ARBORICULTURAL REPORT

Client: Dave Allen

Site: Land at Highfield
Leek

Date: 15 September 2023

Ref.: THL-R23-69

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1.0 Introduction

1.1 The purpose of this report is to be an aid to the design of the layout of the site. It identifies the better trees and specifies necessary protective measures that are required to keep the trees within the development. It may also give recommendations for remedial work that may be desirable to keep or improve the quality of the trees.

1.2 The survey complies with British Standard 5837:2012 *Trees in relation to design, demolition and construction – Recommendations*. All significant trees on the site have been inspected including any that may be on the boundary or on adjacent land that may be affected by any development. Included in the schedule of trees are the Root Protections Areas (RPAs) which are designed to give the minimum functionally rooting area to ensure the healthy survival of the retained trees on site. The relevant distance from each tree from which construction work should be excluded by the erection of a Protective Barrier is also listed.

1.3 The site visit was on 18 August 2023. Surveyor: Hugh Williams. The weather conditions: Mainly overcast with some light showers.

2.0 Limitations of report

2.1 The trees were inspected from ground level only and no invasive tools were used.

2.2 This report is valid for a period of 2 years as part of the planning application process. Due to the nature of trees the condition may change rapidly and therefore the safety of the trees cannot be guaranteed for the same period.

2.3 Trees may affect buildings by indirect influence of their roots on the substrate on which structures are built and by direct action on foundations, drains and other underground services. This report does not attempt to address these issues.

2.4 Trees are dynamic structures that can change rapidly and can never be guaranteed 100% safe: even if they were deemed safe on the day of the inspection, they can sometimes suffer damage in adverse weather conditions. All trees should be inspected following any bad weather.

3.0 Method

3.1 The survey was undertaken from ground level and includes all individual significant trees shown in position and numbered on the site plan. Some trees may be surveyed together and put in numbered groups e.g. G1, or woodlands e.g. W1. Hedges will also be listed e.g. H1.
The following information is collected and given in a schedule.

- Number
- Tree Species (Common Name)
- Height in metres
- Stem diameter at 1.5 metre above ground level in millimetres.
- Crown Spread at compass points NSEW in metres.
- Crown clearance (height of lowest branch above ground) in metres.
- First significant branch height (in metres) and direction (NSEW).
- Age Class (Young, Middle-aged, Mature, Over mature and Veteran)
- Physiological Condition (Good, Fair, Poor or Dead). This is an overall assessment of the health of the tree based on leaf size, colour, density, annual growth increments and die-back or dead wood.
- Structural Condition (comments on decay, cavities, disease and other defects and issues that will affect its suitability for retention).
- Recommendations (These are based on the previous two categories and may include pruning or removal amongst other recommendations).
- Estimated Remaining Contribution (in years <10, 10+, 20+, 40+)
- Category Grading:

  U= Low valued tree (may be unsuitable for retention due to its poor condition or less than 10 years contribution).

  A= High quality tree of good form with at least 40 years contribution.

  B= Moderate quality tree with 20>40 years contribution.

  C= Low quality tree (usually of poor form or condition). Also, trees of less the 150mm stem diameter (these may be considered for relocation). Category C trees should not be considered as a planning constraint.

  Subcategory:

  1= mainly Arboricultural Merit

  2= mainly Landscape Merit

  3= mainly Cultural or Conservation Merit

4.0 Trees and Construction: General overview

4.1 Trees are large dynamic organisms that have basic requirements to survive. The obvious part of the tree is the trunks and branches with the leaves that are essential for survival and these are easily damaged by machines etc. This damage though is easily avoided and obvious when it occurs. They have roots that anchor the tree into the ground but also take up moisture and oxygen as well as nutrients from the soil. Most tree roots are in the upper 0.5 metres of the soil and can extend well beyond the extent of the trees leafy canopy. Roots are easily damaged during any construction process although sometimes the immediate effect is not obvious. The main threats from construction work come from:

a) Compaction of the soil prevents gaseous exchange and water drainage.
b) Roots being severed or crushed.
c) Drainage being affected by alteration of levels and installation of trenches for services.
d) Physical damage to branches and trunks.
e) Poisoning of trees with contamination from fuel and oil leaks from machinery, run off from concrete mixers or other toxic materials used during construction.

