SPECIFICATION

- Applies to all landscape operations.

1 GENERAL

1.1 Preliminaries

Health and Safety considerations are as the Bloor Homes Trade Specifications.

The following specification is in-line with the Trades Specification, however where there are specific requirements, these notes take precedence over the general guidance outlined within the Trade Specification.

The Site Manager should possess and distribute information to the relevant contractors regarding all underground services, engineering, drainage, lighting and ecological constraints and current proposed landscaping prior to external works and landscaping operations.

Tree and hedgerow protection, subsoil cultivation, topsoiling and levelling/grading operations outlined below are the responsibility of the Site Agent unless stated otherwise.

Trees in hard surfaces will require engineered tree pits which will require construction when surfaces and service routes are being installed. Reference should be made to the appropriate tree pit detail drawing provided by the engineers and on the landscape drawings where applicable.

Where tree pits are within 5m of roads and services, and within 3m of other paved surfaces* a linear root barrier is to be installed in accordance with the manufacturer's instructions. The barrier should be as near as possible to the surface or service route to be protected to provide as much rooting area as possible for the tree.

*distances may vary according to requirements.

1.2 Soft Landscaping Considerations

All soft landscaping should be carried out by specialist landscape sub-contractor who is either British Association of Landscape Industries (BALI) accredited or can demonstrate a proven track record.

All plants shall conform to the specification details shown on this drawing, which are taken from the National Plant Specification, and must be well rooted, healthy stock. Plants required for hedging or massing must be uniform in every respect.

Plants must be in accordance with the relevant section of the current BS 3936 Nursey Stock Specification, and trees to the most current BS 8545 Trees: **From Nursery to Independence in the Landscape.**

Supplying nurseries shall be registered under the HTA Nursery Certification Scheme.

All plants shall be packed, transported and handled in accordance with the Code of Practice for Plant Handling as produced by the Committee for Plant Supply and Establishment (CPSE) and handling of trees to the most current BS 8545.

1.3 Tendering and Implementation

Landscape Contractors are required to tender and implement as per the schedule and specification.

It is recognised that there are seasonal variations in plant availability and so it may be necessary for plant specifications to be revised. However any substitutions should be with a suitable alternative of comparable size to meet the schedule requirements, and should be approved by the Bloor Homes Landscape Design Department.

All landscape implementation will be audited. Plant material not approved will be rejected and replaced at the Landscape Contractor's own expense.

The site should be found in a condition as described in the Ground Workers' Trade Specification document which includes the removal of all builder's debris and the hardcore base set for scaffolding.

2 RETENTION OF EXISTING TREES AND HEDGEROWS

Precautions must be taken to ensure that trees and hedges shown for retention remain undisturbed with roots and branches protected with robust barriers in accordance with the most current BS 5837 Trees in Relation to Design, Demolition and Construction. Any tree surgery work should be in accordance with the most current BS 3998 Recommendation for Tree Work and must comply with any Conservation Area, Tree Preservation Orders or specific planning conditions where appropriate.

Reference must be made to Tree Protection Drawings.

3 PRE-PLANTING AND PRE-TURFING GROUND PREPARATION (Groundworking)

3.1 Subsoil Cultivation

Prior to any topsoiling all subsoil should be thoroughly 'ripped' to relieve compaction using suitable machinery, or by hand in confined areas or in proximity to existing tree roots to a depth of 150mm.

3.2 Imported and Stored Topsoil

Wherever possible store and re-spread existing topsoil to POS areas to encourage re-generation of localised native species.

Topsoil, all topsoiling and soil storage operations are to be carried out in accordance with the current BS 3882 Specification for Topsoil. Topsoil spreading should be carried out to the depths shown below and all topsoiled areas should be cleared of all extraneous matter such as perennial weeds, plastic, wood, metal and stones greater than 50mm in any dimension which should be removed from site to a licensing facility.

Minimum depths of topsoil after firming and of subsoil cultivation to be achieved:

Type of Soft Landscaping	Topsoil Depth	Depth of subsoil to be broken up
Planted areas*	300mm	150mm
Grass Areas	150mm	150mm

* Remove extraneous matter within cultivated subsoil above 75mm in any dimension.

3.3 Levelling/Grading

In final grading operations finished soil levels adjacent to buildings are to be 150mm below damp proof course. For planted areas where 75mm depth bark mulch is specified the soil should be graded down towards adjacent paved or grass surfaces to 90mm below the paving or grass. This allows for full depth of bark mulch with 15mm clearance. For turfed areas final soil levels should be 10mm above the adjacent paving ready to receive the turf and for seeded areas at least 30mm above.

