

SPECIFICATION NOTES

GENERAL

- Proposals to be read in conjunction with Architect's and Engineers Drawings;
- All landscape operations to be in accordance with BS 8545: 2014, BS4428: 1989 & BS 3936: 1992 and all amendments to date. Plant material to conform with the National Plant Specification;
- All stock (other than container grown) shall be planted between November 30th and 28th February. Planting operations shall be carried out in suitable open weather and all plants re-irrigated if frost during the contract. No planting shall take place in dry, hot and sunny weather or indeed if frost and snow are present, or in cold east winds, regardless of the stock specified;
- Any Plant material planted outside the recognised planting season (Nov-Feb), to be containerised stock and supplied at the sizes specified;
- Plant handling and planting operations to be in accordance with HTA 'Handling and Establishing Landscape Plants parts 1 - III';
- All planting to be maintained and guaranteed for 12 months to include watering, weeding, litter picking, pest & disease control;
- The landscape contractor is to take all safety precautions to prevent any injury to any persons. The landscape contractor shall comply with the requirements of the Health and Safety at Work Act 1974 and current Construction, Design and Management Regulations.

SOIL AND MULCH

- Existing topsoil to be stripped and stored on site in heaps not exceeding 2m height and kept weed free;
- Any compacted subsoil to be broken up to allow free drainage and to enable topsoil to key into surface;
- Any imported topsoil to be to BS3882, weed free, medium texture, neutral PH value, reasonably stone free with no stones over 20mm in size;
- Finished topsoil levels to be flush with adjacent paved surfaces;
- Soil depths to be 900mm for Extra Heavy Standard trees, 450mm for shrub and hedge planting and backfill to be a mix of 50/50 approved topsoil and tree and shrub planting compost evenly mixed. Soil depth to be 150mm for grass turfs;
- All planting areas to be covered with a 75mm depth of medium grade bark mulch.

PLANT MATERIAL TREATMENT

- All to be British grown stock and fully hardened off;
- Root Dip - Proprietary Root Dip applied to all bare root stock at time of lifting at nursery and prior to planting (for hedgerow plants);
- Anti-Desiccant - Proprietary anti-desiccant to be applied to foliage of all containerised/rootballed material in leaf prior to transportation and during any delay in planting;
- Tree Stakes and Ties - Stakes to be pressure treated, round, smooth and peeled Larch or Chestnut.

EXISTING TREES AND SHRUBS

- Where existing trees and shrubs are to be retained they should be subject to a full Arboricultural inspection for safety;
- Any surgery required shall be in accordance with BS3998 (2010 and all amendments to date) 'Tree Work - Recommendations';
- Avoid damage to branches, trunks and roots of trees. All existing trees and hedges to be retained are subject to BS5837 (2012 and all amendments to date) 'Trees in relation to Construction - Recommendations', and should be fully fenced off, prior to the commencement of any works;
- No storage of materials, disposal of rubbish, site fires, spillage of oil and chemicals, ground compaction, excavation or changes in level shall be carried out within existing tree/hedge canopies.

PROPOSED TREES

- Tree protection and method statements to be provided in accordance with Tree Survey recommendations;
- No trees to be planted within 3 metres of sewers or services or other easement recommended by the relevant statutory undertaker without the use of tree root barriers eg Greenleaf Reroot 600/100 placed between the tree and services;
- All trees shown to be planted ensuring a minimum of 5 metres from buildings;
- Contractor to ascertain the location of all sewers and services prior to tree planting;
- Tree pit size for Extra Heavy Standard Trees to be 1200mm diameter x 900mm depth;
- Extra Heavy Standard Trees to be double staked with cross bar. Stakes to be pressure treated round, peeled and pointed with an overall length of 1800mm. Stakes to be 85mm in diameter with 600mm above ground. Fixing with rubber tree ties to be approved;
- Where necessary increase tree pit dimensions to ensure that tree pits are at least 75mm deeper and 150mm wider than rootball. Break up bottom of pits to a depth of 150mm. Compacted glazed sides of pits should be roughened;
- Cut back any broken or damaged roots to sound growth. Treat cut ends over 25mm diameter with fungicidal sealant.
- Plant trees upright, unless otherwise instructed, in the centre of the pit and at original soil depth.

