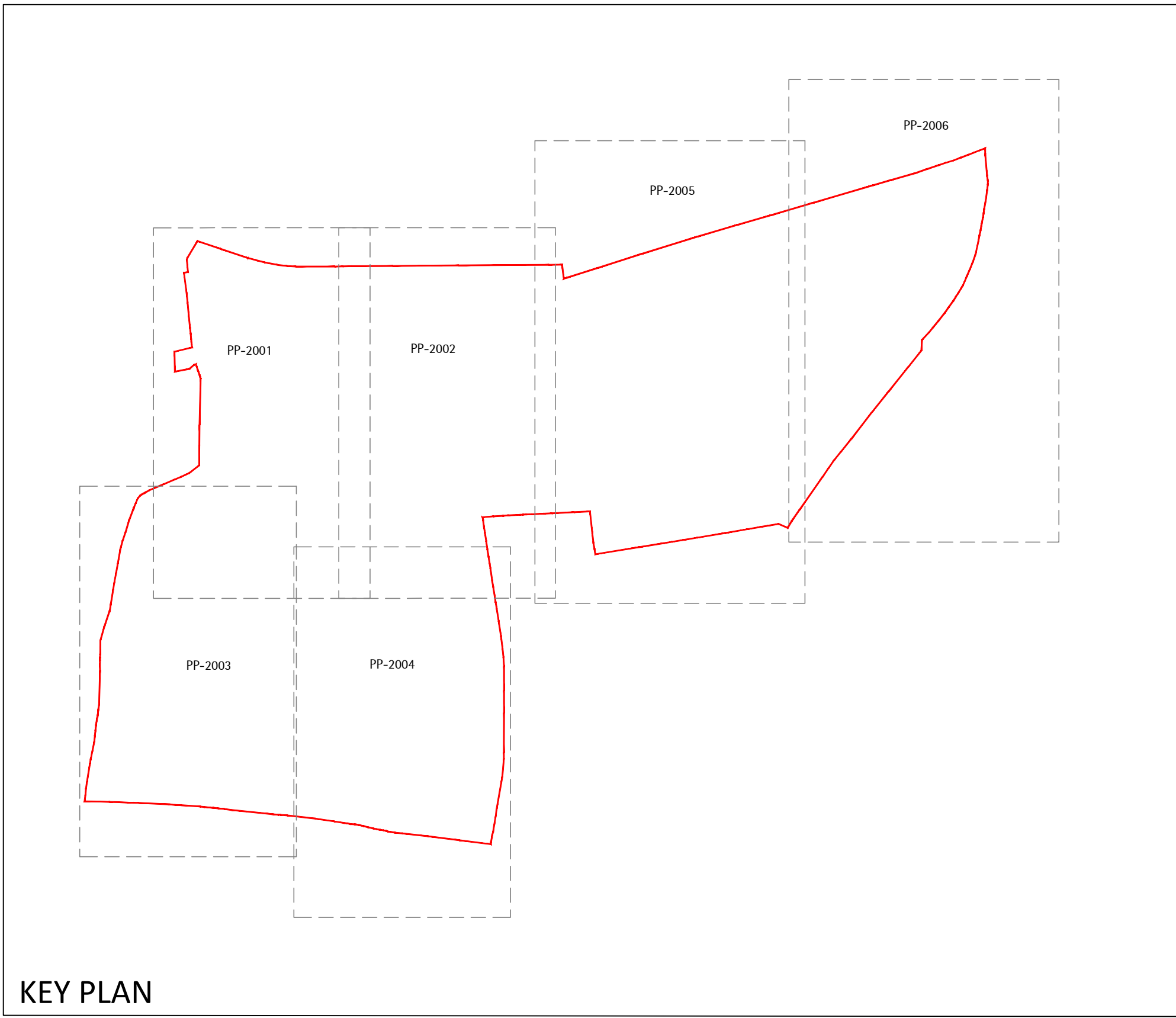




KEY PLAN

Plant Schedule

Trees							
QTY	UNIT	PLANTNAME	STOCK	FORM	GIRTH/HEIGHT	SPECIFICATION	
6 No.		Aesculus hippocastanum	RB	STD	14-16cm	clear stem min. 200cm	
12 No.		Acer campestre	RB	STD	14-16cm	clear stem min. 200cm	
7 No.		Ainus glutinosa	RB	STD	14-16cm	clear stem min. 200cm	
12 No.		Betula pendula	RB	STD	14-16cm	clear stem min. 200cm	
4 No.		Betula pubescens	RB	STD	14-16cm	clear stem min. 200cm	
3 No.		Carpinus betulus	RB	STD	14-16cm	clear stem min. 200cm	
3 No.		Corylus avellana	RB	STD	14-16cm	multi-stem; bushy; 3 stems minimum	
5 No.		Crataegus monogyna	C	STD	10-12cm	2x Selected Standard; clear stem minimum 200cm; 4 breaks	
7 No.		Liquidambar styraciflua	RB	STD	18-20cm	clear stem min. 200cm	
2 No.		Liriodendron tulipifera	RB	STD	16-18cm	clear stem min. 200cm	
4 No.		Magnolia 'Susan'	C35-45L	STD	200-250cm	branched; 7 breaks	
3 No.		Malus sylvestris	RB	STD	16-18cm	400-450cm height; clear stem min. 200cm	
2 No.		Malus trilobata	RB	STD	16-18cm	3x Extra Heavy Standard; clear stem minimum 200cm	
2 No.		Ostrya carpinifolia	C	STD	14-16cm	clear stem min. 200cm	