3.4 Weed Treatment

Only where necessary, because significant weed growth has started to establish, treat existing weeds with a non-residual based, herbicide and allow a suitable period as recommended by the manufacturer for this to take effect. Herbicide should be used strictly in accordance with The Pesticides Act 1999 (or otherwise updated/superseded legislation), according to manufacturer's instructions and only by qualified staff. Use products that are approved by the Soil Association.

Remove small amounts of weed growth within shrub beds by hand at time of planting.

4 PLANTING

4.1 Ground Preparation

Planting shall not be carried out when the ground is waterlogged, frost-bound or during periods of cold drying winds.

All planting, seeding and turfing operations are to be in accordance with latest BS 4428 Code of Practice for General Landscape Operations.

A general purpose organic slow release fertilizer at the rate of 100g/m2 is to be incorporated into the top 150mm of topsoil during final cultivations.

4.2 Setting Out

Shrubs and hedges are to be set out as shown on the drawing at the specified densities and centres. The operatives carrying out the works should be able to interpret drawings, set out landscaping areas and communicate any discrepancies with our Site Manager.

Ornamental hedges are to be planted in a single row unless otherwise stated.

Trees are to be planted in the positions shown on the drawing ensuring that they are at the correct distances from adjacent buildings and 1.5m from drainage runs.

It is imperative that trees are planted with the correct species and location as specified in the drawings in accordance with the NHBC Standards Chapter 4.2, or the LABC Standards, whichever is applicable.

It is the contractor's responsibility to ensure that all underground services have been located and identified in advance of tree pit excavation to avoid damage to any underground services or cables.

4.3 Planting

Bare rooted and root balled stock to be planted between mid-November and end-February.

Planting pit sizes should be relative to the container size or root ball of the plant and shall be sufficiently large enough to accommodate the plants without root damage and to allow for backfill of topsoil and planting compost.

All ornamental hedgerow/ boundary plants are to be 'topped' cut to form a level hedge across each section of new hedging.

Plants are to be pit planted into the prepared soil incorporating peat free tree and shrub compost in quantities shown below, and firmed in.

Quantities of peat free tree and shrub planting compost:

2-3L Shrubs and Herbaceous	3 Litres
5-10L Shrubs	5 Litres
25L Specimens	10 Litres
Trees	20 Litres plus 100g/m² organic slow release fertiliser and 150ml mycorrhizal dressing such as 'Rootgrow'

All trees and shrubs are to be watered thoroughly, to full ground capacity, immediately after planting and before the application of mulch. The landscape contractor shall allow for provision of all equipment to complete this initial watering, using water supply point as directed on site.

4.4 Tree Planting

Tree planting operations should be in accordance with part 10 of the current BS 8545 Trees from Nursery to Independence in the Landscape.

Tree pits are to be excavated to a minimum of 1m X 1m X 600mm with the sides well scarified to prevent smearing, the base of tree pits are to remain undisturbed and should only be broken up if there is a drainage problem and/or soil pan. If conditions make drainage necessary this should be provided away from the tree, with the base of the pit sloped to direct water into a drainage pipe.

Backfill of tree pits should be in layers of 150mm at a time starting with subsoil followed by layers of topsoil with compost etc. as shown above.

Root flare of the newly planted tree should be clearly visible at the soil surface. It should not be buried by excess soil or by mulch.

Ensure trees in hard surfaces and in restricted areas are planted in accordance with the appropriate tree planting detail with sufficient volumes of tree soil.

All trees are to be watered thoroughly, immediately after planting. The landscape contractor shall allow for provision of all equipment to complete this initial watering, using water supply point as directed on site.

Each tree is to receive at least 30 gallons when watered.

4.5 Tree Support

All trees up to and including selected standards are to be supported with single 75mm diameter stake.

All heavy standard size trees shall be double staked with 100mm diameter stakes and a half-round timber cross-brace fitted to the windward side of the tree within 25mm of the top of the stakes. Stakes are to be securely driven into the firm ground prior to planting to a height above ground that is one third of the height above ground of the tree when planted to allow free movement of the crown. Secure street trees to cross-brace with an adjustable plastic / rubber tie with spacer and buckle (buckle end to be nailed to stake). Ensure that the tree is vertical Secure POS trees with a bio-degradable hessian tree tie, wrapping the material round itself to form a spacer and nailing it to the stake or cross-brace.

Each tree should be fitted with a tree irrigation/aeration system unit fitted to fully surround the root ball in accordance with the details. Refer to specific tree planting details.

