IMPLEMENTATION AND MAINTENANCE GUIDELINES

1.0 GENERAL

All plants shall conform to BS 3936 and be in accordance with the National Plant Specification. Supplying nurseries shall be registered under the HTA Nursery Certification Scheme. All plants shall be packed and transported in accordance with the Code of Practice for Plant Handling as produced by CPSE. Planting shall not be carried out when the ground is waterlogged, frostbound or during periods of cold drying winds. All bare root stock shall be root dipped in an approved water-retaining polymer.

If the formation level is compacted it should be ripped through before topsoiling.
Topsoil depths to be 450mm for shrub beds and 150mm for grass areas.

2.0 ORNAMENTAL SHRUBS AND TREES

2.1 Ground Preparation
Where necessary treat existing weeds with a glyphosate based herbicide and allow a suitable period as recommended by the manufacturer for this to take effect. A general purpose slow release fertilizer at the rate of 75gm/m2 and Tree Planting and Mulching Compost at the rate of 20litres/m2 are to be incorporated into the top 150mm of topsoil during final cultivations. All extraneous matter such as plastic, wood, metal and stones greater than 50mm in any dimension shall be removed from site.

Tree pits are to be excavated and the base broken up a further 150mm with the sides well scarified to prevent smearing. All trees up to and including selected standards are to be supported with single 75mm diameter stakes. All rootball, container grown and trees over heavy standard size shall be double staked. Any feature trees semi mature in size to be secured with a below ground anchoring system (such as a deadman anchor). Stakes should be driven 500mm into undisturbed ground before planting the tree, taking care to avoid underground services and cables etc.

2.2 Planting
Shrubs and hedges are to be set out as shown on the drawing and pit planted into the prepared soil with minimal disturbance to the rootball and well firmed in.

Trees are to be placed into the pits and backfilled with topsoil incorporating slow release fertilizer and Tree planting and mulching compost as specified. Firm trees in well and secure with proprietary rubber tree ties and spacers.

Water in all trees and shrubs at the end of each day of planting.

Spread ornamental pine bark mulch to a depth of 75mm across all new planting areas, ensuring groundcover plants are not buried.

2.3 Maintenance
The landscape contractor shall maintain all areas of new planting for a period of 12 months following practical completion. All stock deemed to be dead, dying or diseased within the defects period shall be replaced by the contractor at his own cost.

The site is to be visited monthly throughout the year to undertake the following operations.
Weed clearance: All planting areas are to be kept weed free by hand weeding or herbicide treatment.
Litter clearance: All litter is to be removed from planting beds
Watering: Planting areas are to be brought up to field capacity at each visit and each tree is to receive 20 gallons.
Checking trees: All tree ties and stakes are to be checked and adjusted if too loose, too tight or if chafing is occurring. Any broken stakes are to be replaced.
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.

3.0 GRASS

3.1 Preparation
The area to be turfed or seeded shall be sprayed out with a glyphosate herbicide and cultivated to a depth of 100mm removing all weeds, debris and stones over 25mm diameter. The surface shall be raked to smooth flowing contours with a fine tilth, incorporating pre-seeding fertilizer at 70 g/m2.

3.2 Delivery and Storage
Turf shall be supplied in accordance with BS3936.

Turf shall be Medallion grade as supplied by Rolawn. It shall be close textured and green in colour and be sufficiently fibrous to withstand handling. Turves 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.

3.3 Turf
Turfing operations shall be in accordance with BS 4428.

Whole turves shall be laid around the perimeter of the area to be turfed. The central area shall be laid in rows with staggered joints, well butted together, working from planks positioned on turves already laid. The turf shall be watered on completion. 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.

3.4 Seeding
Grass seed shall be sown in April during calm weather and not when the ground is frost bound or waterlogged. Seed shall be sown in two equal sowings in transverse directions at 35 g/m2. After sowing the contractor shall lightly rake the seed into intimate contact with the soil.

3.5 Initial cut
When newly seeded and turfed areas reach 50mm they should be lightly rolled and cut to a height of 30mm. All arisings shall be removed. Any bare patches shall be made good at this time. Seeded areas shall be cut for a second time when the sward reaches 50mm high.

