BS5837:2012
Trees in relation to design, demolition and construction – Recommendations

Tree Survey

Land at Jays Meadow,

Callow Hill,

Bewdley,

Worcestershire

DY14 9XW

7 August 2021

Author: Charlie Moore BSc (Hons)

Introduction

Arbtech Consulting Limited (Arbtech) received written instruction on 4th August 2021 by All Weather Developments to attend Land at Jays Meadow, Callow Hill, Bewdley, Worcestershire DY14 9XW; grid reference, SO 74566 73734 (site) to undertake an arboricultural survey a 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, tree constraints plan, arboricultural impact assessment , arboricultural method statement and tree protection plan.

I am Charlie Moore, an arboricultural surveyor at Arbtech Consulting Ltd. I hold a BSc honors in Arboriculture and Urban Forestry and a BTEC Level 3 Extended Diploma in Countryside Management and have professional experience in arboriculture spanning 3 years.

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	Promap-1340418-1440372-720-0
LPA pre-app comments	N/A
British Standard 5837:2012	“BS5837”
Tree Survey Schedule	Arbtech TS 01
Tree Constraints Plan	Arbtech TCP 01

Tree Survey

Survey: An arboricultural survey to BS5837 of all trees within impacting distance of the site was undertaken by Charlie Moore on the 6th August 2021.

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 69No. individual trees, and 17No. groups of trees, 8No. hedges 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
OS Tile	-	Promap-1340418-1440372-720-0	File Name - Promap-1340418-1440372-720-0

Limitations: The survey was made at ground level using visual observation only. Detailed examinations, such as climbing inspections and 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.

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

Site description

The site is situated to the south of the A456, surrounded by open arable farmland to the east. It features a row of urban dwellings to the north, between the site and the road, and a large property with an open amenity grassland area to the immediate south. The site is situated to the general south west of the Wyre Forest (Managed by the Forestry Commission). The site itself contains large areas of amenity grassland, and a woodland to the northern boundary (backing on to the urban dwellings). There is currently a process of putting a Tree Preservation Order (TPO) on these specimens. The back garden consists of several amenity shrubs and beds, with a few significant specimens present, and is lined on all sides by a hedge of various species and heights.

Figure 1: OS Map (Bing Maps)

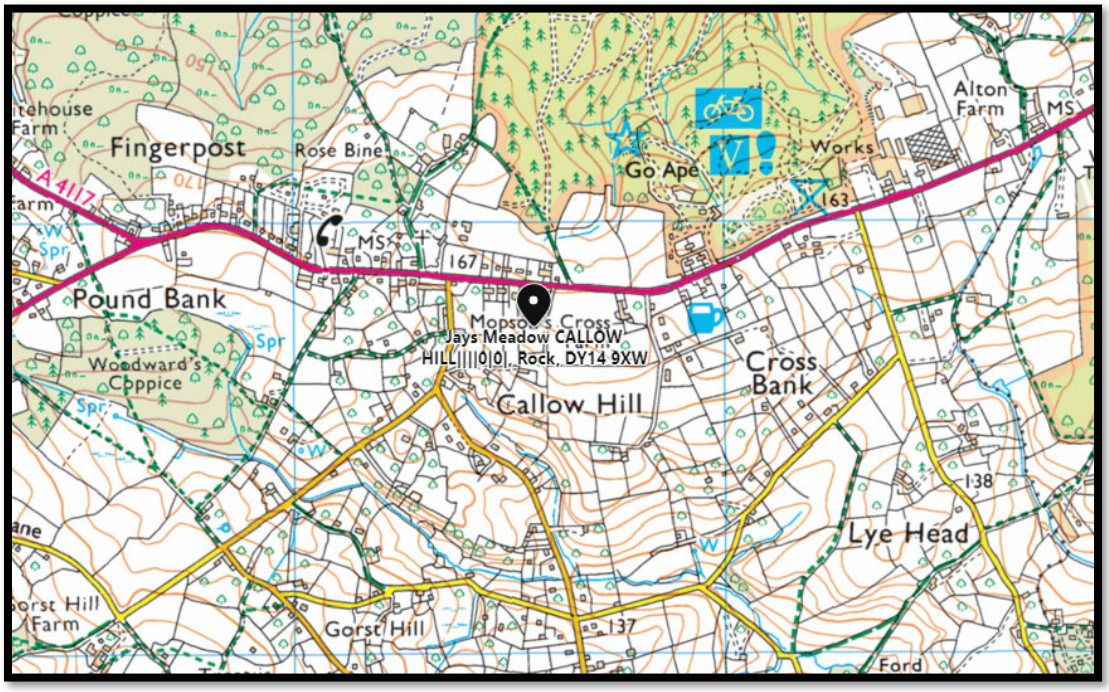

Figure 2: Aerial Image of site (Bing Maps)

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

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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.

