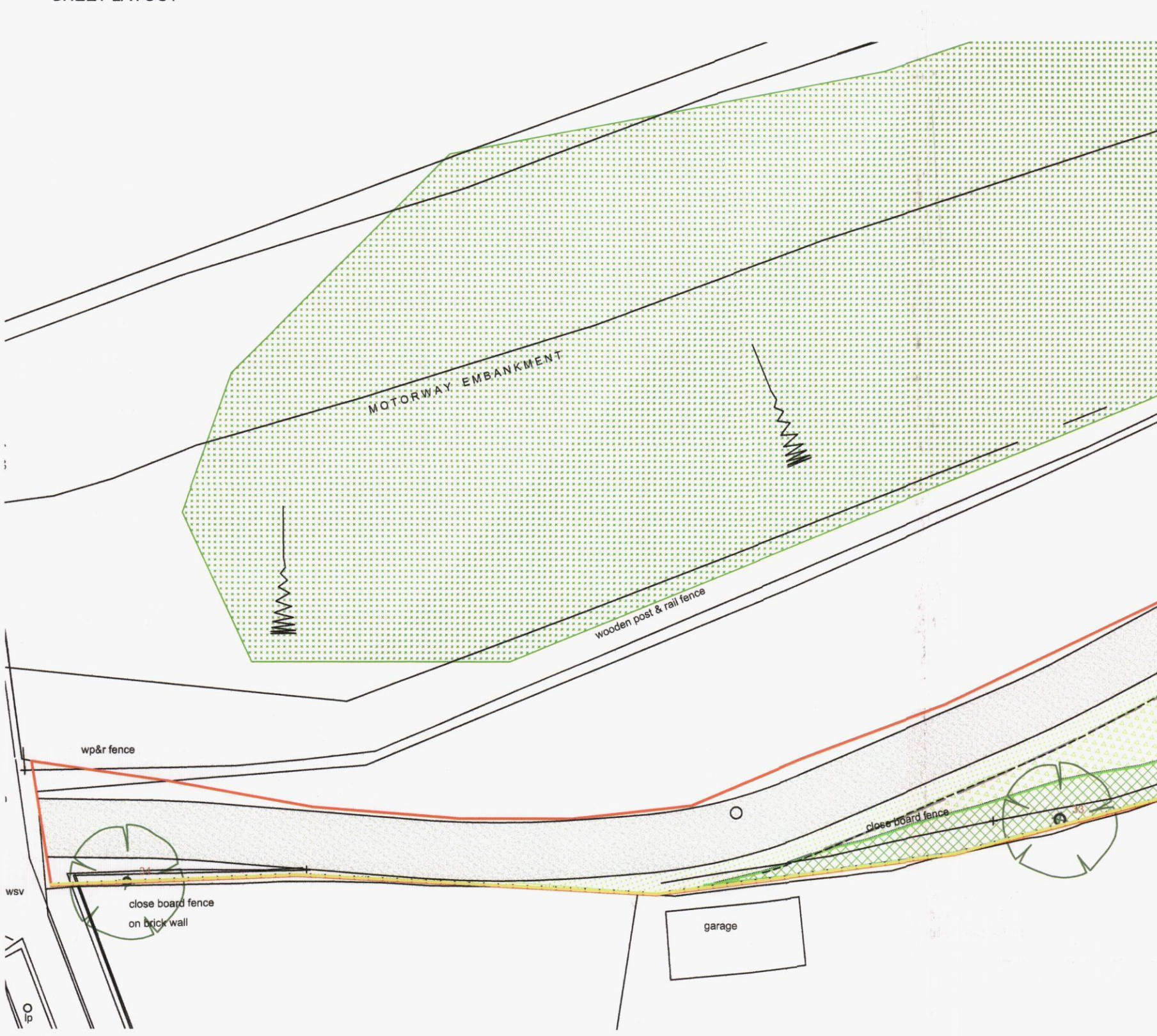




SHEET LAYOUT



Abbreviation	Species	Specification	Number of Plants
Acer 'Street'	Acer campestre 'Street Wise'	14-16cm girth 4.5-5m ht	19 No.
Acer_camp	Acer campestre	14-16cm girth 4.5-5m ht	20 No.
Alnu glut	Alnus glutinosa	10-12cm girth CG or RB	5 No.
Appl 'COP'	Apple 'Cot's Orange Pippin'	10-12cm girth RB or CG	6 No.
Appl 'Jana'	Apple 'Jangasid'	10-12cm girth RB or CG	11 No.
Betu_pend	Betula pendula	14-16cm girth 4.5-5m ht	16 No.
Cher 'Sunk'	Cherry 'Sunburst'	10-12cm CG or RB	12 No.
Crata_mono	Crataegus monogyna	14-16cm girth 4.5-5m ht	11 No.
Ilex_aqui	Ilex aquifolium	10-12cm girth CG or RB	11 No.
Malu_hupe	Malus hupehensis	14-16cm girth 4.5-5m ht	4 No.
Pear 'Conco'	Pear 'Concord'	10-12cm girth RB or CG	7 No.
Pear 'Villars'	Pear 'Villars'	10-12cm girth RB or CG	5 No.
Pinu_sylv	Pinus sylvestris	3-3.5m ht	15 No.
Plum 'Vici'	Prunus 'Victoria'	10-12cm girth RB or CG	11 No.
Pyr 'Chant Cap'	Pyrus calleryana 'Capital'	14-16cm girth 4.5-5m ht	4 No.
Quer robu	Quercus robur	14-16cm girth 4.5-5m ht	42 No.
Tilia 'Street'	Tilia cordata 'Streetwise'	14-16cm girth 4.5-5m ht	25 No.

PLANTING PALETTE FOR FRONT GARDEN PLANTING STRIPS

