

Arboricultural Survey to BS5837:2012

**Patrick Casey** 

Land Northwest of Mays Lane

Arkley

Barnet

London

**EN5 2AH** 

30 April 2024

Chris Poplett Dip Arb L4 MArborA



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This report has been released electronically and the appendices have been included at the end of this report. Plans are included as AO, A1, A2 or A3 as appropriate.

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## 1. Introduction

Arbtech Consulting Limited (Arbtech) received written instruction on 24 April 2024 from Patrick Casey to attend; Land Northwest of Mays Lane, Arkley, Barnet, London, EN5 2AH grid reference, TQ 23121 95175 (site) to undertake an arboricultural survey to BS5837:2012 guidance to assess trees, hedges and major shrub groups growing on and within influencing distance of the site and to produce a Schedule of Trees and a Tree Constraints Plan.

I am Chris Poplett, an arboricultural consultant at Arbtech Consulting Ltd. I undertook the tree survey on 29 April 2024 and subsequently have produced this summary of my findings.

Chris Poplett has accumulated experience within the arboricultural industry since 1996. Qualified to Level 4 Diploma and has Lantra professional tree inspector certification. Chris Poplett has been awarded professional membership of the Arboricultural association and is a certified soil food web laboratory technician.

The advice below and appended is underwritten by our Professional Indemnity insurance for the business practice of Arboricultural Consultancy in the sum of one million Pounds Sterling in each and every claim.

Table 1: Documents referred to.

Document	Reference No.
Survey base drawing	gospelhall barnet-TINon-3DEXP(1)
LPA pre-app comments	N/A
British Standard 5837:2012	"BS5837"
Tree Survey Schedule	Arbtech TS 01
Tree Constraints Plan	Arbtech TCP 01

# 2. Survey

Survey: An arboricultural survey to BS5837 of all trees within impacting distance of the site was undertaken by Chris Poplett on 29 April 2024.

During the survey I categorised the trees using "Table 1 – Cascade chart for tree quality assessment" of the BS5837:2012 (see Appendix 1).

A total of 24 (twenty-four) individual trees and 5 (five) groups of trees were surveyed. Details for each of the trees surveyed are provided in the Schedule of Trees (see Appendix 2).



**Table 2:** Documents upon which this tree survey has been based.

Document	Originator	Reference Number	Title
Survey Base		gospelhall barnet-	Topographical
Drawing	-	TINon-3DEXP(1)	Survey

Limitations: The survey was made at ground level using visual observation only. Detailed examinations, such as climbing inspections and advanced decay detection equipment were not employed, though may form part of the survey's management recommendations. Measurements were taken using specialist tapes, laser, and GPS devices. Where this was not possible, measurements are estimated.

Scope: Pre-development tree surveys make arboricultural management recommendations based exclusively upon the individual tree or group of trees condition relative to their present context (i.e. not in relation to the proposed development).

Legal Status: No statutory protection check has been performed. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order ("TPO"), and those trees without. This is principally because a detailed planning consent overrides any TPO protection. Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.

#### **Site description**

Open flat field bordered with mixed age class native woodland trees. The field is currently used for grazing horses. Access is via a traditional stock gate off Mays Lane. A land drain runs along the north and western boundaries.

<sup>\*</sup> For more information on the surveyed trees please see Arbtech Consulting Ltd, Tree Survey Schedule (Appendix 1), Tree Survey Report and Tree Constraints Plan.



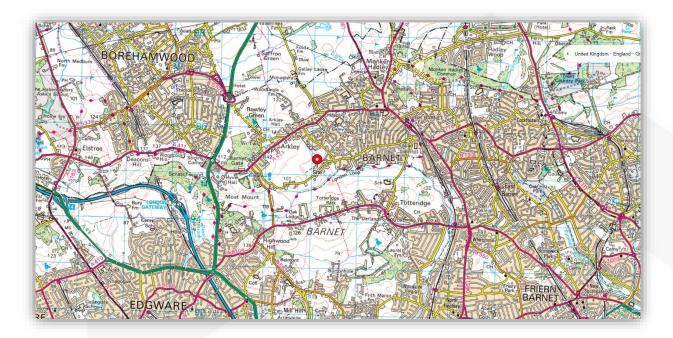


Figure 1: OS Map (Bing Maps)



Figure 2: Aerial Image of site with approximate red line boundary (Google Earth)



#### **Proposed scheme**

A material change of use for stationing of caravans for residential use with hard standing and dayrooms ancillary to that use.

