Betula nigra	River birch	Multi-Stem	Multi Stem :C	::RB	Counted
Betula albosinensis 'Fascination'	Chinese Red Birch	16-18cm	Standard :Cle	ear Stem 175-200 :RB	Counted
Betula albosinensis		16-18cm	Standard :Cle	ear Stem 175-200 :RB	Counted
Amelanchier lamarckii	Snowy Mespilus		Multi Stem :B	ranched :C	Counted
Acer x freemanii 'Autumn Blaze'	Red Acer	12-14cm	RB :Standard		Counted
Acer campestre 'Queen Elizabeth'	Field Maple 'Queen Elizabeth'	12-14cm	RB :Standard	:Clear Stem 125-150cm	Counted
Platanus x hispaicus	London Plane	20-25cm	RB :Standard	;Clear Stem 200cm	Counted
SHRUBS					
Species	Common Name	Height	Pot Size	Root Condition	Density
Hebe rakaiensis	Shrubby Veronica		5L		5/m²
Hydrangea arborescens 'Annabelle'	Sevenbark 'Annabelle'		5L		5/m²
Viburnum opulus	European cranberrybush		5L		5/m²
Sarcococca confusa	Christmas box	40-60cm	C5	Bushy	5/m²
Cornus sanguinea 'Midwinter Fire'	Dogwood	60-80cm	C10	Bushy	5/m²
Viburnum davidii	Viburnum	40-60cm	C15	Bushy :6 brks	5/m²
HEDGING					

Density

Counted

Vinca minor

Sarcococca hookeriana var. humilis

Species	Common Name	Height	Pot Size	Root Condition	Density
llex aquifolium	Common Holly	90-120cm		Instant Trough :Finished Height 1m	1/m
Carpinus betulus	Common Hornbeam	100cm	As Supplied	Bushy: Instant Hedge :Finished Height 1.2m	1/m
Taxus baccata	Common Yew	60-90cm	RB	Bushy :4 brks :Finished Height 1m	3/m
NATIVE SUCCESSIONAL BULB MIX					
Species	Abbreviation	Percentage Contribution	Specification		Density
Anemone nemorosa		5%	Grade 6/7		7/m²
Crocus mix	CRO	20%	Grade 6/7		7/m²
Galanthus nivalis		25%	Grade 6/7		7/m²

Galanthus nivalis		25%	Grade 6/7	7/m²
Hyacinthoides non scripta		20%	Grade 6/7	7/m²
Narcissus 'February Gold'		15%	Grade 6/7	7/m²
Narcissus 'Tete a Tete'	NARTT	15%	Grade 6/7	7/m²
SHADE MIX 1				
Species	Abbreviation	Percentage	Specification	Density
		Contribution		
Anemone hybrida 'Honorine Jobert'	AHS	5%	Full Pot	7/m²
Anemone x hybrida 'Konigin Charlotte'		5%	Full Pot	7/m²
Anthriscus sylvestris 'Ravenswing'	ANTSY	5%	Full Pot	7/m²
Aquilegia vulgaris var. stellata 'White Barlow'		5%	Full Pot	7/m²
Asplenium scolopendrium		5%	Full Pot	7/m²
Bergenia 'Bressingham White'	B'BW'	9%	Full Pot	7/m²
Brunnera macr. 'Jack Frost'		5%	Full Pot	7/m²
Dryopteris affinis		7%	Full Pot	7/m²
Geranium phaeum ' Album'		10%	Full Pot	7/m²
Geranium phaeum ' Album'		8%	Full Pot	7/m²
Hosta 'Royal Standard'	HOSRS	7%	Full Pot	7/m²
Liriope muscari 'Monroe White'		10%	Full Pot	7/m²
Lonicera nitida 'May Green'	LONNIMG	5%	Bushy:C	7/m²
Luzula nivea		9%	Full Pot	7/m²
Sarcococca confusa	SARCO	5%	Bushy :C	7/m²
SHADE MIX 2				
Species	Abbreviation	Percentage Contribution	Specification	Density
Asplenium scolopendrium	ASPSC	10%	Full Pot	7/m²
Cornus canadensis	CORCA	10%	Bushy :Full Pot	7/m²
Dryopteris affinis		10%	Full Pot	7/m²
Epimedium rubrum	EPIRU	5%	Full Pot	7/m²
Hakonechloa macra		15%	Full Pot	7/m²
Helleborus niger	HELNI	5%	Full Pot	7/m²

