Prepared by Mark Cooper 14th July 2022 Rev A: 22nd July 2022 Rev B: 4th January 2024 Rev C: 19th January 2024 Rev D: 24th January 2024



Landscape and Ecology Management Plan

Kidbrooke Park Road North Phase 1 KPR-MCA-SW-SW-RP-L-0001 Rev D

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Revisions	Sit	e Lano
Revision B: 04/01/24 General Arrangement Plan updated	1	Introd
Revision C: 19/01/24 Planting plan added		Introd
Revision D: 24/01/24 Planting plan updated.	2	Basel

- 3 Biodiversity Enhancements
- 4 Section Not Used
- 5 Maintenance of Grass Areas
- 6 Maintenance of Planted Areas
- 7 Maintenance of New Trees
- 8 Maintenance of Hedges
- 9 Maintenance of Climbing Plants and Wall Shrubs
- 10 Watering of Planted Areas
- 11 General Maintenance
- Landscape Maintenance Schedules



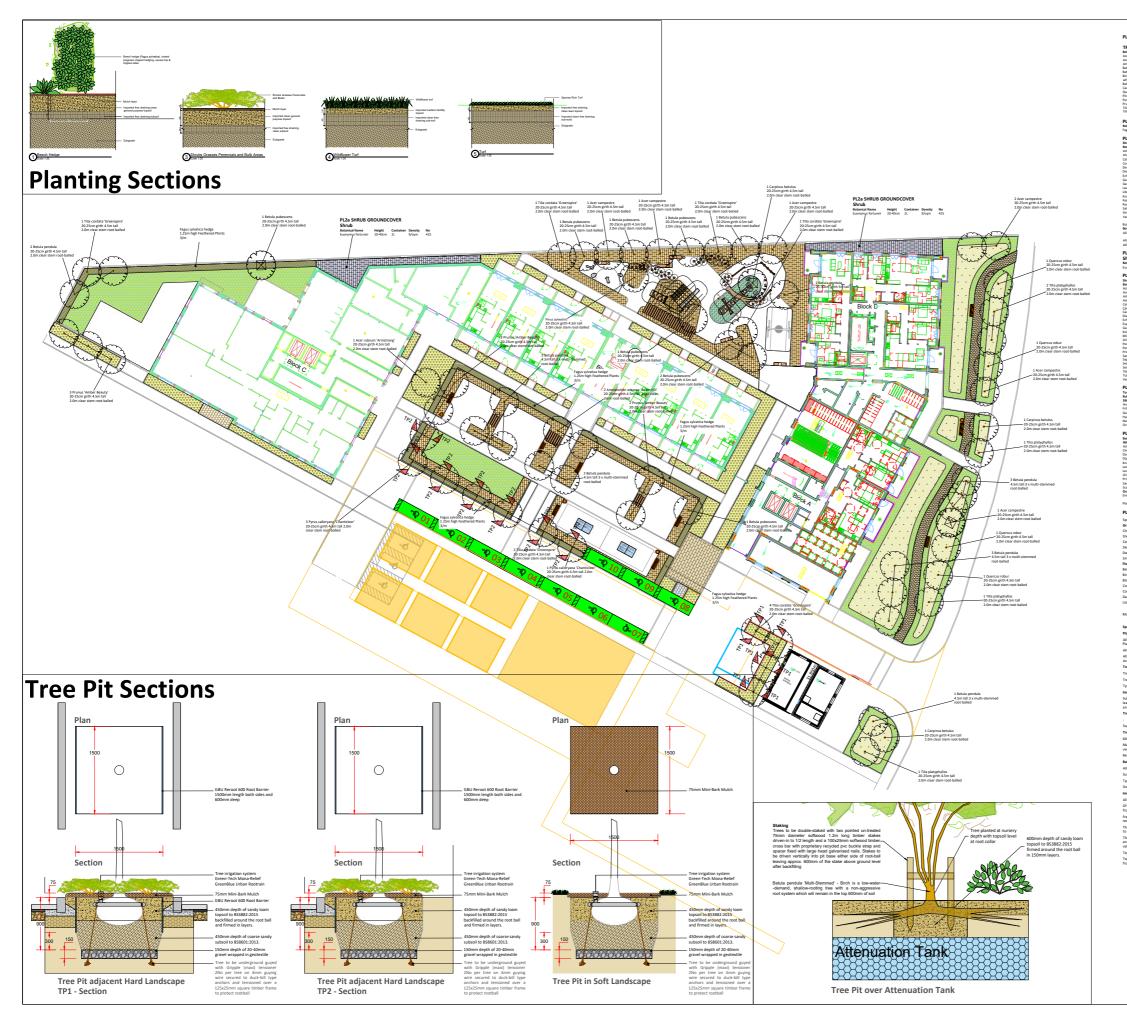
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- ndscape Plan
- oduction
- eline Ecological Information



