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**Arboricultural Impact Assessment  
Arboricultural Method Statement  
Tree Constraints Plan,  
&  
Tree Protection Plan**

7 Pine Trees Drive, Ickenham, UB10 8AE

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Prepared by: **JOMAS ASSOCIATES LTD** For Krishan Sedani

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**1. INTRODUCTION****1.1. BS5839:2012**

The current British Standard for trees in relation to design, demolition, and construction is BS5837:2012. This became current in May 2012, and supersedes the old 2005 standard.

**1.2. Terms and Definitions****1.2.1. Access Facilitation Pruning**

One-off tree pruning operation, the nature and effects of which are without significant adverse impact on tree physiology or amenity value, which is directly necessary to provide access for operations on site.

**1.2.2. Arboricultural Method Statement (AMS)**

Methodology for the implementation of any aspect of development that is within the root protection area, or has the potential to result in the loss of, or damage to a tree to be retained.

**1.2.3. Arboriculturist**

Person who has through relevant education training and experience, gained expertise in the field of trees in relation to design, demolition, and construction.

**1.2.4. Competent Person**

Person who has training and experience relevant to the matter being addressed and an understanding of the requirements of the particular task which is being approached.

**1.2.5. Construction**

Site-based operations with the potential to affect existing trees.

**1.2.6. Construction Exclusion Zone (CEZ)**

Area based on the root protection area (2.7) from which access is prohibited for the duration of the project.

<b>1.2.7.</b>	Root Protection Area (RPA)
	Layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain a tree's viability, and where the protection of roots and soil structure is treated as a priority.
<b>1.2.8.</b>	Services
	Any above or below-ground structure or apparatus required for utility provision.
<b>1.2.9.</b>	Stem
	Principal above-ground structural component(s) of a tree that supports its branches.
<b>1.2.10.</b>	Structure
	Manufactured object, such as a building, carriageway, path, wall, service run, and built or excavated earthwork.
<b>1.2.11.</b>	Tree Protection Plan
	Scale drawing, informed by descriptive text where necessary, based on the finalised proposals, showing trees for retention, and illustrating the tree and landscape protection measures.
<b>1.2.12.</b>	Veteran Tree
	Tree that, by recognised criteria, shows features of biological, cultural or aesthetic value that are characteristic of, but not exclusive to, individuals surviving beyond the typical age range for the species concerned.

**1.3. The Proposal/Relevant History**

The proposal, in this instance, is to construct a new extension to the rear of the existing dwelling as shown using the purple colour on the tree protection plan (Figure 2) in this report.

**1.4. Brief and Purpose**

This report has been commissioned by Krishan Sedani to;

- Survey the trees on site in accordance with BS5837:2012.
- Detail the arboricultural implications of the proposed project.
- Present an effective tree protection strategy for the duration of the development.
- Provide the necessary arboricultural information to accompany a planning application to Hillingdon Borough Council.

**1.1.1**

**1.5. Scope**

The trees have been surveyed in accordance with the BS. Trees on and immediately adjacent to the site with a stem diameter over 75mm have been included.

A full hazard assessment of the trees (including the assessment of decay or defects and their implications), has not been undertaken as this is considered beyond the scope of this report. Any obvious hazards and defects have, however, been identified in the Tree Survey Schedule and appropriate works recommended for action.

**1.6. Documents Supplied/Used**

Document	Supplied by	Format/Reference
PDT/PL/400	USL Architects	PDF

**1.7. Site Details**

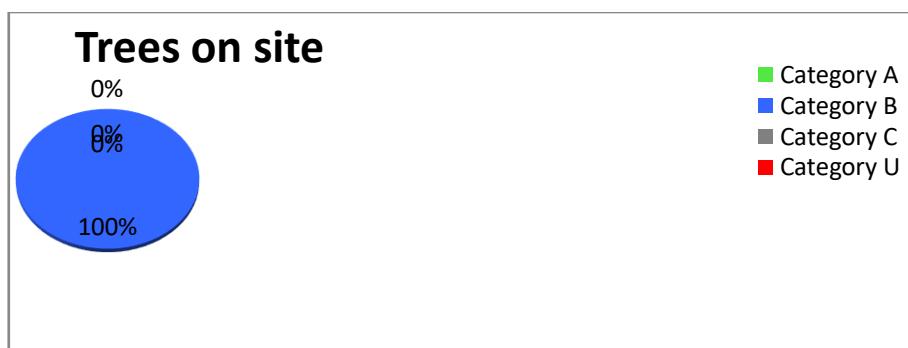
The application site, in this case, is a relatively large residential site with some significant trees situated outside of the boundary. There is a driveway to the front with a rear garden that is devoid of trees.