4.0 TOPSOIL

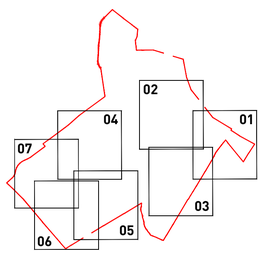
4.1 Existing Topsoil
Pre-planting herbicide application:-
Apply by suitable spraying apparatus, an approved translocated systemic herbicide to the manufacturer's instructions and to 1997 Control of Pesticides Regulations and 2003 COSHH regulations on all beds, except those which are both weed free and are to receive agrotexlide sheet mulch. Spray immediately if any weeds are present. If none are showing, but there may be a delay before planting, or the area is to be seeded, spray after one month following cultivation, to allow dormant seed to terminate. All spraying shall be carried out by skilled and qualified operatives, using protective clothing, in suitable weather (no wind) and any damage caused by spray drift, from incorrect usage or spillage, shall be rectified at the contractor's own cost. Repeat as necessary to ensure complete kill and rake off all dead material from site.

Carry out the following works to the existing topsoil on site to ensure it conforms to BS 3882:2015, being free from rocks larger than 50mm diameter, concrete, all roots, wire, brick, and have less than 20% clay. Allow for pre-application of herbicide as above. Fertilize with 100g per meter square of Vitax "Nutricote 180" slow release fertilizer or equivalent approved, in accordance with the manufacturer's instructions. For beds less than 5 metres in width, fork over thoroughly or machine rotovate soil to a depth of 300mm, ensuring that the sub-grade and topsoil are completely broken up and free draining, relieving any compaction. For beds greater than 5 metres in width, break up the sub-grade and topsoil using a tractor mounted subsoiler or ripper at 500mm centres to a depth of 500mm, except where there are services, or within 10 metres of tree stems or 3 metres of existing hedges. Do not rip areas where roots greater than 10mm diameter are encountered.

4.2 Imported Topsoil
Any imported topsoil for making up ground, shall conform to BS:3882:2015, and be free from rocks (over 50mm diameter), concrete, roots, wire and brick, and have less 20% clay.

KEY

- Site Boundary
- Existing Trees and Vegetation to be Retained
- Soft Landscape Proposals
  Refer to plant schedule for details.
- Premium grade turf
  Rolawn medallion grade turf to plot frontages or similar approved, laid to implementation and maintenance guidelines specification.
- Water main easement
- Other easements
- Tarmacadam surfaced footpath
  Tarmacadam surface to footpaths, pcc edging.
- Tarmacadam surfaced footpath (Adoptable Highway)
  Tarmacadam surface to footpaths, pcc edging.
- Hoggin footpath
  50mm rolled hoggin surface on 100mm type 1 sub base. To be timber edged and cambered on both sides to shed surface water. Fines are essential to ensure the surface compacts. Self binding gravel layer to be well compacted with vibratory roller.
- Trodden footpath through National Forest Planting (outside of development)