PROTECTIVE FENCING

- The contractor shall maintain protective fencing around retained trees and hedgerows until all site works are completed. The contractor will then remove the fencing and reinstatement the ground. Within the area so fenced, the existing ground level shall be neither raised nor lowered; all excavations shall then be carried out by hand and all works shall comply fully with the Arboricultural Method Statement;
- The Local Planning Authority shall be advised when the protective fencing has been erected so that it can be checked on site before development commences, and shall thereafter be maintained during the period of construction.

SHRUBS

- Before planting, remove any non-perishable containers and carefully prune any damaged roots. Plant upright or well balanced with best side to front. Carefully return excavated topsoil, packing around evenly spread roots or root ball and heel well in;
- Planting holes for shrubs to be 150mm wider than root spread and 500mm deep. The original soil mark on the plant is to be left 30mm high on transplanting to allow for settlement;
- Shrubs to be planted in groups of 3-7 of the same species, with smaller plants located abutting paths and roads;
- Water plants thoroughly immediately after planting;
- Immediately after planting carefully cut back any damaged, dead or diseased branches and remove any weak, thin or malformed growth. Where and to the extent appropriate for the species cut back to encourage growth;
- After planting fork and or rake soil to a fine tilth with approved cambers and no hollows;
- After forking and raking apply mulch.

HEDGING

- Plant hedging in trenches large enough to take full spread of roots;
- Set out plants evenly as scheduled; planted in groups of 3-7 of the same species;
- Backfill with excavated topsoil, or where contaminated in any way, with clean topsoil;
- Prune back native hedging hard at the appropriate season in year one (and outside of the bird nesting season September 1st to February 28th). This is to promote low bushy growth and preventing the plants from becoming 'leggy'.

RABBIT GUARDS (Hedge Planting)

- Where specified, install rabbit guards supported by canes around each transplant (to supplier specification);
- The contractor shall maintain rabbit shields and canes in place during the management and maintenance period.
- Ilex aquifolium to be protected by shrub shelters (staked and tied to supplier specification).

AMENITY GRASS SEEDING

- Amenity grass seeding undertaken between April and October applied at the recommended rate to weed free, cultivated topsoil;
- Topsoil to be 150mm depth, 25mm stones and above removed and areas uniformly firmed. Seed rolled.
- EM1 Basic General Purpose Meadow Mixture to be sown at a rate of 4g/m²;
- EP1 Pond Edge Mixture to be sown at a rate of 4g/m²

TURFING

- Turf to be in accordance with BS3936:1998;
- Unless otherwise stated, turf is to be good quality cultivated turf, consisting of 25% Dwarf Rye Grass, 20% Cheiving Fescue, 35% Creeping Red Fescue, 20% Smooth Stalked Meadow Grass (equivalent quality to Rolwan Medallion Grade turf), fibrous and well rooted, mown and free of matted or dead grass and pernicious weeds;
- Turves to have been treated by an approved selective weed killer not more than 3 months and not less than 4 weeks before lifting;
- Turf is to be delivered within 36 hours of cutting and shall be off loaded by hand unless arranged on pallets for mechanical handling;
- Turf, which is not laid immediately on delivery, or turf inadequately stored, or in poor condition shall be rejected;
- Turf shall not be laid in exceptionally dry weather or when the ground is frozen or waterlogged;
- All turf shall be laid from planks laid on the previously laid row in alternate grain up grain down rows, with broken joints between rows and well butted up.