Design intent is to provide mixed planting giving some structure in winter and colour throughout the year. Plants chosen are robust, do not require specialist maintenance, are of suitable size for narrow beds and will not block windows. Climbers are to be used where there is a blank wall between windows/doors.

species	size	density
Ceanothus thyrsiflorus 'Repens'	30-40cm diam 3L CG	5/m2
Ceanoteaster salicifolius 'Gnom'	40-60cm diam 3L CG	5/m2
Fuchsia 'Riccartonii'	20-30cm ht. 3L CG	4/m2
Fuchsia 'Mrs Popples'	20-30cm ht. 3L CG	5/m2
Hebe 'Mrs Winder'	30-40cm ht. 3L CG	4/m2
Hebe 'Nicola's Blush'	40-60cm ht. 10L CG	2/m2
Hebe pingulifolia pagel	20-30cm diam 3L CG	5/m2
Hypericum calycinum	30-40cm ht. 3L CG	6/m2
Hypericum 'Hidcote'	30-40cm ht. 10L CG	4/m2
Levandula 'Munstead'	30-40cm ht. 10L CG	4/m2
Mahonia aquifolium 'Apollo'	20-30cm ht. 3L CG	5/m2
Mahonia x media 'Charity'	60-80cm ht. 10L CG	1/m2
Potentilla fruticosa 'Elizabeth'	40-60cm ht. 10L CG	2/m2
Potentilla fruticosa 'Red Ace'	40-60cm ht. 10L CG	2/m2
Potentilla fruticosa 'Sunset'	40-60cm ht. 10L CG	2/m2
Prun laurocerasus 'Otto Luyken'	30-40cm ht. 3L CG	4/m2
Rosmarinus officinalis 'McConnells Blue'	40-60cm ht. 3L CG	4/m2
Santolina virens	20-30cm ht. 3L CG	5/m2
Sarcococca confusa	20-30cm ht. 3L CG	6/m2
Viburnum davidii	20-30cm ht. 3L CG	4/m2

