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Arboricultural Survey
Impact Assessment & Method Statement
Report (BS5837:2012)

Site

35 Heath Hurst Road
Hampstead
London
NW3 2RU

Client

Robert Rhodes Architecture + Interiors

Date of Report:

December 2022

Report Reference:

AIA/MF/0190/22

Report Prepared by:

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1.0 Instructions

1.1 This report has been commissioned by Robert Rhodes Architecture + Interiors to survey, assess and provide an Arboricultural Impact Assessment and Method Statement for the trees sited within close proximity of proposed development works at 35 Heath Hurst Road Hampstead, London, NW3 2RU.

2.0 Introduction

2.1 A site visit was conducted on 30th November 2022 to survey and assess the trees. The weather at the time of inspection was bright and mild with trees in early winter season.

2.2 The tree survey, report and recommendations have been compiled for the 6 no. trees (T1-T6) surveyed within the site and neighbouring sites where relevant.

2.3 The details of the subject trees are set out in the tree survey table in *Appendix A*. The trees were surveyed on the date and time shown above and the tree survey assessment information for the tree describing size, condition and surroundings are found within this appendix.

2.4 The trees located within the site are shown in tree survey drawings T001-T003 Appendix B, and these correspond to the tree survey schedule - Appendix A. Photographs of the trees can also be found in Appendix C.

2.5 This report and the opinions within it have been produced by Marcus Foster, a qualified arboriculturist and Professional Member of the Arboricultural Association with over 20 years experience and holding a National Diploma in Arboriculture, the Arboricultural Association's Technicians Certificate, Professional Tree Inspection Certificate (LANTRA) as well as a degree in History and Society. Work experience within the industry includes work as a Contracts Manager for an Arboricultural Association Approved Company, a Local Authority Tree Preservation Officer and an independent Arboricultural Consultant. As a consultant many of projects undertaken are in the inner London Boroughs of Islington, Hackney, Westminster, Camden, Southwark and RBKC, making Marcus Foster familiar with the most recent requirements of development and constraints on urban trees.

3.0 Survey Details and Scope

3.1 The site survey included the 6 no. trees (T1-T6) as shown in the survey, *Appendix A*, and also highlighted on the site plans, *Appendix B*.

3.2 The trees and hedges were surveyed from ground level from within their site location. The diameter of the trunks have been measured using a DBH tape at 1.5m height. The height of the trees have been estimated.

3.3 The following information was recorded for each tree and is shown in the Tree Schedule included in *Appendix A*:

- Number: an identity number which cross-references locations shown on the plan in Appendix A with the schedule in Appendix B.
- Species: listed by common names
- Tree Height: height in metres (m)
- Tree Spread: spread in metres (m)
- Stem diameter: measured in millimetres (mm) and taken at 1.5m above ground level
- Age Class: Y (young); EM (early-mature); M (mature); OM (over-mature)
- Vigour: G (good); F (fair); P (poor); D (dead)
- Structural Condition: G (good); F (fair); P (poor); D (dead)
- General Condition Specific comments relating to each tree
- Estimated Remaining Contribution (years)
- BS5837 Category Grading
- Protection Distance m2 Area (where applicable – BS5827: 2012)
- Protection Distance Radius (where applicable – BS5827: 2012)

3.4 Information recorded in the tree survey, *Appendix A* is expanded in the report findings and preliminary recommendations have been made in *Section 5*.

3.5 Findings as shown within *Appendix A* and assessed within *Section 5* are also highlighted within *Appendix B* which incorporates the Tree Constraints Plan (TCP) - drawing T002 addressing areas where arboricultural solutions are required. The Tree Protection Plan (TPP) - drawing T003 provides outline tree protection measures.

4.0 Survey Limitations

4.1 No soil excavations have been carried out.

4.2 This report only considers the trees and conditions at the time of inspection. As the inspection was only visual no guarantee can be given concerning the condition of the wood at present in any of the trees inspected and furthermore that no future problems or deficiencies may arise.

4.3 The survey has been undertaken as a survey of the trees without prior influence of the development and implicating factors.

4.4 No invasive tools were used during this site survey.

4.5 It should be noted that vegetation including shrubs within this / the neighbouring sites have not been included in the survey as none were within close or relevant proximity .

4.6 The survey has been undertaken from within the site only.

4.7 No additional documentation unrelated to the property or development has been referred to for the trees or the property for the compilation of this report.

5.0 Tree Survey Summary

5.1 The trees have been surveyed in accordance with BS5837: 2012 'Recommendations for trees in relation to construction' (BS5837: 2012) and have been rated as follows:

Category 'A' trees

Trees of high quality with an estimated remaining life expectancy of at least 40 years. Trees have been categorised as 'A' trees for one of the following reasons:
- Mainly arboricultural qualities
- Mainly landscape qualities
- Mainly cultural values including conservation

Within the Site Plan (Appendix B) those trees rated as 'A' category trees have a **green** outline as denoted within the site plan key / survey.

N/A

Category 'B' trees
Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. Trees have been categorised as 'B' trees for one of the following reasons
- Mainly arboricultural qualities
- Mainly landscape qualities
- Mainly cultural values including conservation

Within the Site Plan (Appendix B) those trees rated as 'B' category trees have a **blue** outline as denoted within the site plan key.

T4

Category 'C' trees
Trees of low quality with an estimated remaining life expectancy of at least 10 years or young trees with a stem diameter below 150mm. Trees have been categorised as 'C' trees for one of the following reasons

- Arboricultural qualities - unremarkable trees of very limited merit
- Mainly landscape qualities
- Trees with no material conservation or cultural value

Within the Site Plan (Appendix B) those trees rated as 'C' category trees have a **grey** outline as denoted within the site plan key.

T1, T2, T3, T5, T6

Category 'U' trees
Trees 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.Within the Site Plan (Appendix B) those trees rated as 'U' category trees have a **red** outline as denoted within the site plan key.

