TREES

Abb.	Botanical Name	Form / X Translanted	Girth (cm)	Min. Height (cm)	Root Condition / Pot Size
AC	Acer campestre	Heavy Standard 3x	12-14cm	350-425cm	B
AG	Alnus glutinosa	Heavy Standard 3x	12-14cm	350-425cm	B
BP	Betula pendula	Heavy Standard 3x	12-14cm	350-425cm	RB
CB	Betula utilis Jacquemontii	Heavy Standard 3x	12-14cm	350-425cm	RB
CBF	Carpinus betulus 'Fastigiata'	Heavy Standard 3x	12-14cm	350-425cm	B
MGH	Malus 'Golden Hornet'	Heavy Standard 3x	12-14cm	350-425cm	B
MJD	Malus 'John Downie'	Heavy Standard 3x	12-14cm	350-425cm	B
SA	Prunus avium	Heavy Standard 3x	12-14cm	350-425cm	B
PP	Prunus padus	Heavy Standard 3x	12-14cm	350-425cm	B
SAS	Prunus sallicyana 'Snashkeer'	Heavy Standard 3x	12-14cm	300-350cm	B
SAR	Sorbus aria	Heavy Standard 3x	12-14cm	350-425cm	B
SAL	Sorbus aria 'Lutescens'	Heavy Standard 3x	12-14cm	350-425cm	B
SAS	Sorbus aucup. 'Sheerwater Seedling'	Heavy Standard 3x	12-14cm	350-425cm	B
SA	Sorbus aucuparia	Heavy Standard 3x	12-14cm	350-425cm	B
SJR	Sorbus 'Joseph Rock'	Heavy Standard 3x	12-14cm	350-425cm	B
TC	Tilia cordata	Heavy Standard 3x	12-14cm	350-425cm	B

NATIVE TREE MIX - Planted in species groups of no less than 5 no more than 20 at 1/m²

Abb.	Botanical Name	Form / X Translanted	Girth (cm)	Min. Height (cm)	Root Condition / Pot Size	Density
BETP	Betula pendula 30%	Transplant 1+2	-	60-80	B	1/m²
FRAE	Fraxinus excelsior 30%	Transplant 1+2	-	60-80	B	1/m²
QUER	Quercus robur 10%	Transplant 1+2	-	60-80	B	1/m²
PRUP	Prunus padus 20%	Transplant 1+2	-	60-80	B	1/m²
SORAU	Sorbus aucuparia 10%	Transplant 1+2	-	60-80	B	1/m²

NATIVE SHRUB MIX - To be planted in species groups of no less than 5, no more than 20

Abb.	Botanical Name	Form / X Translanted	Min. Height (cm)	Root Condition / Pot Size	Density
CA	Corylus avellana 20%	Transplant 1+1	60-80cm	B	1/m²
CM	Crataegus monogyna 15%	Transplant 1+1	60-80cm	B	1/m²
IE EA	Ilex aquifolium 10%	-	60-80cm	BL	1/m²
PS	Prunus solnosa 20%	Transplant 1+1	60-80cm	B	1/m²
RA	Rosa arvensis 10%	Transplant 1+1	60-80cm	B	1/m²
RC	Rosa canina 10%	Transplant 1+1	60-80cm	B	1/m²
VO	Viburnum opulus 15%	Transplant 1+1	60-80cm	B	1/m²

HEDGES - to be planted in a double, staggered row & maintained to a height of BSS: 0.10M, EAS & PLC: 1.2M.

Abb.	Botanical Name	Form / X Translanted	Girth (cm)	Min. Height (cm)	Root Condition / Pot Size	Density
BSS	Buxus sempervirens 'Suffruticosa'			15-20cm	BL	4/m
PAB	Escallonia 'Apple Blossom'			60-80cm	BL	3/m
PLO	Prunus laurocerasus 'Otto Luyken'			60-80cm	10L	4/m

