



Arboricultural Consultancy
Holmwood Farm Grange Horsham Road North Holmwood Dorking Surrey RH5 4JR
Tel: 01306 743374 Email: info@challiceconsulting.co.uk Web: www.challiceconsulting.co.uk

Our Ref: CC/1634 AR3077

18th July 2016

Mr. Andrew Neale
13 Downshire Hill
Camden
London
NW3 1NR

Dear Mr. Neale,

Re: Tree Protection Relating to 13 Downshire Hill, Camden, London NW3 1NR

Please find enclosed an arboricultural report relating to the proposed development at the above site. I would be grateful if you could review the contents of this report to ensure it meets your requirements before it is sent to the Local Planning Authority. A copy of this report should be maintained on site at all times and be available to all site personnel.

Attendance at the pre-commencement meeting and for inspections/supervision (sections 16.0 and 27.0 of report) is chargeable at the standard hourly rate, details of which are available upon request.

I hope that this information is clear and helpful and if I can be of any further assistance, please do not hesitate to contact me.

Yours sincerely,

Mr. David Challice
Chartered Arboriculturist

Enc.

Challice Consulting Ltd.
VAT Registration No. 886 2277 82
Registered Office: Griffins Court 24-32 London Road Newbury Berkshire RG14 1JX
Registered in England and Wales No. 6080792

**Tree Survey
Arboricultural Impact Assessment
Arboricultural Method Statement**

Relating to:

**13 Downshire Hill, Camden,
London NW3 1NR**

Produced for:

Mr. Andrew Neale

Prepared by:

Challice Consulting Ltd.

Mr. David Challice

Dip. Arb. (RFS), F.Arbor.A, MICFor

Date:

18th July 2016

Our Ref:

CC/1634 AR3077

INTRODUCTION**SECTION**

Frequently Used Key Terms and Abbreviations	1.0
The Proposal	2.0
Instructions and Purpose	3.0
Scope	4.0
Documents Supplied/Used	5.0
Site Details	6.0

TREE SURVEY

Survey Method	7.0
Tree Details	8.0

ARBORICULTURAL IMPACT ASSESSMENT

Introduction to Arboricultural Impact Assessment	9.0
Tree Removal and Retention	10.0
Tree Pruning Works	11.0
Incursions into Root Protection Areas	12.0
Proximity Issues and Shading	13.0
Summary of Arboricultural Impact	14.0

ARBORICULTURAL METHOD STATEMENT

Introduction to Arboricultural Method Statement	15.0
Pre-Commencement Meeting	16.0
General Site Precautions	17.0
Tree Works	18.0
Tree Protective Fencing	19.0
Ground Protection	20.0
Site Access/Hard Surfaces	21.0
Demolition	22.0
Underground Services	23.0
Foundations	24.0
Construction/Hard Landscaping	25.0
Soft Landscaping/Boundary Fencing	26.0
Sequencing and Supervision	27.0
Amendments	28.0
List of Contacts	29.0

Challice Consulting Ltd.

Holmwood Farm Grange Horsham Road North Holmwood Dorking Surrey RH5 4JR
Tel: 01306 743374 Email: info@challiceconsulting.co.uk Web: www.challiceconsulting.co.uk

APPENDICES

Appendix 1	Tree Survey Schedule with Recommended Tree Works
Appendix 2	Tree Protection Plan in Colour at A1 and Scale 1:100 with Tree Protective Fencing Specification
Appendix 3	Example of Site Inspection Record
Appendix 4	Induction Form for Personnel

INTRODUCTION

1.0 Frequently Used Key Terms and Abbreviations

Tree Preservation Order	TPO
Arboricultural Method Statement	AMS
British Standard 5837:2012 – Recommendations for Trees in Relation to Design, Demolition and Construction	BS 5837
British Standard 3998:2010 - Recommendations for Tree Work	BS 3998
Root Protection Area/Root Protection Areas	RPA/RPAs
Local Planning Authority	LPA

2.0 The Proposal

- 2.1 It is proposed to construct a basement under part of the rear of the house and the rear garden.

3.0 Instructions and Purpose

- 3.1 This report has been commissioned by Mr. Andrew Neale to;
- Survey the trees in accordance with British Standard (BS 5837) 5837:2012 - Trees in Relation to Design, Demolition and Construction- Recommendations.
 - Make suggestions to decrease the arboricultural impact of the proposed scheme on the retained trees.
 - Detail the arboricultural impact of the proposed project.
 - Prepare a tree work schedule to British Standard (BS 3998) 3998:2010 - Recommendations for Tree Work.
 - Develop a tree protection strategy for the duration of the development including any demolition works.
- 3.2 Provision of the above information is designed to address the requirements of the LPA in terms of the arboricultural information necessary to register and determine the planning application.