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:

I. reference number (to be recorded on the tree survey plan);
II. species (common or scientific names);
III. height in meters (m);
IV. stem diameter in millimeters (mm) at 1.5 m above adjacent ground level or immediately above the root flare for multi-stemmed trees;
V. branch spread in meters taken at the four cardinal compass points;
VI. height of crown clearance above adjacent ground level in meters (m);
VII. age class (Newly planted, Young, Semi-mature, Early mature, Mature, Over mature);
VIII. physiological condition (e.g. good, fair, poor, decline and dead);
IX. structural condition (e.g. good, fair, poor and ivy);
X. preliminary management recommendations, including further investigation of suspected defects that require more detailed assessment and potential for wildlife habitat; and
XI. The retention category referring to the quality and useful contribution in years; **U** = <10yrs; **A** = >40yrs; **B** = >20yrs; **C** = >10yrs. The retention sub category referring to the type of amenity; 1 = Arboricultural; 2 = Landscape; 3 = Cultural including conservation (see Table 1 Cascade chart for tree quality assessment).

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 (.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 m².

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

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

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

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.

Recommendations

We have not seen the proposed scheme and 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); and

c) A tree protection plan drawing (TPP).

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.

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,

Charlie Moore BSc (Hons)
Arboricultural Surveyor

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Appendix 1: Table 1 Cascade chart for tree quality assessment

BS5837:2012 Trees in relation to design, demolition and construction – Recommendations

Table 1 Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories when 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	• 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.*			Dark red
	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 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 wood-pasture)	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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Appendix 2: Schedule of Trees

BS5837:2012 Tree Survey

Arbtech Consulting Ltd
Unit 3, Well House Barns
Chester Road
Chester
Cheshire
CH4 0DH
Phone: 01244661170

Client: All Weather Developments
Project: Land at Jays Meadow, Callow Hill, Bewdley, Worcestershire
Survey Date: 06/08/2021
Surveyor: Charlie Moore

ARBTECH

Tree and Tag No / Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations / Survey Comment	Cat ERC
G1										Estimated Measurements	
Various	4.5	1	160	N	1	0	SM	A: 11.6	Fair	C: Fair	C.2
See comments for details				E	1	0		R: 1.92		S: Not visible	20+ yrs
				S	1	0				B: Not visible	
				W	1	0				Boundary group of trees running along eastern driveway; groups consisted of holly, and hawthorn, with significant ivy growth; recorded dbh denotes average for group.	
G2										Estimated Measurements	
Various	5	1	160	N	2.5	0	EM	A: 11.6	Fair	C: Fair	C.2
See comments for details				E	1	0		R: 1.92		S: Not visible	20+ yrs
				S	2.3	0				B: Not visible	
				W	3	0				Group located on the eastern boundary if the drive; comprised of hawthorn and plum; recorded dbh denotes average for group.	
G3										Estimated Measurements	
Various	5	1	120	N	1	0	EM	A: 6.5	Fair	C: Fair	C.2
See comments for details				E	1	0		R: 1.43		S: Not visible	20+ yrs
				S	1	0				B: Not visible	
				W	1	0				Lapsed hedge; group consist of hawthorn and plum.	
G4										Estimated Measurements	
Various	4	1	120	N	1	0	EM	A: 6.5	Fair	C: Fair	C.2
See comments for details				E	1	0		R: 1.43		S: Not visible	20+ yrs
				S	1	0				B: Not visible	
				W	1	0				Lapsed hedge; group consist of hawthorn and plum.	

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
G5										Estimated Measurements	
Various	6	1	200	N 1	0	EM	A: 18.1	Fair	C: Fair		**C.2**
See comments for details				E 1	0		R: 2.4		S: Not visible	Lapsed hedge; group consist of holly and plum.	20+ yrs
				S 1	0				B: Not visible		
				W 1	0						
G6										Estimated Measurements	
Various	6	1	170	N 1	0	EM	A: 13.1	Fair	C: Fair		**C.2**
See comments for details				E 1	0		R: 2.04		S: Not visible	Lapsed hedge; group consist of hawthorn and hazel.	20+ yrs
				S 1	0				B: Not visible		
				W 1	0						
G7										Estimated Measurements	
Various	6	1	180	N 1	0	EM	A: 14.7	Fair	C: Fair		**C.2**
See comments for details				E 1	0		R: 2.16		S: Not visible	Lapsed hedge; group consist of hawthorn.	20+ yrs
				S 1	0				B: Not visible		
				W 1	0						
G8										Estimated Measurements	
Various	7	1	180	N 1	0	EM	A: 14.7	Fair	C: Fair		**C.2**
See comments for details				E 1	0		R: 2.16		S: Not visible	Lapsed hedge; group consist of hawthorn and holly.	20+ yrs
				S 1	0				B: Not visible		
				W 1	0						
G9										Estimated Measurements	
Various	6	1	130	N 2.5	0	EM	A: 7.6	Fair	C: Fair		**C.2**
See comments for details				E 2	3		R: 1.55		S: Not visible	Group located on the eastern boundary; comprised of elder, holly and hawthorn. Recorded dbh denotes average for group.	20+ yrs
				S 2.5	2				B: Not visible		
				W 3	0						
G10										Estimated Measurements	
Various	13	3	642 (Eq)	N 5	2	M	A: 186.5	Good	C: Good		**B.2**
See comments for details				E 5	1		R: 7.7		S: Ivy	Group comprised of three individual Sitka spruce trees; ivy at base and to 4m in the crown; deadwood present on lower limbs, at 30mm approximate diameter; soil showing signs of subsidence.	20+ yrs
				S 5	2				B: Fair		
				W 4	2						

