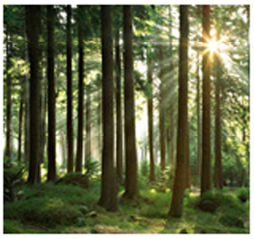
BRITISH STANDARD 5837 TREE SURVEYS ARBORICULTURAL IMPLICATION STUDIES TPO/PLANNIG ADVICE/ PROJECT MANAGEMENT
TREE INVENTORIES AND RISK ASSESSMENTS WOODLAND MANAGEMENT PLANS TREE PLANTING SCHEMES TPO RE-SURVEY






ARBORICULTURAL IMPLICATIONS ASSESSMENT

PROPOSED DEVELOPMENT

AT

LAND BETWEEN
BEVINGTON BUSH, GARDENERS ROW
AND EDGAR STREET
LIVERPOOL

Author: C. Salisbury
Date: 5 August 2015
Ref: TRE/BBGRES

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1.0 Introduction

1.1 Mulberry Tree Management were instructed by Mr Shah, to carry out an arboricultural survey of trees at his site in Bevington Bush, Liverpool.

1.2 This report details the arboricultural implications of developing the site, including:

- a survey of the trees on and near the development which may impact the proposal- from ground level, noting their location, species and all relevant parameters, i.e. stem diameter, height, crown spread, condition etc;
- providing advice on the removal, retention and management of trees;
- assessment of the potential effects of the proposal on retained trees and vice versa;
- assessment of the requirement for tree protection for the duration of the works;
- mitigation for any loss;
- preparation of a tree schedule;
- and report on the above matters.

1.3 The survey was carried out on 1 August 2015 by means of inspection from ground level by an experienced and qualified arboriculturalist. The inspection can be restricted in cases where trees were Ivy clad or surrounded by vegetation.

1.4 Under *BS5837: 2012 Trees in Relation to Construction - Recommendations*, the assessment of trees is made objectively. The tree categorisation method identifies the quality and value of the existing tree stock, allowing informed decisions to be made concerning development design layout.

1.5 The following documents have been made available by the client:

- Drawing- 13C044_2D.dwg
- Drawing- PL1488.GA.001-General Arrangement.pdf

1.6 The supplied drawing included some tree positions plotted. Any dimensions regarding tree positions and protective fencing must be checked on site.

1.7 Weather conditions during the survey were dry and still.

1.8 The survey was carried out noting the conditions of the trees at the time of inspection. As trees are part of the natural environment, conditions can naturally change; therefore the contents of this report are valid for one year only. After this period, re-inspection may be necessary.

2.0 Survey Methodology

2.1 The trees were surveyed (prefixed T, or G for group) and recorded in the tree schedule in appendix one. Where groups are recorded, average height and diameter at breast height (DBH) of the trees in the group are reported. Where access to the base of any trees was limited, stem size was estimated.

2.2 All the trees were assessed using: a grading A to C (retention) and U (removal); condition and age class as defined in appendix two.

2.3 Where appropriate, canopy spread for each tree was recorded at four cardinal points in order to reproduce an accurate representation of the crown shape of the tree on the tree plan in appendix three.

2.4 The survey included all trees within the proposal area and trees near to the proposal.

3.0 Development Proposals

3.1 Due to the proposed development and its associated infrastructure there are a number of locations where the proposals are in close proximity to the trees surveyed. The Site Layout Plan within appendix three identifies the trees in relation to the proposed development.

3.2 In order to fully assess the impact of the proposals an Impact Table has been created detailing each tree, which shows the proximity of the associated works to the tree.

3.3 This can then be assessed in accordance with BS 5837:2012 to determine whether the development will have a detrimental impact on the health of each tree. Once this has been determined remedial measures can be detailed to reduce the impact the proposals will have on the treescape.