	Contribution	Оросинскиот	Denoity
ASPSC		Full Dot	7/m²
			7/111 ⁻ 7/m²
CORCA		•	7/111 7/m²
EDIDLI			7/III ⁻ 7/m²
EPIRU			7/III ⁻ 7/m²
LIEL NII			7/m²
HELLOR			7/m²
1:			7/m²
			7/m²
		,	7/m²
VIBOP	5%	Busny :Branched :C	7/m²
Abbreviation	•	Specification	Density
ΔΝΤΟΥ		Full Pot	7/m²
			7/m²
11000			7/m²
R'RW'			7/m²
			7/m²
BIOLO			7/m²
			7/m²
			7/111 7/m²
			7/m²
HOSBS			7/111 7/m²
HOOKO			7/111 7/m²
LONNIMG			7/111 7/m²
LOMMING		•	7/111 7/m²
	5%	Full Pot	7/111 ⁻ 7/m²
	i 2 /0	LUILEUL	77111
	ASPSC CORCA EPIRU HELNI HELLOR Lni SARHOHU VIBOP Abbreviation ANTSY rlow' B'BW' DIGLU HOSRS LONNIMG	Contribution	Contribution

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SUN MIX 1				
Species	Abbreviation	Percentage Contribution	Specification	Density
Achillea millefolium 'Cerise Queen' Actaea simplex Atropurpurea Group	ACHMICQ	10% 3%	Full Pot Full Pot	7/m² 7/m²
'Brunette' Artemisia 'Powis Castle'	APCa	9%	Full Pot	7/m²
Astrantia major 'Ruby Wedding'	ASTMARUW	7%	Full Pot	7/m²
Calamagrostis x arutiflora 'Karl Foerster'		7%	Full Pot	7/m²
Centaurea nigra Geranium phaeum		9% 10%	Full Pot Full Pot	7/m² 7/m²
Hylotelephium 'Matrona'		7%	Full Pot	7/m²
Lupinus 'Gallery White'	LUPGW	5%	Full Pot	7/m²
Nepeta racemosa 'Walkers Low' Pennisetum alopecuroides 'Hameln'	NEPRAWAL	10% 10%	Full Pot Full Pot	7/m² 7/m²
Potentilla fruticosa 'Pink Charm'	POTFRPIC	5%	C :Bushy	7/m²
Stachys byzantina 'Silver Carpet'	SbSC	5% 3%	Full Pot Full Pot	7/m² 7/m²
Stipa gigantea		370	ruii Fot	77111
SUN MIX 2 Species	Abbreviation	Percentage	Specification	Density
	Abbieviation	Contribution	Орестоаноп	Deligity
Achillea millefolium 'Cerise Queen'	ACHMICQ	10%	Full Pot	7/m²
Allium afl. 'Purple Sensation' Echinacea purpurea	ECHPU	5% 15%	Full Pot Full Pot	7/m² 7/m²
Hebe rakaiensis	HEBRA	3%	Bushy :C	7/m²
Hemerocallis 'Summer Wine'	HEMSW	5%	Full Pot	7/m²
Lavandula angustifolia 'Hidcote' Nepeta racemosa 'Walkers Low'	LaH NEPRAWAL	7% 10%	C :Bushy Full Pot	7/m² 7/m²
Philadelphus 'Manteau d'Hermine'	PHIDHEA	3%	Bushy:C	7/m²
Phlomis russeliana	PHLRU	10%	Full Pot	7/m²
Spiraea nipponica 'June Bride' Stachys byzantina 'Silver Carpet'	SPINIJB SbSC	3% 10%	Bushy :C Full Pot	7/m² 7/m²
Stipa tenuissima		10%	Full Pot	7/m²
Verbena bonariensis	VERBO	9%	Full Pot	7/m²
SUN MIX 3				
Species	Abbreviation	Percentage	Specification	Density
Acanthus mollis 'Niger'	ACAMONI	Contribution 3%	Full Pot	7/m²
Achillea millefolium 'Cerise Queen'	ACHMICQ	10%	Full Pot	7/m²
Actaea simplex Atropurpurea Group		7%	Full Pot	7/m²
'Brunette' Artemisia 'Powis Castle'	APCa	9%	Full Pot	7/m²
Astrantia major 'Ruby Wedding'	ASTMARUW	7%	Full Pot	7/m²
Calamintha nepeta nepeta 'Dwarf'	CALNENED	10%	Full Pot	7/m²
Centaurea nigra Cistus purpureus 'Alan Fradd'	CISPUAF	9% 5%	Full Pot C :Bushy	7/m² 7/m²
Geranium phaeum 'Samobor'	CICI G/ti	10%	Full Pot	7/m²
Hylotelephium 'Matrona'		7%	Full Pot	7/m²
Nepeta racemosa 'Walkers Low' Pennisetum alopecuroides 'Hameln'	NEPRAWAL	10% 10%	Full Pot Full Pot	7/m² 7/m²
Stipa gigantea		3%	Full Pot	7/m²
·				
Stipa gigantea	Abbreviation	3% Percentage		
