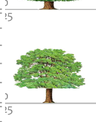
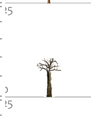
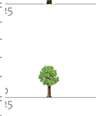
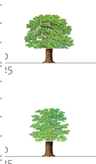
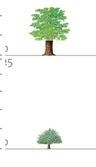
Tree Data Schedule

Reference C = Conifer H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)	Crown Spread (m) W N E S	Scaled Tree Diagram (m)	Notes	Recommendations (Independent of any development proposals) Priority	Inspect Freq (yrs)	Vigour / Physiological Condition / Structural Condition	Amenity Value / Life Expectancy (yrs) / Retention Category
T1	Mature **Horse Chestnut** Aesculus hippocastanum.	15	1.5	70	W 6, N 6, E 6, S 6		Position: Situated on third party land. Form: Multi-stemmed at 4m with a balanced crown. History: Previously reduced. **Defects: No significant defects observed.** Other: Limited inspection, dimensions estimated.	No action required. n/a	3	Moderate / Good / Good	High / 40+ / A
T2	Early-Mature **Sycamore** Acer pseudoplatanus.	14	4	40	W 6, N 6, E 6, S 6		Position: Situated on third party land. Form: Multi-stemmed at 3m with a balanced crown. History: No evidence of significant pruning. **Defects: No significant defects observed.** Other: Limited inspection, dimensions estimated.	No action required. n/a	3	Moderate / Good / Fair	Moderate / 40+ / B
T3	Early-Mature **Lime** Tilia sp.	14	4	60	W 5, N 4, E 4, S 5		Position: Situated on third party land. Form: Twin-stemmed at 0.5m with a slightly unbalanced crown. History: One stem topped at 5m. **Defects: Minor deadwood to lower crown.** Other: Limited inspection, dimensions estimated.	No action required. n/a	3	Moderate / Good / Fair	Low / 40+ / C
T4	Young **Cherry Laurel** Prunus laurocerasus.	3.5	0.5	8	W 1, N 2, E 1, S 1		Position: Situated within the rear garden. Form: Single stemmed with a slight lean and a slightly unbalanced crown. History: No evidence of significant pruning. **Defects: No significant defects observed.**	No action required. n/a	3	Moderate / Good / Good	Low / 40+ / C
T5	Semi-Mature **Dead Tree**	9	7	32	W 2, N 0.5, E 2, S 3		Position: Situated within the rear garden. Form: Single stemmed with a slight lean and a slightly unbalanced crown. History: No evidence of significant pruning. **Defects: Dead tree.** Other: Vegetation prevented detailed inspection.	Remove. Moderate	N/A	Dead / Dead / Dead	Dead / Dead / U
T6	Young **Sycamore** Acer pseudoplatanus.	7	3	13	W 1, N 1, E 2.5, S 1		Position: Situated on third party land. Form: Single stemmed with a slight lean and an unbalanced crown. History: No evidence of significant pruning. **Defects: No significant defects observed.** Other: Poor specimen. Limited inspection, dimensions estimated.	No action required. n/a	3	Moderate / Fair / Fair	Low / 40+ / C
T7	Early-Mature **Sycamore** Acer pseudoplatanus.	12	4	45	W 4, N 4, E 4, S 4		Position: Situated on third party land. Form: Multi-stemmed at 3.5m with a balanced crown. History: Previously topped at 3.5m. **Defects: No significant defects observed.** Other: Limited inspection, dimensions estimated.	No action required. n/a	3	Moderate / Good / Fair	Low / 40+ / C
T8	Early-Mature **Ash** Fraxinus excelsior.	12	4	50	W 3, N 4, E 3, S 3		Position: Situated on third party land. Form: Multi-stemmed at 6m with a slightly unbalanced crown. History: Previously reduced heavily. **Defects: No significant defects observed.** Other: Potential for Ash Die Back. Limited inspection, dimensions estimated.	No action required. n/a	3	Moderate / Good / Fair	Low / 40+ / C
T9	Young **Plum** Prunus sp.	4	0.5	9	W 2, N 0.5, E 2, S 3		Position: Adjacent eastern boundary. Form: Multi-stemmed at ground level with an unbalanced crown. History: No evidence of significant pruning. **Defects: No significant defects observed.**	No action required. n/a	3	Moderate / Good / Good	Low / 40+ / C