The main consequences of the above in terms of damage are:

i) Compaction kills roots by preventing oxygen and water take-up.
ii) Severance can lead to pathogenic fungi invading the tree and in the worst cases, it can also lead to instability.
iii) Loss of vitality caused by the above can dramatically affect the life span of the tree.
iv) Damage to the crown can also lead to disease and instability in the worst cases.

5.0 Protection of the trees that are retained

5.1 BS 5837:2012 is intended to give recommendations to protect the trees during development and ensure their survival following the demolition or construction work. To achieve this there are two main considerations. The first is to protect the roots of the trees and the second to protect the upper parts of the trees, the trunk and branches.

5.2 The main tool to achieve the above is to create “Construction Exclusion Zones” (CEZ) around the trees. These are based on the “Root Protection Area” or RPA as calculated in BS 5837:2012. The RPAs for all the trees are included in the survey schedule. The RPA may be adjusted to consider existing ground constraints such as roads, buildings or walls. This will be done based on the surveyors’ experience and qualification on a tree by tree basis.

5.3 To achieve an effective “Construction Exclusion Zone” (CEZ) it is necessary to erect a protective barrier along the edge of the RPA’s. The details of this fencing are shown in Figure 2 or 3, which is included as an appendix (B) to this report. The barrier should be erected a minimum distance from each tree, this minimum distance is provided as a radius in the Survey Schedule and shown on the plan. It is essential that this barrier is well anchored into the ground to prevent it being moved. It is acceptable to use “Herras” fencing in concrete or rubber feet and appropriately back braced in areas where site circumstances and the associated risk of damaging incursion into the RPA are low.

5.4 The Tree Protective Fencing should be installed before any construction work takes place. This includes demolition, site clearance and drainage work.

5.5 Notices should be fixed to the fencing warning personnel not to enter. They should read “CONSTRUCTION EXCLUSION ZONE – NO ACCESS”. An example of this is attached in appendix (B).

5.6 In some circumstances, and only with agreement from the LPA, it may be necessary to work within the RPA. In these circumstances the barrier may need to be realigned and ground protection used even for access on foot. If vehicular access is required, then this will have to be specifically designed to prevent compaction and agreed in writing.

5.7 If the LPA agree to work within the RPA, then any excavation work would have to be done by hand and usually supervised by the Arboriculturalist. Drives or access roads will also require a specific Method Statement and include “No-Dig” construction methods.

5.8 Some operations such as the use of cranes for construction or demolition will need to be carefully organised and supervised to avoid accidental damage to the branches and stems of the retained trees. It may be advisable where damage is inevitable to carry out facilitation pruning to avoid initial conflict. This would have to be agreed by the Arboriculturalist and the LPA.

5.9 Trees should not be used to support notices and under no circumstances should nails, screws or bolts be driven into the trees. Likewise, trees should not be used to support cables or lights.

5.10 Care should be taken to avoid the discharge of any material that could contaminate the soil within 15 metres of any tree. This would include washings from cement mixers, fuel or oil storage etc. This distance may need to be extended if the ground slopes towards the tree.

6.0 Arboricultural Methods

6.1 The Arboriculturalist or the Local Authority Tree Officer should be consulted if there are any unforeseen issues in relation to any tree on site, including any unexpected work within the Root Protection Areas.

6.2 All tree work should be carried out by skilled professionals, and it is recommended that contractors are selected from the Approved List of Arboricultural Association Contractors. This can be obtained from www.trees.org.uk

6.3 All tree work should be carried out to the latest standards based on BS 3998: 2010 ‘Recommendations for Tree Work’.

7.0 Wildlife and Timing of Operations

7.1 Many animals including bats and birds are given special protection under the Wildlife and Countryside Act 1981(as amended) and the Countryside and Rights of Way Act 2001 amongst other legislation.

