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LAND OFF TEVERSHAM ROAD,
FULBOURN



PLANNING SUBMISSION
(ARBORICULTURE)



-TREE SURVEY TO BS5837:2012
-PROPOSALS FOR TREE RETENTION/
REMOVAL
(ILLUSTRATIVE)



Prepared for: Castlefield International Ltd

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TEVERSHAM ROAD, FULBOURN : KEY TO TREE SURVEY DATA SCHEDULE

Note

This survey has been undertaken in compliance with BS5837:2012; it is not intended to be a tree safety survey. Any notes offered on structural integrity of trees are incidental, though where trees are considered to be in immediately hazardous condition (identified by red font in the *Structural condition & Notes* column, see below), our recommendations given for immediate intervention should be put in hand by the owner / site manager as soon as can be arranged.

Trees are dynamic living organisms capable of achieving considerable size and structural complexity. They are exposed to and can become damaged by the elements and by human activity, and have co-evolved with decay-causing organisms that can degrade and sometimes destroy their structural integrity. Due to genetic characteristics and local microenvironmental factors this integrity can be innately uncertain. The laws and forces of nature dictate a natural failure rate even among trees that are healthy and structurally sound. By their very nature, therefore, trees cannot be considered entirely hazard-free.

Tree surveys and / or tree inspections are, inherently, only a snapshot in time of the physiological and structural condition of the trees concerned.

Unless otherwise stated in our reporting material, all such surveys and inspections are undertaken from ground level and no internal inspections or tests have been undertaken. Any structural defects present might not be visible, for example being masked by vegetation, whether the tree's foliage, plants growing round the base of the tree, or climbing plants growing on the stem and into the crown.

Unless otherwise stated, the survey data should be considered time-limited **for planning purposes** to a maximum of three years (absent revisions of BS5837, which render pre-existing data obsolete).

FLAC Ref. No.

Tree numbers per FLAC dwg no. 34-1018.01 and subsequent drawings

In line with the advice of BS5837:2012, where trees occur as a cohesive group feature (prefixed TG for tree group or WG for woodland group), they are assessed as such

Size data for TG or WG are given as mean figures for trees at roughly the 80 percentile of the population concerned. Trees in the 90-100 percentile range for the group are identified on the TSP

Trees within TG / WG boundaries that have more than one stem and which are sub-dominant within the TG / WG (i.e. <80 percentile) are subsumed within the TG / WG data; dominant multi-stemmed trees (i.e. >80 percentile) within TG / WG boundaries are listed as individual trees

TG / WG outlines follow the mapping base (typically either topographical survey or geo-rectified aerial imagery)

Hedges (domestic) are recorded prefixed H and are always excluded from the provisions of the Hedgerows Regulations 1997

Hedgerows (rural) are recorded prefixed HR and possibly fall within the provisions of the Hedgerows Regulations 1997

All numbering starts from x001 **for each type of vegetation**, where x identifies the surveyor (9000 series = JFL). Thus:

9000	Individual tree
TG9000	Tree group
WG9000	Woodland group
H9000	Domestic hedge
HR9000	Rural hedgerow

The addition of the FLAC instruction ref. ahead of the tree number provides a unique, non-repeated reference number for the particular tree in question

Any trees omitted from the topo survey are listed on the referenced plan, though their positions are only shown indicatively. Off-site trees are included where deemed relevant, though their positions are also shown indicatively if omitted from the topo base

TPO Ref.

Statutory protection listing for individual trees, TG and WG.

The site is subject to statutory tree protection by the Tree Preservation Order (TPO) referable as *The County of Cambridge Tree Preservation Order Number 8 of 1963, Fulbourn* (of which the Schedule and Map are included, following).

This TPO protects trees on site within two Areas, A6 and A7, and certain off-site trees covered by our tree survey as groups, G12, G13 and G14.

The Area designation protects only those trees present on site when the Order was made, such that trees arising after 1962 are not protected by it.

Area 7 appears to be defined on the TPO Map a ring of dots with a second ring of dots internally so as to form a looped area that excludes the central zone. We have taken a precautionary approach when discounting trees or groups because the plan is somewhat unclear.

Due to this uncertainty, we have included 3001 as part of A7, thereby giving it the benefit of the doubt.

We consider it possible that G14 may include the ash in TG3026 and the sycamores in TG3027, and have indicated this accordingly in the survey data schedule.

We understand that trees within the Ornamental Garden stand within the Fulbourn Conservation Area, thereby conferring similar statutory protection to the TPO.

Further statutory control over tree removal may be conferred by the Forestry Act 1967.

Species

Tree species as listed in the schedule by common name. Species present are:

<i>Common name</i>	<i>Botanical name</i>	<i>Provenance</i>	<i>Notes</i>
Apple	<i>Malus domestica</i>	Native	
Ash	<i>Fraxinus excelsior</i>	Native	
Austrian pine	<i>Pinus nigra</i>	Exotic	
Beech	<i>Fagus sylvatica</i>	Native	
Bird cherry	<i>Prunus padus</i>	Native	
Blackthorn	<i>Prunus spinosa</i>	Native	
Butterfly bush	<i>Buddleja davidii</i>	Exotic	
Cherry laurel	<i>Prunus laurocerasus</i>	Exotic	
Cider gum	<i>Eucalyptus gunnii</i>	Exotic	
Common lime	<i>Tilia x europaea</i>	Native	
Crab apple	<i>Malus sylvestris</i>	Native	
Crack willow	<i>Salix fragilis</i>	Native	
Dog rose	<i>Rosa canina</i>	Native	
Dogwood	<i>Cornus officinalis</i>	Native	
Elder	<i>Sambucus nigra</i>	Native	

Field maple	Acer campestre	Native	
Flowering cherry	Prunus sp.	Exotic	Generic term for Japanese cherries
Gean	Prunus avium	Native	
Goat willow	Salix caprea	Native	
Hawthorn	Crataegus monogyna	Native	
Hazel	Corylus avellana	Native	
Himalayan birch	Betula utilis	Exotic	
Holly	Ilex aquifolium	Native	
Hornbeam	Carpinus betulus	Native	
Horse chestnut	Aesculus hippocastanum	Naturalised	
Laburnum	Laburnum anagyroides	Exotic	
Large leaved lime	Tilia platyphyllos	Native	
Leyland cypress	x Cupressocyparis leylandii	Exotic	
Norway maple	Acer platanoides	Exotic	
Norway spruce	Picea abies	Exotic	
Pear	Pyrus communis	Native	
Plum	Prunus domestica	Native	
Purple plum	Prunus cerasifera 'Pissardii'	Exotic	
Red horse chestnut	Aesculus x carnea	Exotic	
Rowan	Sorbus aucuparia	Native	
Scots pine	Pinus sylvestris	Native	
Silver birch	Betula pendula	Native	
Spindle tree	Euonymus europaeus	Native	
Sycamore	Acer pseudoplatanus	Naturalised	
Walnut	Juglans regia	Exotic	
Weeping willow	Salix x sepulcralis 'Chrysocoma'	Exotic	
Western red cedar	Thuja plicata	Exotic	
White poplar	Populus alba	Exotic	
Yew	Taxus baccata	Native	Present as 'Fastigiata'

Tree Count

For trees assessed as groups (ident. prefix TG), number of trees present, according to:

2-10 trees	Accurate count
11-50 trees	Close estimate
51-100 trees	Estimate

Note

Assemblages of trees

Area m²

For trees assessed as woodland (ident. prefix WG), existing area in square metres within survey envelope, derived from CAD interrogation of the completed tree survey plan

Ht. (m)

Tree height in metres

Either:

Crown Spread

For individual trees, measured radial crown spread in metres, listed for each of the four cardinal points

Or:

MRCS

For trees assessed as groups or woodland, an estimated mean radial crown spread in metres for trees at the 80 percentile size

Note

For trees assessed as woodland, sample measurements for canopy overhang beyond woodland boundary (i.e. hedgerow, fence, ditch etc.) are given on the tree survey plan

Or:

Mean Width

Mean width in metres of hedge or hedgerow

Length

Approximate length in metres of hedge or hedgerow

Ht. 1st Br.