Tree Constraints Plan

Drawing No:	CCL 10933 / TCP Rev: 1
Title:	Tree Constraints Plan (Existing Layout)
Site:	19 Belsize Square NW3 4HT
Scale:	1:100 (0 – 5)
Paper Size:	A1

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Tree Retention Categories
Stems & canopies shown

Category A tree	Trees of high quality with an estimated life expectancy of 40+ years. Usually large trees with significant presence or smaller trees with excellent form. Retention of these trees is highly desirable.
Category B tree	Trees of moderate quality with a life expectancy of 20+ years. Usually maturing trees, or younger trees with good form. Retention of these trees is desirable though less than Category A trees
Category C tree	Unremarkable trees of low quality and merit. Individual specimens are not considered to be a material planning consideration.
Category U tree	Trees unsuitable for retention due to their very poor condition.

Tree Constraints Plan

Existing Layout

BS 5837 Root Protection Area (radius = 12xstem diameter)

Root Protection Area needing amendment due to site conditions, e.g. presence of exising road or building.

Root Protection Area having been amended to account for for site conditions

T1 = Tree No 1 G2 = Group No 2 H3 = Hedge No 3

1 Photo 1

MN = Measured North:

Canopy spreads are sometimes measured to an approximate N defined by site features. Often more accurate, especially where rows of trees are not aligned N-S or E-W.

Tree Ref.	Species	Height (m)	Root Protection Area Radius (m)	m²	Square (m)
T1	Horse Chestnut	15	8.4	222	14.9
T2	Sycamore	14	4.8	72	8.5
T3	Lime	14	7.2	163	12.8
T4	Cherry Laurel	3.5	1.0	3	1.7
T5	Dead Tree	9	3.8	46	6.8
T6	Sycamore	7	1.6	8	2.8
T7	Sycamore	12	5.4	92	9.6
T8	Ash	12	6.0	113	10.6
T9	Plum	4	1.1	4	1.9

Tree Constraints Plan

Excerpts from the Arboricultural Impact Assessment

Overview

It is proposed to construct a new garden room and improve the existing landscaping within the rear garden, as indicated on the plans in Appendix 6. The existing layout is indicated in black, and the footprint of the proposed layout is indicated in green.

The table below summarises the potential impact on trees due to various activities.

Activity	Trees Potentially Affected
Tree Removal: Retention Category A	None
Tree Removal: Retention Category B	None
Tree Removal: Retention Category C	T4
Tree Removal: Retention Category U	T5
Tree Pruning	T9
RPA: Garden Room Foundations	T3
RPA: Other Foundations	None
RPA: New Hard Surface	T3 and T9
RPA: Replace Existing Hard Surface	None
RPA: Underground Services	None Anticipated
RPA: Change of Ground Levels	None
RPA: Soil Compaction	Trees adjacent the construction area (preventable by installing tree protection measures)

Other potentially damaging activities often associated with construction sites include demolition or the careless use of plant machinery, hazardous materials, or fires. All of the above potential impacts are considered in detail throughout this section.

The accompanying Arboricultural Method Statement (duplicated in Appendix 6) specifies the measures proposed to minimise all possible potential risks of damage to the retained trees.

Tree Removal

All trees to be removed are indicated on the Tree Removal Plan and are listed below:

- **Retention Category A:** It is proposed to retain all Retention Category A trees.
- **Retention Category B:** It is proposed to retain all Retention Category B trees.
- **Retention Category C:** It is proposed to remove the Retention Category C shrub, T4. This is located so close to the proposed garden room that its retention is not possible

  This is a 3.5m tall cherry laurel which is located within the rear garden and is not visible from public vantage points. Consequently, it is considered to have a low amenity value. Its removal shall not have a significant impact on the visual amenity of the locality, and it is not considered to be a material planning consideration.
- **Retention Category U:**

  It is not necessary to remove any Retention Category U trees to facilitate the proposal. However, it is proposed to remove T5 due to its poor condition.