## 2. TREE SURVEY

### 2.1. Survey Summary

Total number of trees	11
Category A	0
Category B	11
Category C	0
Category U	0

### 2.2.



### 2.2. Survey Method

The trees were surveyed on 09/03/2021.

Locations of the trees were plotted using a Truepulse laser range finder.

All trees were inspected from ground level only using widely accepted Visual Tree Assessment techniques, and no trees were climbed during the survey.

No trees were internally investigated. Should a more detailed inspection be required then this will be pointed out in the recommendations on the survey schedule.

### 2.3. Tree Details

With regard to their desirability for retention, the trees surveyed have been graded with their trunks colour coded on the tree constraints plan, and tree protection plan using the criteria contained in BS5837:2012. A summary of this grading is as follows.

**A= Light Green.** Trees of high quality and value, in such a condition as to be able to make a substantial contribution (a minimum of 40 years is suggested in the British Standard). Usually worthy of consideration as a material constraint to any proposed development.

**B= Mid Blue.** Trees of moderate quality and value in such a condition as to make a significant contribution (a minimum period of 20 years is suggested in the British Standard). Usually worthy of consideration as a material constraint to any proposed development.

**C= Grey.** Trees of low quality and value, in adequate condition condition to remain until new planting could be established (a minimum of 10 years is recommended in the British Standard), or trees with a stem diameter below 150mm. Not usually worthy of consideration as a material constraint to any proposed development.

**U= Red.** Trees in such a condition that they cannot be realistically be retained as living specimens in the context of the current land use for longer than 10 years.

In our survey schedule, the RPA for each tree is indicated as the radius of a circle as well as in M<sup>2</sup>. This is also plotted on the tree constraints plan and tree protection plan denoted by a heavy black line which merges the individual RPAs together where there is more than one tree.

Section 4.6 of BS5837:2012 provides for the shape of the RPA to be modified from the starting point of a circle to account for site features such as hard surface treatments where root growth may be restricted, as long as the total remains the same. In this case, no RPAs were modified.

**Please Note:** The facility for offsetting an RPA by 20% for open grown trees was withdrawn on May 01<sup>st</sup> 2012.

#### 2.4.

#### Legal Protection Status of Trees.

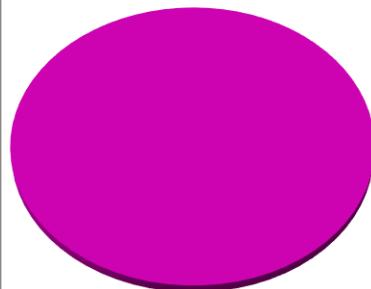
Type of Protection	Details/Reference
Conservation Area	No
Tree Preservation Order	Yes. All of the trees on our survey are covered by two TPOs.
Planning conditions requiring tree retention	No

### 3. ARBORICULTURAL IMPACT ASSESSMENT

#### 3.1. Summary of Impact Assessment

Total number of trees surveyed	11
Number of trees to be removed	0
Number of trees to be pruned	0
Number of trees with RPA incursions	0

#### Removal of Trees



- Number of trees to be retained
- No of trees to be removed

#### 3.2. Removal of trees

No trees need to be removed for the proposed extension to be constructed.

#### 3.3. Tree Works

No tree works are necessary in order to facilitate the current proposal.

#### 3.4. Incursions into RPAs

In many instances, a low degree of root disturbance can be deemed to be acceptable

Where incursions can be fully invasive, or low level invasion can sometimes be achieved by the use of specialist methods to limit the degree of disturbance. The table details the incursions and how they are to be dealt with. In our plan for tree removal I have modified the RPA of T2 so that

the retaining wall along the western side of the application site has been taken into account. This is permitted by BS5837:2012.

