

PLANNING NOTES (SOFT LANDSCAPE):

1. SOLS: Subgrade / subsoil to be prepared in accordance with BS 8601:2013 and BS 4428:1989 and scarified or ripped to 300mm depth (excluding root protection areas) and retained trees refer to Tree Protection Plan prior to spreading topsoil to alleviate compaction and promote drainage. Imported and as saved topsoil to be in accordance with BS 3882:2015 Multipurpose Grade with minimum soil organic matter contents 1% greater than the minima value (or as approved). Imported topsoil (and 'as saved' if requested) is to be laboratory tested to BS 3882:2015 and ameliorated as required to meet the required characteristics as detailed within Table 1 of BS 3882:2015 specification. Wildflower areas to be unimproved topsoil or low fertility topsoil to BS 3882:2015. Grass areas to be a minimum depth of 150mm. Shrub & hedge beds 40mm growth. Any weed / grass growth to be sprayed out with appropriate herbicide at least 10 days prior to cultivation. All areas to be cultivated to a minimum depth of 150mm removing weeds and rubbish / stones greater than 20mm in size. Incorporate proprietary non peat compost to BS1 PAS 100 to 50mm depth evenly worked into soil during cultivation.

N.B Proposed services (electric, water, gas etc) in landscape areas should be installed as a minimum below the required topsoil depths and clearly identified in accordance with service / utility requirements.

2. BUILDING FOUNDATION DESIGN: All tree and shrub planting proposals are to be referred to by the structural engineer during building foundation design.

3. PLANT STOCK: Unless agreed otherwise all trees and shrubs are to be of UK provenance where plants have been propagated and/or grown on for a minimum of 5 years in the UK for trees and 2 years for shrubs. All plants are to comply with the requirements of all current British Standards including BS3098 Specifications for Nursery Stock and BS8545 Trees from nursery to independence in the landscape and be supplied in accordance with the Plant Schedule. Should planting be required outside of the planting season (November-March) any bare root or rootballed stock specified is to be replaced with containerised stock to an appropriate or similar specification to the approval of the landscape architect prior to ordering.

4. EXISTING TREES: Where trees are to be retained they should be subject to a full arboricultural inspection to assess condition and safety. Retained trees shall be protected from damage by erection of 2.3m weldmesh fencing on a scaffold framework in accordance BS 5837:2012 Figure 2. These barriers shall be maintained in position and in good condition until works are complete. Fencing to be located in accordance with Table D.1 at a radius of 12 times the stem diameter (single stem trees) or based on the combined stem diameter for multi-stemmed trees (trees with more than one stem arising below 1.5m above ground level) refer to Clause 4.6. Further precautions are to be taken as detailed within BS 5837:2012 6.2.4.

5. TREE SURGERY / REMOVAL: Tree surgery and tree removal to be carried out by an Arboricultural Association approved Tree surgeon in accordance with BS 3998:2010. Arisings to be removed to a licensed tip.

6. TREE PLANTING: All trees to be in accordance with BS 3936, BS8545 and The National Plant Specification - 'Rootballed Trees' recommendations. Trees to be planted in accordance with BS 4428:1989, double staked (10-12cm - 14-16cm girth trees) and tied with webbing loops in prepared pits. Tree pits in open field / un-compacted ground conditions or shrub beds to be 1000mm x 1000mm (at least 75mm greater than that of the root system) with pit depth to be based on the planting depth of the tree (distance from root flare to underside of rootball) in accordance with BS 8545:2012. Topsoils and subsoils to be excavated and stored separately for reuse. Tree pit to be backfilled with stored subsoil and topsoil at depths to replicate the existing soil horizons. Topsoil to be mixed enriched with 40L of peat free tree planting compost. Root balls to be enclosed by Root Flare Metro or similar irrigation pipe. Well water after planting. The base of trees to be planted in grass areas are to be covered with 75mm amenity grade bark mulch such as Melcourt 'Amenity' Bark Mulch (or similar approved by the landscape architect) to 1.0 metre diameter and kept weed free.

Where trees are to be planted in heavily compacted ground, tree pits are to be excavated to achieve the an uncompacted growing volume with pits being approximately 2.5m x 2.5m backfilled with excavated subsoil and topsoil (as described above) mixed with 160L of peat free tree planting compost.

Generally all trees are to be planted as shown ensuring a minimum of 5 metres from buildings and 3 metres from drainage or services. In locations close to footpaths and roadways linear root barriers Greenblue Urban, ReRoot or similar are to be installed in accordance with manufacturers instructions. Where proposed tree locations conflict with services, trees are to be relocated in accordance with the appropriate utilities guidance notes subject to client / local authority approval. Proprietary root barrier Greenblue Urban, ReRoot or similar to be installed in accordance with manufacturers instructions where relocation is not considered appropriate.

