



061 MAPLE HOUSE

TREE & PLANTING PLANS, PLANTING PALETTES, SCHEDULES





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**Document to be read
in conjunction with
ONB drawings and
specification.**

Job No: 061
Job Title: Maple House
Report No: Ro_06
Report Title: Trees and Planting
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Size: A3
Client: Lazari Properties Ltd
Compiled by: EC / VL
Checked by: VL / BS

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1.1 PLANTING PRINCIPLES

The tree and planting strategy aims to transform the courtyard into a lush, green space - a secret forest in the heart of London, with shady canopies, abundant ground cover and forest glades.

Different zones with different tree and plant species give definition to the space.

Tree species are chosen for their seasonality, creating a dynamic space varying in colour, form and texture throughout the year. The two tree mixes are:

- Maple and flowering trees (maples, hazel, hornbeam);
- Pine and birch forest (Scots pine, silver birch, Himalayan birch).

Evergreen plants are chosen to provide year-round ground cover, with ferns, shrubs and grasses giving an abundance of textures, fragrances and shades of green. Planting responds to the different tree mixes:

- Mix A: Maple forest
- Mix B: Pine and Birch Forest;
- Mix C: Forest Floor.



2.1 TREE PLAN

Trees

PMW= projected max weight
q= quantity

T1

Psy

Pinus sylvester / Scots Pine
30 cm girth, 6 m tall at delivery
Rootball 1000diax700mm high
PMW 1000kg, q4

Aru

Acer rubrum / Red Maple
30 cm girth, 6 m tall at delivery
Rootball 1000diax700mm high
PMW 850kg, q2

T2

Bpe

Betula pendula / Silver Birch
20-25 cm girth, 5 m tall at delivery
Rootball 600diax700mm high
PMW 850kg, q8

ButM

Betula utilis multistem / Hymalayan Birch
20-25 cm girth, 5 m tall at delivery
Rootball 1400diax700mm high
PMW 850kg, q6

Acp

Acer cappadocicum aureum
Golden Cappadocian Maple
20-25 cm girth, 5 m tall at delivery
Rootball 600diax700mm high
PMW 850kg, q12

Aca

Acer campestre / Field Maple
20-25 cm girth, 5 m tall at delivery
Rootball 600diax700mm high
PMW 850kg, q6

T3

Bpe

Betula pendula / Silver Birch
16-18 cm girth, 3 m tall at delivery
Rootball 700diax500mm high
PMW 420kg, q18

ButM

Betula utilis multistem / Hymalayan Birch
16-18 cm girth, 3 m tall at delivery
Rootball 700diax500mm high
PMW 420kg, q14

Cbe

Carpinus betulus single stem and multistem
Hombeam
16-18 cm girth, 3 m tall at delivery
Rootball 700diax500mm high
CbeS= single stem, q5
CbeM= multi stem, q8
PMW 420kg

T4

AfM

Acer fr. Autumn Blaze multistem
Freeman Maple
16-18 cm girth, 3 m tall at delivery
Rootball 700diax500mm high
PMW 300kg, q15

CavM

Corylus avellana multistem
Hazel
16-18 cm girth, 3 m tall at delivery
Rootball 700diax500mm high
PMW 300kg, q12