3.4 Impact Table:-

Tree No.	Root Protection Area identified in Table 2 of BS 5837:2012	Distance to Proposed Hard Standing (m)	Distance to Proposed Development (m)	Can the Tree/s be Successfully Retained
T1	Fell Due to Condition			
T2	Fell Due to Development			
T3	$24m^2$ = Circle with a radius of 2.76m	17.30	26.10	Yes
T4	$9m^2$ = Circle with a radius of 1.68m	10.80	21.70	Yes
G1	Fell Due to Development			
G2	Fell Due to Development			
G3	Fell Due to Development			
G4	Fell Due to Development			
G5	Fell Due to Development			
G6	Fell Due to Development			
G7	Fell Due to Development			
G8	$43m^2$ = Circle with a radius of 3.72m	7.30	22.10	Yes

4.0 Impact Assessment

4.1 To assess the implications of the Impact Table each tree can be categorised in the following way: -

	Trees to be retained		Trees to be removed	
	With No Impact	With detailed construction	Due to Condition	Due to Development
Tree No.	T3, T4 & G8	N/A	T1	T2, G1, G2, G3, G4, G5, G6 & G7

5.0 Mitigation Proposals

5.1 Compensatory Planting

5.1.1 Due to the loss of the trees identified in section 3.4 it is proposed that along with the general soft landscaping for the development, further more substantial supplementary tree planting will support the application.

5.1.2 This will have a number of benefits for the development and the character of the area. These being:-

- Give a greater diversity of age class on the site; increasing sustainability.
- Give a greater diversity of species and therefore wildlife habitat.

5.1.3 The proposed landscaping scheme is detailed within Appendix Three of this report.

6.0 Conclusions and Arboricultural Recommendations

6.1 The tree categorisation method identifies the quality and value of the existing tree stock but it is not meant to be interpreted rigidly and is presented in order to form a balanced judgement on tree retention and removal.

6.2 A precautionary method of working near trees is detailed in the accompanying Arboricultural Method Statement.

6.3 Following site development, regular (annual or biannual) inspections of all retained trees should be undertaken by a qualified Arboricultural Consultant.

6.4 It is considered that in following the advice in this document, any negative factors affecting trees on the site will be minimised.

Appendix One

Tree Survey Schedule

TREE SURVEY SCHEDULE

Arboricultural Data Sheet: Bevington Bush, Liverpool											Date of Survey: 01/08/15	Surveyor: J. Barnes
Tree No.	Species	DBH (mm)	Height (m)	Age	Crown Spread (m)				Crown clearance	Condition rating	Comments and preliminary management recommendations	Estimated remaining contribution	Tree quality category rating
					N	**E**	**S**	**W**					
T1	Silver Birch	150	10	EM	3	3	3	3	1.5	3	An individual specimen with poor form situated adjacent to a highway with the tree tie still in place constricting the stem and resulting structural weakness. **Fell.**	0-10	**U**
T2	Sycamore	290 Est.	12	EM	3.5	3.5	3.5	3.5	4.5	2	An individual specimen with reasonable form situated within dense vegetation.	20-40	**C1**
T3	Swedish Whitebeam (off site)	230	8	EM	2.5	2.5	2.5	2.5	2.5	2	An individual specimen with reasonable form situated in a grass verge adjacent to a highway with minor stem damage.	20-40	**C1**
T4	Dawn Redwood (off site)	140	8	SM	1.5	1.5	1.5	1.5	2	2	An individual specimen with reasonable form situated in a grass verge adjacent to a highway with minor stem damage.	40+	**C1**
G1	Crab Apple x1, Myrobalan Plum x1 & Goat Willow x1	260 Avg.	8 Avg.	EM	-	-	-	-	1	2	A mixed species group with poor form situated adjacent to a highway with low branches. **Crown lift to 3m, 5m on highway side.**	10-20	**C2**
G2	Silver Birch x2	310 Avg.	14 Avg.	EM	-	-	-	-	2	2	A single species group with reasonable form situated adjacent to a highway with low branches. **Crown lift to 5m.**	20-40	**C1**
G3	Whitebeam x2	250 Avg.	8 Avg.	EM	-	-	-	-	2	2	A single species group with reasonable form situated adjacent to a highway with low branches. **Crown lift to 5m.**	20-40	**C1**