Linear root barriers where required should be installed as near to the surface or service route to be protected as possible to provide as much rooting area for the trees as possible. Ensure that there are no sharp objects close to either side of the barrier and that the top edge of the root barrier remains 10mm above the surface on the tree side with no growing medium over the top of the barrier. Overlapping ends should be joined by taping both sides with jointing tape.

4.6 Climber Support

Climbers are to be supplied on a timber trellis which is to be screwed to the wall or fence in accordance with the detail.

All trees and shrubs are to be watered thoroughly, to full ground capacity, immediately after planting and before the application of mulch. The landscape contractor shall allow for provision of all equipment to complete this initial watering, using water supply point as directed on site.

4.7 Mulch

Finished soil levels adjacent to buildings are to be 150mm below damp proof course. For planted areas where 75mm depth bark mulch is specified the soil should be graded down to adjacent paved or grass surfaces to 90mm below the paving or grass. This allows for full depth of bark mulch with 15mm clearance.

Where 40mm depth stone mulch is specified with geo-textile membrane grade to 55mm below paving or grass within 500mm.

Ensure the area to be mulched is entirely free from annual and perennial weeds and has been watered prior to applying an even spread of mulch to planting areas to control weeds and retain moisture.

Apply good quality bark mulch to a depth of 75mm to ornamental plot planting beds, hedgerows, POS Play Mix and Groundcover Mix planting areas and tree stations.

Where stone mulch is requested by the regional office apply 40mm of stone over Plantex Geotextile membrane or equivalent pegging down with metal pegs.

Finished mulch levels should be no higher than 15mm below adjacent pavement or grass levels to avoid any spillages.

4.8 Whip Planting

Bare root plants are to be notch planted, ensuring the notch is vertical and deep enough for the roots to hang freely. The notch is to be closed and the soil well firmed around the roots. Any container grown or root balled plants are to be pit planted. All stock is to be fitted with a 60cm minimum size clear plastic spiral rabbit guard secured to a bamboo cane, or with a tree shelter secured to a stake as appropriate.

4.9 Native Hedge Planting

Double Staggered Hedges are to be trench planted in a trench 500mm wide X 300mm deep planting in a double staggered row at 330mm centres with 330mm between rows, backfilling with the excavated material incorporated with a general purpose slow release fertiliser at a rate of 100gm/m². Triple Staggered Hedges are to be trench planted in a trench 1100mm wide X 300mm deep planting in a triple staggered row at 330mm centres with 450mm between rows.

Each plant is to be fitted with a clear plastic spiral rabbit guard secured to a bamboo cane support. Any container grown or root balled plants are to be fitted with a suitable tree shelter secured to stake.

5 GRASS

5.1 Turf Preparation

The area to be turfed shall be cultivated to a minimum depth of 150mm removing all weeds, debris and stones over 25mm diameter which should be placed in waste skips provided or as directed by the site manager. The surface shall be raked to smooth flowing contours with a fine tilth, incorporating pre-turfing fertiliser at 50 g/m2.

5.2 Delivery and Storage

Turf shall be supplied in accordance with the most current BS 3969 Recommendations for Turf for General Purposes.

Turf shall be cultivated high grade turf well rooted seeded turf free from stones, weeds and course grasses. It shall be close textured, green in colour and be sufficiently fibrous to withstand handling. Turf rolls shall be regular in shape, 300mm wide and of uniform thickness (minimum 25mm). The grass shall be closely mown and shall not exceed 25mm in height.

Turf shall be stacked in piles of up to 1 metre. It shall not be laid in frosty or waterlogged conditions and shall not be stacked in rolls for more than three days. Any turf deemed to be substandard shall be replaced at the landscape sub-contractors cost.

5.3 Turf

Turfing operations shall be in accordance with the most current BS 4428.

Turf should be laid when weather conditions are suitable and not during exceptionally frosty or dry weather conditions.

Turf is to be laid with staggered joints, well butted together, and in firm contact with the soil working from planks positioned on turves already laid. At no time should freshly laid turf be walked on without the use of boards.

The turf shall be watered immediately on completion. The landscape contractor shall allow for provision of all equipment to complete this initial watering, using water supply point as directed on site.

Any unevenness shall be made good by lifting the turf and adjusting the levels. Should shrinkage occur, fine topsoil shall be brushed into the joints.

Where trees are planted in turfed areas a 750mm diameter circle around each tree is to be kept clear of turf.

5.4 Seeding Preparation

The area to be seeded shall be cultivated to a minimum depth of 150mm removing all weeds, debris and stones over 25mm diameter which should be placed in waste skips or as directed by the site manager. The surface shall be raked to smooth flowing contours with a fine tilth, incorporating pre-seeding fertiliser at 50 g/m2 unless to amenity seeded areas only and work into top 50mm during final cultivation.