Whip tree or group of whip tree

Rootball

Soil levels and lower planting.
Refer to ONB 061-104 and specs

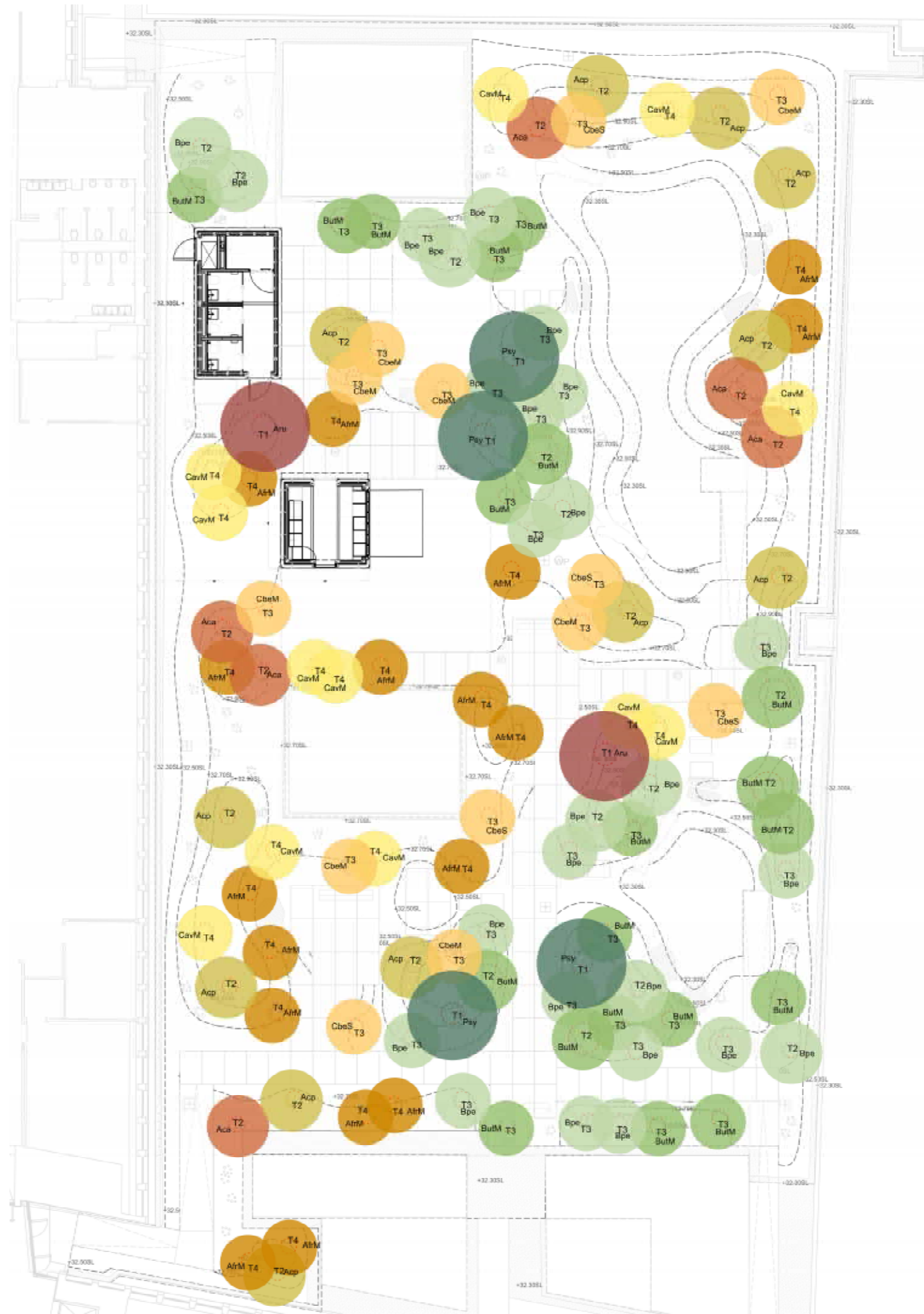
250 mm soil depth, ground cover mix of mulch
with scattering of ground cover
and bulb planting