7.2 **Bats**. It is an offence to "intentionally or recklessly disturb a bat" or "damage, destroy or block the access to the resting place of any bat". An assessment of trees on the site for "suitability for bats" is an essential part of the pre-planning stage. If bats are found or even reported to have used the trees for roosts, then it is essential that a specialist in this field is contacted for advice. Natural England should be contacted on 0300 060 3900 or through www.naturalengland.org.uk for details of suitable specialists. It may be that a European Protected Species Habitat Regulations Licence is required before work can continue. Following advice, it is usual that work to trees with potential for bat roosts is best done from late August to early October. March through to April is also suitable but there may be conflict with nesting birds. (see below)

7.3 **Birds**. It is an offence to disturb, injure or kill any bird whilst it is at or building a nest. This includes damage to or removal of the actual nest whilst it is in use or being built. Tree works that could lead to the above should therefore be avoided during the months of March through until August.

7.4 To avoid problems with either, it would be advisable to programme all necessary site clearance work and tree pruning from late August to the early October**.**

8.0 Planning Considerations

8.1 Full planning consent that includes any proposed tree works usually overrides the requirement to get specific permission, even for trees that are within a Conservation Area or protected by a Tree Preservation Order.

8.2 If work is to be carried out prior to planning consent being sought, then it may be necessary to apply for permission separately. In a Conservation Area it is a requirement to give Six Weeks Written Notice of any intended works. In the case of a TPO an application is required to the LPA on a 1APP form; in this case it may take 8-10 weeks before permission is given. It should be noted that permission is not required from the LPA to remove "Dead or Dangerous" trees although it is always best to inform the LPA of your intentions and supply suitable evidence to support your actions.

9.0 Arboricultural Impact Assessment

9.1 A total of 37 trees were included in the survey although some are on adjacent land. All trees are listed in the survey schedule and shown on plan THL-1179 attached to this report.

9.2 The proposed development is for an annexe building as shown on plan THL-1179-2.

9.3 To achieve the proposed scheme, it will not be necessary to remove any of the existing trees. Some of the trees are in relatively poor condition and it may be desirable to remove these trees before the development takes place.

9.4 The proposed scheme uses the existing entrance and the services for the new building will be linked to the existing services without the need for excavation within the RPAs of any of the trees.

9.5 All retained trees will require protection during the construction work to make sure that they are not damaged. This can be achieved by creating a Construction Exclusion Zone (CEZ), using barriers to exclude vehicles, personnel and materials, details of this are found in section 5 of this report.

9.6 The suggested position of the Tree Protection Barriers is shown on plan THL-1179-3 but should be discussed on site with the agreement of the LPA Tree Officer. It is essential that they are erected prior to any works commencing on site and remain in situ until completion of the works.

Tree Heritage Ltd

H. E. Williams

15/09/2023

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	• 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 *NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see **4.5.7**.*			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 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)	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 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	Mid Blue
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	Grey

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APPENDIX A: TREE SURVEY SCHEDULE

KEY:

Measurements	Life Stage	Physiological Condition	Category Grading	Symbols
Height - *Metres* Stem Diameter - *Millimetres at 1.5m above ground level* Branch Spread - *Metres (North, South, East and West)* Crown Clearance - *Metres* RPA Radius - *Metres* Estimated Remaining Contribution - *Years* FSB - First Significant Branch - *Metres*	Y - *Young* SM - *Semi-Mature* EM - *Early Mature* M - *Mature* OM - *Over-Mature* V - *Veteran*	G - *Good* F - *Fair* P - *Poor* D - *Dead*	A - *High (green)* B - *Moderate (blue)* C - *Low (grey)* *U - Poor/Trees for removal (red)* **Sub-Categories:** 1 - *Mainly Arboricultural value* 2 - *Mainly Landscape value* 3 - *Mainly Cultural value*	< - *Less than* ~ - *Approximately* > - *Greater than*
RPA - *Root protection area (equivalent to a circle with a radius 12x the stem diameter measured at 1.5m above ground level)*				