SHEET LOCATION PLAN
NTS

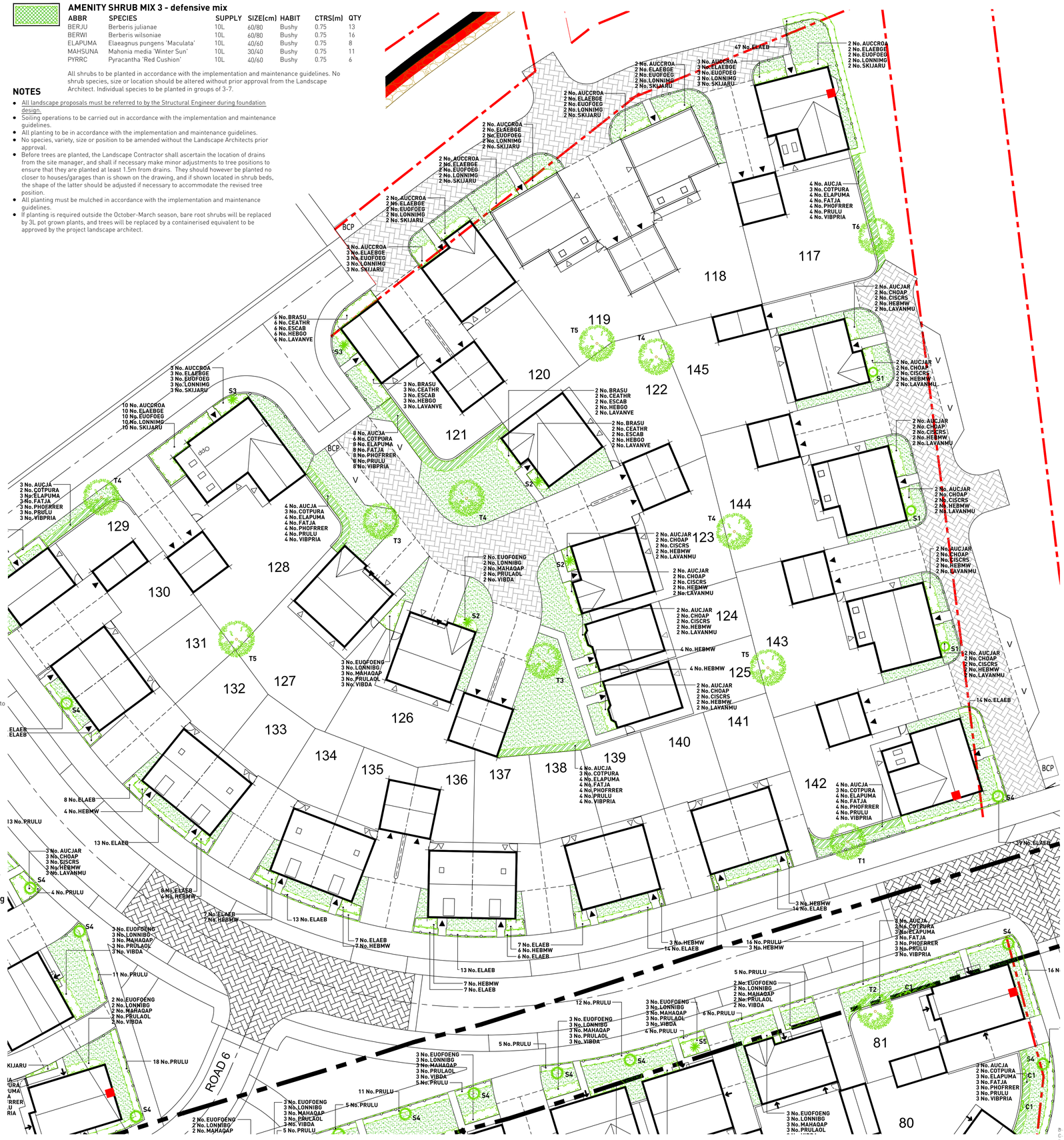
AMENITY SHRUB MIX 3 - defensive mix

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)	QTY
BERJU	Berberis julianae	10L	60/80	Bushy	0.75	13
BERWI	Berberis wilsoniae	10L	60/80	Bushy	0.75	16
ELAPUMA	Elaeagnus pungens 'Maculata'	10L	40/60	Bushy	0.75	8
MAHSUNA	Mahonia media 'Winter Sun'	10L	30/40	Bushy	0.75	11
PYRRC	Pyracantha 'Red Cushion'	10L	40/60	Bushy	0.75	6

All shrubs to be planted in accordance with the implementation and maintenance guidelines. No shrub species, size or location should be altered without prior approval from the Landscape Architect. Individual species to be planted in groups of 3-7.

NOTES

- All landscape proposals must be referred to by the Structural Engineer during foundation design.
- Soiling operations to be carried out in accordance with the implementation and maintenance guidelines.
- All planting to be in accordance with the implementation and maintenance guidelines.
- No species, variety, size or position to be amended without the Landscape Architects prior approval.
- Before trees are planted, the Landscape Contractor shall ascertain the location of drains from the site manager, and shall if necessary make minor adjustments to tree positions to ensure that they are planted at least 1.5m from drains. They should however be planted no closer to houses/garages than is shown on the drawing, and if shown located in shrub beds, the shape of the latter should be adjusted if necessary to accommodate the revised tree position.
- All planting must be mulched in accordance with the implementation and maintenance guidelines.
- If planting is required outside the October-March season, bare root shrubs will be replaced by 3L pot grown plants, and trees will be replaced by a containerised equivalent to be approved by the project landscape architect.