4.0 Scope

- 4.1 In surveying the trees to the requirements of BS 5837, trees on and immediately adjacent to the site with a stem diameter over 75mm have been included. Large shrubs and hedges have been included where these are considered to be of significant amenity value. These are particularly important where they provide boundary screening. For clarity and ease of data interpretation, large shrubs have been classified as trees.

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

5.0 Documents Supplied/Used

Document	Obtained From	Format/Ref.
Existing and proposed layout plans	Mr. Andrew Neale	Dwg.

6.0 Site Details

- 6.1 The site is comprised of a residential dwelling with a detached garage, associated gardens and hard surfaces.
- 6.2 The site is within the administrative jurisdiction of the London Borough of Camden.
- 6.3 I have not been instructed to ascertain the protection status of any of the trees on or near the site.

TREE SURVEY

7.0 Survey Method

- 7.1 The site and trees were inspected on 12th July 2016.
- 7.2 The trees were inspected from ground level and no climbing inspections were undertaken.
- 7.3 Stem diameters were measured using a diameter tape at 1.5m from ground level. The locations of the surveyed trees has originated from the drawings supplied by the client unless otherwise stated in the Tree Survey Schedule.

8.0 Tree Details

8.1 The total number of records is as follows:

Individual Trees (T): 10

Tree Groups (G): 3

8.2 The tree details and proposed works are presented in the Tree Survey Schedule with Recommended Tree Works at **Appendix 1** and tree positions are shown on the Tree Protection Plan at **Appendix 2**.

8.3 The quality and value of the tree stock has been broken down by BS 5837 quality grade. The grading system can be summarised as follows:

A Grade – trees of high quality and value with a life expectancy of more than 40 years

B Grade – trees of moderate quality and value, with a life expectancy of more than 20 years

C Grade – trees of low quality and value, with a life expectancy of more than 10 years

U Grade – trees for removal, with a life expectancy of less than 10 years

Quality and Value of Existing Tree Stock

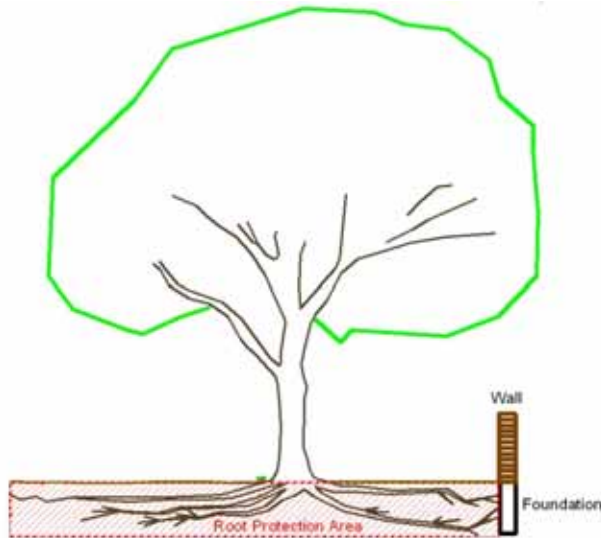
Total No. Trees (18)	A Grade	B Grade	C Grade	U Grade
No. of Trees	0	2	16	0

8.4 The RPAs of the trees are included in the Tree Survey Schedule with reference to Table 1 of BS 5837. The RPA is the area, measured in m², which is calculated in accordance with the BS 5837 using the stem diameter of the trees. This should provide retained trees with sufficient rooting environment to survive the proposed development. Section 4.6.3 of BS 5837 provides for the shape of the RPA to be modified from the starting point of a circle to account for site features where rooting may be restricted, as long as the total area remains the same.

Chalice Consulting Ltd.

Holmwood Farm Grange Horsham Road North Holmwood Dorking Surrey RH5 4JR
Tel: 01306 743374 Email: info@chaliceconsulting.co.uk Web: www.chaliceconsulting.co.uk

Diagrammatic Representation of a Restricted Root Protection Area



Modified RPAs

Tree No.	Impediments to Normal Rooting
G7, T8 and T9	Existing hard surfacing and buildings

ARBORICULTURAL IMPACT ASSESSMENT

9.0 Introduction to Arboricultural Impact Assessment

- 9.1 This section comprises an assessment of the impact the proposed works detailed in Section 2 above have on trees. It considers the arboricultural impact and how this may be mitigated.

10.0 Tree Removal and Retention

- 10.1 The proposed scheme provides for the retention and protection of all the trees surveyed with the exception of trees T5 and T6.

11.0 Tree Pruning Works

- 11.1 Minor tree pruning is recommended for good arboricultural practice and to ensure reasonable clearance from the proposed construction. The pruning described in the Tree Survey Schedule with Recommended Tree Works at

Appendix 1 will not adversely affect the trees or their contribution to local amenity.