Site: Land at Highfield, Leek
Surveyed by: Hugh Williams
Date: 18/08/2023

Tree Heritage Ltd, Unit 1 Sneyd Mill, Sneyd St, Leek, Staffs, ST13 5HP
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Tree Ref.	Species	Height	Stem Diameter	Branch Spread				Crown Clearance	FSB Height + Direction	Life Stage	Phys. Condition	Structural Condition	Recommendations	Estimated Remaining Contribution	Category Grading	RPA Radius
				N	S	E	W									
T1	Ilex aquifolium 'Argentea Marginata' (Silver Variegated Holly)	10	400	3.5	3.5	3.5	3.5	3	1(E)	M	Fair	Minor deadwood in crown. Some damage from bonfires.	No work required.	10+	C1	4.8
T2	Ilex aquifolium (Holly)	10	300,220, 280	4	4	4	4	3	2(N)	M	Poor	Declining. Decay present on stem. Dieback in crown. One stem is dead and one declining.	No work required.	<10	U	5.59
T3	Taxus baccata (Yew)	10	440	2	4	4	4	2	4(S)	M	Fair	Decay present at base. Major deadwood in crown. Unbalanced crown shape.	No work required.	20+	C1	5.28
T4	Acer pseudoplatanus (Sycamore)	17	750	7	7	7	7	5	4(S)	M	Good	Epicormics on stem. Broken branch/es in crown. Major deadwood in crown.	No work required.	40+	A1	9
T5	Ilex aquifolium (Holly)	12	600	5	5	5	5	2	2(S)	M	Fair	Ivy on stem. Decay present on stem. Major bark wounding on stem.	No work required.	20+	B1	7.2
T6	Acer pseudoplatanus (Sycamore)	17	950	7	7	7	7	5	4(S)	M	Good	Ivy on stem. Epicormics on stem. Major deadwood in crown.	No work required.	40+	A1	11.4
T7	Taxus baccata (Yew)	10	350	4	4	4	4	1	1(N)	EM	Good	Major deadwood in crown.	No work required.	40+	C1	4.2

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Tree Ref.	Species	Height	Stem Diameter	Branch Spread				Crown Clearance	FSB Height + Direction	Life Stage	Phys. Condition	Structural Condition	Recommendations	Estimated Remaining Contribution	Category Grading	RPA Radius
				N	S	E	W									
T8	Acer pseudoplatanus (Sycamore)	17	740	7	7	7	7	5	4(S)	M	Good	Epicormics on stem. Major deadwood in crown.	No work required.	40+	A1	8.88
T9	Prunus lusitanica (Portugal Laurel)	12	360	3	3	3	3	1	2(S)	OM	Poor	Decay present at base. Decay present on stem. Severe decay in stem, tree liable to collapse.	No work required.	<10	U	4.32
T10	Ilex aquifolium (Holly)	12	400	5	5	5	5	2	2(S)	M	Fair	Declining. Minor deadwood in crown.	No work required.	10+	C1	4.8
T11	Sorbus aria (Whitebeam)	12	460	3	5	5	5	6	3(S)	M	Fair	Minor deadwood in crown. Unbalanced crown shape.	No work required.	20+	B1	5.52
T12	Chamaecyparis lawsoniana (Lawson Cypress)	10	300	2	2	2	2	3	4(S)	M	Poor	Leaning South. Tree liable to fail.	No work required.	10+	C1	3.6
T13	Acer platanoides (Norway Maple)	16	280,260	5	5	5	5	3	1(S)	M	Good	Decay present on stem. Major deadwood in crown.	No work required.	20+	B1	4.58
T14	Acer pseudoplatanus (Sycamore)	17	550	7	7	4	4	5	6(S)	M	Good	Major deadwood in crown. Unbalanced crown shape. Crown distorted due to group pressure.	No work required.	20+	B1	6.6
T15	Acer pseudoplatanus (Sycamore)	16	890	7	7	7	7	3	1(S)	M	Good	Minor deadwood in crown.	No work required.	40+	A1	10.68