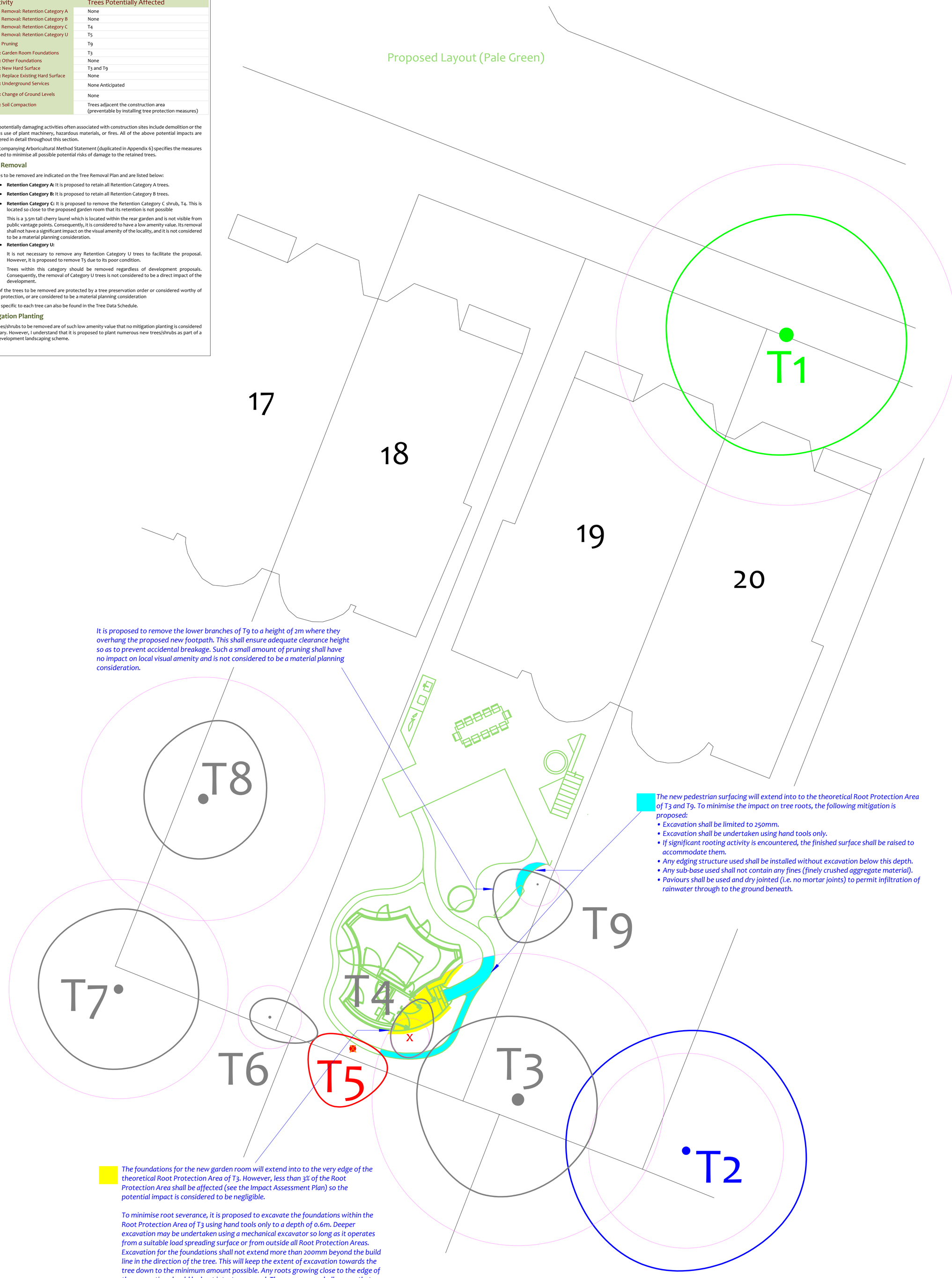
  Trees within this category should be removed regardless of development proposals. Consequently, the removal of Category U trees is not considered to be a direct impact of the development.

None of the trees to be removed are protected by a tree preservation order or considered worthy of special protection, or are considered to be a material planning consideration

Details specific to each tree can also be found in the Tree Data Schedule.

Mitigation Planting

The trees/shrubs to be removed are of such low amenity value that no mitigation planting is considered necessary. However, I understand that it is proposed to plant numerous new trees/shrubs as part of a post development landscaping scheme.