12.0 Incursions into Root Protection Areas

- 12.1 There are no significant incursions into the RPAs of retained trees within this scheme.
- 12.2 No new underground services are to be installed within the RPAs of retained trees.

13.0 Proximity Issues and Shading

- 13.1 The approximate shade segments for key retained trees have been plotted using the ArborCAD software system, which identifies the area of the site which may be affected by shade during the course of the day. The shade segment does not represent the area which will be in shade all day long; however, it represents an area which **may** be affected **at some point** during the course of a day by shade depending on the time of day and season.
- 13.2 The juxtaposition between retained trees and the proposed development is in accordance with Section 5.3 of the BS 5837 and should not lead to future pressure to heavily prune or remove retained trees for the following reasons:
 - 1. Tree pruning has been recommended to provide adequate separation between the proposed development and the retained trees.
 - 2. Any future tree pruning works are unlikely to be over and above those generally accepted as good arboricultural practice in an urban environment.
 - 3. Low maintenance gutters can be specified to negate the need for removing leaves from the rainwater collection system.

14.0 Summary of Arboricultural Impact

- 14.1 In summary, the arboricultural impact of the proposed scheme is relatively minor as only two trees located in the rear of the property are to be removed.
- 14.2 The retained trees can be afforded an appropriate degree of protection in accordance with the BS 5837 as detailed in the AMS.

ARBORICULTURAL METHOD STATEMENT

15.0 Introduction to Arboricultural Method Statement

- 15.1 To safeguard the retained trees (both above and below ground parts) during the development works and preserve the soil structure of areas which could be allocated for new planting, it will be necessary to implement tree protection measures as outlined below.
- 15.2 The basic principle is that the area inside the tree protective fencing and where ground protection has been used is to be protected for the duration of the works.
- 15.3 A copy of this AMS shall be maintained on site at all times and made available to all site personnel.
- 15.4 All site personnel shall be made aware of the key impact of this AMS and be given an arboricultural induction by the Site Manager. An Induction Form is attached at **Appendix 4**. A copy of the Induction Form will be signed by all site personnel to confirm that they have understood the issues involved.
- 15.5 As of 2005, Local Planning Authorities have powers to serve **Temporary Stop Notices** if agreed tree protection measures are not carried out. Adhering to this AMS will ensure that such costly and time consuming action is avoided.

16.0 Pre-Commencement Meeting

- 16.1 A pre-commencement site meeting, involving representatives from the Development Company, the Arboricultural Consultant and the LPA Tree Officer will be held to ensure that all aspects of the tree protection process are understood and agreed. A record of the meeting will be communicated to all parties by the Arboricultural Consultant.

17.0 General Site Precautions

- 17.1 The following points will be observed at all times:
- No fires will be lit on site during the construction or demolition phases.
 - No access will be permitted inside the tree protective fencing.
 - No materials, equipment or debris will be stored within the tree protective fencing.
 - Notice boards, telephone cables or other services will not be attached to any parts of retained trees.
 - Materials which will contaminate the soil (e.g. diesel oil and vehicle washings) will not be permitted to migrate into the RPAs of retained trees.
 - A dedicated mixing and cleaning area will be set up to prevent concrete, cement and cleaning residue leaching into the RPAs of the retained trees (see Tree Protection Plan for specification).

18.0 Tree Works

- 18.1 All works will be carried out in accordance with BS 3998:2010 'Recommendations for Tree Work' (as amended) and to current arboricultural best practice. Tree works will be carried out by a suitably qualified and experienced Arboricultural Contractor holding the necessary insurance cover. This contractor should carry out the relevant site specific risk assessments and record such information prior to commencement of tasks and work in accordance with current health and safety standards, practices and legislation. A list of such contractors is available from the Arboricultural Association at www.trees.org.uk.

18.2 The subject trees may be protected by virtue of being within a Conservation Area or covered by a TPO. Submission of this AMS in connection with a planning application should be construed as a formal application to carry out those works specified in the Tree Survey Schedule with Recommended Tree Works at **Appendix 1**. It is recommended that this matter be clarified in writing with the LPA prior to any works commencing.

18.3 If additional pruning of trees is required 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.

19.0 Tree Protective Fencing

19.1 Tree protective fencing is used to ensure that the RPAs of retained trees are safeguarded. These measures may also be employed to protect areas of ground for new landscaping.

19.2 The positioning and specification of the fencing is shown in **Appendix 2**. In this case, the default specification of BS 5837 consisting of **fixed Heras** fencing would be effective.

19.3 The protective fencing will remain in position for the duration of the development, including the removal of any existing structures. Clear signs will be attached to the fencing once erected – suggested wording will be **‘Construction Exclusion Zone No Access’**.

