INDICATIVE SPECIES LIST

INDICATIVE SPECIES LIST
Detailed planting scheme shall be based on the following species that incorporate recommendations by the project Ecologist.

Lawns to private gardens
Design intent: Lawns regularly mown to create an attractive foil to the surrounding planting whilst maximising biodiversity benefits.
- Lawns: High quality species-rich lawn turf (Species Rich Lawn Turf by Wildflower Turf Ltd or similar approved).

Amenity areas
- Design intent: Neatly edged areas of species-rich flowering meadow for enhanced biodiversity and visual interest. To have close mown border where it abuts roadways and paths, and mown amenity grassed areas.
- High quality species-rich seed or turf to wider landscape (EM5 Meadow Mixture for Loamy Soils by Emorsgate Seeds or similar approved)

Native planting to SUDs basins
Design intent: Species-rich grass mix suitable for SUD's features with areas of herbaceous species to enhance biodiversity and provide visual amenity whilst reducing scouring and trapping contaminants. Species chosen to withstand occasional inundation. Reed beds of native species where indicated.
- Deschampsia cespitosa (Tufted hair grass)
- Glyceria maxima (Reed Sweet Grass)
- Iris pseudacorus (Yellow flag iris)
- Lychnis flos-cuculi (Ragged robin)
- Lythrum salicaria (Purple-loosestrife)
- Molinia caerulea (Purple moor grass)
- Persicaria bistorta (Common bistort)
- Phragmities australis (Norfolk reed)
- Primula vulgarus (Primrose)

Native shrub mix to boundary buffers
Design intent: To provide enhanced commuting and foraging routes for badgers, enhance biodiversity and contribute to green infrastructure. Allow for approx. 20% shrub coverage of supplementary planting. Invasive non-native species to be removed.
Whips (60-100cm) planted amongst existing vegetation and oversown with EM5 Meadow Mixture for Loamy Soils

- Crataegus monogyna
- Prunus spinosa
- Corylus avellana
- Salix cinerea oleifolia/Salix caprea
- Rosa canina
- Rosa arvensis
- Lonicera periclymenum
- Rubus fruticosus agg

Clipped hedges to front gardens
Design intent: 0.9 - 1.2m high single-species hedging planted to demarcate ownership, provide all-year round landscape structure and provide biodiversity benefits
Where space permits:
- Carpinus betulus (Hornbeam) (100-125cm ht.)
- Fagus sylvatica/Fagus sylvatica Atroprupurea Group (Beech/Copper beech) (100-125cm ht.)
- Escallonia var. (40-60cm)
- Ligustrum vulgare (Wild Privet) (80-100cm ht)

Where space is more limited or sight lines demand, low, informal hedges to demarcate ownership, provide all-year round landscape structure and provide biodiversity benefits:
- Berberis thunbergii atropurpurea (Purple Barberry) (60-80cm ht.)
- Hebe var. (30-40cm ht.)
- Lavandula angustifolia 'Munstead' (Lavender) (20-30cm ht)

Shrub, herbaceous and groundcover planting to public realm and private front gardens.
Design intent: Ornamental and native shrubs, herbaceous, bulbs and groundcover to provide year-round interest, biodiversity, security and privacy. Typically planting at 3-5/m2 for 2/3Lspecimens.
Bulbs of top-size typically 10-15/m2.
- Ajuga reptans (Bugle)
- Bergenia var.
- Campanula var
- Cornus sanguinea
- Digitalis var. (Foxglove)
- Euphorbia amygdaloides,
- Geranium var.
- Geum var.
- Hebe var.
- Helleborus foetidus
- Iris foetidus
- Lavandula var.
- Mahonia var.
- Narcissus var.
- Roses
- Rosmarinus officinallis 'Miss Jessop's Upright' (Rosemary)
- Sarcococca confusa
- Stachyus officinalis (Betony)
- Thymus var. (Thyme)
- Verbena bonariensis (Vervain)
- Viburnum ap.
- Native Ferns (Asplenium, Dryopteris, Athyrium)
- Ornamental Grasses (Festuca, Miscanthus, Deschampsia)

Climbers and wall shrubs
Design intent: Climbers and wall shrubs which support wildlife to be planted against walls and fences which face the public realm to soften the streetscape and enhance security. Typically 3L.
- Clematis montana var.
- Lonicera periclymenum var.
- Jasminum officinale
- Pyracantha var.
- Roses

SPECIFICATION NOTES

1. General.
This plan to be read in conjunction with the following documents:
- Risk Register by terra firma
- Ecological Appraisal and Protected Species Surveys by Lindsay Carrington Ecological Services
- Arboricultural report by Barrell Tree Consultancy

2. General landscaping.
i. Existing levels to be preserved around retained existing trees and vegetation. Existing trees and vegetation to be retained are to be protected in accordance with BS5837: 2012 during construction or as detailed in Tree Protection Plan.
ii. All landscape works to be undertaken by competent persons, with appropriate training and equipment.
iii. All arisings to be removed from site at contractor's expense unless noted otherwise. (e.g. woodchip, gravel, topsoil, timber sleepers).