400 mm soil depth
with woodland planting mix

600 mm soil depth
with woodland planting mix

800 mm soil depth
with woodland planting mix

1000 mm soil depth
with woodland planting mix



2.2 TREE SCHEDULE

Tree size	Species	Common name	Girth (cm)	Height (m)	Rootball size	Unit number
T1	<i>Acer rubrum</i>	Red maple	30	6m tall at delivery	1000dix700mm high	2
T1	<i>Pinus sylvestris</i>	Scots pine	30	6m tall at delivery	1000dix700mm high	4
T2	<i>Acer cappadocicum aureum</i>	Golden Cappadocian maple	20-25	5m tall at delivery	600dix700mm high	12
T2	<i>Acer campestre 'huibers elegant'</i>	Field maple 'huibers elegant'	20-25	5m tall at delivery	600dix700mm high	6
T2	<i>Betula pendula</i>	Silver birch	20-25	5m tall at delivery	600dix700mm high	8
T2	<i>Betula utilis jacquemontii (multi stem)</i>	Himalayan birch (multi stem)	20-25	5m tall at delivery	1400dix700mm high	6
T3	<i>Betula pendula</i>	Silver birch	16-18	3m tall at delivery	700dix500mm high	14
T3	<i>Carpinus betulus (single stem)</i>	Hornbeam (single stem)	16-18	3m tall at delivery	700dix500mm high	5
T3	<i>Carpinus betulus (multi stem)</i>	Hornbeam (multi stem)	16-18	3m tall at delivery	700dix500mm high	8
T4	<i>Acer freemanii 'Autumn blaze' (multi stem)</i>	Freeman maple 'Autumn blaze' (multi stem)	16-18	3m tall at delivery	700dix500mm high	15
T4	<i>Corylus avellana contorta (multi stem)</i>	Corkscrew hazel (multi stem)	16-18	3m tall at delivery	700dix500mm high	12

Total number92

NOTE - TREE SUPPLY:

- All tree stock to be approved by landscape architect before delivery to site
- Contractor to supply photos of stock from which to meet specification from nursery for initial sign off
- Landscape architect to visit nursery to approve stock. (Contractor to arrange and cover costs).
- Landscape architect to tag specific trees prior to order
- Tagged tree stock to be checked on site by landscape architect on delivery
- Any tree stock delivered which does not meet specification will be rejected and replaced with stock which meets specification

2.3 TREE PALETTE



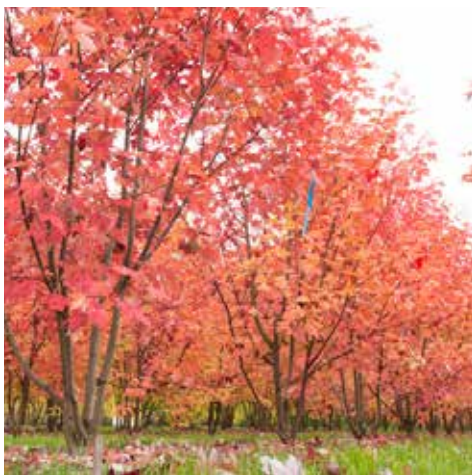
Cappadocian maple
Acer cappadocicum

Medium to large
max height 20m
max spread 5m



Red maple
Acer rubrum

Medium to large
max height 20m
max spread 10m



Freeman maple (multi stem)
Acer freemanii

Small
max height 8m
max spread 5m



Field maple
Acer campestre 'huibers elegant'

Small to medium
max height 12m
max spread 4m



Corkscrew hazel
Corylus avellana contorta

Small to medium
max height 7m
max spread 4m



Hornbeam (multi stem)
Carpinus betulus

Medium to large
max height 12m
max spread 8m

	SPRING			SUMMER			AUTUMN			WINTER		
	M	A	M	J	J	A	S	O	N	D	J	F
Red maple												
Scots pine												
Golden Cappadocian maple												
Field maple 'huibers elegant'												
Silver birch												
Himalayan birch												
Hornbeam												
Freeman maple 'Autumn blaze'												
Corkscrew hazel												



Silver birch
Betula pendula

Medium to large
max height 20m
max spread 5m



Himalayan birch (multi stem)
Betula utilis jacquemontii

Medium to large
max height 15m
max spread 6m



Scots pine
Pinus sylvestris

Large
max height 20m
max spread 8m

3.1 PLANTING PLAN

Lower planting
refer to ONB document Ro_06 and specification Q31 and Q35

Refer to planting mix A

A1

A1 - Maple forest mix
8 plants /m2, 2lt pot, plant in clusters of 3-5-7 achieving a naturalistic distribution throughout the planted area
15% Polystichium setiferum
15% Blechnum spicant
15% Anemone x hybrida 'Honorine Jobert'
15% Euphorbia amigdaloides
15% Brunnera macrophylla 'Jack Frost'
10% Luzula sylvatica
10% Carex flacca
- Additional shrub / Cluster of shrubs from selection below, 5lt pots at specified locations
Masseuccia struthiopteris
Dryopteris affinis
Polystichium setiferum
Refer to ONB document Ro_06 par 3.2 for quantities