It is likely that arboricultural impacts can be addressed with arboricultural methodology or minor amendments to the proposal.





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# 3. BS5837:2012 Scope

This standard recognises that there can be problems for development close to existing trees which are to be retained, and of planting trees close to existing structures. This standard sets out to assist those concerned with trees, in relation to construction, to form balanced judgements. It does not set out to put arguments for or against development, or for the removal or retention of trees. Where development, including demolition, is to occur, the standard provides guidance on how to decide which trees are appropriate for retention, on the means of protecting these trees during development, including demolition and construction work, and on the means of incorporating trees into the developed landscape.

# 4. Methodology

The methodology used to assess the trees was the British Standard 5837:2012 'Trees in Relation to Construction' tree survey method. The aim of the survey is to establish which trees are moderate and good quality; suitable for retention and justifying protection. And which trees are low or poor quality; either undesirable or unsuitable to retain and protect.

The tree survey includes all trees included in the land survey red line boundary plan, as well as any that may have been missed, and it should categorize trees or groups of trees, including woodlands for their quality and value within the existing context, in a transparent, understandable, and systematic way. Where the arboriculturist has deemed it appropriate, the trees have been tagged with small metal or plastic tags, placed as high as is convenient on the stem of each tree.

Whilst master plan proposals for the development of the site might be available, the trees have been surveyed without taking these into consideration. All detailed design work on site layout should take into consideration the results of the tree survey (and the TCP).

Trees forming groups and areas of woodland (including orchards, wood pasture and historic parkland) are identified and considered as groups where the arboriculturist has determined that this is appropriate, particularly where they contain a variety of species and age classes that could aid long-term management. It is often expedient to assess the quality and value of such groups of trees as a whole, rather than as individuals. However, an assessment of individuals within any group has been undertaken if they are open-grown or if there is a need to differentiate between them.

The quality and value of each tree or group of trees has been recorded by allocating it to one of the four categories: A, B, C, or U (highest to lowest quality respectively). The categories are differentiated on the tree survey plan by colour, or by suffixing the category adjacent to the tree identification number on the TCP.



The survey schedule lists all the trees or groups of trees. The following information is also provided:

- a) reference number (to be recorded on the tree survey plan);
- b) species (common or scientific names);
- c) height in meters (m);
- d) stem diameter in millimetres (mm) at 1.5m above adjacent ground level or immediately above the root flare for multi-stemmed trees;
- e) branch spread in meters taken at the four cardinal compass points;
- f) height of crown clearance above adjacent ground level in meters (m);
- g) age class (newly planted, young, semi-mature, early mature, mature, over mature);
- h) physiological condition (e.g. good, fair, poor, decline and dead);
- i) structural condition (e.g. good, fair, poor or not visible);
- j) comment about the tree, its location and preliminary management recommendations, including further investigation of suspected defects that require more detailed assessment and potential for wildlife habitat;
- k) The retention category referring to the quality and useful contribution in years;  $\mathbf{U} = <10 \text{yrs}$ ;  $\mathbf{A} = >40 \text{yrs}$ ;  $\mathbf{B} = >20 \text{yrs}$ ;  $\mathbf{C} = >10 \text{yrs}$ . The retention subcategory referring to the type of amenity;  $\mathbf{1} = \text{Arboricultural}$ ;  $\mathbf{2} = \text{Landscape}$ ;  $\mathbf{3} = \text{Cultural including conservation}$  (see Appendix 1 Cascade chart for tree quality assessment).



### 5. Definitions

#### Arboriculturist

An arboriculturist (or arboricultural consultant) is a person who has, through relevant education, training, and experience, gained recognized qualifications and expertise in the field of trees in relation to construction.