3. Services.
The contractor must ascertain for himself/herself the exact location of underground services before commencing work.

4. Soil Materials Generally.
i. Purity: Soils shall be free from roots, stolons, rhizomes, propagules of perennial or invasive weeds couch grass, bindweed, docks, Japanese knotweed, giant hogweed and horsetail/marestail (Equisetum avense).
ii. Foreign matter: On visual inspection, free from non-soil material, brick and other building materials and wastes, sharps, and any other foreign matter or material or substance that would render the soil or soil ameliorant unsuitable for use.
iii. Contamination: Do not use topsoil, subsoil, sand or compost contaminated with rubbish or other materials that are:
 - Corrosive, explosive or flammable;
 - Hazardous to human or animal life;
 - Detrimental to healthy plant growth.
iv. Give notice: If any evidence or symptoms of soil contamination are discovered on the site or in topsoil, subsoil, sand or compost or other planting media to be used.

5. Soil handling and depths.
Management of soils to be in accordance with the Construction Code of Practice for the Sustainable Use of Soils on Construction Sites
i. Topsoil and subsoil to be handled (i.e. excavated and/or imported, stored, spread, cultivated) in accordance with method agreed in writing by Landscape Architect prior to work commencing. All topsoil and subsoil areas shall be thoroughly cultivated by hand or suitable machinery to the full depth of the topsoil layer, incorporating ameliorants as required. If compaction is suspected in sub-grade, subsoil or topsoil surfaces, these should be ripped as necessary to decompact and ensure adequate drainage.
ii. Hand cultivations shall be carried out to achieve the required finish on areas where machine cultivation is impossible ie adjacent to kerbs, manholes and footpath junctions, around retained trees etc. Surplus plant matter, rubbish and surface stones having any dimension greater than 25 mm shall be collected and removed from the site. Topsoil and subsoil is to be stored in heaps, maximum of 2m in height, providing soil is reasonably dry and friable during stripping and handling - using a tracked excavator. To protect from wet weather once final height is achieved, an excavator should regrade the sides and top of stockpile to firm surface by tracking across it to form a smooth gradient.
iii. Final topsoil depth (allowing for settlement) to be 300mm for tree pits and general planting areas and 150mm for grass. Finished soil levels to be 25mm above/below adjoining paving or kerbs: not less than 150mm below dpc of adjoining buildings; shrub areas to be higher than adjoining grass areas by 25 mm. Topsoil to be spread in lightly compacted layers, max. 150mm depth, gently firm each layer before spreading the next.

6. Plant handling and establishment.
Plant handling shall be in accordance with 'Handling and establishing landscape plants', published by the CPSE through the JCLI. The contractor shall comply with Part 3: Recommendations for plant handling from delivery to site to ensure successful establishment.

7. General planting notes.
Details for tree, hedge and general planting to be finalised once final site conditions are known (i.e compaction and permeability of ground). General plant stock to conform to BS 3936, advanced nursery stock to BS 8545, and planting to BS 4428. Plants shall be first class examples of their species or variety, free from all pests and diseases, with good fibrous root systems and materially undamaged. All planting operations to be in general compliance with BS4428: 'Code of Practice for general landscape operations'.
Only carry out all planting while soil and weather conditions are suitable:
- Do not plant during periods of frost or strong winds. Plant only during the following periods
- Deciduous and conifer trees: Late October to late March (rootball and bare root)
- Container grown plants: At any time if ground and weather conditions are favourable. Ensure that adequate watering is provided
- Bulbs : September/October

Setting out of planting beds to be approved by Landscape Architect before work commences. Ensure that plant beds are neatly defined, and rise from adjacent paved areas as specified above. All tree pits, tree circles in lawn and planting beds are to be mulched with approved bark mulch to 75mm depth after planting.