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					N	**E**	**S**	**W**					
G4	Cockspur Thorn x2 (off site)	120 Avg.	6 Avg.	SM	-	-	-	-	1	2	A single species group with reasonable form situated in a highway with some low branches. **Crown lift to 3m.**	20-40	**C1**
G5	Cherry x3 (off site)	170 Avg.	12 Avg.	EM	-	-	-	-	4	2	A single species group with reasonable form situated in a highway.	20-40	**C1**
G6	Sycamore x5, Willow x2 & Elderberry x2	190 Avg.	14 Avg.	EM	-	-	-	-	0.5	2/3	A mixed species group with poor form situated adjacent to a highway and impacting the boundary fence. **Consider removal.**	10-20	**C2**
G7	Maple x3 & Cypress x4 (off site)	300 Avg.	16 Avg.	M	-	-	-	-	2	1	A mixed species group with reasonable form situated in a grass verge. **Crown lift to 5m and reduce remaining canopy overhang by 2m on site side.**	40+	**B1**
G8	Swedish Whitebeam x3 & Cypress x2	310 Avg.	15 Avg.	M	-	-	-	-	1.5	2	A mixed species group with reasonable form situated in a grass verge adjacent to a highway with low branches over the footpath. **Crown lift to 3m.**	40+	**B1**

Appendix Two

Tree Survey Key

Trees for removal			
Category and definition	Criteria		
Category U Those in such a condition that any existing value would be lost within 10 years and which should, in the current context, be removed for reasons of sound arboricultural management	Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other R category trees (i.e. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline Trees infected with pathogens of significance to the health and/or safety of other trees nearby (e.g. Dutch elm disease), or very low quality trees suppressing adjacent trees of better quality **Note** – Habitat reinstatement may be appropriate (e.g. R category tree used as a bat roost: installation of bat box in nearby tree).		
Trees to be considered for retention			
Category and definition	Criteria - Subcategories		
	1 Arboriculture values	2 Landscape values	3 Conservation values
Category A **Those of high quality and value**: in such a condition as to be able to make a substantial contribution (a minimum 40 years is suggested)	Trees that are particularly good examples of their species, especially if rare or unusual, or essential components of groups, or of formal or semi-formal arboriculture features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands which provide a definite screening or softening effect to the locality in relation to views into or out of the site, or those of particular visual importance (e.g. avenues or other arboricultural features assessed as groups)	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood pasture)
Category B **Those of moderate quality and value**: those in such a condition as to make a significant contribution (a minimum of 20 years is suggested)	Trees that might be included in the high category, but are downgraded because of impaired condition (e.g. presence of remediable defects including unsympathetic past management and minor storm damage)	Trees present in numbers, usually as groups or woodlands, such that they form distinct landscape features, thereby attracting a higher collective rating than they might as individuals but which are not, individually, essential components of formal or semi-formal arboriculture features (e.g. trees of moderate quality within avenue that includes better, A category specimens), or trees situated mainly internally to the site, therefore individually having little impact on the wider locality	Trees with clearly identifiable conservation or other cultural benefits
Category C **Those of low quality and value**: currently in adequate condition to remain until new planting could be established (a minimum of 10 years is suggested), or young trees with a stem diameter below 150 mm	Trees not qualifying in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater landscape value, and/or trees offering low or only temporary screening benefit	Trees with very limited conservation or other cultural benefits
	Note - Whilst C category trees will usually not be retained where they would impose a significant constraint on development, young trees with a stem diameter of less than 150 mm should be considered for relocation		

Age Class

Y	Young	Trees that have not yet established
SM	Semi-Mature	Established trees up to 1/3 of expected height and crown
EM	Early mature	Between 1/3 and 2/3 expected height and crown
M	Mature	Between 2/3 and full expected height and crown
FM	Fully Mature	Full expected height and crown
OM	Over-Mature	Crown beginning to break up and decrease in size
S	Senescent	Crown in advanced stage of break-up

Condition

A	Good
B	Fair
C	Poor
D	Dead

Appendix Three

Plans

N

W E

S

Category A Trees

Category B Trees

Category C Trees

Category U Trees

Root protection area

BLACKSTOCK STREET

PAUL STREET

BEVINGTON BUSH

NICHOLAS STREET

ALDERSEY STREET

GARDINER'S ROW

EDGAR STREET

A59 SCOTLAND ROAD

ROUGH GRASS

GRASS

BEVINGTON HOUSE

ELEC SUB STN

NO ACCESS ELEC SUB STN

TRANSMITTER

T1

T2

T3

T4

G1

G2

G3

G5

G6

G7

G8

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Site Address:
Bevington Bush
Liverpool