species	size	density
Bergenia cordifolia 'Bressingham White'	3L CG	5/m2
Bergenia cordifolia 'Purpurea'	3L CG	5/m2
Crocodylus 'Lucifer'	3L CG	6/m2
Euphorbia amygdaloides var. robbiae	2L CG	5/m2
Geranium 'Johnsons Blue'	3L CG	4/m2
Geranium macrorrhizum 'Album'	3L CG	6/m2
Geranium x oxonianum 'Wargrave Pink'	3L CG	6/m2
Liriope muscarifolia	2L CG	6/m2
Liriope muscarifolia 'Monroe White'	2L CG	6/m2
Persicaria bistorta 'Superba'	3L CG	5/m2
Sedum spectabile 'Autumn Joy'	3L CG	5/m2
Sedum spectabile 'Sturdiest'	3L CG	5/m2

species	size	density
Clematis jackmanii 'Superba'	1-1.5m ht. 10L CG with 3 canes	single specimen
Lonicera periclymenum 'Belgica'	1-1.5m ht. 10L CG with 3 canes	single specimen
Rosa 'Climbing Iceberg'	80-100cm ht. 3-4L CG with 3 canes	single specimen
Rosa 'Mme. Alfred Carriere'	80-100cm ht. 3-4L CG with 3 canes	single specimen
Rosa 'New Dawn'	80-100cm ht. 3-4L CG with 3 canes	single specimen

Abbreviation	Species	Specification	Density	Mix Species Contribution	Number of Plants
Acer_camp	Acer campestre	60-80cm ht. BR transplant 1C1r	10%	132 No.	
Com_sang	Cornus sanguinea	60-80cm ht. BR transplant 1C1r	10%	132 No.	
Cory_avel	Corylus avellana	60-80cm ht. BR transplant 1C1r	10%	132 No.	
Crat_mono	Crataegus monogyna	60-80cm ht. BR transplant 1C1r	30%	381 No.	
Ilex_aqui	Ilex aquifolium	60-80cm ht. BR transplant 1C1r	5%	65 No.	
Prun_spin	Prunus spinosa	60-80cm ht. BR transplant 1C1r	10%	132 No.	
Rosa_cani	Rosa canina	60-80cm ht. BR transplant 1C1r	10%	132 No.	
Vibu_opul	Viburnum opulus	60-80cm ht. BR transplant 1C1r	15%	192 No.	

Species	Specification	Density	Mix Species Contribution	Number of Plants
Acer campestre	60-80cm ht. BR transplant 0.5C1r Double Staggered at 0.2m offset	280 No.		
Corylus avellana	60-80cm ht. BR transplant 0.5C1r Double Staggered at 0.2m offset	225 No.		
Crataegus monogyna	60-80cm ht. BR transplant 0.5C1r Double Staggered at 0.2m offset	442 No.		
Ilex aquifolium	60-80cm ht. BR transplant 0.5C1r Double Staggered at 0.2m offset	62 No.		
Prunus spinosa	60-80cm ht. BR transplant 0.5C1r Double Staggered at 0.2m offset	117 No.		

PLANTING PALETTE FOR LARGER COMMUNAL PLANTING BEDS

Design intent is to provide mixed planting giving structure in winter and colour throughout the year. Plants chosen are robust, do not require specialist maintenance, and include larger species suitable for larger beds and to give some height against fences and walls. Climbers to be used against boundary fences and walls.