5.5 Amenity Grass Seeding

All Grass seed shall be sown in March / April or September during calm weather conditions and not when the ground is frost bound or waterlogged. Seed shall be sown in two equal sowings in traverse directions at 35g/m² total unless otherwise stated. After sowing the contractor shall lightly rake the seed into intimate contact with the soil.

5.6 Wild flower Seeding

All wildflower seed mixes are to be from a certified source with local provenance seed stock. Ground preparation to be as supplier's specification/ guidance. Sowing applications may vary but are likely to be carried out in early spring or late autumn. After sowing lightly rake the seed into intimate contact with the soil.

6 MAINTENANCE

The landscape contractor shall maintain all landscape areas for a period of 12 months following practical completion to ensure successful establishment. All stock deemed to be dead, dying or diseased within the 12 months defects period shall be replaced by the contractor at own cost. Maintenance of plot landscaping will be handed over to the householders as and when each house is occupied.

6.1 Weed Clearance

All planting areas are to be kept weed free by hand weeding unless otherwise specified.

6.2 Litter Clearance

All areas are to be kept litter free.

6.3 Watering

Watering to planted areas is to be undertaken as necessary to ensure plants become established.

All trees and shrubs are to be watered thoroughly, to full ground capacity, immediately after planting and before the application of mulch. The landscape contractor shall allow for provision of all equipment to complete this initial watering, using water supply point as directed on site.

Each tree is to receive at least 30 gallons when watered.

6.4 Checking Ties

All tree ties and stakes are to be checked, adjusted (if too loose, too tight or if chaffing is occurring) and replaced if damaged or missing. Any broken stakes are to be replaced.

6.5 Formative Pruning

Any damaged shoots/branches are to be pruned back to healthy wood. Plants are to be pruned in accordance with good horticultural practice to maintain healthy well-shaped specimens. Shrubs grown for their coloured stems, such as Cornus, are to be cut back each spring to encourage new growth.

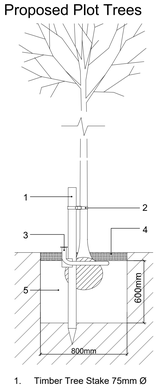
All hedges are to be clipped to help form hedge to dimensions on drawing/ Management Report. Cut back off pavement & kept to a maximum height of 1.2m unless specified otherwise.

6.6 Turfed and Seeded Areas

When newly turfed & seeded areas reach 50mm they should be lightly rolled and cut to a height of 40mm. All arising's shall be removed. Any bare patches shall be made good at this time. Lawn areas should then be cut at appropriate intervals during the growing season to maintain a 40mm high sward. Watering, weeding and repair of all erosion and settlement with re-seeding or turfing shall be undertaken as required to establish a uniform and healthy stand of grass.

TREE PLANTING DETAIL

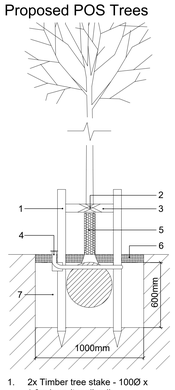
Proposed Plot Trees



1. Timber Tree Stake 75mm Ø x 1.8m long (tanalised)
2. Adjustable platic / rubber tie with spacer and buckle
3. Irrigation system. Nail to stake with 50mm galvanised nail. Ensure filler cap finished slightly about mulch level
4. Mulch layer - 75mm Ornamental Bark Nuggets 15-65mm
5. Topsoil, compost and fertiliser. Base of tree pit to remain undisturbed, sides scarified
* NOTE: Secure at a height no more than ⅓ of the total height of the tree above ground when planted

TREE PLANTING DETAIL

Proposed POS Trees

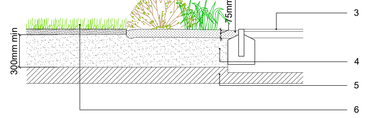


1. 2x Timber tree stake - 100Ø x 1.8m long (tanalised)
2. Hessian Tree Tie
3. FSC Timber cross brace *
4. Irrigation System - nail to stake with 50mm galvanised nails. Ensure filler cap finishes slightly above mulch level
5. Rabbit Mesh Guard 600 mm height
6. Mulch layer - 75mm Ornamental Bark Mulch 8-35mm
7. Topsoil, compost and fertiliser. Base of tree pit to remain undisturbed, sides scarified
* NOTE: Secure at a height no more than ⅓ of the total height of the tree above ground when planted

NOTE: Where trees are within 5m of roads and services and within 3m of footpaths linear root barrier with root deflecting ribs, is to be installed in accordance with manufacturers instructions. Barrier is to be adjacent to the surface or service route to provide maximum rooting area.