Stipa gigantea SUN-SHADE MIX Species		3% Percentage Contribution	Full Pot Specification	7/m² Density
Stipa gigantea SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation'	Abbreviation ACHCR	3% Percentage Contribution 5% 7%	Full Pot Specification Full Pot Full Pot	7/m² Density 7/m² 7/m²
Stipa gigantea SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba'		Percentage Contribution 5% 7% 5%	Full Pot Specification Full Pot Full Pot Full Pot Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m²
Stipa gigantea SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold'	ACHCR	Percentage Contribution 5% 7% 5% 7%	Full Pot Specification Full Pot Full Pot Full Pot Full Pot Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m²
Stipa gigantea SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata'		Percentage Contribution 5% 7% 5% 7% 5% 5% 5%	Full Pot Specification Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m²
Stipa gigantea SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix	ACHCR	3% Percentage Contribution 5% 7% 5% 7% 5% 5% 5% 5%	Full Pot Specification Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m²
Stipa gigantea SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata'	ACHCR CARPE Ear	Percentage Contribution 5% 7% 5% 7% 5% 5% 5%	Full Pot Specification Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m²
Stipa gigantea SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix Euphorbia amygdaloides robbiae Galium odoratum Geranium pratense	ACHCR	3% Percentage Contribution 5% 7% 5% 5% 5% 5% 5% 5% 7% 5% 7%	Full Pot Specification Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m
Stipa gigantea SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix Euphorbia amygdaloides robbiae Galium odoratum Geranium pratense Hedera helix	ACHCR CARPE Ear GALOD GERPR	3% Percentage Contribution 5% 7% 5% 7% 5% 5% 5% 7% 5% 7% 5% 7% 5% 7% 5%	Full Pot Specification Full Pot	7/m² Density 7/m²
Stipa gigantea SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix Euphorbia amygdaloides robbiae Galium odoratum Geranium pratense Hedera helix Lamium maculatum 'Beacon Silver'	ACHCR CARPE Ear GALOD	3% Percentage Contribution 5% 7% 5% 7% 5% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7%	Full Pot Specification Full Pot	7/m² Density 7/m²
Stipa gigantea SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix Euphorbia amygdaloides robbiae Galium odoratum Geranium pratense Hedera helix Lamium maculatum 'Beacon Silver' Leucanthemum vulgare Liriope muscari	ACHCR CARPE Ear GALOD GERPR	3% Percentage Contribution 5% 7% 5% 5% 5% 5% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7%	Full Pot Specification Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m
Stipa gigantea SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix Euphorbia amygdaloides robbiae Galium odoratum Geranium pratense Hedera helix Lamium maculatum 'Beacon Silver' Leucanthemum vulgare Liriope muscari Ophiopogon planiscapus 'Nigrescens'	ACHCR CARPE Ear GALOD GERPR LAMMABS	3% Percentage Contribution 5% 7% 5% 5% 5% 5% 5% 7% 5% 7% 5% 7% 5% 7% 4%	Full Pot Specification Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m
