LEGEND: SOFT LANDSCAPING

GROUND COVER: evergreen & deciduous ground cover planting.

NATIVE HEDGE: native species rich hedge as detailed, maintained at 1.5m height with clipped sides.

FLOWERING LAWN: areas to be seeded with Emorsgate Seeds 'Flowering Lawn Mixture' EL1.

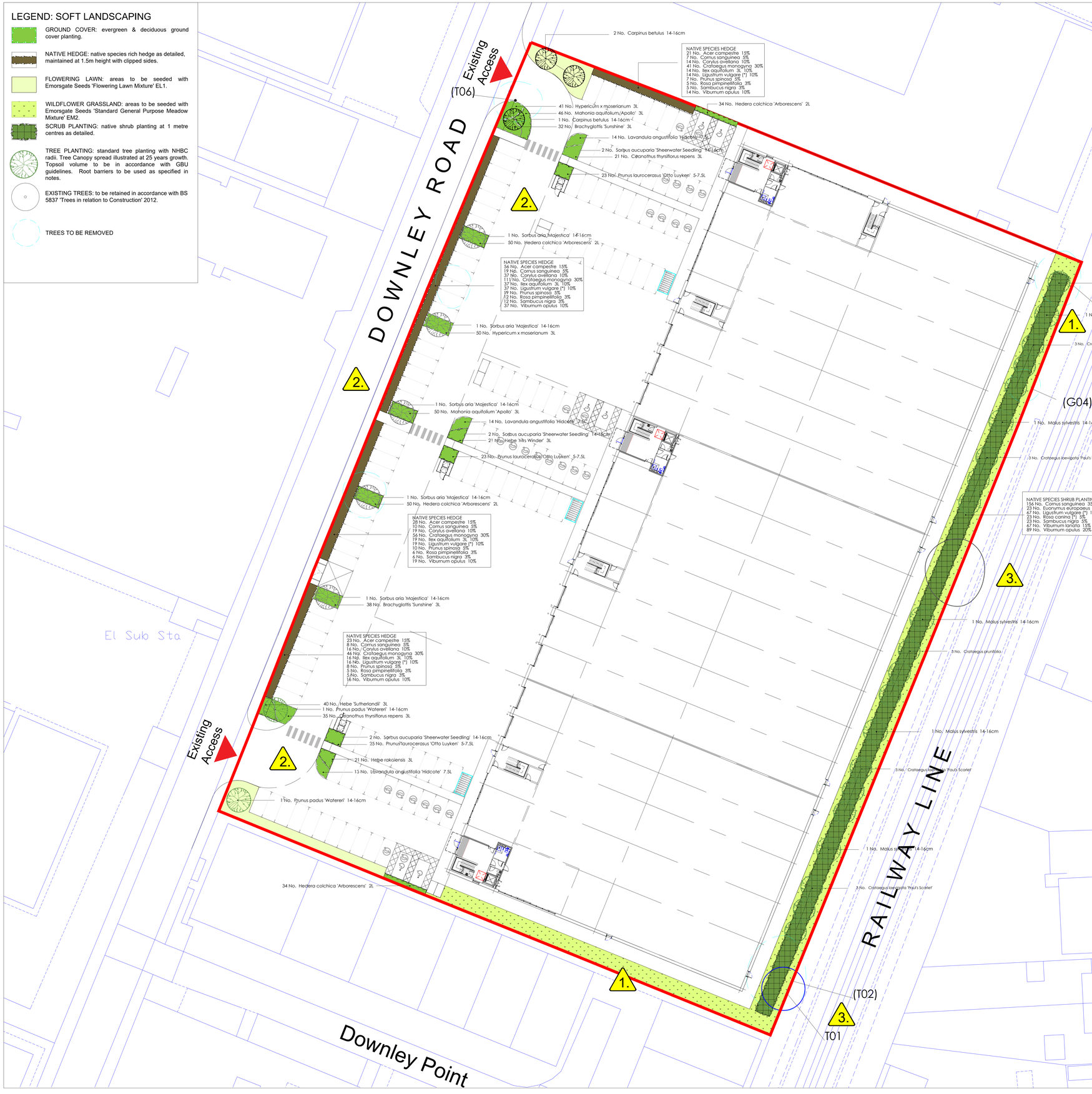
WILDFLOWER GRASSLAND: areas to be seeded with Emorsgate Seeds 'Standard General Purpose Meadow Mixture' EM2.

