

PLANNING NOTES (PRUNING):

1. PRUNING: to be carried out in accordance with BS 7370 Part 4, ensuring site operatives are fully trained. Recommendations are based on general pruning required to maintain plant health and vigor. Broad pruning principles are classified as follows within the plant schedule, refer to RHS Pruning Groups and species information for further details (<https://www.rhs.org.uk/advice/profile?pid=954>).

2. PRUNING CODES: the following codes have been applied to individual species within the plant schedule:

PG 1 Light Pruning
PG 2 Early-Flowering Shrubs
PG 3 Basal Shooting Shrubs
PG 4 Summer Flowering Shrubs
PG 5 Winter / Early Spring Flowering Shrubs
PG 6 Summer / Autumn Flowering Shrubs
PG 7 Pruning for Stems and Foliage

PG C1 Clematis Pruning Group
PG C2 Clematis Pruning Group
PG N Pruning Generally Not Required
PG F Fruit Tree Pruning (specific to species)

PG 8 Early Flowering Evergreen Shrubs
PG 9 Late Flowering Evergreen Shrubs
PG 10 Evergreen Shrubs
PG 11 Vigorous Climbers
PG 12 Moderately Vigorous Climbers
PG 13 Wall Trained Shrubs

PG BC Bamboo Cultivation
PG HB Herbaceous (specific to species)
PG GR Grasses (specific to species)
(Roses) Specific Requirements for Roses

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 and climbing plants 450mm depth and forestry / 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

2. UTILITIES & SERVICE DESIGN: Proposed services (electric, water, gas, telecoms etc) in landscape areas are to be installed as a minimum below the required topsoil depths and clearly identified in accordance with service / utility requirements, outside of the Root Protection Areas of retained trees and outside of the Soil Root Volume / canopy areas of the proposed trees. Similarly proposed drainage pipes, manholes and water attenuation features are to be designed to avoid the Root Protection Areas of retained trees and the Soil Root Volume areas / canopy area of proposed trees.

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

4. 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.

5. 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 waistmesh 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.

6. 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.

7. 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) or triple staked (16-18cm - 18-20cm girth trees) tied and braced with flexible webbing loops/belts and spacer collars/sleeves (NB not with a timber cross bar) in prepared pits. Semi mature trees to be underground guyed and securely anchored using Platipus Tree System. Tree pits in open field / uncompacted 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 with 40L of peat free tree planting compost, incorporating 'Rootgrow' professional mycorrhizal fungi granules (RGPro as supplied by Empathy) and Sierrablend N Mag Pre-planting 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 be 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.

In confined urban areas i.e car parks & housing estates where trees are to be planted in heavily compacted ground, Small tree pits (Mature canopy 3m) should have a minimum 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 without cells being approximately 2.5m x 2.5m backfilled with excavated subsoil and topsoil (as described above) mixed with 160L of peat free tree planting compost. Where groups of trees or avenues are planted the pits are to be combined to achieve the required growing volume. 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 accordance with the NHBC Standards. The NHBC radii are illustrated as a guide only, based on an assumed minimum foundation depths and should not be relied upon for construction purposes. 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.

8. SHRUB & HERBACEOUS 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 Agrobien '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 10lrs. 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 Ecomat Weed Control Fabric to be laid and securely pegged in place.

9. ORNAMENTAL HEDGE 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. Hedge plants to be 60-80cm in height with a minimum of three breaks, planted in double staggered rows 350mm apart at 450mm centres (or as scheduled). Shrubs to be pit planted incorporating 'Rootgrow' professional mycorrhizal fungi granules (RGPro as supplied by Empathy) in accordance with manufacturers recommendations and Agrobien '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 10lrs. Well water plants immediately after planting and prior to spreading of mulch. Planting 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