For individual trees and trees assessed as groups or woodland, height in metres above ground of attachment point of first significant branch (cardinal point may be given indicating growing direction)

Ht. Can.

For individual trees and trees assessed as groups or woodland, mean height in metres of lower extent of tree canopy above ground

Stem Count

For individual trees, number of stems present below 1.5m AGL. Stem count affects diameter entry as follows:

Where the stem count is 1 the diameter should be entered into the 1 column under Stem Dia.

Where the stem count is up to 5 each stem dia. should be listed

Where the stem count exceeds 5, the mean stem diameter should be entered in the 1 column

Either:

Stem Dia. (mm)

Stem diameter(s) at 1.5m above ground level (see measurement system in BS5837:2012 Annex C), given in millimetres

Where entered 1:

Single measured stem diameter

Where entered 2-5:

Multiple measured stem diameters, listed per stem

Where entered >5:

For trees with more than five stems, diameter is listed as an estimated mean

Where the diameter entry for trees with 1 or 2-5 stems appears in italics, this indicates that it was estimated by the surveyor (for example, due to the presence of ivy on the stem)

It is our practice to round up when estimating stem diameters

Or:

Specimen Stem Dia.

For trees assessed as groups or woodland, stem diameter in millimetres at 1.5m above ground level for 80 percentile member of TG or WG. Trees with larger diameters are identified on the TSP

Or:

Mean Stem Dia.

Mean stem diameter in millimetres above the basal flare of hedge or hedgerow component plants

Either:

RPA Rad.

Radius in metres of the notionally circular Root Protection Area

Or:

Specimen RPA Rad.

For trees assessed as groups or woodland, radius in metres of the notionally circular Root Protection Area based on specimen diameter for TG or WG 80 percentile tree

Either:

RPA Area

Conversion of RPA radius to an area, given in m², capped to a maximum of 707m² (in line with BS5837:2012)

Or:

Specimen RPA Area

For trees assessed as groups or woodland, conversion of specimen RPA radius to an area, given in m², capped to a maximum of 707m²

Note

RPA for hedges or hedgerows is to be taken as 3m from the centreline, half the height or 2m beyond existing width, whichever is the greater

Life Stage

Life stage assessment according into:

Y	Young
SM	Semi-mature
EM	Early mature
M	Mature
OM	Over-mature

Phys. Condition

An assessment of the **physiological** condition (i.e. health/vitality) status of the tree summarised according to:

GOOD	Generally in healthy condition
FAIR	Condition satisfactory though below mean species performance
POOR	Tree in decline/retrenching
DEAD	Self explanatory

Structural condition & Notes

Notes on the apparent structural integrity of the tree based on visual tree assessment, including notes on form, taper, forking habit, storm damage, decay fungi, pests, etc. plus other pertinent observations

Management recommendations

Preliminary recommendations for intervention (e.g. tree surgery, felling, etc) in relation to existing context

Trees assessed as being in apparently immediately hazardous condition will be notified to the client separately as soon as practical. Where the recommendation is for further investigation, including removal of ivy and reinspection, the given retention span and quality/value grade (see below) should be treated as provisional

Notes

This is **not** intended to comprise a specification for tree work: further advice should be sought prior to implementation

Change in land use (target value) requires further assessment

Ret. Span

Estimated remaining retention span based on species, condition & context divided into the following bands (relates to quality and value grade achievable as stated):

Years Best QV grade

<10	U
10+	C
20+	B
>40	A

QV Grade

Quality & Value grade classification according to BS5837:2012 (see attached extract from BS5837:2012 'Table 1 - Cascade Chart for Tree Quality Assessment') –

<i>Grade</i>	<i>Summary meaning</i>	<i>Ident. colour spot on TSP</i>
U	Trees that are unretainable in viable condition	Dark red
A	High quality & value and consequent high retention priority	Light green
B	Moderate quality and value (moderate priority for retention)	Mid-blue
C	Low quality and value (generally considered to be sacrificial)	Grey

Note

Trees present which we consider to be **exceptional** specimens are identified by the suffix * after the A grade, e.g. A1*

Proposal

This column identifies:

1. Pre-planning (Arboricultural Stages 1, Tree Survey, & 2, Design):
JFL's initial view of a defensible tree retention / removal balance
2. Planning submission (Arboricultural Stage 3):
The actual tree retention / removal balance as proposed

The following codes are used:

RET	1. Trees preferably retained 2. Trees that would be retained
PRET	<i>For woodlands only</i> – signifies partial retention (see below)
REM	1. Trees defensibly removed to facilitate development 2. Trees that would be removed
U	Trees identified to be unsuitable for retention

Area retained m²

For woodlands only

Area, in square metres, of woodland (WG) proposed for retention. Outcomes are as follows:





Survey grade U	Area for retention defaults to 0 (can be amended by manual override)
Proposal code RET	Area for retention defaults to existing area
Proposal code PRET	Area for retention requires manual input following interrogation of relevant plans
Proposal code REM	Area for retention defaults to 0

Area retained %

For woodlands only

Percentage of pre-existing WG area that would be retained, based on an auto-sum derived from inputs into the preceding column

BS5837:2012 Table 1 – Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
Trees unsuitable for retention (see Note)				
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	<ul style="list-style-type: none"> 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 category U trees (e.g. 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, or very low quality trees suppressing adjacent trees of better quality <p><i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see [BS5837:2012] 4.5.7.</i></p>			
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
Trees to be considered for retention				
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value	
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value	

FLAC Note

The original contents of the column *Identification on plan* have been replaced by FLAC in the version above; spot colours to RGB codes given in BS5837:2012 Table 2