N
MN

Impact Assessment Plan

(Existing Layout with Proposals Overlaid)

Tree Ref.	Species	Height (m)	Root Protection Area		
			Radius (m)	m²	Square (m)
T1	Horse Chestnut	15	8.4	222	14.9
T2	Sycamore	14	4.8	72	8.5
T3	Lime	14	7.2	163	12.8
T4	Cherry Laurel	3.5	1.0	3	1.7
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T6	Sycamore	7	1.6	8	2.8
T7	Sycamore	12	5.4	92	9.6
T8	Ash	12	6.0	113	10.6
T9	Plum	4	1.1	4	1.9

Drawing No:	CCL 10933 / IAP Rev: 1
Title:	Impact Assessment Plan (Existing Layout with Proposals Overlaid)
Site:	19 Belsize Square NW3 4HT
Scale:	1:100 (0 – 5)
Paper Size:	A1

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Tree Retention Categories
Stems & canopies shown

- Category A tree — Trees of high quality with an estimated life expectancy of 40+ years. Usually large trees with significant presence or smaller trees with excellent form. Retention of these trees is highly desirable.
- Category B tree — Trees of moderate quality with a life expectancy of 20+ years. Usually maturing trees, or younger trees with good form. Retention of these trees is desirable though less than Category A trees
- Category C tree — Unremarkable trees of low quality and merit. Individual specimens are not considered to be a material planning consideration.
- Category U tree — Trees unsuitable for retention due to their very poor condition.

Impact Assessment Plan
Existing Layout with Proposals Overlaid

- BS 5837 Root Protection Area (radius = 12xstem diameter)
- Root Protection Area needing amendment due to site conditions, e.g. presence of exising road or building.
- Root Protection Area having been amended to account for for site conditions

T1 = Tree No 1 G2 = Group No 2 H3 = Hedge No 3

- X — Tree to be removed to facilitate the proposal
- X — Tree to be removed due to its low quality
- Proposed pruning

MN = Measured North:

Canopy spreads are sometimes measured to an approximate N defined by site features. Often more accurate, especially where rows of trees are not aligned N-S or E-W.

Arboricultural Method Statement

CROWN Tree Consultancy 08000 14 13 30	Site: 19 Belsize Square, NW3 4HT		Author: Joe Taylor FdSc (Arboriculture), M. Arbor A
	Date: 15 / 10 / 2021	Revision: 1	CCL ref No: 10933	Client: Dan Pearson Studio

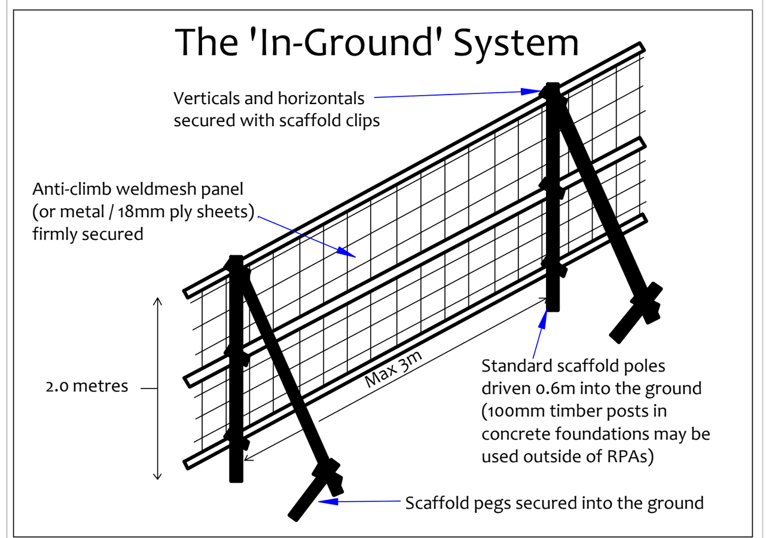
Tree Protection Barriers

The purpose of tree protection barriers is to keep construction activity away from Restricted Activity Zones or Construction Exclusion Zones. They should be appropriate to the nature and proximity of activity within the site. The barriers should be erected prior to the commencement of all activity including demolition, soil stripping and delivery of materials and demolition (except where existing structures require demolition to enable the barriers to be installed). Barrier systems are specified below and should be installed according to the legend on the Tree Protection Plan.

