PLANTING NOTES

1.0 TREE PLANTING

1.1 Tree procurement and management shall adhere to the good practice standards set out within BS 8545:2014 Trees: from Nursery to independence in the landscape recommendations and BS 3936:1992 Nursery Stock, Specification for trees and shrubs.

1.2 All trees to be staked and tied with a single stake set 600mm min. above ground level with rubber webbing tie and spacer. Multi-stem and Heavy Standard trees or larger are to be secured using an underground guy anchor system secured into place with 3no. stakes around the rootball.

1.3 Ornamental trees to be planted in tree pit 1000 x 1000 x 750mm and backfilled with a mixture of quality topsoil and 40L bag of tree planting compost (non-peat based) and incorporated into the tree pit, ensuring pits are 75mm deeper and 150mm wider than the tree roots. Base of pit to be broken up to a depth of 150mm. All other tree pit accessories to adhere to soft works details and specifications submitted alongside this drawing.

2.0 SHRUBS AND HERBACEOUS PLANTING

2.1 All ornamental planting mixes to be planted as per the density set out within the schedule and planted in single species groupings of 3 - 5 plants in a natural arrangement

2.2 All ornamental planting is to be handled as per 'Plant Handling' set out within CPSE guidlines (Committee for Plant Supply and Establishment). All shrubs to generally have a minimum of three breaks unless otherwise specified in the plant schedule.

2.3 Plants shall be quality examples of their species and variety, free from pests and diseases and with good root systems as per BS3936 'Specification of Nursery Stock'

2.4 Shrub beds to have a minimum of 450mm good quality topsoil, beds to be cultivated before planting and checked for any hard rubble, stones or other loose material greater than 50mm. Beds to be maintained with a minimum of 75mm depth medium grade tree bark and kept weed free.

3.0 GENERAL

3.1 Maintenance to be carried out at approximately monthly intervals and to include the following operations:

- Ensure all shrubs and trees are firmed in, securely staked and tied
- Collect litter, sweep and tidy planting areas
- Eradicate weed
- Cut out dead or / and damaged stock or branches, prune as required

3.2 The contractor must ascertain for himself/herself the exact location of underground services and maintenance points

3.3 Water all plants and trees on the same day of planting and thereafter as necessary (min. once per week in periods of drought) to ensure the establishment of plants during the 12months defects period

BUILDING D
PUBLIC REALM ORNAMENTAL PLANTING SCHEDULE

Refer to drawing M90183_D_L204 for planting mix arrangements

Planter Mix A

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Mix %	per m²	Number
Hakonechloa macra	Japanese Forest Grass			5L	Full pot	33.33	2	12
Heuchera 'Strawberry Swirl'	Coral Flower 'Strawberry Swirl'			2L	Full pot	33.33	2	12
Muehlenbeckia complexa	Maidenhair vine		80-100	3L	Caned; several shoots; 2 brks	33.33	2	12

Planter Mix B

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Mix %	per m²	Number
Blechnum spicant	Hard Fern			5L	Full pot	33.33	2	18
Carex oshimensis 'Evergold'	Japanese Sedge 'Evergold'			5L	Full pot	33.33	3	31
Hedera hibernica	Irish Ivy		60-80	3L	Several shoots; 5 brks	33.33	3	31

Planter Mix C

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Mix %	per m²	Number
Carex oshimensis 'Evergold'	Japanese Sedge 'Evergold'			5L	Full pot	25.00	3	4
Convolvulus cneorum	Silverbush		20-30	3L	Bushy; 5 brks	25.00	3	4
Liriope muscari	Big Blue Lilyturf			5L	Full pot	25.00	4	5
Soleirolia soleirolii	Mind-your-own-business			0.5L	Full pot	25.00	1	1

Hulme Street - Mix A

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Mix %	per m²	Number
Asplenium scolopendrium	Hart's Tongue Fern			5L	Full pot	33.33	4	13
Choisya ternata	Mexican Orange Blossom		40-60	5L	Bushy; 5 brks	33.33	4	13
Sarcococca humilis	Dwarf Sweet Box		20-25	3L	Bushy; 6 brks	33.33	6	20

Hulme Street - Mix B

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Mix %	per m²	Number
Brunnera macrophylla	Siberian Bugloss			5L	Full pot	25.00	5	22
Epimedium grandiflorum 'Rose Queen'	Barrenwort 'Rose Queen'			5L	Full pot	25.00	6	26
Euphorbia amygdaloides robbiae	Mrs Robb's Bonnet			5L	Full pot	25.00	5	22
Liriope muscari	Big Blue Lilyturf			5L	Full pot	25.00	6	26