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Tree Ref.	Species	Height	Stem Diameter	Branch Spread				Crown Clearance	FSB Height + Direction	Life Stage	Phys. Condition	Structural Condition	Recommendations	Estimated Remaining Contribution	Category Grading	RPA Radius
				N	S	E	W									
T16	Ilex aquifolium (Holly)	10	200,200	4	4	4	4	1	1(N)	M	Fair	Suppressed.	No work required.	10+	C1	3.4
T17	Ilex aquifolium (Holly)	10	450	4	4	4	4	1	1(N)	M	Fair	Stem divides below 1.5m. Weak fork.	No work required.	10+	C1	7.63
T18	Acer pseudoplatanus (Sycamore)	16	440	6	6	6	6	3	4(N)	M	Fair	Minor deadwood in crown.	No work required.	20+	B1	5.28
T19	Taxus baccata (Yew)	12	340	4	2	4	4	3	2(S)	M	Fair	Suppressed. Minor deadwood in crown.	No work required.	20+	B1	4.08
T20	Taxus baccata (Yew)	12	340	2	4	4	4	3	2(S)	M	Fair	Suppressed. Minor deadwood in crown.	No work required.	20+	B1	4.08
T21	Ilex aquifolium (Holly)	14	480	4	4	4	2	0.5	2.5(N)	M	Poor	Included bark present in fork. Dieback in crown. Major deadwood in crown.	Monitor.	<10	U	5.76
T22	Ilex aquifolium (Holly)	14	520	5	5	5	5	0.5	2(N)	M	Fair	Included bark present in fork. Decay present on stem. Weak fork.	Monitor.	<10	U	6.24
T23	Prunus spp. (Cherry spp.)	6	440	5	5	5	5	2	1.5(N)	OM	Poor	Declining. Dieback in crown. Major deadwood in crown.	Remove tree.	<10	U	5.28
T24	Acer pseudoplatanus (Sycamore)	14	650	4	7	5	5	2	3(S)	M	Fair	Included bark present in fork. Decay present on stem. Weak fork.	Fell tree on the grounds of safety.	<10	U	7.8
T25	Pinus sylvestris (Scots Pine)	16	500	4	4	4	4	6	6(E)	M	Good	Minor deadwood in crown.	No work required.	40+	A1	6

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Tree Ref.	Species	Height	Stem Diameter	Branch Spread				Crown Clearance	FSB Height + Direction	Life Stage	Phys. Condition	Structural Condition	Recommendations	Estimated Remaining Contribution	Category Grading	RPA Radius
				N	S	E	W									
T26	Pinus sylvestris (Scots Pine)	16	430	3.5	3.5	3.5	3.5	6	6(E)	M	Good	Minor deadwood in crown.	No work required.	40+	A1	5.16
T27	Pinus sylvestris (Scots Pine)	16	480	3.5	3.5	3.5	3.5	6	6(E)	M	Good	Minor deadwood in crown.	No work required.	40+	A1	5.76
T28	Pinus sylvestris (Scots Pine)	16	350	3.5	3.5	3.5	3.5	6	6(E)	M	Good	Minor deadwood in crown.	No work required.	40+	A1	4.2
T29	Pinus sylvestris (Scots Pine)	16	420	3.5	3.5	3.5	3.5	6	6(E)	M	Good	Minor deadwood in crown.	No work required.	40+	A1	5.04
T30	Pinus sylvestris (Scots Pine)	16	500	4	4	4	4	6	6(E)	M	Good	Minor deadwood in crown.	No work required.	40+	A1	6
T31	Pinus sylvestris (Scots Pine)	16	520	4	4	4	4	6	6(E)	M	Good	Minor deadwood in crown.	No work required.	40+	A1	6.24
T32	Salix caprea (Goat Willow)	14	650	4	4	4	4	3	3(E)	OM	Poor	Ivy on stem. Decay present on stem. Minor deadwood in crown.	No work required.	<10	U	7.8
T33	Acer pseudoplatanus (Sycamore)	17	840	7	7	7	7	2	6(E)	M	Fair	Tree located within neighbouring land. Decay present on stem. Cavity on stem. Dieback in crown. Major deadwood in crown.	No work required.	20+	B1	10.08
T34	Chamaecyparis lawsoniana (Lawson Cypress)	12	400,300, 300,250	3	3	3	3	2	2(W)	M	Fair	Tree located within neighbouring land. Minor deadwood in crown.	No work required.	10+	C1	7.61