PROPOSED PLOT PLANTING DETAIL

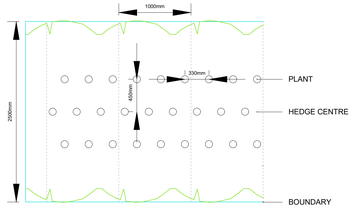
- Shrubs/Herbaceous/Grasses



1. PLANTING
2. MULCH LAYER - Ornamental Bark Mulch 8-35mm, 75mm min depth.
   - finished levels 15mm below adjacent surfaces.
3. HARD SURFACE
   - construction layers and depths dependant on finished surface
4. TOPSOIL - compost and fertiliser
   - graded down to below 90mm below the paving or grass
5. SUBSOIL
6. TURF

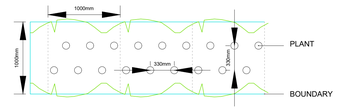
NATIVE HEDGE PLANTING- DETAIL

TRIPLE STAGGERED (9pc/m)



NATIVE HEDGE PLANTING- DETAIL

DOUBLE STAGGERED (6pc/m)



THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SEPERATE GROUP / SITE SPECIFIC CONSTRUCTION NOTES AND MATERIALS SPECIFICATION.

PLANTING SCHEDULE

- All areas

PROPOSED TREES - Heavy Standard

Number	Abbreviation	Species	Girth	Height	Pot Size	Specification
12 -	ACECAM	Acer campestre	12-14cm	350-425cm		Heavy Standard: 5 brks: 3x: B: Clear Stem min. 200cm
6 -	ALNGL	Alnus glutinosa	12-14cm	350-425cm		Heavy Standard: 5 brks: 3x: B: Clear Stem min. 200cm
4 -	AMELAM	Amelanchier lamarckii	12-14cm	300-350cm	45-85L	Heavy Standard: 5 brks: C: Clear Stem 175-200cm
13 -	BETPE	Betula pendula	12-14cm	350-425cm		Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm
7 -	CARBETFF	Carpinus betulus 'Frans Fontaine'	12-14cm	350-425cm	45-85L	Heavy Standard: 5 brks: C: Clear Stem 175-200cm
6 -	CARBEL	Carpinus betulus 'Lucas'	12-14cm	350-425cm	45-85L	Heavy Standard: 5 brks: Clear Stem min. 200cm
1 -	CRAMON	Crataegus monogyna	12-14cm	350-425cm		Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm
1 -	FAGSY	Fagus sylvatica	12-14cm	350-425cm		Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm
1 -	JUGRE	Juglans regia	12-14cm	350-425cm	50 x 35cm	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm
4 -	MALSYLB	Malus sylvestris	12-14cm	350-425cm		Heavy Standard: 5 brks: 3x: B: Clear Stem 175-200cm
2 -	PRUAV	Prunus avium	12-14cm	350-425cm		Heavy Standard: 5 brks: 3x: B: Clear Stem 175-200cm
5 -	PYRCACH	Pyrus calleryana 'Chanticleer'	12-14cm	350-425cm	45-85L	Heavy Standard: 5 brks: C: Clear Stem 175-200cm
7 -	QUERO	Quercus robur	12-14cm	350-425cm		Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm
3 -	SALCAP	Salix caprea	12-14cm	350-425cm		Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm
2 -	SORAR	Sorbus aria	12-14cm	350-425cm		Heavy Standard: 5 brks: 3x: B: Clear Stem 175-200cm
10 -	SORAU	Sorbus aucuparia	12-14cm	350-425cm		Heavy Standard: 5 brks: 3x: B: Clear Stem 175-200cm
1 -	SORAUFA	Sorbus aucuparia 'Fastigiata'	12-14cm	350-425cm	45-85L	Heavy Standard: 5 brks: C: Clear Stem 175-200cm
3 -	TILCO	Tilia cordata	12-14cm	350-425cm		Heavy Standard: 5 brks: 3x: B: Clear Stem 175-200cm

Total :88 -

PROPOSED TREES - Selected Standard

Number	Abbreviation	Species	Girth	Height	Pot Size	Specification
2 -	CARBET	Carpinus betulus	10-12cm	300-350cm	45L	Selected Standard: 4 brks: C: Clear Stem 175-200cm
4 -	PRUSNG	Prunus 'Snow Goose'	10-12cm	300-350cm	45L	Selected Standard: 4 brks: C: Clear Stem 175-200cm
10 -	SORAUS	Sorbus aucuparia 'Streetwise'	10-12cm	300-350cm	45L	Selected Standard: 4 brks: C: Clear Stem 175-200cm