Refer to planting mix B

B2

B2 - Pine forest mix
8 plants /m2, 2lt pot, plant in clusters of 3-5-7 achieving a naturalistic distribution throughout the planted area
20% Dryopteris affinis
20% Polystichium polyblepharum
20% Blechnum spicant
10% Anemone x hybrida 'Honorine Jobert'
10% Hakonechloa macra
10% Galium odoratum
10% Milium effusum
- Additional shrub / Cluster of shrubs from selection below, 5lt pots at specified locations
Taxus cuspidata
Juniperus sabina
Dryopteris wallichiana
Refer to ONB document Ro_06 par 3.2 for quantities

Refer to planting mix C

C1

C1 - Forest floor
8 plants /m2, 2lt pot, plant in clusters of 3-5-7 achieving a naturalistic distribution throughout the planted area
20% Matteuccia struthiopteris
20% Bergenia crassifolia
10% Anemone x hybrida 'Honorine Jobert'
20% Luzula sylvatica
20% Hakonechloa macra
10% Heder helix
- Additional shrub / Cluster of shrubs from selection below, 5lt pots at specified locations
Dryopteris affinis
Dryopteris wallichiana
Farfugium japonicum 'giganteum'
Refer to ONB document Ro_06 par 3.2 for quantities

C2

C2 - Forest floor
8 plants /m2, 2lt pot, plant in clusters of 3-5-7 achieving a naturalistic distribution throughout the planted area
20% Polystichium polyblepharum
20% Bergenia crassifolia
10% Anemone x hybrida 'Honorine Jobert'
20% Luzula sylvatica
20% Hakonechloa macra
10% Heder helix
- Additional shrub / Cluster of shrubs from selection below, 5lt pots at specified locations
Tetrapanax papyrifer 'Rex'
Matteuccia struthiopteris
Polystichium polyblepharum
Refer to ONB document Ro_06 par 3.2 for quantities

Additional single shrub

Additional cluster of shrubs

In gravel, to cover 30% of the surface and maintaining 500 mm distance from the building line plant in clusters of 3 achieving a naturalistic distribution

In mulch, and max 1m distance from planted areas plant as single or in clusters of 3 achieving a naturalistic distribution

Mulch

ref to page
doc

Trees
Refer to ONB drawing 061-103 and specification Q31 and Q35

Large tree, 30 cm girth at delivery
6 m tall, 4 m canopy diameter
Rootball at delivery 1000dix700mm high

Medium single-stem tree, 20-25 cm girth at delivery
5 m tall, 3 m canopy diameter
Rootball at delivery 600dix700mm high

Medium multi-stem tree, 20-25 cm girth at delivery
5 m tall, 3 m canopy diameter
Rootball at delivery 1400dix700mm high

Small multi-stem tree, 16-18 cm girth at delivery
3m tall, 2 m canopy diameter
Rootball at delivery 700dix500mm high

Ivy edge. Allow ground cover planting, 2 lt pots / 6 pots per sq m
Hedera Helix

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3.2 PLANTING SCHEDULE - AREAS BREAKDOWN