Hulme Street - Mix C

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Mix %	per m²	Number
Asplenium scolopendrium	Hart's Tongue Fern			5L	Full pot	25.00	5	23
Dryopteris filix-mas	Male Fern			5L	Full pot	25.00	5	23
Pachysandra terminalis	Japanese Spurge	15-20D		3L	Several shoots; 9 brks	25.00	6	27
Sarcococca hookeriana digyna	Sweet Box digyna		30-40	5L	Bushy; 6 brks	25.00	5	23

Hulme Street - Mix D

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Mix %	per m²	Number
Asarum europaeum	Asarabacca			1.5-2L	Full pot	25.00	8	40
Bergenia purpurascens	an Elephant's Ears			5L	Full pot	25.00	5	25
Carex oshimensis 'Evergold'	Japanese Sedge 'Evergold'			5L	Full pot	25.00	5	25
Pachysandra terminalis	Japanese Spurge	15-20D		3L	Several shoots; 9 brks	25.00	6	30

Hulme Street - Mix E

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Mix %	per m²	Number
Asarum europaeum	Asarabacca			1.5-2L	Full pot	25.00	8	44
Carex oshimensis 'Evergold'	Japanese Sedge 'Evergold'			5L	Full pot	25.00	5	27
Dryopteris filix-mas	Male Fern			5L	Full pot	25.00	3	16
Luzula nivea	Snowy Wood-rush			5L	Full pot	25.00	2	11

BUILDING D
PUBLIC REALM TREE PLANTING SCHEDULE

Refer to drawing M90183_D_L205 for tree planting locations

Clear-stem Trees

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Number
Acer platanoides 'Emerald Queen'	Norway Maple 'Emerald Queen'	25-30cm	5-5.5m	RB	3x; Semi-mature; clear stem min. 200cm	4
Betula utilisis jacquemontii 'Doorenbos'	Himalayan Birch 'Doorenbos'	25-30cm	4-4.50m	RB	3x; Semi-mature; clear stem min. 200cm	6
Prunus avium 'Plena'	Double Gean	25-30cm	5-5.5m	RB	3x; Semi-mature; clear stem min. 200cm	5
Pyrus calleryana	Callery Pear	25-30cm	5-5.5m	RB	3x; Semi-mature; clear stem min. 200cm	2
Sorbus aucuparia	Rowan	25-30cm	4-4.50m	RB	3x; Semi-mature; clear stem min. 200cm	2

Multi-stem Trees

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Number
Amelanchier lamarckii	Juneberry	MS	3.5-4	RB	3; Multi-stem; bushy; 3 stems min.	1
Parrotia persica	Persian Ironwood	MS	3.5-4	RB	4x; Multi-stem; bushy; 3 stems min.	2
Cercidiphyllum japonicum	Persian Ironwood	MS	3-3.5	RB	4x; Multi-stem; bushy; 3 stems min.	3

BUILDING D
PODIUM ORNAMENTAL PLANTING SCHEDULE

Refer to drawing M90183_D_L216 for planting mix arrangements

Prairie Mix A

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Mix %	per m²	Number
Achillea 'Terracotta'	Yarrow 'Terracotta'			3L	Full pot	10.00	6	25
Echinacea purpurea	Purple Coneflower			1L	Full pot	10.00	8	33
Panicum virgatum 'Shenandoah'	Red Switch Grass 'Shenandoah'			2L	Full pot	10.00	5	21
Phlomis fruticosa	Jerusalem Sage		30-40	5-7.5L	Branched; 5 brks	10.00	4	17
Skimmia x confusa 'Kew Green'	Skimmia 'Kew Green'		30-40	5L	Bushy; 4 brks	30.00	5	62
Stipa tenuissima 'Pony Tails'	Mexican Feather Grass 'Pony Tails'			5-7.5L	Full pot	10.00	6	25
Vinca minor	Lesser Periwinkle	30-40D		5-7.5L	Several shoots; 5 brks	20.00	4	33

Prairie Mix B

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Mix %	per m²	Number
Anemone x hybrida 'Honorine Jobert'	Japanese Anemone 'Honorine Jobert'			5L	Full pot	7.50	8	24
Echinacea purpurea	Purple Coneflower			1L	Full pot	7.50	8	24
Hakonechloa macra 'Aureola'	Golden Japanese Forest Grass			5L	Full pot	10.00	4	16
Phlomis fruticosa	Jerusalem Sage		30-40	5-7.5L	Branched; 5 brks	10.00	4	16
Phlomis russeliana	Turkish Sage			5L	Full pot	10.00	5	20
Rudbeckia fulgida sullivantii 'Goldsturm'	Black-eyed Susan 'Goldsturm'			5L	Full pot	10.00	5	20
Skimmia x confusa 'Kew Green'	Skimmia 'Kew Green'		20-30	2L	Bushy; 3 brks	15.00	6	36
Stipa arundinacea	Pheasant's Tail Grass			0.5L	Full pot	15.00	8	48
Stipa tenuissima 'Pony Tails'	Mexican Feather Grass 'Pony Tails'			5-7.5L	Full pot	15.00	6	36