TEVERSHAM ROAD, FULBOURN : TREE SURVEY DATA TABLE

Data for individual trees

FLAC Ref. No.	TPO Ref	Species	Ht. (m)	Crown Spread (m)				Ht. 1 st Br. (m)	Ht. Can. (m)	Stem Count	Stem Dia. (mm)					RPA Rad. (m)	RPA Area (m2)	Life Stage Y-SM-EM-M-OM	Phys. Condition G-F-P-D	Structural condition & Notes	Management recommendations	Ret. Span <10, 10+ 20+, >40	QV Grade U-A-B-C	Proposal
				N	S	W	E				1 / mean	2	3	4	5									
3001	A7	Ash	21.6	15.7	10	11	7	4 N	2.2	1	1100					13.20	547	OM	F	Water filled ditches to immediate south and west. Very dense ivy impedes inspection and diameter measurement. Stem bifurcates from 2.5 metres before diverging further into large scaffold members forming a broadly spreading crown covering a large area with a pronounced bias to both west and north and sharing companion shelter to east. Dense ivy present through crown structure impedes assessment. Splayed form appears vulnerable to fracture of long laterals under their own weight plus wind-loading - intervention pruning advised to reduce likelihood of failure in particular at west through to north where target occupancy is greatest and also to third party land at south. Moderate dead wood scattered through crown. A large and prominent specimen.	Reduce whole crown by 2.5 metres radially and reduce the long limb at north-west(over ditch), by 3.5 metres. Remove dead wood >15mm in diameter. Girdle and remove ivy from ground level to 2 metres.	20+	B1	RET
3002		Sycamore	15.3	1	4.7	4.7	5	3.8 W	4	2	500	350				7.33	169	M	G	Dense ivy impedes inspection of stem and principal branch structure. Shares companion shelter and aerodynamic form with adjacent specimen. In satisfactory overall condition. Ditch to west.	No action required at time of survey.	>40	B1	RET
3003		Ash	15.2	1.5	5	5.8	3.2	4 S	5	4	280	270	180	170		5.54	96	EM	F	Slender, drawn-up specimen. Shares companion shelter and aerodynamic form with adjacent specimens. Ditch to west.	Remove dead wood >15mm in diameter.	>40	B1	RET
3004		Ash	15	2	1	5	4.5	2 W	2	3	280	270	200			5.25	87	EM	F	Multi-stemmed from ground level. Shares companion shelter and aerodynamic form with adjacent specimens. Slender, drawn-up stems with early bark inclusions at unions. Ditch to west.	No action required at time of survey.	20+	B1	RET
3005		Sycamore	15	5	1	4.8	5.6	2 E	1.5	6	240					7.06	157	EM	F	Multi-stemmed from ground level. Shares companion shelter and aerodynamic form with adjacent specimens. Slender, drawn-up stems with early bark inclusions at unions. Ditch to west.	No action required at time of survey.	20+	B1	RET
3006		Sycamore	11	4.8	4.2	1.6	4.2	2.6 N	3	2	227	155				3.30	34	SM	G	Twin stems from ground level. Tight unions and compression between stems likely to affect long-term retention.	No action required at time of survey.	20+	C1	REM
3007		Ash	10	0.5	5	0	3.6	2.5 S	3	1	132					1.59	8	SM	F	Acute basal sweep to east from ground level. Suppressed, with asymmetrical form.	No action required at time of survey.	20+	C1	REM
3008		Ash	11	3	4	2	0	3 S	2	6	165					4.85	74	SM	F	Several slender upright stems from one compact crown. Low arboricultural or landscape merit.	No action required at time of survey.	20+	C1	REM
3009		Ash	11	4	3.5	0	4	2.8 N	3	3	170	170	170			3.54	39	SM	F	Several slender upright stems from one compact crown. Low arboricultural or landscape merit.	No action required at time of survey.	20+	C1	REM
3010		Ash	10.2	1	3	1	2	2.3 SE	2.6	1	122					1.47	7	SM	F	Slender, drawn-up, suppressed and asymmetrical. Low arboricultural and landscape merit.	No action required at time of survey.	20+	C1	REM
3011		Ash	10.2	4	1.5	1	4.5	1.6 E	1	1	226					2.72	23	SM	F	Stem and principal branch structure and unions in satisfactory condition. Shares companion shelter and aerodynamic form with resulting asymmetrical form.	No action required at time of survey.	20+	C1	REM
3012		Ash	5.5	2.8	1	2	3	2 W	2	4	75	75	35			1.62	8	Y	G	A scrubby and unremarkable multi-stemmed specimen. Low arboricultural and landscape merit.	No action required at time of survey.	20+	C1	REM
3013		Ash	10.5	3.4	4	3.7	0	2 W	2	1	170					2.04	13	SM	G	Slender, suppressed and with asymmetrical form.	No action required at time of survey.	20+	C1	REM
3014		Ash	10	2.9	0	3	2.6	3 N	3	1	165					1.98	12	SM	G	Slender, suppressed and with asymmetrical form.	No action required at time of survey.	20+	C1	REM
3015		Ash	11.5	2	5.5	4.8	2.8	3 S	2	2	255	145				3.53	39	EM	G	Stem and principal branch structure and unions in satisfactory condition. Secondary stem present from ground level at east. Some internal dead wood present. In satisfactory overall condition.	No action required at time of survey.	>40	B1	REM
3016		Hawthorn	5	3.6	0	2	1.5	1 N	1	1	120					1.44	7	SM	F	Heavily suppressed with resulting asymmetrical form. Low arboricultural and landscape merit.	No action required at time of survey.	20+	C1	REM
3017		Ash	11	6	0	6	2	4.5 N	2.5	1	325					3.90	48	EM	G	Stem is slightly swept to north from ground level after companion shelter. Principal branch structure and unions in satisfactory condition. Crown structure partially obscured by ivy. Crown bias to north and west.	No action required at time of survey.	20+	B1	REM
3018		Sycamore	12	6	6	6	6	1 N	0.5	3	430	430	400			8.74	240	M	G	Multi-stemmed from ground level. Very dense ivy impedes inspection and diameter measurement. Some included unions seen within structure but these appear stable currently.	No action required at time of survey.	20+	B1	REM
3019		Sycamore	11	4	3.8	0	4	3.5 N	4	3	240	240	160			4.51	64	SM	F	Slender, suppressed stems with very dense ivy impeding inspection. Asymmetrical crown form. Low arboricultural or landscape merit.	No action required at time of survey.	20+	C1	REM
3020		Ash	10.5	5.5	0	4	1.8	3.7 N	4	1	200					2.40	18	SM	F	Stem incline and crown bias to north after companion shelter. Low arboricultural or landscape merit.	No action required at time of survey.	20+	C1	REM
3021		Sycamore	14	7.5	5	6	8	1 N	1	4	510	510	360	300		10.33	335	M	G	Multi-stemmed from close to ground level with tight unions but in apparent stable condition currently. Very dense ivy present through crown.	No action required at time of survey.	>40	B1	REM
3022		Sycamore	14	4	0	6	5.8	2 W	2.5	2	340	220				4.86	74	EM	G	Very dense ivy impedes inspection and diameter measurement. Twin stems from close to ground level. Very little of structure visible. Sharing close companion shelter with adjacent specimens resulting in asymmetrical form although a component of a wider collective crown.	No action required at time of survey.	20+	B1	REM
3023		Sycamore	14	4	0	6	5	4 NE	4	2	370	320				5.88	109	EM	G	Very dense ivy impedes inspection and diameter measurement. Twin stems from close to ground level. Very little of structure visible. Sharing close companion shelter with adjacent specimens resulting in asymmetrical form although a component of a wider collective crown.	No action required at time of survey.	20+	B1	REM