MARGINAL AND AQUATIC PLANTING

- Plant shrubs in accordance with the landscape drawings. All non-perishable containers shall be removed, and any damaged roots carefully pruned. Excavate planting holes 75mm wider than the root spread. Each plant shall be planted at its correct depth, to the original soil or nursery mark, to BS4428:1989. Compost shall be worked well into backfill whilst backfilling is in progress, taking care not to raise general levels of the soil;
- Gaps around the root ball shall be filled to half its depth and firmed by hand, but avoiding damage to the roots. Further soil can then be used to fill the voids to the surface and firmed by treading, taking care not to over firm and damage roots;
- Water in all plants within 2 hours of planting with 25 litres minimum per metre squared.

BULB PLANTING

- All bulbs must be commercially grown, not collected from the wild.
- Bulbs to be planted at 30 bulbs per square metre and planted in a naturalistic approach.
- Bulbs shall be thrown onto the ground to ensure natural spacing and planted where they fall.
- Bulbs should be planted with the base of the bulb at the depth of 100mm. Bulbs shall have their base in contact with the soil at the base of the hole.
- Where bulbs are to be planted in formal grass areas plug of turf shall be neatly removed to form the planting hole and replaced after planting.
- All bulbs to be planted between September and November.

WATERING

- Planting areas are to be brought up to field capacity on completion of planting and during maintenance visits subject to prevailing conditions.

WEEDING AND LITTER CLEARANCE

- Planted areas to be maintained weed and litter free during maintenance and management period.

Mix A1		
13	No	Escallonia 'Red Dream' 20%
13	No	Euonymus fortunei 'Emerald 'n' Gold' 20%
16	No	Hebe franciscana 'Blue Gem' 25%
16	No	Hydrangea macrophylla 'Deutschland' 25%
4	No	Lupinus 'My Castle' 5%
4	No	Verberna bonariensis 5%

Mix A2		
18	No	Escallonia 'Red Dream' 20%
18	No	Euonymus fortunei 'Emerald 'n' Gold' 20%
22	No	Hebe franciscana 'Blue Gem' 25%
22	No	Hydrangea macrophylla 'Deutschland' 25%
3	No	Lupinus 'My Castle' 5%
5	No	Verberna bonariensis 5%

Mix A3		
12	No	Escallonia 'Red Dream' 20%
12	No	Euonymus fortunei 'Emerald 'n' Gold' 20%
14	No	Hebe franciscana 'Blue Gem' 25%
14	No	Hydrangea macrophylla 'Deutschland' 25%
3	No	Lupinus 'My Castle' 5%
3	No	Verberna bonariensis 5%

Mix A4		
38	No	Escallonia 'Red Dream' 20%
38	No	Euonymus fortunei 'Emerald 'n' Gold' 20%
48	No	Hebe franciscana 'Blue Gem' 25%
48	No	Hydrangea macrophylla 'Deutschland' 25%
10	No	Lupinus 'My Castle' 5%
10	No	Verberna bonariensis 5%

Mix A5		
31	No	Escallonia 'Red Dream' 20%
31	No	Euonymus fortunei 'Emerald 'n' Gold' 20%
34	No	Hebe franciscana 'Blue Gem' 25%
36	No	Hydrangea macrophylla 'Deutschland' 25%
8	No	Lupinus 'My Castle' 5%
8	No	Verberna bonariensis 5%

Mix A6		
9	No	Escallonia 'Red Dream' 20%
9	No	Euonymus fortunei 'Emerald 'n' Gold' 20%
9	No	Hebe franciscana 'Blue Gem' 25%
11	No	Hydrangea macrophylla 'Deutschland' 25%
3	No	Lupinus 'My Castle' 5%
3	No	Verberna bonariensis 5%

LEAP Mix 1		
11	No	Echinacea purpurea 12%
11	No	Hebe 'Midsummer Beauty' 12%
15	No	Miscanthus sinensis 'Ferrer Osten' 16%
7	No	Rosmarinus officinalis 18%
13	No	Stachys byzantina 14%
15	No	Stipa tenuissima 16%
11	No	Verberna bonariensis 12%