Stipa gigantea SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix Euphorbia amygdaloides robbiae Galium odoratum Geranium pratense Hedera helix Lamium maculatum 'Beacon Silver' Leucanthemum vulgare Liriope muscari	ACHCR CARPE Ear GALOD GERPR LAMMABS	3% Percentage Contribution 5% 7% 5% 5% 5% 5% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7%	Full Pot Specification Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m
SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix Euphorbia amygdaloides robbiae Galium odoratum Geranium pratense Hedera helix Lamium maculatum 'Beacon Silver' Leucanthemum vulgare Liriope muscari Ophiopogon planiscapus 'Nigrescens' Origanum vulgare Sanguisorba officinalis	ACHCR CARPE Ear GALOD GERPR LAMMABS	3% Percentage Contribution 5% 7% 5% 5% 5% 5% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7% 5%	Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m
Stipa gigantea SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix Euphorbia amygdaloides robbiae Galium odoratum Geranium pratense Hedera helix Lamium maculatum 'Beacon Silver' Leucanthemum vulgare Liriope muscari Ophiopogon planiscapus 'Nigrescens' Origanum vulgare	ACHCR CARPE Ear GALOD GERPR LAMMABS	3% Percentage Contribution 5% 7% 5% 7% 5% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7% 7	Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m
Stipa gigantea SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix Euphorbia amygdaloides robbiae Galium odoratum Geranium pratense Hedera helix Lamium maculatum 'Beacon Silver' Leucanthemum vulgare Liriope muscari Ophiopogon planiscapus 'Nigrescens' Origanum vulgare Sanguisorba officinalis Podium - Mix 1 Species	ACHCR CARPE Ear GALOD GERPR LAMMABS LIRMU	3% Percentage Contribution 5% 7% 5% 5% 5% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7% 7	Full Pot Specification Full Pot	7/m² Density 7/m²
SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix Euphorbia amygdaloides robbiae Galium odoratum Geranium pratense Hedera helix Lamium maculatum 'Beacon Silver' Leucanthemum vulgare Liriope muscari Ophiopogon planiscapus 'Nigrescens' Origanum vulgare Sanguisorba officinalis Podium - Mix 1 Species Aster 'Little Calow'	CARPE Ear GALOD GERPR LAMMABS LIRMU Abbreviation	3% Percentage Contribution 5% 7% 5% 7% 5% 5% 7% 5% 7% 5% 7% 5% 7% 5% 7% 7	Full Pot Specification Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m
SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix Euphorbia amygdaloides robbiae Galium odoratum Geranium pratense Hedera helix Lamium maculatum 'Beacon Silver' Leucanthemum vulgare Liriope muscari Ophiopogon planiscapus 'Nigrescens' Origanum vulgare Sanguisorba officinalis Podium - Mix 1 Species Aster 'Little Calow' Festuca glauca 'Elijah Blue' Hebe 'Midsummer Beauty'	ACHCR CARPE Ear GALOD GERPR LAMMABS LIRMU	Percentage Contribution 5% 7% 5% 5% 5% 5% 5% 7% 5% 7% 5% 7% 5% 7% 7	Full Pot Specification Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m
SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix Euphorbia amygdaloides robbiae Galium odoratum Geranium pratense Hedera helix Lamium maculatum 'Beacon Silver' Leucanthemum vulgare Liriope muscari Ophiopogon planiscapus 'Nigrescens' Origanum vulgare Sanguisorba officinalis Podium - Mix 1 Species Aster 'Little Calow' Festuca glauca 'Elijah Blue' Hebe 'Midsummer Beauty' Hemerocallis citrina	ACHCR CARPE Ear GALOD GERPR LAMMABS LIRMU Abbreviation	3% Percentage Contribution 5% 7% 5% 5% 5% 5% 7% 5% 7% 5% 7% 5% 7% 7	Full Pot Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m
SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix Euphorbia amygdaloides robbiae Galium odoratum Geranium pratense Hedera helix Lamium maculatum 'Beacon Silver' Leucanthemum vulgare Liriope muscari Ophiopogon planiscapus 'Nigrescens' Origanum vulgare Sanguisorba officinalis Podium - Mix 1 Species Aster 'Little Calow' Festuca glauca 'Elijah Blue' Hebe 'Midsummer Beauty'	ACHCR CARPE Ear GALOD GERPR LAMMABS LIRMU Abbreviation	Percentage Contribution 5% 7% 5% 5% 5% 5% 5% 7% 5% 7% 5% 7% 5% 7% 7	Full Pot Specification Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m
Stipa gigantea SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix Euphorbia amygdaloides robbiae Galium odoratum Geranium pratense Hedera helix Lamium maculatum 'Beacon Silver' Leucanthemum vulgare Liriope muscari Ophiopogon planiscapus 'Nigrescens' Origanum vulgare Sanguisorba officinalis Podium - Mix 1 Species Aster 'Little Calow' Festuca glauca 'Elijah Blue' Hebe 'Midsummer Beauty' Hemerocallis citrina Miscanthus sinensis 'Gracillimus' Miscanthus sinensis 'Kleine Silberspinne' Ophiopogon planiscapus 'Nigrescens'	ACHCR CARPE Ear GALOD GERPR LAMMABS LIRMU Abbreviation Fgeb HEBBEAA MISSIKS	3% Percentage Contribution 5% 7% 5% 5% 5% 5% 7% 5% 7% 5% 7% 5% 7% 7	Full Pot Specification Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m
SUN-SHADE MIX Species Achillea 'Credo' Allium 'Purple Sensation' Astrantia major 'Alba' Carex oshimensis 'Evergold' Carex pendula Convallaria majalis 'Albostriata' Dryopteris filix Euphorbia amygdaloides robbiae Galium odoratum Geranium pratense Hedera helix Lamium maculatum 'Beacon Silver' Leucanthemum vulgare Liriope muscari Ophiopogon planiscapus 'Nigrescens' Origanum vulgare Sanguisorba officinalis Podium - Mix 1 Species Aster 'Little Calow' Festuca glauca 'Elijah Blue' Hebe 'Midsummer Beauty' Hemerocallis citrina Miscanthus sinensis 'Gracillimus' Miscanthus sinensis 'Kleine Silberspinne' Ophiopogon planiscapus 'Nigrescens' Pennisetum alopecuroides 'Hameln'	ACHCR CARPE Ear GALOD GERPR LAMMABS LIRMU Abbreviation Fgeb HEBBEAA	3% Percentage Contribution 5% 7% 5% 5% 5% 5% 7% 5% 7% 5% 7% 5% 7% 6% 7% 5% 7% 7% 4% 5% 7% Percentage Contribution 10% 15% 7% 5% 10% 7% 10% 4%	Full Pot Specification Full Pot	7/m² Density 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m² 7/m
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SOFT SPECIFICATION NOTES

