proposed Tree Planting
Size/Spec: Refer to plant schedule for details
Note: Final location of trees to be determined with services alignment. All trees are to be tagged by landscape architect prior to delivery



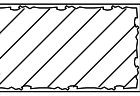
Proposed Specimen Shrub Planting
Product: Container grown stock
Size/Spec: Refer to plant schedule for details



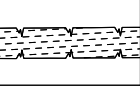
Proposed Climber Planting
Product: Container grown plant stock
Size/Spec: refer to plant schedule for details



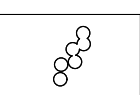
Proposed Shrub Planting
Product: Container grown plant stock
Size/Spec: Refer to plant schedule for details
Note: All batches of species are to be labelled prior to delivery



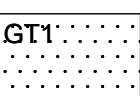
Proposed Native Shrub Planting
Product: Field grown plant stock
Size/Spec: Refer to plant schedule for details
Note: Species planted in an even but natural distribution throughout the planting area



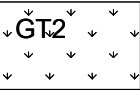
Proposed Hedge Planting
Product: Field grown plant stock
Size/Spec: Refer to plant schedule for details
Note: All batches of species are to be labelled prior to delivery



Proposed Bulb and Herbaceous Planting
Product: Container grown plant stock
Size/Spec: Refer to plant schedule for details
Note: All batches of species are to be labelled prior to delivery



Grass Type 1: Amenity Grass
GT1 - RB Medallion Turf
GT1a - A4 amenity grass mix
Supplier: Rolawn or Germinal/similar approved
Size/Spec: Refer to plant schedule for details



Grass Type 2: Flowering Grassland
GT2 - Mowed on a Grassland regime
Product: EM2 meadow mixture
Supplier: Emorsgate or similar approved
Size/Spec: Refer to plant schedule for details



Grass Type 3: Grassland
GT3 - Mowed on a grassland regime
Product: EG8 Meadow grass mixture for wet soils
Supplier: Emorsgate or similar approved
Size/Spec: Refer to plant schedule for details

PROPOSED GRASSES				
Species	Specification	Condition	Density	Qty.
Calamagrostis x acutifolia 'Karl Foerster'	5L	5/m²	58	
Carex divisa	3L	7/m²	320	
Carex testacea	3L	5/m²	49	
Deschampsia cespitosa goldtau	3L	5/m²	180	
Miscanthus sinensis 'Flamingo'	3L	5/m²	58	
Stipa tenuissima	5L	5/m²	795	
Total :1480				

NATIVE SHRUB PLANTING MIX				
Species	Specification	Density	Percentage Contribution	Qty.
Cornus sanguinea	Branched :1+2 :3 brks	3/m²	15%	555
Crataegus monogyna	1+1 :Transplant	3/m²	20%	741
Euonymus europaeus	1+2 :Branched :5 brks	3/m²	8%	297
Rosa arvensis	Branched :1+1 :2 brks	3/m²	5%	187
Rosa canina	1+1 :Branched :3 brks	3/m²	5%	187
Salix caprea	Branched :3 brks	3/m²	15%	555
Salix lanata	Bushy :BR :2/3 brks	3/m²	5%	187
Sambucus nigra	Branched :3 brks	3/m²	7%	261
Viburnum lantana	Branched :3 brks :1+2	3/m²	5%	187
Viburnum opulus	1+2 :3 brks :Branched	3/m²	15%	555
Total :3712				

OUTLINE SOFT SPECIFICATION NOTES

Nursery Stock and Selection

All trees and planting are to be selected and tagged by the landscape architect prior to any stock being delivered to site. All planting should comply with the requirements specified in BS 3936:1992 'Nursery Stock' (Part One). All nursery stock and trees are to be free of pest and diseases prior to being delivered to site. All delivered stock is to be inspected by the landscape architect prior to any planting being carried out.

The Landscape architect reserves the right to reject trees and nursery stock that do not meet specifications as set out in the requirements and guidelines in BS 3936:1992 or in accordance with the landscape architects drawings. If a particular defect or substandard element can be corrected easily, appropriate remedies shall be applied and agreed with the landscape architect. If destructive inspection of a root ball is to be carried out, agreement should be in place prior as to the time and place of inspection. Inspection of shrub roots in containers or rootball can be carried out on site if required.

Tree Handling

It is recommended that companies that do not have experience with handling large trees or the required equipment to do so seek advice from the landscape architect or tree supplier. Furthermore, specialist hauliers are to be used who will have the correct lifting equipment to deal with unloading large trees. The landscape contractor must follow the industry guidance method for handling trees. Below are recommended industry standards.

Dormant trees sizes of 12-16cmg

These can be lifted and unloaded using a root hook and hoist. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading maintaining the lifting weight on the root hooks.

Dormant trees sizes of 18-20cmg - 25-30cmg

These can be lifted and unloaded using a 3 tonne sling in combination with a chain and root hooks. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading.

