



**Arboricultural Survey to BS5837:2012**

**Mr Visha**

**208 Henley Road,  
Berkshire,  
RG4 6LR**

**29 April 2024**

**Rob Dennis L4 DipArb(ABC) TechArborA**

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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 A0, A1, A2 or A3 as appropriate.*

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## 1. Introduction

Arbtech Consulting Limited (Arbtech) received written instruction on 16 April 2024 from Mr Visha to attend 208 Henley Road, Berkshire, Reading, RG4 6LR; grid reference, SU 73030 75314 (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 Rob Dennis, an arboricultural surveyor for Arbtech Consulting Ltd. I undertook the tree survey on 23 April 2024 and subsequently, have produced this summary of my findings.

I hold a L4 Diploma in Arboriculture with over 5 years' experience. I am a technician member of the Arboricultural Association.

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        | 234_PP-001-3 P1                               |
| LPA TPO Reference number   | 07/21 (Reading Borough Council (trees T1-11)) |
| 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 Rob Dennis on 23 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 34No. individual trees, and 4No. groups of trees, 2No. hedges were surveyed. Details for each of the trees surveyed are provided in the Schedule of Trees (see Appendix 2).

Multiple small trees and shrubs occupy the site, none of which meet the minimum diameter requirements to be considered for this survey.

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

| Document            | Originator | Reference Number | Title               |
|---------------------|------------|------------------|---------------------|
| Survey base drawing | Novate ACS | 234_PP-001-3 P1  | -Site Location Plan |

**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.

\* 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

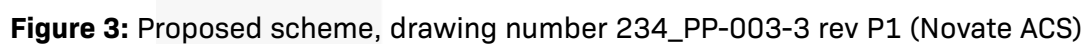
Site is a detached home facing south towards Henley Road, with a long rear garden with maturing and mature trees and shrubs within.



**Figure 1:** OS Map showing site location (Bing Maps)



It is proposed to build a two-storey rear extension and a single storey side extension including a loft conversion.



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

### 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; **U** = <10yrs; **A** = >40yrs; **B** = >20yrs; **C** = >10yrs. The retention subcategory referring to the type of amenity; 1 = Arboricultural; 2 = Landscape; 3 = 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 m<sup>2</sup>), 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

We have not seen the proposed scheme; therefore, we 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.

## 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,



Rob Dennis L4 DipArb (ABC) Tech ArborA  
Arboricultural Surveyor

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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, 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)                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                    |                                                                                                                                        |                        |
| <b>Category U</b><br><br>Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years. | <ul style="list-style-type: none"><li>•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).</li><li>•Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline.</li><li>•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.</li></ul> <i>NOTE Category U trees can have existing or potential conservation value which might be desirable to preserve; see 4.5.7.</i> |                                                                                                                                                                                                                                                                    |                                                                                                                                        | Dark red               |
|                                                                                                                                                                                | <b>1 Mainly arboricultural qualities</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>2 Mainly landscape qualities</b>                                                                                                                                                                                                                                | <b>3 Mainly cultural values, including conservation</b>                                                                                |                        |
| <b>Trees to be considered for retention</b>                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                    |                                                                                                                                        |                        |
| <b>Category A</b><br><br><b>Trees of high quality</b> 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            |
| <b>Category B</b><br><br><b>Trees of moderate quality</b> 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               |
| <b>Category C</b><br><br><b>Trees of low quality</b> 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.

Client: Mr Visha  
 Project: 208 Henley Road, Berkshire, RG4 6LR.  
 Survey Date: 23/04/2024  
 Surveyor: Rob Dennis

Unit 3, Well House Barns  
 Chester road  
 Chester  
 Cheshire  
 CH4 0DH  
 Phone: 01244661170

| Tree and Tag No<br>Species                            | Hght<br>(m) | Stems         |           | Crown         |                   | Age | RP<br>A (m)<br>R (m) | Phys<br>Condition  | Structural<br>Condition | Preliminary Recommendations<br>Survey Comment                                                                                                                                                                                          | Cat<br>ERC                                                 |
|-------------------------------------------------------|-------------|---------------|-----------|---------------|-------------------|-----|----------------------|--------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
|                                                       |             | No            | Ø<br>(mm) | Spread<br>(m) | Clear<br>(m)      |     |                      |                    |                         |                                                                                                                                                                                                                                        |                                                            |
| G1                                                    |             |               |           |               |                   |     |                      |                    |                         | Estimated Measurements                                                                                                                                                                                                                 |                                                            |
| Leyland Cypress<br><i>X Cupressocyparis leylandii</i> | 6           | 1             | 160       | N             | 2                 | 3   | Y                    | A: 11.6<br>R: 1.92 | Fair                    | C: Good<br>S: Fair<br>B: Fair                                                                                                                                                                                                          | C.2<br>10+ yrs                                             |
|                                                       |             |               |           | E             | 2                 | 3   |                      |                    |                         | 6 small trees all competing for light, one of the group has lost 50% of its bark on the whole stem. Growing against the new fence and gravel boards. Historical pruning to raise the canopies. Dimensions taken from the largest stem. |                                                            |
|                                                       |             |               |           | S             | 2                 | 3   |                      |                    |                         |                                                                                                                                                                                                                                        |                                                            |
|                                                       |             |               |           | W             | 2                 | 3   |                      |                    |                         |                                                                                                                                                                                                                                        |                                                            |
| G2                                                    |             |               |           |               |                   |     |                      |                    |                         | Estimated Measurements                                                                                                                                                                                                                 |                                                            |
| Italian Cypress<br><i>Cupressus sempervirens</i>      | 7           | 1             | 80        | N             | 0.5               | 0.5 | SM                   | A: 2.9<br>R: 0.96  | Good                    | C: Good<br>S: Good<br>B: Good                                                                                                                                                                                                          | C.2<br>20+ yrs                                             |
|                                                       |             |               |           | E             | 0.5               | 0.5 |                      |                    |                         | Pair of trees growing within the garden, set approximately 2 meters apart. Western tree has been crown lifted to 2 meters. Dimensions taken from western tree.                                                                         |                                                            |
|                                                       |             |               |           | S             | 0.5               | 0.5 |                      |                    |                         |                                                                                                                                                                                                                                        |                                                            |
|                                                       |             |               |           | W             | 0.5               | 0.5 |                      |                    |                         |                                                                                                                                                                                                                                        |                                                            |
| G3                                                    |             |               |           |               |                   |     |                      |                    |                         | Estimated Measurements                                                                                                                                                                                                                 |                                                            |
| Various<br><i>See comments for details</i>            | 5           | 1             | 150       | N             | 2                 | 0   | Y                    | A: 10.2<br>R: 1.8  | Good                    | C: Good<br>S: Good<br>B: Good                                                                                                                                                                                                          | C.1.2<br>10+ yrs                                           |
|                                                       |             |               |           | E             | 2                 | 0   |                      |                    |                         | Small group set in a formal border beside the garden footpath. Consisting of but not limited to, Acer, redwood, Aucuba japonica and cypress.                                                                                           |                                                            |
|                                                       |             |               |           | S             | 3                 | 0   |                      |                    |                         |                                                                                                                                                                                                                                        |                                                            |
|                                                       |             |               |           | W             | 2                 | 0   |                      |                    |                         |                                                                                                                                                                                                                                        |                                                            |
| G4                                                    |             |               |           |               |                   |     |                      |                    |                         | Estimated Measurements                                                                                                                                                                                                                 |                                                            |
| Various<br><i>See comments for details</i>            | 8           | 1             | 150       | N             | 2                 | 0   | SM                   | A: 10.2<br>R: 1.8  | Good                    | C: Good<br>S: Good<br>B: Not visible                                                                                                                                                                                                   | C.2<br>10+ yrs                                             |
|                                                       |             |               |           | E             | 2                 | 0   |                      |                    |                         | Group consisting of but not limited to, privet, holly, laurel, strawberry tree, mahonia, common lilac, guelder rose, ivy and pine. Running to the southern border of the front garden.                                                 |                                                            |
|                                                       |             |               |           | S             | 2                 | 0   |                      |                    |                         |                                                                                                                                                                                                                                        |                                                            |
|                                                       |             |               |           | W             | 2                 | 0   |                      |                    |                         |                                                                                                                                                                                                                                        |                                                            |
| <b>Age Classifications:</b>                           | N           | Newly planted | EM        | Early Mature  | <b>Condition:</b> |     | C                    | Crown              | <b>Stems:</b> Ø         |                                                                                                                                                                                                                                        | Diameter                                                   |
|                                                       | Y           | Young         | M         | Mature        |                   |     | S                    | Stem               |                         |                                                                                                                                                                                                                                        | (Eq) Equivalent stem diameter using BS5837:2012 definition |
|                                                       | SM          | Semi-mature   | OM        | Over Mature   |                   |     | B                    | Basal area         | <b>ERC:</b>             |                                                                                                                                                                                                                                        | Estimated Remaining Contribution                           |

| Tree and Tag No<br>Species                                                                                 | Hght<br>(m) | Stems |           | Crown            |                          | Age                    | RP<br>A (m <sup>2</sup> )<br>R (m) | Phys<br>Condition | Structural<br>Condition              | Preliminary Recommendations<br>Survey Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cat<br>ERC     |
|------------------------------------------------------------------------------------------------------------|-------------|-------|-----------|------------------|--------------------------|------------------------|------------------------------------|-------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|                                                                                                            |             | No    | Ø<br>(mm) | Spread<br>(m)    | Clear<br>(m)             |                        |                                    |                   |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |
| H1                                                                                                         |             |       |           |                  |                          |                        |                                    |                   |                                      | Estimated Measurements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |
| Various<br><i>See comments for details</i>                                                                 | 6           | 1     | 80        | N<br>E<br>S<br>W | 0.5<br>0.5<br>0.5<br>0.5 | 0<br>0<br>0<br>0       | Y<br><br>A: 2.9<br>R: 0.96         | Good              | C: Good<br>S: Good<br>B: Not visible | Dividing hedgerow consisting of but not limited to, cypress and common lilac.                                                                                                                                                                                                                                                                                                                                                                                                                                           | C.2<br>20+ yrs |
| H2                                                                                                         |             |       |           |                  |                          |                        |                                    |                   |                                      | Estimated Measurements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |
| Cherry Laurel<br><i>Prunus laurocerasus</i>                                                                | 3.5         | 1     | 150       | N<br>E<br>S<br>W | 1<br>1<br>1<br>1         | 0<br>0<br>0<br>0       | SM<br><br>A: 10.2<br>R: 1.8        | Good              | C: Good<br>S: Good<br>B: Good        | Out growing laurel hedgerow dividing properties.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C.2<br>20+ yrs |
| T1                                                                                                         |             |       |           |                  |                          |                        |                                    |                   |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |
| Sycamore<br><i>Acer pseudoplatanus</i>                                                                     | 14          | 1     | 540       | N<br>E<br>S<br>W | 5<br>3<br>4.5<br>4.5     | 3.5<br>8<br>3.5<br>3.5 | EM<br><br>A: 131.9<br>R: 6.47      | Good              | C: Fair<br>S: Good<br>B: Good        | Tree growing on the northern boundary. Same species neighbour to its east has suppressed the easterly crown. Included bark and natural cross bracing throughout the canopy. Neighbouring tree has full canopy leaf cover already, this tree has virtually no leaf breakout yet. Minor deadwood throughout the canopy. Vegetation clearance around the tree has taken place. On the northern stem aspect there is barbed wire included in the bark. On the northern aspect there has been historical pruning operations. | B.2<br>20+ yrs |
| T2                                                                                                         |             |       |           |                  |                          |                        |                                    |                   |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |
| Sycamore<br><i>Acer pseudoplatanus</i>                                                                     | 14          | 1     | 650       | N<br>E<br>S<br>W | 8<br>7<br>7<br>3         | 4<br>5<br>4<br>8       | EM<br><br>A: 191.2<br>R: 7.8       | Good              | C: Good<br>S: Fair<br>B: Fair        | Tree growing on northern boundary, same species neighbour to its west. Western canopy is suppressed due to this. Southern aspect of the basal area has an open water filled hollow, approximately 200mm deep. Codominant stems at approximately 1.8 meters northern stem has historically had pruning operations and has exposed decayed wood. Minor and major deadwood throughout the canopy.                                                                                                                          | B.2<br>20+ yrs |
| <b>Age Classifications:</b> N Newly planted EM Early Mature Y Young M Mature SM Semi-mature OM Over Mature |             |       |           |                  |                          |                        |                                    |                   |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |
| <b>Condition:</b> C Crown S Stem B Basal area                                                              |             |       |           |                  |                          |                        |                                    |                   |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |
| <b>Stems:</b> Ø Diameter<br>(Eq) Equivalent stem diameter using BS5837:2012 definition                     |             |       |           |                  |                          |                        |                                    |                   |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |
| <b>ERC:</b> Estimated Remaining Contribution                                                               |             |       |           |                  |                          |                        |                                    |                   |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |

| Tree and Tag No<br>Species                          | Hght<br>(m) | Stems         |           | Crown         |              | Age | RP<br>A (m²)<br>R (m) | Phys<br>Condition   | Structural<br>Condition | Preliminary Recommendations<br>Survey Comment                                                                                                                                                   | Cat<br>ERC                                            |
|-----------------------------------------------------|-------------|---------------|-----------|---------------|--------------|-----|-----------------------|---------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
|                                                     |             | No            | Ø<br>(mm) | Spread<br>(m) | Clear<br>(m) |     |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
| T3                                                  |             |               |           |               |              |     |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
| Grand Fir<br><i>Abies grandis</i>                   | 16          | 1             | 480       | N             | 2            | 9   | EM                    | A: 104.2<br>R: 5.75 | Good                    | C: Good<br>S: Good<br>B: Good                                                                                                                                                                   | B.2<br>40+ yrs                                        |
|                                                     |             |               |           | E             | 2            | 9   |                       |                     |                         | Typical growth pattern of species growing with other trees close to it, tall, upper crown and canopy with little canopy below the upper few meters. Vegetation clearance around the basal area. |                                                       |
|                                                     |             |               |           | S             | 2.5          | 9   |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
|                                                     |             |               |           | W             | 2.5          | 9   |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
| T4                                                  |             |               |           |               |              |     |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
| Red Fir<br><i>Abies magnifica</i>                   | 14          | 1             | 300       | N             | 4            | 3   | SM                    | A: 40.7<br>R: 3.59  | Good                    | C: Good<br>S: Good<br>B: Good                                                                                                                                                                   | B.2<br>20+ yrs                                        |
|                                                     |             |               |           | E             | 4            | 3   |                       |                     |                         | Tree growing with mixed species neighbours within 2 meters. Recent new fence and gravel boards has been placed 1.3 meters from the western stem. Ivy into canopy.                               |                                                       |
|                                                     |             |               |           | S             | 1.5          | 6   |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
|                                                     |             |               |           | W             | 4            | 3   |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
| T5                                                  |             |               |           |               |              |     |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
| Wellingtonia<br><i>Sequoiadendron giganteum</i>     | 17          | 1             | 580       | N             | 2.5          | 9   | SM                    | A: 152.2<br>R: 6.96 | Good                    | C: Good<br>S: Good<br>B: Good                                                                                                                                                                   | A.2<br>40+ yrs                                        |
|                                                     |             |               |           | E             | 3            | 6   |                       |                     |                         | New fence and gravel boards with 0.5 meter of the western basal area. Good crown and canopy with expected stem quality.                                                                         |                                                       |
|                                                     |             |               |           | S             | 3            | 6   |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
|                                                     |             |               |           | W             | 4            | 3   |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
| T6                                                  |             |               |           |               |              |     |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
| Paperbark Maple<br><i>Acer griseum</i>              | 10          | 3             | 297 (Eq)  | N             | 4            | 6   | EM                    | A: 40<br>R: 3.56    | Good                    | C: Good<br>S: Good<br>B: Good                                                                                                                                                                   | B.2<br>20+ yrs                                        |
|                                                     |             |               |           | E             | 3.5          | 6   |                       |                     |                         | Included bark fork unions at codominant stem growth points. Natural cross bracing throughout the canopy.                                                                                        |                                                       |
|                                                     |             |               |           | S             | 3            | 6   |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
|                                                     |             |               |           | W             | 3.5          | 6   |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
| T7                                                  |             |               |           |               |              |     |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
| Dawn Redwood<br><i>Metasequoia glyptostroboides</i> | 12          | 1             | 290       | N             | 3            | 6   | SM                    | A: 38.1<br>R: 3.48  | Good                    | C: Good<br>S: Good<br>B: Good                                                                                                                                                                   | B.1.2<br>20+ yrs                                      |
|                                                     |             |               |           | E             | 2.5          | 6   |                       |                     |                         | New fence and gravel boards 2.1 meters from the western basal area. Historical pruning on the lower stem has occluded, minor deadwood throughout the canopy.                                    |                                                       |
|                                                     |             |               |           | S             | 3            | 6   |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
|                                                     |             |               |           | W             | 3            | 6   |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
| T8                                                  |             |               |           |               |              |     |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
| Dove Tree<br><i>Davidia involucrata</i>             | 10          | 1             | 220       | N             | 4            | 2   | SM                    | A: 21.9<br>R: 2.64  | Good                    | C: Fair<br>S: Good<br>B: Good                                                                                                                                                                   | B.1<br>20+ yrs                                        |
|                                                     |             |               |           | E             | 2            | 5   |                       |                     |                         | Suppressed southern aspect crown by neighbouring tree. Deadwood on the south easterly aspect.                                                                                                   |                                                       |
|                                                     |             |               |           | S             | 2.5          | 2.5 |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
|                                                     |             |               |           | W             | 3            | 2.5 |                       |                     |                         |                                                                                                                                                                                                 |                                                       |
| Age Classifications:                                | N           | Newly planted | EM        | Early Mature  |              |     | Condition:            | C                   | Crown                   | Stems: Ø                                                                                                                                                                                        | Diameter                                              |
|                                                     | Y           | Young         | M         | Mature        |              |     |                       | S                   | Stem                    | (Eq)                                                                                                                                                                                            | Equivalent stem diameter using BS5837:2012 definition |
|                                                     | SM          | Semi-mature   | OM        | Over Mature   |              |     |                       | B                   | Basal area              | ERC:                                                                                                                                                                                            | Estimated Remaining Contribution                      |

| Tree and Tag No<br>Species                                                                                                                                                                                                                                                 | Hght<br>(m) | Stems |           | Crown            |                        | Age                  | RP<br>A (m²)<br>R (m)     | Phys<br>Condition | Structural<br>Condition       | Preliminary Recommendations<br>Survey Comment                                                                                                                                                                                                                                                                       | Cat<br>ERC       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|-----------|------------------|------------------------|----------------------|---------------------------|-------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|                                                                                                                                                                                                                                                                            |             | No    | Ø<br>(mm) | Spread<br>(m)    | Clear<br>(m)           |                      |                           |                   |                               |                                                                                                                                                                                                                                                                                                                     |                  |
| T9                                                                                                                                                                                                                                                                         |             |       |           |                  |                        |                      |                           |                   |                               |                                                                                                                                                                                                                                                                                                                     |                  |
| Norway Maple<br><i>Acer platanoides</i>                                                                                                                                                                                                                                    | 14          | 1     | 570       | N<br>E<br>S<br>W | 8<br>8<br>5<br>5.5     | 4<br>4<br>5<br>6     | EM<br>A: 147<br>R: 6.84   | Good              | C: Good<br>S: Good<br>B: Good | Crimson King cultivar, codominant stems at 1.3 meters. At the stem formation point there is included bark and a decayed pruning wound. At 2 meters on the western stem there is mistletoe growing out of an old occluded pruning wound. Roof tiles are piled around the base. Minor deadwood throughout the canopy. | B.1.2<br>20+ yrs |
| T10                                                                                                                                                                                                                                                                        |             |       |           |                  |                        |                      |                           |                   |                               |                                                                                                                                                                                                                                                                                                                     |                  |
| Chinese Cedar<br><i>Cedrela sinensis</i>                                                                                                                                                                                                                                   | 14          | 1     | 530       | N<br>E<br>S<br>W | 3.5<br>5<br>6<br>5.5   | 7<br>6<br>6<br>6     | EM<br>A: 127.1<br>R: 6.36 | Fair              | C: Fair<br>S: Good<br>B: Fair | Root girdled tree, yet to breakout in leaf, small buds are opening, major and minor deadwood throughout. Growing beside the eastern fence line.                                                                                                                                                                     | B.2<br>20+ yrs   |
| T11                                                                                                                                                                                                                                                                        |             |       |           |                  |                        |                      |                           |                   |                               |                                                                                                                                                                                                                                                                                                                     |                  |
| Sycamore<br><i>Acer pseudoplatanus</i>                                                                                                                                                                                                                                     | 9           | 1     | 220       | N<br>E<br>S<br>W | 3.5<br>3.5<br>3.5<br>3 | 6<br>6<br>4<br>6     | SM<br>A: 21.9<br>R: 2.64  | Good              | C: Good<br>S: Good<br>B: Good | Historically crown lifted to 6 meters on north, west and eastern aspects, included fork unions throughout the crown.                                                                                                                                                                                                | C.2<br>20+ yrs   |
| T12                                                                                                                                                                                                                                                                        |             |       |           |                  |                        |                      |                           |                   |                               |                                                                                                                                                                                                                                                                                                                     |                  |
| Black Poplar<br><i>Populus nigra var betulifolia</i>                                                                                                                                                                                                                       | 15          | 1     | 650       | N<br>E<br>S<br>W | 1.5<br>1.5<br>3<br>3   | 5<br>5<br>5<br>5     | M<br>A: 191.2<br>R: 7.8   | Decline           | C: Fair<br>S: Poor<br>B: Poor | Tree basal area open and fully decayed into the heartwood, decay reaching approximately 0.7 meter deep from the outer cambium. The decay is vertical to over 2.5 meters. Southern stem has a decay opening with a vertical, partially occluded wound. The tree has historically been managed as a pollard.          | U<br><10 yrs     |
| T13                                                                                                                                                                                                                                                                        |             |       |           |                  |                        |                      |                           |                   |                               |                                                                                                                                                                                                                                                                                                                     |                  |
| Douglas Fir<br><i>Pseudotsuga menziesii</i>                                                                                                                                                                                                                                | 14          | 1     | 270       | N<br>E<br>S<br>W | 3<br>3<br>1.5<br>3     | 10<br>10<br>10<br>10 | SM<br>A: 33<br>R: 3.24    | Good              | C: Fair<br>S: Good<br>B: Good | Suppressed tree by southern neighbour, weak and sparse canopy, little southern crown development.                                                                                                                                                                                                                   | C.2<br>20+ yrs   |
| <b>Age Classifications:</b> N Newly planted EM Early Mature Condition: C Crown Stems: Ø Diameter<br>Y Young M Mature S Stem (Eq) Equivalent stem diameter using BS5837:2012 definition<br>SM Semi-mature OM Over Mature B Basal area ERC: Estimated Remaining Contribution |             |       |           |                  |                        |                      |                           |                   |                               |                                                                                                                                                                                                                                                                                                                     |                  |

| Tree and Tag No<br>Species                                                                                                                                                                                                                                                                                  | Hght<br>(m) | Stems |           | Crown            |                          | Age | RP<br>A (m²)<br>R (m)    | Phys<br>Condition | Structural<br>Condition       | Preliminary Recommendations<br>Survey Comment                                                                                                                                           | Cat<br>ERC     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|-----------|------------------|--------------------------|-----|--------------------------|-------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|                                                                                                                                                                                                                                                                                                             |             | No    | Ø<br>(mm) | Spread<br>(m)    | Clear<br>(m)             |     |                          |                   |                               |                                                                                                                                                                                         |                |
| T14                                                                                                                                                                                                                                                                                                         |             |       |           |                  |                          |     |                          |                   |                               |                                                                                                                                                                                         |                |
| Lawson Cypress<br><i>Chamaecyparis lawsoniana</i>                                                                                                                                                                                                                                                           | 14          | 1     | 370       | N<br>E<br>S<br>W | 3<br>3<br>3<br>3         | 3   | EM<br>A: 61.9<br>R: 4.43 | Good              | C: Good<br>S: Good<br>B: Fair | New fence and gravel boards fitted over the western basal area. Soil disturbed around the whole tree.                                                                                   | B.2<br>20+ yrs |
| T15                                                                                                                                                                                                                                                                                                         |             |       |           |                  |                          |     |                          |                   |                               |                                                                                                                                                                                         |                |
| Sycamore<br><i>Acer pseudoplatanus</i>                                                                                                                                                                                                                                                                      | 10          | 1     | 220       | N<br>E<br>S<br>W | 3<br>3<br>2<br>2         | 5   | SM<br>A: 21.9<br>R: 2.64 | Good              | C: Fair<br>S: Fair<br>B: Fair | Suppressed tree by southern neighbour, growing easterly aspect, codominant stem growth at 3 meters with included bark. Soil disturbance around the basal area.                          | C.2<br>20+ yrs |
| T16                                                                                                                                                                                                                                                                                                         |             |       |           |                  |                          |     |                          |                   |                               |                                                                                                                                                                                         |                |
| Monterey Cypress<br><i>Cupressus macrocarpa</i>                                                                                                                                                                                                                                                             | 11          | 1     | 220       | N<br>E<br>S<br>W | 1.5<br>2.5<br>2.5<br>2.5 | 7   | SM<br>A: 21.9<br>R: 2.64 | Good              | C: Fair<br>S: Good<br>B: Good | No crown development on the northern aspect until the upper 2 meters of the canopy, deadwood throughout the crown and canopy. Bird box on the northern stem at 2.5 meters.              | C.2<br>20+ yrs |
| T17                                                                                                                                                                                                                                                                                                         |             |       |           |                  |                          |     |                          |                   |                               |                                                                                                                                                                                         |                |
| Austrian Pine<br><i>Pinus nigra ssp. Nigra</i>                                                                                                                                                                                                                                                              | 11          | 1     | 300       | N<br>E<br>S<br>W | 2<br>2<br>2<br>2         | 7   | SM<br>A: 40.7<br>R: 3.59 | Fair              | C: Fair<br>S: Good<br>B: Good | Weak appearance to the upper canopy, abundant large cones, deadwood throughout.                                                                                                         | C.2<br>20+ yrs |
| T18                                                                                                                                                                                                                                                                                                         |             |       |           |                  |                          |     |                          |                   |                               |                                                                                                                                                                                         |                |
| Field Maple<br><i>Acer campestre</i>                                                                                                                                                                                                                                                                        | 11          | 1     | 190       | N<br>E<br>S<br>W | 4<br>4<br>4.5<br>2.5     | 2   | SM<br>A: 16.3<br>R: 2.27 | Good              | C: Good<br>S: Good<br>B: Good | Suppressed tree by neighbouring conifers. Child's swing hanging from the lowest eastern limb. Main stem has a large open decayed section at approximately 3 meters on the eastern side. | C.2<br>20+ yrs |
| T19                                                                                                                                                                                                                                                                                                         |             |       |           |                  |                          |     |                          |                   |                               |                                                                                                                                                                                         |                |
| Monterey Cypress<br><i>Cupressus macrocarpa</i>                                                                                                                                                                                                                                                             | 10          | 1     | 360       | N<br>E<br>S<br>W | 2.5<br>2.5<br>3<br>3     | 3   | SM<br>A: 58.6<br>R: 4.31 | Poor              | C: Poor<br>S: Fair<br>B: Good | Approximately 50% of the canopy has died back, grape vine through canopy and lower crown.                                                                                               | C.2<br>10+ yrs |
| <b>Age Classifications:</b> N Newly planted EM Early Mature<br>Y Young M Mature<br>SM Semi-mature OM Over Mature <b>Condition:</b> C Crown<br>S Stem<br>B Basal area <b>Stems:</b> Ø Diameter<br>(Eq) Equivalent stem diameter using BS5837:2012 definition<br><b>ERC:</b> Estimated Remaining Contribution |             |       |           |                  |                          |     |                          |                   |                               |                                                                                                                                                                                         |                |

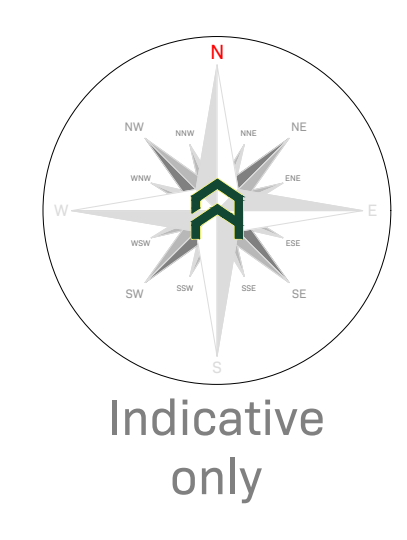
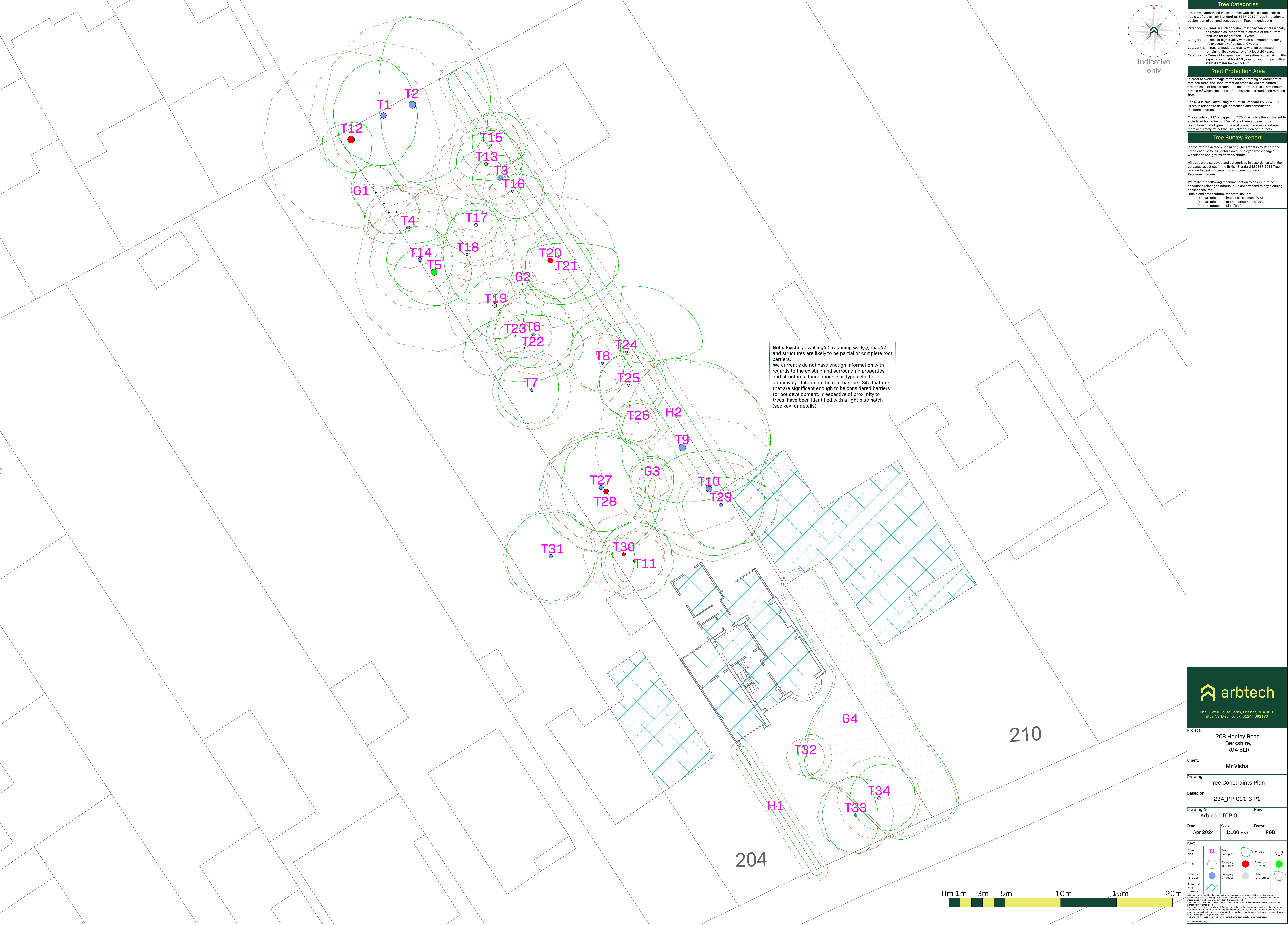
| Tree and Tag No<br>Species                                                                                                                                                                                                                                                                                                        | Hght<br>(m) | Stems |           | Crown            |                    | Age                | RP<br>A (m²)<br>R (m)    | Phys<br>Condition | Structural<br>Condition              | Preliminary Recommendations<br>Survey Comment                                                                                                        | Cat<br>ERC                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|-----------|------------------|--------------------|--------------------|--------------------------|-------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
|                                                                                                                                                                                                                                                                                                                                   |             | No    | Ø<br>(mm) | Spread<br>(m)    | Clear<br>(m)       |                    |                          |                   |                                      |                                                                                                                                                      |                             |
| T20                                                                                                                                                                                                                                                                                                                               |             |       |           |                  |                    |                    |                          |                   |                                      |                                                                                                                                                      |                             |
| Wild Cherry<br><i>Prunus avium</i>                                                                                                                                                                                                                                                                                                | 6           | 3     | 492 (Eq)  | N<br>E<br>S<br>W | 1.5<br>6<br>4<br>3 | 0<br>0<br>0<br>0   | OM<br>A: 109.5<br>R: 5.9 | Dead              | C: Not visible<br>S: Poor<br>B: Poor | Dead cherry tree. Oak growing against the eastern stem. Eastern stem appears to be in the process of detaching from the two other stems.             | <b>U</b><br><br><10 yrs     |
| T21                                                                                                                                                                                                                                                                                                                               |             |       |           |                  |                    |                    |                          |                   |                                      |                                                                                                                                                      |                             |
| Common Oak<br><i>Quercus robur</i>                                                                                                                                                                                                                                                                                                | 10          | 1     | 170       | N<br>E<br>S<br>W | 3<br>3<br>3<br>3   | 5<br>5<br>5<br>5   | Y<br>A: 13.1<br>R: 2.04  | Good              | C: Good<br>S: Good<br>B: Fair        | Growing out from under a dead standing cherry tree. Basal area turns at an angle to correct and grow vertical.                                       | <b>C.2</b><br><br>20+ yrs   |
| T22                                                                                                                                                                                                                                                                                                                               |             |       |           |                  |                    |                    |                          |                   |                                      |                                                                                                                                                      |                             |
| Witch Hazel<br><i>Hamamelis virginiana</i>                                                                                                                                                                                                                                                                                        | 8           | 1     | 150       | N<br>E<br>S<br>W | 3<br>5<br>3<br>6   | 3<br>2.5<br>3<br>5 | SM<br>A: 10.2<br>R: 1.8  | Good              | C: Good<br>S: Fair<br>B: Fair        | Contorted growth competing for light with neighbouring trees. Exposed roots on the southern basal area, new fence and gravel boards 2.3 meters west. | <b>C.2</b><br><br>10+ yrs   |
| T23                                                                                                                                                                                                                                                                                                                               |             |       |           |                  |                    |                    |                          |                   |                                      |                                                                                                                                                      |                             |
| Coast Redwood<br><i>Sequoia sempervirens</i>                                                                                                                                                                                                                                                                                      | 6           | 2     | 121 (Eq)  | N<br>E<br>S<br>W | 3<br>3<br>2<br>3   | 2<br>2<br>3<br>2   | Y<br>A: 6.6<br>R: 1.44   | Good              | C: Fair<br>S: Good<br>B: Good        | Tree competing with neighbouring trees for light. Historical pruning on the lower stem.                                                              | <b>C.1.2</b><br><br>40+ yrs |
| T24                                                                                                                                                                                                                                                                                                                               |             |       |           |                  |                    |                    |                          |                   |                                      |                                                                                                                                                      |                             |
| Tupelo<br><i>Nyssa sylvatica</i>                                                                                                                                                                                                                                                                                                  | 8           | 1     | 220       | N<br>E<br>S<br>W | 6<br>7<br>1<br>0.5 | 4<br>4<br>3<br>5   | SM<br>A: 21.9<br>R: 2.64 | Good              | C: Fair<br>S: Good<br>B: Good        | Main canopy has grown out phototropically east with no western canopy development. Minor deadwood throughout.                                        | <b>C.2</b><br><br>10+ yrs   |
| T25                                                                                                                                                                                                                                                                                                                               |             |       |           |                  |                    |                    |                          |                   |                                      |                                                                                                                                                      |                             |
| Sweetgum<br><i>Liquidamber styraciflua</i>                                                                                                                                                                                                                                                                                        | 10          | 2     | 227 (Eq)  | N<br>E<br>S<br>W | 3<br>3<br>3<br>3   | 6<br>6<br>5<br>3   | SM<br>A: 23.3<br>R: 2.72 | Fair              | C: Fair<br>S: Good<br>B: Good        | Weak canopy development with major and minor deadwood throughout. Codominant stem growth at 1 meter.                                                 | <b>C.2</b><br><br>20+ yrs   |
| <b>Age Classifications:</b> N   Newly planted   EM   Early Mature <b>Condition:</b> C   Crown <b>Stems:</b> Ø   Diameter<br>Y   Young   M   Mature   S   Stem   (Eq)   Equivalent stem diameter using BS5837:2012 definition<br>SM   Semi-mature   OM   Over Mature   B   Basal area <b>ERC:</b> Estimated Remaining Contribution |             |       |           |                  |                    |                    |                          |                   |                                      |                                                                                                                                                      |                             |

| Tree and Tag No<br>Species                                                                                                                                                                                                                                                                                     | Hght<br>(m) | Stems |           | Crown            |                      | Age | RP<br>A (m²)<br>R (m)    | Phys<br>Condition | Structural<br>Condition              | Preliminary Recommendations<br>Survey Comment                                                                                                                                                                                                                         | Cat<br>ERC              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|-----------|------------------|----------------------|-----|--------------------------|-------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
|                                                                                                                                                                                                                                                                                                                |             | No    | Ø<br>(mm) | Spread<br>(m)    | Clear<br>(m)         |     |                          |                   |                                      |                                                                                                                                                                                                                                                                       |                         |
| T26                                                                                                                                                                                                                                                                                                            |             |       |           |                  |                      |     |                          |                   |                                      |                                                                                                                                                                                                                                                                       |                         |
| Monkey Puzzle Tree<br><i>Araucaria araucana</i>                                                                                                                                                                                                                                                                | 4.5         | 1     | 140       | N<br>E<br>S<br>W | 2<br>2<br>2<br>2     | 0   | Y<br>A: 8.9<br>R: 1.68   | Good              | C: Good<br>S: Good<br>B: Good        | Stem diameter estimated, lower limbs have died back and are resting on the ground.                                                                                                                                                                                    | <b>B.2</b><br>20+ yrs   |
| T27                                                                                                                                                                                                                                                                                                            |             |       |           |                  |                      |     |                          |                   |                                      |                                                                                                                                                                                                                                                                       |                         |
| Bhutan Pine<br><i>Pinus wallichiana</i>                                                                                                                                                                                                                                                                        | 14          | 1     | 400       | N<br>E<br>S<br>W | 5<br>4<br>4<br>3.5   | 2.5 | EM<br>A: 72.4<br>R: 4.8  | Good              | C: Good<br>S: Good<br>B: Fair        | Tree growing 0.5 meter from neighbouring tree, leaning to the east before vertically correcting itself. Approximately 1.5 meters to the west of the basal area, a new fence and gravel boards have been fitted, approximately 0.5 meter below the current soil level. | <b>B.1.2</b><br>20+ yrs |
| T28                                                                                                                                                                                                                                                                                                            |             |       |           |                  |                      |     |                          |                   |                                      |                                                                                                                                                                                                                                                                       |                         |
| Robinia<br><i>Robinia pseudoacacia</i>                                                                                                                                                                                                                                                                         | 12          | 1     | 460       | N<br>E<br>S<br>W | 5<br>5<br>5.5<br>6   | 5   | EM<br>A: 95.7<br>R: 5.51 | Fair              | C: Good<br>S: Poor<br>B: Fair        | Codominant stems from 2 meters, at the stem joint there is decay and loose bark beyond reach with a mallet, down the stem to the main bole stopping approximately 0.5 meter from ground level, exposed decayed heartwood visible. Mistletoe in upper crown.           | <b>U</b><br><10 yrs     |
| T29                                                                                                                                                                                                                                                                                                            |             |       |           |                  |                      |     |                          |                   |                                      |                                                                                                                                                                                                                                                                       |                         |
| Norway Maple<br><i>Acer platanoides</i>                                                                                                                                                                                                                                                                        | 12          | 1     | 250       | N<br>E<br>S<br>W | 2.5<br>5<br>4<br>3.5 | 6   | EM<br>A: 28.3<br>R: 3    | Fair              | C: Fair<br>S: Good<br>B: Fair        | Codominant stems, with natural bracing throughout, leaf colour reverting to solid green from a variegated cultivar. Minor deadwood within the canopy. Basal area has root girdled.                                                                                    | <b>B.1.2</b><br>20+ yrs |
| T30                                                                                                                                                                                                                                                                                                            |             |       |           |                  |                      |     |                          |                   |                                      |                                                                                                                                                                                                                                                                       |                         |
| Unknown<br>--                                                                                                                                                                                                                                                                                                  | 3           | 3     | 297 (Eq)  | N<br>E<br>S<br>W | 1.5<br>1<br>2.5<br>1 | 0   | Dead<br>A: 40<br>R: 3.56 | Dead              | C: Not visible<br>S: Poor<br>B: Poor | Dead stem.                                                                                                                                                                                                                                                            | <b>U</b><br><10 yrs     |
| <b>Age Classifications:</b> N Newly planted<br>Y Young<br>SM Semi-mature EM Early Mature<br>M Mature<br>OM Over Mature <b>Condition:</b> C Crown<br>S Stem<br>B Basal area <b>Stems:</b> Ø Diameter<br>(Eq) Equivalent stem diameter using BS5837:2012 definition <b>ERC:</b> Estimated Remaining Contribution |             |       |           |                  |                      |     |                          |                   |                                      |                                                                                                                                                                                                                                                                       |                         |



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## Appendix 3: Tree Constraints Plan



**Tree Categories**

These are categorised in accordance with the cascade chart in Table 3 of the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'

Category 'A' - 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 'B' - Trees of high quality with an estimated remaining life expectancy of at least 40 years.

Category 'C' - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.

Category 'D' - 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) are plotted around each of the category 'A, B and 'C' trees. This is a minimum area in m<sup>2</sup> 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 707m<sup>2</sup>, 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 Arbttech Consulting Ltd. Tree Survey Report and Tree Schedule for full details on all surveyed trees, hedges, woodlands and groups of trees/shrubs.

All trees were surveyed and categorised in accordance with the guidance as set out in the British Standard BS5837:2012 'Trees 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).
- c) A tree protection plan (TPP).



Unit 3, Well House Barns, Chester, CH4 0DH  
<https://arbttech.co.uk>, 01244 601170

Project:

208 Henley Road,  
Berkshire,  
RG4 6LR

Client:

Mr Visha

Drawing:

Tree Constraints Plan

Based on:

234\_PP-001-3 P1

Drawing No:

Arbttech TCP 01

Rev:

Date:

Apr 2024

Scale:

1:100 @ A0

Drawn:

RGD

Key:

|                          |    |                     |  |                     |  |
|--------------------------|----|---------------------|--|---------------------|--|
| Tree No.:                | T1 | Tree Canopies:      |  | Trunks:             |  |
| RPAs:                    |    | Category 'A' trees: |  | Category 'A' trees: |  |
| Category 'B' trees:      |    | Category 'C' trees: |  | Category 'C' trees: |  |
| Potential root barriers: |    |                     |  |                     |  |

Arbttech Consulting Ltd. 2024

## 9. Document Production Record

| Document number | Editor     | Signature                                                                         | Position                | Issue number | Date     |
|-----------------|------------|-----------------------------------------------------------------------------------|-------------------------|--------------|----------|
| Arbtech TSR 01  | Rob Dennis |  | Arboricultural Surveyor | 01           | 29/04/24 |

### Limitations

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| Tree and Tag No<br>Species                     | Hght<br>(m) | Stems |           | Crown         |              | Age | RP<br>A (m²)<br>R (m) | Phys<br>Condition  | Structural<br>Condition | Preliminary Recommendations<br>Survey Comment |                                                                                                 | Cat<br>ERC            |
|------------------------------------------------|-------------|-------|-----------|---------------|--------------|-----|-----------------------|--------------------|-------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------|
|                                                |             | No    | Ø<br>(mm) | Spread<br>(m) | Clear<br>(m) |     |                       |                    |                         |                                               |                                                                                                 |                       |
| T31                                            |             |       |           |               |              |     |                       |                    |                         |                                               | Estimated Measurements                                                                          |                       |
| Myrobalan Plum<br><i>Prunus cerasifera</i>     | 10          | 1     | 350       | N             | 4            | 3   | M                     | A: 55.4<br>R: 4.19 | Good                    | C: Good<br>S: Not visible<br>B: Not visible   | Off-site tree in western neighbouring garden. All measurements estimated.                       | <b>B.2</b><br>20+ yrs |
| T32                                            |             |       |           |               |              |     |                       |                    |                         |                                               |                                                                                                 |                       |
| Japanese White Pine<br><i>Pinus parviflora</i> | 5           | 1     | 140       | N             | 2            | 2   | SM                    | A: 8.9<br>R: 1.68  | Fair                    | C: Fair<br>S: Ivy<br>B: Good                  | Dying branches on the lower eastern and southern canopies. Growing on the edge of the driveway. | <b>C.2</b><br>10+ yrs |
| T33                                            |             |       |           |               |              |     |                       |                    |                         |                                               |                                                                                                 |                       |
| Monterey Pine<br><i>Pinus radiata</i>          | 8           | 1     | 280       | N             | 3.5          | 3   | SM                    | A: 35.5<br>R: 3.36 | Good                    | C: Good<br>S: Good<br>B: Good                 | Recent lower stem pruning, southern crown just over the public footpath. Ivy to mid stem.       | <b>B.2</b><br>20+ yrs |
| T34                                            |             |       |           |               |              |     |                       |                    |                         |                                               |                                                                                                 |                       |
| Bhutan Pine<br><i>Pinus wallichiana</i>        | 10          | 2     | 309 (Eq)  | N             | 3            | 3   | SM                    | A: 43.2<br>R: 3.7  | Good                    | C: Good<br>S: Good<br>B: Good                 | Codominant stems from 0.5 meter, ivy and garden waste around the basal area.                    | <b>C.2</b><br>10+ yrs |
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