Site: Land at Highfield, Leek
Surveyed by: Hugh Williams
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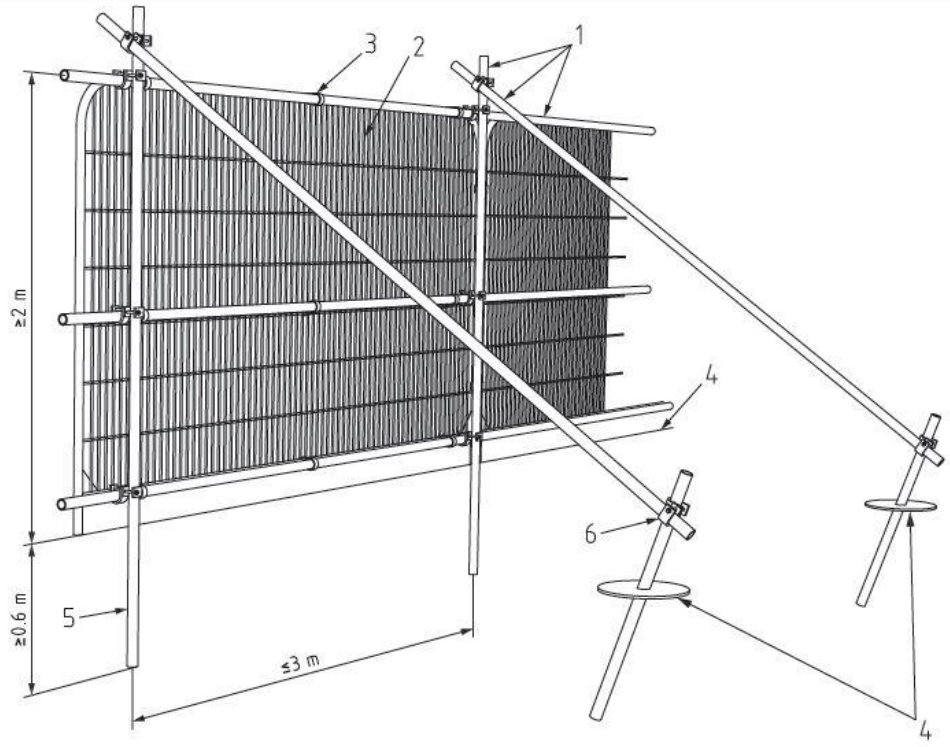
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Tree Ref.	Species	Height	Stem Diameter	Branch Spread				Crown Clearance	FSB Height + Direction	Life Stage	Phys. Condition	Structural Condition	Recommendations	Estimated Remaining Contribution	Category Grading	RPA Radius
				N	S	E	W									
T35	Chamaecyparis lawsoniana (Lawson Cypress)	9	350	2	2	2	2	2	2(W)	M	Poor	Ivy on tree. Minor deadwood in crown.	No work required.	<10	U	4.2
T36	Pinus sylvestris (Scots Pine)	17	600	6	6	6	6	5	5(E)	M	Good	Diameter estimated. Plotted by eye on plan. Ivy on stem. Major deadwood in crown.	No work required.	20+	B1	7.2
T37	Fraxinus excelsior (Ash)	11	250	4	4	4	4	3	3(E)	EM	Fair	Diameter estimated. Plotted by eye on plan. Ivy on stem. Minor deadwood in crown.	No work required.	10+	C1	3

Appendix B i

Figure 2 – Default specification for protective barrier

Figure 2 **Default specification for protective barrier**



Key

1 Standard scaffold poles
2 Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6 m)
6 Standard scaffold clamps



PROTECTIVE FENCING. THIS FENCING MUST BE MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND DRAWINGS FOR THIS DEVELOPMENT.



TREE PROTECTION AREA
KEEP OUT !

TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS

ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY

0 2 4 6 8 10m
1:200

N

Notes:

1. Contractors are advised to check all dimensions against the tree schedule. Tree canopies are symbolic only and are representative of the average spread; this may not represent the true outline. Note that the tree stem may not sit centrally to canopy. Tree stems are symbolic only and are representative of the tree category; this does not represent the stem diameter - see schedule for details.
2. The original of this drawing was produced in colour - a monochrome copy should not be relied upon.