LEAP Mix 2		
5	No	Echinacea purpurea 12%
5	No	Hebe 'Midsummer Beauty' 12%
6	No	Miscanthus sinensis 'Ferrer Osten' 16%
7	No	Rosmarinus officinalis 18%
6	No	Stachys byzantina 14%
6	No	Stipa tenuissima 16%
5	No	Verberna bonariensis 12%

LEAP Mix 3		
5	No	Echinacea purpurea 12%
5	No	Hebe 'Midsummer Beauty' 12%
6	No	Miscanthus sinensis 'Ferrer Osten' 16%
6	No	Rosmarinus officinalis 18%
6	No	Stachys byzantina 14%
6	No	Stipa tenuissima 16%
5	No	Verberna bonariensis 12%

LEAP Mix 4		
5	No	Echinacea purpurea 12%
5	No	Hebe 'Midsummer Beauty' 12%
6	No	Miscanthus sinensis 'Ferrer Osten' 16%
6	No	Rosmarinus officinalis 18%
6	No	Stachys byzantina 14%
6	No	Stipa tenuissima 16%
5	No	Verberna bonariensis 12%

LEAP Mix 5		
5	No	Echinacea purpurea 12%
5	No	Hebe 'Midsummer Beauty' 12%
6	No	Miscanthus sinensis 'Ferrer Osten' 16%
6	No	Rosmarinus officinalis 18%
6	No	Stachys byzantina 14%
6	No	Stipa tenuissima 16%
5	No	Verberna bonariensis 12%

LEAP Mix 6		
5	No	Echinacea purpurea 12%
5	No	Hebe 'Midsummer Beauty' 12%
6	No	Miscanthus sinensis 'Ferrer Osten' 16%
6	No	Rosmarinus officinalis 18%
6	No	Stachys byzantina 14%
6	No	Stipa tenuissima 16%
5	No	Verberna bonariensis 12%

LEAP Mix 7		
5	No	Echinacea purpurea 12%
5	No	Hebe 'Midsummer Beauty' 12%
6	No	Miscanthus sinensis 'Ferrer Osten' 16%
6	No	Rosmarinus officinalis 18%
6	No	Stachys byzantina 14%
6	No	Stipa tenuissima 16%
5	No	Verberna bonariensis 12%

LEAP Hedge Planting		
217	No.	Fagus sylvatica Bushy :5 brks .C 3/m 5-7.5L 40-60cm
Total	217	No.

Amenity Shrub (Mix A)		
121	No.	Escallonia 'Red Dream' Bushy :5 brks .C 2.5/m² 5L 40-60cm
121	No.	Euonymus fortunei 'Emerald 'n' Gold' Bushy :5 brks .C 2.5/m² 5L 40-60cm
149	No.	Hebe franciscana 'Blue Gem' Bushy :5 brks .C 2.5/m² 5L 40-60cm
149	No.	Hydrangea macrophylla 'Deutschland' Bushy :5 brks .C 2.5/m² 5L 40-60cm
33	No.	Lupinus 'My Castle' C 2.5/m² 3L 40-60cm
33	No.	Verberna bonariensis C 2.5/m² 3L 40-60cm
Total	806	No.

Native Structure Planting (Mix B)		
123	No.	Cornus sanguinea 1+1 .BR 1.5/m² 60-100cm
171	No.	Corylus avellana 1+1 .BR 1.5/m² 60-80cm
171	No.	Crataegus monogyna 1+1 .BR 1.5/m² 60-80cm
484	No.	Ligustrum vulgare Branched :3 brks .C 1.5/m² 40-60cm
123	No.	Prunus spinosa 1+1 .BR 1.5/m² 60-80cm
146	No.	Viburnum opulus 1+1 .BR 1.5/m² 60-80cm
Total	2418	No.