The In-Ground System

This system may be installed where indicated by a solid purple line on the Tree Protection Plan. It should be robust enough to withstand occasional knocks by plant machinery and, once installed, shall remain in place throughout the entire construction phase.

Vertical scaffold poles are driven into the ground, onto which are affixed horizontal scaffold poles and diagonal bracing struts. Weldmesh panels (or similar – e.g. Heras type fencing panels, or 18mm+ plywood boards) are secured to this scaffold framework using sturdy clips e.g. standard scaffold clips. The system is illustrated in the diagram to the right and is based on BS 5837 guidelines.

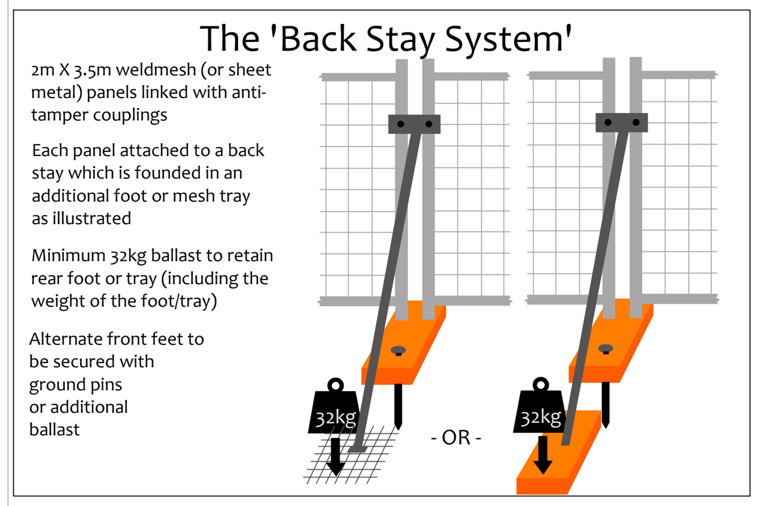


The Back-Stay System

This system may be installed where indicated by a solid or dashed purple line on the Tree Protection Plan. It is more practical over existing hard surfaces or where the fencing needs to be moved to enable permitted activities within a Restricted Activity Zone. This system should be able to withstand occasional knocks by machinery and should not be relocated except with the consent of the site manager and the approval of the local authority.

Within this system, weldmesh fencing panels (minimum height 2m) are affixed into rubber or concrete feet and clipped together with anti-tamper couplers. Two couplers should be used, spaced at least 1m apart. Alternate panels should be attached to a diagonal back stay connected to an additional foot or baseplate secured with ground pins or additional ballast. Where ground pins are not used, the total weight of the foot/plate plus ballast should total not less than 32kg.

Where it is not possible to install diagonal struts (such as very close to a hedge) then the front feet shall be secured using ground pins or ballast.



Notices

Suitable weather-proof notices should be displayed to identify tree protection zones. They should state the purpose of the fencing and that it should not be moved, or traversed, other than by authorised personnel.

Removal of Tree Protection Barriers

Removal of protective fencing or ground protection measures shall be done after all major construction work is complete and their removal has been approved by the appointed arborist.

Ground Protection Measures

Within Restricted Activity Zones, soils containing roots may be subject to compaction due to general construction activity (including pedestrian activity and use of plant machinery). In order to minimise compaction, it is proposed to ensure that a suitable load-spreading surface is in place at all times.

Any existing hard surfacing may be retained where engineers consider it adequate to spread the load of construction traffic. Otherwise it shall be reinforced or replaced with adequate ground protection measures.

Unless specified otherwise, ground protection shall consist of 24mm OSB boards laid at double thickness and screwed together to prevent slippage. The ground shall first be made even by raking, or by adding a few centimetres of sand or woodchip. Where only pedestrian traffic will occur boards or planks may be supported by a scaffold framework. The scaffold may be founded on poles driven into the ground and/or onto blocks (to raise the scaffold) with additional couplings to make the framework secure.