Rev:	Date:	Status/Amendments:	By:

Key:

- Category A Tree / Group
- Category B Tree / Group
- Category C Tree / Group
- Category U Tree / Group
- Branch Spread
- Tree to be Removed
- Root Protection Area (RPA)
- First Significant Branch Direction
- Tree Protection Barrier
- Special Measures
- Tree Shadow

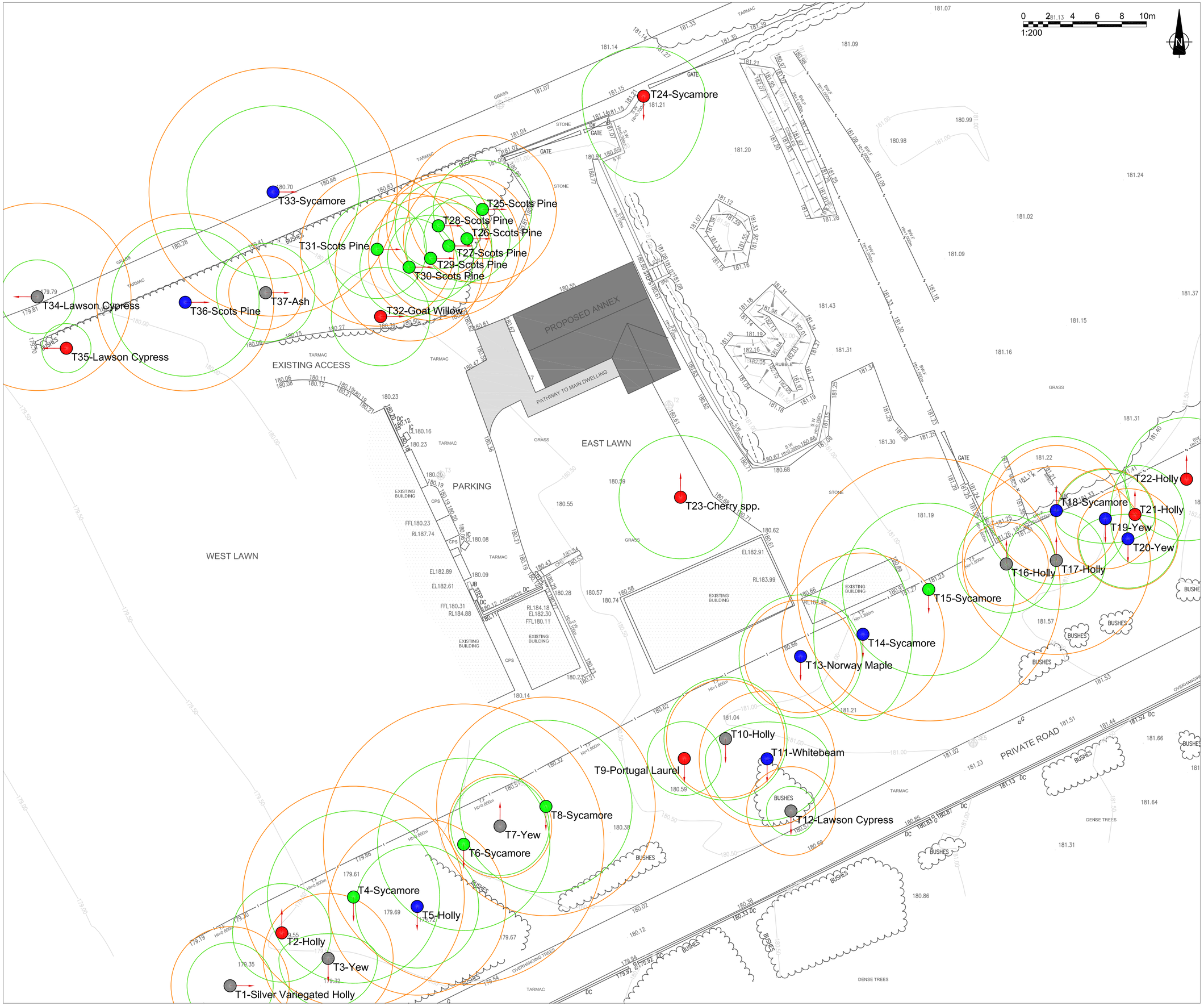
GROWING SINCE 1982
TREE HERITAGE
Tree Heritage Ltd, Unit 1 Sneyd Mill, Sneyd Street, Leek, Staffordshire, ST13 5HP
Telephone: 01538 384019
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Client: Dave Allen

Project: Land at Highfield, Leek

Drawing Title: Tree Constraints Plan

Scale:	Paper Size:
1:200	A2
Drawing Number:	**Date Created:**
THL-1179	21/08/2023



Notes:

1. Contractors are advised to check all dimensions against the tree schedule. Tree canopies are symbolic only and are representative of the average spread; this may not represent the true outline. Note that the tree stem may not sit centrally to canopy. Tree stems are symbolic only and are representative of the tree category; this does not represent the stem diameter - see schedule for details.
2. The original of this drawing was produced in colour - a monochrome copy should not be relied upon.