Proposed Tree Planting

Nursery Stock and Selection

All trees and planting are to be selected and tagged by the landscape architect prior to any stock being delivered to site. All planting should comply with the requirements specified in BS 3936:1992 'Nursery Stock' (Part One). All nursery stock and trees are to be free of pest and diseases prior to being delivered to site. All

delivered stock is to be inspected by the landscape architect prior to any planting being carried out.

The Landscape architect reserves the right to reject trees and nursery stock that do not meet specifications as set out in the requirements and guidelines in BS 3936:1992 or in accordance with the landscape architects drawings. If a particular defect or substandard element can be corrected easily, appropriate remedies shall be applied and agreed with the landscape architect. If destructive inspection of a root ball is to be carried out, agreement should be in place prior as to the time and place of inspection. Inspection of shrub roots in containers or rootball can be carried out on site if required.

Tree Handling

It is recommended that companies that do not have experience with handling large trees or the required equipment to do so seek advice from the landscape architect or tree supplier. Furthermore, specialist hauliers are to be used who will have the correct lifting equipment to deal with unloading large trees. The landscape contractor must follow the industry guidance method for handling trees. Below are

recommended industry standards; Dormant trees sizes of 12-16cmg:

These can be lifted and unloaded using a root hook and hoist. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading maintaining the lifting

weight on the root hooks. Dormant trees sizes of 18-20cmg - 25-30cmg:

These can be lifted and unloaded using a 3 tonne sling in combination with a chain and root hooks. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading.

Tree Planting

The tree supplier is to be approved by landscape architect prior to any ordering of stock. All trees are to be planted in the first available planting season after construction as root balled stock unless otherwise specified and agreed with the client. All tree pits are to be excavated 24 hours prior to delivery to reduce the time the rootball is out of the ground. All tree pits are to be excavated under favourable weather conditions to avoid deterioration of the soil structure and glazing. All excavations are to be carried out using a toothed bucket ensuring tree pit walls are not glazed, the walls of the tree pit can also be loosened with hand held tools. Tree pit dimensions are subject to soil conditions, soil report provided by agronomist and rootball size. Tree pits can never be excavated too wide in an unrestricted space (open ground), however they can be too deep. All trees are to be planted at the correct height which is the same depth as the tree was growing on the nursery. The root collar must remain visible. Tree pit sizes are to be agreed with landscape architect prior to excavations. All tree pits are to be inspected by the landscape architect prior to planting. All tree pits are to have suitable irrigation pipe and end cap and aeration tubes if required (aeration tubes tend to be required for trees planted in a hard landscape environment). They are only required for the first two years after which they are superfluous. All irrigation pipes are to be placed as high as possible not at the base of the rootball. The tree would also benefit from an earth reservoir around the rootball on the surface to aid watering. The reservoir is best backfilled with bark mulch to avoid soil glazing on the surface.

Note: Trees may sink after planting due to soil settlement. With sandy soils generally there will be a settlement of 10% and clay soils 20%, this will need to be considered by the landscape contractor when planting and therefore the tree may need to be planted slightly higher to accommodate soil settlement.

Note: Never excavate deeper than the highest water table to ensure organic matter does not come in contact with groundwater resulting in anaerobic digestion within the soil.

All hessian and wire supports around the rootball are to remain in place when planting (in some case it may be required to loosen the hessian and wire). The hessian will quickly decompose. The wire will oxidize and also disappear in the soil eventually.

Trees planted within hard landscape areas are to have tree grilles and guards where specified. Subterraneal cellular product is to be used to ensure the tree has a minimum of 9m3 growing area. Type and manufacture is to be agreed with the client and landscape architect prior to installation. The landscape architect is to inspect all tree pits prior to planting.

Trees are to be supported either by high anchoring, low anchoring or underground anchoring systems. The type of anchoring system is to be agreed with the landscape architect and detailed within the specification of works. For trees that are <10-12cmg use 1no untreated softwood stake at min 10cm diameter driven into the ground at least 1m depth (30cm of which must be in undisturbed ground), the stake is to be placed on the side of the prevailing wind. Trees >10-12cmg use 2no untreated softwood stakes at min 10cm diameter driven into the ground at least 1m depth with horizontal bracing bar. Trees >25-30cmg use 3no stakes in a triangle around the tree (1.4m above ground level) with horizontal bracing bars, tree bands are to be secured to the

posts with galvanised nails. Underground anchoring systems are to be used for large compact rootballs or trees within hard landscape with tree grilles to BS 4043: 1989' Recommendations for Transplanting Root-Balled Trees'. The type of anchoring system is to be agreed with the landscape architect. Biodegradable anchoring straps are to be used

to ensure the straps do not grow into the trunk. Note: There are benefits to using low level anchoring as field trials have demonstrated that the tree becomes independent in the ground guicker as a result of the wind rocking the tree that encourages root ground. However, this method is not recommended in exposed conditions or coastal locations due to a greater risk of

the trunk breaking. Ties and stakes are to be checked and adjusted every six months or after periods of strong wind and rain. All topsoil is to conform to BS 3882:2015 'Multipurpose' or similar approved by an agronomist. The tree pit

shall be backfilled with previously prepared topsoil excavated from the pit and additional topsoil as required. All backfilled material is to include an organic slow release fertilizer to ensure there is no adverse affect on soil organisms (Vitax Q4HN) or similar approved at a ratio of 10 -7.5 -10.2 + TE. The second application to be made 10-16 weeks after planting depending on soil type and weather conditions.