Age Classifications: N Newly planted; EM Early Mature; Y Young; M Mature; SM Semi-mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
G11										Estimated Measurements	
Various *See comments for details*	4	1	50	N 1 0 E 1 0 S 1 0 W 1 0		SM	A: 1.1 R: 0.59	Good	C: Good S: Not visible B: Not visible	Boundary group, consisting of Leyland's cypress, elder, ivy and buddleia.	**C.2** 20+ yrs
G12										Estimated Measurements	
Various *See comments for details*	9	1	240	N 3.5 1 E 4 1 S 4 1 W 4 1		M	A: 26.1 R: 2.88	Good	C: Good S: Not visible B: Not visible	Boundary group comprised of one dual stemmed Lawson's cypress with approximately 4 suckers, and a large sweet pea; ivy in the group.	**B.2** 20+ yrs
G13										Estimated Measurements	
Various *See comments for details*	4	1	80	N 1 0 E 1 0 S 1 0 W 1 0		EM	A: 2.9 R: 0.96	Fair	C: Good S: Not visible B: Not visible	Groups located on the northern boundary; comprised of blackthorn, privet, ivy, laurel, holly and Japanese maple.	**C.2** 20+ yrs
G14										Estimated Measurements	
Various *See comments for details*	13	4	522 (Eq)	N 2 4 E 2 3 S 2 2 W 2 1		M	A: 123.2 R: 6.26	Fair	C: Good S: Good B: Good	Group consists of five individual cherry specimens, and one hawthorn; recorded dbh denotes average for the group.	**B.1.2** 10+ yrs
G15										Estimated Measurements	
Various *See comments for details*	15	1	380	N 4 3 E 4 3 S 4 3 W 4 3		M	A: 65.3 R: 4.55	Fair	C: Good S: Ivy B: Not visible	Boundary group; consists of approximately 7 individual ash trees; recorded dbh denotes average for group, some specimens have ivy present in the crown, all specimens display no sign of ash dieback.	**B.2** 20+ yrs
G16										Estimated Measurements	
Various *See comments for details*	15	1	240	N 3 4 E 3 3 S 3 0 W 3 3		M	A: 26.1 R: 2.88	Fair	C: Good S: Fair B: Not visible	Boundary group; comprised of approximately 6 individual sycamore specimens; recorded dbh denotes average for groups; some acute V shaped unions present in group; some dead wood approximately 100mm diameter present in crown.	**B.2** 20+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
G17										Estimated Measurements	
Various	5	1	100	N 2	0	SM	A: 4.5	Fair	C: Fair		C.2
See comments for details				E 2	0		R: 1.19		S: Not visible		10+ yrs
				S 2	0				B: Not visible	Boundary group comprised of approximately 6 individual plum trees; recorded dbh denotes average for group.	
				W 2	0						
H1										Estimated Measurements	
Various	4	1	60	N 1	0	M	A: 1.6	Fair	C: Fair		C.2
See comments for details				E 2	0		R: 0.71		S: Not visible		20+ yrs
				S 2	0				B: Not visible	Boundary hedge running along the eastern boundary; recorded dbh denotes average for the hedge; species include holly, hawthorn, plum and honeysuckle; hedge comprised of frequent hedge material at 4m average height and some larger specimens at 5m height.	
				W 1	0						
H2											
Various	2	1	40	N 0.5	0	Y	A: 0.7	Fair	C: Fair		C.2
See comments for details				E 0.5	0		R: 0.47		S: Not visible		20+ yrs
				S 0.5	0				B: Not visible	Hedge running along western boundary of the driveway; comprised of Leyland's cypress; recorded dbh denotes average for the hedge.	
				W 0.5	0						
H3										Estimated Measurements	
Various	1.5	1	40	N 1	0	SM	A: 0.7	Fair	C: Good		C.2
See comments for details				E 1	0		R: 0.47		S: Not visible		20+ yrs
				S 1	0				B: Not visible	Hedge running across the neighbouring property's front boundary, touching the driveway; comprised of laurel.	
				W 1	0						
H4										Estimated Measurements	
Various	1.8	1	40	N 1	0	EM	A: 0.7	Fair	C: Fair		C.2
See comments for details				E 0.5	0		R: 0.47		S: Not visible		20+ yrs
				S 1	0				B: Not visible	Hedge running along the western side of the driveway; comprised of hazel, hawthorn, holly and privet; maintained regularly by hedge cutters.	
				W 0.5	0						