Drawing Title:
Tree Survey Plan

Drawing No:
BB/TS/01

Date:	Scale:	Drawn by:
05/08/15	1:500@A2	ST

Root Protection Area

IMPACT ASSESSMENT PLAN	
BEVINGTON BUSH LIVERPOOL	
SCALE: 1:250 @A1	DATE: AUG 2015
DRAWING: BB/AIA/01	

mulberry

NOTE:

1. Do not scale from this drawing. Always work to noted dimensions.
2. All dimensions are in millimetres unless otherwise stated.
3. All setting out, levels and dimensions to be agreed on site.
4. The dimensions of all materials must be checked on site before being laid out.
5. This drawing must be read with the relevant specification clauses and detail drawings.
6. Order of construction and setting out to be agreed on site.

- ADOPTED PATHS-TARMAC
  Subject to approval
- GRANITE
  To Internal Courtyard
  Manufacturer: Hardscape or equal and approved
  Colour: Kobra
  Finish: Flamed
  Dimensions: 300x100x65mm
- GRANITE
  To Internal Courtyard
  Manufacturer: Hardscape or equal and approved
  Colour: Crystal Black
  Finish: Bush hammered
  Dimensions:300x100x65
- POROUS RESIN BOUND GRAVEL
  To internal courtyard
  Manufacturer: Addagrip or equal and approved
  Colour: Rhine Gold
  Size: 10mm
- BESPOKE SEATING ELEMENT
  To Internal courtyard
  To emerge from granite set strips
  timber slats to top
- TIMBER BENCH
  (3 person bench, without arms)
  1830x400x500x320mm
- MOVEABLE FURNITURE
  Tables and chairs to be stored within building when not in use
- CORTEN STEEL RAISED PLANTERS
  Between 400-600mm tall
- CORTEN STEEL RAISED PLANTERS WITH INCORPORATED TIMBER SEATING PLINTH
  Timber to match bespoke seating element
- CLOSE BOARD TIMBER FENCE
  To screen Northern service yard
- CYCLE SHELTER AND HOOPS
  12no. hoops cater for 24no. bikes
- CYCLE HOOPS
  8no. hoops cater for 16no. bikes
- TREE GRILLES
  3no. Corsten tree grilles by Goosefoot Street Furniture or equal and approved
- RETAINED EXISTING TREES
- PROPOSED TREES
  Species as labelled
  Refer to Plant Schedule
- LAWN
- GRASSES PLANTING
  Within Lawn, Refer to Planting schedue and Soilworks GA
- GROUND COVER PLANTING
  Minimum 1m height
  Refer to Planting schedule
- ORNAMENTAL PERENNAL AND EVERGREEN PLANTING
  To internal courtyard
  Seasonal interest throughout
  Refer to planting schedule

Issue	Date	Status	Drawn	Apprvd.
02	22/07/15	Design Amends	SF	DL
01	29/06/15	For Comment	RB	DL