SCRUB PLANTING: native shrub planting at 1 metre centres as detailed.

TREE PLANTING: standard tree planting with NHBC radii. Tree Canopy spread illustrated at 25 years growth. Topsoil volume to be in accordance with GBU guidelines. Root barriers to be used as specified in notes.

EXISTING TREES: to be retained in accordance with BS 5837 'Trees in relation to Construction' 2012.

TREES TO BE REMOVED



PLANNING NOTES (SOFT LANDSCAPE):

1. SOILS: Subgrade / subsoil to be prepared in accordance with BS 8601:2013 and BS 4428:1989 and scarified or ripped to 300mm depth (excluding root protection areas of retained trees refer to Tree Protection Plan) prior to spreading topsoil to alleviate compaction and promote drainage. Imported and as saved topsoil to be in accordance with BS 3882: 2015 'Multipurpose Grade' with minimum soil organic matter contents 1% greater than the minima value (or as approved). Imported topsoil (and 'as saved' if requested) is to be laboratory tested to BS 3882:2015 and ameliorated as required to meet the required characteristics as detailed within Table 1 of BS 3882:2015 specification. Wildflower areas to be unimproved topsoil or low fertility topsoil to BS 3882:2015. Grass areas to be a minimum depth of 150mm, Shrub beds, hedges 450mm depth and transplants 300mm depth. Where specimen trees are planted in confined shrub beds or lawns, a depth of 600mm topsoil (rather than 450mm or 150mm) will be necessary to ensure appropriate topsoil volume for tree growth. Refer to GreenBlue Urban's 'Soil Volume Guide' for specific trees. Any weed / grass growth to be sprayed out with appropriate herbicide at least 10 days prior to cultivation. All areas to be cultivated to a minimum depth of 150mm removing weeds and rubbish / stones greater than 20mm in size. Incorporate proprietary non peat compost to BSI PAS 100 to 50mm depth evenly worked into soil during cultivation.

N.B Proposed services (electric, water, gas etc) in landscape areas should be installed as a minimum below the required topsoil depths and clearly identified in accordance with service / utility requirements.

2. BUILDING FOUNDATION DESIGN: All tree and shrub planting proposals are to be referred to by the structural engineer during building foundation design.

3. PLANT STOCK: Unless agreed otherwise all trees and shrubs are to be of UK provenance where plants have been propagated and/or grown on for a minimum of 5 years in the UK for trees and 2 years for shrubs. All plants are to comply with the requirements of all current British Standards including BS3936 'Specifications for Nursery Stock' and BS8545 'Trees from nursery to independence in the landscape' and be supplied in accordance with the Plant Schedule. Should planting be required outside of the planting season (November - March) any bare root or rootballed stock specified is to be replaced with containerised stock to an appropriate or similar specification to the approval of the landscape architect prior to ordering.

4. EXISTING TREES: Where trees are to be retained they should be subject to a full arboricultural inspection to assess condition and safety. Retained trees shall be protected from damage by erection of 2.3m weldmesh fencing on a scaffold framework in accordance BS 5837:2012 Figure 2. These barriers shall be maintained in position and in good condition until works are complete. Fencing to be located in accordance with Table D.1 at a radius of 12 times the stem diameter (single stem trees) or based on the combined stem diameter for multistem trees (trees with more than one stem arising below 1.5m above ground level) refer to Clause 4.6. Further precautions are to be taken as detailed within BS 5837:2012 6.2.4.