N/A

5.2 The trees have been surveyed taking into account condition, general health and form without the development process influencing the survey. In addition they have also been surveyed taking account of amenity value that is offered in relation to both the landscape and surrounding buildings and streetscape. This report outlines the impact that the proposed development will have on the overall treescape and landscape; it provides recommendations to ensure that long-term amenity value for the area is retained.

5.3 The report has been written with close reference to the British Standard Guidance, British Standard 5837: 2012 'Recommendations for trees in relation to construction' (BS5837: 2012), which addresses the juxtaposition between trees and structures. The Arboricultural Impact Assessment highlights areas where the trees will require protection which should be addressed within the Arboricultural Method Statement (AMS) and/or Tree Protection Plan (TPP) specific to the site and proposed scheme, and corroborating with all construction and landscape method statements as relevant.

5.4 The report specifies precautions which shall be taken when working close to retained trees. Important terms include:

Root Protection Area (RPA)
The area defined as requiring protection from development from retained trees within BS5837 (2012). Using a calculation provided within BS5837 a radius distance is provided based on a measurement of the main stem taken at 1.5m height.

Construction Exclusion Zone (CEZ)
This is the RPA where no construction activity should occur and damage is prevented by either installing fencing to restrict access or installing ground protection that allows limited access above the ground, while protecting the rooting environment below.

Due to site constraints and the encroaching nature of development for an area within the RPA outside the CEZ where works are proposed, works must be carried out with care to minimise any impact on the tree rooting environment.

Tree Protection Plan (TPP)
The document which defines the extent and methodology of tree protection for the entire development process. This should be referred to AT ALL TIMES by the principal contractor and shall ensure safe protection of all retained trees on site.

Precautionary Area
An area where works must be undertaken with direct consultation with methodology as specified within the AMS report and / or scheme of Arboricultural supervision

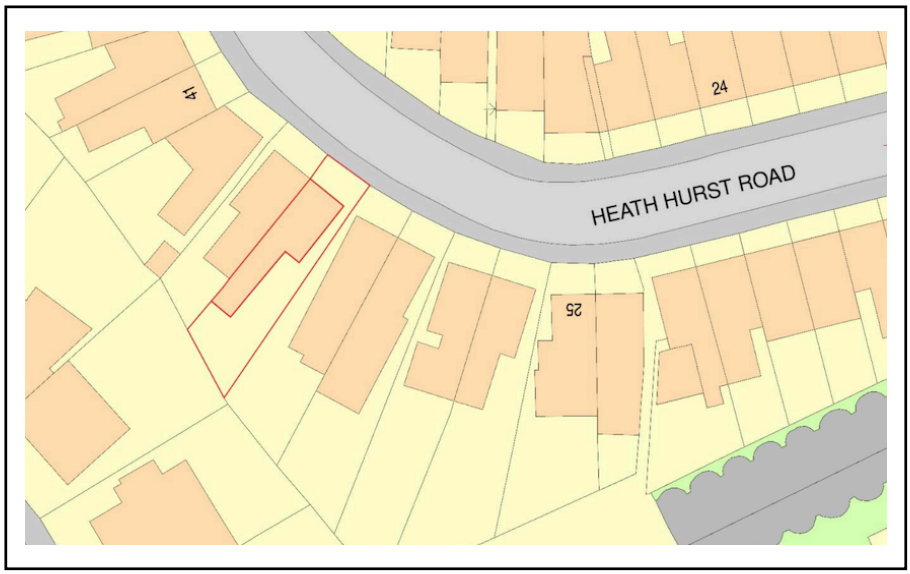
6.0 Arboricultural Impact Assessment

Site Overview

6.1 The 6 no. trees (T1-T6) are located within London Borough of Camden. The following statutory checks have been made for the site:

CONSERVATION AREA STATUS
Hampstead Conservation Area, London Borough of Camden
TREE PRESERVATION ORDER (TPO) STATUS
TPO protection check has not been undertaken. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order , and those trees without. This is principally because a detailed planning consent overrides any TPO protection

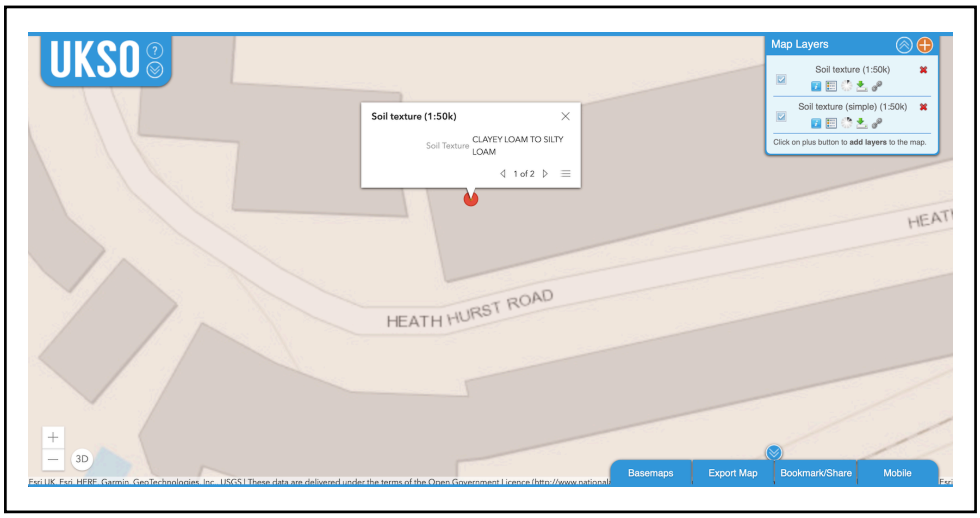
6.2 Reference to OS maps confirms location of the property which is a semi-detached property with front and rear gardens laid to hard and soft landscapes:



Extract from *OSMaps*

6.3 The underlying soil to this area is classified as 'clayey loam to silty loam' within the UK Soil Observatory (www.ukso.org) - a medium to heavy soil mix. The presence of a clay element within the soil is significant in terms of both tree protection and foundation design. Clay soils can experience substantial volume changes when vegetation extracts moisture from the ground and they are also prone to compaction when wet; the soil is deemed as being of medium to heavy texture with more susceptibility to compaction. Any tree foundations should also be designed in accordance with the recommendations contained within NHBC Chapter 4.2 (National House Building Council, 2010) and should account for the possibility of both subsidence and heave.