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				N	S	W	E				1 / mean	2	3	4	5									
3024		Sycamore	14	2	2	6.8	6	3.7 E	4	2	380	380			6.45	131	EM	G	Very dense ivy impedes inspection and diameter measurement. Twin stems from close to ground level. Very little of structure visible. Sharing close companion shelter with adjacent specimens resulting in asymmetrical form although a component of a wider collective crown.	No action required at time of survey.	20+	B1	REM	
3025		Sycamore	14	1	1	6.8	4	1 E	1	2	320	150			4.25	57	EM	G	Very dense ivy impedes inspection and diameter measurement. Twin stems from close to ground level. Very little of structure visible. Sharing close companion shelter with adjacent specimens resulting in asymmetrical form although a component of a wider collective crown.	No action required at time of survey.	20+	B1	REM	
3026		Sycamore	15	1	1	6.8	6	4 E	2	4	360	330	210	190	6.78	144	EM	G	Very dense ivy impedes inspection and diameter measurement. Multi-stemmed from close to ground level. Very little of structure visible. Sharing close companion shelter with adjacent specimens resulting in asymmetrical form although a component of a wider collective crown.	No action required at time of survey.	20+	B1	REM	
3027		Sycamore	15	2	5.5	8.6	7.2	2 W	0.5	2	700	350			9.40	277	M	G	Very dense ivy impedes inspection and diameter measurement. Twin stems from close to ground level. Very little of structure visible. Sharing close companion shelter with adjacent specimens resulting in asymmetrical form although a component of a wider collective crown.	No action required at time of survey.	20+	B1	REM	
3028		Sycamore	15	0	6.5	8.2	7	2 W	2	3	360	350	340		7.28	166	M	G	Very dense ivy impedes inspection and diameter measurement. Multi-stemmed from close to ground level. Very little of structure visible. Sharing close companion shelter with adjacent specimens resulting in asymmetrical form although a component of a wider collective crown.	No action required at time of survey.	20+	B1	REM	
3029	A7	Sycamore	16	7	5	6	3	2.6 N	2	1	700				8.40	222	M	G	Fence and dense ivy both impede inspection and diameter measurement. Structure and vitality both appear satisfactory.	No action required at time of survey.	20+	B1	RET	
3030	A7	Sycamore	16	2	4	3	4.8	7 E	7	1	500				6.00	113	M	G	Fence and dense ivy both impede inspection and diameter measurement. Structure and vitality both appear satisfactory.	No action required at time of survey.	20+	B1	RET	
3031		Weeping willow	3.5	15	0	0	10	0	0	1	700				8.40	222	OM	P	Off site tree that has collapsed across the ditch. Large brackets of <i>Polyporus squamosus</i> present in region of decayed section. Collapsed section lies substantially within site boundary. Limited future potential although currently still alive and bearing foliage.	No action required at time of survey.	20+	C1	REM	
3032		Plum	5	2.6	3.6	3	4	3 W	2	1	290				3.48	38	M	P	<i>Ganoderma</i> sp. fruiting brackets at north-east and south-west and associated decay of stem. Large dead wood limbs present. Approximately 45% dead.	No action required at time of survey.	<10	U	U	
3033	A7	Austrian pine	21.4	7	7.6	5	6	8 SW	8	1	800				9.60	289	M	P	Very dense ivy impedes inspection and diameter measurement. Distal decline observed throughout twig structure of upper crown. Large dead limbs present at north of crown. Vitality impaired.	No action required at time of survey.	10+	C1	RET	
3034		Large leaved lime	14	3.4	6.5	4.6	5.1	3.8 S	0.5	1	237				2.85	26	SM	F	Slender, upright stem. Principal branch structure and unions in satisfactory condition. Good overall form despite light restriction and companion shelter.	No action required at time of survey.	>40	B1	RET	
3035	A7	Austrian pine	14	0	7.3	5.3	1	8 SW	6	1	580				6.96	152	M	P	Very dense ivy impedes inspection. Most of upper crown previously lost after fracture of stem. Large limb to south-west remains. Low residual merit or potential.	No action required at time of survey.	10+	C1	RET	
3036		Western red cedar	14	2.8	3.5	3.2	3.6	0.3 E	0	1	375				4.50	64	EM	G	Upright lower stem trifurcates from 3 metres with poor included and compressed unions that appear likely to limit long-term retention.	No action required at time of survey.	20+	C1	REM	
3037	A7	Yew	10	5.5	8	6.5	5.3	1.6 S	1	2	410	273			5.92	110	EM	G	General bias of structural form and crown to south after companion shelter. In satisfactory condition.	No action required at time of survey.	>40	B1	RET	
3038	A7	Yew	12.3	4.5	5	5	5.7	4 NE	3	1	620				7.44	174	EM	G	Stem and principal branch structure and unions in satisfactory condition. Attractive, symmetrical form. High quality landscape tree.	No action required at time of survey.	>40	A1	RET	
3039	A7	Western red cedar	21	2	2.8	2	2.5	6 S	3	1	540				6.48	132	M	G	Upright stem. Principal branch structure and unions in satisfactory condition. No apparent significant defects.	No action required at time of survey.	20+	B1	RET	
3040		Western red cedar	18	3.2	3.2	3.2	3.2	0.3 W	0.5	1	750				9.00	254	M	G	Upright, columnar form. Principal branch structure and unions in satisfactory condition. Overall in good condition.	No action required at time of survey.	>40	B1	RET	
3041		Yew	13.5	7.5	5.4	7.8	6.5	3 S	1	1	740				8.88	248	EM	G	Stem and principal branch structure and unions in satisfactory condition. Attractive, symmetrical form. Good future potential. High quality landscape tree.	No action required at time of survey.	>40	A1	RET	
3042		Yew	13	10.4	2.5	7.4	7.2	3 S	1.7	1	900				10.80	366	M	G	Slight stem incline to north from ground level. Principal branch structure and unions in satisfactory condition. Good overall form and condition. High quality landscape tree.	No action required at time of survey.	>40	A1	RET	
3043		Western red cedar	18.8	3.5	1	3	3	2.5 N	1	1	605				7.26	166	M	G	Upright stem. Principal branch structure and unions in satisfactory condition. No apparent significant defects.	No action required at time of survey.	20+	B1	RET	
3044		Yew	11.4	7.5	4	7.4	6.4	2.5 W	1	1	910				10.92	374	M	G	Slight stem incline to north from ground level. Principal branch structure and unions in satisfactory condition. Good overall form and condition. High quality landscape tree.	No action required at time of survey.	>40	A1	RET	
3045		Austrian pine	20.4	4.7	1	3	6	11 N	10	1	670				8.04	203	M	F	Ivy impedes inspection of stem. Slight incline to north-east after companion shelter. Asymmetrical crown. Satisfactory overall condition.	No action required at time of survey.	20+	B1	RET	
3046		Western red cedar	18.4	3.2	4.2	5	4.7	7 S	5	1	770				9.24	268	M	F	Stout, upright stem. Some dead wood at lower stem after light exclusion. Typical form and structure for the species. Overall in satisfactory condition.	No action required at time of survey.	20+	B1	RET	
3047		Holly	15	4	5	2	5	4 E	2.5	1	365				4.38	60	M	F	Slight stem incline to east from ground level after light competition. Typical form and structure for the species. In satisfactory overall condition.	No action required at time of survey.	20+	B1	RET	
3048		Western red cedar	18.2	4.3	4.5	4.2	4.3	1 S	0	2	820	220			10.19	326	M	G	Secondary stem from 1 metre south. Typical form and structure. No apparent significant defects.	No action required at time of survey.	20+	B1	REM	
3049		Yew	4.5	4	3	4	3	1 S	0	1	180				2.16	15	SM	G	Compact specimen of shrub-like form.	No action required at time of survey.	>40	B1	REM	
3050		Large leaved lime	4.5	2	2	2	2	1 S	1	7	50				1.59	8	Y	G	Multi-stemmed from ground level, probably growing from an old stump. Tree of relatively low significance.	No action required at time of survey.	>40	C1	REM	
3051		Large leaved lime	9	5.3	1	3.8	4.5	4.5 N	3.5	1	560				6.72	142	M	P	Recent collapse of stem leaves a 6 metre stump with a single limb from 3.5 metres at west. Possible nest site in decayed zone near lower edge of fracture.	No action required at time of survey.	20+	C1	RET	