#### **Tree Survey**

A tree survey should be undertaken by an arboriculturist and should record information about the trees on a site independently of and prior to any specific design for development. As a subsequent task, and with reference to a design or potential design, the results of the survey should be included in the preparation of a tree constraints plan, which should be used to assist with site layout design.

#### Tree Constraints Plan

A TCP is plan, typically delivered as an AutoCAD drawing (.DWG file format), prepared by an arboriculturist for the purposes of layout design showing the root protection area and representing the effect that the mature height and spread of retained trees will have on layouts through shade, dominance, etc.

#### **Root Protection Area**

An RPA is a layout design tool indicating the area surrounding a tree that contains sufficient rooting volume to ensure the survival of the tree, shown in plan form in m<sup>2</sup>.

#### Construction Exclusion Zone (also termed Tree Protection Zone)

A construction exclusion or tree protection zone is an area based on the RPA (in m²), identified by an arboriculturist, to be protected during development, including demolition and construction work, by the use of barriers and/or ground protection fit for purpose to ensure the successful long-term retention of a tree.

#### Arboricultural Impact Assessment (AIA)

This is a study, undertaken by an arboriculturist, to identify, evaluate and possibly mitigate the extent of direct and indirect impacts on existing trees that may arise as a result of the implementation of any site layout proposal.

#### Tree Protection Plan (TPP)

A TPP is plan, typically delivered as an AutoCAD drawing (.DWG file format), prepared by an arboriculturist showing the finalized layout proposals, tree retention and tree and landscape protection measures detailed within the arboricultural method statement, which can be shown graphically.



### Arboricultural Method Statement (AMS)

This is a methodology for the implementation of any aspect of development that has the potential to result in loss of or damage to a tree. The AMS is likely to include details of an on-site tree protection monitoring regime.

#### 6. Recommendations

With the benefit of making an assessment of your planning proposals, I make the following recommendation to ensure that there are no irrevocable issues to the proposed retained trees and so that no conditions relating to arboriculture are attached to any planning consent secured; obtain an arboricultural report to include:

- a) An arboricultural impact assessment (AIA).
- b) An arboricultural method statement (AMS).
- c) A tree protection plan drawing (TPP).

#### 7. Limitations

Trees were inspected from using visual observation from ground level only. Trees were not climbed or inspected below ground level. Inaccessible trees will have best estimates made about the location, physical dimensions, and characteristics. Trees have been grouped where BS5837 guides us that it is expedient to do so. Trees have been excluded from the survey if they are found by us to be sufficiently far away from the proposed developable area or if they are outside of the red line boundary plan showing the expectations of our client for the extent of the survey. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order ("TPO"), and those trees without. This is principally because a detailed planning consent overrides any TPO protection. Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.

This report does not constitute a tree safety survey, nor does it fulfil the stewards/landowners Duty of Care in relation to tree risk.



# 8. Appendices

The following documents were released to the Client as appendices to this report:

- Survey Schedule (.PDF)
- Tree Constraints Plan drawing (.DWG & .PDF)

If you require clarification of information contained herein, please do not hesitate to contact us via 01244 661170.

Yours Sincerely,

C Poplett

Chris Poplett Dip Arb L4 MArborA

**Arboricultural Consultant** 

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Appendix 1: Table 1 Cascade chart for tree quality assessment

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BS5837:2012 Trees in relation to design, d	demolition and construction – Recommendations
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Table 1	Cascade chart for tree quality assessment											
Category and definition	Criteria (including subcategories when appro	priate		Identification on plan								
Trees unsuitable for retention (se	ee Note)											
*Trees that have 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 have 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 that have 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.  *NOTE Category U trees can have existing or potential conservation value which might be desirable to preserve; see 4.5.7.												
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation									
Trees to be considered for retent	tion											
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 dominate 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 woodpasture).	Light green								
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 remedial defects, including unsympathetic management and storm damage), such that they are unlikely to be suitable for retention of 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.	Mid blue								
Category C  Trees of low quality with an estimated remaining expectancy of at least 10 years, or young trees with a stem diameter below 150mm.	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 value.	Trees with no material conservation or other cultural value.	Grey								