PLANT SCHEDULE

TREES

REF	SPECIES	SUPPLY	SIZE(cm)	GIRTH(cm)	CTRS(m)	QTY
T1	Acer campestre	EHStd	450/625	16/18	as shown	9
T2	Betula pendula	EHStd	450/625	16/18	as shown	21
T3	Carpinus betulus 'Frans Fontaine'	EHStd	425/600	14/16	as shown	13
T4	Malus 'Evereste'	EHStd	425/600	14/16	as shown	15
T5	Prunus sargentii	EHStd	425/600	14/16	as shown	23
T6	Sorbus aucuparia 'Joseph Rock'	EHStd	425/600	14/16	as shown	6

All trees to be planted in accordance with the implementation and maintenance guidelines. The tree planting schedule and landscape proposals must be referred to by the Structural Engineer during foundation design. No tree species, size or location should be altered without prior approval from the Landscape Architect.

SPECIMEN SHRUBS

REF	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)	QTY
S1	Juniperus 'Sky Rocket'	35L	125/150	Bushy	as shown	8
S2	Phormium 'Jester'	25L	100/125	Triple Crwn	as shown	5
S3	Phormium 'Sundowner'	25L	100/125	Triple Crwn	as shown	5
S4	Photinia x fraseri 'Red Robin'	70L	175/200	Standard	as shown	30
S5	Phormium 'Platt's Black'	25L	100/125	Triple Crwn	as shown	16
S6	Phormium 'Yellow Wave'	25L	100/125	Triple Crwn	as shown	16
S7	Buxus sempervirens	50L	120/140	Cone	as shown	20
C1	Trachelospermum jasminoides	25L	180	On Trellis	as shown	19

All feature shrubs to be planted in accordance with the implementation and maintenance guidelines. No feature shrub species, size or location should be altered without prior approval from the Landscape Architect.

HEDGEROWS

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)	QTY
ELAEB	Elaeagnus x ebbingei	10L	80/100	Bushy	0.50	551
PRULU	Prunus lusitanica	1m trough	100/120	Bushy	1.00	746

All hedgerow shrubs to be planted in accordance with the implementation and maintenance guidelines. No hedgerow shrub species, size or location should be altered without prior approval from the Landscape Architect. Hedgerow shrubs to be planted in a single row within a 50cm wide bed and mulched in accordance with implementation and maintenance guidelines. Hedgerow shrubs to be trimmed back at time of planting to promote growth and define the hedgerow. Elaeagnus species to be cut to 80cm height and Prunus to 100cm, unless located within visibility splays where the maximum height of the hedgerow should be 60cm.

SHRUB MIX 1 - North Facing

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)	QTY
*EUOFOENG	Euonymus fortunei 'Emerald 'n' Gold'	10L	30/40	Bushy	0.70	163
LONNIBG	Lonicera nitida 'Baggesen's Gold'	10L	40/60	Bushy	0.70	163
*MAHAQAP	Mahonia aquifolium 'Apollo'	10L	40/60	Bushy	0.70	163
PRULAOL	Prunus laurocerasus 'Otto Luyken'	10L	60/80	Bushy	0.70	163
VIBDA	Viburnum davidii	10L	40/60	Bushy	0.70	163

SHRUB MIX 2 - North Facing

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)	QTY
AUCCROA	Aucuba japonica 'Crotonifolia'	10L	40/60	Bushy	0.70	200
ELAEBGE	Elaeagnus ebbingei 'Gilt Edge'	10L	40/60	Bushy	0.70	200
*EUOFOEG	Euonymus fortunei 'Emerald Gaiety'	10L	30/40	Bushy	0.70	200
*LONNIMG	Lonicera nitida 'May Green'	10L	40/60	Bushy	0.70	200
*SKIJARU	Skimmia japonica 'Rubella'	10L	40/60	Bushy	0.70	200

SHRUB MIX 3 - East/West Facing

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)	QTY
BRASU	Brachyglottis 'Sunshine'	10L	40/60	Bushy	0.70	14
*CEATHR	Ceanothus thyrsiflorus repens	10L	40/60	Bushy	0.70	14
*HEBALRE	Hebe albicans 'Red Edge'	10L	30/40	Bushy	0.70	14
PRULAZA	Prunus laurocerasus 'Zabeliana'	10L	60/80	Bushy	0.70	14
VIBDA	Viburnum davidii'	10L	40/60	Bushy	0.70	14

SHRUB MIX 4 - East/West Facing

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)	QTY
AUCJAR	Aucuba japonica 'Rozannie'	10L	40/60	Bushy	0.70	116
CHOAP	Choisya 'Aztec Pearl'	10L	40/60	Bushy	0.70	116
*CISCRS	Cistus x crispus 'Sunset'	10L	40/60	Bushy	0.70	116
*HEBMW	Hebe 'Mrs Winder'	10L	30/40	Bushy	0.70	116
*LAVANMU	Lavandula angustifolia 'Munstead'	10L	30/40	Bushy	0.70	116