LANTING SCHEDULES							LANDS
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irch is a low-water -demand, shi hich will remain in the top 600r atula pubescens arpinus betulus uercus robur	allow-rooting tree w nm of soil Standard 20-25c Standard 20-25c Standard 20-25c	ith a non-ag m 4.5m m 4.5m m 4.5m	2m 2m 2m 2m	ot system RB RB RB			Species Rici & 20% Nat minimum n
nus sylvestris yrus calleryana 'Chanticleer' runus 'Amber Beauty'	Standard 20-25c Standard 20-25c Standard 20-25c	m 4.5m m 4.5m m 4.5m	2m 2m 2m 2m 2m	RB RB RB RB RB RB		L 4 B	PL4 Native
lia cordata 'Greenspire' lia platyphyllos	Standard 20-25c Standard 20-25c	m 4.5m m 4.5m	2m 2m	RB RB		5	Tiller's Turf with Bulbs,
L1 HEDGES otanical Name Height agus sylvatica 1.25m high	Habit Feathered	Hedge Plant	Root Ty Root Ba	pe lied	No 480		PL3 Shrubs,
L2 ORNAMENTAL PLA hrub and Herbaceous Mix 475m otanical Name	ANTING FOR F n2 Container		Centers	Group	×	No	PL2 Ornami
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aura lindheimeri eranium 'Rozanne' wandula angustifolia 'Hidcote'	31 21 51	7/sqm 9/sqm 7/sqm	40cm 35cm 40cm	3no 3no 1no	7% 4% 5%	252 170 165	PL5 Swale P
bertia grandiflora sautia macedonica stentilla fruticosa "Limelight"	31. 31. 151.	7/sqm 9/sqm 4/sqm	40cm 35cm 50cm 40cm	3no 3no	6%	200 256 76	(C) June 1
osmarinus officinalis alix rubra 'Nana' asleria autumnalis	51. 151. 51.	7/sqm 9/sqm 4/sqm 7/sqm 4/sqm 5/sqm 9/sqm	40cm 50cm 45cm 35cm	3no 3no 3no 3no	4% 5% 5% 7% 5%	166 95 166	Swale Grav
erbena bonariensis 'Lollipop' ulbs/Croms/Tubers otanical Name Ilium christophii	2L Grade	9/sqm				215 No	
llium christophii llium nigrum llium sphaerocephalon	Grade Top Size Top Size Top Size	30/sqm 30/sqm	20cm	5-20	30%	4275 5700 4275	
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hrub otanical Name Height sonymus fortuneii	Container Dens 20-40cm	ity No 2L	9/sqm	850			
B) PERPINIASS & GR what Winkseems Mits Mode statistical Name Mark Statistical Name Mark Namek Mark Name Mark Namek Mark N	ASSES n2 Container	Density	Group	No			
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alamagrostis 'Karl Foerster' alamintha 'Blue Cloud' arex secta	21 21 21 21	0.2 0.5 0.1	5-11 5-11 5-11	80 200			
ianthus carthusianorum chinops 'Veitch's Blue' upatorium cannabinum plenum	21 21 21	0.75 0.25 0.1	5-11 5-11 5-11	40 300 100 40 200			
aura Indheimeri hiphofia 'Green Jade' liscanthus 'Flamingo'	2L 2L 2L	0.2	5-11 5-11 5-11	200 80 20 200			
erovskia 'Blue Spire' ersicaria amplex 'Orange Fields' rimula veris	2L 2L 2L	0.5 0.2 1	5-11 5-11 5-11	200			
anguisorba 'Blackthorn' aponaria 'Max Frei' esleria autumnalis	21 21 21	0.5 0.25 0.75	5-11 5-11 5-11	200 100 300			
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rnhithogalum pyrenaicum Top	Size 30/sqm MIX 28m2	20cm 10	0-500 10	% 1080			
otanical Name Aldflower Seeds chillea millefolium	% g/sq 1% 1g/s	m qm					
inopodium vulgare aucus carota ipsacus fullonum	5% 1g/s 20% 1g/s 10% 1g/s	qm qm					
LS PLAY SWALE SEED otanical Name Vielflower Seeds Aubita mitlefolium inspodium vulgare auxus carota ippacus fullomum auxus arvensis rontodon hispidus rontodon hispidus rontada writs runda writs abitisar acumbaria	10% 1.8% 20% 1.8% 5% 1.8% 10% 1.8% 5% 1.8% 4% 1.8% 10% 1.8% 10% 1.8% 10% 1.8%	qm qm qm					
rimula veris anguisorba minor cabiosa columbaria	4% 1g/s 10% 1g/s 10% 1g/s	qm qm qm					
rimula veris anguisorba minor zabiosa columbaria rass Seeds morsgate: EG6 – Meadow grass ayground to be seeded minimu	mixture for chalk &	limestone so	oils 3g/m2	and during	ernuine	season	
L6 LAWN							
pecies Rich Turf - Wildflower rasses hewing's Fescue	Festuca rubra sub						
heep's Fescue ommon Meadow grass	Festuca ovina Poa pratensis Festuca rubra tric						
warf cultivar maller Cat's Tail	Festuca rubra tric Lolium perenne Phleum bertoloni						
lora (Top 10) etony	Stachys officinalit Lotus corniculatu						
ack modick	Lotus comiculatu Medicago lupulin Centaurea nigra Rumex acetosa						
aisy	Bellis perennis						
ady's Bedstraw Iaintained to a minimum mo	Galium verum	n					
pecifications/Notes:							
lant Supply II plants to be supplied in acc lant Specification.	cordance with The	Horticultur	al Trade A	issociatio	h and the	National	
Il trees to be selected and ta Il shrubs and herbaceous ;	gged in nursery by	Landscape	Architect				
rchitect prior to delivery to s ree guying	ite.				,		
rees to be underground guye ree underground guying sysb ype: ArborGuy Deadman Anc	em supplier: Greer	n Blue Urba	n				
nported Subsoil		13 to ensur	e it has it	has a hig	n sand co	intent (at	
ubsoil to be tested in accord (ast 65%) with at least 50% (nd have little to no organic m ree root barrier	of the particles fal latter present.	ling into th	e 'mediur	n' (0.25 -	0.5mm) s	ize range	Revisions
Install root barrier for tr upplier: Green Blue Urban Ty						red	Rev P01: 05/10/ Rev P02: 19/04/
ree Pits 00-200mm free draining grav	vel layer to all tree	pits.					Rev P03: 27/04/ and M&E service Rev P04: 05/06/
take provision for positive ertical monitoring pipes and efer to tree planting details a	drainage to tree caps).	pits where	required	(perfora	ed drain	pipe or	Rev P05: 07/06/ Rev T01: 12/06/ Rev T02: 14/06/
ark Mulch llow for 50mm bark mulch la							Rev T02: 14/06/ Rev T03: 19/06/ Rev T04: 28/06/ Rev T05: 13/07/
upplier: Melcourt Industries I ype: Melcourt pine mini mult	Ltd		5 5				Rev T05: 13/07/ horticultural pro Rev T06: 27/07/
ize: Nominal Particle Size Rar nported topsoil							Rev C01: 10/01/ Rev C02: 23/01/ Planting schedu
Il topsoil to be as per the BS f medium texture, reasonab	ly free of stones (r	naximum si	ize in any	dimensio	n 50mm)	and free	Site layout coor Tree pit design a
om contamination, subsoil, v ree from contamination. ! commendations to be provi						port and	
he Contractor shall ensure th o undertaking the sampling	hat 48 hours' notic	e is provide	d to the 0	lient's Re	presenta	tive prior	
he samples shall be truly n nalysis including: Maximum alue, particle size analysis an	presentative of t stone content, sto d textural classifica	he soil bei ine size, pH ation	ng consid I value, sa	ered with alinity, nu	a decla trient co	ration of ntent, pH	
opsoil for Wildflower turf is t opsoil for Rain gardens to b om Bourne Amenity	o be of medium fe	rtily and fre	e of pere	nnial wee	ds.		
							DI
							Kidbı
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							Planti
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							KDD
							KPR-M

Proposed Tree Position	[•]
Formal Hedge Planting	
Species Rich Turf - 80% Slow Growing Grasses & 20% Native Wildflowers - Maintained to a minimum mown height of S0mm	9 7 7 7 7 9 7 7 7 7 9 7 7 7 7 9 7 7 7 7 9 7 7 7 7
PL4 Native Wildflower Meadow Turf Tiller's Turf Flora Meadow Wildflower Turf	• •
with Bulbs, Corms and Tubers as schedule PL3 Shrubs, grasses, perennials and bulbs	
PL2 Ornamental Planting for Play Areas	
PL2a Shrub Groundcover	
PL5 Swale Planting Mix	
Swale Gravel Filter Bed	

/ISIONS P01: 05/10/22 Tender inform P02: 19/04/23 Lavout coordir

d M&E services. v P04: 05/06/23 Shyreen Adams' comment

vr 1955: 07/06/23 Coordination changes. vr 011: 21/06/23 EMDER 15:020 vr 102: 04/06/23 Nursery garden coordinated with hard It vr 103: 19/06/23 Jush Station and Generator updated. vr 105: 13/07/23 Rain-Garden build up detail attered to st vr 105: 13/07/23 Rain-Garden build up detail attered to st vr 105: 12/07/23 Tere pit detail adjacent hard surfaces alw vr 015: 12/07/23 Tere pit detail adjacent hard surfaces alw vr 015: 10/07/23 Rain Garden SUSIE

lanting schedules amended. Ite layout coordinated with current site plan. ree pit design and location clarified.