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## **BS5837:2012 Tree Survey**

Client: Mr Patrick Casey

Project: Land Northwest of Mays Lane Arkley Barnet London EN52AH

Survey Date: 29/04/2024 Surveyor: Chris Poplett



# **Arbtech consulting Itd**

Unit 3 Well House Barns

Chester Road

Chester Cheshire

CH4 0DH

Phone: 01244661170

Tree and Tag No		Hght		Stems	Cı	own			RP	Phys	Structural	Preliminary Recommendations	Cat
Species		(m)	No	Ø (mm)	Spread (m)	Cle (m	11.	Age	A (m²) R (m)	Condition	Condition	Survey Comment	ERC
G01												Estimated Me	asurements
Common Ash		16	1	410	N	6	4		A: 76.1	Good	C: Good		<b>B.2</b>
Fraxinus excelsior					E S W	6 6 6	4 4 4		R: 4.92		S: Not visible B: Not visible	Group comprising of approximately 12 individual trees. Hawthorn and blackthorn understory restricting observations of stems and base. Naturally occurring dead wood within canopy up to 150mm diameter X 3m length. Land drain runs along the south western boundary of the group. Dimensions recorded are the largest represented within the group.	20+ yrs
G02												Estimated Me	asurements
Common Ash		16	1	410	N	6	4	М	A: 76.1	Good	C: Good		<b>B.2</b>
Fraxinus excelsior					E S W	6 6 6	4 4 4		R: 4.92		S: Not visible B: Not visible	Group comprising of approximately 12 individual trees. Hawthorn and blackthorn understory restricting observations of stems and base. Naturally occurring dead wood within canopy up to 150mm diameter X 3m. Land drain runs along the south western boundary of the group. Dimensions recorded are the largest represented within the group.	20+ yrs
G03												Estimated Me	asurements
Various		10	1	400	N	4	0	EM	A: 72.4	Good	C: Good		<b>B.2</b>
see comments for details					E S W	4 4 4	0 0 0		R: 4.8		S: Not visible B: Not visible	Mixed species group comprising of common oak, ash, hawthorn and blackthorn. Vegetation obscuring observations of stems and base. Dimensions recorded are the largest represented within the group.	20+ yrs
Age Classifications:	N Y SM	Newly plant Young Semi-matu		EM Early M Mate			Co	ondit	ion: C S	Stem	a	Stems: Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 def ERC: Estimated Remaining Contributio	finition

Tree and Tag No		Hght		Stems		Crow				RP	Phys		Structural	Preliminary Recommendations	Cat
Species		(m)	No	, ,	Ø Sprea nm) (m)		Clear (m)		Age	A (m²) R (m)	Conditi	- 1	Condition	Survey Comment	ERC
G04														Estimated Mea:	surements
Various		10	1	200	) N	3		0 9	SM	A: 18.1	Good	(	C: Good		C.2
see comments for details	comments for details  E 3 S 3 W 3		0 0 0		R: 2.4			S: Not visible B: Not visible	Mixed species group comprising of common oak, ash,	20+ yrs					
G05														Estimated Mea	surements
Various		5	1	80	N	2		0	М	A: 2.9	Good	(	C: Good		C.2
see comments for details					Е	2		0		R: 0.96		9	S: Not visible	Mixed species group comprising of predominantly common	20+ yrs
					S W	2		0				E	B: Not visible	blackthorn with hawthorn. Vegetation obscuring observations of stems and base. Dimensions recorded are the largest represented within the group.	20 : 7:0
T01														Estimated Mea	surements
Silver Birch		7	1	250	) N	2		2 I	EM	A: 28.3	Good	(	C: Good		C.1
Betula pendula					Е	2		2		R: 3		9	S: Not visible	Off site tree. 2m high boundary hedge obscuring observations	20+ yrs
					S	2		2				E	B: Not visible	of stem and base. No significant features have been observed.	
					W	2		2						•	
T02														Estimated Mea:	surements
Silver Birch		5	1	200	) N	1		2 I	EM	A: 18.1	Good	(	C: Good		C.1
Betula pendula					Е	1		2		R: 2.4		9	S: Not visible	Off site tree. 2m high boundary hedge obscuring observations	20+ yrs
					S	1		2				E	B: Not visible	of stem and base. No significant features have been observed.	
					W	1		2						-	
T03														Estimated Mea:	surements
Silver Birch		7	1	250	) N	1		2 I	EM	A: 28.3	Good	(	C: Good		C.1
Betula pendula					Е	1		2		R: 3		9	S: Not visible	Off site tree. 2m high boundary hedge obscuring observations	20+ yrs
					S	1		2				E	B: Not visible	of stem and base. No significant features have been observed.	, ,
					W	1		2							
T04														Estimated Mea:	surements
Silver Birch		7	1	250	) N	2		2 I	EM	A: 28.3	Good	(	C: Good		C.1
Betula pendula					Е	2		2		R: 3		9	S: Not visible	Off site tree. 2m high boundary hedge obscuring observations	20+ yrs
					S	2		2				E	B: Not visible	of stem and base. No significant features have been observed.	_0.,10
					W	2		2						<u> </u>	
Age Classifications:	N Y SM	Newly plant Young Semi-matur		М	Early Mature Mature Over Mature			Co	nditi	5	C Crown S Stem B Basal			Stems: Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definements.  ERC: Estimated Remaining Contributio	nition