8. Tree planting
Any proposed substitutions of species shown on plan to be approved by landscape architect prior to planting. Details for tree planting to comply with BS8545. As a guide all trees to be planted in square pits with base undisturbed unless drainage / compaction problems known. Plant at a depth where the root flare is clearly visible at the soil surface. Where trees have been supplied with the root flare too deep excess soil or fibrous root growth should be removed before planting. All trees to have 'Piddler' tree irrigation/aeration system installed as supplied by Platipus 01737 762300 www.platipus-anchors.com or approved equivalent. Water-in heavily after planting and mulch surface, ensuring mulch is not in contact with trunk of tree. Tree support to comply with BS 8545: Bare root trees to have a single upright stake; RB or CG trees to have double stake and bridge with adjustable tie; multi stemmed trees or trees on slopes to have angled single stake with adjustable tie; in windy locations or for large trees, install wired guying. Trees to be underground guyed shall have suitable guying systems installed as supplied by Platipus 01737 762300 www.platipus-anchors.com or approved equivalent. Any necessary remedial tree works are to be carried out by an approved tree surgeon to BS 3998. Trees planted within grass areas to be set in mulched earth circles, 1m diameter around tree trunk, with turf trimmed neatly to form circle.
iij. Trees up to 20cm girth.
Depth of tree pits to be the same as the rootball and with overall width to be 150mm wider than the diameter of the rootball (75mm min. from rootball edge to tree pit side). Pits to be backfilled with 300mm depth of specified topsoil over subsoil as per spec.

9. Hedges.
Depth of planting trench to be same as rootball, overall width150mm wider than rootball (75mm min. from rootball edge to sides of trench). Trench to be backfilled with 300mm depth of specified topsoil over subsoil as per spec. Fertiliser to be incorporated as required to ensure establishment and continued thriving of plants - type and application rate to be determined by analysis. 1m ht central post and wire supporting to be provided with two line wires and plants to be tied in using horticultural plastic ties. On planting, hedges to be trimmed to height specified on plan and sides trimmed to neat shape where necessary.

10. Native hedges.
Species to be randomly mixed for natural effect, and planted in groups of 3-5 plants of any one species. Depth of planting trench to be same as root system, overall width space 150mm wider than root system (75mm min. from root system edge to sides of trench). Trench to be backfilled with 300mm depth of specified topsoil over subsoil as per spec. Provide and install each plant with an appropriate sized recyclable staked green shrub shelter (available from Tubex Ltd, phone 01621 874201 or similar approved). Position shelter stake on windward side of plant, drive vertically into bottom of pit before planting, to a min. depth of 300mm and consolidate backfill material around stake; attach shelter to stake with a minimum of two ties.

11. Native tree and shrub mixes.
All plants to be planted in cultivated planting beds with species randomly mixed for natural effect, and planted in groups of 3-5 plants of any one species. Plants to be notch- or pit-planted. Plant on grid at spacing given in schedule. Provide and install each plant with an appropriate sized recyclable staked green tree or shrub shelter (available from Tubex Ltd phone 01621 874201 or similar approved). Position shelter stake on windward side of plant, drive vertically into bottom of pit before planting, to a min. depth of 300mm and consolidate backfill material around stake; attach shelter to stake with a minimum of two ties.

12. Specimen Shrubs.
Depth of planting pit to be same as rootball, overall width space 100mm wider than rootball (50mm min. from rootball edge to sides of pit). Pit to be backfilled with 300mm depth of specified topsoil over subsoil as per spec. Fertiliser to be incorporated as required to ensure establishment and continued thriving of plants - type and application rate to be determined by analysis.

13. Shrub and Ground Cover Planting.
All plants to be planted into cultivated planting beds (with 300mm depth specified topsoil) at densities shown in plant schedule, backfilled with same topsoil. Fertiliser to be incorporated as required to ensure establishment and continued thriving of plants - type and application rate to be determined by analysis.

14. Climbers and wall shrubs.
All climbers to be planted as 13 above and provided with steel line wires attached to the wall/fence (min 3 no.) at 300mm vertical spacing with climbers spread out and tied to wires using appropriate horticultural ties. Fertiliser to be incorporated as required to ensure establishment and continued thriving of plants - type and application rate to be determined by analysis.

15. Bulb planting.
All bulbs to be planted at the rate given in the schedule, in random mixed drifts of single species in areas indicated on the plan, minimum 15 bulbs per drift of single species. For planting, naturalize bulb positions by dropping bulbs from waist height. Neatly remove a plug of turf and replace after planting. Plant so that the top of the bulb is at a depth of approximately twice its height with base in contact with bottom of hole. Bulbs should be no closer together than approximately twice the width of a single bulb.