species	description
Amelanchier lamarckii	1.75-2m ht. 15L container
Magnolia stellata 'Water Lily'	1-1.25m h. 45L container
Viburnum plicatum 'Mariesii'	30 litre container

species	size	density
Buddleia 'Davidii' 'Black Knight'	80-100cm ht. 20L CG	single specimen
Buddleia 'Blue Mound'	40-60cm ht. 10L CG	2/m2
Choisya 'Aztec Pearl'	40-60cm ht. 10L CG	2/m2
Cornus sanguinea	60-80cm ht. 10L CG	2/m2
Hamamelis mollis 'Pallida'	1m ht. 20L CG	single specimen
Hebe 'Great Orme'	30-40cm ht. 3L CG	5/m2
Hydrangea arborescens 'Annabelle'	30-40cm ht. 3L CG	single specimen
Hydrangea arborescens 'Grandiflora'	30-40cm ht. 3L CG	single specimen
Ruscus aculeatus	3L CG	5/m2
Spiraea x 'Arguta'	40-60 3L CG	4/m2
Syringa vulgaris 'Madame Lemoine'	1.75-2m ht. 130L CG	single specimen
Viburnum opulus	80-100cm ht. 10L CG	1/m2
Viburnum davidii	20-30cm ht. 3L CG	4/m2
Viburnum tinus 'Eve Price'	60-80cm ht. 20L CG	single specimen
Weigela florida 'Alexandra'	60-80cm ht. 20L CG	single specimen

species	size	density
Bergenia cordifolia 'Bressingham White'	3L CG	5/m2
Bergenia cordifolia 'Purpurea'	3L CG	5/m2
Euphorbia characias wulfenii	3L CG	3/m2

species	size	density
Clematis arandii	1-1.5m ht. 10L CG with frame	single specimen
Hedera helix 'Green Ripple'	1-1.5m ht. 10L CG with 3 canes	single specimen
Hydrangea petiolaris	80-100cm ht. 10L CG with frame	single specimen
Lonicera periclymenum 'Belgica'	1-1.5m ht. 10L CG with 3 canes	single specimen

species	size	density
Willowherb species	Grade 3/4	Drifts of 15/m2
Frillaria meleagris	Grade 4/5	Drifts of 15/m2
Narcissus pseudonarcissus	Grade 14/15	Drifts of 15/m2
Narcissus pseudonarcissus	Grade 8/10	Drifts of 15/m2

SPECIFICATION NOTES

- General**
Refer to Terra Firma Landscape Management Plan and Azure Ecology Mitigation Statement.
- General landscaping**
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 during construction. All landscape works to be undertaken by competent persons, with appropriate training and equipment. All arisings to be removed from site at contractor's expense unless noted otherwise (e.g. woodchip, gravel, topsoil, timber sleepers).
- Services**
The contractor must ascertain for himself/herself the exact location of underground services before commencing work.
- Topsoil**
Topsoil 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. Amelioration to be as determined by analysis. If poor drainage is suspected in existing soil surfaces, these should be broken up prior to planting, tuffing and seeding to a depth of 300mm to remove likelihood of compaction and damage to new planting and turf.

Where topsoil is to be imported, soil medium parameters to be within the following:

Soil texture:	sand	20-75%
	silt	5-60%
	clay	5-30%
Maximum stone size in any direction:		50mm
pH:		5.5 - 7.8
Electrical conductivity:		100-900 µS/cm
Organic matter:		> 4%
Nitrogen:		> 0.2%
Phosphorus:		> 26 mg/l
Potassium:		> 240 mg/l
Magnesium:		> 50 mg/l

Imported topsoil to be a good quality loam to BS 3882. Soil to be in accordance with the 'Topsoil and Subsoil Specification' document. All topsoil areas shall be thoroughly cultivated by hand or suitable machinery to the full depth of the topsoil layer, incorporating ameliorants as specified and/or as indicated by analysis and/or as directed by the Landscape Architect. Hand cultivations shall be carried out to achieve the required finish on areas where machine cultivation is impossible adjacent to kerbs, manholes and footpaths junctions etc. Surplus plant matter, rubbish and surface stones having any dimension greater than 25 mm shall be collected and removed from the site. Existing topsoil to be stripped and re-used if suitable as per specification. Topsoil 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.