ORNAMENTAL SHRUBS / SPECIMENS

Abb.	Botanical Name	Form / X Translanted	Girth (cm)	Min. Height (cm)	Root Condition / Pot Size	Density
AJV	Aucuba japonica 'Variegata'			60-90cm	10L	1/m²
BDR	Buddleia davidii 'Royal Red'			60-90cm	10L	1/m²
CAB	Ceanothus 'Autumnal Blue'			40-60cm	3L	1/m²
CT	Choisya ternata			40-60cm	10L	1/m²
CTS	Choisya ternata Sundance ®			30-40cm	3L	4/m²
CA	Cordyline australis			60-80cm	10L	1
CAF	Cornus alba 'Elegantissima'			80-100cm	10L	1/m²
CH	Cotoneaster dammeri			20-30cm	2L	4/m²
COC	Cytisus scoparius 'Cornish Cream'			40-60cm	3L	1/m²
FEL	Elaeagnus x ebbingei 'Limelight'			40-60cm	10L	1/m²
ERS	Erica lusitanica 'Forward Seedling'			40-60cm	10L	1/m²
EFF	Escallonia 'Red Elf'			40-60cm	3L	4/m²
EBG	Euonymus fortunei 'Emerald Gaiety'			20-30cm	2L	4/m²
EJA	Euonymus japonicus 'Ovatus Aureus'			30-40cm	3L	4/m²
GCC	Griselinia littoralis 'Dixons Cream'			60-80cm	10L	1/m²
HAG	Hebe 'Autumn Glory'			20-30cm	2L	4/m²
HG	Hebe 'Green Globe'			20-30cm	2L	4/m²
HHG	Hedera helix 'Glacier'			20-30cm	2L	4/m²
HMB	Hydrangea macrophylla 'Blue Wave'			40-60cm	10L	1/m²
HH	Hypericum 'Hidcote'			30-40cm	3L	4/m²
HHT	Hypericum x moserianum 'Tricolor'			30-40cm	3L	4/m²
KJP	Kerria japonica 'Pleniflora'			60-80cm	10L	1/m²
LAM	Lavandula angustifolia 'Munstead'			20-30cm	2L	4/m²
M	Monicera nitida			30-40cm	3L	4/m²
MG	Mahonia x media 'Charity'			60-90cm	10L	1/m²
PT	Phormium tenax			40-60cm	10L	1
PTB	Phormium tenax 'Bronze Baby'			40-60cm	10L	1
PRR	Photinia x fraseri 'Red Robin'			60-80cm	10L	1
PTF	Pieris 'Forest Flame'			40-60cm	10L	1/m²
PE	Potentilla fruticosa 'Elizabeth'			30-40cm	3L	4/m²
PLO	Prunus laurocerasus 'Otto Luyken'			40-60cm	3L	4/m²
RSK	Ribes sanguineum 'King Edward VII'			40-60cm	10L	1/m²
SJ	Skimmia japonica			40-60cm	10L	1/m²
SJA	Skimmia japonica 'Anthony Waterer'			30-40cm	3L	4/m²
VTE	Viburnum tinus 'Eve Price'			60-80cm	10L	1/m²

CLIMBERS - to be ready trained on trellis

Abb.	Botanical Name	Form / X Translanted	Girth (cm)	Min. Height (cm)	Root Condition / Pot Size	Density
CH	Clematis montana			100-125cm	10L	
HEH	Hedera helix			100-125cm	10L	

WILDFLOWER SEED MIX A- To be sown at a rate of 4g/M²	Seed mixes available from Emorsgate Wild Seeds. Tel: 01553 829 028	All wildflower areas to have 1M wide close mown grass edge adjacent roads and footpaths.
EM1 – Basic General Purpose Meadow Mixture.		
WILDFLOWER SEED MIX B - To be sown at a rate of 4g/M²		
EM9 – Meadow Mixture for Wetlands		

NO TREE PLANTING BENEATH OVERHEAD LINES (OVERHEAD LINES NOT ON SURVEY; APPROXIMATE LOCATION)

KEY

- PROPOSED TREES
- NATIVE TREE MIX
- NATIVE SHRUB MIX
- PROPOSED HEDGE
- ORNAMENTAL SHRUB BED
- CLIMBERS
- CLOSE MOWN GRASS
- WILDFLOWER MEADOW MIX A
- WILDFLOWER MEADOW MIX B

SPECIFICATION

GENERAL PREPARATION AND GRADING

Preparing for seeding
Seeded areas to be prepared with approximately 400g/M2 4:12:8 NPK fertiliser at 4L/M2.
Seeded areas to be made smooth and even and gradually incorporated into the underlying soil by cultivating to a depth of 150mm, removing all stones, debris, perennial weeds, pre-existing debris, pre-seed, organic vegetation and other extraneous matter.

Seeding
Seeded areas to be sown after thorough cultivation and the removal by mechanical means of all weeds and debris greater than 50mm across or 50mm in depth. Seeded areas to be lightly consolidated by rolling and lightly raked to leave a fine surface tilth.

Seeding in Autumn
Seeded areas to be sown after the first heavy rains to allow germination to take place before the winter. Seeded areas will be broken up ready to receive the seed. Remove Wildflower Mix from bulk bins and mix thoroughly with clean, dry sand at a rate of 50g per square metre. Sow seed by hand in two directions at right angles to each other. Rake in lightly and roll.