5. TREE SURGERY / REMOVAL: Tree surgery and tree removal to be carried out by an Arboricultural Association approved Tree surgeon in accordance with BS 3998:2010. Arisings to be removed to a licensed tip.

6. TREE PLANTING: All trees to be in accordance with BS 3936, BS8545 and The National Plant Specification – 'Rootballed Trees' recommendations. Trees to be planted in accordance with BS 4428:1989, double staked (10-12cm - 14-16cm girth trees) tied and braced with flexible webbing loops/belts and spacer collars/sleevers (NB: not with a timber cross bar) in prepared pits. Tree pits in open field / un-compacted ground conditions or shrub beds to be 1000mm x 1000mm (at least 75mm greater than that of the root system) with pit depth to be based on the planting depth of the tree (distance from root flare to underside of rootball) in accordance with BS 8545:2012. Topsoils and subsoils to be excavated and stored separately for reuse. Tree pit to be backfilled with stored subsoil and topsoil at depths to replicate the existing soil horizons. Topsoil to be mixed enriched with 40L of peat free tree planting compost, incorporating 'Rootgrow' professional mycorrhizal fungi granules (RGPro as supplied by Empathy) and Sierrablen N Mag Pre-planter Fertiliser in accordance with manufacturers recommendations. Root balls to be encircled by Root Rain Metro or similar irrigation pipe. Well water after planting. The base of trees to planted in grass areas are to be covered with 75mm amenity grade bark mulch such as Melcourt 'Amenity' Bark Mulch (or similar approved by the landscape architect) to 1.0 metre diameter and kept weed free.

Where trees are to be planted in heavily compacted ground, Small tree pits (Mature canopy 3m) should have a minimum soil volume of 4.24m3, Medium tree pits (Mature Canopy 5m) should have a minimum of 11.8m3, Large tree pits (Mature canopy 8m) should have a minimum of 24m3 (or to latest GreenBlue Urban Topsoil Volume Guidelines). Tree pits are to be excavated to achieve the above uncompacted growing volume with pits backfilled with excavated subsoil and topsoil (as described above) mixed with 150L of peat free tree planting compost. Tree pits in poorly draining soils are to be positively drained, connecting into the surface water drainage system to engineers details.

Generally all trees are to be planted as shown ensuring a minimum of 5 metres from buildings and 3 metres from drainage or services. Suitable foundations are to be provided to accommodate proposed tree planting and retained trees. In locations close to footpaths and roadways linear root barriers Greenblue Urban, ReRoot or similar are to be installed in accordance with manufacturers instructions. Where proposed tree locations conflict with services, trees are to be relocated in accordance with the appropriate utilities guidance notes subject to client / local authority approval. Proprietary root barrier Greenblue Urban, ReRoot or similar to be installed in accordance with manufacturers instructions where relocation is not considered appropriate.

7. SHRUB PLANTING: plants to be in accordance with BS 3936 and handled in accordance with NPS 'Handling & Establishment' guidelines and planted in accordance with BS 4428:1989. Nursery stock supplier to be approved by the Landscape Architect. All shrubs to have a minimum of three breaks, except Hedera with a minimum of two. Shrubs to be pit planted incorporating 'Rootgrow' professional mycorrhizal fungi granules (RGPro as supplied by Empathy) in accordance with manufacturers recommendations and Agriotec 'Yellow' tablets evenly distributed around the plant at 200mm depth with 2 tablets for plants up to 3 ltrs, 3 tablets for plants up to 5 ltrs and 4 ltrs for plants up to 10ltrs. Well water plants immediately after planting and prior to spreading of mulch. Planting areas to be covered with 75mm depth amenity grade bark mulch such as Melcourt 'Ornamental Bark Mulch' (or similar approved by the landscape architect) and kept weed free; on slopes greater than 1:3 a biodegradable geotextile i.e Ecomatt Weed Control Fabric to be laid and securely pegged in place.