Tree and Tag No		Hght	S	tems		Crow	n Clear		RP	h Phys	Structural	Preliminary Recommendations	
Species		(m)	No	Ø (mm)		Spread (m)		Age	A (m²) R (m)	Condition		Survey Comment	Cat ERC
T05												Estimated Me	asurements
Common Oak		18	1	810	N	10	4	М	A: 296.9	Good	C: Good		B.1
Quercus robur					E	10	4		R: 9.72		S: Not visible	Off site tree. Boundary hedge obscuring observations of stem	20+ yrs
					S	10	4				B: Not visible	and base. No significant features have been observed.	
					W	10	4					,	
T06													
Common Oak		12	1	620	N	9	2	М	A: 173.9	Good	C: Good		<b>B.1</b>
Quercus robur					Е	9	2		R: 7.44		S: Good	Naturally occurring dead wood within crown up to 200mm	20+ yrs
					S	9	2				B: Good	diameter X 4m length. Land drain runs across root zone	•
					W	9	2					500mm from main stem on north western aspect.	
T07												Estimated Me	asurements
Common Oak		15	1	620	N	9	2	М	A: 173.9	Good	C: Good		<b>B.1</b>
Quercus robur					Е	9	2		R: 7.44		S: Not visible	Off site tree. Vegetation obscuring observations of stems and	20+ yrs
					S	9	2				B: Not visible	base. No significant features have been observed.	
					W	9	2					•	
T08												Estimated Me	asurements
Common Oak		12	1	700	N	10	2	М	A: 221.7	Good	C: Good		<b>B.1</b>
Quercus robur					E	9	2		R: 8.4		S: Not visible	Naturally occurring dead wood within crown up to 150mm	20+ yrs
					S	9	2				B: Not visible	diameter X 2m length. Land drain runs across root zone	
					W	9	2					500mm from main stem on north western aspect. Access and	
												understory woodland shrubs obscuring observations of stem and base.	
T09												Estimated Me	asurements
Common Oak		10	1	320	N	7	2	М	A: 46.3	Good	C: Good		B.1
Quercus robur					Е	4	2		R: 3.83		S: Not visible	A	20+ yrs
					S	2	2				B: Not visible	Asymmetrical crown shape due to presence of partner trees.  Land drain runs across root zone 200mm from main stem on	20+ yis
					W	7	2					north western aspect. Access restricting accurate observations	
												of stem and base.	
Age Classifications:	N	Newly plante	ed	EM Early	Mature		(	Cond	tion: C	Crown		Stems: Ø Diameter	
		Young		M Matu					S			(Eq) Equivalent stem diameter using BS5837:2012 def	inition
	SM	Semi-mature	е	OM Over	Mature				В	Basal are	а	ERC: Estimated Remaining Contributio	