FLAC Ref. No.	TPO Ref	Species	Ht. (m)	Crown Spread (m)				Ht. 1 st Br. (m)	Ht. Can. (m)	Stem Count	Stem Dia. (mm)					RPA Rad. (m)	RPA Area (m ²)	Life Stage Y-SM-EM-M-OM	Phys. Condition G-F-P-D	Structural condition & Notes	Management recommendations	Ret. Span <10, 10+ 20+, >40	QV Grade U-A-B-C	Proposal
				N	S	W	E				1 / mean	2	3	4	5									
3052		Bird cherry	13	6.6	1	7	2	2.3 N	0.5	1	370					4.44	62	M	G	Stem becomes swept to north-east after light suppression. Heavily asymmetrical form but to well developed to become anything but a sub-optimal specimen.	No action required at time of survey.	20+	C1	REM
3053	A7	Beech	31	10.7	7.8	7.8	8.8	4 S	2	1	1020					12.24	470	M	G	Dense ivy impedes inspection of lower stem and base. Stout lower stem section has good taper up into crown. Principal branch structure and unions in satisfactory condition. Occasional moderate sized dead wood but overall in good condition. A very high quality landscape tree.	Remove dead wood >15mm in diameter that may affect highway land to south.	>40	A1	RET
3054	A7	Horse chestnut	25	7.3	4.5	5.3	7.3	4 S	2	1	688					8.26	214	M	G	Upright stem. Principal branch structure and unions in satisfactory condition. No apparent significant defects. High quality landscape tree.	No action required at time of survey.	>40	A1	RET
3055		Laburnum	9.2	2	3.7	4.4	4.5	2 S	4	2	272	223				4.23	56	M	F	Stem and principal branch structure and unions in satisfactory condition. Typical form and structure for the species. In satisfactory condition but with limited future potential due to current life stage.	No action required at time of survey.	10+	C1	REM
3056		Rowan	10	4.4	2.5	2.8	4.8	2 S	2	1	310					3.72	43	EM	G	Stem and principal branch structure and unions in satisfactory condition. Dead wood at lower crown but overall in satisfactory condition.	No action required at time of survey.	20+	B1	REM
3057	A7	Sycamore	23.5	10	11	9	7	5 S	4	1	1280					15.00	707	M	G	Very dense ivy impedes inspection and diameter measurement. Very large for the species in prominent position at south boundary of the site. High quality landscape tree.	Girdle and remove ivy from ground level to 2 metres.	>40	A1	RET
3058	A7	Sycamore	21.5	6.9	9.3	7	7.5	4 SW	3	1	810					9.72	297	M	G	Dense ivy impedes inspection of stem and principal branch unions. Typical form for the species with attractive lateral branch structure. High quality landscape tree.	Girdle and remove ivy from ground level to 2 metres.	>40	A1	RET
3059	A7	Sycamore	27	11	9.5	7.5	9	3 S	3	1	1180					14.16	630	M	F	Very dense ivy impedes inspection and diameter measurement. Large stem bifurcates from 5 metres. Distal decline observed of a few individual limbs at upper south crown with some potential to affect highway to south. No causal agent seen but dense suckering and ivy impede basal inspection so work to clear this is recommended.	Girdle and remove ivy from ground level to 2 metres. Remove dead wood >15mm in diameter.	20+	B1	RET
3060	A7	Sycamore	23	9	8	10	10.8	3.7 S	4	1	1100					13.20	547	M	F	Specimen has re-grown after past topping at 7 metres. Ivy previously severed enabling greater inspection of structure than similar specimens on this boundary. Overall in good condition.	No action required at time of survey.	>40	A1	RET
3061		Cider gum	11	5	5	5	5.2	3.6 S	2	1	400					4.80	72	EM	G	Off site tree. No access. Remote inspection only. Past crown reduction pruning work evident. No apparent significant defects.	No action required at time of survey.	>40	B1	RET
3062	A6	Ash	20	10.8	1.5	6	10	6 N	0	1	720					8.64	234	M	F	Very dense ivy impedes inspection. Stem and principal branch structure and unions completely obscured and diameter estimated under ivy. Asymmetrical crown form after suppression by dominant willow to south. Low limbs to north and north-east appear over-extended and vulnerable to fracture (sub-lateral failure evident currently at north-east). Both the long limbs hang low to ground level at their tips. Specimen appears to have limited future potential and the grade is to be considered provisional and subject to amendment after ivy withers enabling clearer assessment of structural condition. Stream to west.	Girdle and remove ivy from ground level to 2 metres.	20+	B1	RET
3063	A6	Crack willow	23.5	8	5	2	11.2	4 S	3	1	1260					15.00	707	M	F	Very stout lower stem with initial incline to north from ground level. Very dense ivy impedes inspection of stem and principal branch structure and diameter measurement has been estimated beneath ivy. Some lower crown dead wood after light exclusion. Past failure of scaffold from approximately 8 metres north evident, probably during winter high winds. Grade is to be considered provisional and subject to amendment after ivy withers enabling clearer assessment of structural condition. Stream to west.	Girdle and remove ivy from ground level to 2 metres.	20+	B1	RET
3064		Sycamore	10	4	2	6	3.5	1.5 E	1.2	1	275					3.30	34	SM	F	A suppressed specimen with asymmetrical form. Low arboricultural or landscape merit. Stream to west.	No action required at time of survey.	20+	C1	RET
3065	A6	Sycamore	14	5	5	6.5	6.5	2.2 E	2	1	520					6.24	122	EM	G	Very dense ivy impedes inspection of stem and principal branch structure. In satisfactory overall condition. Stream to west.	No action required at time of survey.	>40	B1	RET
3066		Sycamore	11.3	4.2	3.5	2	3.8	2.6 N	3	1	320					3.84	46	SM	G	Slender, upright stem. Dense vegetation impedes access and inspection. In satisfactory overall condition.	No action required at time of survey.	>40	B1	RET
3067	A6	Hawthorn	4.7	3	3	3	1.5	0.3 N	1.5	1	350					4.20	55	EM	P	Very heavily ivy clad. Heavily suppressed. Low vitality evident with sparse foliage.	No action required at time of survey.	10+	C1	RET
3068		Ash	6.5	2.7	2.2	2.7	2.8	1.5 W	1.8	1	130					1.56	8	Y	G	Small specimen with some crown asymmetry likely to be due to past companion shelter of coppiced willows to south.	No action required at time of survey.	>40	C1	RET
3069		Apple	3	2.2	2.4	2.4	2.4	1.2 N	1.5	1	270					3.24	33	SM	G	Off site tree. No access. Compact crown overhangs site boundary. Tree of relatively low significance.	No action required at time of survey.	20+	C1	RET
3070	A6	Sycamore	16.5	7.8	8	6.4	7.7	1.5 N	2	1	770					9.24	268	M	G	Stem and principal branch structure and unions in satisfactory condition. Ivy has been severed previously. Attractive, symmetrical crown. Diameter measured at 1 metre due to stem morphology.	No action required at time of survey.	>40	B1	RET
3071		Sycamore	15.3	6	6	4.4	5	2 W	2	1	370					4.44	62	EM	G	Upright stem bifurcates at 4.5 metres with early bark inclusion. Remaining structure good. In satisfactory condition for the medium term at the least.	No action required at time of survey.	>40	B1	RET
3072	A6	Sycamore	14.3	6	8.4	5.8	7.4	5 N	3	1	630					7.56	179	M	G	Stem and principal branch structure and unions in satisfactory condition. General bias of structure and crown form to south and east. Variegated foliage. In satisfactory overall condition.	No action required at time of survey.	>40	B1	RET
3073	A6	Horse chestnut	15.5	7.4	7.4	7.4	7.4	4 S	3	1	650					7.80	191	EM	G	Off site tree. No access. Assumed to be a private specimen. Symmetrical crown form. Remote inspection only.	No action required at time of survey.	20+	B1	RET
3074		Sycamore	15.2	2	5	4	2.8	5 S	5	1	420					5.04	80	EM	G	Off site tree. No access. Assumed to be a private specimen. Crown bias to south. Previously crown reduced. Remote inspection only.	No action required at time of survey.	20+	B1	RET
3075	A6	Sycamore	15.8	8.2	4.5	6	5.4	2.8 N	6	1	960					11.52	417	M	G	Off site tree. No access. Assumed to be a private specimen. Very stout lower stem. Crown bias to north. Previously crown reduced. Remote inspection only.	No action required at time of survey.	20+	B1	RET
3076		Elder	6	3.7	2.8	2.2	1.8	1 W	1	2	250	140				3.44	37	M	G	Twin stems from ground level. Principal branch structure and unions in satisfactory condition. Ivy previously severed. Tree of relatively low significance.	No action required at time of survey.	20+	C1	RET