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
H5										Estimated Measurements	
Various *See comments for details*	4	1	40	N 1 0 E 1 0 S 1 0 W 1 0		M	A: 0.7 R: 0.47	Fair	C: Fair S: Not visible B: Not visible	Lapsed hedge running alongside the eastern boundary of the driveway; hedge has gaps where significant trees in the hedge have been removed; recorded dbh denotes average for hedge; species include ivy, plum, hawthorn, buddleia and hazel.	**C.2** 20+ yrs
H6										Estimated Measurements	
Various *See comments for details*	2	1	40	N 0.5 0 E 0.5 0 S 0.5 0 W 0.5 0		EM	A: 0.7 R: 0.47	Fair	C: Good S: Not visible B: Not visible	Hedge running along the northern boundary; consists of holly, buddleia, elder and snowberry.	**C.2** 20+ yrs
H7										Estimated Measurements	
Various *See comments for details*	3	1	50	N 1.5 0 E 1.5 0 S 1.5 0 W 1.5 0		M	A: 1.1 R: 0.59	Good	C: Good S: Not visible B: Not visible	Boundary hedge on the western boundary; recorded dbh denotes average for the hedge; species include holly, buddleia, hawthorn and laurel.	**C.2** 20+ yrs
H8										Estimated Measurements	
Various *See comments for details*	3	1	40	N 1 0 E 1 0 S 1 0 W 1 0		M	A: 0.7 R: 0.47	Fair	C: Good S: Not visible B: Not visible	Hedge running along the southern boundary; recorded dbh denotes average for hedge; species include holly, ivy, privet, Leyland's cypress and sycamore.	**C.2** 20+ yrs
T01										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	9	2	354 (Eq)	N 4.3 3 E 4.4 1 S 4.5 3 W 4.4 3		M	A: 56.6 R: 4.24	Fair	C: Good S: Ivy B: Not visible	Offsite tree; located on boundary hedge; significant ivy coverage on the stem.	**B.1** 10+ yrs
T02										Estimated Measurements	
Mountain Ash *Sorbus aucuparia*	8	1	300	N 3 3 E 5 3 S 3 4 W 2 3		EM	A: 40.7 R: 3.59	Good	C: Good S: Fair B: Good	Offsite tree; specimen shows recent pruning wounds at approximately 45mm diameter.	**B.1** 20+ yrs

Age Classifications: N Newly planted; EM Early Mature; Y Young; M Mature; SM Semi-mature; OM Over Mature