6.4 Reference to www.ukso.org maps show as below:



Extract from Soil Observatory - 30/11/22 - www.ukso.org

Taking account of the ,moderate to heavy soil texture where tree loss is assessed within the development proposal this should be mitigated with replacement tree planting and structural engineering solutions suitable for this soil type.

6.5 For the purposes of this report, reference has been made to the following plans for the proposed development:

Robert Rhodes Architecture + Interiors
237 35HHR 001 EXISTING GROUND FLOOR PLAN A1
237 35HHR 007 PROPOSED GROUND FLOOR PLAN A1
237 35HHR S01 SITE LOCATION PLAN A3

The proposed development includes:

- General refurbishment works
- Rear extension
- Final landscape works

6.6 For the purposes of this report and the proposed development, the trees were surveyed from within the site and the public highway. Those trees within and neighbouring the site were deemed with trees surveyed as follows:

35 Heath Hurst Road: Trees T1 - T3
37 Heath Hurst Road: Tree T5
19 Hampstead Hill Gardens: T4
Public highway - Heath Hurst Road: T6

6.7 The summary of arboricultural impact which shall be assessed is as follows:

- Loss of 3 no. 'C' Category trees
- Level changes within RPA of off site trees to south and west
- Potential compaction and damage of the retained trees in relation to the development and landscape process
- Potential damage to canopies of the retained trees surrounding the site during development and landscape process
- The use of and storage of materials and chemicals on site within close proximity of the trees

6.8 The trees and the impact from the proposed development are evaluated within this section to determine overall arboricultural impact from the proposed development. Where trees are retained the Root Protection Area (RPA) for each tree is evaluated in relation to proposed development works. The following is assessed within this section:

(i) Where tree protection measures are deemed appropriate these are highlighted

(ii) Mitigation for tree loss where trees are proposed for removal

Arboricultural Impact Assessment

6.9 The trees surveyed within the site and off site where included within the survey are of the following species:

Apple (*Malus spp*)
Pear (*Pyrus domestica*)
Tibetan Cherry (*Prunus serulla* 'Tibetica')
Cypress *'Goldcrest'* (*Cupressus macrocarpa 'Goldcrest'*)
Hawthorn (*Crataegus monogyna*)
Crab apple 'Tschonskii' *(Malus spp* 'Tschonskii')

6.10 The main attributes of the trees are as follows:

(i) Trees at rear surrounding house (T1-T3) of ornamental value only and limited amenity value by virtue of small and cyclically reduced size

(ii) Off site tree (T4) offering improved amenity value at distance from proposed development

(ii) No trees are located at the front of property but there is a newly planted tree (T6) within the highway which are relevant to development proposals for transport and deliveries

Tree Retention:
19 Hampstead Hill Gardens: Tree T4

6.11 The off site Hawthorn (T4) has the potential to be affected by proposed development works by virtue of:

- Overhang of crown
- RPA incursion to rear garden and area subject to level changes of 1.15m

6.12 The incursion of RPA can be justified based on the following:

- Limited incursion with full protection of southern root plate by virtue of off site location
- Reduced form of tree
- Incorporation of tree protection measures including Precautionary Area as outlined within AMS & TPP

6.13 To ensure protection the following tree protection measures shall be applicable:

(i) PRECAUTIONARY AREA
For implementation of development works for rear garden level changes the Precautionary Area shall be subject to works undertaken in accordance with the AMS - Section 9, for all excavations on this line

6.14 The existing boundary treatment (retained) negates the requirement for tree protection fencing where fence is remained .

37 Heath Hurst Road: Tree T5

6.15 The neighbouring dwarf Cypress tree shall be affected by proposed development works to a limited extent by virtue of:

- off site location and no overhanging crown
- RPA with minor incursion but very limited taking account of dwarf form of tree and small size.

As with T4 a Precautionary Area shall be applicable to ensure no tree root severance.

Public highway - Heath Hurst Road: T6

6.16 The public highway tree is rated as a 'C' category tree due to young age having been planted within the past 3-6 months

6.17 The following tree protection measure shall be applicable to ensure protection from the development process including deliveries:

(i) TREE PROTECTION FENCING
Tree protection fencing to create CEZ for construction works shall be implemented as shown within the AMS & TP

Tree Removal

6.18 The proposed development requires loss of 3 no. 'C' Category trees all of ornamental value only. The loss is justified based on the following:

- Poor location of trees T1-T3, particularly noting T1 & T2 being sited within limited raised retainer
- Developing canopy of T1within rear garden location and growing directly against elevation of property
- Poor form / limited lifespan of trees within current location

- Limited amenity value of those trees proposed for removal, notably for T1-T2 due to location
- Replacement scheme applicable for loss of tree T3 which does offer limited amenity value

6.19 To mitigate and enhance the green infrastructure of the site a replacement tree proposal for the 1 no. tree (T3) which offers some value for the site being sited within the main rear garden area.