00/A0 20/04/22 MC R-MCA-SW-DR-L-0002 C02

1.0 Introduction

- 1.1 This report is compiled and written by Mark Cooper BA(Hons) DipLA CMLI; a Chartered Landscape Architect and Principle of MCA Landscape Architects, a practice registered with the Landscape Institute.
- 1.2 This Landscape and Ecological Management Plan (LEMP) will be in effect for the duration of the site's proposed use and is designed to detail how the public realm landscape areas on the site will be managed including existing trees and hedgerows and the ecology therein.
- 1.3 This LEMP presents a scheme for enhancing the biodiversity and overall ecology of the site in conjunction with creating and attractive and sustainable residential environment. The report sets out important information regarding the landscaping, habitats and ecological features and the management required to optimise their functionality within the ecosytems present on site.
- 1.4 The document has been compiled to address condition 13 of the planning permission as follows:

Condition 13 Landscape and Ecological Management Plan

a) Prior to occupation of the residential units, the approved scheme shall incorporate and maintain the avoidance, mitigation and compensation ecological and biodiversity measures, soft and hard landscaping features and achieve the Urban Greening Factor in line with the approved Preliminary Ecological Appraisal Rev 1 prepared by WSP (28 July 2020), Reptile Survey Report prepared by WSP (29 June 2020), Planting Strategy Rev A (RBG-TTG HTA-L DR 0904 A) prepared by HTA Design LLP (31 July 2020) and Design and Access Statement prepared by HTA Design LLP (July 2020):

b) Prior to commencement of superstructure works, a Landscape and Ecological Management plan shall be submitted to and approved in writing by the Local Planning Authority. Development proposals must ensure no net loss of biodiversity and wherever possible, make a positive contribution to the protection, enhancement, creation and management of biodiversity for the approved site. The Landscape and Ecological Management Plan shall include: mitigation measures during demolition and construction (if additional measures identified than those approved under Part A);

- *i. long-term design objectives;*
- ii. management responsibilities;
- iii. maintenance schedules for all landscaped areas;

iv. A scheme of soft landscaping (including details of any trees or hedges to be retained and proposed plant numbers, species, location and size of trees and tree pits) and details of the management and maintenance of the landscaping for a period of five years shall be submitted to and approved in writing by the local planning authority prior to construction of the above ground works.

v. All planting, seeding or turfing shall be carried out in the first planting and seeding seasons following the completion of the development, in accordance with the approved scheme under part (a). Any trees or plants which within a period of five years from the completion of the development die, are removed or become seriously damaged or diseased, shall be replaced in the next planting season with others of similar size and species.

c) (if required) Where habitats are created as mitigation for development, management plans for the habitat shall also be provided detailing how the areas are to be managed in the longer term. Once approved the mitigation and management plans shall be undertaken in accordance with the approved details.

d) Evidence that the ecological measures approved under parts (A) to (C) have been installed in accordance with the details above and confirmation of installation by the suppliers should be submitted to and approved by the local planning authority prior to occupation of the residential units.

Reason: To ensure the protection of wildlife and supporting habitat and enhance the nature conservation value of the site and character of the area, to prevent the spread of invasive plants and to secure opportunities for the enhancement of the ecological value of the site in line with London Plan (2021) policies G1, G5 and G6 and Core Strategy policy OS4 (Biodiversity), the Mayor's Sustainable Design and Construction SPG (2014) and Greener Greenwich SPD (2014).

Landscape and Ecology Management Plan Kidbrooke Park Road - Phase 1

1.0 Introduction (continued)

Contractor's Programme and Personnel

- 1.5 The duration of each site visit will vary in length due to the seasonal nature of the works, and shall be such as to ensure that all works defined in the specification are completed.
- 1.6 All works to be carried out Monday to Friday within the hours of 08:00 18:00.
- 1.7 Only suitably qualified personnel will undertake the horticultural/arboricultural works scheduled which should be completed in line with best latest relative practices. A suitably qualified person will have professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature. Unqualified personnel will be appropriately supervised by the suitably qualified individual as above.
- 1.8 Contractor's Programme Prior to the commencement of the contract, the contractor shall provide a programme of his planned activities. In addition, the contractor shall provide a schedule of his proposed service visit dates for the year.

Wildlife & Countryside Act 1981

- 1.9 In compliance with the 1981 "Wildlife and Countryside Act", no works to wild or native hedges will take place in the period 1st March to 31st August inclusive during each year.
- 1.10 In the event that work is required to be undertaken on established trees, shrubs and hedges during the period 1st March to 31st August, a due diligence check for nesting birds will be undertaken by a suitably qualified ecologist. If active nests are found, work will not take place until the young have fledged following further confirmation by a suitably qualified ecologist.
- 1.11 Similarly, in the event that work is required to be undertaken on established trees, shrubs and hedges during the period 1st March to 31st August, a due diligence check for bats and potential roosting features will be undertaken by a suitably qualified arborist, ecologist or licensed bat handler. In the event that bats or bat habitat is found work will not commence until a licensed bat handler has been engaged to advise and supervise.

Management Company

1.12 The management of the landscape and ecology on site will be undertaken by a Management Company employed by the residents and responsible to them.

2.0 Baseline Ecological Information

- 2.1 Blakeney Leigh Limited commissioned WSP to undertake a Preliminary Ecological Appraisal of the site on Kidbrooke Park Road, Kidbrooke which was published in July 2020.
- 2.2 The survey stated that; 'The Site currently comprises areas of tarmac, fragments of woodland, ornamental scrubs, areas of grass, herbs and perennial plants. There is a building on Site currently and a small seasonal pond filled with rubbish'.
- 2.4 The survey further stated that; '*Eight Phase 1 habitat types were identified within the Site:*

Scrub, dense-continuous (A2.1)	0.14ha 15.06% of site area
• Parkland, scattered trees, broadleaved (A3.1)	0.20ha 21.27% of site area
• Improved Grassland (B4)	0.11ha 11.99% of site area
• Ephemeral/short-perennial (J1.3)	0.01ha 1.12% of site area
Introduced shrub (J1.4)	0.34ha 36.69% of site area
• Building (J3.6)	0.005ha 1.12% of site area
Hardstanding	0.12ha 13.31% of site area
 Intact species poor hedgerow (J2.1) 	40.71m length

Apha numeric codes refer to JNCC Phase 1 habitat survey classification (JNCC, 2010).

Survey Results

2.5 The survey concluded that;

5.1.1. The Site is dominated by non-native shrub species and scattered trees on improved grassland. Woodland in the east of the Site is regarded as being of local nature conservation importance given that it provides habitat in a densely urban part of London and is buffering vegetation between the Site and the adjacent road and offers some connection with the close HPI deciduous woodland. No protected species were observed on Site, but further surveys are needed to determine the presence/absence of reptiles. Common toad, listed as priority species, was observed and it is suspected to be breeding on Site.

4.5 PROTECTED AND NOTABLE SPECIES

4.5.1. The results of the desk study, Phase 1 Habitat Survey and protected species assessment highlighted the potential presence of several protected species or species of conservation concern within the Site, or within the immediate surroundings including the Survey Area. These include:

•Bats •Nesting birds •Reptiles •Amphibians

BATS

4.5.5. The preliminary roost assessment and endoscope survey carried out on in May 2020 did not find any evidence of roosting bats and thus impacts on roosting bats in trees may be discounted.

4.5.6. Once a tree removal or management plan is agreed, the ash (T1) with low potential should be removed by soft fell, supervised by a suitable ecologist, if it cannot be retained as part of the Proposed Development.

4.5.7. Although the woodland on the Site provides foraging opportunities for bats, most of the Site comprises vegetation which is of negligible importance for bat foraging. In addition, the relatively small size of the Site – in comparison to large expanses of bat foraging habitat available in nearby parks, lakes and open space - mean that they are unlikely to provide important resources for foraging and commuting bats.

BADGER

4.5.9. The Site was not considered of importance for badger owing to its small size and the fact it is fragmented from open countryside by busy roads and areas of dense urban development.

BIRDS

4.5.12. In general, the Site and the surrounding area were considered to have low potential to support notable bird species. It is considered unlikely that black redstart is present given its general rarity in London and the availability of alternative habitats in the near vicinity of the Site.