FLAC Ref. No.	TPO Ref	Species	Ht. (m)	Crown Spread (m)				Ht. 1 st Br. (m)	Ht. Can. (m)	Stem Count	Stem Dia. (mm)					RPA Rad. (m)	RPA Area (m ²)	Life Stage Y-SM-EM-M-OM	Phys. Condition G-F-P-D	Structural condition & Notes	Management recommendations	Ret. Span <10, 10+ 20+, >40	QV Grade U-A-B-C	Proposal
				N	S	W	E				1 / mean	2	3	4	5									
3077		Ash	13	2	2	6	3.5	5 E	4	1	400					4.80	72	SM	F	Very heavily ivy clad, so much so that little more than branch endings can be seen. Specimen has relatively poor form resulting from close companion shelter and suppression.	No action required at time of survey.	20+	C1	RET
3078	A6	Sycamore	14.6	6	6	5	6	3 N	4	1	550					6.60	137	M	G	Very dense ivy impedes inspection and diameter measurement. Fairly symmetrical crown form. In apparent satisfactory condition.	No action required at time of survey.	20+	B1	RET
3079	A6	Hawthorn	7.3	4	4	4	4	2 N	0.5	1	400					4.80	72	M	G	A compact, domed crown form. Very dense ivy impedes inspection of structure and diameter measurement.	No action required at time of survey.	20+	B1	RET
3080		Ash	10.5	5	5.5	5	5.5	1.5 E	2	1	375					4.50	64	SM	G	Diameter measured at 1 metre due to stem morphology. Compact, low domed crown form. Branch structure satisfactory. No apparent significant defects.	No action required at time of survey.	>40	B1	RET
3081		Weeping willow	11.3	7.5	7	8.8	5	2.5 W	0	1	750					9.00	254	M	G	Off site tree. No access. Remote inspection only. Typical form and structure. Crown periphery hangs low to ground level at west.	No action required at time of survey.	>40	B1	RET
3082		Gean	6	3.7	3.8	3.7	3.6	1.5 W	1	4	170	160	150	140		3.73	44	SM	F	Multi-stemmed from 0.6 metres. Symmetrical crown. In satisfactory condition for medium term retention span. Tree of relatively low significance.	No action required at time of survey.	20+	B1	RET
3083		Holly	3.3	1	1	1	1	0.5 W	0.5	1	120					1.44	7	Y	G	Off site tree. No access. Remote inspection only. Compact, columnar form. Tree of relatively low significance.	No action required at time of survey.	>40	C1	RET
3084		Walnut	5	2.5	2.5	2.2	2.5	1.5 W	1.5	1	140					1.68	9	Y	G	Off site tree. No access. Remote inspection only. No apparent significant defects.	No action required at time of survey.	>40	C1	RET
3085		Norway spruce	4	1.5	1.5	1.5	1.5	1 W	1	1	100					1.20	5	Y	G	Off site tree. No access. Remote inspection only. No apparent significant defects.	No action required at time of survey.	>40	C1	RET
3086		Norway spruce	7.7	2.5	2.5	2.5	2.5	1 W	1	1	200					2.40	18	SM	G	Off site tree. No access. Remote inspection only. No apparent significant defects.	No action required at time of survey.	>40	B1	RET
3087		Walnut	12	3	6	6	6	2 S	1	3	340	300	200			5.95	111	EM	G	Off site tree on railway land. Remote inspection only. A multi-stemmed specimen that has had the principal trackside stem removed. Remaining structure appears in satisfactory condition currently.	No action required at time of survey.	>40	B1	RET
3088		Ash	15	2.5	7.5	8	7	4 S	1	2	480	380				7.35	170	EM	G	Off site tree on railway land. Remote inspection only. A twin-stemmed specimen that has had heavy trackside crown pruning. Remaining structure appears in satisfactory condition currently.	No action required at time of survey.	>40	B1	RET
3089		Sycamore	5.5	2	4	4	4	0.5 S	1	1	320					3.84	46	SM	G	Off site tree. No access. Remote inspection only. Principal stem has been cut down to around 1 metre. The lateral limbs to the south, west and east have been retained and these all encroach into the site. Low arboricultural or landscape merit.	No action required at time of survey.	20+	C1	RET
3090	A7	Common lime	21	4.5	7	5	7.3	4 S	2	1	1070					12.84	518	M	G	Stout, upright stem adjacent to gate pillar within curtilage of domestic garden. Previously subjected to heavy topping work at approximately 9 metres, now fully re-grown with typical upright scaffolds. Shares companion shelter with the adjacent specimen. Resident reports extant planning consent to re-pollard. High quality tree in prominent position.	No action required at time of survey.	>40	A1	RET
3091	A7	Common lime	22.5	7.2	7.1	7	7.6	9 N	4	1	970					11.64	425	M	G	Stout, upright stem adjacent to gate pillar within curtilage of domestic garden. Previously subjected to heavy topping work at approximately 9 metres, now fully re-grown with typical upright scaffolds. Shares companion shelter with the adjacent specimen. Resident reports extant planning consent to re-pollard. High quality tree in prominent position.	No action required at time of survey.	>40	A1	RET
3092	A7	Western red cedar	20	5	4	5	4	2 N	0	1	750					9.00	254	M	G	Within domestic garden. Typical form and structure. Unable to access stem to measure diameter due to fences and materials stacked around base. No apparent significant defects.	No action required at time of survey.	>40	B1	RET

Data for trees assessed as groups (TG)