6.20 The replacement planting proposal / plan shall incorporate a species mix in accordance with the following:

- Climate change resilience
- Pest and disease resilience
- Future occupancy consideration for rear gardens
- Implementation scheme to BS8545 (Trees: From Nursery to Independence in the Landscape, 2014)
- Aftercare and establishment programme

6.21 To provide a suitable replacement planting scheme the following species palette shall be relevant for a recommended 1 no: replacement planting undertaken at completion of works:

<u>Small Size Canopy Species:</u>
Prunus serulla 'Tibetica'
Amelanchier arborea 'Robin Hill'
Crataegus prunifolia 'Spendens'
Cercis canadensis 'Forest Pansy'
Malus spp 'Tschonskii'

Summary of Arboricultural Impact

6.22 The proposed development requires tree protection measures and mitigation for the implementation of development as follows:

Tree Protection applicable to the following trees:
T4 & T6

Mitigation applicable for the removal of the following trees:
T1, T2, T3

The limited impact to amenity value derived from the loss of T1-T3 and tree protection measures shall ensure that the development does not detrimentally impact the amenity value and canopy cover of the site

6.23 In summary the arboricultural impact as outlined within drawing T003 - Tree Protection Plan (TPP): require the following tree protection measures for those trees retained

(i) TREE PROTECTION FENCING
(ii) GROUND PROTECTION
(iii) FACILITATIVE TREE WORKS

7.0 Aboricultural Method Statement

7.1 The following tree protection measures require close adherence AT ALL TIMES as outlined within this report. The measures are outlined within Tree Protection Plan (TPP) - drawing T003.

7.2 **Tree Works**

7.2.1 Tree Works included within Schedule of Works - Section 8 - shall be undertaken at pre-commencement stage.

7.3 **Tree Protection Fencing**

7.3.1 Protection of the trees highlighted for retention must be implemented as explained below and as specified within the TPP - drawing T003:

(i) Basal Shuttering - seeTPP & Appendix E for tree T6

7.3.2 These measures must remain for the entire construction process in order to provide a comprehensive barrier from the trees

- The area surrounding the trees must be surrounded by protective fencing as outlined in TPP - T003
- The protective fencing used must be suitable for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees.
- This barrier must remain rigid and complete during the entire construction process. Protection is not required surrounding entire trees where boundary treatments intervene in RPA's as the remainder of the root plate will remain unaffected by virtue of being located within the neighbouring properties
- Once the Exclusion Zone / fencing has been protected by fencing all weather notices as included in *Appendix D* must be put onto the barrier warning that the area is a construction exclusion zone.
- No heavy plant shall come into contact with any part of the canopies of the trees.
- No building materials or chemicals shall be stored within the tree protection zone as indicated on the TP

7.4 **Ground Protection**

7.4.1 No ground protection shall be required.

7.5 **Precautionary Area Works**

7.5.1 For the precautionary area / RPA of retained trees in relation to proposed line of excavations for T4 thethe ground works sequence must demonstrate the following methodology:

GROUND WORKS SEQUENCE

PRECAUTIONARY WORKS AREA IDENTIFIED
A Precautionary area is an area where tree protection for excavations and foundation works require implementation within RPA of retained trees. The identification of this area ensures any root severance is undertaken with arboricultural supervision and without poor severance of exposed tree roots

↓

All works within precautionary area highlighted within 'Toolbox Talk'

↓

Initial hand dug locations of line of proposed line of excavations against party wall to be undertaken using hand tools

↓

The hand dug trench undertaken to provide clean face. This shall enable exposure of larger roots in excess of 25mm diameter. These roots should then be severed cleanly using a sharp pruning saw to enable regeneration under the supervision of an arboricultural consultant

↓

The line of excavations and subsequent root severance must thereafter be undertaken by the approved consulting arboriculturist and methodology / completed works detailed within a supervision report.

↓

Any roots left exposed against face of excavations including massing of fibrous roots shall be wrapped / covered in hessian and kept damp at all times until soil / party wall is re-instated with the following further measures:

(iii) During dormant period (November - March) no further works are required

(iv) During growing season (March - October) in addition to hessian being kept moist the face of trench should be drenched with a soluble seaweed fertiliser to manufacturers application rates on a monthly basis

↓

(v) Upon completion of works infill shall be with a fresh loam based topsoil with mycorrhizal fungi addition to promote root growth

PRECAUTIONARY AREA GUIDANCE FOR EXCAVATIONS WITHIN RPA OF T4

7.5.2 For undertaking excavations within the 'Precautionary Area' guidance below must be adhered to as below

Excavation and dealing with roots

BS5837 (2012) makes provision for undertaking excavations in RPAs, explaining that all excavation must be carried out carefully using spades, forks and trowels, It is important not to damage the bark and wood of any roots. For this area, these tools should be used with no machinery used for the preliminary works.

All excavations to be hand dug excavations only to ensure no severance of major roots

Tree Root Severance Guidance

The contractors must be aware of tree protection specifications n relation to tree roots which must be applied as follows:

- The severance of any tree roots encountered larger than 25mm in diameter MUST NOT occur without prior consultation with the Local Authority Tree Officer or appointed Arboricultural Consultant.

- Any exposed ground within the RPA must be covered in hessian and kept damp where left exposed during works

- If at any point it is deemed not possible to continue with excavations without having to damage very significant tree roots, the Local Authority Tree Officer and / or the appointed Arboricultural Consultant must be contacted.

7.5.3 The works shall be undertaken using hand tools only such as this included below or similar for 'Precautionary Area' as highlighted within the TPP:

7.6 **Storage of Construction site related materials, plant and spoil /**

7.6.1 A designated storage area e must be confirmed at pre-commencement stage which is located outside of the RPA of retained trees. Strict adherence to this area must be made to this area and any amendment would require written consent from the tree officer.

7.7 **Site Welfare & Site Office**

7.7.1 Site welfare and the site office must be confirmed at pre-commencement stage which is located outside of the RPA of retained trees. Strict adherence to this area must be made to this area and any amendment would require written consent from the tree officer.