Seeding in Spring
Seeded areas to be sown after the last heavy frosts. Seeded areas will be broken up ready to receive the seed. Remove Wildflower Mix from bulk bins and mix thoroughly with clean, dry sand at a rate of 50g per square metre. Sow seed by hand in two directions at right angles to each other. Rake in lightly and roll.

Temporary grass seeding
Any resulting 'bare' areas, caused after earthworks or emergency/public damage, utility plant, services work, parking etc. to contractor's then immediate agreed action and decision and Brief, temporary grass seeding mixture shall be used to provide a quick cover to the exposed soil surface. Seeding shall be carried out in accordance with the manufacturer's instructions and recommendations. Seeding shall be carried out during the months of April to September inclusive. Seeding shall be carried out in dry weather conditions only. Seeding shall be carried out by hand or by mechanical means.

Spreading topsoil
Prior to topsoil replacement, the formation level shall be cleared of all stones, rubbish, debris and any other deleterious material greater than 75mm, these to be carted off site and removed to a tip and all compacted areas to be thoroughly cultivated to ensure full interlock. Topsoil shall be spread on evenly prepared subsoil and shall be cleared of all stones, stones and debris greater than 50mm, thoroughly broken, cultivated and lightly consolidated by rolling. Topsoil shall be spread to the levels and contours as indicated on the drawings. Topsoil shall be free from perennial weeds, stones, clay lumps, subsoil, roots, rubbish, debris, materials toxic to plant growth and any other unsuitable material.

PLANTING

Soil depth
Planting areas shall be topsoiled to a depth of 300mm to the original ground, or where the ground is compacted, ripped and cultivated.

Mixing of topsoil and subsoil
Where different soil types, stones and other deleterious material occur, they shall be separated and removed from the site, and the results of the previous analysis considered. Compost shall be incorporated as directed. Where imported topsoil shall be subsoiled and mixed with existing subsoil to form a transition layer.

Soil improvements
Where directed by the Landscape Architect, soil improvements shall be carried out in accordance with the following:
Sandy soils: Apply 50mm compost and rotovate to a depth of 150mm.
Heavy, compacted clay soils: Apply 100mm fine bark and rotovate to a depth of 150mm.

Organic matter to be used
Compost shall be a manufactured product, well decomposed, fine, and free of weeds and pathogens. The type of compost shall be as approved before the delivery to the site, and the results of the previous analysis considered. Compost shall be incorporated as directed. Where directed compost shall be subsoiled and mixed with existing subsoil to form a transition layer.
Bulk compost: Spread rate - 5 kg/sq.m
Bagged compost: Spread rate - 3 bags/10 litres
Heavy, operated fertilizer: Spread rate - 3 bags/10 litres

Mulches for trees
Mulches shall be peat-free and biodegradable, and shall not inhibit air diffusion or water. The mulches shall be applied before the base of the tree pit is backfilled to the tree and shall be applied to:
Mulch material: Composted bark chippings
Mulch depth: 50mm
Mulch diameter: 1000mm (circle)
Mulch material: Composted bark chippings
Mulch depth: 50mm
Mulch diameter: 4 000mm (3 stakes, one tie each)
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Mulch depth: 50mm
Mulch diameter: 4 000mm (3 stakes, one tie each)
The mulches shall be maintained at the specified depth for a period of 24 months.

Tree ties
The trees are generally to be supported with a single stake and tie, or three stakes and a rail arrangement. Rails shall be of the material specified and shall be fixed securely to the stakes. The rail height shall be 1.5m above the ground. Stakes shall be driven vertically into undisturbed ground before the tree is planted, to a depth of not less than 600mm. Stakes shall be positioned on the windward side of the tree, and shall be fixed to the tree with a tie. Ties shall be of the following type:
Tree ties: Proprietary rubber/plastic buckle tie
Tree tie type: Figure of 8
Heavy, operated fertilizer: Type 13

Planting of trees
The pits for shrubs and underplanting shall be the same depth as given in the nursery, the roots shall be spread across the bottom in an unrestricted manner, and the planting shall be done to ensure a close contact between roots and soil. In the case of pot bound trees, the pot shall be fully broken up before planting. Trees shall be planted with the root collar 50mm above finished ground level.

Watering
Watering shall be by means of mobile bowsers or hand-held hoses, after a specific delay of not more than 100mm and applied slowly to more than 10% thus, shall be repeated to form a shallow basin covering the whole of the pit. The basin shall be maintained until the end of the defects period. A layer of fine bark mulch 50mm deep shall be applied over the base of the pits. Where bark mulch is specified, it shall be of a 50mm diameter shredded hardwood chip. Bark shall be applied to