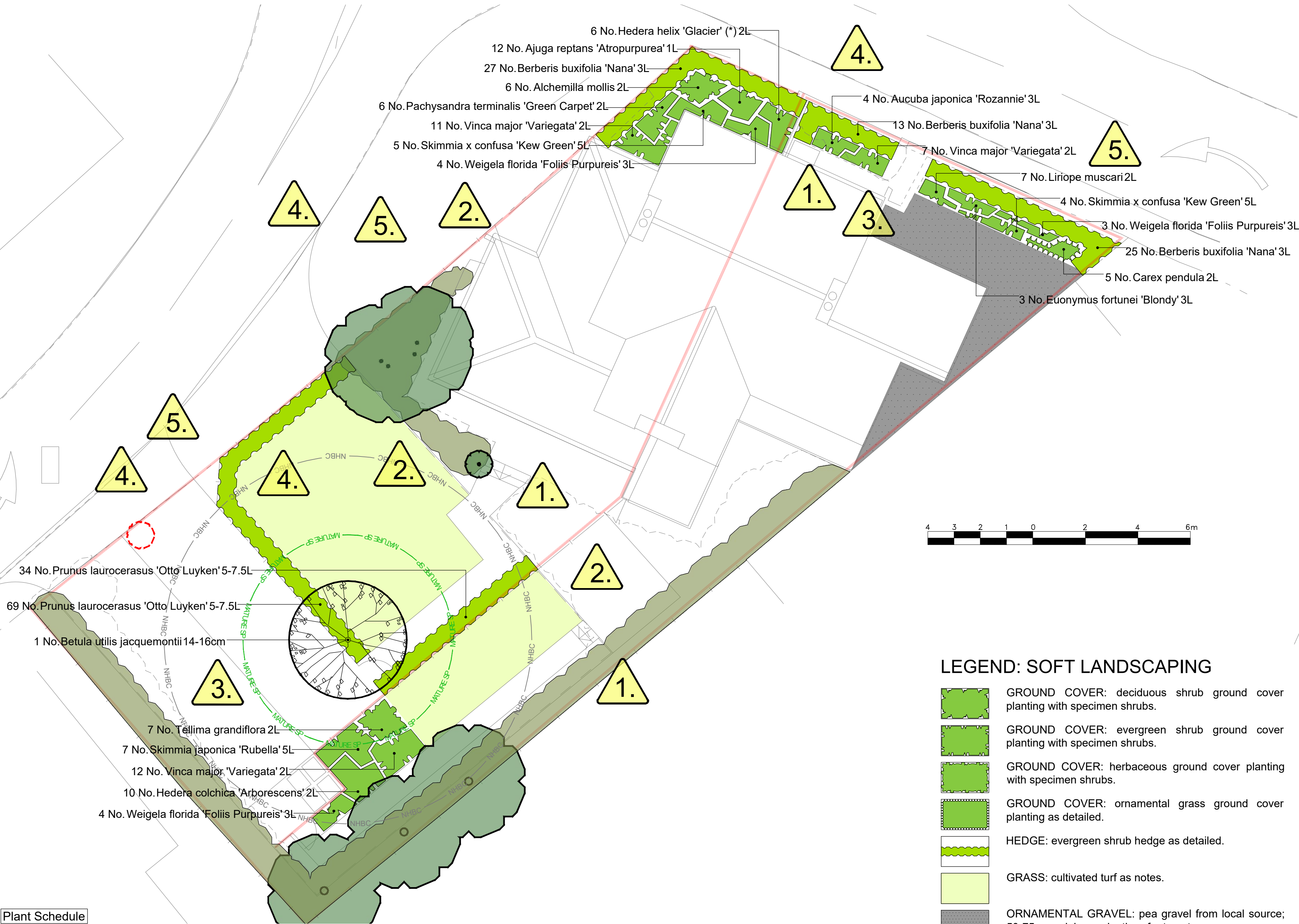
10. TURFING: Grass turf areas to be Tillers 'Arena' or similar approved cultivated turf to BS 3969 'Recommendations for Turf for general purposes' laid in accordance with BS 4428:1989. Prior to cultivation topsoil is to be free from perennial weeds, reasonably dry and workable and graded to remove all minor hollows or ridges and leveled as required with any debris or stones greater than 50mm diameter removed. Topsoil to be cultivated to full depth with top 25mm reduced to a fine tilth. Pre-turfing fertiliser to be applied in accordance with manufacturers instructions. Turf to be laid during appropriate weather conditions from planks with broken joints well butted up, pegged to slopes where required. Lightly consolidate and firm turf as laying proceeds. Fill joints with fine topsoil and thoroughly water after laying to avoid shrinkage.