Tree and Tag No		Umbt	S	Stems		Crown			RP	Phys	Structural	Preliminary Recommendations	
Species		Hght (m)	No	Ø (mm)	Sprea (m)		Clear (m)	Age	A (m²) R (m)	Condition	Condition	Survey Comment	Cat ERC
T10													
Common Oak		12	1	1130	N	10	4	М	A: 577.7	Good	C: Good		<b>A.1</b>
Quercus robur					Е	10	4		R: 13.56		S: Good	Naturally occurring dead wood within crown up to 200mm	40+ yrs
					S	10	4				B: Good	diameter X 4m length. Land drain runs across root zone	,
					W	10	4					500mm from main stem on north western aspect. Ivy clad stem from ground level up to 9m obscuring observations of stem and base.	
T11												Estimated Me	asurements
Common Ash		12	1	400	N	5	3	М	A: 72.4	Good	C: Good		B.1
Fraxinus excelsior					Е	5	3		R: 4.8		S: Not visible	Access restricting accurate observations of stem and base.	20+ yrs
					S	5	3				B: Not visible	Situated on south western bank of land drain.	
					W	5	3						
T12													
Common Oak		12	1	400	N	6	1	М	A: 72.4	Good	C: Good		<b>B.1</b>
Quercus robur					Е	6	1		R: 4.8		S: Not visible	Stem partially submerged on south western bank of land drain.	20+ yrs
					S	4	4				B: Not visible	Stern partially submerged on south western bank or land drain.	, ,
					W	4	4						
T13												Estimated Me	asurements
Common Ash		15	1	410	N	4	3	М	A: 76.1	Good	C: Good		<b>B.1</b>
Fraxinus excelsior					Е	4	3		R: 4.92		S: Not visible	Access restricting accurate observations of stem and base.	20+ yrs
					S	4	3				B: Not visible	Situated on north eastern bank of land drain. Ivy clad stem	
					W	4	3					from base up to 5m.	
T14												Estimated Me	asurements
Common Oak		8	1	400	N	6	4	М	A: 72.4	Good	C: Good		B.1
Quercus robur					Е	6	4		R: 4.8		S: Not visible	Off site tree. Access restricting accurate observations of stem	20+ yrs
					S	5	2				B: Not visible	and base. No significant features have been observed.	
					W	5	2						
Age Classifications:	N	Newly plant	ed	EM Early	Mature			Condi	tion: C	Crown		Stems: Ø Diameter	
	Υ	Young		M Matu					S	Stem		(Eq) Equivalent stem diameter using BS5837:2012 det	inition
	SM	Semi-matur	e	OM Over	Mature				В	Basal are	а	ERC: Estimated Remaining Contributio	