FLAC Ref. No.	TPO Ref	Species	Tree Count	Ht. (m)	MRCS (m)	Ht. 1 st Br. (m)	Ht. Can. (m)	Specimen Stem Dia. (mm)	Specimen RPA Rad. (m)	Specimen RPA Area (m2)	Life Stage Y-SM-EM-M-OM	Phys. Condition G-F-P-D	Structural condition & Notes	Management recommendations	Ret. Span	QV Grade	Proposal
															<10, 10+ 20+, >40	U-A-B-C	
TG3001		Field maple	3	10	5.5	2	2.8	300	3.60	41	EM	G	Off site tree group. Remote inspection only. Linear tree group. Stems and principal structures in satisfactory condition.	No action required at time of survey.	>40	B1	RET
TG3002		Ash x2, sycamore x2	4	11	4	2 W	2.5	300	3.60	41	SM	G	Off site tree group. Remote inspection only. Linear tree group. Sycamores at south slightly larger than mean dimensions. Specimens previously topped, ashes beneath overhead cables.	No action required at time of survey.	20+	C2	RET
TG3003	A7	Ash x1, hornbeam x1, Austrian pine x4	6	23	8	4 N	2	680	8.16	209	M	G	Off site tree group. Remote inspection only. Specimens located to south of broad ditch. Hornbeam and ash both have canopies that hang low over the site boundary.	No action required at time of survey.	>40	B2	RET
TG3004		Hawthorn x50, ash x20	70	3.8	2	0.5	0.5	35	0.42	1	Y	G	A dense area of very homogenous saplings below the threshold for individual trees but included due to their mass grouping.	No action required at time of survey.	>40	C2	REM
TG3005		Hawthorn x4, sycamore x3, ash x2	9	7	4	2	1	110	1.32	5	Y	F	Dispersed group of scrubby specimens beneath north canopies of the principal trees.	No action required at time of survey.	20+	C2	REM
TG3006		Pear x2	2	5	3	1 N	2	200	2.40	18	SM	F	A pair of and unremarkable fruit trees.	No action required at time of survey.	>40	C2	REM
TG3007	A7	Austrian pine x11, sycamore x3	14	21.5	8	3 N	3	800	9.60	289	M	G	A linear tree group, the principal trees have dense ivy through their crown structure. Overall condition is good. Some moderate sized dead wood present. Varying degrees of understorey trees present along the group, generally of low quality due to suppression but in satisfactory condition. The principal trees form a high quality landscape feature and define the northern edge of the densely treed area.	No action required at time of survey.	>40	A2	RET
TG3008		Hawthorn x2, hazel x1, sycamore x5, ash x2	6	21.5	6.5	6 W	6	700	8.40	222	M	G	Off site tree group. No access. Remote inspection only. Linear arrangement. Re-grown pollards. Third from south heavily pruned. High quality tree group.	No action required at time of survey.	>40	A2	RET
TG3009	A7	Austrian pine	5	22	8	8 S	6	750	9.00	254	M	F	Linear tree group. Evenly spaced specimens, quite homogenous in appearance except for east tree, which has twin stems and a more open crown form. Forth tree from west has slightly impaired vitality seen as sparser foliage than companions.	No action required at time of survey.	20+	B2	RET
TG3010		Holly	4	6	2.6	1	0	180	2.16	15	SM	F	Dispersed tree group of scrubby and unremarkable understorey specimens. Low arboricultural and landscape merit.	No action required at time of survey.	20+	C2	RET
TG3011		Western red cedar x1, yew x3	4	5	3.5	1	0	350	4.20	55	EM	F	Linear tree group growing from mid-point of paved, sloped bank to pond. Limited future potential or appeal.	No action required at time of survey.	20+	C2	REM
TG3012		Holly x3, cherry laurel x2	5	8	4	1	0	350	4.20	55	SM	F	Dispersed tree group of scrubby and unremarkable specimens. Hollies at east. Low arboricultural and landscape merit.	No action required at time of survey.	20+	C2	RET
TG3013		Yew	3	12	8	3 N	1	650	7.80	191	M	G	Specimens share companion shelter and aerodynamic form but are not of notably high quality or merit despite being in satisfactory condition. Collectively sterilizing a large area due to dense shading.	No action required at time of survey.	>40	B2	RET
TG3014		Hornbeam	6	14	6.4	3 W	1	360	4.32	59	EM	G	Linear tree group, topo does not accurately record tree numbers or positions. In satisfactory overall condition. Understorey of shrubs, scrubby yew and western red cedar.	No action required at time of survey.	>40	B2	RET
TG3015	A7	Western red cedar x4, yew x2	6	8	3	2 S	2	225	2.70	23	SM	F	Two western red cedar at south-west to 14 metres and slender with it. Both collectively and individually unremarkable.	No action required at time of survey.	20+	C2	RET
TG3016		Scots pine x1, Austrian pine x1	2	17	5.4	6 S	3	600	7.20	163	EM	G	Pair share companion shelter and aerodynamic form. Good form and structure.	No action required at time of survey.	20+	B2	RET
TG3017	A7	Large leaved lime	14	28	6.5	8	5	600	7.20	163	M	G	Twin rows form feature avenue along existing track. Specimens have all re-grown from past heavy topping at approximately 8.5 metres. Very typical form from past management. Quite slender, upright crowns. Varying degrees of ivy present upon stems. Occasional moderate sized dead wood scattered through crowns. Second from east of north row has a basal cavity at north, third from west of south row has a smaller cavity at south. Overall a high quality landscape feature but should target occupancy increase then consideration must be given to crown stabilization pruning and ongoing management.	Girdle and remove ivy where present on stems from ground level to 2 metres. Re-assess if land use and occupancy level increases.	>40	A2	RET
TG3018		Crab apple x1, flowering cherry x1, Laburnum x1	3	6	3	2	2	240	2.88	26	M	F	Dispersed tree group. Centre cherry declining and laburnum at east suppressed. Overall a tree group of low quality and significance.	No action required at time of survey.	10+	C2	REM
TG3019		Beech x20, sycamore x2, hornbeam x2	24	12	5.5	2	2	200	2.40	18	SM	G	A linear tree group of understorey trees on south boundary. Likely to be of hedgerow origin but lack of management has enabled components to become grown out. Confers useful screen function.	No action required at time of survey.	>40	B2	RET
TG3020	A7	Sycamore x2, ash x1, Austrian pine x4	7	21	7	2	2	680	8.16	209	M	G	Partially off site tree group to south of ditch but comprising a part of the treed screen to the south of the site. Sycamore and ash on site at north of ditch. Very dense ivy impedes inspection. Confers useful screen function.	No action required at time of survey.	>40	B2	RET
TG3021	A7	Austrian pine x7, Scots pine x1, sycamore x3	11	2	6	6 N	5	600	7.20	163	M	G	The principal trees are the pines and these are located at the south of the ditch, off site. The understorey scrub (diameter 300mm av.), is located at north of the ditch. Collectively confers useful screen function.	No action required at time of survey.	>40	B2	RET
TG3022		Sycamore x7, large leaved lime x1, ash x2	10	16	6	1	1	450	5.40	92	EM	G	Close-set tree group close to south boundary of the site. Typical form and structure for the species. Individually unremarkable but collectively conferring useful screen function.	No action required at time of survey.	>40	B2	RET
TG3023		Hawthorn	8	6	3	1	0	300	3.60	41	M	G	Specimens located at west of stream. All rather scrubby and very similar to components of the hedgerow. In satisfactory overall condition.	No action required at time of survey.	>40	B2	RET

FLAC Ref. No.	TPO Ref	Species	Tree Count	Ht. (m)	MRCS (m)	Ht. 1 st Br. (m)	Ht. Can. (m)	Specimen Stem Dia. (mm)	Specimen RPA Rad. (m)	Specimen RPA Area (m2)	Life Stage Y-SM-EM-M-OM	Phys. Condition G-F-P-D	Structural condition & Notes	Management recommendations	Ret. Span	QV Grade	Proposal
															<10, 10+ 20+, >40	U-A-B-C	
TG3024		Ash x8, sycamore x8	16	20	8.5	4 S	4	600	7.20	163	M	G	Linear tree group. Ownership uncertain. Specimens share companion shelter and aerodynamic form. Upright stems. Dense ivy impedes inspection of principal branch structure. Overall in satisfactory condition and conferring useful screen function.	No action required at time of survey.	20+	B2	RET
TG3025		Hawthorn 35%, goat willow 30%, damson 35%	50	9	3	1	1	200	2.40	18	SM	G	Scrubby specimens to south of TG3024, providing very dense edge effect including shrub species such as elder, Buddleja, dog rose, brambles and ivy.	No action required at time of survey.	20+	C2	REM
TG3026	G14	Sycamore x6, ash x1	8	17	7	2.5 N	2.5	420	5.04	80	EM	G	Off site tree group beyond south boundary. Specimens share companion shelter and aerodynamic form. In satisfactory overall condition. Ash has larger stem diameter as noted on plan.	No action required at time of survey.	>40	B2	RET
TG3027	G14	Crack willow x4, sycamore x2	6	16.5	6	3	3	735	8.82	244	EM	F	Dispersed tree group. Set well back from boundary but included to enable shadow forecast. Remote inspection only.	No action required at time of survey.	20+	B2	RET
TG3028		Silver birch x3, Himalayan birch x1, purple plum x1, Norway maple cv. X1, rowan x1, Leyland cypress x1	8	11.5	3.8	2 N	2	300	3.60	41	EM	G	Off site linear tree group spanning the rear of three gardens. Assume stems 1 metre off boundary. In satisfactory overall condition.	No action required at time of survey.	20+	B2	RET
TG3029	A6	Hawthorn	2	4.5	2.5	2 W	1	350	4.20	55	M	F	A compact pair that are both very heavily suppressed and densely ivy clad. Tree group of relatively low significance.	No action required at time of survey.	20+	C2	RET
TG3030		Red horse chestnut	2	18	7	5N	4	950	11.40	408	M	F	Pair share companion shelter and aerodynamic form. Both are quite an age and size for the species. The north-east tree has a significant crown bias to the north-east due to a wolf limb; this appears rather vulnerable to failure and pruning is advised to reduce the likelihood. North-east tree also displays some dieback and presence of dead wood that may affect the highway at east. Ultimately likely to be limited by realistic retention span.	Reduce the crowns of both red horse chestnuts by 2 metres radially and remove dead wood >15mm in diameter. Shorten the over-extended limb at north-east of the north-east tree by approximately 4 metres to more closely match the mean crown spread.	10+	C2	RET
TG3031	G12, G13	Common lime	2	19	5.6	5 W	5	650	7.80	191	M	G	Off site tree group. No access. Remote inspection only. A similar pair at the west end of a short, mixed species avenue along driveway. Typical form and structure for the species. Occasional moderate dead wood observed.	Remove dead wood >15mm in diameter.	>40	B2	RET
TG3032		Elder	3	5	3	1.5	0.5	350	4.20	55	M	G	Dispersed tree group. Smallest specimen in the middle. In satisfactory overall condition but ultimately of low arboricultural or landscape merit.	No action required at time of survey.	20+	C2	RET
TG3033		Ash	2	11.4	4	2 W	2	700	8.40	222	M	F	An off site pair. Both are very heavily ivy clad preventing any inspection of structure. Both have unusual form so it is likely that past failures of lateral limbs have taken place. Limited future potential.	No action required at time of survey.	10+	C2	RET
TG3034		Ash	7	15.5	7.3	3 W	2	600	7.20	163	EM	G	Linear tree group. Generally specimens have upright stems and share companion shelter and aerodynamic form. Dense ivy throughout the group impedes inspection. Occasional moderate dead wood. In satisfactory overall condition.	No action required at time of survey.	>40	B2	RET

Data for trees assessed as woodland (WG)

FLAC Ref. No.	TPO Ref	Species	Area (m ²)	Ht. (m)	MRCs (m)	Ht. 1 st Br. (m)	Ht. Can. (m)	Specimen Stem Dia. (mm)	Specimen RPA Rad. (m)	Specimen RPA Area (m ²)	Life Stage Y-SM-EM-M-OM	Phys. Condition G-F-P-D	Structural condition & Notes	Management recommendations	Ret. Span <10, 10+ 20+, >40	QV Grade U-A-B-C	Proposal	Area retained (m ²)	Area retained %
WG3001		Ash 40%, white poplar 25%, sycamore 25%, large leaved lime 5%, walnut 5%	3485	19	7.5	2	2	600	7.20	163	M	G	Occupies and area between the site and the railway track. Most principal trees are heavily ivy clad, the lower layers of this woodland group are also thick with ivy. Locally dense understorey making access difficult (understorey comprises hawthorn and elder with spindle tree, dog rose, goat willow, and dogwood). Thicketting to south provides edge effect and ecotone.	Thin out principal high canopy trees by 15% to allow greater light penetration. Control ivy throughout woodland group to prevent excessive cladding to the detriment of the host trees. Initiate a staged cutting regime to edges to increase robustness of the ecotone.	>40	B2	RET	3485	100.0

Data for hedges (H)

FLAC Ref. No.	Species	Ht. (m)	Mean Width (m)	Length (m)	Mean Stem Dia. (mm)	Life Stage Y-SM-EM-M-OM	Phys. Condition G-F-P-D	Structural condition & Notes	Management recommendations	Ret. Span <10, 10+ 20+, >40	QV Grade U-A-B-C	Proposal
H3001	Beech	2.5	1.5	68	90	SM	G	Boundary of domestic garden. Clipped at west face and top edge. Confers useful screen function.	No action required at time of survey.	>40	B2	RET
H3002	Beech	2.2	1.8	76	80	SM	G	Boundary of domestic garden. Clipped. Confers useful screen function.	No action required at time of survey.	>40	B2	RET
H3003	Beech	2	2	18	70	SM	G	Boundary of domestic garden. Less frequently clipped than adjacent beech hedge.. Confers useful screen function.	No action required at time of survey.	>40	B2	RET

Data for hedgerows (HR)

FLAC Ref. No.	Species	Ht. (m)	Mean Width (m)	Length (m)	Mean Stem Dia. (mm)	Life Stage Y-SM-EM-M-OM	Phys. Condition G-F-P-D	Structural condition & Notes	Management recommendations	Ret. Span <10, 10+ 20+, >40	QV Grade U-A-B-C	Proposal	Length retained (m)	Percentage retained %
HR3001	Hawthorn 50%, dogwood 15%, elder 25%, sycamore 5%, ash 5%	6	7	130	400	M	F	Unmanaged hedgerow between fields is becoming grown out. Hedgerow plants present on both sides of stream but mostly on east side. Some small trees and saplings present. Could be rejuvenated. Confers useful screen function.	No action required at time of survey.	>40	B2	PRET	110	84.6
HR3002	Blackthorn 25%, hawthorn 25%, ash 8%, dog rose 7%, elder 35%	7	7	200	300	EM	G	Located at north boundary with railway. North side of hedgerow appears to be flailed on occasion. Very dense screen with thicketting brambles to south.	No action required at time of survey.	>40	B2	RET	200	100.0



NEW PATH TO BE FORMED AS NO-DIG SURFACE TO SAFEGUARD RPA OF HIGH QUALITY TREES

TREE REMOVAL WITHIN ORNAMENTAL GARDEN IS INTENDED AS AMENITY ENHANCEMENT (VARIOUSLY COMPRISING GROUP THINNINGS AND GLADE CREATION)

MAZARD TREE
 This tree has large branches in the garden and is a potential safety hazard. It is recommended to be removed. The tree is located in the garden area, near the building footprint.

<p>FORBES- LAIRD ARBICULTURAL CONSULTANCY</p>		<p>Client Castlefield International Ltd</p> <p>Instruction Teversham Road, Fulbourn</p> <p>Instruction ref. CC34-1018</p> <p>Dwg title Tree Survey, Retention / Removal</p> <p>Dwg no. 34-1018.02-A</p> <p>Rev A Date 04.09.14</p> <p>Scale 1:500 @ A0</p>	<p>Category A ● High</p> <p>Category B ● Moderate</p> <p>Category C ● Low</p> <p>Category U ● Unretainable</p> <p>● Trees to be retained black = topo yellow = aerial</p> <p>○ Trees for removal to facilitate development</p> <p>○ Trees for removal for arboricultural reasons</p> <p>○ Indicative tree root protection area</p>	<p>Notes</p> <p>Do not scale off dwg - refer to tree survey data schedule for crown spreads etc</p> <p>Tree / woodland group outlines follow the topo survey or aerial imagery, as applicable</p> <p>All tree positions are indicative absent a topo survey</p> <p>Any trees omitted from topo survey are located indicatively</p> <p>RPA for hedges or hedgerows: - 3m from the centreline, or - half the height, or - width + 2m each side ...whichever is the greater</p> <p>Drawn to N unless otherwise indicated</p>
<p>Dendron House Barford Road, Blunham BEDFORD, MK44 3RD T 44(0)1767 641648 / F 44(0)1767 660330 enquiries@flac.uk.com www.flac.uk.com</p>				