11. GRAVEL: Gravel areas to be ornamental gravel, from local source 10-20mm, laid on geotextile membrane to a depth of 50-75mm.

12. 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:

- Eradicate weeds by hand or appropriate chemical means.
- Cut out dead or / and damaged stock or branches, prune as required.
- Ensure all shrubs and trees are firmed in, securely staked and tied with guards where applicable.
- Collect litter, sweep and tidy site.
- Apply suitable non-residual herbicides, pesticides and water as required.
- Carry out mowing to grass areas when attained 100mm, cut to 35mm (50mm for shaded areas) approximately 2 week intervals during the growing season.
- Deciduous ornamental grasses to be cut back hard mid March to late April (depending on species). Evergreen grasses remove dead material.
- All hedges to plot frontages be maintained at a max height of 1.0m. Hedges and shrub planting within visibility plays to be maintained in accordance with current highways design guidelines.
- At final visit apply granular fertiliser to all planted areas and top up bark mulch depth to 75mm.

13. 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

Tree Planting (Standard)

No.	Species Name	Specification	Girth	Height	Density
1 -	Betula utilis jacquemontii	3x :Extra Heavy Standard :Clear Stem 175-200 :5 brks :RB :PG 1	14-16cm	400-450cm	Counted
Total :1 -					

Ornamental Hedgerows

No.	Species Name	Specification	Girth	Diameter	Height	Pot Size	Density	Length
65 -	Berberis buxifolia 'Nana'	Bushy :3 brks :C :PG 8			20-30cm	3L	0.35Ctr	22.6m
103 -	Prunus laurocerasus 'Otto Luyken'	Bushy :5 brks :C :PG 8			40-60cm	5-7.5L	0.45Ctr Double Staggered at 0.35m offset	22.94m
Total :168 -								

Ornamental Planting

No.	Species Name	Specification	Diameter	Height	Pot Size	Density	Area
4 -	Aucuba japonica 'Rozannie'	Bushy :3 brks :C :PG 1		30-40cm	3L	3/m ²	1.17m ²
5 -	Carex pendula	Full Pot :PG GR			2L	3/m ²	1.33m ²
3 -	Euonymus fortunei 'Blondy'	Bushy :7 brks :C :PG 8	20-30cm	20-30cm	3L	3/m ²	0.99m ²
10 -	Hedera colchica 'Arborescens'	Bushy :2 brks :C :PG 11		20-30cm	2L	4/m ²	2.29m ²
6 -	Hedera helix 'Glacier' (*)	Several shoots :3 brks :C :PG 11		40-60cm	2L	3/m ²	1.67m ²
6 -	Pachysandra terminalis 'Green Carpet'	Several shoots :7 brks :C :PG 8	15-20cm		2L	4/m ²	1.44m ²
7 -	Skimmia japonica 'Rubella'	Bushy :4 brks :C :PG 8		30-40cm	5L	3/m ²	2.32m ²
9 -	Skimmia x confusa 'Kew Green'	Bushy :4 brks :C :PG 8		30-40cm	5L	3/m ²	2.58m ²
30 -	Vinca major 'Variegata'	Several shoots :3 brks :C :PG 6	30-40cm		2L	5/m ²	5.58m ²
11 -	Weigela florida 'Folius Purpureis'	Branched :4 brks :C :PG 2		40-60cm	3L	3/m ²	3.49m ²
Total :91 -							Total :22.86m ²