7. SHRUB & HERBACEOUS PLANTING: plants to be in accordance with BS 3936 and handled in accordance with NPS 'Handling & Establishment' guidelines and planted in accordance with BS 4428:1989. Nursery stock supplier to be approved by the Landscape Architect. All shrubs to have a minimum of three breaks, except Hedera with a minimum of two. Well water plants immediately after planting and prior to spreading of mulch. Planting areas to be covered with 75mm depth amenity grade bark mulch such as Melcourt 'Ornamental Bark Mulch' (or similar approved by the landscape architect) and kept weed free.

8. NATIVE SHRUB PLANTING: plants to be in accordance with BS 3936 and planted in accordance with BS 4428:1989. Transplants to be planted at 1 metre centres (or as scheduled) in random groupings of 3-5 and 7-10 shrub species depending on numbers of plants. Transplants to be root dipped with Algimure prior to planting. Planted areas to be kept weed free and protected from rabbits, with rabbit fence and / or individual mesh tree guards securely fixed to timber stakes).

9. WILDFLOWER SEEDING: grass areas to be seeded in accordance with BS 4428:1989 during March, April or September. Unimproved or low fertility topsoil to be imported, cultivated and leveled to remove all minor hollows or ridges as required with any debris or stones greater than 20mm diameter removed to provide a fine weed free tilth. Do not apply fertiliser. Weeds to be eradicated by herbicide or repeated cultivation prior to sowing. Lightly rake areas after sowing and keep well watered. Areas to be kept free from unwanted plants and mown every 6 - 8 weeks during establishment year removing arisings. In subsequent years cut in early spring and autumn after setting seed (in accordance with manufacturers recommendations) removing arisings. Seed mixes to be supplied by Emsgate Seeds and include the following sown in accordance with suppliers recommendations.

EH1 'Hedgerow mix' to woodland edges (sown at 4g/m²).
EM10 'Tussock Mixture' (sown at 4g/m²).
EW1 'Woodland Mixture' to shrub planting areas (sown at 4g/m²).

10. MAINTENANCE: To be carried out at approximately monthly intervals during the defoliation / recitation period to include the following:

- Eradicate weeds by hand or appropriate chemical means.
- Cut out dead or / and damaged stock or branches, prune as required.
- Ensure all shrubs and trees are firmed in, securely staked and tied with guards where applicable.
- Collect litter, sweep and tidy site.
- Apply suitable non-residual herbicides, pesticides and water as required.
- Carry out mowing to grass areas when attained 100mm, cut to 35mm (50mm for shaded areas) approximately 2 week intervals during the growing season.
- Carry out mowing to wildflower areas as per Emsgate Seeds Ltd aftercare First year & Established sward guidance (3-3 cuts a year).
- At final visit apply granular fertiliser to all planted areas and top up bark mulch depth to 75mm.

11. WATERING: all plant material (including turf) to be watered in dry periods until established during April through to September with a fine rose until the water penetrates the topsoil to at least 5cm depth and achieves field capacity. Frequency of watering regime to be determined by weather conditions, soil conditions and underlying geology, all plant beds to be watered to ensure soil is consistently moist to promote successful establishment. As a guide only it is suggested that during hot, dry periods, plants are to be watered every six to ten days. For individual trees it is suggested that 16 watering visits per year are carried out commencing late March (prior to budburst) and utilising a minimum of 50 litres of water per tree. Soil probe to be used to determine soil saturation to full depth of root ball.

LEGEND: SOFT LANDSCAPING

- GROUND COVER: deciduous and evergreen shrub ground cover planting with specimen shrubs.
- EVERGREEN HEDGE: evergreen shrub hedge as detailed.
- SPECIMEN SHRUBS: specimen shrub planting as detailed.
- WILDFLOWER MEADOW AREAS: to be seeded with Emsgate ECO wildflower seed mix to open areas and EW1 to the woodland edge.
- NATIVE SHRUB PLANTING: native species shrub planting mix at 1m centres seeded with Emsgate EW1.
- ORNAMENTAL GRAVEL: pea gravel from local source; 50-75mm minimum depth; refer to notes.
- TREE PLANTING: standard tree planting with canopy spread illustrated at 25 years growth.
- EXISTING TREES: to be retained in accordance with BS 5837 'Trees in relation to Construction' 2012.
- TREES TO BE REMOVED