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ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
T03										Estimated Measurements	
Lawson Cypress *Chamaecyparis lawsoniana*	11	1	350	N 1.8 E 2.3 S 2.3 W 1.8	0 0 0 0	M	A: 55.4 R: 4.19	Fair	C: Good S: Ivy B: Good	Specimen located on the western boundary of the driveway.	**B.1** 20+ yrs
T04											
Sitka Spruce *Picea sitchensis*	12	1	390	N 3.3 E 3.7 S 3.4 W 3.5	3 3 2 3	EM	A: 68.8 R: 4.67	Fair	C: Fair S: Ivy B: Fair	Specimen located to the immediate west of the driveway; shows deadwood in the crown at approximately 40mm diameter; ivy is starting to grow on the stem; dieback present in the crown.	**B.1** 20+ yrs
T05										Estimated Measurements	
Wild Cherry *Prunus avium*	10	1	340	N 6.1 E 4.2 S 2.9 W 5.7	3 3 5 4	M	A: 52.3 R: 4.08	Fair	C: Fair S: Ivy B: Not visible	Specimen located in the eastern driveway hedge; ivy growing 5m into stem.	**B.1** 20+ yrs
T06											
European Larch *Larix decidua*	12	1	330	N 5 E 4.2 S 1.6 W 2.7	2 0.5 1 1	EM	A: 49.3 R: 3.96	Fair	C: Fair S: Fair B: Good	Specimen located on amenity grassland; dieback in the crown, with some failed limbs towards the top; ivy at base, 3m into stem; sounding mallet inspection reveals potential dysfunction in the base of the stem.	**B.1** 10+ yrs
T07											
Wild Cherry *Prunus avium*	10	2	394 (Eq)	N 4.7 E 3.5 S 4.6 W 4.2	2 3 3 4	EM	A: 70.3 R: 4.73	Good	C: Good S: Fair B: Good	Specimen located on amenity grassland; multi stemmed at base; severed ivy present in stem; stem has historical pruning that has since occluded.	**B.1** 20+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
T08											
Unknown - -	5	1	350	N 3 E 2 S 1.4 W 1.8	4 2 3 3	M	A: 55.4 R: 4.19	Decline	C: Fair S: Poor B: Not visible	Specimen located on amenity grassland; shows significant dead in the crown, with fruiting bodies present in the main stem; bark splitting down the main stem; sounding mallet inspection reveals sound wood at base; suppressed to the north and south by neighbouring trees; shows previous pruning on stem 160mm diameter, showing no occlusion and dieback into the wound.	**U** <10 yrs
T09										Estimated Measurements	
Unknown - -	4	1	170	N 2 E 2 S 2 W 2	2 2 2 2	Dead	A: 13.1 R: 2.04	Dead	C: S: B:	Standing deadwood.	**U** n/a
T10										Estimated Measurements	
Fir *Abies Spp.*	13	1	430	N 3 E 3 S 4 W 3	3 3 3 3	M	A: 83.7 R: 5.16	Fair	C: Good S: Not visible B: Not visible	Offsite tree; unable to thoroughly inspect the stem and base of the tree due to location.	**B.1** 20+ yrs
T11										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	9	1	240	N 4 E 4 S 3 W 3.7	2 1 1 1	EM	A: 26.1 R: 2.88	Fair	C: Good S: Ivy B: Good	Specimen located on the northern boundary; multi stemmed at 1.7m; ivy from base approximately 4m into crown.	**B.1** 40+ yrs
T12											
European Larch *Larix decidua*	12	1	280	N 3.9 E 3 S 1.9 W 4.2	3 3 3 2	SM	A: 35.5 R: 3.36	Fair	C: Fair S: Fair B: Good	Specimen located on amenity grassland; suppressed to the east by neighbouring tree.	**B.1** 20+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
T13											
European Larch *Larix decidua*	13	1	330	N 4.7 E 4.6 S 2 W 4.4	4 2 3 4	M	A: 49.3 R: 3.96	Good	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees; previous pruning to the south side of the stem showing almost full occlusion.	**B.1** 40+ yrs
T14											
Common Hawthorn *Crataegus monogyna*	6	2	180 (Eq)	N 2 E 2.8 S 3.5 W 3.5	2.5 1 2 1	M	A: 14.7 R: 2.16	Fair	C: Fair S: Fair B: Good	Specimen located on amenity grassland; dieback in the top of the canopy; multi stemmed at base, previous unsympathetic pruning on the north side of stem at 70mm.	**C.1** 10+ yrs
T15											
Scots Pine *Pinus sylvestris*	15	1	310	N 3.2 E 2.9 S 3 W 2.3	9 9 9 9	EM	A: 43.5 R: 3.72	Fair	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees; small lateral limb failures at 7m on the stem; superficial bark damage visible around the base in keeping with lawnmower.	**B.1** 20+ yrs
T16											
Scots Pine *Pinus sylvestris*	15	1	410	N 2.8 E 3.4 S 1.6 W 3.1	3 3 3 3	M	A: 76.1 R: 4.92	Good	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees; stem breaks into crown at 8m, with a lower crown at 4m; potential exposed roots to the south east.	**B.1** 20+ yrs
T17											
Scots Pine *Pinus sylvestris*	15	1	390	N 1.3 E 2.5 S 2.8 W 1.8	9 4 4 9	M	A: 68.8 R: 4.67	Good	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees; potential root exposure and damage.	**B.1** 20+ yrs
T18											
Silver Birch *Betula pendula*	12	1	220	N 2.9 E 2.5 S 2.4 W 2	1.5 2 2 2.5	EM	A: 21.9 R: 2.64	Good	C: Good S: Good B: Fair	Specimen located on amenity grassland; part of a larger group of trees; suppressed above by neighbouring trees.	**B.1** 20+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
T19											
Common Hawthorn *Crataegus monogyna*	6	4	206 (Eq)	N 2.8 E 3.3 S 2.2 W 2.2	2 2 2 1	EM	A: 19.2 R: 2.47	Fair	C: Fair S: Fair B: Good	Specimen located on amenity grassland; deadwood in crown approximately 40mm diameter; multi stemmed at base.	C.1 20+ yrs
T20											
Silver Birch *Betula pendula*	13	1	200	N 2.6 E 3.3 S 3.3 W 2.2	2 1.5 2 3	EM	A: 18.1 R: 2.4	Good	C: Good S: Good B: Fair	Specimen located on amenity grassland; part of a larger group of trees; suppressed above by neighbouring trees.	B.1 20+ yrs
T21											
Silver Birch *Betula pendula*	14	1	230	N 2 E 2.2 S 2 W 2.1	2.5 2.5 5 3	EM	A: 23.9 R: 2.75	Good	C: Good S: Fair B: Fair	Specimen located on amenity grassland; part of a larger group of trees; cavity at base showing good occlusion, sounding mallet inspection revealed sound wood at base.	B.1 20+ yrs
T22											
Black Poplar *Populus nigra var betulifolia*	14	1	400	N 4.8 E 4 S 4 W 3.2	8 3 3 4	M	A: 72.4 R: 4.8	Good	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees.	B.1 10+ yrs
T23											
Silver Birch *Betula pendula*	7	1	140	N 2.3 E 1.5 S 1.9 W 2	2 1.5 2 2	SM	A: 8.9 R: 1.68	Fair	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees.	C.1 20+ yrs
T24											
Silver Birch *Betula pendula*	6	1	160	N 3.2 E 2.2 S 1.1 W 2.1	2 1.5 3 3	SM	A: 11.6 R: 1.92	Fair	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees.	C.1 20+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
T25											
Silver Birch *Betula pendula*	9	1	230	N 3.8 E 2.2 S 3.2 W 2.6	2 2 2 2	EM	A: 23.9 R: 2.75	Fair	C: Good S: Fair B: Good	Specimen located on amenity grassland; part of a larger group of trees; previous pruning on the stem showing varying rates of occlusion.	**B.1** 20+ yrs
T26											
Scots Pine *Pinus sylvestris*	15	1	420	N 5 E 5.5 S 2.4 W 2.2	7 7 8 7	M	A: 79.8 R: 5.03	Fair	C: Good S: Good B: Fair	Specimen located on amenity grassland; part of a larger group of trees; exposed roots to the north.	**B.1** 20+ yrs
T27											
Scots Pine *Pinus sylvestris*	15	1	360	N 3.8 E 2.4 S 1.9 W 2.9	7 9 9 7	M	A: 58.6 R: 4.31	Fair	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees; some minor limb failures on the stem typical for age of tree.	**B.1** 20+ yrs
T28											
European Larch *Larix decidua*	14	1	260	N 3 E 4.3 S 3.1 W 3.6	3 3.2 3 3	SM	A: 30.6 R: 3.12	Fair	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees.	**B.1** 20+ yrs
T29											
Black Poplar *Populus nigra var betulifolia*	14	1	370	N 3.6 E 4.2 S 3.6 W 3.1	3.5 2 1 2	M	A: 61.9 R: 4.43	Good	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees.	**B.1** 10+ yrs
T30											
Common Hawthorn *Crataegus monogyna*	8	1	190	N 4.4 E 1.8 S 2.2 W 2.3	2 1.5 1.5 1.5	EM	A: 16.3 R: 2.27	Fair	C: Good S: Fair B: Good	Specimen located on amenity grassland; pruning to the crown approximately 60mm diameter; previous main stem failure, no occlusion present; bark stripping to the stem on the eastern side.	**B.1** 10+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