Tree Planting

The tree supplier is to be approved by landscape architect prior to any ordering of stock. All trees are to be planted in the first available planting season after construction as root balled stock unless otherwise specified and agreed with the client. All tree pits are to be excavated 24 hours prior to delivery to reduce the time the rootball is out of the ground. All tree pits are to be excavated under favourable weather conditions to avoid deterioration of the soil structure and glazing. All excavations are to be carried out using a toothed bucket ensuring tree pit walls are not glazed, the walls of the tree pit can also be loosened with hand held tools. Tree pit dimensions are subject to soil conditions, soil report provided by agronomist and rootball size. Tree pits can never be excavated too wide in an unrestricted space (open ground), however they can be too deep. All trees are to be planted at the correct height which is the same depth as the tree was growing on the nursery. The root collar must remain visible. Tree pit sizes are to be agreed with landscape architect prior to excavations. All tree pits are to be inspected by the landscape architect prior to planting. All tree pits are to have suitable irrigation pipe and end cap and aeration tubes if required (aeration tubes tend to be required for trees planted in a hard landscape environment). They are only required for the first two years after which they are superfluous. All irrigation pipes are to be placed as high as possible not at the base of the rootball. The tree would also benefit from an earth reservoir around the rootball on the surface to aid watering. The reservoir is best backfilled with bark mulch to avoid soil glazing on the surface.

Note: Trees may sink after planting due to soil settlement. With sandy soils generally there will be a settlement of 10% and clay soils 20%, this will need to be considered by the landscape contractor when planting and therefore the tree may need to be planted slightly higher to accommodate soil settlement.

Note: Never excavate deeper than the highest water table to ensure organic matter does not come in contact with groundwater resulting in anaerobic digestion within the soil. All hessian and wire supports around the rootball are to remain in place when planting (in some case it may be required to loosen the hessian and wire). The hessian will quickly decompose. The wire will oxidize and also disappear in the soil eventually.

Trees planted within hard landscape areas are to have tree grilles and guards where specified. Subterranean cellular product is to be used to ensure the tree has a minimum of 9m3 growing area. Type and manufacture is to be agreed with the client and landscape architect prior to installation. The landscape architect is to inspect all tree pits prior to planting.

Trees are to be supported either by high anchoring, low anchoring or underground anchoring systems. The type of anchoring system is to be agreed with the landscape architect and detailed within the specification of works. For trees that are <10-12cmg use 1no untreated softwood stake at min 10cm diameter driven into the ground at least 1m depth (30cm of which must be in undisturbed ground), the stake is to be placed on the side of the prevailing wind. Trees >10-12cmg use 2no untreated softwood stakes at min 10cm diameter driven into the ground at least 1m depth with horizontal bracing bar. Trees >25-30cmg use 3no stakes in a triangle around the tree (1.4m above ground level) with horizontal bracing bars, tree bands are to be secured to the posts with galvanised nails.

Underground anchoring systems are to be used for large compact rootballs or trees within hard landscape with tree grilles to BS 4043: 1989 'Recommendations for Transplanting Root-Balled Trees'. The type of anchoring system is to be agreed with the landscape architect. Biodegradable anchoring straps are to be used to ensure the straps do not grow into the trunk. Note: There are benefits to using low level anchoring as field trials have demonstrated that the tree becomes independent in the ground quicker as a result of the wind rocking the tree that encourages root ground. However, this method is not recommended in exposed conditions or coastal locations due to a greater risk of the trunk breaking.

Ties and stakes are to be checked and adjusted every six months or after periods of strong wind and rain.

All topsoil is to conform to BS 3882:2015 or similar approved by an agronomist. The tree pit shall be backfilled with previously prepared topsoil excavated from the pit and additional topsoil as required. All backfilled material is to include an organic slow release fertilizer to ensure there is no adverse affect on soil organisms (Vitag Q4HN) or similar approved at a ratio of 10 -7.5 -10.2 + TE. The second application to be made 10-16 weeks after planting depending on soil type and weather conditions.

Tree pit root barrier are to be installed to all trees within 3m of any underground service routes or within 2.0m of kerb lines & hard surfaces & building foundations. Type of root barrier material is to be agreed with the landscape architect. The landscape contractor is to confirm locations of all services prior to implementation of trees. Prior to installation NUUG specification and requirements are to be referred too. All trees to be planted in accordance with BS 8545:2014 '*Trees: from nursery to independence in the landscape.*'

Guidance for Tree Pit Sizes within Soft Landscape Areas

Final tree pit size will vary dependent on size of rootball, tree stock and soil type. Below are general guidance sizes only. The landscape contractor is to speak to the grower to obtain exact sizes prior to delivery. Landscape Architect to inspect tree pits prior to planting.

Tree pit size guidelines:		
Tree size	Rootball Size	Tree pit size (length, width, depth)
10-12 cmg	40x40cm	70x70x60cm
12-14 cmg	50x50cm	80x80x60cm