Where engineers consider OSB boards to be inadequate (e.g. for large plant machinery where the tracks may chew up the timber) sturdier ground protection measures will be installed such as road plates, or 100mm of 7–40mm angular gravel installed in 3D cellular confinement system (e.g. CellwebTM).

If a piling mat is required, engineer's specifications should be referred to.

The ground protection measures shall be installed and approved before commencement of demolition and construction activity and before the arrival of plant machinery or materials. They shall remain in place until all heavy construction activity is complete or until they are due to be replaced with a new hard surface.

Construction Exclusion Zones

Within Construction Exclusion Zones the following restrictions shall apply:

- Tree Protection Barriers shall be erected and maintained throughout the entire project as indicated on the Tree Protection Plan and under the header -*Tree Protection Barriers.*
- These shall remain in place at all times except when authorised landscaping works are being undertaken. At such times, adequate ground protection measures shall be installed, and excavation shall be limited to that required for new planting. Furthermore, the project arborist shall be consulted prior to any works being undertaken in these zones.
- No construction activity or excavation shall occur unless agreed otherwise by the project arborist and local authority.
- No vehicles or plant machinery shall be driven or parked.
- No tree works, other than those specified on this document shall be undertaken.
- No alterations of ground levels or conditions shall occur.
- No chemicals or cement washings permitted.
- No temporary structures shall be installed.
- No spoil shall be stored.
- No fires shall be permitted.
- All hazardous materials (including non-essential cement products) shall be forbidden.
- Removal of hard surfaces, structures or turf shall be done using hand operated tools only and supervised by the project arborist.

Tree Works Specification

The following table specifies the tree works which will be required prior to the commencement of construction activity:

Tree Reference	Action Required	Notes
T4 and T5	Remove.	Stumps of trees within the RPAs of retained trees shall be removed with a stump grinder NOT a mechanical excavator.
T9	Crown lift to 2m on the side overhanging the proposed pedestrian surface.	Branches to be pruned back to a secondary branch junction or the branch collar wherever possible.

Timing of Operations

Activity within the site shall be phased according to the following chronology

Order	Phase	Activity
1st.	Pre-Construction Phase	Planning conditions relating to trees to be identified and discussed with the Project arborist and site manager.
2nd.		All specified tree removal and pruning to be undertaken (see Header -*Tree Works Schedule*).
3rd.		Install the tree protection barriers (fencing and ground protection boards - see Headers -*Tree Protection Barriers* and *Ground Protection Measures*).
4th.		Pre-Commencement site meeting: Tree protection barriers inspected. Additional protection measures to be agreed. Variances to be agreed. Location of underground services to be agreed. Extents of excavation to be agreed. Scaffold restrictions to be agreed. Scope of future inspections / monitoring to be agreed.
5th.		Arboricultural Method Statement to be revised and approved inecessary.
Protection measures confirmed acceptable by the local authority		
6th.	Demolition and Construction Phase	Remove existing surfaces where applicable.
7th.		Install new buildings, hard surfaces and services taking into account restricted activities as specified in this Arboricultural Method Statement.
8th.	Post-Construction Phase	Site meeting with project arborist. Landscaping restrictions to be agreed. Condition of retained trees to be assessed and mitigation agreed. Ground conditions to be assessed and ground remediation to be agreed.
9th.		Remove protective barriers (fencing and ground protection measures as applicable).
10th.		Undertake restricted landscaping operations within Root Protection Areas, including (where applicable) boundary treatments, pedestrian surfaces, decking and any proposed tree planting.