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ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
T31											
European Larch *Larix decidua*	15	1	300	N 3.9 E 5.2 S 2.9 W 1.3	2 2 4 4	M	A: 40.7 R: 3.59	Fair	C: Good S: Good B: Fair	Specimen located on amenity grassland; part of a larger group of trees; exposed roots at the base.	**B.1** 20+ yrs
T32											
European Larch *Larix decidua*	15	1	330	N 3.4 E 2.2 S 2.4 W 2.8	3 2 3 3	M	A: 49.3 R: 3.96	Fair	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees.	**B.1** 20+ yrs
T33											
European Larch *Larix decidua*	15	1	230	N 1.8 E 3.7 S 3.5 W 1.7	4.5 7 7 10	SM	A: 23.9 R: 2.75	Fair	C: Good S: Good B: Fair	Specimen located on amenity grassland; part of a larger group of trees; exposed roots at the base.	**B.1** 20+ yrs
T34											
Silver Birch *Betula pendula*	13	1	150	N 2.2 E 1.6 S 1.7 W 1.7	2.2 3.5 3.5 3.5	SM	A: 10.2 R: 1.8	Good	C: Good S: Good B: Fair	Specimen located on amenity grassland; part of a larger group of trees; previous limb failure at 2.5m; exposed root ball; suppressed by neighbouring trees.	**C.1** 20+ yrs
T35											
Sitka Spruce *Picea sitchensis*	13	1	250	N 3 E 2.7 S 3.3 W 3.1	2 1 1 1	SM	A: 28.3 R: 3	Good	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees; it's historical companion tree has been felled.	**B.1** 20+ yrs
T36											
Black Poplar *Populus nigra var betulifolia*	15	1	300	N 5.5 E 5.1 S 2.8 W 1.2	12 7 7 7	M	A: 40.7 R: 3.59	Good	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees.	**B.1** 10+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

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Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
T37											
Sitka Spruce *Picea sitchensis*	13	1	300	N 2.1 E 2.1 S 2.6 W 2.5	2 2 2 2	M	A: 40.7 R: 3.59	Good	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees.	**B.1** 20+ yrs
T38											
European Larch *Larix decidua*	14	1	290	N 3.9 E 2.8 S 3.5 W 4	2 3 3 1	M	A: 38.1 R: 3.48	Fair	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees.	**B.1** 20+ yrs
T39											
European Larch *Larix decidua*	13	1	230	N 2.5 E 3.5 S 3.5 W 3.3	1.5 2 1.5 1.5	SM	A: 23.9 R: 2.75	Fair	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees.	**B.1** 20+ yrs
T40											
European Larch *Larix decidua*	15	1	330	N 3.9 E 3.2 S 2.6 W 2.7	1 1 1 0	M	A: 49.3 R: 3.96	Fair	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees; suppressed to the north by neighbouring tree.	**B.1** 20+ yrs
T41											
European Larch *Larix decidua*	15	1	250	N 1.9 E 2.8 S 4.9 W 3.7	2 3.5 1 1	SM	A: 28.3 R: 3	Fair	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees; suppressed to the north by neighbouring tree.	**B.1** 20+ yrs
T42											
Black Poplar *Populus nigra var betulifolia*	15	1	390	N 4.9 E 2.9 S 3.4 W 4.7	7 4 2 2	M	A: 68.8 R: 4.67	Good	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees.	**B.1** 10+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

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Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)		Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
T43												
Black Poplar *Populus nigra var betulifolia*	15	1	380	N E S W	4.5 4.11 0.5 4.3	7 8 6 3	M	A: 65.3 R: 4.55	Good	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees.	**B.1** 10+ yrs
T44												
Black Poplar *Populus nigra var betulifolia*	15	1	370	N E S W	3.3 1.9 5.1 3.5	2 3.5 1 1.5	M	A: 61.9 R: 4.43	Good	C: Good S: Good B: Fair	Specimen located on amenity grassland; exposed roots; has lost its two companion trees.	**B.1** 10+ yrs
T45												
Black Poplar *Populus nigra var betulifolia*	20	1	570	N E S W	4 4.9 5.7 5.8	3 3 1.5 1.5	M	A: 147 R: 6.84	Good	C: Good S: Good B: Fair	Specimen located on amenity grassland; exposed roots; has lost two companion trees; small amounts of deadwood and minor limb failures as expected for species and age.	**B.1** 10+ yrs
T46												
Black Poplar *Populus nigra var betulifolia*	20	1	490	N E S W	3.6 5.4 6.5 4.6	3 4 1.5 1.5	M	A: 108.6 R: 5.87	Good	C: Good S: Ivy B: Fair	Specimen located on amenity grassland; exposed roots; ivy that has now been severed on the stem.	**B.1** 10+ yrs
T47												
Black Poplar *Populus nigra var betulifolia*	20	1	560	N E S W	9.9 6.3 9.6 3.1	7 2 3 2	M	A: 141.9 R: 6.72	Good	C: Good S: Good B: Good	Specimen located on amenity grassland; has been suppressed to the west by neighbouring tree that has since been felled.	**B.1** 10+ yrs
T48												
Black Poplar *Populus nigra var betulifolia*	20	1	580	N E S W	8.1 9 9.6 1.8	9 2 1.5 1.5	M	A: 152.2 R: 6.96	Good	C: Good S: Good B: Fair	Specimen located on amenity grassland; has been suppressed to the west by neighbouring tree; exposed roots.	**B.1** 10+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