- Fertilizer/Compost**
Approved (peat free) composts to PAS100 and fertilizers to be added during cultivation as required to full depth of growing medium.
- Plant handling**
Plant handling at the nursery, and during transit up to delivery, shall be in accordance with 'Plant Handling', the booklet published by the Committee for Plant Supply and Establishment (CPSE). The contractor shall comply with clauses 3 & 4 of the above booklet (obtained from the Horticulture Trades Association, 19 High Street, Theale, Reading, Berks RG7 5H) which refers to the receipt, unloading and temporary storage of plants. General plant stock to conform to BS 3936, advanced nursery stock to BS 5236, and planting to BS 4426. 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 (refer to relevant sections of BS3936 Parts 1-4 'Specification of Nursery Stock'). All planting operations to be in general compliance with BS4428: 1989 'Code of Practice for general landscape operations (excluding hard surfaces)'. 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
- Container grown plants: At any time if ground and weather conditions are favourable. Ensure that adequate watering and weed control 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 free from adjacent paved areas. All ornamental planting areas to be mulched with 75mm (settled depth) bark mulch. Sample of mulch to be approved by Landscape Architect. Topsoil depth to be 450mm for planting and 150mm for grass.

- Trees**
Trees shown on plan to be planted with species as labelled or similar approved. All trees to be planted in pits 1m x 1m x 0.9m deep backfilled with 500mm deep 80% clean topsoil and 20% approved green compost to PAS100 and 100 gms granular fertilizer, over 400mm washed medium coarse grade sand bed to base of pit. Water-in heavily after planting and surface mulched 75mm depth. All trees to be double staked and tied and multi stems diagonal single stake. Sample of staking for each species to be approved. Tree stakes to be stained black. Any necessary tree works are to be carried out by an approved tree surgeon to BS 3998. Trees planted in grass lawn to be set in bare earth circles, 1m diameter around tree trunk, with turf trimmed neatly to form circle, and earth mulched with approved bark mulch to 75mm depth after planting.

- Native Hedges**
Plants to be 60-80cm BR 1 + 1 or 1 + 2 transplants; shrubs 8-10 root collar. Hedgerow plants, to be planted to ground. Species to be randomly mixed for natural effect. Plants to be planted in 0.4m wide x 0.3m deep trench, (base decomposed) backfilled with 80% clean topsoil and 20% approved green compost to PAS 100 and 20gms granular fertilizer. The trench to be 2 rows 200mm apart, staggered, at 500mm centres in each row. Provide and install each plant with a recyclable staked green shrub shelter (available from Acorn Planting Products Ltd or similar approved). Check tree guards at least twice annually to remove weeds and any soil build up (caused by ants) inside tube. Shelters to be removed in year 3 and recycled (contact Agri-cycle.uk.com).

- Native Shrub Mix**
Plants to be 60-80cm BR 1 + 1 or 1 + 2 transplants, feathered to ground. Species to be randomly mixed for natural effect, planted in groups of 3-5 plants of any one species. Plants to be notch planted with an application of slow release fertilizer, on a 1m grid. Mulched with approved bark mulch to 75mm depth after planting. Provide and install each plant with a recyclable green shrub shelter 150-180mm diameter, staked as recommended by supplier. Position stake on windward side of shelter/plant and drive vertically into bottom of pit before planting, to a min. depth of 300mm. Consolidate backfill material around stake. Ensure shelters are firmly attached to stake with a minimum of two ties. Shelters to be 'Shelterguard Plus for Shrubs', as supplied by Acorn, tel. 01508 528763, or approved equivalent. Check tree guards at least twice annually to remove weeds and any soil build up (caused by ants) inside tube. Shelters to be removed between years 3-5, when plants are well established and healthy, and recycled (contact Agri-cycle.uk.com). Plants to be trimmed during winter just after planting, then twice annually in summer and autumn to encourage lower branching and dense growth.