Personnel and Accountability

This table should be completed at the Pre-Start Meeting or earlier

Position	Name	Contact Phone & email	Roles
Project Manager	Insert Details	Insert Details	Liaising with site manager & project arborist regarding any potential issues relating to trees. Scheduling of meeting, excavations and inspections. Overseeing this monitoring schedule. Instructing the project arborist and arranging access. Liaising with local authority regarding discharge of planning conditions and variances to the Arboricultural Method Statement.
Site Manager	Insert Details	Insert Details	Day to day monitoring of tree protection measures. Fortnightly supply of site photographs showing all tree protection measures. Induction of all contractors. Reporting to the Appointed Arborist of any incidents or potential variations to the agreed tree protection measures.
Project Arborist	Crown Tree Consultancy	08000 14 13 30 0203 797 7449 Info@crowntrees.co.uk	Liaising with LPA Tree Officer over all arboricultural matters. Initial inspection and signing off of tree protection barriers including ground protection measures. Monthly site visits and inspections. Oversight of excavation for basement down to 1.2m in Restricted Zones. Reporting to the local authority following site inspections and any variation or incidents.
Local Authority	London Borough of Camden	Rav Curry Rav.Curry@camden.gov.uk 0207 974 3770	Receipt of reports from the appointed arborist. Liaising with the appointed arborist to agree suitability of tree protection measures and any variations. Enforcement. Advice and assistance with the discharge of planning conditions relating to trees.
Additional Contact	Insert Details	Insert Details	Insert Details
Additional Contact	Insert Details	Insert Details	Insert Details

Restrictions in Specific Zones

Restricted Activity Zone A

Within this zone trees roots are likely to be present where access will be required to facilitate construction. The following restrictions shall apply:

- No vehicles or plant machinery shall park or operate unless a suitable load spreading surface is in place. The load spreading surface shall be installed and/or maintained as specified under the heading ***Ground Protection Measures***. This shall remain in place throughout the entire demolition and construction phase or until any new permanent hard surfacing is installed. Any pedestrian activity other than very occasional shall also require a suitable load spreading surface.
- Removal of existing structures such as, walls, steps and hard surfaces (where applicable) shall be undertaken using hand tools or a mechanical excavator operating from outside the Restricted Activity Zone and carefully marshalled by the project arborist.
- No excavation shall occur beneath any existing hard surfacing and its sub-base or beneath the foundations of any structure such as wall, steps or patio.
- No further excavation shall occur in this zone without consulting the project arborist and obtaining approval from the local authority.
- Existing ground levels shall be retained undisturbed or raised by no more than 150mm. Ground levels may only be raised using granular topsoil (not rich in clay) or where new surfacing is proposed.
- No new permanent or temporary structures shall be erected other than those shown on the planning application documents unless approved by the local authority.
- Underground services shall not be installed in this area without prior consultation with the project arborist and a methodology agreed and approved by the local authority.
- If roots are encountered in excess of 25mm diameter, they shall be retained wherever possible and protected with damp sacking during times that they are unearthed. Any roots in excess of 10mm that need to be severed shall be pruned with secateurs.
- Storage of materials and spoil shall be avoided unless it has been agreed with the project arborist that the ground protection measures are adequate to ensure no soil compaction or contamination occurs. All hazardous materials (including non-essential cement products) shall be forbidden.
- No fires shall be permitted.

When installing the new pedestrian surface over the Root Protection Area of T3 and T9, the following additional restrictions shall apply:

- Excavation shall be limited to 250mm.
- Excavation shall be undertaken using hand tools only.
- If significant rooting activity is encountered, the finished surface shall be raised to accommodate them.
- Any edging structure used shall be installed without excavation below this depth.
- Any sub-base used shall not contain any fines (finely crushed aggregate material).
- Paviours shall be used and dry jointed (i.e. no mortar joints) to permit infiltration of rainwater through to the ground beneath.

Restricted Activity Zone B

In this zone foundations are to be installed over the Root Protection Area of T3. In order to minimise the impact on roots it is proposed to utilise the Hand-Dig Method. The following restrictions shall apply:

- Hand tools shall be used during the excavation to a depth of 600mm. Below this depth a carefully marshalled mechanical excavator may be used.
- The excavation shall not extend more than 200mm beyond the footprint of the proposed building walls in the direction of the trees.
- If roots in excess of 25mm diameter are encountered close to the edge of the excavation, they shall be retained wherever possible and protected with damp sacking during times that they are unearthed. Any roots that need to be severed shall be pruned with secateurs.

General Restrictions - Throughout the Site

Preparatory Works

No demolition, removal of surfaces, or soil stripping shall commence until the protective fencing and ground protection measures are installed to the satisfaction of the local authority.

Fires

No fires shall be permitted beneath any tree canopy or within 5m of any tree stem, branch or foliage. No fires shall be permitted within any Construction Exclusion Zone or Restricted Activity Zone. No fires shall be permitted in the vicinity of any exposed tree roots.