8. NATIVE HEDGE PLANTING: plants to be in accordance with BS 3936 and handled in accordance with the NPS 'Handling & Establishment' guidelines and planted in accordance with BS 4428:1989. Hedge plants to be pit planted in double staggered rows 450mm apart at 450mm centres (or as scheduled) with the growing tip (top 100mm) of the hedge plant removed to encourage spreading growth. Bare root transplants to be root dipped with 'Broadleaf Root Dip' with 'Rootgrow' mycorrhizal fungi granules (RGPro as supplied by Empathy) and Sierrablen N Mag Pre-planter Fertiliser sprinkled evenly into prepared planting pit in accordance with manufacturers recommendations prior to planting. In mixed species hedges; shrub species to be planted randomly throughout the length of hedge. Well water plants immediately after planting and prior to spreading of mulch. Planted areas to be covered with 75mm depth bark mulch and kept weed free. Where necessary plants to be protected from rabbits with rabbit fence and / or individual rabbit mesh guards securely staked. Unless otherwise indicated on the drawing it is assumed that all hedges are to be maintained at a maximum height of 1.5m.

9. NATIVE SHRUB PLANTING: plants to be in accordance with BS 3936 and planted in accordance with BS 4428:1989. Transplants to be pit planted at 1 metre centres (or as scheduled) in random groupings of 3-5 and 7-10 shrub species depending on numbers of plants. Bare root transplants to be root dipped with 'Broadleaf Root Dip' with 'Rootgrow' mycorrhizal fungi granules (RGPro as supplied by Empathy) and Sierrablen N Mag Pre-planter Fertiliser sprinkled evenly into prepared planting pit in accordance with manufacturers recommendations prior to planting. Well water plants immediately after planting and prior to spreading of mulch. Planting areas to be covered with 75mm depth amenity grade bark mulch such as Melcourt 'Ornamental Bark Mulch' (or similar approved by the landscape architect) and kept weed free; on slopes greater than 1:3 a biodegradable geotextile i.e Ecomatt Weed Control Fabric to be laid and securely pegged in place. Plants to be protected from rabbits, with rabbit fence and / or individual mesh tree guards securely fixed to timber stake(s).

10. WILDFLOWER SEEDING: grass areas to be seeded in accordance with BS 4428:1989 during March, April or September. Unimproved or low fertility topsoil to be imported, cultivated and leveled to remove all minor hollows or ridges as required with any debris or stones greater than 20mm diameter removed to provide a fine weed free tilth . Do not apply fertiliser. Weeds to be eradicated by herbicide or repeated cultivation prior to sowing. Lightly rake areas after sowing and keep well watered. Areas to be kept free from unwanted plants and mown every 6 - 8 weeks during establishment year removing arisings. In subsequent years cut in early spring and autumn after setting seed (in accordance with manufacturers recommendations) removing arisings. A minimum 1.5 metre close mown margin is to be maintained abutting buildings and hard surfacing (i.e road, car park and footpath edges). Seed mixes to be supplied by Emorsgate Seeds and include the following sown in accordance with suppliers recommendations.

EM2 'Standard General Purpose Meadow Mixture' to general landscape areas (sown at 4g/m2).
EL1 'Flowering Lawn Mixture' (sown at 10/15g/m2).

11. MAINTENANCE: To be carried out in perpetuity, for the lifetime of the development at approximately monthly intervals (or as prescribed within a landscape management plan) including replacement of any tree, hedge, shrub or grassed area which die, has been damaged, vandalised or stolen within a period of five years from practical completion. Operations to include the following:

a. Eradicate weeds by hand or appropriate chemical means.
b. Cut out dead or / and damaged stock or branches, prune as required.
c. Ensure all shrubs and trees are firmed in, securely staked and tied with guards where applicable.
d. Collect litter, sweep and tidy site.
e. Apply suitable non-residual herbicides, pesticides and water as required.
f. Carry out mowing to wildflower areas as per Emorsgate Seeds Ltd aftercare First year & Established sward guidance (2-3 cuts a year).
g. Carry out mowing to flowering lawn grass areas when attained 100mm, cut to 40mm (50mm for shaded areas) approximately 2 week intervals during the growing season. To allow flowering relax mowing from late June for 4-8 weeks.
h. All hedges to be maintained at a max height of 1.5m and clipped / trimmed to kerb / pavement edges.
i. Native shrub planting areas to be maintained free from perennial weeds, self set shrub and tree species.
j. At final visit apply granular fertiliser to all planted areas and top up bark mulch depth to 75mm.