Total :16 -

PROPOSED TREES - Standard

Number	Abbreviation	Species	Girth	Height	Pot Size	Specification
5 -	AMEBA	Amelanchier 'Ballerina'	8-10cm	250-300cm	35-45L	Standard: 3 brks: C: Clear Stem 150-175cm
6 -	BETUTJ	Betula utilis jacquemontii	8-10cm	250-300cm	35-45L	Standard: 4 brks: C: Clear Stem 175-200cm
9 -	MALBASP	Malus baccata 'Street Parade'	8-10cm	250-300cm	25-35L	Standard: 3 brks: C: Clear Stem 175-200cm
5 -	PRUSER	Prunus cerasifera 'Pissardii'	8-10cm	250-300cm	25-35L	Standard: 3 brks: C: Clear Stem 175-200cm
3 -	PRUPAAL	Prunus padus 'Albertii'	8-10cm	250-300cm	25-35L	Standard: 3 brks: C: Clear Stem 175-200cm

Total :28 -

PROPOSED TREES- Multi-stem

Number	Abbreviation	Species	Height	Pot Size	Specification
2 -	AMECA	Amelanchier canadensis	150-175cm	25L	Multi-Stemmed: Bushy: 5 Stems min.: C
3 -	CORAV	Corylus avellana	150-200cm	45L	Multi-Stemmed: Bushy: 5 Stems min.: C

Total :5 -

SHRUBS - Specimen

Number	Abbreviation	Species	Height	Diameter	Pot Size	Specification
2 -	AMECA	Amelanchier canadensis	150-175cm		25L	Multi-Stemmed: Bushy: 5 Stems min.: C
3 -	CORAV	Corylus avellana	100-125cm		5 brks:	Branched: RB
3 -	CORAV	Corylus avellana	150-200cm		45L	Multi-Stemmed: Bushy: 5 Stems min.: C
6 -	VIBBODA	Viburnum x bodnantense 'Dawn'	80-100cm		10L	Branched: 4 brks: C

Total :14 -

ORNAMENTAL HEDGE

Number	Abbreviation	Species	Height	Diameter	Pot Size	Density	Specification
496 -	ELAEB	Elaeagnus x ebbingei	60-80cm		5-7.5L	3/m	Branched: 4 brks: C
360 -	ESCRH	Escallonia 'Red Hedger'	60-80cm		5L	3/m	Bushy: 5 brks: C
111 -	ILEAQJT	Ilex aquifolium 'J.C. van Tol'	40-60cm		5-7.5L	3/m	Leader with Laterals: C
265 -	LONNIMG	Lonicera nitida 'Maigrün'		40-60cm	10L	3/m	Bushy: 10 brks: C

Total :1232 -

ORNAMENTAL NATIVE HEDGE

Number	Abbreviation	Species	Height	Diameter	Pot Size	Density	Specification
1131 -	CARBET	Carpinus betulus	80-100cm			4/m	1+1: Transplant - seed raised: B

Total :1131 -

NATIVE HEDGE

Number	Abbreviation	Species	Height	Diameter	Pot Size	Density	Specification
296 -	CORAV	Corylus avellana	80-100cm			6/m	1+2: Transplant - seed raised: Branched: 4 brks: B
787 -	CRAMON	Crataegus monogyna	80-100cm			6/m	1+2: Transplant - seed raised: B
491 -	PRUSP	Prunus spinosa	80-100cm			6/m	1+2: Transplant - seed raised: Branched: 3 brks: B
100 -	ROSCA	Rosa canina	60-80cm			6/m	1+1: Transplant - seed raised: Branched: 3 brks: B
296 -	VIBOP	Viburnum opulus	80-100cm			6/m	1+2: Transplant - seed raised: Branched: 3 brks: B

Total :1970 -

NATIVE HEDGE (TS)

Number	Abbreviation	Species	Height	Diameter	Pot Size	Density	Specification
517 -	CORAV	Corylus avellana	80-100cm			9/m	1+2: Transplant - seed raised: Branched: 4 brks: B
1376 -	CRAMON	Crataegus monogyna	80-100cm			9/m	1+2: Transplant - seed raised: B
860 -	PRUSP	Prunus spinosa	80-100cm			9/m	1+2: Transplant - seed raised: Branched: 3 brks: B
175 -	ROSCA	Rosa canina	60-80cm			9/m	1+1: Transplant - seed raised: Branched: 3 brks: B
517 -	VIBOP	Viburnum opulus	80-100cm			9/m	1+2: Transplant - seed raised: Branched: 3 brks: B

Total :3445 -

NATIVE BUFFER MIX - Individual species to be planted together in groups of 3-7.