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Client Jamworks

Project Bevington Bush

Drg Title Bevington Bush
General Arrangemnt

Created on	Created by	Approved by
30/04/2015	RB	DL

Scale	Size	Status
1:250	A1	FOR PLANNING

Drg No. PL1488.GA.001

Issue 02

Code	Species	Dims/Height (mm)	Girth / Pot Size	Density	Flower Season	Flower colour	Foliage / Bark interest	Notes	Quantity
	TREE								
Al	Amelanchier lamarckii	–	20-25cm	As Shown	Spring	White / pink	–	Multi-Stem	1
Bp	Betula pendula	–	20-25cm	As Shown	–	–	white bark	2m clear stem	6
Bp	Betula pendula	–	18-20cm	As Shown	–	–	white bark	Multi-Stem	3
Lt	Lirodendron tulipifera	–	20-25cm	as shown	June - July	Lime Green; Orange	–	2m clear stem	3
Mt	Malus tschonoskii	–	20-25cm	As Shown	Spring	Pink/ white	Red / yellow leaves in Autumn	2m clear stem	7
Ps	Prunus serrula	–	20-25cm	As Shown	Spring	white	–	–	6
Ps	Prunus serrula	–	18-20cm	As Shown	Spring	white	–	–	6
Qp	Quercus palustris	–	20-25cm	as shown	Spring	Yellow	Red foliage in Autumn	2m clear stem	3
	HEDGE								
Bs	Buxus sempervirens	120cm	RB	1.5m high cut down to 1.2m	–	–	–	Instant hedge	
Fs	Fagus sylvatica	120cm	RB	1.5m high cut down to 1.2m	–	–	–	Instant hedge	
	RAISED PLANTING BEDS								
ORNAMENTAL PLANTING									
	Agapanthus 'Blue Bird'	Full pot	3Ltr	As shown	June-Sept	purple		evergreen	
	Buxus sempervirens	200-300mms	3Ltr	7/m2	–	–		evergreen	
	Carex oshimensis 'Evergold'	200-300mms	3Ltr	7/m2	–	–		evergreen	
	Deschampsia cespitosa 'Bronzeschleier'	500mms	3Ltr	5/m2	summer	bronze		evergreen	
	Hebe Albicans	300-450mms	3Ltr	5/m2	early summer	white		evergreen	
	Jeffersonia diphylla	150-200mms	3Ltr	7/m2	spring	white		Deciduous	
	Liriope muscari 'Big Blue'	150-200mms	3Ltr	7/m2	autumn	blue -purple		evergreen	
	Liriope muscari 'Monroe White'	150-200mms	3Ltr	7/m2	autumn	white		evergreen	
	Luzula nivea	300-450mms	3Ltr	5/m2	June-July	white		evergreen	
	Luzula sylvatica 'Marginata'	300-450mms	3Ltr	5/m2	early summer	brown		evergreen	
	Lychnis viscaria 'Splendens Plena'	300-450mms	3Ltr	5/m2	summer	pink - purple		Deciduous	
	Pachysandra terminalis	200-300mms	3Ltr	7/m2	summer	white		evergreen	
BULB PLANTING									
	Allium hollandicum 'Purple Sensation'	Bulb		As shown	May-June	purple			
	Allium nigrum	Bulb		As shown	june	white			
	Galanthus elwesii	Bulb		25/m2	Jan-Feb	white			
	Nerine bowdenii	Bulb		As shown	Sept-Nov	pink			
	GROUNDCOVER SHRUB PLANTING								
	Luzula sylvatica 'Marginata'	300-450mms	3Ltr	5/m2	early summer	brown		evergreen	
	Pachysandra terminalis	200-300mms	3Ltr	7/m2	summer	white		evergreen	
	Sarcococca humilis	200-300mms	3Ltr	7/m2	winter	white		evergreen	
	GROUNDCOVER GRASS BANDS								
LsH	Luzula sylvatica 'Hohe Tatra'	300-450mms	3Ltr	5/m2	Spring - summer	brown	yellow leaves in winter	evergreen	
LsM	Luzula sylvatica 'Marginata'	300-450mms	3Ltr	5/m2	early summer	brown		evergreen	

Planting Notes:

1. Plant handling at the nursery, and during transit up to delivery , shall be in accordance with 'Plant Handling' the booklet published by the Committee for Plant Supply and Establishment (CPSE). The contractor shall comply with clauses 3 & 4 of the above booklet (obtained from the Horticulture Trades Association) which refers to the reciept, unloading and temporary storage of plants.

2. Plants shall be first class examples of their species or variety, free from all pests and diseases with good fibrous root systems and materially undamaged.
(Refer to relevant sections of BS3936 Parts 1-4 'Specification of Nursery Stock')

3. All planting is to be in general compliance with BS4428: 1989 'Code of Practice for general landscape operations (excluding hard surfaces)'.

4. All trees are to be staked and secured as followed:
i) All semi mature trees are to be underground guyed, detail to be confirmed.
ii) All Extra Heavy standard trees are to be double staked to 750mm above ground and secured using a single rubber tie. Detail to be confirmed

5. One number 80litre bag of tree planting compost (non peat based) is to be incorporated into two EHS tree pits or 4 Sel Std tree pits. Compost must be thoroughly mixed with with excavated (or imported) topsoil. Trees shall be planted in tree pits large enough to accomodate tree roots when fully spread.

6. Trees planted in grass are to have a 500mm diameter clear zone to the base and are to be mulched to a depth of 50mm with approved medium grade tree bark.