Tree pit root barrier are to be installed to all trees within 3m of any underground service routes or within 2.0m of kerb lines & hard surfaces & building foundations. Type of root barrier material is to be agreed with the landscape architect. The landscape contractor is to confirm locations of all services prior to implementation of trees. Prior to installation NJUG specification and requirements are to be referred too.

Guidance for Tree Pit Sizes within Soft Landscape Areas

Final tree pit size will vary dependent on size of rootball, tree stock and soil type. Below are general guidance sizes only. The landscape contractor is to speak to the grower to obtain exact sizes prior to delivery. Landscape Architect to inspect tree pits prior to planting.

Tree pit size guidelines:

Tree size Rootball Size Tree pit size (length, width, depth) 14-16 cmg 50x50cm 80x80x65cm 16-18 cmg 50x50cm 80x80x65cm 18-20 cmg 80x80x75cm 60x60cm 90x90x75cm 20-25 cmg 70x60cm

Tree aftercare and pruning

 $7/m^2$

 $7/m^2$

When a tree is lifted/harvested it will lose a percentage of it's root system. As a result the roots are unable to supply the crown with the water demand being placed on the root system which can cause stress to the tree. As a result the tree will respond by reducing the amount of foliage, in some cases when the water storage is great the tree will shed wood from the crown. Watering the tree is important in the first two years after transplanting. In very hot conditions the canopy can dry out even when the rootball is moist simply because there is not enough root development yet. Therefore, the only solution is to reduce the canopy volume to reduce the stress.

All pruning is to be done by removing first and second wood only, all pruning works are to be carried out by appropriately trained landscape contractors. It is recommended that hessian is placed around the tree stems after planting to prevent the overheating of the trunks.

The flow of water within the bark will normally prevent this, however, after planting less water is transplanted and as a result the trunk is at risk of sunburn. The setting sun will cause the most potential damage. Most of the damage will be visible on the western side of the tree. Trees with smooth bark are more vulnerable to sunburn than trees with rough bark

Note: This is to only be done as a temporary measure as the tree is establishing, after which the hessian is to

Monitoring of the trees is to be carried out during the rectification period and as part of the long term management. The following points are to be considered and monitored;

· Watering, trees will require watering for the first two years after planting, after which they will generally look after themselves. The number of times will depend on location, weather conditions and growing season. Therefore, as the tree is a growing organisum the required experience and knowledge will determine the number of times the tree is watered to ensure establishment. It is better to give the tree a lot of water once a week rather than water every day as this will encourage root development and prevent the tree becoming "lazy". Over watering will push oxygen away from the root system preventing root development.

· Soil condition, these can be carried out by a specialist to monitor the oxygen levels (that should ideally be 18-21%, 16-18% will be sufficient levels, 12-16% will be poor levels <5% shows acute root mortality). Soil moisture levels both within the rootball and surrounding ground to also be monitored.

· Soil compaction, traffic over planted areas or areas to be planted are to be limited or ideally avoided completely. When soil compaction is higher than 2.5MPa root development will not be possible. - - Canopy, monitor leaf development, size, colour and the amount of foliage that is within the crown.

Proposed Ornamental Shrub / Perennial Planting

Length of new growth and bud development and size of buds.

• To be planted in, but not exceed 300mm depth approved topsoil to BS 3882: 2015 'Multipurpose' in the first available planting season after construction.

- All shrubs are to be planted as container stock unless otherwise specified (5 or 10 litre), all stock is to be well rooted into the container but not pot bound.
- All shrubs are to be planted with a slow release organic fertilizer (vitax or similar approved) and backfilled with a mixture of excavated top soil and compost (not peat based). A minimum of 50 mm approved ornamental grade bark mulch is to be applied to planting areas unless stated otherwise.