Incursions into RPAs of retained trees		
Type of incursion	Trees affected (% of total RPA)	Action
N/A	N/A	N/A

### 3.5. Light and Proximity Issues

There are no arboricultural light or proximity issues associated with the current proposal.

### 3.6. Mitigation

There is no requirement for any replanting in mitigation for tree losses in this instance.

### 3.7. Conclusion

Assuming full compliance with the AMS in this report, the net arboricultural impact is acceptable.

## 4. ARBORICULTURAL METHOD STATEMENT

### 4.1. Introduction

During the development process, the tree protection measures set out in this method statement must be adhered to in order to safeguard the retained trees. The principles below are specifically designed to offer a significant degree of protection to both the root systems and aerial parts of the trees for the duration of the works.

A copy of this method statement must be made available on site at all times until the cessation of any demolition, construction, and landscaping work, and the site personnel will be made familiar with the key implications of this AMS.

It should be remembered that powers were granted to Local Planning Authorities in 2005, which allow them to serve Temporary Stop Notices if agreed protection measures are strayed away from before work is completed. This can be extremely costly and very time consuming.

### 4.2. Pre-commencement Meeting

If the Local Planning Authority deem it necessary, a pre-commencement meeting will be held, attended by the project Arboricultural Consultant, the Site Manager, and the LPA Tree Officer. During this meeting potential problems and protection sequencing can be discussed and it is expected that all aspects of the tree protection measures set out in this AMS will be understood and agreed. Following this meeting, all parties involved will receive an email from the Arboricultural Consultant containing a record of what was discussed and agreed.

### 4.3. Sequencing and Supervision

Sequencing of events and effective arboricultural supervision are important elements of the tree protection process.

There is no necessity for any direct arboricultural supervision in this instance.

#### **Key Stages:**

- AMS issued to Site Manager/Building Company
- AMS to be read by all site personnel to ensure a full understanding of implications. Any raised issues are to be addressed to the project Arboricultural Consultant
- Recommended and agreed tree works to be carried out
- Tree protective fencing and ground protection installed
- Existing buildings to be demolished where appropriate
- Construction work carried out
- Tree protective fencing and ground protection removed
- Landscaping (if any) carried out

## Summary of Arboricultural Monitoring and Supervision

Activity	Level of monitoring/supervision required
Erection of tree protective fencing	Signing off of the approved tree protection measures by the project arboricultural consultant prior to any development work commencing

It is also imperative that telephone contact between the site manager and the Arboricultural Consultant is maintained with regard to any tree protection measure issues.

### 4.4. Site Precautions

The following points will be observed at all times:

- No fires will be lit within 15m of any retained tree on or around the site
- No access will be permitted inside the tree protection fences
- No materials, equipment, or waste will be stored inside the tree protection fencing at all
- Notice boards, telephone cables, or other services will not, under any circumstances, be attached to retained trees
- Material which contaminate soil, such as concrete, diesel oil, vehicle washings and even builders sand, will not be allowed to enter the RPA of any retained tree

### 4.5. Carrying out tree works

All tree works, where required, will be carried out in accordance with BS3998:2010 (Recommendations for Tree Works), and to the current arboricultural best practice. Tree works will be carried out by a suitably qualified and insured contractor. The contractor will be solely responsible for carrying out their own site risk assessment prior to the commencement of work.