Number	Abbreviation	Species	Height	Pot Size	Density	Specification
53 -	ACECAM	Acer campestre	80-100cm	1.5Ctr	1+1: Transplant - seed raised: B	
66 -	CORAV	Corylus avellana	80-100cm	1.5Ctr	1+2: Transplant - seed raised: Branched: 4 brks: B	
66 -	CRAMON	Crataegus monogyna	80-100cm	1.5Ctr	1+2: Transplant - seed raised: B	
27 -	PRUAV	Prunus avium	80-100cm	1.5Ctr	1+1: Transplant - seed raised: B	
14 -	QUERO	Quercus robur	80-100cm	1.5Ctr	1+2: Transplant - seed raised: B	
14 -	SALCAP	Salix caprea	60-80cm	1.5Ctr	0/1: Cutting: Branched: 2 brks: B	
27 -	VIBOP	Viburnum opulus	80-100cm	1.5Ctr	1+2: Transplant - seed raised: Branched: 3 brks: B	

Total :267 -

GROUND COVER SHRUBS AND PERENNIAL PLANTS - Shrubs

Number	Abbreviation	Species	Height	Diameter	Pot Size	Density	Specification
43 -	ABEGR	Abelia x grandiflora	40-60cm		5L	2/m²	Bushy: 4 brks: C
113 -	AUCJAR	Aucuba japonica 'Rozannie'	30-40cm		5L	3/m²	Bushy: 4 brks: C
77 -	BRASU	Brachyglottis 'Sunshine'	40-60cm		5-7.5L	2.5/m²	Branched: 6 brks: C
57 -	CEATHR	Ceanothus thyrsiflorus repens		40-60cm	5L	2.5/m²	Bushy: 5 brks: C
38 -	CHOAP	Choisya 'Aztec Pearl'	40-60cm		7.5L	2/m²	Bushy: 6 brks: C
17 -	CHOTE	Choisya ternata	40-60cm		7.5L	2/m²	Bushy: 5 brks: C
35 -	CHOTOTES	Choisya ternata 'Sundance'	40-60cm		10L	2/m²	Bushy: 7 brks: C
45 -	CISCO	Cistus x corbariensis	40-60cm		5-7.5L	3/m²	Bushy: 6 brks: C
12 -	CORALE	Cornus alba 'Elegantissima'	60-80cm		5L	2/m²	Branched: 4 brks: C
31 -	ELAEB	Elaeagnus x ebbingei	80-100cm		10L	1.8/m²	Branched: 6 brks: C
28 -	EUOFODB	Euonymus fortunei 'Dart's Blanket'		20-30cm	2L	6/m²	Bushy: 3 brks: C
133 -	EUOFOENG	Euonymus fortunei 'Emerald 'n' Gold'	25-30cm	30-40cm	5-7.5L	3.5/m²	Bushy: 9 brks: C
77 -	EUOFOEG	Euonymus fortunei 'Emerald Gaiety'	25-30cm	30-40cm	5-7.5L	3.5/m²	Bushy: 9 brks: C
44 -	EUOJAOA	Euonymus japonicus 'Ovatus Aureus'	60-80cm		10L	2/m²	Bushy: 5 brks: C
9 -	HEBGO	Hebe 'Great Orme'	40-60cm		10L	2/m²	Bushy: 7 brks: C
84 -	HEBALRE	Hebe 'Red Edge'		30-40cm	5-7.5L	3.5/m²	Bushy: 7 brks: C
80 -	HYPHII	Hypericum 'Hidcote'	40-60cm		7.5L	2.5/m²	Bushy: 9 brks: C
42 -	LAVANHI	Lavandula angustifolia 'Hidcote'	30-40cm		7.5L	2.5/m²	Bushy: 9 brks: C
62 -	LONNIMG	Lonicera nitida 'Maigrün'		40-60cm	10L	2/m²	Bushy: 10 brks: C
51 -	MAHAQ	Mahonia aquifolium	40-60cm		10L	2/m²	Branched: 4 brks: C
62 -	OLEHA	Oleania x haastii	40-60cm		10L	2/m²	Bushy: 9 brks: C
51 -	OSMBU	Osmanthus x burkwoodii	60-80cm		10L	2/m²	Bushy: 7 brks: C
47 -	PACTE	Pachysandra terminalis		15-20cm	2L	5/m²	Several Shoots: 7 brks: C
45 -	PHOFRLRR	Photinia x fraseri 'Little Red Robin'	40-60cm		10L	2/m²	Bushy: 9 brks: C
20 -	PHOFRRER	Photinia x fraseri 'Red Robin'	60-80cm		10L	1.8/m²	Branched: 7 brks: C
45 -	PRULAOL	Prunus laurocerasus 'Otto Luyken'	40-60cm		10L	2/m²	Bushy: 6 brks: C
63 -	ROSOFMUU	Rosmarinus officinalis 'Miss Jessopp's Upright'	30-40cm		5L	2/m²	Bushy: 5 brks: C
43 -	SKIJARU	Skimmia japonica 'Rubella'	40-60cm		7.5L	3/m²	Bushy: 4 brks: C
79 -	VIBDA	Viburnum davidii	30-40cm		5-7.5L	3/m²	Bushy: 4 brks: C