7.8 **Fires**

7.8.1 There must UNDER NO CIRCUMSTANCES be fires within this site.

7.9 **Installation of utility services**

7.9.1 The installation and/or amendment of utility services within the RPA of retained trees is not required as the existing garden building has services connected. However where an amendment is required and utilities are required within the RPA of any retained tree the consulting arboriculturist and Local Authority must be notified prior to any ground tree protection / fencing and barrier removal and the following details adhered to:

- Trenching for the installation of underground services severs any tree roots present and can have a detrimental impact on the structural integrity of affected trees. When services are required to pass through a

Tree Protection Area / CEZ, detailed plans showing proposed routes should be drawn up in conjunction with the consulting arboriculturist to avoid long term problems for related trees.

- The preferable method for trenching is to use a 'Air Spade' or similar to remove soil with compressed air, therefore minimising damage to roots in the process. Should hand dug excavations be required within the RPA this shall only be undertaken with arboricultural supervision.

7.9.2 Further reference can be made to National Joint Utilities Group (Volume 4, Issue 2) for guidance but any approach must be approved by both the consulting arboriculturist and Local Authority tree officer.

8.0 Communication, Monitoring and Compliance

8.1 In ensuring that all Tree Protections Specifications as highlighted within this AMS are closely adhered to at all times, it is important to set out for the long term of the development, communication details for key individuals and tasks that require monitoring.

8.2 For all tree protection measures these must be considered as sacrosanct and should not be removed or altered without prior written consent from the Local Authority tree officer and/or consulting arboriculturist.

8.3 The local authority arboriculturist will have free access to the site and forward any concerns / recommendations directly to the consulting arboriculturist.

8.4 The following individuals and organisations are central to the delivery of the scheme in relation to the tree protection measures it requires:

CONSULTING ARBORICULTURIST
Name - Marcus Foster MArborA
Telephone - 07812024070
Contact - Marcus Foster
Email - mail@marcus-foster.com

LONDON BOROUGH OF CAMDEN - TREE OFFICER

Name - Arboricultural Services - London Borough of Camden
Telephone - 020 7974 5939
Contact - Nick Bell - Tree Officer
Email - nick.bell@camden.gov.uk

9.0 Tree Works Schedule

9.1 Any tree work shall be carried out to BS 3998; 2010 Recommendations for Tree Work.

9.2 Tree works to be confirmed at pre-commencement meeting

TREE WORKS SCHEDULE: 35 Heath Hurst Road, Hampstead, London, NW3 2RU				
Tree No.	Common Name	BS5837 Category	Tree Works	Reasons for works
T1	Apple	C	Fell to ground level and grind out stump	To dispene with duty of care
T2	Pear	C	Fell to ground level and grind out stump	To facilitate development
T3	Tibetan cherry	C	Fell to ground level and grind out stump	To dispene with duty of care

NOTE: Wildlife & Habitat Protection Guidelines
The tree work specifications included within this report do not provide an exemption from the requirements to comply with the Wildlife and Countryside Act 1981, the Habitats Regulations 1994 and the Countryside and Rights of Way Act 2000, or any acts offering protection to wildlife. Of particular note is the protection offered to bats, birds and their nests, whilst being built or in use. It must be noted that failure to comply with the Acts may result in a criminal prosecution.

Appendices

Appendix A

Tree Survey Schedule
(BS5837:2012)

35 Heath Hurst Road
Hampstead
London
NW3 2RU

Colour Key: BS5837: 2012 (see Section 3.6)

- Category A
- Category B
- Category C
- Category U

BS5837:2012 TREE SURVEY
SITE: 35 Heath Hurst Road Hampstead, London, NW3 2RU
DATE: 30.11.22

Tree No	Species	Height (m)	DBH (mm)	Spread (m) N/E/S/W	Age	Structural Condition	Vitality	BS5837 (2012) Rating	Remaining Contribution (years)	Comments / Structural Condition	Root Protection Area (RPA) m2	Root Protection Area (RPA) Radius (m)
T1	Apple	4.5	150	2 2 3 2	SM	F	G	C1	10 years +	Growing from 25mm height raised retainer. Lean to north west. Previously pollarded; lapsed 2 years. Growing against building. Base breaking out low retainer	10.18	1.80
T2	Pear	4	140	2 2 2 2	Y	F	G	C1	10 years +	Reduced to compact form; lapsed 2 years. Growing within raised retainer; poor location	8.87	1.68
T3	Tibetan cherry	4.5	150	2 2 3 2	SM	F	G	C1	10 years +	Ornamental form, previously reduced. Boundary location	10.18	1.80
T4	Hawthorn	6	300 (e)	3 2 2 3	EM	F	G	B1	20 years +	Off-site to south west. Reduced from 4m. Lapsed 6-8 years. Limited overhang 1m at 3-4m only to site.	40.72	3.60
T5	Monterey cypress 'Goldcrest'	3.5	100 (e)	1 2 1 1	SM	F	F	C1	10 years +	Off-site; no overhang to site.	4.52	1.20
T6	Crab apple 'Tschonskii'	3	80	1 1 1 1	Y	G	G	C1	10 years +	Newly planted tree within public highway	3.0	1.0