12. WATERING: all plant material (including turf) to be watered in dry periods until established during April through to September with a fine rose until the water penetrates the topsoil to at least 5cm depth and achieves field capacity. Frequency of watering regime to be determined by weather conditions, soil conditions and underlying geology, all plant beds to be watered to ensure soil is consistently moist to promote successful establishment. During hot, dry periods, plants are to be watered every six to ten days. For individual trees a minimum of 18 watering visits per year are to be carried out commencing late March (prior to budburst) and utilising a minimum of 50 litres of water per tree. Soil probe to be used to determine soil saturation to full depth of root ball.

Plant Schedule

Trees

No.	Species Name	Specification	Girth	Height	Density
3 -	Carpinus betulus	3x Extra Heavy Standard ;Clear Stem 175-200 ;5 brks ;RB ;PG	14-16cm	400-450cm	Counted
10 -	Crataegus laevigata 'Paul's Scarlet'	3x Extra Heavy Standard ;Clear Stem 175-200 ;5 brks ;RB ;PG	14-16cm	400-450cm	Counted
6 -	Crataegus prunifolia	3x Extra Heavy Standard ;Clear Stem 175-200 ;5 brks ;RB ;PG	14-16cm	400-450cm	Counted
5 -	Malus sylvestris	3x Extra Heavy Standard ;Clear Stem 175-200 ;5 brks ;RB ;PG	14-16cm	400-450cm	Counted
2 -	Prunus padus 'Waterei'	3x Extra Heavy Standard ;Clear Stem 175-200 ;5 brks ;RB ;PG	14-16cm	400-450cm	Counted
5 -	Sorbus aria 'Majestica'	3x Extra Heavy Standard ;Clear Stem 175-200 ;5 brks ;RB ;PG	14-16cm	400-450cm	Counted
6 -	Sorbus aucuparia 'Sheerwater Seedling'	3x Extra Heavy Standard ;Clear Stem 175-200 ;5 brks ;RB ;PG	14-16cm	400-450cm	Counted

Hedging

No.	Species Name	Specification	Girth	Diameter	Height	Pot Size	Density
128 -	Acer campestre	1+1 ;Transplant ;B			60-80cm		0.45CY Triple Staggered at 0.45m offset
44 -	Cornus sanguinea	1+1 ;Transplant ;Branched ;2 brks ;B			40-60cm		0.45CY Triple Staggered at 0.45m offset
56 -	Corylus avellana	1+2 ;Transplant ;Branched ;3 brks			60-80cm		0.45CY Triple Staggered at 0.45m offset
254 -	Crataegus monogyna	1+1 ;Transplant ;B			60-80cm		0.45CY Triple Staggered at 0.45m offset
66 -	Ilex aquifolium	Leader With Laterals			40-60cm	3L	0.45CY Triple Staggered at 0.45m offset
66 -	Ligustrum vulgare (*)	0/2 ;Cutting ;Branched ;3 brks ;B			60-80cm		0.45CY Triple Staggered at 0.45m offset
44 -	Prunus spinosa	1+1 ;Transplant ;Branched ;2 brks ;B			60-80cm		0.45CY Triple Staggered at 0.45m offset
28 -	Rosa pimpinellifolia	1+1 ;Transplant ;Branched ;3 brks ;B			40-60cm		0.45CY Triple Staggered at 0.45m offset
28 -	Sambucus nigra	1+1 ;Transplant ;Branched ;3 brks ;B			60-80cm		0.45CY Triple Staggered at 0.45m offset
66 -	Viburnum opulus	1+2 ;Transplant ;Branched ;3 brks ;B			60-80cm		0.45CY Triple Staggered at 0.45m offset