SHRUB MIX 5 - South Facing

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)	QTY
BRASU	Brachyglottis 'Sunshine'	10L	40/60	Bushy	0.70	94
*CEATHR	Ceanothus thyrsiflorus repens	10L	40/60	Bushy	0.70	94
ESCAB	Escallonia 'Apple Blossom'	10L	60/80	Bushy	0.70	94
*HEBGO	Hebe 'Great Orme'	10L	30/40	Bushy	0.70	94
*LAVANVE	Lavandula angustifolia 'Vera'	10L	30/40	Bushy	0.70	94

SHRUB MIX 6 - South Facing

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)	QTY
ABEGRC	Abelia grandiflora 'Compacta'	10L	40/60	Bushy	0.70	126
*EUOFOEG	Euonymus fortunei 'Emerald Gaiety'	10L	30/40	Bushy	0.70	126
*HEBMAR	Hebe 'Marjorie'	10L	30/40	Bushy	0.70	126
PRULAZA	Prunus laurocerasus 'Zabeliana'	10L	60/80	Bushy	0.70	126
ROSOFMJU	Rosmarinus 'Miss Jessop's Upright'	10L	40/60	Bushy	0.70	126

SHRUBS/HERBACEOUS - Single species

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)	QTY
EUOFOENG	Euonymus fortunei 'Emerald 'n' Gold'	10L	30/40	Bushy	0.60	9
HEBGO	Hebe 'Great Orme'	10L	30/40	Bushy	0.60	6
HEBMAR	Hebe 'Marjorie'	10L	30/40	Bushy	0.70	10
HEBMW	Hebe 'Mrs Winder'	10L	30/40	Bushy	0.70	74
LAVANMU	Lavandula angustifolia 'Munstead'	10L	30/40	Bushy	0.60	15
SKIJARU	Skimmia japonica 'Rubella'	10L	40/60	Bushy	0.60	77

AMENITY SHRUB MIX 1 - to rear garden boundaries

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)	QTY
AUCJA	Aucuba japonica	5L	40/60	Bushy	0.75	174
COTPURA	Cotinus coggygria 'Royal Purple'	5L	40/60	Bushy	0.75	123
ELAPUMA	Elaeagnus pungens 'Maculata'	5L	40/60	Bushy	0.75	174
FATJA	Fatsia japonica	5L	40/60	Bushy	0.75	174
PHOFRRER	Photinia fraseri 'Red Robin'	5L	40/60	Bushy	0.75	174
PRULU	Prunus lusitanica	5L	40/60	Bushy	0.75	174
VIBPRIA	Viburnum tinus 'Eve Price'	5L	40/60	Bushy	0.75	174

AMENITY SHRUB MIX 2 - to car parking areas

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)	QTY
CEATHR	Ceanothus thyrsiflorus repens	10L	40/60	Bushy	0.70	63
HEBPIS	Hebe pinguifolia 'Sutherlandii'	10L	30/40	Bushy	0.70	63
LAVANHI	Lavandula angustifolia 'Hidcote'	10L	30/40	Bushy	0.70	63
LONNIMG	Lonicera nitida 'May Green'	10L	40/60	Bushy	0.70	63

All shrubs to be planted in accordance with the implementation and maintenance guidelines. No shrub species, size or location should be altered without prior approval from the Landscape Architect. Individual species to be planted in groups of 3-7. Lower growing species to be planted at the front of the shrub bed. Low growing species marked with * above.

Woodville Road, Hartshorne, Swadlincote, Derbyshire

Detailed Soft Landscape Proposals (Sheet 4 of 7)

Drawing Ref: P17-0413_104D

Client: Bellway Homes East Midlands

Date : 27/07/2018
Drawn by : AL/EW
Checked by : AP
Scale : 1 : 250 @ A1

Revisions:
B - (07/06/2019 WM) Updated footpath surface materials.
C - (24/01/2019 EW) Updated to council comments.
B - (26/11/2018 EW) Updated proposals to latest layout rev R.
A - (04/10/2018 AL) Updated proposals to revised site layout.
First Issue- 27/07/2018/ AL

NORTH

Pegasus Design

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