REPTILES

4.5.16. The Site comprises several but small areas of grassland that are habitat suitable to support small numbers of reptiles. However, based on its small size and the availability of alternative reptile habitat in the surrounds, the removal of vegetation on the Site is unlikely to affect reptile conservation status locally. Further surveys are recommended to assess if reptiles are present on Site.

AMPHIBIANS

4.5.20. The excavation on Site is suspected to be polluted and did not support aquatic or marginal vegetation. It was discounted as a GCN breeding site, but common toad was found on Site, so it likely to be common toad breeding site. Woodland in the northeast of the Site may be used by GCN and common toad for sheltering and foraging.

INVERTEBRATES 4.5.24. The Site is dominated by improved grassland and small areas of secondary woodland which are of negligible importance to terrestrial invertebrates. No impacts are anticipated on protected or notable invertebrate species.

3.0 **Biodiversity Enhancements**

The Landscape Pro	posals for the site reflect	t the following Biodiversit	y Enhancements

Landscape Proposals

- 3.1 In respect of habitats, the proposed redevelopment will provide the following:
 - · Creation of new areas of species-rich turf lawns.

· Creation of new areas of species-rich native wildflower meadow grassland with native bulbs.

· Creation of new areas of ornamental herbaceous perennial planting with ferns, grasses and flowering plants providing seeds, pollen, flowers and shelter.

· Planting of new native hedges as mature plants.

· Provision of new tree and shrub planting including native species and wildlife friendly exotic species.

· Creation of new Sustainable Drainage Systems (SuDS) including extensive rain-gardens planted with biodiverse shrubs and perennials.

· Implementation of sensitive and beneficial landscape management within areas assigned for biodiversity.

· Biodiverse Green ('Brown') Roof with undulating aggregate substrate, drifts of sand, boulders, shingle beds, log-piles, tree trunks, bricks, wildflowers and Sedum planting.

Bats

3.2

- In respect of bats the proposed development will provide the following elements to ensure gains are secured for this group:
 - · Sensitive lighting scheme protecting potential dispersal and foraging corridors along the existing boundaries of the site and retaining dark corridors within areas of open green space;
 - · Provision of bat boxes on new buildings, such as Schwegler 1FF, to offer net gains in roosting opportunities within the site;
 - · Retention of areas of open green space, creation of new linear features and enhancement of the existing grassland to promote foraging and dispersal opportunities; and
 - · New native planting, including the provision of wildflower grassland and native tree and hedgerow planting, to offer potential new foraging and commuting opportunities.

3.0 Biodiversity Enhancements (continued)

3.3

3.4

Hedge-Hogs			Reptiles
The proposals will ensure that opportunitie small mammals are retained. These will inc	s for Hedgehog (Erinaceus europaeus) and other clude:	3.5	The site shall be subject to several meas
			· Establishment of areas of wildflower
-	area of grassland will ensure that foraging and		suitable conditions for reptiles; and
dispersal opportunities are present post-de	evelopment;		Description of low siles located in discus
Provision of log pilos in groop along the bar	undary of the site will allow for refugia opportunities		 Provision of log piles located in discret refuge and hibernation opportunities for
for small mammals; and	andary of the site will allow for relidgia opportunities		refuge and mbernation opportunities for
			Invertebrates
Provision of 'Hedgehog Gateways' along I	boundary fencing. These comprise small 13cm by		
-	allow for the movement of Hedgehogs and small	3.6	The site shall be subject to several meas
mammals across the development.			achieved;
Birds			• Log piles are to be provided where pub
			invertebrates;
	ent shall provide the following elements to ensure		• Now notive planting to offer potential p
gains are secured for this group:			 New native planting to offer potential n creation of new wildflower meadow and
New native planting including the provisio	n of areas of wildflower grassland to offer potential		
new foraging opportunities through an incre			Ornamental planting throughout the b
5 5 11 5	,		species that can provide new nectar reso
An increase in tree and hedgerow planting	g will offer new nesting opportunities for birds; and		
. Det and Dird Davies on New Duildings	Schwarler Winter and Summer Beast 114/0		Implementation of sensitive and benef
 Bat and Bird Boxes on New Buildings 	Schwegler Winter and Summer Roost 1WQ		mosaic of value to a wider invertebrate a

Schwegler Swift Nest Box No 17

Schwegler Sparrow Terrace 1SP

Schwegler 2GR Bird Nest Box

sures that will provide enhancements for reptiles.

grassland to be sensitively managed to promote

eet areas along the boundary of the site to promote this group.

sures that will allow for net entomological gains to be

lic access is restricted, to offer new opportunities for

new nectar resources for invertebrates including the planted SuDS rain-gardens;

built form of the development will include flowering sources for pollinators; and

ficial management to offer a floristically rich habitat assemblage.

4.0 Section not used

Landscape and Ecology Management Plan Kidbrooke Park Road - Phase 1

5.0 Maintenance of Grass Areas

Grass Lawns

- 5.1 Litter picking shall be carried out prior to grass cutting.
- 5.2 All grass areas shall be cut during each service visit during the growing season using the appropriate machinery to ensure that the grassed areas are maintained in a tidy condition. Cut established grass to leave 25mm of growth and remove all arisings from . Grass should not exceed 50mm height before it is cut.
- Grass cutting shall also be carried out during other times of the year, subject to weather and 5.3 ground conditions, to ensure that grassed areas are maintained in a tidy condition.
- 5.4 The Contractor shall collect and remove from site any arisings from grassed areas, planting beds and hard-surfaces. Any such arisings shall be removed and deposited off-site.
- 5.5 Grass growing along edges, and around the bases of trees, along fences or adjacent to shrub beds and other obstacles, shall be kept tidy by strimming (ensuring that trees are not damaged) and hand trimming during each service visit, or by careful use of a suitable non-selective herbicide. The use of any approved herbicides must comply with COSHH legislation.
- 5.6 Edges to paved areas, hard surfaces and shrub beds shall be cut back using an edging tool (half moon) once during each winter period.
- 5.7 Areas of naturalised bulbs should be left for a period of 6 weeks after flowering has finished before cutting back to normal height.

Correction of Hollows

5.8 Major hollows or ridges shall be corrected by cutting out a section of turf, removing or adding topsoil and replacing the turf evenly at the correct level. Mowing shall continue without interruption. Areas so treated shall be kept moist until rectified.

Fertilising

5.9 A dressing of lawn fertiliser shall be applied annually at the rate of 60gm/m2 in spring.

Weed Control

5.10 The grass shall be treated where necessary with selective weed killer once established to maintain a weed-free sward.

Grass Watering

5.11 Established grass areas at ground level must rely on natural soil moisture and will usually recover quickly after periods of drought. New turf or repairs must be watered and kept moist until established.

Management of Meadows

- 5.12 Management by mowing or grazing is essential to the maintenance of structure, balance and diversity in meadow grassland. Without management grassland becomes coarse and rank, loses both diversity and interest, and will eventually turn into scrub or woodland.
- 5.13 Areas of meadow grass, where shown on the landscape plans, will be created by seeding with native seed as specified to the supplier's recommended density. Once established, these areas will be mown in late summer on a rotational basis so that no more than half the area is cut in any one year leaving part as an undisturbed refuge.

6.0 Maintenance of Planted Areas

Weeding

6.1 Weed growth in all beds shall be controlled at all times. Manual removal of visible weeds shall be undertaken during each service visit. The use of any approved herbicides must comply with COSHH legislation. Shrub beds shall not be strimmed

Watering of plants after the first year

6.2 Plants showing evidence of drought stress shall be individually watered as described later and in the event of prolonged dry weather the planting beds shall be watered at a rate of 24L/ m2 every two weeks.