Prairie Mix C

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Mix %	per m²	Number
Achillea 'Terracotta'	Yarrow 'Terracotta'			3L	Full pot	10.00	6	21
Deschampsia cespitosa 'Goldtau'	Tufted Hair Grass 'Goldtau'			5L	Full pot	20.00	4	28
Echinacea purpurea	Purple Coneflower			1L	Full pot	10.00	8	28
Miscanthus sinensis 'Kleine Silberspinne'	Eulalia 'Kleine Silberspinne'			5-7.5L	Full pot	20.00	4	28
Panicum virgatum 'Shenandoah'	Red Switch Grass 'Shenandoah'			2L	Full pot	10.00	5	17
Rudbeckia fulgida sullivantii 'Goldsturm'	Black-eyed Susan 'Goldsturm'			5L	Full pot	10.00	4	14
Stipa arundinacea	Pheasant's Tail Grass			1L	Full pot	20.00	7	49

Defensible Mix

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Mix %	per m²	Number
Berberis darwinii	Darwin's barberry		80-100	10L	Branched; 6 brks	20.00	1	58
Crataegus laevigata	Midland Hawthorn		175-200	10-15L	Feathered; 5 brks	20.00	1	58
Ilex aquifolium	Common Holly		80-100	10L	Leader with laterals	20.00	1	58
Pyracantha coccinea 'Red Column'	Firethorn 'Red Column'		60-80	10L	Bushy; 7 brks	20.00	1	58
Ulex europaeus	Common Gorse		30-40	3L	Bushy; 5 brks	20.00	3	175

Trees

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Mix %		Number
Betula utilis jacquemontii	White-barked Himalayan Birch		400-450	150-200L	C; Multi-stem; bushy; 3 stems min.		Counted	6
Cercidiphyllum japonicum	Katsura Tree		300-350	45-85L	C; Multi-stem; bushy; 3 stems min.		Counted	4
Parrotia persica	Persian Ironwood		350-400	RB	4x; Multi-stem; bushy; 3 stems min.		Counted	6

Climbers

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	per m²	Number
Trachelospermum jasminoides	Star jasmine		175-200cm	10L	Caned; several shoots; 5 breaks	Counted	12
Hedera helix 'Glacier'	Midland Hawthorn		175-200	10-15L	Feathered; 5 brks	Counted	6

BUILDING D
PODIUM TREE PLANTING SCHEDULE

Refer to drawing M90183_D_L216 for tree planting locations

Trees

Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Mix %		Number
Betula utilis jacquemontii	White-barked Himalayan Birch		400-450	150-200L	C; Multi-stem; bushy; 3 stems min.		Counted	6
Cercidiphyllum japonicum	Katsura Tree		300-350	45-85L	C; Multi-stem; bushy; 3 stems min.		Counted	4
Parrotia persica	Persian Ironwood		350-400	RB	4x; Multi-stem; bushy; 3 stems min.		Counted	6

NOTES

1. This drawing is to be read in conjunction with all other drawings and specifications.
2. Do not scale off this drawing. Written dimensions to be taken only.
3. Any discrepancies found between this drawing and other drawings and specifications in the construction documents must be referred to the Landscape Architect prior to work commencing.
4. This drawing must not be copied in whole or in part without prior written consent of Optimised Environments Ltd.
5. Survey information is based upon aspect surveyors Topographical as Survey.

CDM INFORMATION

KEY PLAN

Issue	Revision	Initial	Date
02	Maintenance Update	CO	19.06.23
-	FIRST ISSUE	AH	13.06.23

optimised environments

optimised environments ltd

EDINBURGH 2nd Floor | Quartermile Two | 2 Lister Square | Edinburgh | EH3 9GL
t: 0131 221 5920 w: optimisedenvironments.com

LONDON Warnford Court | 29 Throgmorton Street | London | EC2N 2AT
t: 020 79474062 | w: optimisedenvironments.com

MANCHESTER 13 Swan Street | Manchester | M4 5JJ
t: 0161 696 7550 | w: optimisedenvironments.com

Optimised Environments Ltd. Registered in Scotland SC358310.
Registered address: 2nd Floor | Quartermile Two | 2 Lister Square | Edinburgh | EH3 9GL

Client

Downing Living (Manchester) Ltd

Project

PLOT 11 FIRST STREET SOUTH

Manchester

Drawing Title

BUILDING D
PLANTING SCHEDULES

SHEET 1 OF 1

Scale Bar — 2m 4m 6m 8m 10m — North

Scale:	**1:100@A1**	Date:	**Apr 2023**
By:	**AH**	Status:	**TENDER**
Checked:	**AW**	Approved:	**AW**

Drawing Number **M90183_D_L206** — Rev **02**

Computer File: R:\Projects\2019\M90183_FirstStrCAD\AUTOCAD\SHEETS\PHASE D