7. The contractor must ascertain for himself the exact location of any underground services and maintenance points.

8. All seeding, turfing and planting is to be implemented into ground prepared by the main contractor. All hedgerow whips and understorey whip planting are to be pit planted and backfilled with P4 Water Retaining Polymer and Enmag slow release fertiliser. Rates of application to Manufacturers recommendations.

9. Water as necessary to ensure the establishment and continued thriving of planted and grassed matter.

10. Carry out all work when soil and weather conditions are suitable:
i) Do not plant during periods of frost or strong winds. Plant only during the following periods
- Bare root deciduous trees and shrubs: Late October to late March
- Container grown plants: At any time if ground water and weather conditions are favourable.
Ensure that adequate watering and weed control is available.

11. All areas of ornamental shrub planting & hedging are to be mulched to a consolidated depth of 75mm using an approved amenity grade bark mulch.

Maintenance Notes:

1. Maintenance is to be carried out on a monthly basis (12nr annual visits) At each visit the following operations are to be carried out:
a- Check and firm all planted material including tree stakes and ties. Adjust any ties that are loose or rubbing. Tree stakes are to be removed following the second growing season following establishment. Also check materials after stormy or windy conditions.
b- Check for pests and diseases and treat appropriately
c- Remove all weeds and unwanted material via a combination of chemical and hand weeding operations to maintain a 1m clear area around each whip.
d- Pick up all litter and remove all arisings from site
e- Sweep all paths and roadways and dispose off site
f- Remove any dead material from site
g- Mow all seeded and turfed areas to a height of 50mm for the first cut following sowing and 20mm for each cut thereafter (15 cuts annually - Fortnightly during the growing season. No cuts between Nov - March).
h- Water as necessary to ensure the continuing health of all plants and grass

2. Carry out the following operations every 6 months:
a- Apply an approved fertilizer (non residual) to all planted material during spring and autumn
b- Apply an approved fertilizer to low maintenance grass areas during spring and autumn
c- Clip hedges to achieve the mature height of 1.2m. Leader growth to be left until this height is achieved and then lateral growth promoted.

3. Carry out the following operations annually:
a- During autum or following flowering prune all shrub material in accordance with good horticultural practice
b- Check all tree stock and carry out any necessary pruning (in accordance with good horticultural practice) to remove dead, dying, diseased or dangerous limbs or to achieve a balanced crown.
c- Top up all areas of bark mulch to a consolidated depth of 50mm
d- Replace any material which has failed over the previous 12 months. All replacements are to be of equal specification as the original and the replacements schedule is to be agreed with the CA prior to implementation. Any deviation from the species list must be agrees with the CA.
e- Edge all grassed areas adjacent to hard standing, shrub beds and around trees in grass during spring

Workmanship and Maintenance Generally

All works will be subject to the following British Standards :-

- B.S. 4428 : 1969 : General Landscape Operations
- B.S. 3936 : Part 1 : 1980 : Specification for Trees and Shrubs
- B.S. 3936 : Part 10: 1981 : Specification for Ground Covers
- B.S. 5837 : 2012 : Trees in Relation to Construction

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4. The dimensions of all materials must be checked on site before being laid out.
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6. Order of construction and setting out to be agreed on site.

RETAINED EXISTING TREES
PROPOSED TREES Species as labelled Refer to Plant Schedule
LAWN
GRASSES PLANTING Within Lawn, Refer to Planting schedue and Softworks GA
GROUND COVER PLANTING Minimum 1m height Refer to Planting schedule
ORNAMENTAL PERENIAL AND EVERGREEN PLANTING To internal courtyard Seasonal interest throughout Refer to planting schedule
HEDGE Instant hedge planting 1.2m high Refer to Planting Specification

Issue	Date	Status	Drawn	Apprvd.
02	24/07/15	Design Amends	SF	DL
01	29/06/15	For Comment	RB	DL

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Client: Jamworks
Project: Bevington Bush
Drg Title: Bevington Bush Softworks
Created on: 30/04/2015 Created by: RB Approved by: DL
Scale: 1:250 Size: A1 Status: FOR PLANNING
Drg No.: PL1488.GA.003 Issue: 02