(e) Denotes estimate of stem diameter

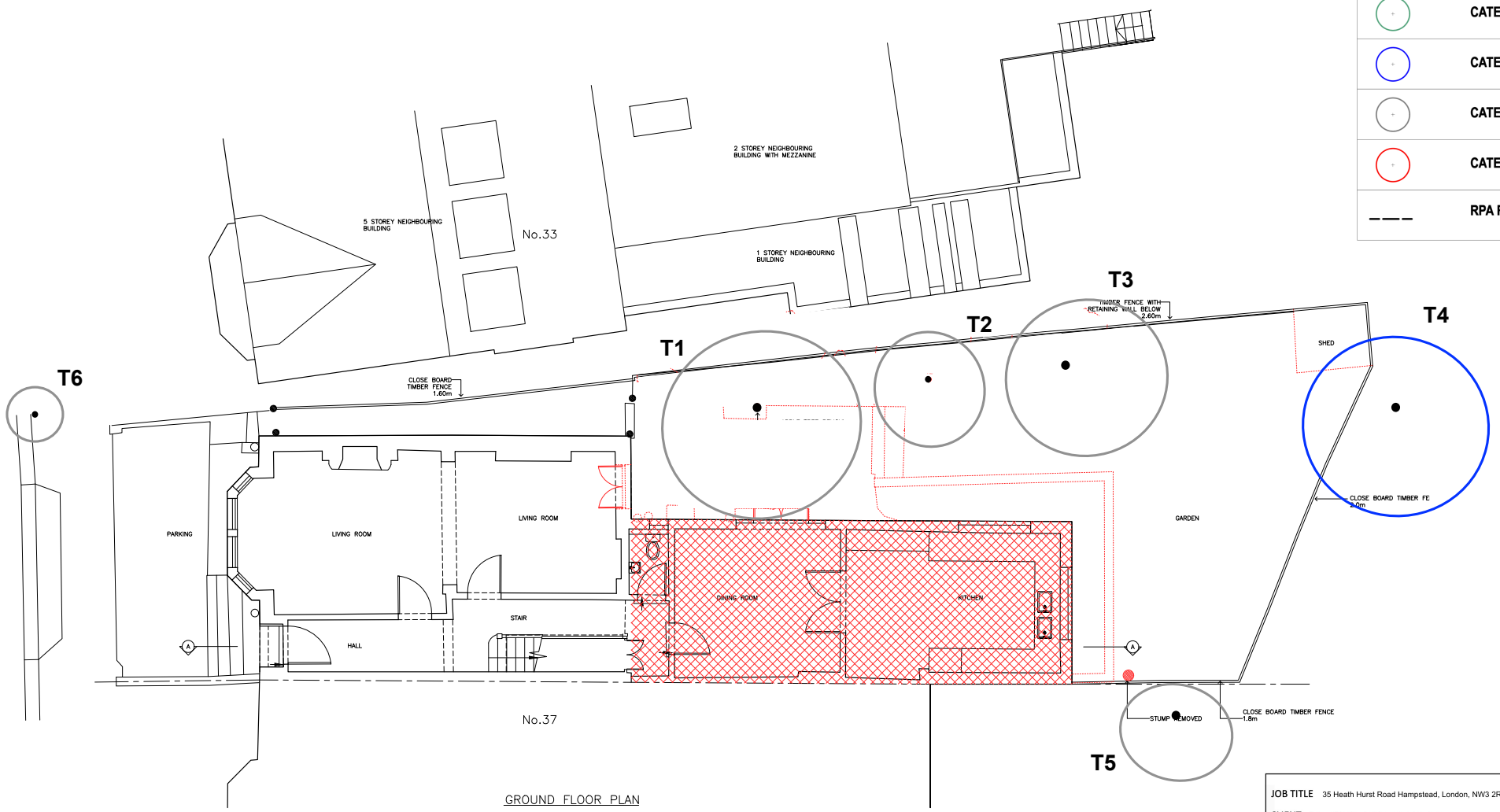
Appendix B

Existing Tree Survey (T001)
Tree Constraints Plan (T002)
Tree Protection Plan (T003)
(BS5837:2012)

35 Heath Hurst Road
Hampstead
London
NW3 2RU

Colour Key: BS5837: 2012 (see Section 3.6)

- Category A
- Category B
- Category C
- Category U



issued for construction unless clearly noted as such

BS5837 (2012) TREE SURVEY NOTES

1. In accordance with BS5837(2012) this drawing is a colour coded schedule and should not be read in black and white

2. If received electronically it is the recipients responsibility to print this drawing to correct scale. Only written dimensions should be used where not printed to scale.

3. This drawing should be read in conjunction with all other relevant drawings and specifications

4. Marcus Foster Arboricultural Design & Consultancy accepts no liability for any use of this document other than by its client and only for the purposes for which it was prepared and provided

JOB TITLE	35 Heath Hurst Road Hampstead, London, NW3 2RU
CLIENT	Robert Rhodes Architecture + Interiors
DWG TITLE	Existing Tree Survey
SCALE	1:100 @ A3 *Canopies / stems not plotted via GIS / Topographical survey data*
DATE	December 22
JOB NO	AIA/MF/0190/22
DWG NO.	T001