20.0 Ground Protection

20.1 In this instance, there is no requirement for ground protection as the RPAs of the retained trees can be afforded an adequate degree of protection using tree protective fencing.

21.0 Site Access/Hard Surfaces

21.1 The existing footpath is suitable for site access during construction and little or no damage is anticipated to the root systems of retained trees.

22.0 Demolition

- 22.1 There is no requirement for demolition within the RPAs of retained trees.

23.0 Underground Services

- 23.1 The proposed scheme can make use of existing services and all new services will be located in the adequate space outside the RPAs of the retained trees.
- 23.2 The locations, specifications and installation methods of all new services will be available for review at the pre-commencement site meeting before any works start on site.

24.0 Foundations

- 24.1 The foundations for the proposed basement are located outside the RPAs of retained trees, therefore, the design and installation of specialised foundations is not required.

25.0 Construction/Hard Landscaping

- 25.1 There is no requirement for additional construction or hard landscaping that will affect the surveyed trees.
- 25.2 Construction is taken to include erection of scaffolding and the installation of associated hard landscaping features such as retaining walls, patios, and cycle stores.
- 25.3 In this instance, retained trees will not impede the erection of scaffolding and no ancillary structures are proposed within the RPAs of the retained trees.
- 25.4 Subject to all of the above tree protection measures being implemented, construction works may proceed without risk of damage to retained trees.

26.0 Soft Landscaping/Boundary Fencing

26.1 Soft landscaping will be undertaken when heavy machinery has been removed from site and tree protective fencing taken down. The following points will be observed:

- Care will be taken not to compact the soil within the RPAs of retained trees or where new tree planting is to be carried out.
- No changes in ground levels will occur within the RPAs of the retained trees.
- Unwanted vegetation will be removed manually or using contact herbicides that will not damage existing tree roots.
- No irrigation or drainage pipes will be installed within the RPAs of retained trees.
- 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.

27.0 Sequencing and Supervision

27.1 Effective tree protection relies on following a logical sequence of events and arboricultural inspection/supervision.

27.2 Works which have the potential to affect trees will be supervised by a suitably qualified and experienced Arboricultural Consultant. Regular inspection visits will also be undertaken to ensure that tree protection measures are being adhered to. The final details of supervision and the frequency of inspection visits will be agreed with the Tree Officer at the pre-commencement meeting. The Arboricultural Consultant will make a record of visits, which will be attached to the site copy of the AMS for inspection and communicated in writing to the LPA. An example of the Site Inspection Record is found in **Appendix 3**.

Sequencing and Supervision

Stage	Action	Personnel Responsible
1.	Issue arboricultural report to site manager	Client/Developer
2.	Give Arboricultural Consultant (AC) at least a week's notice of pre-commencement meeting	Client/Developer
3.	Pre-commencement meeting	Site Manager, Tree Officer and AC
4.	Arboricultural induction	Site Manager
5.	Carry out tree works	AC to monitor
6.	Erect tree protective fencing	AC to inspect
7.	Construct foundations	Site Manager
8.	Install underground services	AC to supervise
9.	Erect scaffolding and carry out construction (including hard landscaping)	Site Manager
10.	Remove machinery/plant	Site Manager
11.	Remove tree protective fencing	Site Manager
12.	Carry out soft landscaping and erect boundary fencing	Site Manager to brief landscaping company on site and supervise

28.0 Amendments

- 28.1 Issues sometimes arise on development sites which require amendments to the previously agreed tree protection details. Any amendments to this AMS will be discussed with the Arboricultural Consultant and approved in writing by the LPA prior to being implemented. Copies of paperwork relating to any amendments shall be attached to the site copy of the AMS to provide a definitive record of what has been agreed.

29.0 List of Contacts

Contact	Name	Company/LPA	Contact Number(s)	Report Issued to?
Client	Mr. Andrew Neale	-	-	Yes
Arboricultural Supervisor	Mr. David Challice	Challice Consulting Ltd.	01306 743374 07831 855764	N/a