Shrubs

No.	Species Name	Specification	Diameter	Height	Pot Size	Density
70 -	Brachyglottis 'Sunshine'	Branched ;4 brks ;C ;PG 8		30-40cm	3L	3/m²
56 -	Ceanothus thyrsiflorus repens	Bushy ;5 brks ;C ;PG 8	30-40cm		3L	3/m²
156 -	Cornus sanguinea	1+1 ;Transplant ;Branched ;2 brks ;B			40-60cm		1/Ctr
23 -	Euonymus europaeus	1+2 ;Transplant ;Branched ;3 brks ;B			60-80cm		1/Ctr
21 -	Hebe 'Mrs Winder'	Bushy ;5 brks ;C ;PG 9		30-40cm	3L	3/m²
40 -	Hebe 'Sutherlandii'	Bushy ;5 brks ;C ;PG 9	20-30cm		3L	4/m²
21 -	Hebe rakaiensis	Bushy ;5 brks ;C ;PG 9	20-30cm		3L	3/m²
168 -	Hedera colchica 'Arborescens'	Bushy ;2 brks ;C ;PG 11		20-30cm	2L	4/m²
91 -	Hypericum x moserianum	Bushy ;7 brks ;C ;PG 8		30-40cm	3L	4/m²
41 -	Lavandula angustifolia 'Hidcote'	Bushy ;9 brks ;C ;PG 10		30-40cm	7.5L	2/m²
67 -	Ligustrum vulgare (*)	0/2 ;Cutting ;Branched ;3 brks ;B		60-80cm		1/Ctr
76 -	Mahonia aquifolium 'Apollo'	Branched ;2 brks ;C ;PG 8		20-30cm	3L	4/m²
71 -	Prunus laurocerasus 'Otto Luyken'	Bushy ;5 brks ;C ;PG 8		40-60cm	5-7.5L	3/m²
23 -	Rosa canina (*)	1+1 ;Transplant ;Branched ;3 brks ;B		40-60cm		1/Ctr
23 -	Sambucus nigra	1+1 ;Transplant ;Branched ;3 brks ;B		60-80cm		1/Ctr
67 -	Viburnum lanata	1+2 ;Transplant ;Branched ;3 brks		60-80cm		1/Ctr
89 -	Viburnum opulus	1+2 ;Transplant ;Branched ;3 brks ;B		60-80cm		1/Ctr

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Refer any query to office of origination.

rev	date:	amendments:	alt:
P01	21/05/24	First issue	E.H
P02	25/06/24	Issued for Planning	E.H
P03	27/06/24	Layout amendment	E.H
P04	03/07/24	Species amendments.	E.H

cdm 2015; designers residual risk information

LEGEND: CDM RESIDUAL RISKS

1. LEVEL CHANGES: changes in level across the site including retaining walls, ramped access, steps, slopes or ditches, restricting access with risk of operatives falling from height.

2. PEDESTRIAN & VEHICULAR TRAFFIC: car park, road and pavement within or adjacent to working areas; risk of collision with operatives, risk of harm to pedestrians.

3. RAILWAY LANE: existing railway line in close proximity to site boundary, Risk of collision with overhanging machinery / removed tree limbs.

It is assumed that works will be carried out by competent landscape subcontractor working, where appropriate to a risk assessment and method statement approved by the Principal Contractor.

bea landscape design ltd

client:
CANMOOR

project:
DUNHAM BUSH SITE
DOWNLEY ROAD, HAVANT

title:
PLANTING PLAN

status:
PLANNING

date:	drawn:	number:
MAY '24	E.C.H	BEA-24-042-06
scale@A0:	checked:	revision:
1:250	T.G-W	P04

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