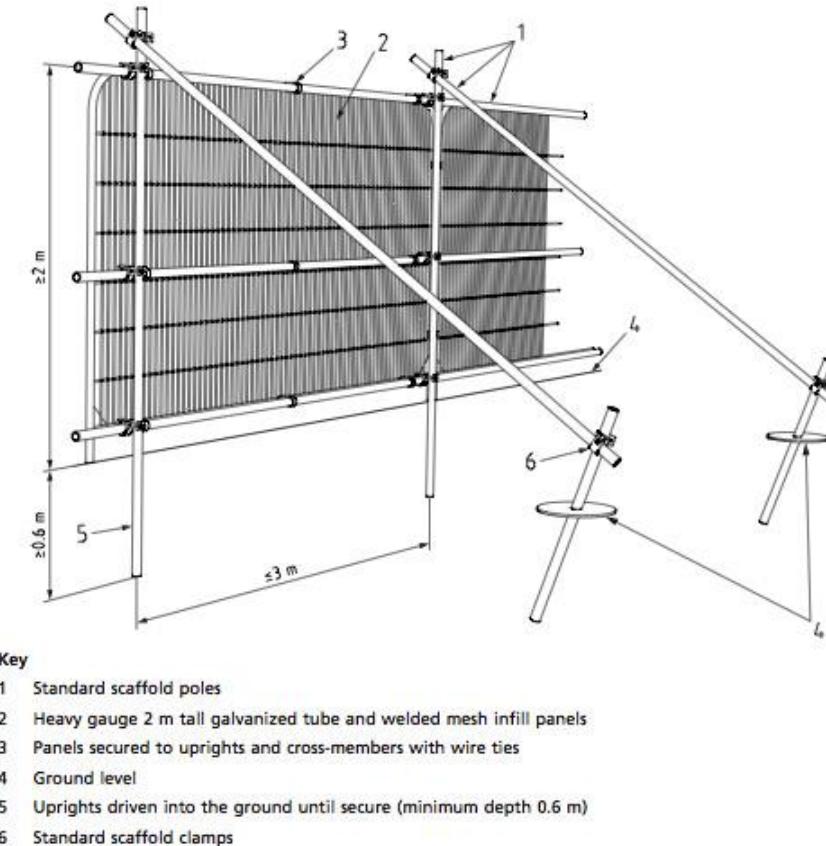
If at any time during the development a need for additional tree works is highlighted to facilitate the proposed works or access for machinery/plant, the Arboricultural Consultant will be contacted to advise on appropriate works and liaise with the LPA as necessary.

In this instance, there is no requirement for any tree work to be carried out for the proposed extension to be constructed.

### 4.6. Protective Fencing and Ground Protection

The required tree protective fencing should be installed to fence off the construction exclusion zone(s), or CEZ, shown on the tree protection plan (Figure 2). This must only be altered or moved as agreed in writing by the Local Planning Authority following advice from a competent Arboricultural Consultant.

The Tree Protective fencing will be 2.4m Heras fencing as specified in the BS. The fencing will be supported by a scaffold framework with supporting struts firmed into the ground on the side of the trees. The purpose of the supports is to prevent the fencing being moved during the development. Clear signs will be attached to the fencing (e.g. Tree Protective Fencing – Keep Out).



In the case of the current proposal there is no requirement for any ground protection.

#### 4.7. Site Access

Site access will only be available via the front driveway on Pine Trees Drive. There will be no access to the area where the trees are for construction staff for any reason.

#### 4.8. Demolition Work

Once the approved tree protection measures are in place, demolition will be carried out in the normal way. All waste from demolition will be stored away from the RPAs of all retained trees until it can be removed for disposal.

#### 4.9. Underground Services

New underground services will be routed into the footprint of the teaching block avoiding the RPAs of all retained trees.

Run off water will be routed into soak aways, the position of which will be agreed with the LPA before work commences.

#### 4.10. Foundations and Construction

Because the proposed extension is outside of the RPAs of all of the trees on our survey, no specially engineered foundation solutions will be necessary.

#### 4.11. Fencing and Landscaping

During the landscaping phase of the development (if any landscaping takes place), the following precautions will be observed:

- No compaction of soil within the RPAs (or where new tree planting is to be carried out).
- No changes in ground levels.
- Unwanted vegetation to be removed manually or using contact herbicides that will not damage existing tree roots.
- No underground irrigation or drainage pipes to be installed
- If soil has been compacted in areas where planting is proposed, measures to improve soil structure (e.g. decompaction) may be necessary to facilitate successful plant establishment.