Plant Schedule

Trees	No.	Species Name	Specification	Girth	Height	Density
2	Betula pendula	3x Extra Heavy Standard 'Clear Stem	175-200.5 bks :B8 :PG 11	14-16cm	400-450cm	Counted
5	Carpinus betulus	3x Extra Heavy Standard 'Clear Stem	175-200.5 bks :B8 :PG 11	14-16cm	400-450cm	Counted
1	Sorbus aria	3x Extra Heavy Standard 'Clear Stem	175-200.5 bks :B8 :PG 11	14-16cm	400-450cm	Counted

Hedging	No.	Species Name	Specification	Girth	Diameter	Height	Pot Size	Density
498	Escallonia rubra macrantha (*)	Bushy	:4 bks :C :PG 9		40-60cm	3L		0.45C/m Triple Staggered at 0.35m offset

Shrubs	No.	Species Name	Specification	Diameter	Height	Pot Size	Density
1	Amelanchier lamarckii (*)	Branches	:6 bks :C :PG 1		80-100cm	10L	Counted
32	Brachyglottis 'Sunshine'	Branches	:4 bks :C :PG 8		30-40cm	3L	3/m ²
46	Ceanothus 'Blue Mound'	Branches	:3 bks :C :PG 8		30-40cm	3L	3/m ²
59	Cornus sanguinea	+1:1 Transplant	:Branches :2 bks :B		40-60cm	1C/1	
59	Corylus avellana	+1:2 Transplant	:Branches :3 bks :B		60-80cm	1C/1	
59	Crataegus monogyna	+1:1 Transplant	:B		60-80cm	1C/1	
20	Euonymus europaeus	+1:2 Transplant	:Branches :5 bks :B		60-80cm	1C/1	
38	Hebe 'Mrs Winder'	Bushy	:5 bks :C :PG 9		30-40cm	3L	3/m ²
51	Hebe rakaiensis	Bushy	:5 bks :C :PG 9		30-40cm	3L	3/m ²
49	Hedera helix (*)	Several shoots	:3 bks :C :PG 11		40-60cm	2L	5/m ²
38	Hypericum 'Hidcote'	Bushy	:5 bks :C :PG 8		30-40cm	3L	3/m ²
59	Ilex aquifolium	Leaves With Lateral			40-60cm	3L	1C/1
22	Lavandula angustifolia 'Hidcote'	Bushy	:9 bks :C :PG 10		30-40cm	7.5L	2/m ²
39	Ligustrum vulgare (*)	0/2 Cutting	:Branches :3 bks :B		60-80cm	1C/1	
65	Lonicera pileata	Bushy	:2 bks :C :PG 2		30-40cm	3L	3/m ²
35	Mahonia aquifolium 'Apollo'	Branches	:2 bks :C :PG 8		20-30cm	3L	4/m ²
36	Prunus laurocerasus 'Otto Luyken'	Bushy	:5 bks :C :PG 8		40-60cm	5-7.5L	3/m ²
20	Rosa canina (*)	+1:1 Transplant	:Branches :3 bks :B		40-60cm	1C/1	
39	Sambucus nigra	+1:1 Transplant	:Branches :3 bks :B		60-80cm	1C/1	
39	Viburnum lantana	+1:2 Transplant	:Branches :3 bks :B		60-80cm	1C/1	
39	Viburnum opulus	+1:2 Transplant	:Branches :3 bks :B		60-80cm	1C/1	
28	Viburnum tinus 'Eve Price' (*)	Bushy	:5 bks :C :PG 1		30-40cm	5L	2/m ²

21 No. Cornus sanguinea 15%

21 No. Corylus avellana 15%

21 No. Crataegus monogyna 15%

7 No. Euonymus europaeus 5%

14 No. Ilex aquifolium 3L 10%

14 No. Ligustrum vulgare (*) 10%

7 No. Rosa canina (*) 5%

7 No. Sambucus nigra 5%

25 No. Viburnum lantana 10%

25 No. Viburnum opulus 10%

49 No. Hedera helix (*) 2L

5 No. Carpinus betulus 14-16cm

1 No. Amelanchier lamarckii (*) 10L

38 No. Hebe 'Mrs Winder' 3L

22 No. Lavandula angustifolia 'Hidcote' 7.5L

21 No. Hebe rakaiensis 3L

35 No. Mahonia aquifolium 'Apollo' 3L

36 No. Prunus laurocerasus 'Otto Luyken' 5-7.5L

1 No. Sorbus aria 14-16cm

2 No. Betula pendula 14-16cm

46 No. Ceanothus 'Blue Mound' 3L

32 No. Brachyglottis 'Sunshine' 3L

28 No. Viburnum tinus 'Eve Price' (*) 5L

156 No. Escallonia rubra macrantha (*) 3L

218 No. Escallonia rubra macrantha (*) 3L

40 No. Lonicera pileata 3L

38 No. Hypericum 'Hidcote' 3L

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