Total :1533 -

GROUND COVER SHRUBS AND PERENNIAL PLANTS - Herbaceous

Number	Abbreviation	Species	Pot Size	Density	Specification
66 -	BERCOP	Bergenia cordifolia 'Purpurea'	2L	5/m²	Full Pot: C
113 -	GERJB	Geranium 'Johnson's Blue'	2L	4/m²	Full Pot: C

Total :179 -

GROUND COVER SHRUBS AND PERENNIAL PLANTS - Grasses

Number	Abbreviation	Species	Pot Size	Density	Specification
34 -	STIAR	Stipa arundinacea	2L	3/m²	Full Pot: C

Total :34 -

BULBS

Number	Abbreviation	Species	Pot Size	Density	Specification
325 -	NARPS	Narcissus pseudonarcissus		25/m²	Grade 5/6

Total :325 -

SCRUB MIX - Individual species to be planted together in groups of 3-7.

Number	Abbreviation	Species	Height	Pot Size	Density	Specification
128 -	CORAV	Corylus avellana	60-80cm		1/m²	1+2: Transplant - seed raised: Branched: 3 brks: B
34 -	CYTSC	Cytisus scoparius	40-60cm	150cc min.	1/m²	1+0 :Seedlings :Bushy :CE
128 -	PRUSP	Prunus spinosa	60-80cm		1/m²	1+1: Transplant - seed raised: Branched: 2 brks: B
96 -	RHAFR	Rhamnus frangula	60-80cm		1/m²	1+1 :Transplant - seed raised :Leader With Laterals :3 brks :B
34 -	ROSCA	Rosa canina	40-50cm		1/m²	1+0 :Seedlings :Branched :BR
96 -	RUBFR	Rubus fruticosus			1/m²	1+1: Cutting: Branched: 2 brks: B
66 -	RUBID	Rubus idaeus	40-60cm		1/m²	0/1 :Cutting :BR
66 -	VIBOP	Viburnum opulus	60-80cm		1/m²	1+2: Transplant - seed raised: Branched: 3 brks: B

Total :648 -

GROUNDCOVER MIX - Individual species to be planted together in groups of 3-7.

Number	Abbreviation	Species	Height	Pot Size	Density	Specification
227 -	HYPAN	Hypericum androsaemum	30-40cm	2L	3/m²	Bushy: 3 brks: C
445 -	LAMGA	Lamium galeobdolon		2L	3/m²	Full Pot: C
227 -	SALLA	Salix lanata	20-30cm	2L	3/m²	Branched :2 brks
554 -	STEINCR	Stephanandra incisa 'Crispa'		2L	3/m²	Branched: 3 brks: C
445 -	SYMCHHA	Symphoricarpos x chenaultii 'Hancock'	40-60cm	2L	3/m²	Branched: 3 brks: C
335 -	VIBOPCO	Viburnum opulus 'Compactum'	20-30cm	2L	3/m²	Bushy: 3 brks: C

Total :2233 -

PLAY MIX - Individual species to be planted together in groups of 3-5

Number	Abbreviation	Species	Height	Pot Size	Density	Specification
40 -	BRASU	Brachyglottis 'Sunshine'	30-40cm	3L	4/m²	Branched: 4 brks: C
40 -	CARCLHB	Caryopteris x clandonensis 'Heavenly Blue'	30-40cm	3L	4/m²	Branched: 4 brks: C
40 -	DEUHYMR	Deutzia x hybrida 'Mont Rose'	40-60cm	3L	4/m²	Branched: 4 brks: C
40 -	OLEHA	Oleania x haastii	30-40cm	3L	4/m²	Bushy: 4 brks: C
40 -	PERBS	Perovskia 'Blue Sp