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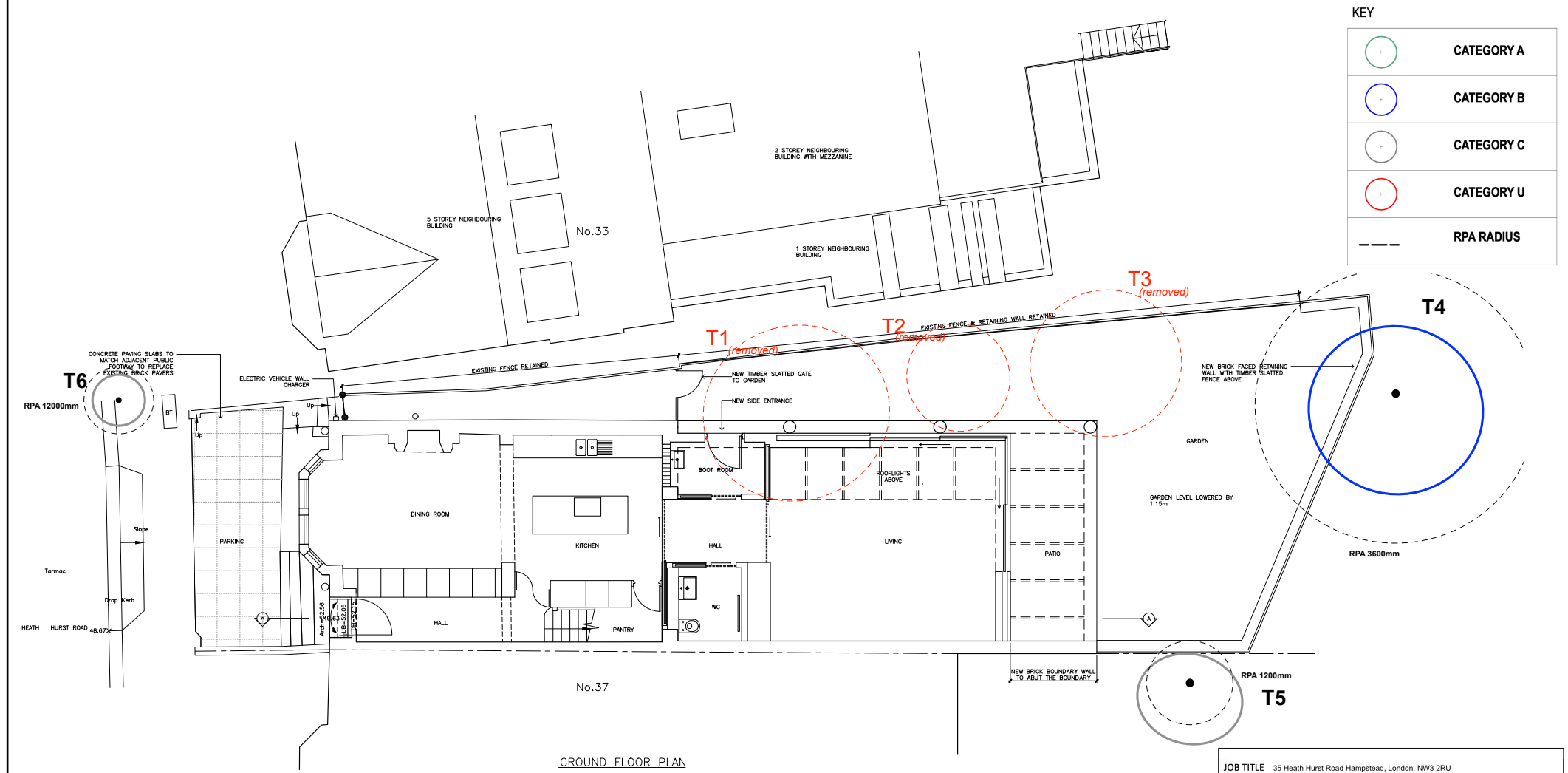
Marcus Foster



BS5837 (2012) TREE SURVEY NOTES

1. In accordance with BS5837(2012) this drawing is a colour coded schedule and should not be read in black and white

2. If received electronically it is the recipients responsibility to print this drawing to correct scale. Only written dimensions should be used where not printed to scale.

3. This drawing should be read in conjunction with all other relevant drawings and specifications

4. Marcus Foster Arboricultural Design & Consultancy accepts no liability for any use of this document other than by its client and only for the purposes for which it was prepared and provided

JOB TITLE	35 Heath Hurst Road Hampstead, London, NW3 2RU
CLIENT	Robert Rhodes Architecture + Interiors
DWG TITLE	Tree Constraints Plan
SCALE	1:100 @ A3 *Canopies / stems not plotted via GIS / Topographical survey data*
DATE	December 22
JOB NO	AIA/MF/0190/22
DWG NO.	T002

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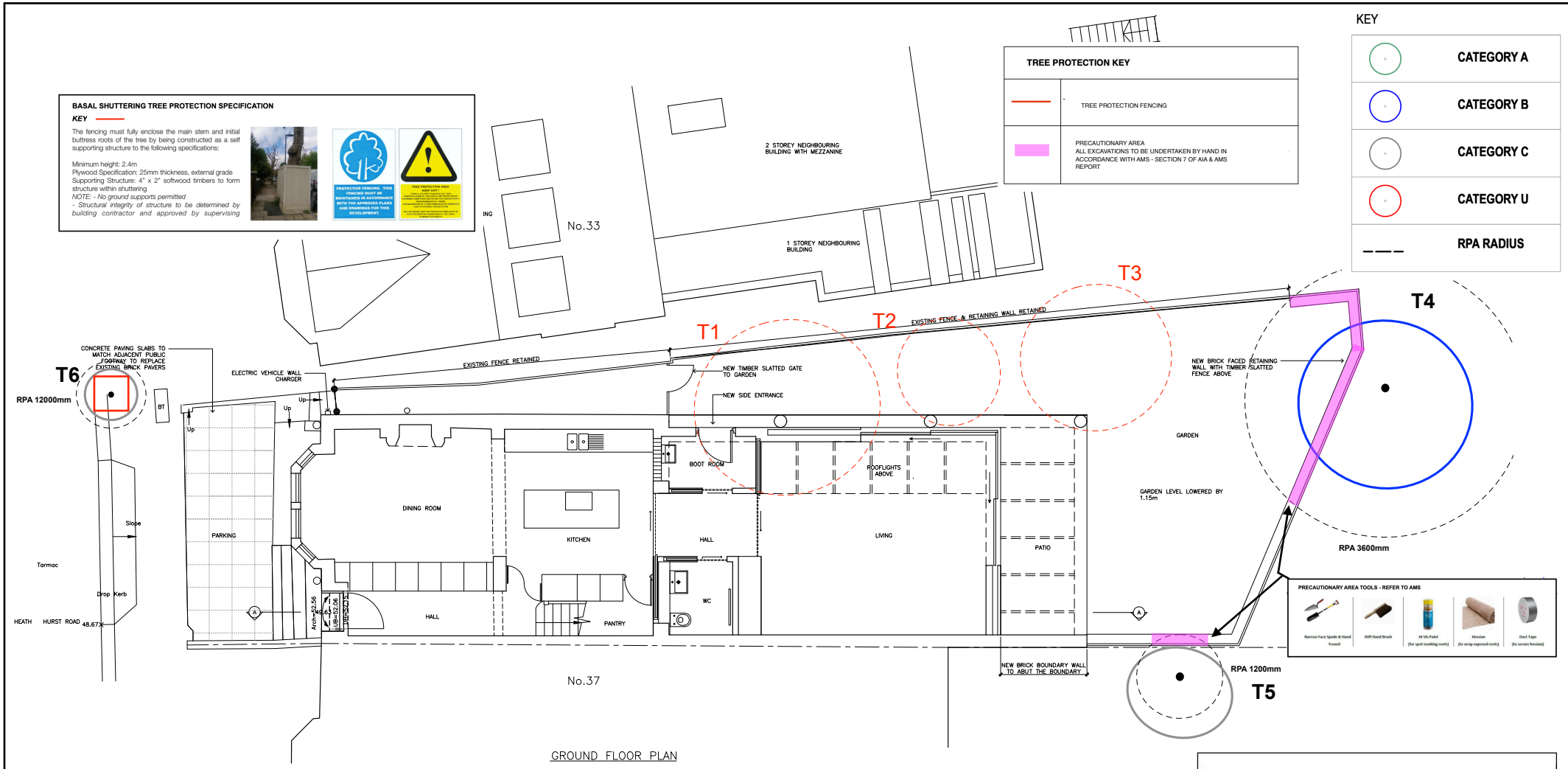