MIX	AREA	revised area	QUANTITY	revised quantity	SPECIES	
ALL 2lt POT UNLESS OTHERWISE STATED						
A1	190 m2	180m2	1668	1440		Frosts Area 184m2
	34259602.29	34259602.29	320	288	Polystichum setiferum	
	31518603.18	31518603.18	320	288	Blechnum spicant	
	16073639.1	31518603.18	220	198	Euphorbia amygdaloides	
	13736230.79	13736230.79	220	198	Anemone x hybrida ‘Honorine Jobert’	
	40018281.54	40018281.54	220	198	Brunnera macrophylla ‘Jack Frost’	
	27138238.07	27138238.07	150	135	Luzula sylvatica	
	9598816.405	9598816.407	150	135	Carex flacca	
	16074253.13	16074253.13				
	188417664.5	-2958845.728			ADDITIONAL	
		-4757612.087	34		Dryopteris affinis	2 lt
		-7716457.815	17		Matteuccia struthiopi	5 lt
		180701206.7	17		Polystichum setiferun	7.5 lt

A2	235 m2	177 m2	1976	1416		Frosts Area 181m2
	284353146	284353146.1	376	283	Matteuccia struthiopteris	
	138510969	138512751.3	376	283	Anemone x hybrida ‘Honorine Jobert’	
	422864115	-16792217	376	283	Helleborus foetidus	
		-9445502.819	376	283	Brunnera macrophylla ‘Jack Frost’	
		-5842100.143	188	142	Carex flacca	
		-33582524.49	188	142	Asarum europeum	
		357203553				
					ADDITIONAL	
					Hamamelis	
			12		virginiana	30 lt 100-120 cm
			28		Blechnum spicant	5 lt
			56		Asplenium scolopendi	2 lt

B1	150 m2	140 m2	1233	1120		Frosts Area 139m2
	14657878.43	14657878.43	240	224	Dryopteris affinis	
	17095385.86	17095385.86	240	224	Polystichum polyblepharum	
	24177027.08	24177027.08	240	224	Blechnum spicant	
	18693004.93	29297243.2	120	112	Anemone x hybrida ‘Honorine Jobert’	
	19439359.82	19439359.82	120	112	Galium odoratum	
	29297243.2	18693004.93	120	112	Hakonechloa macra	
	8001706.478	8001706.478	120	122	Milium effusum	
	6519507.938	6519507.938				
	9052864.041	9052864.041			ADDITIONAL	
	146933977.8	-1543145.832	11		Taxus cuspidata	10 lt
		-3244369.191	11		Juniperus sabina	25-30 cm rootball
		-1817711.825	11		Dryopteris wallichiana	5 lt
		140328750.9				

B2	425 m2	130 m2	3500	1038		Frosts Area 123m2
	151605192.6	151605192.6	793	242	Blechnum spicant	
	186641459.8	186641459.8	793	242	Dryopteris wallichiana	
	338246652.4	-4239850.373	793	242	Tiarella cordifolia	
		-18067089.9	340	104	Galium odoratum	
		-46068463.31	340	104	Hakonechloa macra	
		269871248.8	340	104	Milium effusum	
					ADDITIONAL	
			25		Polystichum polyblepi	5 lt
			50		Hosta Plantaginea	2 lt
			25		Blechnum spicant	5 lt

C1	195 m2	191 m2	1660	1526		Frosts Area 175m2
	45477674.05	45477674.05	312	305	Matteuccia struthiopteris	
	17262786.47	17262786.47	312	305	Bergenia crassifolia	
	26988709.59	26988709.59	312	305	Luzula sylvatica	
	18109844.32	18109844.32	312	305	Hakonechloa macra	
	22965555.03	22965555.03	156	153	Hedera helix	
	30835603.66	30835603.66	156	153	Anemone x hybrida ‘Honorine Jobert’	
	15146884.6	15146884.6				
	12401666.1	8764229.724			ADDITIONAL	
	5578882.101	5578882.101	50		Dryopteris affinis	2 lt
	194767605.9	191130169.5	25		Dryopteris wallichiana	5 lt
			25		Farfugium japonicum	3 lt