5 No.		Populus nigra subsp. betulifolia	RB	STD	14-16cm	clear stem minimum 200cm	
7 No.		Prunus avium	RB	STD	18-20cm	clear stem min. 200cm	
5 No.		Prunus sargentii	RB	STD	16-18cm	clear stem min. 200cm	
4 No.		Prunus cisteryana 'Chanticleer'	RB	STD	16-18cm	clear stem min. 200cm	
9 No.		Quercus robur	RB	STD	14-16cm	clear stem min. 200cm	
5 No.		Salix alba	B	STD	14-16cm	clear stem min. 200cm	
5 No.		Sorbus torminalis	RB	STD	16-18cm	clear stem min. 200cm	
9 No.		Tilia cordata 'Green Spire'	RB	STD	18-20cm	clear stem min. 200cm; Min. height 450cm	
9 No.		Ulmus 'New Horizon'	RB	STD	14-16cm	clear stem min. 200cm	

Hedge Mixes				
PERCENT	QTY	PLANTNAME	STOCK	SIZE
311m LOW WATER DEMAND NATIVE HEDGE MIX planted @5m in a double staggered row				
15%	233 No.	Corylus avellana	B Trans	100-120cm
15%	233 No.	Cornus sanguinea	B Trans	100-120cm
25%	389 No.	Carpinus betulus	B Trans	100-120cm
5%	78 No.	Ilex aquifolium	B Trans	100-120cm
25%	389 No.	Ligustrum vulgare	B Trans	100-120cm
15%	233 No.	Viburnum opulus	B Trans	100-120cm

To be planted in species groups of 5-7. Prune to 80cm after planting.