Appendix 1

Site: 13 Downshire Hill, Camden, London NW3 1NR

Date Surveyed: 12th July 2016

Surveyor: Mr. David Challice

Our Ref: CC/1634 AR3077

Tree No.	English Name	Height	Crown Spread	Ground Clearance	Age Class	Stem Diameter	Protection Multiplier	Protection Radius	Growth Vitality	Structural Condition	Landscape Contribution	B.S. Cat	Sub Cat	Useful Life	Observations
T1	Purple Plum 1 Number	14	3 4 5 4	GC 1.5 FB 1.5 S	Mature	320 1	12	3.8	Moderate	Fair	Medium	C	1,2	10+	Crown suppressed by larger nearby trees
<u>Recommended Works/Reason for Works:</u>		No work proposed													
T2	Yew 1 Number	14	5 5 5 5	GC 1.5 FB 0.5 N	Mature	640 3 est	12	7.7	Normal	Good	Medium	B	1,2	40+	Tree located off site
<u>Recommended Works/Reason for Works:</u>		No work proposed													
T3	Elm 1 Number	18	5 6 8 8	GC 4 FB 3 N	Mature	600 1 est	12	7.2	Normal	Good	Medium	B	1,2	40+	Tree located off site
<u>Recommended Works/Reason for Works:</u>		No work proposed													
T4	Himalayan Birch 1 Number	7	3 3 3 3	GC 1.5 FB 1.5 N	Semi-Mature	86 2	12	1.0	Normal	Good	Low	C	1,2	40+	A tree with insignificant defects
<u>Recommended Works/Reason for Works:</u>		Crown lift to 2.5m									Recommended to permit development				
T5	Japanese Maple 1 Number	5	1 2 3 3	GC 0.75 FB 0.3 S	Semi-Mature	130 2	12	1.6	Normal	Good	Low	C	1,2	40+	Replaceable tree
<u>Recommended Works/Reason for Works:</u>		Fell and replant									Recommended to permit development				

Notes:

- Height describes the approximate height of the tree measured in meters from ground level.
- The Crown Spread refers to the crown radius in meters from the stem centre and is shown above on each of the four compass points (i.e. N, S, E, W).
- Ground Clearance (**GC**) is the height in meters of crown clearance above adjacent ground level, the height of the first significant branch (**FB**) and the direction in which it is growing.
- Stem Diameter is the diameter of the stem measured in millimeters at 1.5m from ground level. The stem diameter may be estimated (**est**) where access is restricted or an average (**ave**) taken for groups or multi-stemmed trees with more than five stems. The number of stems is also indicated.
- Protection Multiplier is the number used to calculate the tree's protection radius and area and is shown as 12.

- Protection Radius is a radial distance measured from the trunk centre.
- Growth Vitality - Normal growth, Moderate (below normal), Poor (sparse/weak) or Dead (dead or dying tree).
- Structural Condition - Good (no or only minor defects), Fair (remedial defects), Poor (major defects present).
- Landscape Contribution - High (prominent landscape feature), Medium (visible in landscape), Low (secluded/among other trees).
- B.S. Cat refers to British Standard 5837:2012 Table 1 and refers to tree/group quality and value; '**A**' - High, '**B**' - Moderate, '**C**' - Low, '**U**' - Remove.
- Sub Cat refers to the retention criteria values where 1 is Arboricultural, 2 is Landscape and 3 is Cultural including Conservational, Historic and Commemorative.
- Useful Life is the tree's estimated remaining contribution in years.

Site: 13 Downshire Hill, Camden, London NW3 1NR

Date Surveyed: 12th July 2016

Surveyor: Mr. David Challice

Our Ref: CC/1634 AR3077

Tree No.	English Name	Height	Crown Spread	Ground Clearance	Age Class	Stem Diameter	Protection Multiplier	Protection Radius	Growth Vitality	Structural Condition	Landscape Contribution	B.S. Cat	Sub Cat	Useful Life	Observations
T6	Cotoneaster 1 Number	5	1 2 3 3	GC 0.75 FB 0.3 S	Semi-Mature	150 2	12	1.8	Normal	Good	Low	C	2	40+	Replaceable tree
<u>Recommended Works/Reason for Works:</u>		Fell and replant					Recommended to permit development								
G7	Mature Shrubs 2 Number	5	2 2 2 2	GC 0 FB 0 N	Early Mature	100 1 est	12	1.2	Normal	Fair	Low	C	1,2	10+	Located off site
<u>Recommended Works/Reason for Works:</u>		Cut back to boundary					Recommended to permit development								
T8	Snowy Mespil 1 Number	6	4 4 4 4	GC 1 FB 1 N	Mature	173 3	12	2.1	Moderate	Fair	Low	C	1,2	10+	Significant deadwood throughout crown Located off site A sparser than normal canopy
<u>Recommended Works/Reason for Works:</u>		No work proposed													
T9	Wetern Red Cedar 1 Number	11	1 3 3 2	GC 2 FB 1 N	Mature	400 1 est	12	4.8	Moderate	Fair	Medium	C	1,2	10+	Tree located off site
<u>Recommended Works/Reason for Works:</u>		Cut back to boundary only					Advisable for good arboricultural practice								
T10	Magnolia 1 Number	7	3 3 3 3	GC 2.5 FB 2 N	Early Mature	300 1 est	12	3.6	Normal	Fair	Medium	C	1,2	20+	Tree located off site
<u>Recommended Works/Reason for Works:</u>		Crown reduce over subject property by 1.5m					Recommended to permit development								

Notes:

- Height describes the approximate height of the tree measured in meters from ground level.
- The Crown Spread refers to the crown radius in meters from the stem centre and is shown above on each of the four compass points (i.e. N, S, E, W).
- Ground Clearance (**GC**) is the height in meters of crown clearance above adjacent ground level, the height of the first significant branch (**FB**) and the direction in which it is growing.
- Stem Diameter is the diameter of the stem measured in millimeters at 1.5m from ground level. The stem diameter may be estimated (**est**) where access is restricted or an average (**ave**) taken for groups or multi-stemmed trees with more than five stems. The number of stems is also indicated.
- Protection Multiplier is the number used to calculate the tree's protection radius and area and is shown as 12.