C2	235 m2	159 m2	1932	1270		Frosts Area 155m2
	74579321.78	74579321.78	376	250	Polystichum polyblepharum	
	171541096.4	132616603.2	376	250	Bergenia crassifolia	
	143124609	37994144.39	376	250	Luzula sylvatica	
	41878302.01	172004806.8	376	250	Hakonechloa macra	
	431123329.2	-10105487.89	126	90	Anemone x hybrida ‘Honorine Jobert’	
		-25165987.7	126	90	Hedera helix	
		-5999999.999	126	90	Campanula poscharskyana	
		-26296526.53				
		349626874.1			ADDITIONAL	
			6		Tetrapanax papyrifer	10 lt
			23		Matteuccia struthiopi	5 lt
			23		Polystichum polyblepi	5 lt

GRAVEL	30 m2	72	
of wich covered		36	Hedera helix
9 m2		36	Campanula poscharskyana

MULCH	142 m2	308 m2	44		Frosts Area 107m2
		91899825.94	44		Hedera helix
	91899823.08	36634026.87			
	36634027.33	12798289.62			Mulch added under gantry
	12798304.18	46555142.21			no planting required under gantry
	141332154.6	113864768.7			
		5999999.999			
		307752053.3			

S1 - IVY EDGE	110 m2	660	
	44766614.53	660	Hedera helix
edge to building	43239562.3		
to be planted with hedera helix	22505310.69		
2 lt pots / 6 pots per sq m	110511487.5		

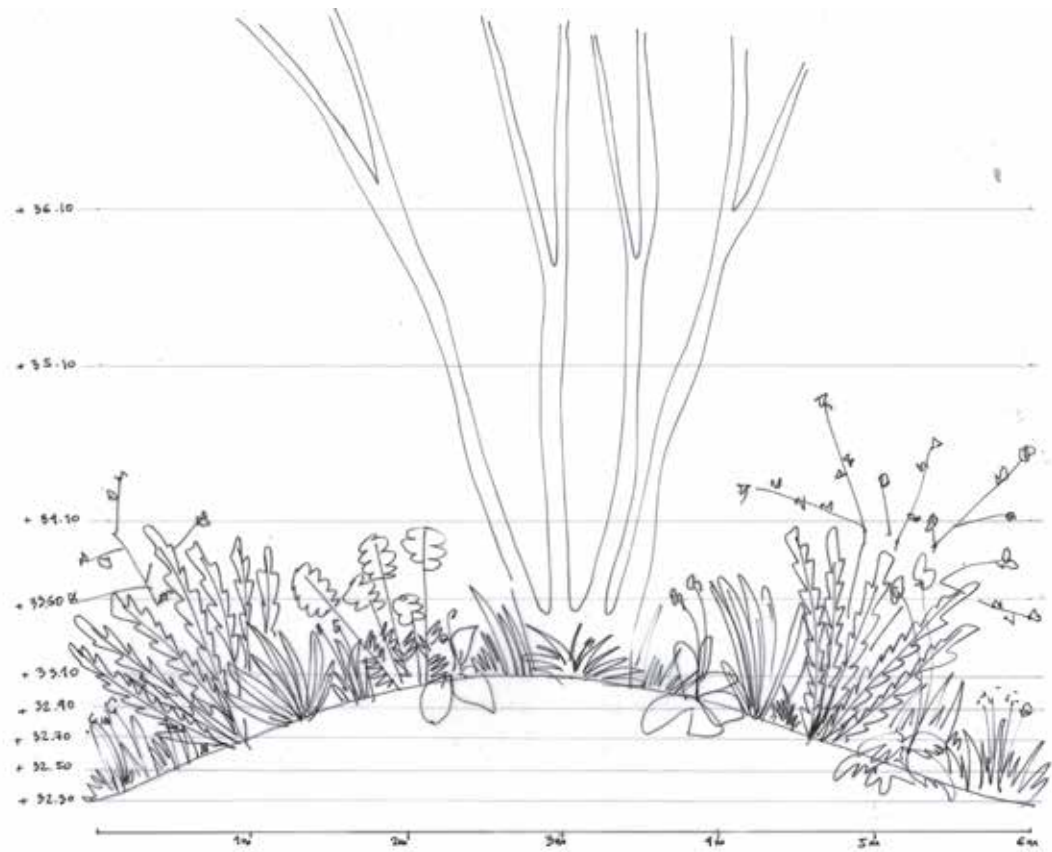
NOTE - PLANTING SUPPLY:

. Quality: full pot, fully rooted, healthy crown

- All tree stock to be approved by landscape architect before delivery to site
- Contractor to supply photos of stock from which to meet specification from nursery for initial sign off
- Landscape architect to visit nursery to approve stock. (Contractor to arrange and cover costs).
- Landscape architect to tag specific trees prior to order
- Tagged tree stock to be checked on site by landscape architect on delivery
- Any tree stock delivered which does not meet specification will be rejected and replaced with stock which meets specification

3.3 PLANTING MIX A: MAPLE FOREST MIX

Refer to ONB drawing 061-102 (3.1) for density and pattern and to section 3.2 of this document for quantities.



	SPRING			SUMMER			AUTUMN			WINTER		
	M	A	M	J	J	A	S	O	N	D	J	F
Witch hazel												
Scaly Male Fern												
Shuttlecock Fern												
Soft Shield Fern												
Hard Fern												
Hart's Tongue Fern												
Japanese anemone												
Stinking Hellebore												
Wood Spurge												
Siberian bugloss												
Great wood-rush												
Blue sedge												
Wild garlic												
Serbian bellflower												
Wild Ginger												



Witch hazel
Hamamelis virginiana
3 m
Non-native
Flower in winter



Scaly Male Fern
Dryopteris affinis
1.5 m
Native
Evergreen



Shuttlecock Fern
Matteuccia struthiopteris
1.5 m



Soft Shield Fern
Polystichum setiferum
1 m
Native
Evergreen



Hard Fern
Blechnum spicant
0.5 m
Native
Evergreen



Hart's Tongue Fern
Asplenium scolopendrium
0.5m
Native
Evergreen



Japanese anemone
Anemone x hybrida 'Honorine Jobert'
1.2 m
Semi-Evergreen



Stinking Hellebore
Helleborus foetidus
1 m
Native
Evergreen



Wood Spurge
Euphorbia amygdaloides
0.5 m
Native
Evergreen



Siberian bugloss
Brunnera macrophylla 'Jack Frost'
0.5m
Perennial



Great wood-rush
Luzula sylvatica
1 m
Native
Evergreen



Blue sedge
Carex flacca
0.5 m
Native
Evergreen



Serbian bellflower
Campanula poscharskyana
0.1m
Semi-Evergreen



Wild Ginger
Asarum europaeum
0.1 m
Semi-Native
Evergreen

3.4 PLANTING MIX B: PINE FOREST MIX

Refer to ONB drawing 061-102 (3.1) for density and pattern and to section 3.2 of this document for quantities.



	SPRING			SUMMER			AUTUMN			WINTER		
	M	A	M	J	J	A	S	O	N	D	J	F
Japanese yew												
Savin juniper												
Alpine wood Fern												
Scaly Male Fern												
Japanese lace fern												
Hard Fern												
Japanese anemone												
Plantain lily												
Sweet woodruff												
Foam flower												
Japanese forest grass												
Golden grass												



Japanese yew
Taxus cuspidata
2.5 m
Non-Native
Evergreen



Savin juniper
Juniperus sabina
2 m
Native
Evergreen



Alpine wood Fern
Dryopteris wallichiana
1 m
Non-Native
Semi-Evergreen



Scaly Male Fern
Dryopteris affinis
1.5 m
Native
Evergreen



Japanese lace fern
Polystichum polyblepharum
1 m
Non-Native
Evergreen



Hard Fern
Blechnum spicant
0.5 m
Native
Evergreen



Japanese anemone
Anemone x hybrida 'Honorine Jobert'
1.2 m
Semi-Evergreen



Plantain lily
Hosta Plantaginea
0.6m
Perennial



Sweet woodruff
Galium odoratum
0.5 m
Native
Perennial



Foam flower
Tiarella cordifolia
0.5 m
Non-Native



Japanese forest grass
Hakonechloa macra
0.5m
Non-Native
Evergreen



Golden grass
Miliun effusum
0.6m
Non-native
Semi-evergreen

3.5 PLANTING MIX C: FOREST FLOOR

Refer to ONB drawing 061-102 (3.1) for density and pattern and to section 3.2 of this document for quantities.