Shrubs						
QTY	UNIT	PLANTNAME	STOCK	SIZE	SPACING	SPECIFICATION
75 No.		Abelia x grandiflora 'Francis Mason'	C3L	30-40cm	4/m2	bushy; 3 breaks
153 No.		Choisya ternata 'Sundance'	C3L	30-40cm	4/m2	bushy; 4 breaks
143 No.		Ostus corbariensis	C5-7 5L	40-60cm	3/m2	bushy; 6 breaks
261 No.		Hedera 'Nicolas Bush'	C3L	30-40cm	4/m2	Bushy; 5 brks
153 No.		Hedera 'White Gem'	C3L	30-40cm	3/m2	Bushy; 5 brks
153 No.		Hedera pinguifolia 'Sutherlandii'	C3L	20-30cm	3/m2	Bushy; 7 brks
108 No.		Hedera helix	C1L		10/m2	
115 No.		Ilex aquifolium 'Golden vein Tol'	C5L	60-80cm	3/m2	Leader with laterals
221 No.		Lavandula angustifolia 'H'dcote'	C5L	20-30cm	4/m2	Bushy; 7 brks
150 No.		Lavandula angustifolia 'Nana Alba'	C5L	30-40cm	5/m2	Bushy; 7 brks
208 No.		Leucothoe Scarietta	C5L	30-40cm	5/m2	Bushy; 5 brks
94 No.		Lonicera nitida 'Maigrun'	C5L	30-40cm	4/m2	Bushy; 8 brks
282 No.		Lonicera pileata	C3L	30-40cm	3/m2	Bushy; 6 brks
65 No.		Pachysandra terminalis	C2L	15-20cm	4/m2	Several shoots; 7 brks
5 No.		Philadelphus 'Belle Etoile'	C5-7 5L	40-60cm	2/m2	Branched; 5 brks
102 No.		Pittosporum tenuifolium 'Bannow Bay'	C5L	20-30cm	5/m2	Bushy; 5 brks
198 No.		Pittosporum tenuifolium 'Gold Ball'	C5L	20-30cm	4/m2	Bushy; 5 brks
11 No.		Potentilla fruticosa 'Abbotswood'	C2L	15-20cm	3/m2	Bushy; 3 brks
50 No.		Rosmarinus officinalis	C3L	30-40cm	5/m2	Bushy; 4 breaks
22 No.		Rosmarinus officinalis 'Miss Jessop's Upright'	C5L	30-40cm	1/m2	Bushy; 5 breaks
133 No.		Rosmarinus officinalis 'Prostratus'	C3L	20-30cm	3/m2	Bushy; 4 brks
538 No.		Sarcococca confusa	C5L	30-40cm	5/m2	Bushy; 6 breaks
249 No.		Skimmia japonica 'Rubella'	C5L	30-40cm	5/m2	Bushy; 4 brks
238 No.		Skimmia x confusa 'Kew Green'	C5L	30-40cm	3/m2	Bushy; 4 brks
82 No.		Viburnum davidii	C3L	20-30cm	4/m2	Bushy; 3 brks
6 No.		Viburnum opulus 'Compactum'	C3L	30-40cm	3/m2	Bushy; 4 brks
75 No.		Viburnum tinus	C3L	30-40cm	2/m2	Bushy; 4 brks
92 No.		Vinca minor 'Gertrude Jekyll'	C2L	20-30cm	5/m2	Several shoots; 3 brks

Plant Mixes				
PERCENT	QTY	PLANTNAME	STOCK	SIZE
152m2 BLUE MIX SUN planted @20m2				
25%	760 No.	Ocous speciosus 'Conqueror'		5-6cm
25%	760 No.	Ocous chrysanthus 'Cream Beauty'		5-6cm
20%	608 No.	Ocous 'Vanguard'		5-6cm
15%	456 No.	Narcissus pseudonarcissus		10/12cm
15%	456 No.	Narcissus poeticus var. recurvus		10/12cm

Individual varieties to be planted in clusters of 10-15.

3600m2 NATIVE SCRUB EDGE MIX planted @1m centres				
10%	361 No.	Acer campestre	B Trans	100-125cm
15%	571 No.	Corylus avellana	B Trans	100-125cm
15%	571 No.	Cornus sanguinea	B Trans	100-125cm
15%	571 No.	Crataegus monogyna	B Trans	100-125cm
15%	571 No.	Eunymus europaeus	B Trans	100-125cm
2.50%	55 No.	Lonicera periclymenum	C3L	60-80cm
5%	190 No.	Prunus spinosa	B Trans	100-125cm
2.50%	55 No.	Quercus robur	B FTH	125-150cm
2.50%	55 No.	Rosa canina	B Trans	60-80cm
5%	190 No.	Sambucus nigra	B Trans	80-100cm
10%	361 No.	Sorbus aucuparia	B Trans	80-100cm
2.50%	0 No.	Oematis vitalba		

Individual varieties to be planted in groups of approximately 7-10. Quercus plants to be sited individually.