Herbaceous Planting

No.	Species Name	Specification	Diameter	Height	Pot Size	Density	Area
12 -	Ajuga reptans 'Atropurpurea'	Full Pot :C :PG HB			1L	7/m ²	1.64m ²
6 -	Alchemilla mollis	Full Pot :C :PG HB			2L	3/m ²	1.71m ²
7 -	Liriope muscari	Full Pot :C :PG HB			2L	6/m ²	1.07m ²
7 -	Tellima grandiflora	Full Pot :C :PG HB			2L	3/m ²	2.04m ²
Total :32 -							Total :6.46m ²

Grass Areas

Abbreviation	Turf / Seed Mix Name	Seed Mix Supplier	Sowing Rate	Total Weight	Area
TILL	Tilliers Arena Turf	Tilliers Turf	1/m ²		74.71m ²
Total :32 -					Total :74.71m ²

LEGEND: SOFT LANDSCAPING

- GROUND COVER: deciduous shrub ground cover planting with specimen shrubs.
- GROUND COVER: evergreen shrub ground cover planting with specimen shrubs.
- GROUND COVER: herbaceous ground cover planting with specimen shrubs.
- GROUND COVER: ornamental grass ground cover planting as detailed.
- HEDGE: evergreen shrub hedge as detailed.
- GRASS: cultivated turf as notes.
- ORNAMENTAL GRAVEL: pea gravel from local source; 50-75mm minimum depth; refer to notes.
- EXISTING HEDGE: dead plants and bramble to be removed & hedge gapped up with native species.
- EXISTING HEDGE / VEGETATION: to be removed to facilitate development.

- TREE PLANTING: deciduous tree planting with NHBC radii. Tree Canopy spread illustrated at 25 years growth.
- TREE PLANTING: mature tree spread illustrated at 50+ years growth.
- EXISTING TREES: to be retained in accordance with BS 5837 'Trees in relation to Construction' 2012.
- EXISTING TREES: to be removed to facilitate development.

NHBC Guidelines 2017 Chapter 4.2 'Building near trees':

NHBC tree radii illustrated based on Medium soils assuming foundation depth of 0.9m. Buildings within the NHBC tree radius should be designed so that their foundations are to a suitable depth in accordance with the NHBC guidelines. Where tree species are not listed within the NHBC guidance the radii has been calculated on the assumption of a HIGH water demand tree.

Asterisk (*) on planting tags identify shrubs with a mature height above 1.5m where adjacent foundation should be designed by Engineers in accordance with NHBC guidelines 2017 Tables 3 or 5 of sections D & E.

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rev	date:	amendments:	alt:
P01	25/02/26	First issue	DP

cdm 2015; designers residual risk information

LEGEND: CDM RESIDUAL RISKS

- 1. LEVEL CHANGES: changes in level across the site including ramped access, steps, slopes or ditches, restricting access with risk of operatives falling from height.
- 2. RETAINING WALLS: within external soft and hard landscape; risk of operatives falling from height.
- 3. PEDESTRIAN & VEHICULAR TRAFFIC: car park, road and pavement within or adjacent to working areas; risk of collision with operatives, risk of harm to pedestrians.
- 4. EXISTING SERVICES: proximity of adjacent buildings and associated buried / overhead live services i.e electricity or gas. Risk to operatives during excavations or moving plant.
- 5. PUBLIC FOOTPATH: pedestrians within or adjacent to working areas. Risk of injury to the general public.

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.



client:

Design Studio Architects

project:

122-124 Station Road, Ratby, Leicester, LE6 0JP

title:

Detailed Soft Landscape Proposals

status:

PLANNING

date:	drawn:	number:
Feb '26	STAFF	BEA-26-019-01
scale@A1:	checked:	revision:
1:100	ECH	P01

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