Rev:	Date:	Status/Amendments:	By:

Key:

- Category A Tree / Group
- Category B Tree / Group
- Category C Tree / Group
- Category U Tree / Group
- Branch Spread
- Tree to be Removed
- Root Protection Area (RPA)
- First Significant Branch Direction
- Tree Protection Barrier
- Special Measures
- Tree Shadow

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Client:
Dave Allen

Project:
Land at Highfield, Leek

Drawing Title:
Arboricultural Impact Assessment

Scale:	Paper Size:
1:200	A2
Drawing Number:	Date Created:
THL-1179-2	04/09/2023

Notes:

1. Contractors are advised to check all dimensions against the tree schedule. Tree canopies are symbolic only and are representative of the average spread; this may not represent the true outline. Note that the tree stem may not sit centrally to canopy. Tree stems are symbolic only and are representative of the tree category; this does not represent the stem diameter - see schedule for details.
2. The original of this drawing was produced in colour - a monochrome copy should not be relied upon.

0 2 4 6 8 10m
1:200

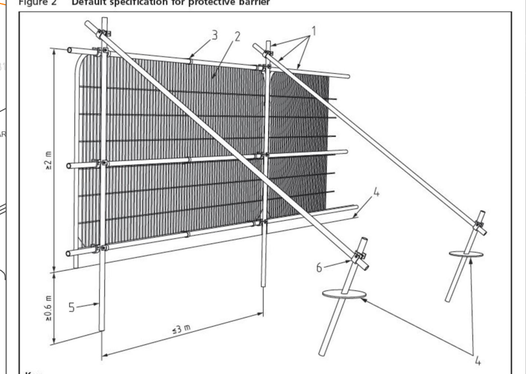
N

T24-Sycamore
T33-Sycamore
T25-Scots Pine
T28-Scots Pine
T26-Scots Pine
T31-Scots Pine
T27-Scots Pine
T29-Scots Pine
T30-Scots Pine
T34-Lawson Cypress
T36-Scots Pine
T37-Ash
T32-Goat Willow
T35-Lawson Cypress
6.56m
6.19m
5.45m
6.16m
T23-Cherry spp.
PROPOSED ANNEX
PATHWAY TO MAIN DWELLING
EXISTING ACCESS
EAST LAWN
WEST LAWN
PARKING
Tree Protection Barriers to be positioned along the edge of existing access

Tree Ref.	RPA Radius (Metres)
T1	4.8
T2	5.59
T3	5.28
T4	9
T5	7.2
T6	11.4
T7	4.2
T8	8.88
T9	4.32
T10	4.8
T11	5.52
T12	3.6
T13	4.58
T14	6.6
T15	10.68
T16	3.4
T17	7.63
T18	5.28
T19	4.08
T20	4.08
T21	5.76
T22	6.24
T23	5.28
T24	7.8
T25	6
T26	5.16
T27	5.76
T28	4.2
T29	5.04
T30	6
T31	6.24
T32	7.8
T33	10.08
T34	7.61
T35	4.2
T36	7.2
T37	3

T22-Holly
T18-Sycamore
T21-Holly
T19-Yew
T20-Yew
T16-Holly
T17-Holly
T15-Sycamore
T14-Sycamore
T13-Norway Maple
T10-Holly
T11-Whitebeam
T9-Portugal Laurel
T12-Lawson Cypress
T8-Sycamore
T7-Yew
T6-Sycamore
T4-Sycamore
T5-Holly
T2-Holly
T3-Yew
T1-Silver Variegated Holly

Figure 2 Default specification for protective barrier



Key
1 Standard scaffold poles
2 Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6 m)
6 Standard scaffold clamps

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Client:
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Project:
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Drawing Title:
Tree Protection Plan

Scale:	Paper Size:
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Drawing Number: THL-1179-3	Date Created: 06/09/2023