318m2 RAIN GARDEN MIX - LOW planted @5m2				
10%	156 No.	Ajuga reptans	C2L	20-30cm
10%	156 No.	Bergenia cordifolia	C2L	20-30cm
10%	156 No.	Deschampsia cespitosa	C2L	20-30cm
10%	156 No.	Iris sibirica	C2L	20-30cm
10%	156 No.	Iris unguicularis	C2L	20-30cm
10%	156 No.	Geranium macrorrhizum 'Spessart'	C2L	20-30cm
5%	80 No.	Hakonechloa macra	C2L	20-30cm
10%	156 No.	Luzula sylvatica	C2L	20-30cm
5%	80 No.	Persicaria amplexicaulis	C2L	20-30cm
10%	156 No.	Rudbeckia fulgida 'Goldsturm'	C2L	20-30cm
10%	156 No.	Vinca minor	C2L	20-30cm

Individual varieties to be planted in groups of 10 or more. Tall species such as Deschampsia and Bistorta to be planted further from the road.

Herbaceous plants						
QTY	UNIT	PLANTNAME	STOCK	SPACING	SPECIFICATION	
45 No.		Anemone hepheensis 'September Charm'	C2L	5/m2	Full pot	
88 No.		Bergenia 'Bressingham White'	C2L	5/m2	Full pot	
58 No.		Euphorbia amygdaloides robbiae	C5L	4/m2	Full pot	
337 No.		Geranium 'Rozanne'	C2L	7/m2	Full pot	
38 No.		Helleborus orientalis	C2L	5/m2	Full pot	
166 No.		Liriope muscari	C5L	6/m2	Full pot	
123 No.		Polystichum setiferum	C5L	4/m2	Full pot	
49 No.		Rudbeckia fulgida sullivanti 'Goldsturm'	C2L	4/m2	Full pot	
102 No.		Salvia nemorosa 'Ostrif Island'	C2L	6/m2	Full pot	
17 No.		Stachys byzantina 'Silver Carpet'	C2L	6/m2	Full pot	
52 No.		Tiarella cordifolia	C2L	5/m2	Full pot	

Aquatics/Marginals				
QTY	UNIT	PLANTNAME	STOCK	SPECIFICATION
20 No.		Ceratophyllum demersum	B	1/m2 Bunched and Weighted; 4-5 strands; British native-origin

HORTICULTURAL NOTES

- All work to be carried out to the satisfaction of the Landscape Architect. No planting position shall be altered without the approval of the Landscape Architect.
- Planting will commence during the first planting season (mid Nov-mid March) after substantial completion of the site. Should planting commence outside the dormant period (October to mid-March), allow for all bare root stock to be supplied container grown and an intensive watering regime.
- All topsoil and subsoil is to be analysed by a qualified soil scientist and the findings supplied in report form including recommendations to bringing soils up to specification. The soil survey shall include analysis of representative topsoil and subsoil samples (sample numbers to be determined by the soil scientist) in accordance with the testing schedule. Test results without soil scientist's analysis for compliance against the specification and recommendations will not be acceptable.
- The soil profile for landscape areas shall be as follows: Amenity grass areas - 100mm Topsoil over 350mm Subsoil; Shrub areas - 300mm over 300mm Subsoil; Tree pits - 300mm Topsoil over 600mm-800mm Subsoil (depending on size of rootball). Topsoil to BS 3882:2015, Subsoil to BS 8601:2013. All landscaped areas to be free draining.
- Contractors to ensure all planting beds and tree pits are free draining. Prior to topsoiling all compacted ground is to be fully de-compacted and deep ripped (400-600mm) to allow good drainage.
- All areas where soil is to be incorporated over formerly hard areas or compacted ground, these are to be excavated a further 300mm, or as required to remove all sub-base aggregate and backfilled to below topsoil level with free draining subsoil to match PH of topsoil used on site. Following settlement of subsoil, top up areas and cultivate to depth of topsoil.
- Contractor to only work with or over topsoil when dry to avoid compaction and the need for lengthy remedial operations to re-create a friable, free-draining soil.
- Trees to be selected and planted in accordance with BS 8545:2014. Tree pits in soft areas should be no deeper than the existing rootball or container depth and should have a diameter at least 75mm greater than the root system. The base of the tree pit, if sub-soil, should remain undisturbed, unless additional measures are specified, to avoid sinking of the rootball. Sides of the tree pit should be scarified to promote lateral root growth. The root-flare should be proud of the soil and easily visible after planting. Tree stock should be supplied with nursery line marked on tree if available from nursery and line planted flush with ground level. Existing soil horizons (where visible/ apparent) should be replicated as far as practicable.
- Unless specified otherwise, trees are to be secured by stakes: 14-16cm girth trees and below by single stake and 18-20cm girth trees and larger to be double staked. Multi-stem trees to be secured with single angled stake to main leader. Trees to be secured at low level (500-750mm) with biodegradable ties. Stakes to be placed outside of the rootball and extend at least 450mm into the ground. Once the tree has established stakes are to be removed (minimum 5 years).
- Each new tree in soft landscape shall be fitted with a tree watering bag to enable the slow releases of water, reducing the watering frequency. Bags may need to be replaced during the first two to three years, after which point trees should be established an irrigation no longer required. All trees planted in grass shall be fitted with mower/ trimmer guards and 50mm well composted bark mulch at a min 1m diameter circle away from the main stem/trunk to protect stem/ trunk from trimmer damage, with a 120mm collar left free of mulch to prevent rotting of the stem/trunk. Trees within hard landscape (where the surface is less permeable) shall incorporate a seep hose system to facilitate a hose being inserted to avoid unnecessary water loss.
- Where trees are to be planted in close proximity to public services such as foul, surface and mains water, an appropriate root barrier such as ReRoot600 to 2000 or equivalent is to be installed to a depth below invert levels of services. Root barrier to be located as far from the tree as possible to maximise root growth and stability of the tree.
- Meadow/ Wildflower areas to be installed on min 200mm graded, de-compacted and cultivated subsoil.
- Where manhole covers are located in shrub beds or hedge planting ensure that plants are spaced appropriately so they are not immediately adjacent to the cover.
- All preparations, both hard and soft under/ around trees to be retained must be carried out by hand to protect roots.
- Climbers to be planted min 250mm away from supporting structure, nursery canes removed and attached to climber support using appropriate ties.
- All plant material procedures are to conform to the relevant British Standards (3936/4428) codes of practice and the specification.
- All shrubs are to be furnished with at least 3 strong breaks and supplied container grown. Shrubs to be planted in holes big enough to accommodate the plant without damaging the roots. Plants to be firmed, watered in and dead/damaged branches removed after planting.
- Pesticides (herbicides, insecticides, fungicides and slug pellets etc) should not be used to prevent cumulative fatal effects to animals via the food chain, particularly invertebrates, birds and/or mammals. Weeds should be removed by hand or by alternative methods such as hot water or foam systems, details of which can be found at <https://www.pan-uk.org/>. Any pesticides use for invasive weeds should be non-residual.
- A slow-release biological based fertilizer shall be applied after planting in accordance with manufacturer's instructions.
- All plant beds where access to ground floor windows is required are to have 400mm gravel strip offset from building facades. Gravel to be pea shingle or similar approved.
- All planted areas to be mulched with a medium grade bark mulch such as Melcourt Amenity Bark Mulch, 3-35mm, or similar, to a minimum depth of 50mm after plants have been well watered. Where perennials are used a fine composted mulch such as Melcourt Composted Fine Bark or similar shall be applied to a depth of 50mm Care must be taken not to smother the plants.
- Where appropriate hedge species shall be pruned by up to one third to promote bushy growth.
- Bulbs shall be planted at a depth of three times their height into cultivated topsoil and plant hole to be backfilled with excavated material.
- Any tree, shrub or area of grass shall be replaced within a period of five years if they die within the next planting season after planting with another such plant of similar size and species.
- Should the site be at risk of rabbits, deer or badger appropriate measures should be agreed, prior to planting, to ensure successful plant establishment - spiral rabbit protection guards, staking turf, appropriate stock fencing etc. If such guards are used then they must be removed upon successful establishment or after 4 years of planting, whichever is sooner.

Aquatic/Marginal Mixes

PERCENT	QTY	PLANTNAME	STOCK
34m2 NATIVE MARGINAL MIX - DAMPEGE planted @7/m2			
10%	24 No.	Brixa media	C1L
10%	24 No.	Eupatorium cannabinum	C1L
15%	36 No.	Filipendula ulmaria	C1L
10%	24 No.	Geum rivale	C1L
15%	36 No.	Iris pseudacorus	C1L
10%	24 No.	Lychnis flos-cuculi	C1L
10%	24 No.	Lythrum salicaria	C1L
10%	24 No.	Primula vertis	C1L
10%	24 No.	Ranunculus flammula	C1L

Marginal species to be planted at 35cm centres in staggered rows just above water line.

48m2 NATIVE MARGINAL MIX - SHALLOW WATER planted @7/m2			
20%	67 No.	Ailisma plantago-aquatica	C1L
20%	67 No.	Butomus umbellatus	C1L
20%	67 No.	Calltha palustris	C1L
20%	67 No.	Menyanthes trifoliata	C1L
20%	67 No.	Sparganium erectum	C1L

Individual varieties to be planted in groups of approximately 5 along the water's edge below water level.

19m2 SMALL POND NATIVE MARGINAL MIX planted @12/m2			
10%	23 No.	Calltha palustris	Plug 125
2.50%	6 No.	Iris pseudacorus	Plug 125
10%	23 No.	Filipendula ulmaria	Plug 125
12.50%	29 No.	Glyceria fluitans	Plug 125
15%	34 No.	Juncus acutiflorus	Plug 125
12.50%	29 No.	Lythrum salicaria	Plug 125
15%	34 No.	Mentha aquatica	Plug 125
12.50%	29 No.	Myosotis scorpioides	Plug 125
10%	23 No.	Veronica beccabunga	Plug 125

To be planted in groups of approximately 5-7

Notes and Abbreviations

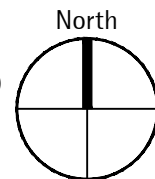
- B = Bare root (bagged).
- C = Container (or pot) grown, followed by size of the container (or pot).
- FORM = Shape of tree as supplied by the nursery.
- Fth = Feather.
- QTY = Quantity.
- RB = Rootballed (balled and wrapped).
- SIZE = Height or Spread of juvenile plant. (clear stem) Standard.
- STOCK = Root condition/protection method eg Bare root.
- Trans = Transplant (or undercut seedling).
- Refer to specification for further information.
- All plants to be completely hardened off.
- Substitutions to be agreed with Landscape Architect.

APAL FILE REFERENCE
3360-APA-ZZ-XX-PP-L-2000.dwg

Notes

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Do not scale from this drawing.

Based on drawing by Stuart Michael Associates
Drawing number 7276-SMA-XX-XX-DR-C-0500



LEGEND

- Application boundary
- Existing Vegetation to be retained, refer to arboricultural drawings for RPA's and tree protection

PROPOSED ELEMENTS

PLANTING

- Tree, refer to plant schedule
- Native Scrub Mix, refer to plant schedule
- Ornamental Shrubs, refer to plant schedule.
Hedge, refer to plant schedule
- Bulb planting
- General purpose amenity turf
- General purpose meadow mix; EM2 Emorsgate or equivalent
- Mown amenity grass, hard wearing seed mix
- Wetland meadow mix; EM8 by Emorsgate or equivalent
- Marginal and aquatic planting
- Wildflower meadow mix for pond edges; EP1 Pond Edge Mixture by Emorsgate or equivalent
- Flowering lawn mix; EL1 by Emorsgate or equivalent
- Specimen Shrub or climber, refer to plant schedule

ECOLOGY ENHANCEMENT FEATURES

- Log piles - Logs cut from felled site trees, min 100mm dia, verticals pathway buried in ground to stabilise pile, horizontal stacked within. Cover top with grass sod/soil to prevent drying out. Max 600mm high.

- Bird box - mounted on existing tree at approx. 3m height above ground. Ref: BB 1: Schwegler 1B or equivalent
BB 2: Schwegler 1N or equivalent
BB 3: Schwegler 2M or equivalent
- Bat box to existing trees. Ref: Ba 1: Vincent Pro or equivalent
Ba 2: Schwegler 1FF or equivalent

TRIM TRAIL PLAY EQUIPMENT

All play items to be supplied by Miracle Design and Play

- Balance Walk, MAEBW and Stepping Posts, MAESL20
- Wobble bridge, MAEWBR and Walk and Stretch Posts, MAELWSP
- Three Bar Balance, MAETBB

MISCELLANEOUS

- Indicative proposed contours and levels for pond creation.
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