- Protection Radius is a radial distance measured from the trunk centre.
- Growth Vitality - Normal growth, Moderate (below normal), Poor (sparse/weak) or Dead (dead or dying tree).
- Structural Condition - Good (no or only minor defects), Fair (remedial defects), Poor (major defects present).
- Landscape Contribution - High (prominent landscape feature), Medium (visible in landscape), Low (secluded/among other trees).
- B.S. Cat refers to British Standard 5837:2012 Table 1 and refers to tree/group quality and value; '**A**' - High, '**B**' - Moderate, '**C**' - Low, '**U**' - Remove.
- Sub Cat refers to the retention criteria values where 1 is Arboricultural, 2 is Landscape and 3 is Cultural including Conservational, Historic and Commemorative.
- Useful Life is the tree's estimated remaining contribution in years.

Site: 13 Downshire Hill, Camden, London NW3 1NR

Surveyor: Mr. David Challice

Date Surveyed: 12th July 2016

Our Ref: CC/1634 AR3077

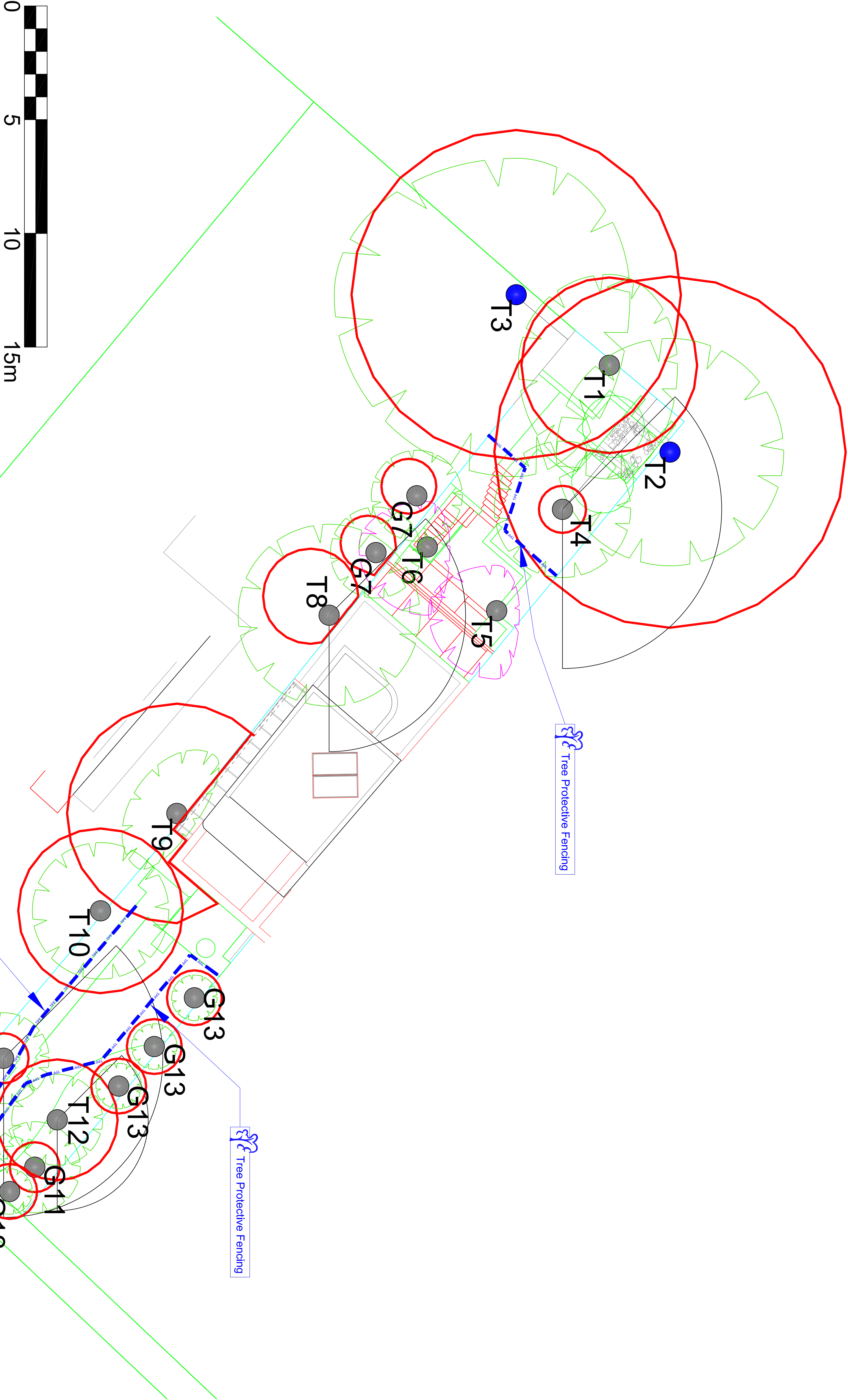
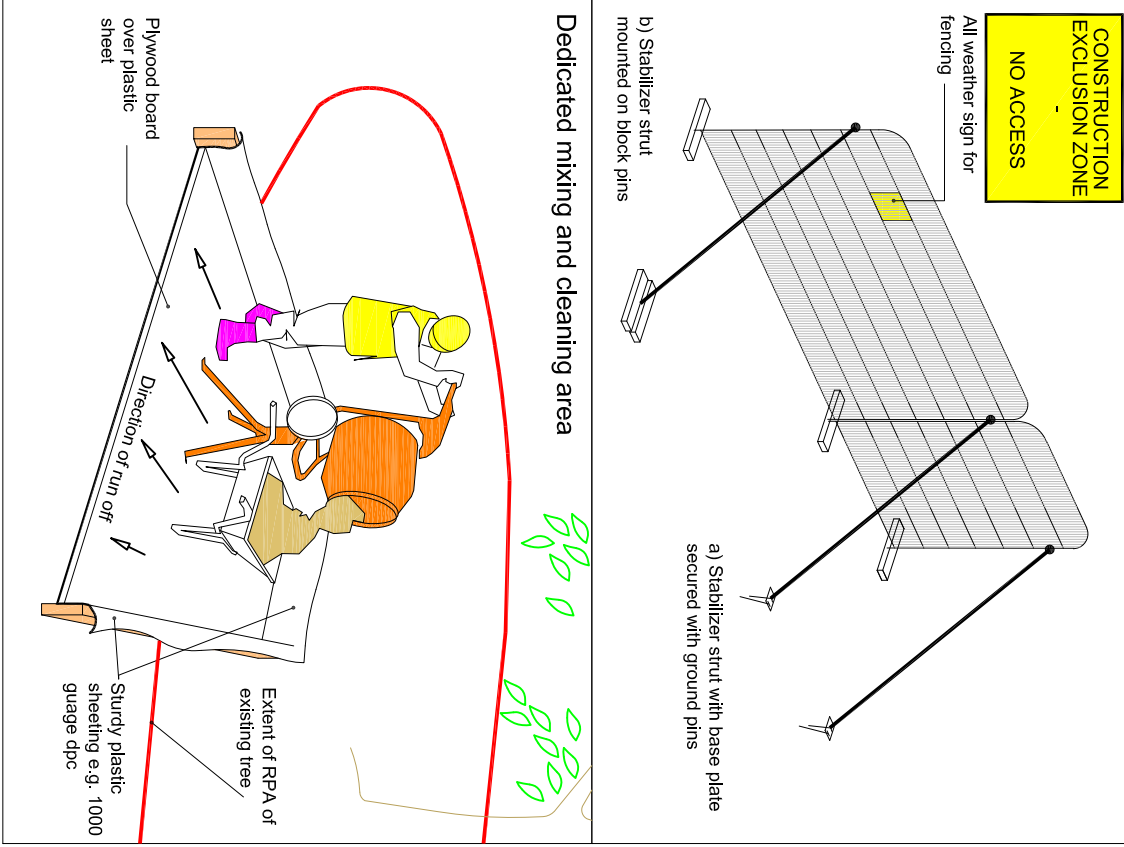
Tree No.	English Name	Height	Crown Spread	Ground Clearance	Age Class	Stem Diameter	Protection Multiplier	Protection Radius	Growth Vitality	Structural Condition	Landscape Contribution	B.S. Cat	Sub Cat	Useful Life	Observations
G11	Himalayan Birch 2 Number	7	2 2 2	GC 1.5 FB 0 N	Semi-Mature	91 3	12	1.1	Normal	Good	Low	C	2	40+	Trees with insignificant defects
<u>Recommended Works/Reason for Works:</u>		No work proposed													
T12	Akiraho 1 Number	4	2 2 2	GC 0.75 FB 0.75 N	Early Mature	220 1	12	2.6	Normal	Good	Medium	C	1,2	40+	A tree with insignificant defects
<u>Recommended Works/Reason for Works:</u>		No work proposed													
G13	Mature Shrubs 4 Number	5	1 1 1	GC 0 FB 0 N	Early Mature	100 1 est	12	1.2	Normal	Fair	Low	C	2	10+	Trees with insignificant defects
<u>Recommended Works/Reason for Works:</u>		No work proposed													

