



### PROPOSED PLANTING

Code	Species	Form	Girth (cms)	Heigh (cms)
AP	Acer platanoides 'Farlakes Green'	Extra Heavy Standard (ex 3x; clear stem 200cm;	16-18	450- 625

Hedging PROPOSED ORNAMENTAL HEDGROW PLANT % mix Species 100 Prunus laurerceracus rotundifolia

% mix	Species	Age/ form	1.		oots	Specification
5	Acer campestre	1+1	40-6	60 B	R	-
10	Carpinus betulus	1+1	60-8	80 B	R	Transplant – seed raised
5	Cornus sanguinea	1+1	40-6	60 B	R	Branched, min. 2 breaks
5	Corylus avellana	1+1	40-6	60 B	R	Branched, min. 2 breaks
40	Crataegus monogyna	1+1	40-6	60 B	R	-
2.5	Euonymus europaeus	1+1	40-6	60 B	R	Branched, min. 3 breaks
10	Ilex aquifolium	2 ltr	40-6	60 C		Lead + lats
5	Ligustrum vulgare	1+1	40-6	60 B	R	Branched, min. 3 breaks
5	Prunus spinosa	1+1	40-6	60 B	R	Branched, min. 2 breaks
2.5	Rosa canina	1+0	40-6	60 B	R	Branched
5	Taxus baccata		40-6	i0 3	Ļ	Leaders; furnished to base
5	Viburnum opulus	1+1	40-6	60 B	R	Branched, min. 2 breaks
andomly Groundo	double staggered row with 4 throughout the Crataegus ma cover planting COVER MIX	atrix. To	be mainta	ained at ap	prox. 1	.5m height, 1.2m width.
% mix	Species		Ain pot ize	Height (cms)	Spe	cification
33.3	Hedera helix	2	ltr	40-60	Min	, 2 breaks from pot level
33.3	Rubus 'Betty Ashburne	r' 2	ltr	40-60	Min	, 2 breaks from pot level
	Vinca minor		ltr	20-30	FIC	shoots from pot level

#### Bulbs **BULB PLANTING** Code Sneries

Code	Species		Min. circumference	Planting		Planti	ng time	
CS	Crocus sativus		7-8 cms	Spacing 5	cms	Autun	nn	
GN	Galanthus nivalis		4/5 cms	Spacing 5	cms	Spring	Spring/Autumn	
NP	Narcissus pseudonarcissus 'lobularis' Narcissus 'Tete a Tete'		narcissus 3-4 cms Spacing 1		)-15cms	Autun	Autumn	
NT			8-10 cms	Spacing 10	cms	Autumn		
	at approximately 3 times the nd Planting	e neight	or the build.					
Voodla REES	nd Planting	_			Height	(cms)	Root	
/oodla REES Code	nd Planting Species	Fo	rm	ductiond	Height	(cms)	Root	
AC	Acer campestre	Fo	r <b>m</b> 1 Transplant. See		60-80	(cms)	BR	
AC	nd Planting Species Acer campestre Acer platanoides	Fo	rm 1 Transplant. See 1; Transplant - see	ed raised	60-80 60-80	(cms)	BR BR	
Voodla REES Code AC AP	Acer campestre	Fo	r <b>m</b> 1 Transplant. See	ed raised	60-80	(cms)	BR	
voodla	nd Planting Species Acer campestre Acer platanoides	Fo 1+ 1+ 5L	rm 1 Transplant. See 1; Transplant - see	ed raised als	60-80 60-80	(cms)	BR BR	
Voodla REES Code AC AP	Acer campestre Acer platanoides Ilex aquifolium	Fo 1+ 1+ 5L 1+	rm 1 Transplant. See 1; Transplant - see Leader with later	ed raised als d raised	60-80 60-80 60-80	(cms)	BR BR CG	
AC AP AC AP AC AP AD AD AD AD AD AD AD AD AD AD AD AD AD	Acer campestre Acer platanoides Ilex aquifolium Malus sylvestris	Fo 1+ 1+ 5L 1+ 1+	rm 1 Transplant. See 1; Transplant - see Leader with later 1 Transplant. See	ed raised als d raised d raised	60-80 60-80 60-80 60-80	(cms)	BR BR CG BR	

% Mix	Species	Age/form	Height (cms)	Roots
15	Corylus avellana	1+1; Transplant - seed raised; branched; 2 breaks	40-60	BR
30	Crataegus monogyna	1+1; Transplant - seed raised; branched; 2 breaks	40-60	BR
10	Ilex aquifolium	2L pot. Leader with laterals.	40-60	CG
5	Lonicera periclymenum	Caned; several shoots; 3 breaks	60-80	3L
15	Prunus spinosa	1+1; Transplant - seed raised; branched; 2 breaks	40-60	BR
5	Rosa arvensis	1+0; Seedling; Provenance UK Area 403	40-60	BR
5	Rosa canina	1+1; Transplant - seed raised; Provenance UK Area 304	40-60	BR
15	Sambucus nigra	1+0; Seedling; branched; 2 breaks	40-60	BR

Areas of planting as show JA drawings J00382.SLP1	
Grass verge	135 m <sup>2</sup>
Woodland wildflower mix	155 m²
Ground cover mix	440 m <sup>2</sup>
Bulb planting mix	485 m <sup>2</sup>
Ornamental hedge mix	275 m <sup>2</sup>
Native hedge mix	125 m <sup>2</sup>
Native shrub mix	385 m <sup>2</sup>
Woodland understorey mix	To be agreed on site prior to works commencing/ordering
Woodland tree planting	To be agreed on site prior to works commencing/ordering

## CLIENT



Wood Environment and Infrastructure Solutions **UK** Limited PROJECT

Bristol Airport 12mppa post submission support 

TITLE Soft Landscaping Plan - Planting Sheet 2 of 3 Revision A							
SCALE @	A0	CREATED BY	CHECKED BY				
1:100		JS	AP				
REFEREN	CE	REVISION	DATE ISSUED				
J00382.	.SLP2	А	20/3/2019				
u – – – – – – – – – – – – – – – – – – –		act location of wo to be agreed on	odland trees and site prior to works				
(•) T	rees						
N	lative Hedge						
C C	Prnamental He	dge					
N	lative Shrub M	lix					
G	Fround Cover N	Чіх					
: x x x x x : x x x x x x : x x x x x x : x x x x	ulb Planting						
	leadowmania . pproved	AM14 for roadside	e verges or similar				
	morsgate Mix imilar approve		s for woodland or				

similar approved Revision A - 13/03/19

Base-map updated to most recent drawing (C1124-M2-A38-011 2.5) from CTAS, planting changed to reflect repositioning of fence line. Soft Landscape Specification

neral
s the responsibility of the designer/developer to design foundations and structures to accommodate proposed and existing trees and shrub planting, with reference made to NHBC Standards Chapter
2 Building near Trees, Revised 2018 where appropriate.
e developer/contractor should satisfy themselves that trees are a safe distance from drainage runs d services and that no planting falls within service strips.
landscape contractors shall make themselves aware of all service locations prior to commencing site works including planting operations.
planting works to be carried out in accordance with BS4428 1989 'Code of Practice for General ndscape Operations (excluding hard surfaces)'.
nere any deviance from this specification occurs within a scheme, the contractor shall request the evant detail from the designer prior to proceeding.
isting Vegetation.
trees and hedges which are shown for retention should be inspected for safety by a suitably alified member of the Arboricultural Association and subject to BS5837 2012 – Trees in relation to
aign demolition and construction recommondations. They should be protected during all storage of

design, demolition and construction - recommendations. They should be protected during all stages of construction with temporary fencing in accordance with BS5837 2012, and must comply with all applicable planning conditions. Any tree surgery required shall also be in accordance with BS3998 2010 'Tree work. Recommendations' The landscape contractor shall make the Landscape Architect aware of any injurious weeds (classified under the Weeds Act 1959) and invasive weeds (as noted in section 14(2) of the Wildlife and Countryside Act 1981, Schedule 9 Part II) that may be present on site at the earliest opportunity. Topsoil. The landscape contractor shall satisfy himself as to the suitability and availability of topsoil on site, and if necessary topsoil shall be imported from an approved site. Soil testing to be carried out as required by the Contract Administrator (CA). All topsoil to be in accordance with BS3882 2015 -Specification for topsoil and requirements for use. The depth of topsoil spread shall not normally exceed 300mm (maximum depth 400mm) with suitable loosened subsoil providing the remainder of

the minimum rooting depth. Minimum rooting depth shall normally be Grass areas 150-400mm depth, Shrub areas 450-600mm depth, Trees 900+mm depth. Tree pits to be backfilled with topsoil – see tree planting specification.

Soil Ameliorants. To be applied to all newly planted areas unless directed otherwise by the CA. Alginure Seanure Soilbuilder or similar approved to be incorporated at approximately 70g/m2 to shrub beds worked into the top 50mm of soil, and 1.5kg per m2 of backfill for pit planting. All application rates to be applied as per manufactures recommendations/ instructions. Granular Slow Release Fertiliser (ie Scotts Enmag CRF 11.22.9+6Mg or similar approved) to be applied as per manufacturers instructions. Plant Stock. All plant material to be as specified in the Plant Schedule, and available for inspection by the Landscape Architect and/or CA. All plant material shall be in accordance with BS3936-1 (1992) 'Nursery Stock Specification for Trees

and Shrubs', BS3936-10 (1990) 'Nursery Stock Specification for Ground cover plants', BS3969:1998+A1:2013 'Recommendations for Turf for General Purposes', 'Handling and Establishing Landscape Plants', Horticultural Trades Association, 2002 and The National Plant Specification – Handling and establishment Nov 1995. Any plant stock to be planted outside the planting season (November to March unless otherwise stated) to be containerized. All containerized stock to have healthy, well-developed root system within the specified pot size. Where growing on in the nursery is necessary all plant material is to be re-potted to the next approved pot size, re-spaced to allow for 15-20% growth per season, and maintained to healthy vigorous growth irrespective of weather conditions. Planting Specification – proposed tree, shrub and hedge planting.

General Planting of trees and shrubs to take place between end of October - March unless otherwise agreed. All planting of these and sindus to take place between end of october - March these otherwise agreed. All planting areas to be weed free prior to planting. Allow for application of approved translocated systemic herbicide in line with Health and Safety Regulations (HSE), Control Of Pesticide Regulations 1986 amended 1997, EU Biocides regulation 528/2012 (EU BPR) and Control of Substances Hazardous to Health (COSHH) 2002. Application to be as per manufacturers instructions. All planting beds to be thoroughly forked over or rotovated to a depth of 400mm, prior to planting. Ensure that the subgrade and topsoil are both free draining. All planting beds to be 90mm below adjacent hard or grass surfaces. Where mown grass is proposed, soil levels to be 10mm below, of flush with adjacent surfaces.

 Tree Planting

 Tree Planting

 Trees to be planted into prepared tree pits, and backfilled with topsoil/soil ameliorants as above. Tree pits for container grown trees to be as below, unless otherwise directed:

 6-10cm girth
 900mm diameter x 750mm depth

 10-18cm girth
 1200mm diameter x 900mm depth

 Semi-mature
 1500mm diameter x 1050mm depth

 Rootballed trees – pit diameter to be 500mm greater than the root-ball dimensions, wide enough to accommodate roots when fully spread. Depth of tree pit to be 150mm greater than the depth of the rootball/container and backfilled with 150mm layer of approved clean drainage gravel. Base and sides of all pits to be roughened to allow root penetration. Works to be in accordance with BS 4043:1989

of all pits to be roughened to allow root penetration. Works to be in accordance with BS 4043:1989 Transplanting Root-balled Trees. Where trees are planted within grassland they shall have a 400mm diameter circle around the base of the truth to be maintained free from grass and spread with 75mm mulch. All trees to be watered in when planted with a minimum of approx. 55litres/12 gallons, and then on a weekly basis for the duration of 12 months maintenance period, except when the weather conditions are very wet. Tree Stakes: All trees (except for semi-mature trees) to be single staked – stakes well driven into the ground, minimum 300mm into bottom of tree pit. Stakes to be pressure treated, round (75mm diameter), peeled larch or similar. Trees to secured with plastic/rubber proprietary tree ties, nailed to the stake. For trees 14-16mm girth or larger, 2 no. 100mm diameter stakes required. All stakes to be pointed at one end, extending above ground by 1/3 of the height of the ground to the first branch. Shrub/Hedge Planting Shrubs to be planted in pits 150mm wider and deeper than their root spread. Pits to be backfilled with a mixture of topsoil/soil ameliorate as above. Plants to be a minimum of 300mm from and adjacent hard surface. All stock to be well watered when planted with approx. 20L of water per m2.

Following planting and watering operations, beds to be mulched with 75mm of approved mulch unless otherwise instructed. Climbers Climbers to be planted a minimum of 300mm from the base of a wall/structure, and trained back to support wires, along 2no. canes approx. 600mm long firmly lodged in the ground either side of the Planting requirements as per Shrub/Hedge planting.

Buffer Planting All feathered trees and whips to be planted in prepared pits 600x600x600mm for feathered trees, and 300x300x300mm for whips. Pits to be backfilled with topsoil/soil ameliorants as above. All plants to be well firmed. Feathered trees to be single staked. All stock to be well watered when planted with a minimum of 4.5L/whip and 18L/feathered tree prior to applying 75mm depth bark mulch. All trees to be fitted with proprietary rabbit guards. Grass Areas Topsoil for grassed areas to be prepared to a fine tilth, all stones over 50mm removed and firmed to achieve a level surface. Grass seeding to comply with BS 4428:1989. Water all grass areas to

maintain a healthy growth. Seeding to take place during period 1<sup>st</sup> March – 31<sup>st</sup> May, or 1<sup>st</sup> September – 31<sup>st</sup> October unless otherwise directed. <u>Turf Areas.</u> Preparation for turfed areas as for areas of seeded grassland. Turf to conform to BS 3969:1998+A1:2013 from an approved source. Turf to be a high quality, purpose grown turf. Establishment cut to all grass areas. When grass is 50mm high remove any debris, litter and stones and cut grass to between 25-30mm.

remove all arisings. Maintenance Regular visits shall be made for twelve months following practical completion, to maintain all planted areas in a weed and litter free condition. Minimum number of visits to be Tree and Shrub areas min 8 visits per year Amenity/species rich grassland min 16 visits per year Conservation/wildflower meadow min 2 visits per year (early spring and after

seed drop). Maintenance visits to include watering, pruning, pest/disease control, litter removal, checking of tree stakes and ties and re-mulching as required. All planting beds to be maintained with a mulch layer of medium grade pulverized bark (0-30mm particle size) to a depth of 75mm. All mulch to be pest, disease and weed free and shall not have been treated with any additives. Mulch to be spread carefully so as not to cover shoots and foliage and to finish 15mm below adjacent surfaces. Amenity grassland to be cut to achieve a neat and tidy appearance, with a mowing height of 25mm. All arisings to be removed from site. Mowing to be suspended if drought or very wet conditions occur. PLANTING UNDER EXISTING TREES

All Arboricultural works to follow good horticultural practice and comply with BS3998 2010 'Tree work. Recommendations'. Plant under deciduous trees to take place during autumn, whenever possible. This will allow new under-storey planting chance to establish before tree leaf break in spring. Where proposed planting is to take place within the Root Protection Zone of existing trees, care must be taken to avoid/minimise disturbance to tree roots. No machinery to be used in the vicinity of the Root Protection Zone. Any excavations to be by hand digging only. No spoil/ building materials etc to be stored within the Root Protection Zone. Where turf or weeds are present beneath the existing trees, remove by hand digging. Care must be

taken not to dig too deeply. Remove excess soil etc from weeds/turf and return this to planting area. Where there is substantial weed/turf to be removed apply systemic, non-selective herbicide only – Glyphosate or similar approved. To be applied as per manufacturers instructions. Care to be taken that the weedkiller/spray does not come into contact with the leaf area of existing trees/shrubs etc. Roots and tree trunks are unaffected by such trans-located herbicides. When turf/weeds have died, removed by careful hand digging. Where planting is to be carried out over more than a day, water well and temporarily mulch or line with polyethylene sheet, any soil areas that are newly cultivated. This will reduce evaporation and keep any exposed roots from drying out. To excavate planting pits, hand dig pit large enough to accommodate the roots of the proposed under-storey planting. Where possible locate planting pits to avoid any large root (5cms +) encountered. When hand digging retain as many existing roots as possible. No roots of 2.5cms in diameter or greater to be cut unless the councils tree officer/supervising officer has agreed beforehand. Where necessary, small tree roots may be cut through to allow planting pits to be located as limited pruning of smaller roots will not adversely affect the tree. Where roots are to be pruned, use sharp tools (secateurs or handsaw) to make clean cut. Leave as small a wound as possible. Add a sprinkling of granular slow release fertiliser ie Scotts Enmag CRF N:P:K 11.22.9+6Mg / organic compost PAS 100 or similar approved, prior to planting. Application as per manufacturers' instruction.

When planting beneath existing trees, initial work should be carried out in sections near to the tree, working away to the perimeter of the planting bed. Lightly water sections when completed. Apply organic mulch to cultivated ground (10 -15 cm in depth) taking care to keep mulch away from tree trunks. Renew mulch each spring where tree roots are shallow and dense. Water thoroughly when planting is complete, and continue suitable watering regime to ensure the continued thriving of all plants.

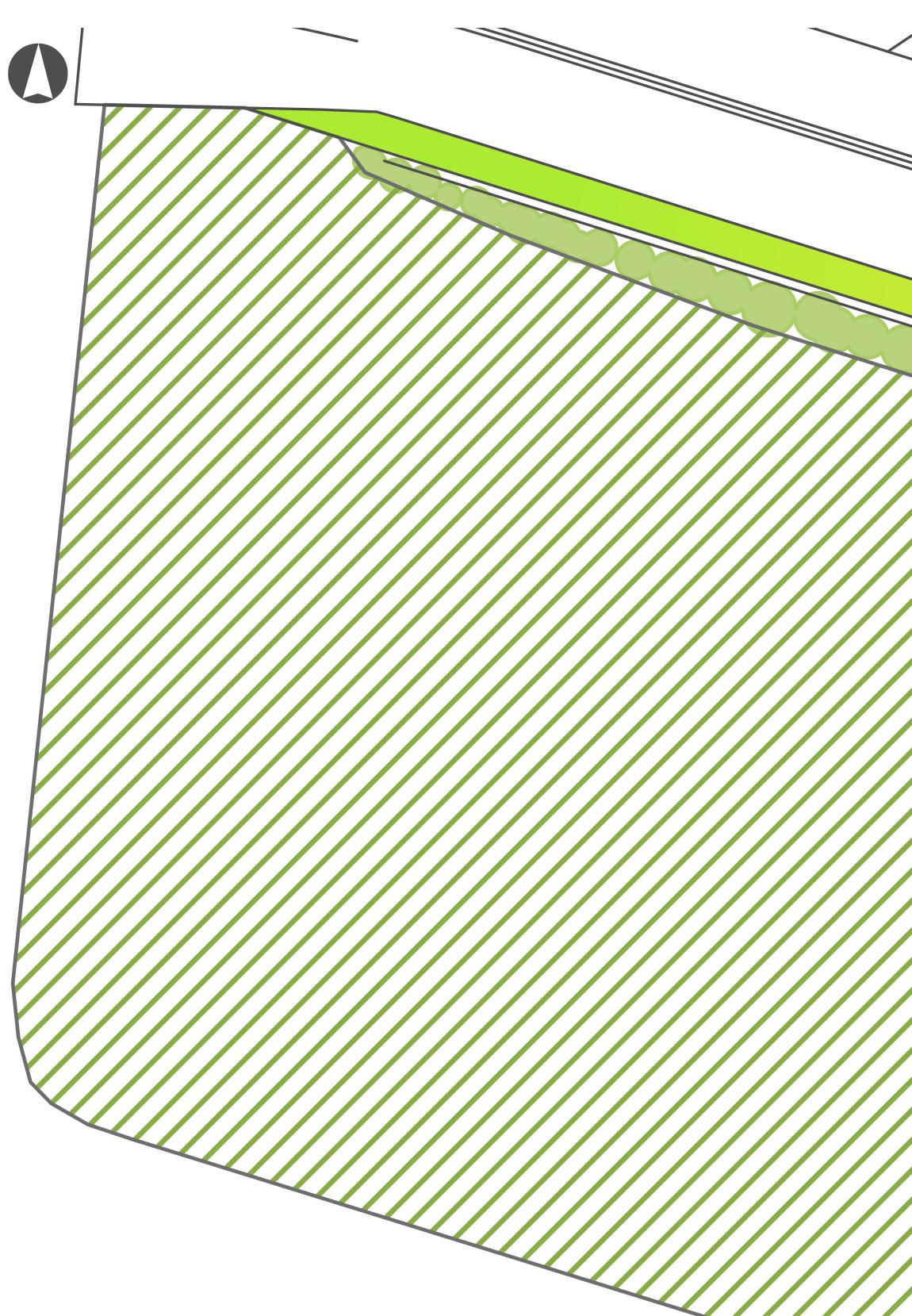
# Base-mapping taken from Drawing C1124-M2-A38-011 2.5 from C-TAS

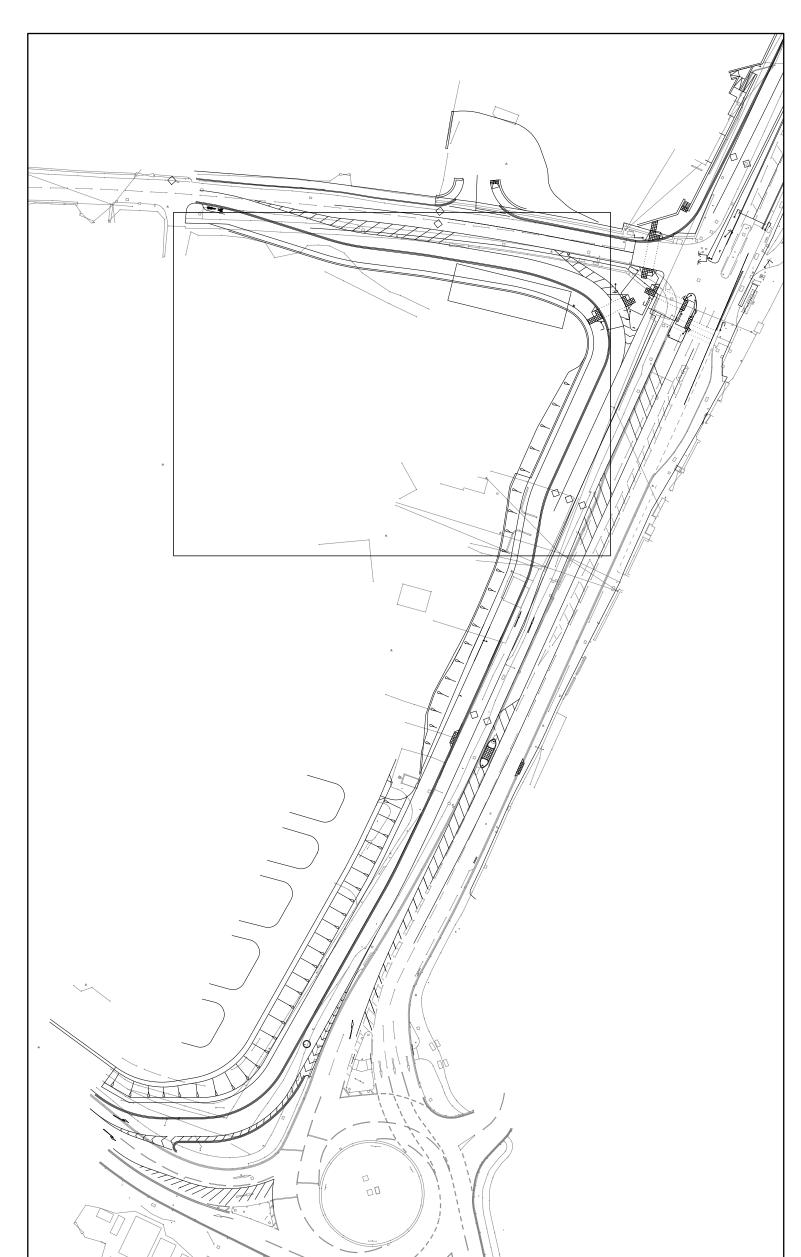
	Girth (cms)	Height (cms)	Min. No. Branch	Roots
y Standard (ex em 200cm;	16-18	450- 625	5	RB
annrox 10-15m hei	abt			

% mix	Species	Height (cms)	Roots	Specification
100	Prunus laurerceracus rotundifolia	80-100	RB	Bushy. 7 breaks

To be maintained as a formal clipped hedge - Height approx. 1.5m, width 1.2m.

Min. circumference	Planting	Planting time
7-8 cms	Spacing 5 cms	Autumn
4/5 cms	Spacing 5 cms	Spring/Autumr
3-4 cms	Spacing 10-15cms	Autumn
8-10 cms	Spacing 10 cms	Autumn





PROPOSED PLANTING

AP Ac			(cms)	(cms)	No. Branch	
pla	er atanoides arlakes Green'	Extra Heavy Standard (ex 3x; clear stem 200cm;	16-18	450- 625	5	RB
rees to be pl	lanted centrally w	en' – Final size approx. 10-15m hei ithin proposed hedgerow, at 10m OGROW PLANTING AT AIRPORT E	spacing.	1	1	1

% mix	Species	Height (cms)	Roc
100	Prunus laurerceracus rotundifolia	80-100	RB
	nted in a single row, at 2 per lin ntained as a formal clipped he		.5m, wid

PROPOSED NATIVE HEDGE MIX ALONG A38						
% mix	Species	Age/	Height	R		

% mix	Species	Age/ form	Height (cms)	Roots	Specification					
5	Acer campestre	1+1	40-60	BR	-					
10	Carpinus betulus	1+1	60-80	BR	Transplant – seed raised					
5	Cornus sanguinea	1+1	40-60	BR	Branched, min. 2 breaks	Woodla	nd Planting			
5	Corylus avellana	1+1	40-60	BR	Branched, min. 2 breaks	TREES	ind i fancing			
40	Crataegus monogyna	1+1	40-60	BR	-	Code	Species	Form	Height (cms)	Root
2.5	Euonymus europaeus	1+1	40-60	BR	Branched, min. 3 breaks		ALCON STREET		A CONTRACTOR	a de la contra de la
10	Ilex aquifolium	2 ltr	40-60	С	Lead + lats	AC	Acer campestre	1+1 Transplant. Seed raised	60-80	BR
5	Ligustrum vulgare	1+1	40-60	BR	Branched, min. 3 breaks	AP	Acer platanoides	1+1; Transplant - seed raised	60-80	BR
5	Prunus spinosa	1+1	40-60	BR	Branched, min. 2 breaks	IA	Ilex aquifolium	5L Leader with laterals	60-80	CG
2.5	Rosa canina	1+0	40-60	BR	Branched	MS	Malus sylvestris	1+1 Transplant. Seed raised	60-80	BR
5	Taxus baccata	-	40-60	3L	Leaders; furnished to base	PA	Prunus avium	1+1 Transplant. Seed raised	60-80	BR
5	Viburnum opulus	1+1	40-60	BR	Branched, min. 2 breaks	QR	Quercus robur	1+1 Transplant. Seed raised	60-80	BR
-		E0mm hot			etween plants. Plant species	TB	Taxus baccata	5L. Leaders furnished to base.	60-80	CG

**GROUNDCOVER MIX** % mix Species

	191-10	size	(cms)	1 C A MARKED IN COMPANY
33.3	Hedera helix	2 ltr	40-60	Min, 2 breaks fro
33.3	Rubus 'Betty Ashburner'	2 ltr	40-60	Min, 2 breaks fro
33.3	Vinca minor	2 ltr	20-30	5/6 shoots from
Planted a	at a density of 4 plants per m <sup>2</sup> in ra	andom spec	ies groups of	5, 7 or 9, avoiding obv

Min pot Height Specification

#### Bulbs BULB PLANTING

Code	Species	Min. circumference	Planting	Planting tin
CS	Crocus sativus	7-8 cms	Spacing 5 cms	Autumn
GN	Galanthus nivalis	4/5 cms	Spacing 5 cms	Spring/Autu
NP	Narcissus pseudonarcissus 'lobularis'	3-4 cms	Spacing 10-15cms	Autumn
NT	Narcissus 'Tete a Tete'	8-10 cms	Spacing 10 cms	Autumn

planted at approximately 3 times the height of the bulb.

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	<u> </u>
ORT ENTRANCE	

ts	Specification	
5	Bushy. 7 breaks	
th 1.	2m.	

% Mix Species

oots	Areas of planting as show JA drawings J00382.SLP1			
1	Grass verge	135 m <sup>2</sup>		
t.	Woodland wildflower mix	155 m <sup>2</sup>		
;	Ground cover mix	440 m <sup>2</sup>		
6	Bulb planting mix	485 m <sup>2</sup>		
2	Ornamental hedge mix	275 m <sup>2</sup>		
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	Native shrub mix	385 m <sup>2</sup>		
	Woodland understorey mix	To be agree works comm		
(	Woodland tree planting	To be agree works comm		

rom pot level rom pot level n pot level ovious straight lines		15	Corylus avellana	1+1; Transplant - seed raised; branched; 2 breaks	40-60
		30	Crataegus monogyna	1+1; Transplant - seed raised; branched; 2 breaks	40-60
		10	Ilex aquifolium	2L pot. Leader with laterals.	40-60
	<u>,</u>	5	Lonicera periclymenum	Caned; several shoots; 3 breaks	60-80
Planting time Autumn Spring/Autumn		15	Prunus spinosa	1+1; Transplant - seed raised; branched; 2 breaks	40-60
		5	Rosa arvensis	1+0; Seedling; Provenance UK	40-60
			1	Area 403	
_					

Plant at 1.5m centres. All species group planted at 5-30No. per group.

Rosa canina

Sambucus nigra

Age/form

1+1; Transplant - seed raised; 40-60

Provenance UK Area 304

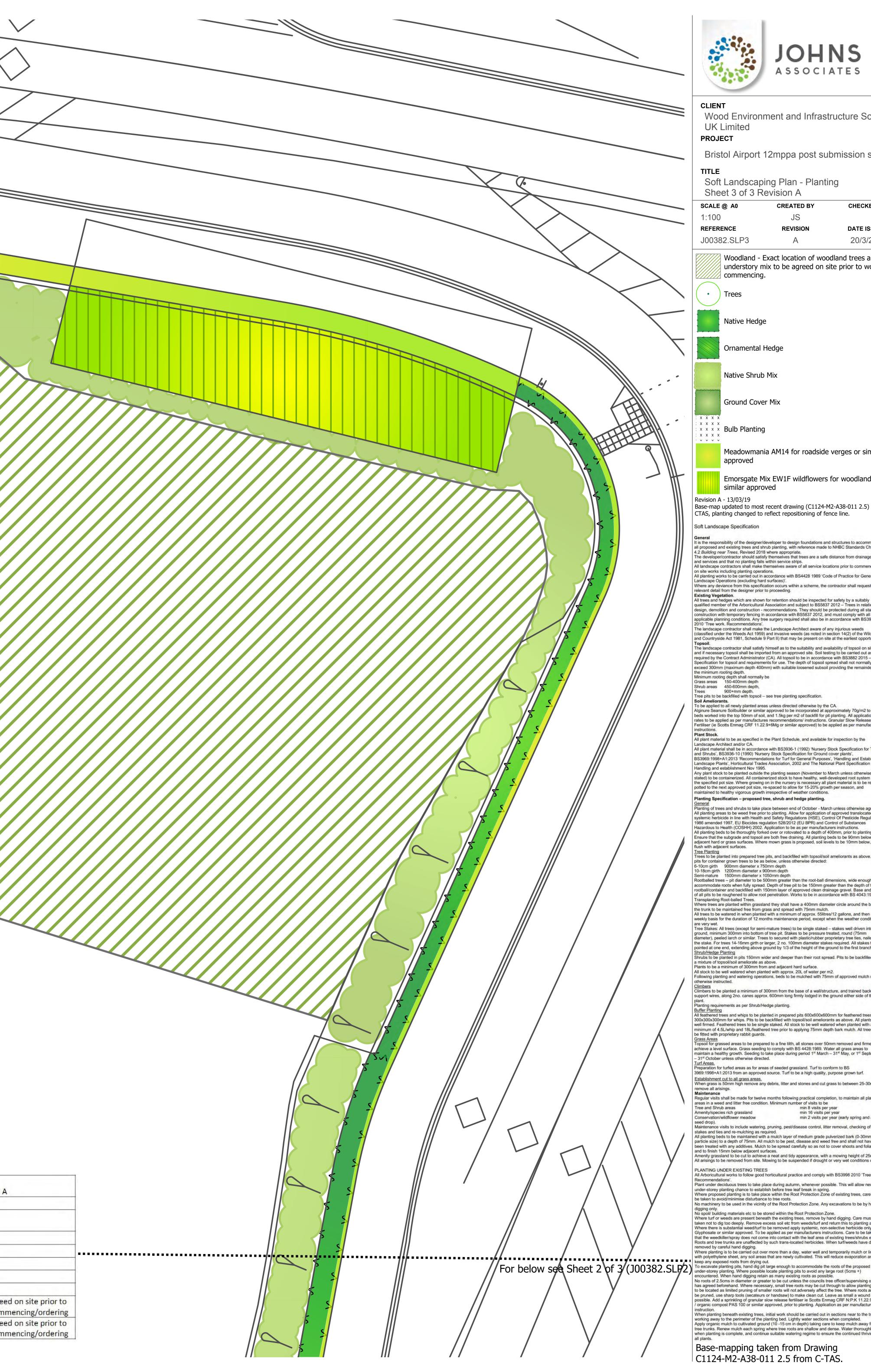
1+0; Seedling; branched; 2

Height (cms) Ro

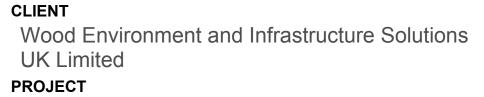
40-60

WOODLAND UNDERSTOREY/NATIVE SHRUB MIX

15







Bristol Airport 12mppa post submission support TITLE

Soft Landscaping Plan - Planting Sheet 3 of 3 Revision A				
SCALE @ A0		CREATED BY	CHECKED BY	
1:100		JS	AP	
REFER	ENCE	REVISION	DATE ISSUED	
J0038	32.SLP3	А	20/3/2019	
			oodland trees and a site prior to works	
$(\cdot)$	Trees			
	Native Hedge			
	Ornamental Hedg	je		
	Native Shrub Mix			
	Ground Cover Mi	x		
	Bulb Planting			
	Meadowmania Al approved	M14 for roadsid	de verges or similar	
	similar approved	W1F wildflowe	rs for woodland or	
Revision A - 13/03/19				

Revision A - 13/03/19 Base-map updated to most recent drawing (C1124-M2-A38-011 2.5) from CTAS, planting changed to reflect repositioning of fence line.

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Grass areas 150-400mm depth Shrub areas 450-600mm depth, Trees 900+mm depth. Tree pits to be backfilled with topsoil – see tree planting specification.

Soil Ameliorants. To be applied to all newly planted areas unless directed otherwise by the CA. Alginure Seanure Soilbuilder or similar approved to be incorporated at approximately 70g/m2 to shrub beds worked into the top 50mm of soil, and 1.5kg per m2 of backfill for pit planting. All application rates to be applied as per manufactures recommendations/ instructions. Granular Slow Release Fertiliser (ie Scotts Enmag CRF 11.22.9+6Mg or similar approved) to be applied as per manufacturers Plant Stock.

All plant material to be as specified in the Plant Schedule, and available for inspection by the Landscape Architect and/or CA. All plant material shall be in accordance with BS3936-1 (1992) Nursery Stock Specification for Trees and Shrubs', BS3936-10 (1990) 'Nursery Stock Specification for Ground cover plants', BS3969:1998+A1:2013 'Recommendations for Turf for General Purposes', 'Handling and Establishing Landscape Plants', Horticultural Trades Association, 2002 and The National Plant Specification -Handling and establishment Nov 1995. Any plant stock to be planted outside the planting season (November to March unless otherwise stated) to be containerized. All containerized stock to have healthy, well-developed root system within the specified pot size. Where growing on in the nursery is necessary all plant material is to be re-potted to the next approved pot size, re-spaced to allow for 15-20% growth per season, and maintained to healthy vigorous growth irrespective of weather conditions. Planting Specification - proposed tree, shrub and hedge planting.

General Planting of trees and shrubs to take place between end of October - March unless otherwise agreed. All planting areas to be weed free prior to planting. Allow for application of approved translocated systemic herbicide in line with Health and Safety Regulations (HSE), Control Of Pesticide Regulations 1986 amended 1997, EU Biocides regulation 528/2012 (EU BPR) and Control of Substances Hazardous to Health (COSHH) 2002. Application to be as per manufacturers instructions. All planting beds to be thoroughly forked over or rotovated to a depth of 400mm, prior to planting. Ensure that the subgrade and topsoil are both free draining. All planting beds to be 90mm below adjacent hard or grass surfaces. Where mown grass is proposed, soil levels to be 10mm below, of flush with adjacent surfaces. Tree Planting Trees to be planted into prepared tree pits, and backfilled with topsoil/soil ameliorants as above. Tree

pits for container grown trees to be as below, unless otherwise directed: 6-10cm girth 10-18cm girth Semi-mature 900mm diameter x 750mm depth 1200mm diameter x 900mm depth 1500mm diameter x 1050mm depth Rootballed trees - pit diameter to be 500mm greater than the root-ball dimensions, wide enough to

accommodate roots when fully spread. Depth of tree pit to be 150mm greater than the depth of the rootball/container and backfilled with 150mm layer of approved clean drainage gravel. Base and sides of all pits to be roughened to allow root penetration. Works to be in accordance with BS 4043:1989 Transplanting Root-balled Trees. Where trees are planted within grassland they shall have a 400mm diameter circle around the base of the trunk to be maintained free from grass and spread with 75mm mulch. All trees to be watered in when planted with a minimum of approx. 55litres/12 gallons, and then on a weekly basis for the duration of 12 months maintenance period, except when the weather conditions are very wet. Tree Stakes: All trees (except for semi-mature trees) to be single staked - stakes well driven into the ground, minimum 300mm into bottom of tree pit. Stakes to be pressure treated, round (75mm diameter), peeled larch or similar. Trees to secured with plastic/rubber proprietary tree ties, nailed to the stake. For trees 14-16mm girth or larger, 2 no. 100mm diameter stakes required. All stakes to be pointed at one end, extending above ground by 1/3 of the height of the ground to the first branch. Shrub/Hedge Planting Shrubs to be planted in pits 150mm wider and deeper than their root spread. Pits to be backfilled with a mixture of topsoil/soil ameliorate as above. Plants to be a minimum of 300mm from and adjacent hard surface. All stock to be well watered when planted with approx. 20L of water per m2. Following planting and watering operations, beds to be mulched with 75mm of approved mulch unless

otherwise instructed. Climbers to be planted a minimum of 300mm from the base of a wall/structure, and trained back to support wires, along 2no. canes approx. 600mm long firmly lodged in the ground either side of the

Planting requirements as per Shrub/Hedge planting. Buffer Planting All feathered trees and whips to be planted in prepared pits 600x600x600mm for feathered trees, and 300x300x300mm for whips. Pits to be backfilled with topsoil/soil ameliorants as above. All plants to be well firmed. Feathered trees to be single staked. All stock to be well watered when planted with a minimum of 4.5L/whip and 18L/feathered tree prior to applying 75mm depth bark mulch. All trees to be fitted with proprietary rabbit guards. Topsoil for grassed areas to be prepared to a fine tilth, all stones over 50mm removed and firmed to

achieve a level surface. Grass seeding to comply with BS 4428:1989. Water all grass areas to maintain a healthy growth. Seeding to take place during period 1st March - 31st May, or 1st September – 31<sup>st</sup> October unless otherwise directed. <u>Turf Areas.</u> Preparation for turfed areas as for areas of seeded grassland. Turf to conform to BS 3969:1998+A1:2013 from an approved source. Turf to be a high quality, purpose grown turf.

Establishment cut to all grass areas. When grass is 50mm high remove any debris, litter and stones and cut grass to between 25-30mm. remove all arisings.

Maintenance Regular visits shall be made for twelve months following practical completion, to maintain all planted areas in a weed and litter free condition. Minimum number of visits to be Tree and Shrub areas min 8 visits per year Amenity/species rich grassland min 16 visits per year Conservation/wildflower meadow min 2 visits per year (early spring and after seed drop). Maintenance visits to include watering, pruning, pest/disease control, litter removal, checking of tree

stakes and ties and re-mulching as required. All planting beds to be maintained with a mulch layer of medium grade pulverized bark (0-30mm particle size) to a depth of 75mm. All mulch to be pest, disease and weed free and shall not have been treated with any additives. Mulch to be spread carefully so as not to cover shoots and foliage and to finish 15mm below adjacent surfaces. Amenity grassland to be cut to achieve a neat and tidy appearance, with a mowing height of 25mm. All arisings to be removed from site. Mowing to be suspended if drought or very wet conditions occur. PLANTING UNDER EXISTING TREES

All Arboricultural works to follow good horticultural practice and comply with BS3998 2010 'Tree work. Recommendations'. Plant under deciduous trees to take place during autumn, whenever possible. This will allow new under-storey planting chance to establish before tree leaf break in spring. Where proposed planting is to take place within the Root Protection Zone of existing trees, care must be taken to avoid/minimise disturbance to tree roots. No machinery to be used in the vicinity of the Root Protection Zone. Any excavations to be by hand digging only. No spoil/ building materials etc to be stored within the Root Protection Zone.

Where turf or weeds are present beneath the existing trees, remove by hand digging. Care must be taken not to dig too deeply. Remove excess soil etc from weeds/turf and return this to planting area. Where there is substantial weed/turf to be removed apply systemic, non-selective herbicide only – Glyphosate or similar approved. To be applied as per manufacturers instructions. Care to be taken that the weedkiller/spray does not come into contact with the leaf area of existing trees/shrubs etc. Roots and tree trunks are unaffected by such trans-located herbicides. When turf/weeds have died, removed by careful hand digging. Where planting is to be carried out over more than a day, water well and temporarily mulch or line with polyethylene sheet, any soil areas that are newly cultivated. This will reduce evaporation and

encountered. When hand digging retain as many existing roots as possible. No roots of 2.5cms in diameter or greater to be cut unless the councils tree officer/supervising officer has agreed beforehand. Where necessary, small tree roots may be cut through to allow planting pits to be located as limited pruning of smaller roots will not adversely affect the tree. Where roots are to be pruned, use sharp tools (secateurs or handsaw) to make clean cut. Leave as small a wound as possible. Add a sprinkling of granular slow release fertiliser ie Scotts Enmag CRF N:P:K 11.22.9+6Mg / organic compost PAS 100 or similar approved, prior to planting. Application as per manufacturers' When planting beneath existing trees, initial work should be carried out in sections near to the tree, working away to the perimeter of the planting bed. Lightly water sections when completed. Apply organic mulch to cultivated ground (10 -15 cm in depth) taking care to keep mulch away from tree trunks. Renew mulch each spring where tree roots are shallow and dense. Water thoroughly when planting is complete, and continue suitable watering regime to ensure the continued thriving of all plants.

# Base-mapping taken from Drawing C1124-M2-A38-011 2.5 from C-TAS.