- Specimen Shrubs**
All shrubs to be planted in pit of min. size 0.4m x 0.4m x 0.4m deep so as to accommodate full root spread, backfilled with 80% clean topsoil and 20% approved green compost to PAS100 and 20 gms granular fertilizer. All shrub beds to be mulched with 75mm depth approved bark mulch after planting.
- Shrub & Ground Cover Planting**
All plants to be planted in cultivated planting beds at densities shown in plant schedule, in pits of min. size 0.3m x 0.3m x 0.3m deep so as to accommodate full root spread, backfilled with 80% clean topsoil and 20% approved green compost to PAS100 and 20 gms granular fertilizer. All shrub beds to be mulched with 75mm depth approved bark mulch after planting.
- Ornamental Planting**
All plants to be planted in pit of min. size 0.3m x 0.3m x 0.3m deep so as to accommodate full root spread, backfilled with 80% clean topsoil and 20% approved green compost to PAS100 and 20 gms granular fertilizer. All shrub beds to be mulched with 75mm depth approved bark mulch after planting.

- Climbers**
All climbers to be planted in pit of min. size 0.4m x 0.4m x 0.4m deep so as to accommodate full root spread, backfilled with 80% clean topsoil and 20% approved green compost to PAS100 and 20 gms granular fertilizer. All shrub beds to be mulched with 75mm depth approved bark mulch after planting. All plants to be planted with trellis supports in situ trained to adjacent wall or fence. Steel wires to be provided where climbers are not self-clinging.
- 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.

- Grass/Turf**
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. Seed shall be sown on prepared, levelled soil (minimum 150mm depth) in the areas indicated on the drawings in accordance with BS 4428:1989. All short grass areas to be sown with Emscote Seeds EL1 mix. Areas shown as long grass and grass to detention basins to be Emscote Seeds wildflower mix for clay soils (EM4) at rate of 40gms per metre square - early spring. Banks of detention basins to be sown with a pond edge mix EP1 and plug planting as recommended in Azure Ecology Mitigation Statement.

- Pond**
Permanent clay-lined pond to retain min. 30cm water throughout the year. Muddy pond margins to be planted with common water-crowfoot Ranunculus aquatilis.

- 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. All plant material to receive annual pruning and groundcover to be trained and edged with minimum 2 trims per year. 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.

KEY Existing vegetation (refer to CBA tree survey)

- Existing trees to be retained
- Existing vegetation to be retained
- Existing vegetation to be removed

Proposed planting

- Tree - deciduous
- Tree - conifer
- Native hedge with central post and wire fence
- Native shrubs
- Shrub and groundcover planting - lower plants to front garden planting strips
- Shrub and groundcover planting - larger communal planting beds
- Long grass
- Mown grass
- Wildflower bulb planting (as advised by Azure Ecology)
- Detention basin - wildflower planting (see spec. notes)
- Pond - clay lined permanent pond planted with common water-crowfoot

Proposed paving

- Bitmac - vehicular
- Bitmac - pedestrian
- Block paving
- Slab paving
- Compacted gravel
- Granite setts/rumble strip

Proposed enclosures

- Wall - brick
- Fence - 1.8m high timber close board with timber posts
- Fence - 1.2m high chain link
- Fence - 2m high timber close board with timber posts
- Knee rail - 0.5m high timber post and metal rail
- Fence - 1.2m high timber post and rail

Proposed Habitat Features

- Hibernacula
- Habitat connecting tunnel

revision	date	by	notes
03	01.10.13	AG	Addition of notes regarding planting in permanent pond.
02	16.09.13	WJ	Minor layout changes. Boundary treatment clarified. Existing vegetation to western boundary added.
01	10.06.13	ADC	Minor changes. Existing vegetation clarified.
drawing notes	© Copyright reserved Do not scale from this drawing Figure dimensions only to be taken from this drawing All dimensions to be checked on site		
purpose of issue	PLANNING		
project	SCRATCHFACE LANE, BEDHAMPTON		
drawing title	LANDSCAPE PROPOSALS		
drawing no.	1487-1001		03
scale	1:250 @ A1	date	20.03.13
		drawn by	PS
		checked by	AG