16. Grass.
Turfing and seeding shall be carried out only during appropriate seasons and while soil and weather conditions are suitable for the relevant operations. Only machinery and tools suitable for the site conditions and the work to be carried out shall be used. Hand tools shall be used around trees, plants and in confined spaces where it is impractical to use machinery. The soil shall be weed free prior to turfing and seeding. Contact herbicide as specified should be applied to all areas of weed growth 4-6 weeks before grassing and repeated if necessary to maintain a weed free bed. Where deep rooted weeds are present (docks, thistles etc.) approved Glyphosate-based herbicide should be applied as a spot treatment. Turf or seed shall be laid on prepared, levelled soil (minimum 150mm depth) in the areas indicated on the drawings in accordance with BS 4428:1989 'Code of practice for general landscape operations'. All grass areas to be approved landscape quality turf for general amenity areas or lawn turf for garden areas, or equivalent seed.

17. Species-rich grass.
Establish seed mix & soil requirements from supplier.

18. Root barrier.
Root barrier system to be used in locations determined by engineers in order to protect services. To be supplied by GreenBlue Urban 01424 717797 or other approved supplier. Thickness, size and depth of installation of root barrier to be to manufacturer's recommendations for particular circumstances.

19. Maintenance.
Establishment maintenance for all planting for 5 years from Practical Completion to include weed control, watering and replacement of failures to original specification in the planting season following failure.
- All plant material to receive annual pruning and hedges and groundcover to be trained and edged with minimum 2 trims per year.
- Check tree stakes and ties annually and after strong winds.
- Check shrub shelters at least twice annually to remove weeds and any soil build up inside tube. Shelters to be removed in year 3 and recycled.
- Native shrubs plants to be trimmed during winter just after planting, then twice annually in summer and autumn to encourage lower branching and dense growth.
- Lawn & amenity grass areas - Mowing is to be carried out using approved machinery to maintain the vegetation length within the limits of 30 mm and 50 mm during April to August inclusive and between 50 mm and 70 mm during the rest of the year.
- Species-rich grassland. Meadow grass areas where left un-mown to receive a main summer hay cut in combination with autumn and spring mow. Leave grass to flower from spring through to late July/Aug to give sown species the opportunity to flower. After flowering carry out a 'hay' cut with a strimmer to 50mm. Leave 'hay' to dry and shed seed for 1-7 days then remove from site. Mow regrowth through to late autumn to 50mm and again in spring as needed.

Structural Planting - Site-wide

Trees

Abbreviation	Species	Specification	Qty.
Acer_camp (12-14)	Acer campestre	12-14cm girth 3.5-4m ht. BR or CG	23 No.
Acer 'Street.'	Acer campestre 'Streetwise'	12-14cm girth 3.5-4m ht BR or CG	5 No.
Alnu_glut (12-14cm)	Alnus glutinosa	12-14cm girth 3.5-4m ht. BR or CG	4 No.
Betu 'Fasc'	Betula albosinensis 'Fascination'	10-12cm girth 3.5-4m ht. BR RB or CG	9 No.
Crat_mono	Crataegus monogyna	12-14cm girth 3.5-4m ht. BR or CG	5 No.
Lirio_tulipi	Liriodendron tulipifera	14-16cm girth 4-4.5m ht. RB or CG	3 No.
Malu_sylv	Malus sylvestris	10-12cm girth 3-3.5m ht. BR or RB	3 No.
Prun_aviu	Prunus avium	12-14cm girth 3.5-4m ht. BR or CG	5 No.
Prun 'Plen.'	Prunus avium 'Plena'	12-14cm girth 3.5-4m ht. BR or CG Colt rootstock	2 No.
Prun_laur 'M'	Prunus laurocerasus 'Magnifolia'	Pleached; 150-200cm frame; 175cm clear stem; 4-5 tiers	56 No.
Prun_padu 'Albertii'	Prunus padus 'Albertii'	12-14cm girth 3.5-4m ht. BR or CG	5 No.
Prun_subh 'A.R.'	Prunus subhirtella 'Autumnalis Rosea'	10-12cm girth 3-3.5m ht. BR or CG	2 No.
Quer_robu (14-16cm)	Quercus robur	14-16cm girth 4-4.5m ht. 5 breaks RB or CG	4 No.
Sorb torm	Sorbus torminalis	12-14cm girth 3.5-4m ht. BR or CG	12 No.
Ulmus 'NH'	Ulmus 'New Horizon'	14-16cm girth 4-4.5m ht. BR or CG	1 No.