Tree and Tag No		Hght	-	Stems			Crown				RP	Phys	Structural	Preliminary Recommendations	Cat ERC
Species		(m)	No	, ,	Ø im)	Sprea (m)		Clear (m)	A	ge	A (m²) R (m)	Condition	Condition	Survey Comment	
T15															
Common Oak		9	1	550	)	N	3	4	1 M	1	A: 136.9	Poor	C: Good		U
Quercus robur						Е	3	4	1		R: 6.6		S: Not visible	Die back to upper crown. Major dead wood up to 200mm	<10 yrs
						S	4	4	1				B: Not visible	diameter X 4m length. Tree presenting approximately 20% of	, ,
						W	4	4	1					expected leaf / bud density for species and age class. Access restricting accurate observations of stem and base.	
T16															
Common Oak		16	1	1130	)	N	10	4	1 M	1	A: 577.7	Good	C: Good		<b>A.1</b>
Quercus robur						Е	10	4	4		R: 13.56		S: Not visible	Naturally occurring dead wood within crown up to 150mm	40+ yrs
						S	10		2				B: Not visible	diameter X 2m length. Ivy clad stem up to 10m. Access and	, -
						W	10		2					ground vegetation obscuring accurate observations of stem and base.	
T17															
Common Ash		5	1	160	)	N	2	3	SI SI	М	A: 11.6	Good	C: Good		C.1
Fraxinus excelsior						Е	2	3	3		R: 1.92		S: Fair	Stem trapped within five bar gate. Stem partially concealing	20+ yrs
						S	2		3				B: Good	gate bar at 1m from ground level on western aspect.	, -
						W	3	3	3						
T18															
Common Ash		7	3	391	(Eq)	N	3	4	1 EI	М	A: 69	Good	C: Good		B.1
Fraxinus excelsior						Е	5	4	1		R: 4.68		S: Not visible	Ivy clad stem from base up to 5m restricting observations of	20+ yrs
						S	4	4	1				B: Not visible	stems and base. No significant features have been observed.	•
						W	4	4	1						
T19														Estimated Meas	surement
Common Oak		14	1	880	)	N	7	3	3 M	1	A: 350.4	Good	C: Good		<b>B.1</b>
Quercus robur						Е	7	3	3		R: 10.56		S: Not visible	Naturally occurring dead wood within crown up to 100mm	20+ yrs
						S	9	4	•				B: Not visible	diameter X 2m length. Ivy clad stem and main branch	
						W	9	4	1					structure up to 10m restricting observations of stem and base.	
T20														Estimated Meas	surement
Common Oak		17	1	850	)	N	10	3	3 M	1	A: 326.9	Good	C: Good		<b>B.1</b>
Quercus robur						Е	10	3	3		R: 10.2		S: Not visible	Naturally occurring dead wood within crown up to 100mm	20+ yrs
						S	10	4	1				B: Not visible	diameter X 2m length. Ivy clad stem and main branch	,
						W	10	4	1					structure up to 10m restricting observations of stem and base.	
Age Classifications:	N	Newly plante	ed	EM I	Early N	/lature			Con	ditio	on: C	Crown		Stems: Ø Diameter	
	Υ	Young			Mature						S	Stem		(Eq) Equivalent stem diameter using BS5837:2012 defin	ition
	SM	Semi-mature	e	OM (	Over N	lature					В	Basal area	a	ERC: Estimated Remaining Contributio	

Tree and Tag No		Hght	S	tems	Crown				RP	Phys	Structural	Preliminary Recommendations	Cat
Species		(m)	No	Ø (mm)	Spread (m)	Clea (m)		Age	A (m²) R (m)	Condition	Condition	Survey Comment	ERC
T21													
Common Hornbeam		5	1	180	N	3	2 E	ΞM	A: 14.7	Good	C: Good		C.1
Carpinus betulus					Е	3	2		R: 2.16		S: Good	No significant features have been observed.	20+ yrs
					S	3	2				B: Good	No significant reactives have been observed.	_0 . ,
					W	3	2						
T22													
Common Hawthorn		4	1	80	N	2	0	М	A: 2.9	Good	C: Good		C.1
Crataegus monogyna					E	2	0		R: 0.96		S: Good	No significant features have been observed.	20+ yrs
					S	2	0				B: Good	No significant reactives have been observed.	
					W	2	0						
T23													
Common Hawthorn		4	1	80	N	2	0	М	A: 2.9	Good	C: Good		C.1
Crataegus monogyna					Е	2	0		R: 0.96		S: Good	No significant features have been observed.	20+ yrs
					S	2	0				B: Good	No significant reactives have been observed.	
					W	2	0						
T24													
Common Hawthorn		4	1	80	N	2	0	М	A: 2.9	Good	C: Good		C.1
Crataegus monogyna					Е	2	0		R: 0.96		S: Good	No significant features have been observed.	20+ yrs
					S	2	0				B: Good	No significant reactives have been observed.	
					W	2	0						
Age Classifications:	N	Newly plant	ed		Mature		Co	nditio				Stems: Ø Diameter	
	Y	Young		M Matu					S	Stem		(Eq) Equivalent stem diameter using BS5837:2012 d	etinition
	SM	Semi-matur	е	OM Over	Mature				В	Basal area	l	ERC: Estimated Remaining Contributio	



Appendix 3: Tree Constraints Plan

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### 9. Document Production Record

Document number	Editor	Signature	Position	Issue number	Date
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