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ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)		Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
T49												
Wild Cherry *Prunus avium*	9	1	400	N E S W	6.5 5.9 5.5 5.5	3 3.5 3.5 1	M	A: 72.4 R: 4.8	Fair	C: Good S: Ivy B: Not visible	Specimen located in a hedge on the western boundary; ivy into crown at 5m.	B.1 10+ yrs
T50											Estimated Measurements	
Apple *Malus sp.*	7	1	250	N E S W	3 3 4 3.5	3.5 3.5 3.5 3	M	A: 28.3 R: 3	Poor	C: Fair S: Ivy B: Not visible	Specimen located in a hedge on the western boundary; ivy to the top of crown; sparse growth and deadwood present.	C.1 10+ yrs
T51												
Thuja *Thuja Spp.*	4	1	130	N E S W	1.5 1.5 1.5 1.5	0 0 0 0	SM	A: 7.6 R: 1.55	Fair	C: Good S: Not visible B: Not visible	Specimen located on amenity grassland.	C.1 20+ yrs
T52												
Plum *Prunus domestica*	3.5	1	90	N E S W	1 1 1 1	1.5 1.5 2 1.5	SM	A: 3.7 R: 1.08	Fair	C: Fair S: Good B: Good	Specimen located on amenity grassland; specimen has a very sparse crown.	C.1 10+ yrs
T53												
Plum *Prunus domestica*	3.5	1	120	N E S W	1.5 1 1 2	2 2 2 2	SM	A: 6.5 R: 1.43	Fair	C: Fair S: Good B: Good	Specimen located on amenity grassland.	C.1 10+ yrs
T54												
Plum *Prunus domestica*	4	1	180	N E S W	1 3 3 2	1 3 2 1	SM	A: 14.7 R: 2.16	Fair	C: Fair S: Good B: Good	Specimen located on amenity grassland.	C.1 10+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

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Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
T55											
Noble Fir *Abies procera*	6.5	1	230	N 2 E 2 S 2 W 2	0 0 0 0	EM	A: 23.9 R: 2.75	Fair	C: Good S: Fair B: Good	Specimen located on a bed on a driveway; is part of a smaller group of dwarf conifers.	**B.1** 20+ yrs
T56											
Common or Black Elder *Sambucas nigra*	6	1	330	N 2.5 E 2 S 1.5 W 1.5	2 2 2 2	EM	A: 49.3 R: 3.96	Decline	C: Not visible S: Ivy B: Not visible	Specimen shows heavy ivy coverage and little to no leaf cover.	**U** <10 yrs
T57											
Common Laburnum *Laburnum anagyroides*	3.5	2	135 (Eq)	N 2.6 E 2.1 S 1.5 W 2	2 2 1 1	SM	A: 8.2 R: 1.61	Fair	C: Good S: Good B: Good	Specimen located on a bed, with small shrubs in immediate vicinity.	**C.1** 20+ yrs
T58											
Apple *Malus sp.*	5.5	1	210	N 3.5 E 4 S 3.1 W 4.2	2 1.5 2 1.5	EM	A: 20 R: 2.52	Fair	C: Fair S: Good B: Good	Specimen located on a bed on amenity grassland; previous pruning wounds to the north 50mm diameter, showing no occlusion.	**B.1** 10+ yrs
T59											
Lawson Cypress *Chamaecyparis lawsoniana*	7	1	160	N 1.5 E 1.5 S 1.5 W 1.5	0 0 0 0	EM	A: 11.6 R: 1.92	Fair	C: Good S: Not visible B: Not visible	Specimen located on a bed on amenity grassland; maintained regularly by hedge cutters.	**B.1** 20+ yrs
T60											
Sitka Spruce *Picea sitchensis*	15	1	450	N 5.1 E 5.1 S 5.7 W 3.7	1 1 1 2	M	A: 91.6 R: 5.39	Good	C: Good S: Good B: Good	Specimen located on amenity grassland on a bed.	**A.1** 20+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