Notes:

- Height describes the approximate height of the tree measured in meters from ground level.
- The Crown Spread refers to the crown radius in meters from the stem centre and is shown above on each of the four compass points (i.e. N, S, E, W).
- Ground Clearance (**GC**) is the height in meters of crown clearance above adjacent ground level, the height of the first significant branch (**FB**) and the direction in which it is growing.
- Stem Diameter is the diameter of the stem measured in millimeters at 1.5m from ground level. The stem diameter may be estimated (**est**) where access is restricted or an average (**ave**) taken for groups or multi-stemmed trees with more than five stems. The number of stems is also indicated.
- Protection Multiplier is the number used to calculate the tree's protection radius and area and is shown as 12.

- Protection Radius is a radial distance measured from the trunk centre.
- Growth Vitality - Normal growth, Moderate (below normal), Poor (sparse/weak) or Dead (dead or dying tree).
- Structural Condition - Good (no or only minor defects), Fair (remedial defects), Poor (major defects present).
- Landscape Contribution - High (prominent landscape feature), Medium (visible in landscape), Low (secluded/among other trees).
- B.S. Cat refers to British Standard 5837:2012 Table 1 and refers to tree/group quality and value; '**A**' - High, '**B**' - Moderate, '**C**' - Low, '**U**' - Remove.
- Sub Cat refers to the retention criteria values where 1 is Arboricultural, 2 is Landscape and 3 is Cultural including Conservation, Historic and Commemorative.
- Useful Life is the tree's estimated remaining contribution in years.

Appendix 2



THIS PLAN TO BE USED
FOR SETTING OUT OF
TREE PROTECTION
MEASURES ONLY; DO
NOT SCALE FROM THIS
PLAN UNLESS IT IS
PRINTED AT A1. DO NOT
USE UNLESS PRINTED IN
COLOUR



KEY:

	Shade patterns for key retained trees
	BS roofing area is shown uniform but may be modified to account for site features
	BS roofing area has been modified to account for site features
	A Grade
	B Grade
	C Grade
	U Grade (remove)
	Tree to be removed
	Position of fixed Heias style fencing

Challice Consulting Ltd.
annotation

Notes:

Tree protection barrier to be erected and installed before machinery or materials are brought onto site, before any demolition or development of land and before soil stripping.

Tree protection measures should be implemented following any necessary pre-development tree work.

Barriers must not be removed or altered except with prior recommendation by project arboriculturist and where necessary, approval from the Local Planning Authority.

Setting out to be confirmed by project arboriculturist prior to commencement of other operations.

Plan to be printed in colour and to scale

Tree Protection Plan

13 Downshire Hill, Camden,
London NW3 1NR

SCALE: 1:100 @ A1 19.07.2016 D.C.
TTP-CG/1634 AR3077 10



Challice Consulting Ltd.
Holmwood Farm Grange
Horsham Road
North Holmwood
Dorking
Surrey
RH5 4JR
Tel: 01306 745374
Email: info@challiceconsulting.co.uk
Web: www.challiceconsulting.co.uk

Appendix 3

Site: Sample
Inspected By: D. Challice
Client: The Builder
Site Agent: No staff present

Date of Inspection:
Time of Inspection:

Tree Protective Fencing

Tree protection in correct location

Comments/Action

No action at this time



Tree protection T23

Agreed Construction Exclusion Zone

No debris within construction exclusion zone

Comments/Action

No action at this time

Amendments to Documentation Required

No amendments required

Comments/Action



Tree protection T14

Remedial Works

Install protection as per Arboricultural Method Statement

General Comments

No ground protection in place for T11,12,14,17 & 22
Sweet Gum T1 not removed

Appendix 4

Induction Form for all Site Personnel:

Site Name:

- I have had explained to me by the Site Manager the key implications of the Arboricultural Method Statement relating to the development at the above site.
- I am aware that the tree protective fencing must remain in its original position and must not be moved without the approval of the appointed Arboricultural Consultant.
- I understand that certain operations must be supervised by the appointed Arboricultural Consultant and that these operations must not start until the consultant is present and has given approval.
- I confirm that I will bring any concerns about potential damage to trees to the attention of the Site Manager.
- I am aware that I must not cause damage to any of the retained trees on or adjacent to the site. Damage may be caused by direct means (i.e. physical damage caused to roots or the trunk/branches of the tree) or by indirect means (e.g. by fire or toxic materials entering the rooting environment of the tree).

Print Name:

Sign Name:

Date: