IMPLEMENTATION AND MAINTENANCE GUIDELINES

1.0 GENERAL

All plants shall conform to BS 3936 and be in accordance with the National Plant Specification. Supplying nurseries shall be registered under the HTA Nursery Certification Scheme. All plants shall be packed and transported in accordance with the Code of Practice for Plant Handling as produced by CPSE. Planting shall not be carried out when the ground is waterlogged, frostbound or during periods of cold drying winds. All bare root stock shall be root dipped in an approved water-retaining polymer

If the formation level is compacted it should be ripped through before topsoiling. Topsoil depths to be 450mm for shrub beds and 150mm for grass areas.

2.0 ORNAMENTAL SHRUBS AND TREES

2.1 Ground Preparation

Where necessary treat existing weeds with a glyphosate based herbicide and allow a suitable period as recommended by the manufacturer for this to take effect. A general purpose slow release fertiliser at the rate of 75gm/m2 and Tree Planting and Mulching Compost at the rate of 20litres/m2 are to be incorporated into the top 150mm of topsoil during final cultivations. All extraneous matter such as plastic, wood, metal and stones greater than 50mm in any dimension shall be removed from site.

Tree pits are to be excavated and the base broken up a further 150mm with the sides well scarified to prevent smearing. All trees up to and including selected standards are to be supported with single 75mm diameter stakes. All rootball, container grown and trees over heavy standard size shall be double staked. Any feature trees semi mature in size to be secured with a below ground anchoring system (such as a deadman anchor) Stakes should be driven 500mm into undisturbed ground before planting the tree, taking care to avoid underground services and cables etc.

2.2 Planting

Shrubs and hedges are to be set out as shown on the drawing and pit planted into the prepared soil at the specified centres with minimal disturbance to the rootball and well firmed in Trees are to be placed into the pits and backfilled with topsoil incorporating slow release fertilizer and Tree Planting and Mulching Compost as specified. Firm trees in well and secure with proprietary rubber tree ties

and spacers.

Water in all trees and shrubs at the end of each day of planting. Spread ornamental pine bark mulch to a depth of 75mm across all new planting areas, ensuring groundcover

2.3 Maintenance

plants are not buried

The landscape contractor shall maintain all areas of new planting for a period of 12 months following practical completion. All stock deemed to be dead, dying or diseased within the defects period shall be replaced by the contractor at his own cost.

The site is to be visited monthly throughout the year to undertake the following operations.

Weed clearance: All planting areas are to be kept weed free by hand weeding or herbicide treatment. tter clearance: All litter is to be removed from planting beds Natering: Planting areas are to be brought up to field capacity at each visit and each tree is to receive 20

Checking trees: All tree ties and stakes are to be checked and adjusted if too loose, too tight or if chaffing is occurring. Any broken stakes are to be replaced. Formative pruning: Any damaged shoots/branches are to be pruned back to healthy wood. Plants are to be ned in accordance with good horticultural practice to maintain healthy well-shaped specimens

3.0 NATIVE SHRUB PLANTING

3.1. Ground Preparation The extent of the planting area shall be set out using 38x38x1200mm timber stakes at each change in direction and at a maximum of 50m intervals

Either : for notch planting

All herbaceous material within the proposed planting area shall be sprayed out using an approved herbicide at least two weeks before planting and the ground shall be cultivated to a depth of 150mm or : for pit planting

A 900mm diameter circle shall be sprayed out at each planting station using an herbicide at least two weeks before planting.

3.2 Planting All bare rooted stock is to be root dipped in water retaining polymer. Proposed planting is to be planted on an informal grid. To avoid straight lines each planting station can be moved by up to 300mm in any direction Either a for shelters or b for rabbit fence

a. All stock to be protected from rabbit damage using approved proprietory tree and shrub shelters, 900mm and 600mm high respectively, secured with stakes and ties as advised by the manufacturer. b. All stock to be protected from rabbit damage by 900mm high rabbit fencing erected in accordance with the manufacturers recommendations.

3.3 Maintenance

- Using approved herbicides a 900mm diameter circle centered on each planting station shall be kept weed free throughout the maintenance period Each Autumn after planting and until handover to the adopting authority, the contractor will prepare a list of all plants which are dead, dying or diseased and will replace these during the following planting season
- 4.0 NATIVE HEDGE PLANTING

4.1 Setting Out

The hedge line shall be set out using 38x38x1200 stakes at maximum 50m intervals and all herbaceous material within 400mm of the centre line shall be sprayed out using an approved herbicide at least two weeks before planting

4.2 Preparatio

- The 800mm wide hedge line shall be cultivated to 150mm incorporating Enmag or equal at 75gm/m2.
- 4.3 Planting Plants shall be notch planted in three rows (unless specified) 300mm apart and staggered at 400mm entres All plants are to b h a 600mm proprietary shelter secured with a stake/cane and ties as recommended by the manufacturer

4.4 Maintenance

Using approved herbicides a 800mm wide swathe centred on the hedgeline shall be kept weed free throughout the maintenance period.

Each Autumn after planting and until handover to the adopting authority, the contractor will prepare a list of all plants which are dead, dying or diseased and will replace these plants during the following planting season. 5.0 GRASS

5.1 Preparation

The area to be seeded shall be sprayed out with a glyphosate herbicide and cultivated to a depth of 100mm removing all weeds, debris and stones over 25mm diameter. The surface shall be raked to smooth flowing contours with a fine tilth, incorporating pre-seeding fertiliser at 70 g/m2.

Turfing operations shall be in accordance with BS 4428.

Whole turves shall be laid around the perimeter of the area to be turfed. The central area shall be laid in rows with staggered joints, well butted together, working from planks positioned on turves already laid. The turf shall be watered on completion. Any unevenness shall be made good by lifting the turf and adjusting the levels. Should shrinkage occur, fine topsoil shall be brushed into the joints.

5.3 Seeding

Grass seed shall be sown in April during calm weather and not when the ground is frost bound or waterlogged. Seed shall be sown in two equal sowings in transverse directions at 35 g/m2. After sowing the contractor shall lightly rake the seed into intimate contact with the soil. All seed mixes to be specified in accordance with those set out in the approved management plan.

5.4 Initial cut When newly seeded areas reach 50mm they should be cut back to a height of 30mm and then cut twice annually in early Spring and late Summer. All arisings shall be removed or spread evenly across grassland. Any bare patches shall be made good at this time.

6.0 TOPSOIL

6.1 Existing Topsoil Pre-planting herbicide application:

Apply by suitable spraying apparatus, an approved translocated systemic herbicide to the manufacturer's instructions and to 1997 Control of Pesticides Regulations and 2003 COSHH regulations on all beds, except those which are both weed free and are to receive agrotextile sheet mulch. Spray immediately if any weeds are present. If none are showing, but there may be a delay before planting, or the area is to be seeded, spray after one month following cultivation, to allow dormant seed to terminate. All spraying shall be carried out by skilled and qualified operatives, using protective clothing, in suitable weather (no wind) and any damage caused by spray drift, from incorrect usage or spillage, shall be rectified at the contractor's own cost. Repeat as necessary to ensure complete kill and rake off all dead material from site

Carry out the following works to the existing topsoil on site to ensure it Conforms to BS 3882:1994, being free from rocks larger than 50m diameter, concrete, all roots, wire, brick, and have less than 20% clay. Allow for pre-application of herbicide as above. Fertilise with 100g per meter square of Vitax "Nutricote 180" slow release fertilizer, in accordance with the manufacturer's instructions. For beds less than 5 meters in width, fork over thoroughly or machine rotovate soil to a depth of 300mm, ensuring that the subgrade and topsoil are completely broken up and free draining, relieving any compaction. For beds greater than 5 metres in width, break up the subgrade and topsoil using a tractor mounted subsoiler or ripper at 500mm centres to a depth of 500mm, except where there are services, or within 10 meters of tree stems or 3 meters of existing hedges. Do not rip areas where roots greater than 10mm diameter are encountered.

6.2 Imported Topsoil Any imported topsoil for making up ground, shall conform to BS:3882:1994, and be free from rocks lover 50mm diameter), concrete, roots, wire and brick, and have less 20% clay,

NOTES

- All landscape proposals must be referred to by the Structural Engineer during foundation design.
- Soiling operations to be carried out in accordance with the implementation and maintenance guidelines All planting to be in accordance with the implementation and maintenance guidelines.
- No species, variety, size or position to be amended without the Landscape Architects prior approval.
- Before trees are planted, the Landscape Contractor shall ascertain the location of drains from the site manager, and shall if necessary make minor adjustments to tree positions to ensure that they are planted at least 1.5m from drains. They should however be planted no closer to houses/garages than is shown on the drawing, and if shown located in shrub beds, the shape of the latter should be adjusted if necessary to accommodate the revised tree nosition
- All planting must be mulched in accordance with the implementation and maintenance guidelines. • If planting is required outside the October-March season, bare root shrubs will be replaced by 3L pot grown plants, and trees will be replaced by a containerised equivalent to be approved by the project landscape architect.



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KEY

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Earth mounding - Max 1 in 3 gradient

slopes. Contours smoothed into ex

Max height = 55m contour.

3.00m high acoustic fence

approved

Existing trees and vegetation to be retained Root protection area shown as circular dashed line.

Existing trees & hedgerow to be removed

Bench seating

Ref: BX17 40001T 'Roslin Bench' steel framed timber slat version, as supplied by Broxap or similar approved. Bench to be installed with submerged fixing set in concrete footings to manufacturers specification.

Picnic bench with loose bark mulch

Ref: BX29 2136 'Saltwell' steel framed timber slat picnic bench, as supplied by Broxap or similar approved. Bench to be installed with submerged fixing set in concrete footings to manufacturers specification.

Low timber bollards

BX17 1000 150 timber bollard 450mm high (above ground level) with chamfered top painted white. Drop bollards indicated with (D) on plan. Supplied by Broxap or similar approved. Installed to manufacturers specification.

Litter bin

D

Ref: BX45 2596-E-90 'Derby Slimline' 90L perforated litter bin, coated in black as supplied by Broxap or similar approved.

Dog waste bin

Ref: BX45 2591-PM 'Sirius' 60L perforated litter bin, coated in black as supplied by Broxap or similar approved.





Sheet Location Plan Not to scale

		\odot	PO REF P1
	Tarmacadam surfaced footpath		P2 P3
A STATE OF STATE OF STATE	Tarmacadam surface to footpaths and cycleways, pcc edging.		P4 P5
	Rolled gravel/hoggin footpath surfacing		P6
	50mm rolled hoggin surface on 100mm type 1 sub base. To be timber edged.		P7 P8
	Feature block paving		P9 P10
	Tobermore 'Roma block paving, colour: Edged with tegula block paving 200x100mm double stretcher course , colour: charcoal or similar approved.		P11 P12
	Informal mown footpath route		P13 P14
	2.00m wide mown footpath route.		P15 P16
	Viewpoint mounds		P17
VP	Low mounding creating glimpsed views out to the wider countryside. Topsoil shall be spread		OR REF
	evenly over the formation levels in layers not exceeding 150mm to a depth of 150mm for grass. All slopes shall be graded with a rigid blade grader and consolidated to proposed		OT1
	levels. The gradient of the slopes shall be smooth-flowing and marrying with all existing levels. Levels as shown.		0T2 0T3
	Ground contouring		All t tree
	Low mounding to channel views towards church spires. Topsoil shall be spread evenly over		duri
	the formation levels in layers not exceeding 150mm to a depth of 150mm for grass. All slopes shall be graded with a rigid blade grader and consolidated to proposed levels. The gradient of		
	the slopes shall be smooth-flowing and marrying with all existing levels. Levels as shown.		HE ABI
1 111111	Direction of proposed slope		ELA
			VIB

PLA	NIT	CC	LE		
FLA		36		JU	

٦		TREES				
	REF	SPECIES		SUPPLY	SIZE(cm)	GIR
	P1	Betula utilis jacqumontii		EHStd	450/625	16/1
	P2	Carpinus betulus 'Frans Fonta	aine'	EHStd	450/625	16/1
	P3	Liquidambar styraciflua		EHStd	450/625	16/1
	P4	Liriodendron tulipifera		EHStd	450/625	16/1
	P5	Quercus robur		EHStd	450/625	16/1
	P6	Betula pendula 'Fastigiata'		EHStd	450/625	16/1
	P7	Carpinus betulus		HStd	350/425	12/1
	P8	Alnus glutinosa		HStd	350/425	12/1
	P9	Betula pendula		HStd	350/425	12/1
	P10	Betula pubescens		HStd	350/425	12/1
	P11	Castanea sativa		HStd	350/425	12/1
	P12	Pinus sylvestris		HStd	350/425	12/1
	P13	Prunus avium		HStd	350/425	12/1
	P14	Quercus ilex		HStd	350/425	12/1
	P15	Quercus robur		HStd	350/425	12/1
	P16	Sorbus aucuparia		HStd	350/425	12/1
	P17	Tilia cordata		HStd	350/425	12/1
	ORC	HARD TREES				
A PAR	REF	SPECIES	ROOT STOCK	K F	LOWER PE	RIO
	OT1	Malus 'Adams Pearmain'	M26	2		
	OT2	Malus 'Brownlees Russet'	M26	3		
	0Т3	Malus 'Pitmaston Pineapple'	M26	2		
		es to be planted in accordance				
		anting schedule and landscap				
		foundation design. No tree sp		ocation sho	ould be alter	ed w
	approv	val from the Landscape Archite	ect.			
	HED	GEROWS				
		CDEOLEC				11.4

SIZE(cm) HABIT BBR SPECIES CTRS(m) ELAEB Elaeagnus x ebbingei 10L 60/80 Bushy 0.50 VIBTIEVP Viburnum tinus 'Eve Price' 40/60 0.50 5L Bushy All hedgerow shrubs to be planted in accordance with the implementation and maintenance

guidelines. The landscape proposals must be referred to by the Structural Engineer during foundation design. No hedgerow shrub species, size or location should be altered without prior approval from the Landscape Architect. Hedgerow shrubs to be planted in a single row within a 50cm wide bed and mulched in accordance with implementation and maintenance guidelines.

NATIVE BUFFER MIX 1 ABB

ABBR	SPECIES	MIX(%)	SUPPLY	SIZE(cm)	BREAKS	CTRS(m)
ACECAM	Acer campestre	10	T 1+1	60/80	3	1.50
CORSA	Cornus sanguinea	5	T 1+1	60/80	3	1.50
CORAV	Corylus avellana	10	T 1+1	60/80	3	1.50
CRAMON	Crataegus monogyna	25	T 1+1	60/80	3	1.50
ILEAQ	Ilex aquifolium	15	2L	60/80	3	1.50
MALSY	Malus sylvestris	5	T 1+1	60/80	3	1.50
LIGVU	Ligustrum vulgare	15	T 1+1	60/80	3	1.50
PRUSP	Prunus spinosa	10	T 1+1	60/80	3	1.50
VIBOP	Viburnum opulus	5	T 1+1	60/80	3	1.50

All shrubs to be planted in accordance with the implementation and maintenance guidelines. The landscape proposals must be referred to by the Structural Engineer during foundation design. No shrub species, size or location should be altered without prior approval from the Landscape Architect. Individual species to be planted in groups of 5-9.

NATIVE MIX HEDGEROW - to site entrance

ABBR	SPECIES	MIX(%)	SUPPLY	SIZE(cm)	CTRS(m)
ACECAM	Acer campestre	5	T 1+1	60/80	0.40
CORSA	Cornus sanguinea	5	T 1+1	60/80	0.40
CORAV	Corylus avellana	5	T 1u1	60/80	0.40
CRAMON	Crataegus monogyna	70	2 x fthd	125/150	0.40
ILEAQ	Ilex aquifolium	10	2L	60/80	0.40
PRUSP	Prunus spinosa	10	T 1+1	60/80	0.40

Hedgerow shrubs to be supplied as bareroot stock unless stated and to be planted in accordance with the implementation and maintenance guidelines. The landscape proposals must be referred to by the Structural Engineer during foundation design. No hedgerow shrub species, size or location should be altered without prior approval from the Landscape Architect. Hedgerow shrubs to be planted on a double staggered row, 400mm apart with no less than 6 per linear metre within a 50cm wide bed and mulched in accordance with implementation and maintenance guidelines. The feathered Hawthorn is to have a upright central stem furnished with evenly spread and balanced lateral growth the full length of the stem. Shrubs to be attached to a double line support (one for feathered hawthorn at 1m high and one for transplant stock at 60cm high) fence using an approved clip tie and cut back to 1.2m in height at time of planting.

NATIVE MIX HEDGEROW - to southern boundary & infill where require							
ABBR	SPECIES	MIX(%)	SUPPLY	SIZE(cm)	CTRS(m)		
ACECAM	Acer campestre	5	T 1+1	60/80	0.40		
CORAV	Corylus avellana	5	T 1u1	60/80	0.40		
CRAMON	Crataegus monogyna	45	T 1+1	60/80	0.40		
ILEAQ	Ilex aquifolium	25	2L	60/80	0.40		
LIGVU	Ligustrum vulgare	15	T 1+1	60/80	0.40		
PRUSP	Prunus spinosa	5	T 1+1	60/80	0.40		

Hedgerow shrubs to be supplied as bareroot stock unless stated and to be planted in accordance with the implementation and maintenance guidelines. The landscape proposals must be referred to by the Structural Engineer during foundation design. No hedgerow shrub species, size or location should be altered without prior approval from the Landscape Architect. Hedgerow shrubs to be planted on a triple staggered row, 300mm apart. Shrubs to be attached to a single line support fence using an approved clip tie.

	AMENITY	SHRUB MIX 1 - to rear gar	den bou	Indaries		
	ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)
	AUCJA	Aucuba japonica	5L	40/60	Bushy	0.70
	CORALE	Cornus alba 'Elegantissima'	3L	40/60	Bushy	0.70
	ELAPUMA	Elaeagnus pungens 'Maculata'	5L	40/60	Bushy	0.70
	FATJA	Fatsia japonica	5L	40/60	Bushy	0.70
	PHOFRRER	Photinia fraseri 'Red Robin'	5L	40/60	Bushy	0.70
	PRULU	Prunus lusitanica	5L	40/60	Bushy	0.70
1	AMENITY	SHRUBS				



ABBR

HEBPAGA

SPECIES

Hebe pinguifolia 'Page'



SEMI ODNAMENTAL MIX - to attonuation areas

SEMI ORNAMENTAL MIX - to attenuation areas						
ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)	
CORSA	Cornus sanguinea	3L	60/80	Bushy	0.70	
CORSTF	Cornus stolonifera 'Flaviramea'	3L	40/60	Bushy	0.70	
SALCHEA	Salix alba 'Britzensis'	3L	40/60	Bushy	0.70	
SALALVI	Salix alba vitellina	3L	40/60	Bushy	0.70	

SIZE(cm) HABIT

Bushy

20/30

CTRS(m)

0.60

All shrubs to be planted in accordance with the implementation and maintenance guidelines. No shrub species, size or location should be altered without prior approval from the Landscape Architect. Individual species to be planted in groups of 3-7. Lower growing species to be planted at the front of the shrub bed. Low growing species marked with * above.

General amenity grassland - to POS areas

All round general amenity seed mix - A4 Amenity low maintenance, Germinal Seeds Amenity or similar

General meadow grassland General purpose meadow mix - EM1 Emorsgate Seeds or similar approved.

Wetland meadow grassland

Meadow mix for wetland - EM8 Emorsgate Seeds or similar approved.

Grass seed mixtures to be sourced from certified local provenance seed stock. Ground surface will be cleared of weed growth either removed by hand or through the application of an approved Glyphosate based herbicide (all herbicides should only be handled by certified users and in accordance with the COSHH Regulations 2002). The ground will them be ploughed and raked to produce a medium tilth. Sowing operation will be carried out in Spring or late Autumn at a rate indicated. The grass will be allowed to establish over the first growing season with a single mowing operation in the Autumn to top out any weed growth. On-going mowing operations will be carried out either once annually in the Spring, or twice annually in Spring and Autumn if grass species become dominant. Grass will not be cut during late Spring and Summer months to allow flower and herb species time to germinate.

BULBS	
SPECIES	No./m²
Crocus Dutch Collection (50% of area)	
'Queen of the Blues'	10
'Golden Yellow'	10
'Jeanne D' Arc'	10
Dwarf Daffodils (50% of area)	
'February Gold'	10
'Jet Fire'	10
'Canaliculatus'	10

All bulbs to be planted in accordance with the implementation and maintenance guidelines. No bulb species or location should be altered without prior approval from the Landscape Architect. Crocus and Daffodil bulbs to alternate every 2 linear metres.

> Land to the South of Leadon Way, Ledbury

J- (13/09/2018 AP) Replan area included. H- [12/07/2018 WM/AP] Removed landscape proposals to the west. G- (10/04/2018 AL) Updated tree specificatio

E- (21/11/2017 AP/LB) POS updated to

updated levels and tree species revised. D- (22/05/2017 AP) Updated to latest layout. C- (21/04/2017 AP) Updated to latest layout. B- (20/04/2017 AP) Updated to latest layout. A- (20/12/2016 AP) Updated to latest layout. Drawn by : AP Revisions:

First Issue- 14/12/2016 AP

Public Open Space Detailed Landscape Proposals (Sheet 1 of 4)

F- [19/12/2017 AP] Updated to latest layout. Drawing Ref: P16-0793 04-J

Client: Barratt Homes West Midlands

: 14/12/2016 Date 1:500 @ A1

Pegasus

42 No.HEBPA 122 275 -91 No.HEB

60 No.HEB

RTH(cm)CTRS(m) as showr as shown as shown as showr as shown as shown as shown 114 /14 as shown as shown 114 114 as shown 114 as shown as shown 114 as shown 114 as shown 114 114 as showr as shown 114 /14 as shown

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