Fruit Trees

Abbreviation	Species	Specification	Qty.
Cydo 'Vranja'	Cydonia oblonga 'Vranja'	2-5 years; half standard;	1 No.
Malus 'H.D.A.'	Malus 'Hambledon Deux Ans'	EMLA M26 Rootstock 2-5 years; half standard;	2 No.
Malus 'Howg W.'	Malus 'Howgate Wonder'	EMLA M26 Rootstock 2-5 years; half standard;	1 No.
Malus 'King Pip.'	Malus 'King of the Pippins'	EMLA M26 Rootstock 2-5 years; half standard;	1 No.
Malus 'Bram.'	Malus domestica 'Bramley's Seedling'	EMLA M26 Rootstock 2-5 years; half standard;	1 No.
Malus 'D.B.B'	Malus domestica 'Deacon's Blushing Beauty'	EMLA M26 Rootstock 2-5 years; half standard;	1 No.
Malus 'Steyne'	Malus domestica 'Steyne Seedling'	EMLA M26 Rootstock 2-5 years; half standard;	1 No.
Prunus 'Stella'	Prunus avium 'Stella'	Gisela 5 rootstock; 2-5 year; half standard;	1 No.
Prunus 'Morello'	Prunus cerasus 'Morello'	Gisela 5 rootstock; 2-5 year; half standard;	1 No.
Prunus 'CG'	Prunus domestica 'Cambridge Gage'	Pixy; 2-5 year; half standard;	1 No.
Prun 'Marj. Seed.'	Prunus domestica 'Marjorie's Seedling'	Pixy; 2-5 year; half standard;	1 No.
Prun_Vict	Prunus domestica 'Victoria'	Pixy; 2-5 year; half standard;	2 No.
Plum 'M deN '	Prunus insititia 'Mirabelle de Nancy'	Pixy; 2-5 year; half standard;	1 No.
Pyrus ' Beth'	Pyrus communis 'Beth'	QA Rootstock 2-5 years; half standard;	2 No.

Native Hedges

Abbreviation	Species	Specification	Density	% Mix	Qty.
Acer_camp	Acer campestre	80-100cm ht BR	0.5Ctr Double Staggered at 0.25m offset	30%	531 No.
Cory_avel	Corylus avellana	80-100cm ht BR	0.5Ctr Double Staggered at 0.25m offset	20%	358 No.
Crat_mono	Crataegus monogyna	80 - 100cm RB	0.5Ctr Double Staggered at 0.25m offset	20%	358 No.
Ilex_aqui	Ilex aquifolium	60-80cm ht CG or bagged	0.5Ctr Double Staggered at 0.25m offset	5%	94 No.
Loni_peri	Lonicera periclymenum	60-80cm ht CG or BR	0.5Ctr Double Staggered at 0.25m offset	5%	94 No.
Prun_spin	Prunus spinosa	80 - 100cm RB	0.5Ctr Double Staggered at 0.25m offset	20%	358 No.

Clipped Hedges

Abbreviation	Species	Specification	Density	Qty.
Esca 'Iveyi'	Escallonia 'Iveyi'	60-80cm ht. 10L CG	3/m	330 No.
Fagu_sylv	Fagus sylvatica	80-100cm ht BR	0.5Ctr Double Staggered at 0.25m offset	365 No.
Ilex_aqui	Ilex aquifolium	60-80cm ht; CG	3/m	331 No.

0m 5m 10m

north

- All dimensions in millimetres unless otherwise indicated. All levels in metres relative to Ordnance Datum and are positive (AOD) unless otherwise indicated.
- Figure dimensions only to be taken from this drawing. Dimensions and levels to be checked on site.
- Do not re-scale this drawing.
- For civil and structural matters including existing and proposed services, sub-base construction and site structures (including retaining walls over 900mm height) refer to information by others.
- The original version of this drawing was produced in colour - monochrome copies should not be relied upon to accurately reflect all drawing elements.
- This drawing has been prepared for planning purposes only and should not be used for quantification, tender or construction.

rev.	date	by	chk	notes
P05	14.11.24	MH	-	Minor clarifications to specification, following Bargate comment
P04	04.11.24	MH	-	Updated to revised Architects layout BARG230421-SL.01-B. (hedgerow lengths altered)
P03	23.07.24	MH	-	Change of species mix within native hedgerow
P02	19.07.24	NC	MH	Amendments made following comments
P01	02.07.24	NC	MH	First issue

project Manor Farm, Bedhampton, Phase II

title Specifications

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references

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