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Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)		Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
T61												
Sitka Spruce *Picea sitchensis*	15	1	250	N E S W	2 2 4.6 4.3	6 3 1 1.5	SM	A: 28.3 R: 3	Good	C: Good S: Good B: Good	Specimen located on a bed situated in amenity grassland.	**B.1** 20+ yrs
T62												
Sitka Spruce *Picea sitchensis*	14	1	390	N E S W	2.7 3.9 3.4 3.2	2 1.5 1.5 3	M	A: 68.8 R: 4.67	Good	C: Good S: Good B: Good	Specimen located on boundary hedge, on a bed in amenity grassland; deadwood present as has been maintained with crown lifts.	**B.1** 20+ yrs
T63												
Wild Cherry *Prunus avium*	12	1	500	N E S W	5.7 5.5 4.3 4.3	2 1 2 3	M	A: 113.1 R: 6	Fair	C: Good S: Good B: Good	Specimen located on western boundary in a hedge; evidence of historic pruning 180mm showing good occlusion.	**B.1** 10+ yrs
T64											Estimated Measurements	
Unknown - -	7	1	250	N E S W	2 2 2 2	3 3 3 3	Dead	A: 28.3 R: 3	Dead	C: S: B:	Standing deadwood with ivy present.	**U** n/a
T65											Estimated Measurements	
Apple *Malus sp.*	9	1	290	N E S W	5 4.4 4.4 4.5	3.5 3.5 2 3	M	A: 38.1 R: 3.48	Fair	C: Good S: Ivy B: Not visible	Specimen located in boundary hedge on the western boundary; ivy present to top of crown.	**B.1** 10+ yrs
T66												
Wild Cherry *Prunus avium*	8	1	170	N E S W	3.3 3.7 2.7 3	2 1.5 1.5 3	SM	A: 13.1 R: 2.04	Good	C: Good S: Good B: Good	Specimen located on a bed, next to amenity grassland; multi stemmed at 1.5m.	**B.1** 20+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
T67											
Goat Willow *Salix caprea*	8	1	200	N 2.7 E 2.5 S 2.1 W 1.5	2 1.5 1.5 2	EM	A: 18.1 R: 2.4	Good	C: Good S: Good B: Fair	Specimen looks to be growing out of previously growing stump; located next to amenity grassland.	**B.1** 10+ yrs
T68											
Unknown - -	4	1	110	N 2 E 1.5 S 1 W 1.5	1 1 1 1	Dead	A: 5.5 R: 1.32	Dead	C: S: B:	Standing deadwood.	**U** n/a
T69											
Black Poplar *Populus nigra var betulifolia*	15	1	290	N 3.5 E 5 S 4 W 3	12 7 7 7	M	A: 38.1 R: 3.48	Good	C: Good S: Good B: Good	Specimen located on amenity grassland; part of a larger group of trees.	**B.1** 10+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Appendix 3: Tree Constraints Plan

Note: Existing dwelling(s), retaining wall(s), road(s) and structures are likely to be partial or complete root barriers. We currently do not have enough information with regards to the existing and surrounding properties and structures, foundations, soil types etc. to definitively determine the root barriers. Site features that are significant enough to be considered barriers to root development, irrespective of proximity to trees, have been identified with a light blue hatch (see key for details).

N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW

Indicative only

Tree Categories

Trees are categorised in accordance with the cascade chart in Table 1 of the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'

Category 'U' - Trees in such condition that they cannot realistically be retained as living trees in context of the current land use for longer than 10 years.
Category 'A' - Trees of high quality with an estimated remaining life expectancy of at least 40 years.
Category 'B' - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.
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 150mm.

Root Protection Area

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPAs) should be plotted around each of the category A, B and C trees. This is a minimum area in m² which should be left undisturbed around each retained tree.

The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations.

The calculated RPA is capped to 707m², which is the equivalent to a circle with a radius of 15m. Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

Tree Survey Report

Please refer to Arbtech Consulting Ltd. Tree Survey Report and Tree Schedule for full details on all surveyed trees, hedgerows and major shrub groups.
All trees were surveyed and categorised in accordance with the guidance as set out in the British Standard BS5837:2012 Tree in relation to design, demolition and construction - Recommendations.

We make the following recommendation to ensure that no conditions relating to arboriculture are attached to any planning consent secured: obtain and arboricultural report to include:
a) An arboricultural impact assessment (AIA);
b) An arboricultural method statement (AMS); and
c) A tree protection plan (TPP).

0m 1m 3m 5m 10m 15m 20m

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Project:
Land at Jays Meadow,
Callow Hill,
Bewdley
Worcestershire
DY14 9XW

Client:
All Weather Developments

Drawing:
Tree Constraints Plan

Based on:
OS Tile

Drawing No:		Rev:
Arbtech TCP 01		
Date: Aug 2021	Scale: 1:250 @ A1	Drawn: CM

Key:

Tree Nos.:	T01	Tree Canopies:		Trunks:	
RPAs:		Category 'U' trees:		Category 'A' trees:	
Category 'B' trees:		Category 'B' groups:		Category 'C' trees:	
Category 'C' groups:		Potential root barriers:			

All dimensions should be checked on site. No dimensions are to be scaled from this drawing.
Please notify us of any discrepancies found. Arbtech Consulting Ltd. cannot be held responsible for inaccuracies in the base drawing in which this plan is based.
This drawing is designed to reflect the principles of the layout or design only, and relates only to the protection of retained trees.
This drawing is not to be read as a definitive part of the engineering or construction designs or method statement. An architect or structural engineer should be contacted over any matters of construction, detailing or specification and for any standards or regulatory requirements relating to proposed structures, hard surfacing or underground services.
This drawing was produced in colour - a monochrome copy should not be relied upon.

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