BS5837 (2012) TREE SURVEY NOTES

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JOB TITLE	35 Heath Hurst Road Hampstead, London, NW3 2RU
CLIENT	Robert Rhodes Architecture + Interiors
DWG TITLE	Tree Protection Plan
SCALE	1:100 @ A3 *Canopies / stems not plotted via GIS / Topographical survey data*
DATE	December 22
JOB NO	AIA/MF/0190/22
DWG NO.	T003

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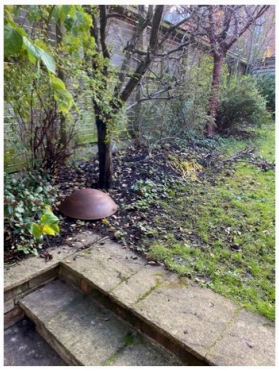
Appendix C:
Tree Survey Photographs

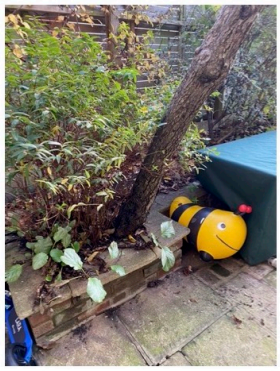
Site / Tree Survey Photographs (30/11/22) for:
35 Heath Hurst Road, Hampstead, London, NW3 2RU

Trees T1-T3 viewed to east

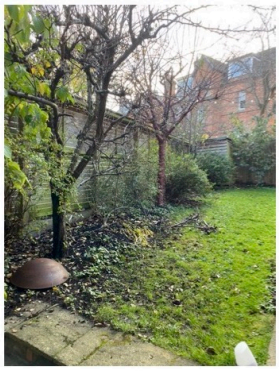
Tree T3 viewed to east



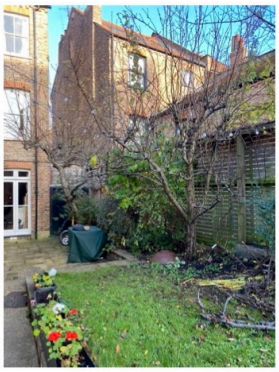
Trees T1-T2 viewed to south east



Tree T1 viewed to south east

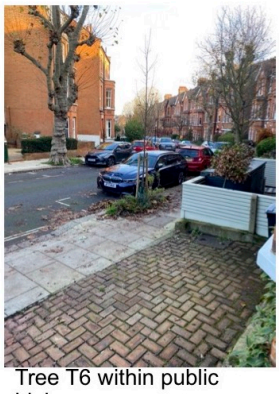


Trees T2-T3 and T4 (off site) viewed to south



Trees T1-T3 viewed to east

Tree T5 (off site to west)



Tree T6 within public highway

Appendix D:
Tree Protection Notice

Generic Tree Protection Notice
(BS5837: 2012):

Notice to be clearly shown on site where fencing constructed
AT ALL TIMES

Appendix E
Tree Protection Fencing Specifications

BASAL SHUTTERING SPECIFICATION

BASAL SHUTTERING

Specification of Basal Shuttering Tree Protection
The fencing must fully enclose the main stem and initial buttress roots of the tree by being constructed as a self supporting structure to the following specifications:

Plywood Specification: 25mm thickness, external grade
Supporting Structure: 4" x 2" softwood timbers to form structure within shuttering
NOTE: - No ground supports permitted
Structural integrity of structure to be determined by building contractor and approved by supervising arboriculturilt
Tree Protection Fencing Notices: 5 x Notices

Example of Basal Shuttering Tree Protection

Appendix F: References

1. BS5837: British Standard: Trees in relation to construction - Recommendations, British Standard (2012)

2. Principles of Tree Hazard Assessment and Management, Lonsdale, D. (Department for Transport, Local Government and the Regions, 1999)

3. The Body Language of Trees, Mattheck, C. and Breloer, H. (HMSO, 1994)

4. Trees in Britain, Philips, R. (Pan Books, 1978).

5. Diagnosis of Ill Health in Trees, Strouts, R. and Winter, (TSO, 1994)

6. National Planning Policy Framework February 2019 Ministry of Housing, Communities and Local Government

7. NJUG Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees (Issue 2), (November 2007)

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