Mix B1		
25	No	Cornus sanguinea 5%
155	No	Corylus avellana 32%
155	No	Crataegus monogyna 32%
97	No	Ligustrum vulgare 20%
25	No	Prunus spinosa 5%
29	No	Viburnum opulus 6%

Mix B2		
29	No	Cornus sanguinea 5%
183	No	Corylus avellana 32%
183	No	Crataegus monogyna 32%
115	No	Ligustrum vulgare 20%
29	No	Prunus spinosa 5%
35	No	Viburnum opulus 6%

Mix B3		
24	No	Cornus sanguinea 5%
148	No	Corylus avellana 32%
148	No	Crataegus monogyna 32%
93	No	Ligustrum vulgare 20%
45	No	Prunus spinosa 5%
28	No	Viburnum opulus 6%

Mix B4		
45	No	Cornus sanguinea 5%
285	No	Corylus avellana 32%
285	No	Crataegus monogyna 32%
179	No	Ligustrum vulgare 20%
45	No	Prunus spinosa 5%
54	No	Viburnum opulus 6%

Mix B5		
6	No	Corylus avellana 10%
34	No	Crataegus monogyna 60%
4	No	Ilex aquifolium 7%
6	No	Prunus spinosa 10%
4	No	Rosa canina 7%
4	No	Viburnum opulus 6%

Mix B6		
13	No	Corylus avellana 10%
78	No	Crataegus monogyna 60%
10	No	Ilex aquifolium 7%
13	No	Prunus spinosa 10%
4	No	Rosa canina 7%
8	No	Viburnum opulus 6%

Mix B7		
13	No	Corylus avellana 10%
78	No	Crataegus monogyna 60%
10	No	Ilex aquifolium 7%
13	No	Prunus spinosa 10%
4	No	Rosa canina 7%
8	No	Viburnum opulus 6%

Mix B8		
37	No	Corylus avellana 10%
218	No	Crataegus monogyna 60%
26	No	Ilex aquifolium 7%
37	No	Prunus spinosa 10%
10	No	Rosa canina 7%
22	No	Viburnum opulus 6%

Mix B9		
41	No	Corylus avellana 10%
245	No	Crataegus monogyna 60%
29	No	Ilex aquifolium 7%
41	No	Prunus spinosa 10%
29	No	Rosa canina 7%
25	No	Viburnum opulus 6%

Mix C1		
123	No	Corylus avellana 10%
734	No	Crataegus monogyna 60%
86	No	Ilex aquifolium 7%
123	No	Prunus spinosa 10%
86	No	Rosa canina 7%
74	No	Viburnum opulus 6%

Mix C2		
44	No	Corylus avellana 10%
264	No	Crataegus monogyna 60%
31	No	Ilex aquifolium 7%
44	No	Prunus spinosa 10%
29	No	Rosa canina 7%
27	No	Viburnum opulus 6%

Mix C3		
29	No	Corylus avellana 10%
179	No	Crataegus monogyna 60%
20	No	Ilex aquifolium 7%
29	No	Prunus spinosa 10%
10	No	Rosa canina 7%
17	No	Viburnum opulus 6%

Mix C4		
42	No	Corylus avellana 10%
248	No	Crataegus monogyna 60%
29	No	Ilex aquifolium 7%
42	No	Prunus spinosa 10%
25	No	Rosa canina 7%
25	No	Viburnum opulus 6%

Mix C5		
6	No	Corylus avellana 10%
34	No	Crataegus monogyna 60%
4	No	Ilex aquifolium 7%
6	No	Prunus spinosa 10%
4	No	Rosa canina 7%
4	No	Viburnum opulus 6%

Mix C6		
13	No	Corylus avellana 10%
78	No	Crataegus monogyna 60%
10	No	Ilex aquifolium 7%
13	No	Prunus spinosa 10%
4	No	Rosa canina 7%
8	No	Viburnum opulus 6%

Mix C7		
13	No	Corylus avellana 10%
78	No	Crataegus monogyna 60%
10		