	SPRING			SUMMER			AUTUMN			WINTER		
	M	A	M	J	J	A	S	O	N	D	J	F
Rice-paper plant												
Shuttlecock Fern												
Scaly Male Fern												
Alpine wood Fern												
Japanese lace fern												
Japanese anemone												
Giant leopard plant												
Korean elephant's ears												
Great wood-rush												
Japanese forest grass												
Common Ivy												
Serbian bellflower												



Rice-paper plant
Tetrapanax papyrifer
'Rex'
3 m
Semi-Evergreen



Shuttlecock Fern
Matteuccia struthiopteris
1.5 m



Scaly Male Fern
Dryopteris affinis
1.5 m
Native
Evergreen



Alpine wood Fern
Dryopteris wallichiana
1 m
Non-Native
Semi-Evergreen



Japanese lace fern
Polystichum polyblepharum
1 m
Non-Native
Evergreen



Japanese anemone
Anemone x hybrida
'Honorine Jobert'
1.2 m
Semi-Evergreen



Giant leopard plant
Farfugium japonicum
'giganteum'
0.5 m
Semi-Evergreen



Korean elephant's ears
Bergenia crassifolia
0.5-1 m
North East Asia
Evergreen



Great wood-rush
Luzula sylvatica
1 m
Native
Evergreen



Japanese forest grass
Hakonechloa macra
0.5m
Non-Native
Evergreen



Common Ivy
Hedera helix
1.0 m
Native
Evergreen



Serbian bellflower
Campanula poscharskyana
0.1m
Semi-Evergreen

3.6 IN GRAVEL

Refer to ONB drawing 061-102 (3.1) for density and pattern and to section 3.2 of this document for quantities.



Common Ivy
Hedera helix
1.0 m
Native
Evergreen



Serbian bellflower
Campanula poscharskyana
0.1m
Semi-Evergreen

To be planted in seed tray with capillary mat at the bottom. Tray to be filled with soil and covered in gravel.

3.6 IN MULCH

Refer to ONB drawing 061-102 (3.1) for density and pattern and to section 3.2 of this document for quantities.



Common Ivy
Hedera helix
1.0 m
Native
Evergreen

4.1 MAINTENANCE

Refer to ONB specification Q35

- 2 years maintenance of all soft landscape is required (Trees and Planting) starting from the date of practical completion.
- The soft landscape maintenance shall be undertaken by the Contractor's soft landscape sub-contractor.
- Contractors are to be required to provide a monthly plan of work and programme for the 2 year maintenance period including the following as a minimum:
 - All landscaped and communal landscaped areas are to be weeded at regular intervals, increased during summer months to at least monthly.
 - Regular watering, cutting and pruning is to be undertaken to ensure healthy growth and development of all planting and trees.
 - Cuts of grassed areas, de-stoning and patching with turf if required. Cuttings arising are to be collected and removed.
 - Tree pruning to lower branches to maintain visibility across planting beds, footway and carriageway.
 - Removal of damaged, ill or dead limbs of trees.
 - Top up of mulching with bark mulch as required to ensure soil areas are not left bare.

REPLACEMENT: Replacement of dead plants, shrubs, trees and grass as necessary as soon as possible within the next available growing season.

IRRIGATION

Refer to ONB specification Q35, S14

RECTIFICATION PERIOD

- Any planting failures should be replaced immediately during the rectification period.
- First cuts of grassed areas, de-stoning, and removal of arisings is required before the maintenance contractor starts their contract.
- Watering in to ensure all planting has taken successfully, replacing dead plants, shrubs, trees and grass as necessary.
- Landscape architect to sign off planting and tree installation before practical completion.

SOILS

Refer to ONB specification Q28, Q35

Soil specification be written by a suitably qualified Soil Scientist based on ground conditions and planting mixes and trees specified.



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