Plant Replacements

6.3 Failed, trampled or damaged plants will be replanted as the original scheme ensuring that further damage is prevented where possible.

Herbaceous Perennials and Grasses

- 6.4 A herbaceous perennial is a hardy plant that dies down to its roots in the autumn. The roots stay alive through winter, and in spring the plant comes to life again putting on profuse growth in a season.
- 6.5 Herbaceous perennials may be in situ for years and perennial weeds must be cleared from the soil bed prior to planting, taking care to remove all traces of roots.
- 6.6 Each Autumn the foliage will die down, leaving dead stems behind which will be retained for their picturesque character and for their contribution to biodiversity in providing winter shelter for insects and the seedheads will provide forage for birds i.e. Veronicastrum, Eupatorium, Phlomis and Ornamental Grasses.
- 6.7 Perennials with soft stems that will rot and also plants that are prone to diseases like powdery mildew should be pruned back in Autumn i.e. Phlox and Monarda.
- 6.9 Deadhead plants in late summer and into Autumn to encourage further flowering i.e. Salvia nemorosa, Veronica spicata, Helenium, Penstemon, Delphinium and Achillea.
- In spring the dead foliage should be removed by hand in time for the flush of new growth from 6.10 the base of the plants.
- 6.11 As the basal crowns of the plants grow outwards flowering can decrease. Plants may be juvenated by lifting, splitting and replanting either in November March/April unless heavy frost dictates a delay until Spring.

Shrubs

Annual Maintenance

6.12	Shrub beds and planted areas are to be maintain overgrown.			
6.13	Plants are to be thinned and removed annually bet to maintain an appropriate level of growth.			
6.15	Shrub beds shall be pruned annually between Chris unhealthy growth and to stimulate future growth. It trimmed to ensure that they do not overgrow footpa or shaped to ensure functionality, healthy growth an			
6.16	Mulch shall be applied to all shrub beds between prevent weed growth during the following year.			
Routine Maintenance				
6.17	Weed growth in all beds shall be controlled at all shall be undertaken during each service visit. Shrul any approved herbicides must comply with COSHH			
6.18	Shrub beds shall be maintained during each service weeds, and that shrubs and plants do not overflow			
Vision Spla	ays			
6.19	Planting within the vision splays at road junctions maintained at a maximum of 600mm height by regu			
Preparation for replacement planting				
6.20	All weeds on areas to be planted must be clear			

All weeds on areas to be planted must be cleared prior to being cultivated. All stones, 6.20 builder's rubbish, weeds, roots > 50mm to be removed and disposed of off-site. Topsoil to be cultivated top a depth of 75mm (500mm for new schemes) using cultivators, rotavators or similar approved equipment taking care not to bring up the subsoil to provide a medium fine tilth. Cultivation by hand to the same standard to be carried out where machinery cannot be used.

ined to ensure that they do not become

etween Christmas and the end of February

istmas and the end of February to remove In addition all shrubs and plants shall be paths, roads or parking areas, and pruned and a tidy appearance.

en Christmas and the end of February to

times. Manual removal of visible weeds ub beds shall not be strimmed. The use of IH legislation.

rvice visit to ensure that they are free of the boundaries of the bed.

s or at the entrances to car-parks will be gular clipping as required.

6.0 Maintenance of Planted Areas

Watering of plants after the first year.

6.21 Plants showing evidence of drought stress shall be individually watered as described above and in the event of prolonged dry weather the planting beds shall be watered at a rate of 24L/ m2 every two weeks.

Weeding and Mulching

6.22 Shrub beds should be hand weeded until established and mulch should be maintained at a minimum depth of 75mm.

Plant Thinning

6.23 In established beds it may be necessary thin out shrubs if one species is threatening to dominate the bed at the expense of the visual appearance of the planting composition. Such thinning should be done in dry weather between late November and early March. Some plants lifted in this operation may be relocated to other areas if space allows. They should be re-planted in large pits backfilled with top soil and well watered until re-established. Plants around the gaps in the original bed should be trimmed to remove dead wood and encourage growth.

Plant Replacements

6.24 It should not be necessary to replace shrubs unless permanent damage occurrs to planting as a result of vandalism or pedestrian damage. In this case gaps should be culitivated and replanted as the original scheme ensuring that further damage is prevented where possible.

Pruning

6.25 The selection and arrangement of plants in shrub beds will usually be intended to create a gradation of plant heights from low-growing at the front or edges of the bed to tallergrowing plants at the rear or centre. This presents the best view of the relationships of the plants in terms of texture and colour and ensures that individual plants are not deprived of light or swamped by competition. The aim of shrub bed management is to encourage the development of a diverse and attractive foliage cover which will suppress weeds taking care to avoid the excessive dominance of the most vigorous plants at the expense of variety and ensuring that plants do not become a nuisance or present a hazard. The result should be complete coverage of the ground under a canopy of lower growing plants with a central feature or features of tall shrubs in an attractive balanced composition of scale, form, texture and colour.

6.26	The object of pruning shrubs is to keep the plant he
	shape and balance and produce the best decora
	individual species within a planting composition with
	tends to promote a growth reaction in a plant prop
	on a healthy stem the fewer the number of rema
	individual bud's share of nutrients and the more it w

- 6.27 Prune shrubs to encourage root development and to form a strong and balanced branch structure permitting the entry of light and air to the centre of the plant to encourage young vigorous growth from the base. Unbalanced shrubs should be pruned on the weak side to encourage eventual balance; cutting back the vigorous side to match the weak side will have the oppo effect as the vigorous side will grow even more after pruning.
- 6.28 Remove dead, damaged or diseased wood and crossing or weak branches by cutting back to healthy tissue and remove trimmings.
- 6.29 Some shrubs are grafted on to a vigorous root stock, which will tend to develop basal shoots that can dominate and eventually kill the intended named variety. These shoots must be removed as they occur.

Specification for Mulching of Shrub Beds

6.30 Mulch shall be applied to each shrub bed on an annual basis between the end of November and the end of February. Prior to the supply and spreading of mulch to shrub beds the areas shall be totally free of weed growth. Any weed infested areas will be brought under control by use of Glysophate chemical taking care not damage shrub's or other live plants growing within the shrub bed. When chemical control has been established, hand weeding, hoeing or forking will take place to remove the dead weeds. If regrowth or new seedlings germinate the shrub bed will be kept weed free until the onset of Autumn when the introduction of mulch to a depth of a minimum of 75 millimetre thickness will take place. Mulching is to commence in early November and be completed by late February. Care must be taken to avoid mulch spilling out of the beds and onto surrounding areas. All mulching material will be free of leaves/pine needles and will have no contamination from soil or other residues with the intention of producing a clean mulching bed to inhibit future weed growth.

ealthy and vigorous, to promote the correct ative effect and to maintain the role of an thout detriment to the other plants. Pruning portional to the severity of the pruning i.e. aining buds after pruning the greater the will grow.

6.0 Maintenance of Planted Areas

Pruning Techniques

- 6.30 One of the objects of pruning is to divert the food passing up the stem into one or more buds to encourage development in a particular direction. Cut immediately above a bud and as close to it as possible without damaging the bud or the portion of twig which is feeding it. Begin the cut on the opposite side of the stem level with the bud and cut slightly diagonally upwards to avoid the bud but to leave the smallest possible wound.
- 6.31 Pruning of individual shrubs and perennials will be carried out in accordance with one of the pruning schedules as set out on thius page. Refer also to Appendix 2 - Pruning of Plant Groups and Appendix 3 – Pruning of Individual Species for additional guidance.

Pruning Schedule A

6.32 No pruning required other than light shaping and removal of dead diseased wood. Shaping to be carried out in late Spring, remaining pruning as required. All arisings to be removed off and disposed of.

Pruning Schedule B

6.33 Remove all wood which has borne flowers, retaining the young wood to ripen and produce flowers the following year. Pruning to be carried out immediately after flowering. All arisings to be removed off and disposed of.

Pruning Schedule C

6.34 Remove completely one or two old stems, cut back younger flowering shoots to fresh growth of the main branches. Thin out crowded shoots and remove weak twigs. Pruning to be carried out between November and March. All arisings to be removed off and disposed of.

Pruning Schedule D

In February or March, cut back previous season's wood to within two or three buds of the old 6.35 wood. All arisings to be removed off and disposed of.

Pruning Schedule E

6.36 To be cut back to within 75mm of the surrounding bed each Autumn. All arisings to be removed off and disposed of.

SHRUB SPECIES PRUNING	INSTRUCTION	SHRUB SPECIES PRUN	IING INSTRUCTION
Amelanchier	B	<u>Osmanthus</u>	A
Arbutus	<u>A</u>	Pachysandra	A
Artemesia	D	Pernettya	A
Aucuba	A	Perovskia	C
Berberis	<u>A</u>	Pittosporum	<u>A</u>
Ceanothus	<u>A</u>	Potentilla	A
Cistus	<u>A</u>	Prunus	<u>A</u>
Cornus	D	<u>Pyracantha</u>	<u>A</u>
Cotinus	<u>A</u>	Rhododendron	<u>A</u>
Cotoneaster	<u>A</u>	Ribes (except R. sanguineum)	<u>D (B)</u>
Cytisus	<u>A</u>	Rosmarinus	B
Elaeagnus	A	Rubus	D
Escallonia	<u>A</u>	Ruta	D
Euonymus	<u>A</u>	Salix	D
Fatsia	A	<u>Salvia</u>	D
Forsythia	B	Sambucus	D
Fuchsia	<u>D</u>	Santolina	D
Genista	<u>A</u>	Sarcococca	<u>A</u>
Griselinia	<u>A</u>	Senecio	<u>A</u>
Hamamelis	Α	<u>Skimmia</u>	<u>A</u>
Hebe	<u>A</u>	Spiraea	B
Hippophae	<u>A</u>	Symphoricarpos	<u>A</u>
Hydrangea (Dead head after floweri	ing) A	<u>Syringa</u>	<u>A</u>
Hypericum	Α	Viburnum	<u>A</u>
llex	<u>A</u>	Vinca	<u>A</u>
Kalmia	<u>A</u>		
Kerria	B		
Kolkwitzia	C		
Lavandula	D		
Ligustrum	<u>A</u>		
Lonicera	A		
Mahonia	A		
Olearia	<u>A</u>		

6.0 Maintenance of Planted Areas (Continued)

Pruning of Individual Species

Acer campestre	Allow to develop unpruned once established. Remove deformed or crossing shoots as necesary to form a balanced head of branches. As a component in a mixed native hedge this species will be pruned annually between October and February to a height of 1500mm with a base slightly wider than the top.
Amelanchier	Thin out weak or crowded growths if necessary after flowering in May.
Arundinaria	Cut dead canes at the end of winter down to ground level.
Aucuba	No regular pruning except to shape and remove dead wood or dieback as it occurs.
Berberis	Prune deciduous Berberis in late winter. Prune evergreen Berberis in April or after flowering in late May or June.
Buddleia alternifolia	Prune after flowering to cut out flower bearing branches.
Buddleia davidii	Prune hard in early spring just as growth starts.
Buddleia globosa	No pruning except removal of weak or dead wood in March and general shaping.
Buxus (Box)	When grown as a shrub needs no pruning. Formal hedges will need clipping at least twice during the summer to maintain their shape.
Caryopteris	Cut back flowering shoots from previous year in February or early March. Shorten growths to 5-10cm each year and remove thin growths entirely.
Ceanothus (evergreen)	Prune evergreen Ceanothus annually after flowering to trim to within 10cm of the base of flowering shoots. Prune short side growths back almost to framework branches.
Ceanothus (deciduous)	Prune deciduous Ceanothus annually in February or March to remove weak wood and to shorten strong shoots back to two or three buds from the base.
Chaenomeles	After flowering shorten side growths back to two or three buds.
Choisya	No regular pruning except removal of dead wood.
Crataegus monogyna	Allow to develop unpruned once established This species is naturally multi-stemmed with a congested crown. Remove only badly crossing branches as required. As a component in a mixed native hedge this species will be pruned annually between October and February to a height of 1500mm with a base slightly wider than the top.
Cornus sanguinea	Allow to develop unpruned. Restrict spread if necessary by cutting out one in four old shoots every year in early spring. Renovate old neglected plants by cutting hard back to the base of the plant. As a component in a mixed native hedge this species will be pruned annually between October and February to a height of 1500mm with a base slightly wider than the top.
Cornus	Tall flowering Dogwoods, C.kousa, C. florida – No pruning. Bushy Dogwoods, C. alba, C. stolonifera – prune severely in March.
Corylus avellana	Each year remove some older wood in late winter occasionally cutting a branch right to the base. Renovate plants by cutting hard back to the base of the plant in late winter every seven years. As a component in a mixed native hedge this species will be pruned annually between October and February to a height of 1500mm with a base slightly wider than the top.
Corylus	Prune vigorous growths of purple and golden leaved nuts in February or early march annually.
Cotinus	Purple leaved forms can be pruned hard in late March to encourage long shoots or left to develop naturally.
Cotoneaster	Require no regular pruning except removal of dead wood. Hedges require regular clipping.

Pruning of Individual Species (continued)

Cytisus	Prune after flowering to shorten young growth to 2 old wood.
Elaeagnus (variegated)	No regular pruning except to remove any green le
Euonymus	No regular pruning unless clipping as low hedge.
Euonymus europaeus	Prune late in Winter or early in Spring. Prune only stems to the base to open up the centre of the bu
Fatsia	No regular pruning except removal of dead foliage
Garrya	No regular pruning except removal of dead foliage
Genista	No regular pruning except removal of dead foliage
Hebe	No regular pruning except removal of dead foliage
Hedera	Clip if required with shears in May or June.
Hydrangea	Cut out old non-flowering wood to ground level ar over winter and trim plants back to sound wood w
Hypericum	Trim low growing varieties to 100mm annually in I remove dead shoots at the same time.
Kerria	After flowering cut out old wood back to young gro
Lavandula	Lightly trim over as soon as flowers fade to remove
Ligustrum	No regular pruning unless trimmed as a hedge.
Ligustrum vulgare	Allow to develop unpruned. Renovate by hard pru component in a mixed native hedge this species v February to a height of 1500mm with a base sligh
Lonicera nitida	No regular pruning unless trimmed as a hedge.
Lonicera pileata	Trim over annually in March to maintain low bush
Mahonia	Remove long bare stems in late April or May.
Philadelphus	Prune after flowering in summer to remove weak shoots at the base of the plant.
Photinia 'Red Robin'	Shorten long shoots in May.
Prunus lauro/lusitanica	Trim with secateurs in late May or early June unle eight weeks later. Old plants should be cut back i
Prunus spinosa	Allow to develop unpruned. Remove surplus bas spread if required. As a component in a mixed na between October and February to a height of 150
Pyracantha	As a hedge clip twice annually, once after flowerir taking care to preserve and expose the fruits.
Rhus	Cut hard back annually in April to within one or tw
Rosmarinus	Light pruning of shrubs and hedges should be un

2/3 its length taking care not to cut into two year

leaved shoots.

ly to thin congested growth by cutting out older ush.

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and keep shrub well thinned. Leave flower heads when the leaves begin to open.

March and lightly trim taller growing varieties to

rowth or ground level.

ove old stalks and shape plants.

runing in early spring if required in time. As a swill be pruned annually between October and ghtly wider than the top.

hy growth.

growth and cut back to the strongest young

less growing as a hedge in which case trim six to k into hard wood in late April or early May.

asal growth annually in mid-summer to control native hedge this species will be pruned annually 500mm with a base slightly wider than the top.

ring and again in late August or early September

wo buds of the old wood.

ndertaken at the end of May after flowering.

Pruning of Plant Groups

Maintenance of Planted Areas (Continued) 6.0

Pruning of Individual Species (continued)

Rhamnus cathartica	No routine pruning necessary. Remove diseased, damaged, congested or crossing shoots. Shoots that are growing in unwanted directions can also be pruned out.	The follow	ing notes relate to the pruning of plant groups;
Rosa canina (Dog Rose) and	other Shrub Roses.	Deciduous	s Shrubs
Allow to develop unpruned.	Prune hard in the spring to renovate old plants or to gain access to overgrown areas.		Flowering in spring or early summer.
Sambucus nigra (Elder) – Lił	kely to occur naturally in planted areas.		Towering in spring of early summer.
Allow to develop a natural for	rm. Cut back old stems to the ground in winter to renovate neglected plans.		These bear flowers on stems produced during the pr
Sambucus (varieties)	Cut back to within one or two buds of the old wood in March.		Berberis x stenophylla, Forsythia, Weigela, Philadelph after flowers have faded to remove all one year old ste
Salvia	Cut back bare stems in spring.		As young growths develop from the base of the plant
Santolina	Prune annually in April or early May cutting back hard to produce a rounded hummock.		on each former flowering branch.
Senecio	Shape if required in the late spring.	•	Flowering in summer and early autumn.
Skimmia	Shape if required in the late spring.		These bear flowers on the current season's growth.
Spiraea	Spring or early summer flowering – prune after flowering back to strong young shoots.		Buddleia davidii (not alternifolia) and Caryopteris. P
Spiraea	Late summer flowering – prune in early spring, cutting back to within two or three buds of the older wood.		previous years growth, on which old flower heads can or pairs of buds from the base. Also remove any wea
Symphoricarpos	Thin out weak stems in late winter.		Prune lightly in the autumn if plants have develope
Tamarix	Spring flowering – Prune after flowering.		operation at the normal time in the spring.
	Late summer/autumn flowering – prune back in February or early March to within two or three buds of the old growth.		Note that evergreen Ceanothus and Buddleia alternifo
Ulex	No regular pruning except old plants can be cut down to 30cm above ground in April to rejuvinate.		flowering.
Viburnum	No regular pruning. V.tinus can be trimmed as a hedge in May annually.	•	Deciduous shrubs grown for their stems or foliage.
Viburnum lantana	Allow to develop unpruned. Prune hard in late spring to renovate old plants.		Cornus species (Dogwoods). Cut stems back to nea
Viburnum opulus	Allow to develop unpruned. Prune hard in late spring to renovate old plants.		early April.
Vinca	Clip over in spring as required.	Evergreen	Shrubs
Weigela	Prune after flowering to remove the previous years growth.	Lingiteri	

Evergreens start to make growth later in spring than most plants and should be pruned in late May or June. Remove diseased or damaged wood at this time.

Do not prune evergreens in late summer or autumn as this will encourage soft growth which will be damaged in the winter.

Also remove shoots bearing green leaves from anywhere on a variegated plant such as Elaeagnus or Euonymus.

previous growing season. They include lphus and early flowering Spiraea. Prune stems on which flowers have been borne. ant cut them back to leave the lowest one

th. They include deciduous Ceanothus, Prune in March or April to cut back the an still be seen, to within one or two buds reak, dead or diseased wood at this time.

ped excessive growth and complete the

nifolia should be pruned immediately after

near ground level at the end of March or

8.0	Maintenance of Hedges
Pruning Or	rnamental Hedges
8.1	Ornamental hedges to be pruned twice annually in S
8.2	If a hedge is in a regularly maintained condition remo Cutting not to exceed 1 year's growth.
8.3	Hedges are to be pruned to a rectangular profile with
Pruning Na	ative Hedges
8.4	To comply with the 1981 "Wildlife and Countryside take place in the period 1st March to 31st August inc
8.5	Normally these will consist of hedge type species of which can be layed if overgrown.
8.6	Cutting to be carried out once between the months year.
8.7	Hedges are to be pruned to a rectangular shape wi Hedges must also be impenetrable.
8.8	Prune young deciduous hedges in early spring to leading shoots to encourage vigorous side branching
Native Hed	lge Methodology

8.9 Hedges are not to be cut back into the old wood. Hedges will be cut using either sharp secateurs, hand held shears or hand held reciprocating blade powered hedge cutters. All cuts will be clean, and any ragged edges will be removed using a sharp knife. The use of tractor mounted flail type cutters will not be allowed. All arisings will be collected and disposed of at the contractors own expense. All arisings including clippings lodged in the hedge, will be cleared from site at the end of each working day and disposed of at a suitable, previously agreed approved tip or recycled as green waste. All arisings must be removed from adjacent surfaces. All staff using powered hedge cutting equipment will hold a N.P.T.C. or similar certificate of competence. Any damage caused by the contractor will be rectified at the contractor's own expense.

7.0 Maintenance of Trees

Recently Planted Trees

- 7.1 New trees should be regularly monitored and examined for damage, instability and general vigour and remedial action taken accordingly.
- 7.2 Check stakes and ties on a monthly basis and adjust or replace as required to adequately support the tree and avoid chafing. As soon as the tree is established and self-supporting remove the stake and ties to prevent damage or constriction of the trunk.
- 7.3 Fertilise trees each spring with a top-dressing of 100gm of bonemeal.
- 7.4 Weed tree positions by hand as required and remove any basal growth that may develop from root-stock on grafted trees. Avoid strimmer or mower damage to the base of the trunk.
- 7.5 Prune trees as required in the Autumn to remove dead or diseased wood and to encourage the formation of a balanced shape unless the tree is appropriately and naturally deformed due to species or environment.
- 7.6 Remove dead or diseased trees as required and replace.

Pruning Trees

7.7 Pruning or shaping of young trees shall be carried out during the winter months. Tree surgery to be in accordance with BS3998. Remove whole branches back to the join with the next largest branch or the main trunk. Do not leave long thick stubs. Cut branch close to but not flush with the trunk or branch to leave the smallest possible wound. Sealant paint is not necessary.

September and February.

ove current growth rather than old wood.

th the base slightly wider than the top.

Act", no wild or native hedge cutting to clusive during each year.

of Hawthorn, Holly, Hazel, Field Maple

of October to February of the following

vith the base slightly wider than the top.

within 15cm of the base of the young ۱g.

9.0	Maintenance of Climbing Plants and Wall Shrubs	10.0	Watering of Planted Areas			
General		Watering of Ground Level Plants				
9.1	Wall shrubs and climbing plants can be divided into four groups according to their habit of growth;	10.1	Ground level planted areas in natural soil will be stress in plants and will be watered if required as			
	Self Supporting Climbers – Ivy, Hydrangea, Virginia Creeper.		Specimen plants will be watered individually dur			
	Trim shoots in late winter/early spring if required.		10L water to the root-ball by directing a running h			
	Curling or Twining Climbers – Clematis montana, Honeysuckle.		Ongoing watering of the entire planted area will b dry conditions by application of 24 Litres/m2 i.e.			
	Prune when necessary to thin out flowering shoots. Train to trellis or wire supports to create a fan or espalier shape as the plant develops.		at 10L/minute will take approximately 2.5 minute apply 24L/m2 to 10/m2.			
	Climbers with Hooked Thorns or Scrambling Stems – Roses.		Individual trees to be watered individually during water to the root-ball by directing a running hose			
	Climbing Roses flower on the current seasons growth and it is necessary to train out a framework of permanent branches from which flowering growths are produced each year.	Watering of Grass Areas				
	Prune young growths in late February or March each year to within two or three buds from their base. Remove weak and dead wood at this time.		Grass will be monitored for soil moisture and dra as follows;			

Wall Shrubs – Garrya, Ceanothus, Cotoneaster, Pyracantha.

Wall shrubs can be trained formally to form an espalier but can also be pruned as shrubs.

Watering of the grass area will be undertaken every two weeks in prolonged dry conditions by application of 24 Litres/m2 i.e. a typical hose/sprinkler combination running at 10L/minute will take approximately 25 minutes to apply 24L/m2 to 10/m2.

Il be monitored for soil moisture and drought as follows;

luring times of drought by direct application of g hose into the root-ball for 1 minute per plant.

Il be undertaken every two weeks in prolonged e. a typical hose/sprinkler combination running utes to apply 24 Litres/m2 and 25 minutes to

ng times of drought by direct application of 40L se into the root-ball for 4 minutes per plant.

drought stress and will be watered if required

11.0 **General Maintenance**

Litter and Debris Collection

11.1 During each service visit and prior to commencing cutting the grass, the contractor shall collect all litter and debris from all areas.

Leaf Clearance

11.2 The Contractor shall collect leaves from all areas and remove from site as follows:

On three consecutive service visits after 1st leaf fall early November - Mid December.

On one further service visit in January after 2nd fall.

Weed Control

- 11.3 A weed is defined as a plant which has grown in the wrong place. This might include selfsown trees and shrubs as well as suckers.
- 11.4 The contractor shall control the growth of weeds and moss on hard surface areas including kerb lines, car parks, gravel areas and paths using a suitable non-selective herbicide. Herbicide shall be applied twice annually in February and September in addition to any necessary spot treatments required during the season. In addition weed growth to hard surfaces and along fences should be kept clear by strimming or manual removal.
- 11.5 All excess weed growth in flowerbeds, herbaceous borders, base of hedges & shrub beds will be removed by hand weeding, forking or hoeing which ever is practicable after chemical application.
- 11.6 All weed growth along kerblines, at kerb junctions with road surfaces, footpaths or hardstanding shall be removed.

Pesticides

- 11.7 The contractor must hold a certificate of competence for the correct use of pesticides, fertilisers and weed killers. All pesticides must be to the latest relevant British Standard and shall be applied strictly in accordance with the manufacturers instructions. Particular attention should be paid to the safety of children, pets or any other specific hazard identified. Spraying shall not take place when the weather is inclement and the contractor will not undertake spraying of any type unless the weather conditions are deemed to be suitable.
- 11.8 If the weather conditions are suitable for spraying, the contractor should be aware of spray drift and familiarise themselves with the areas which will be receiving the application e.g. the possibility of the existence of wind tunnels on the corner of building lines.

11.9

The contractor shall be held responsible for any damage due to negligence or carelessness in carrying out spraying operations. All fertilisers and pesticides must be kept in a locked metal or heavy-duty plastic container within or on the contractor's vehicle whilst on the scheme. The container must be clearly marked with the words " Danger Poison". A record must be kept of pesticides and fertilisers being applied, the record must include (as a minimum):

The person who applied the pesticides and fertilisers

The area to which the pesticides and fertilisers have been applied

The date that the application took place

The signature of the operative responsible.

The record must be kept up to date at all times and be open to inspection by the managing agent. Failure to do so will be viewed as a breach of the contract terms and conditions.

Sweeping of Hard Areas

11.10 All paved areas shall be swept at each service visit and the arisings removed. Fallen tree branches, debris and fruit shall also be removed.

Biodiverse Roof

11.11 The biodiverse roof on Block B should be weeded several times a year, but a less intensive regime will result in more mixed vegetation as grasses and other plants establish. Maintenance would still be required once a year to remove woody plants, such as tree seedlings, that have the potential to disrupt or puncture the waterproof lining of the roof. Maintenance will be undertaken only by contractors fully experienced in high-level access using harnesses and restraints to eliminate the potential risk of falling from height.

	ape Maintenance Schedule - Soft Landscape							
Item Ref.	Maintenance Component and Tasks	Quantity	Unit	Frequency per Annum	Month or Season	Cost per occasion	Total Annual Cost	
A1	Trees			÷	•	•	•	
	Remove epicormic growth		Nr	1				
	Water newly planted trees (first 3 years)		Nr	12				
	Annual inspection		Nr	1				
	Check/adjust stakes/ties		Nr	2				
A2	Amenity Grass							
	Cut Grass		M2	20				
	Trim edges and around trees in lawns		M2	20				
	Rake and Remove Leaves		M2	2				
	Aeration		M2	1				
	Scarify		M2	1				
	Repair (Assume 5% per annum top-dress, re-seed		M2	1				
A3	Ornamental Planting							
	Fork Over Soil		M2	1	Spring			
	Weeding		M2	8				
	Cut back dead herbaceous vegetation. Note: retain hard stems and seed heads for wildlife and aesthetics		M2	1	Late Autumn			
	Cut back perennials with soft stems		M2	1	Late Autumn			
	Dead-head flowers in late summer and into autumn to encourage further flowering		M2	3	Late Summer/Autumn			
	Lift, divide and replant herbaceous vegetation to fill gaps and rejuvenate plants		M2	1	November or March/April (avoid frost)			
	Remove dead foliage by hand in spring to encourage the flush of new growth from the base of the plants		M2	1	Spring			
	Prune shrubs and climbers		M2	3				
	Replacement planting assumed 10% total area		M2	1				
	Mulch to a depth of 50mm		M2	1				
A4	Hedges							
	Prune to rectangular tapered shape		Linear M	2	Winter			
	Weeding		Linear M	8				
	Mulch to a depth of 50mm		Linear M	1				

tem Ref.	Maintenance Component and Tasks	Quantity	Unit	Frequency per Annum	Month or Season	Cost per occasion	Total Annual Cost	
46	Paving	·	·					
	Remove leaves		M2	5	Autumn/Winter			
	Hand sweep		M2	2				
	Pressure wash		M2	2				
	Check for trip hazards/uneven slabs or blocks and rectify		M2	12	Monthly			
47	Low Walls							
	Inspect and repair as required		Linear Metre	12	Monthly			
48	Railings							
	Inspect and repair as required		Linear Metre	12	Monthly			
49	Benches							
	Inspect and Clean		Nr	2				
410	Litter Bins							
	Empty		Nr	12	Monthly			
	Inspect and Clean		Nr	2				
411	Lighting							
	Inspect and Clean		Nr	2				
412	Gullies							
	Inspect and Clean		Nr	2	Autumn/Winter			
413	Litter Pick							
	Litter Pick and Remove		M2	24	Bi/Monthly			

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