If any fence posts are installed within the RPAs of retained trees, excavation will be carried under direct arboricultural supervision using hand tools. Posts will be re-positioned if roots in excess of 25mm in diameter are encountered. Post holes will be lined with heavy gauge polythene where concrete is used to safeguard the rooting environment of the trees from the potentially toxic effects of leaching concrete.

#### 4.12. Amendments

Issues may arise on development sites that require amendments to the previously agreed tree protection details. Any amendments to this AMS will be approved in writing by the LPA prior to being implemented. Copies of paperwork relating to any amendments will be communicated by the Arboricultural Consultant to the Client and LPA.

**This concludes the advice given in this report**

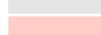
**Compiled and presented by**

**Jon Harper cert.Arb (RFS)**

# **TREE SCHEDULE**

### Tree Survey Schedule

**Date:** March 09th 2021  
**Site:** 7 Pine Trees Drive  
**Surveyor:** Jon Harper cert.Arb (RFS)

 = Category A trees  
 = Category B trees  
 = Category C trees  
 = Category U trees

Type (Tag)	Name	Age	Category	Diameter (Stems)	Height (L/Hgt)	North	East	South	West	Condition	Life Exp	Comments	Recommendations	RPR	RPA
T1	Fraxinus excelsior (Ash)	M	B2	600(1)	15(5)	7	8	6	5	Good	20	None at present.	None at present.	7.2	162.88
T2	Cedrus libani (Cedar of Lebanon)	M	B1	750(1)	16(4)	9	8	8	5	Good	20	None at present.	None at present.	9	254.5
T3	Cedrus libani (Cedar of Lebanon)	M	B1	450(1)	16(4)	5	4	5	3	Good	20	Crown distorted due to group pressure.	None at present.	5.4	91.62
T4	Picea abies (Norway Spruce)	M	B1	450(1)	15(5)	4	4	4	4	Good	20	None at present.	None at present.	5.4	91.62
T5	Acer pseudoplatanus (Sycamore)	M	B3	566(2)	9(4)	4	6	8	4	Good	20	Stem divides at ground level.	None at present.	6.79	144.86
T6	Fagus sylvatica (Beech)	M	B1	380(1)	13(3)	4	4	4	4	Good	20	None at present.	None at present.	4.56	65.33
T7	Pinus sylvestris (Scots Pine)	M	B1	280(1)	12(8)	2	3	3	3	Good	20	None at present.	None at present.	3.36	35.47
T8	Pinus sylvestris (Scots Pine)	M	B1	300(1)	14(7)	3	3	2	3	Good	20	None at present.	None at present.	3.6	40.72
T9	Pinus sylvestris (Scots Pine)	M	B1	320(1)	14(7)	3	3	2	3	Good	20	None at present.	None at present.	3.84	46.33
T10	Pinus sylvestris (Scots Pine)	M	B1	400(1)	14(7)	3	3	3.5	3	Good	20	None at present.	None at present.	4.8	72.39
T11	Pinus sylvestris (Scots Pine)	M	B1	550(1)	16(7)	3.5	4	6	4	Good	20	None at present.	None at present.	6.6	136.87

# **TREE CONSTRAINTS PLAN**

## **(Figure 1)**

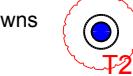
Category A trees  Category B trees 

Category C trees  Category U trees 

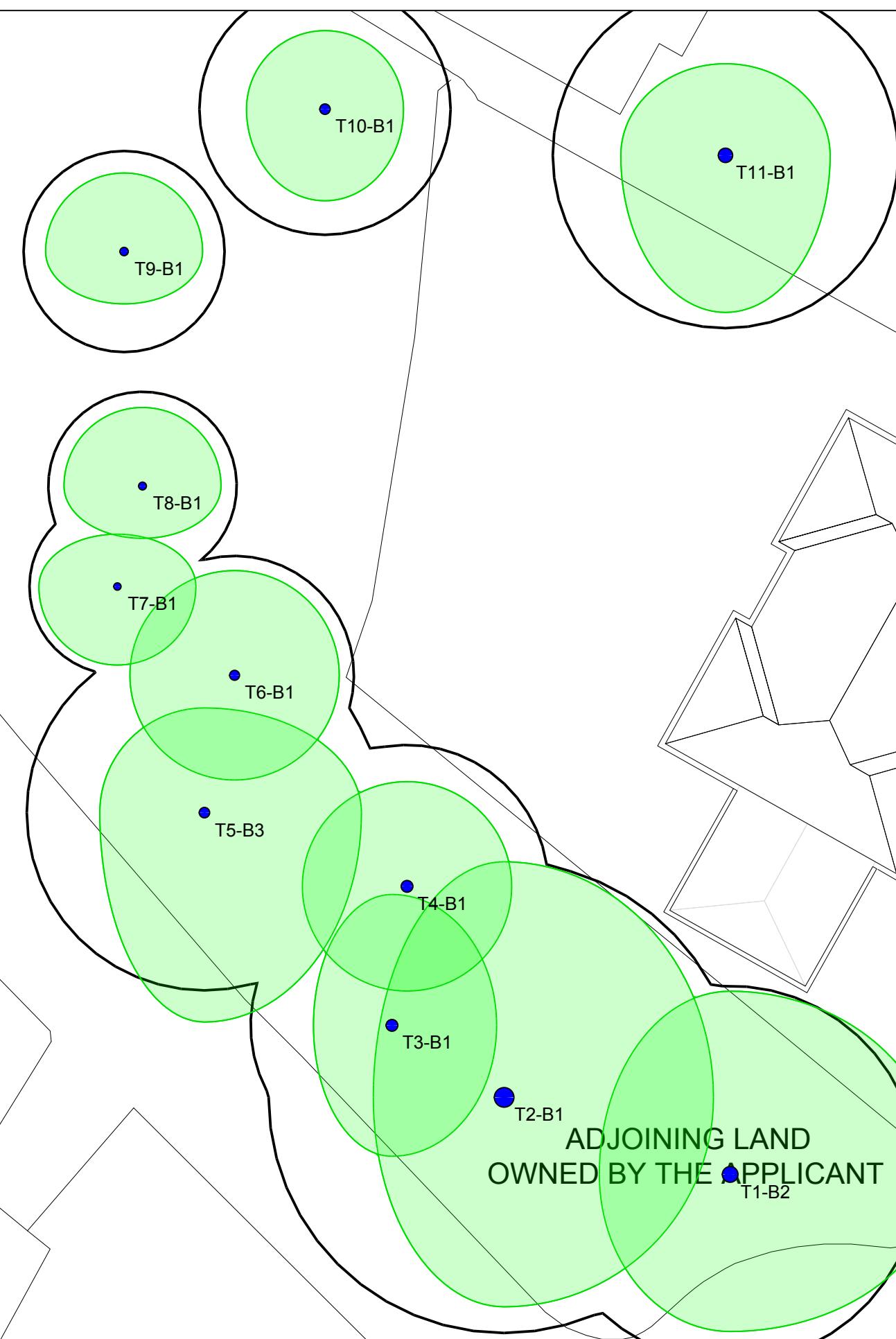
Notes & Legend:

RPAs 

Trees to be removed (red crowns and numbers)



No Dig Permeable Hard Surface Treatment



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Client:	Date:
Krishan Sedani	March 09th 2021
Ref:	Figure 1
Site:	Scale @ A3: 1:200
7 Pine Trees Drive Ickenham UB10 8AE	Title: Tree Constraints Plan

# **TREE PROTECTION PLAN**

## **(Figure 2)**

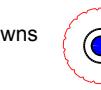
Category A trees  Category B trees 

Category C trees  Category U trees 

**Notes & Legend:**

RPAs 

Trees to be removed (red crowns and numbers)



BS5837 Specification  
Ground Protection



No Dig Permeable Hard  
Surface Treatment



Tree Protective Fencing



Proposed development



ADJOINING LAND  
OWNED BY THE APPLICANT

T1-B2

**Jomas Associates Ltd.**

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Client:	Krishan Sedani	Date:	March 09th 2021
Ref:	Fugure 2	Scale @ A3:	1:200
Site:	7 Pine Trees Drive Ickenham UB10 8AE	Title:	Tree Protection Plan

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