Proposed Hedge Planting

- To be planted in, but not exceed 300mm depth approved topsoil to BS 3882: 2015 'Multipurpose' in the first available planting season after construction.
- All shrubs are to be planted as container stock unless otherwise specified (5litre), all stock is to be well rooted into the container. All hedge are to be planted in double staggered rows.
- All shrubs are to be planted with a slow release organic fertilizer (vitax or similar approved) and
- backfilled with a mixture of excavated top soil and compost (not peat based). A minimum of 50 mm approved ornamental grade bark mulch is to be applied to planting areas unless stated otherwise.

All planting and landscape operations should comply with the requirements specified in BS 3936-4:2007 'Nursery Stock' (Part One) and BS4428:1989 'Code of Practice for General Landscape Operations'

- (excluding hard surfaces) All topsoil and testing to conform to BS 3882: 2015 'Specification for Topsoil and Requirements for Use'. All topsoil used for planting to be tested by an approved Topsoil Analyst and any required amelioration or
- soil improvements to be carried out in line with Analyst's report • All fertilizers are to be applied or supervised by qualified staff to avoid the action of plasmolysis.
- Nurseries to provide protocols for ensuring that plant stock is free of invasive species.
- No planting is to be carried out when the site is covered by frost.
- Irrigation of plant material to be carried out during periods of drought will be required to ensure successful
- All new planting to be protected from mammal grazing by individual guards or stock proof fencing.
- If planting is to be carried out during the growing season, all bareroot / rootballed plant stock is to be
- substituted with containerised stock. Specification to be agreed with Landscape Architect prior to ordering All planting within gas main and trunk sewer easement is subject to the approval of the utility provider.

Maintenance Notes - Overview

- Refer to landscape and open space strategy for programme of operations. Detailed landscape maintenance and management plans for each development phase to be submitted to the LA for approval.
- All landscaped areas are to be maintained for 24 months following practical completion of the phase or until the plants have established, all tree planting to be maintained for 36 months.
- All planted areas to be kept clear of weeds at all times throughout maintenance period.
- Planted areas to be forked through regularly to keep soil loose and aerated.
- All litter and debris to be removed from landscaped areas and carted off site.
- Plants pruned as instructed by the Landscape Architect to promote healthy growth and to remove dead and diseased wood.
- Watering as required to maintain healthy growth.
- Any species that dies or fails to establish in the first five years should be replaced by an identical species, or alternative species as agreed with LPA.

• Existing levels to be preserved around existing trees and vegetation to be retained.

• Existing trees and vegetation to be retained are to be protected during construction to BS 5837:2012 Trees in Relation to Design, Demolition and Conservation Recommendations'.

- Any necessary tree works to be carried out by an approved tree surgeon to BS 3998:2010 'Recommendations for Tree Works'
- Final location and tree species selection will be subject to service report and foundation depths to be provided by engineers.
- Edge treatment to deter casual parking to include straight / bullnose kerb

- Slope profiles to the open space areas are to be as slack as possible considering access for all. • Locations of lighting columns have been co-ordinated with the latest drawn information from WSP. Appointed contractor will need to check that this is the latest information prior to commencement of works
- on site. Final location subject to lighting engineers proposals and technical design. Trees locations have been located in co-ordination with the above and below ground features

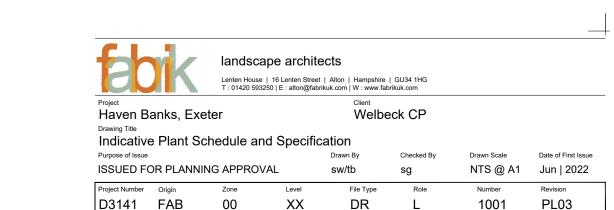
- Refer to Engineers drawings and specifications for service runs, above ground foul drainage, external lighting, levels, surface water drainage strategy and below ground drainage runs.
- Adopted highway boundary lines as per others drawings

engineers as built drawings prior to tree planting.

- Contractors to ensure they are working to the latest British Standards as required. Final placement to tree subject to underground service locations. Landscape contractor to refer to

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Refer to fabrik drawings D3141-00-XX-DR-L-1001 to 1xxx for Landscape General Arrangement Drawings



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