Canopy Protection

In order to protect tree canopies the following restrictions shall apply throughout the site:

- No machinery in excess of 2m shall pass beneath the canopy of any tree without being carefully marshalled in order to ensure that no branches are damaged.
- If materials require installation or delivery beneath tree canopies, this shall be done without the use of overhead cranes.
- If materials are to be installed or delivered close to tree canopies (but not beneath them) and a crane is required, they shall be carefully marshalled in order to ensure that branches are not accidentally damaged.

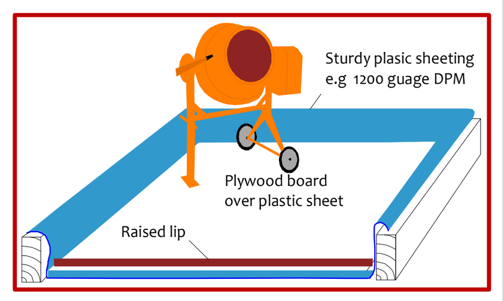
Storage of Spoil and Materials

Storage of materials and spoil shall be avoided in any Construction Exclusion Zones and Restricted Activity Zones unless it has been agreed with the project arborist that the ground protection measures are adequate to ensure no soil compaction or contamination occurs. All hazardous materials (including non-essential cement products) shall be forbidden.

General Restrictions - Throughout the Site Continued

Hazardous Materials

Any mixing of cement based materials shall take place outside the Construction Exclusion Zones and Restricted Activity Zones. Where cement is to be mixed at considerable distances from trees and water run-off cannot enter Root Protection Areas, then no further special measures are required. Otherwise, provision shall be made to ensure that the mixing area is contained so that no water run-off enters the Root Protection Area of any trees (see diagram for example). Mixers and barrows shall be cleaned within this area.



All other chemicals hazardous to tree health, including petrol and diesel, shall be stored in suitable containers as specified by current COSHH Regulations, and kept away from Root Protection Areas.

Underground Services

No underground services (including soak-aways) shall be located in any part of the Construction Exclusion Zones or Restricted Activity Zones unless done so in a manner detailed in a specific Method Statement and approved by the local authority.

Site Hoarding

If site hoarding shall be installed over the Root Protection Area of any tree, the following restrictions shall apply:

- Ground levels shall be maintained as existing.
- Post holes shall not exceed 300mm x 300mm.
- No post hole shall be excavated within 1.5m of any tree stem.
- Post holes shall be excavated using hand tools or by a post-hole auger attached to plant machinery sited outside of Root Protection Areas.
- Roots in excess of 25mm shall be retained wherever possible.
- Roots in excess of 10mm shall be pruned with sharp secateurs.
- Pruning shall be minimal and only undertaken where absolutely necessary to facilitate the site hoarding. It shall be undertaken by a reputable tree surgeon working to BS 3998 (2010).

Site hoarding may be installed in place of the specified tree protection measures subject to the approval of the local authority with regard to its location and specification.

Siting of Cabins

Cabins shall be located outside of Construction Exclusion Zones and Restricted Activity Zones unless agreed otherwise by the project arborist. Where this is being considered, the project arborist shall be consulted and specific tree protection measures agreed. The following general restrictions will apply:

- All services to and from site cabins shall be installed above ground through any Root Protection Areas.
- No excavation shall occur within Root Protection Areas to enable cabins to be installed.
- The cabins shall be founded on a suitable load spreading surface.

Lighting, Bollards, CCTV and associated Cables

If any of the above are to be installed close to tree canopies or within Root Protection Areas of retained trees; installation methods shall be detailed in a specific Method Statement and approved by the local authority. Consideration should be given to the following:

- Pruning of branches to enable sufficient clearance for light and views. Branches should be removed to the branch collar as per British Standard 3998 (2010).
- Post holes must be excavated by hand or using an appropriate sized auger. No other form of mechanical excavation may be used.
- Wherever possible, cables should be routed in a direction directly away from the tree stem rather than tangentially across the rooting zone. The location of all such cables shall be determined after consultation with the project arborist and approval by the local authority.

Use of Heavy Plant

All machinery operatives are to be made aware of any Construction Exclusion Zones and Restricted Activity Zones that apply to this site.

All machinery operatives are to respect these zones and ensure that no damage occurs to trees due to the careless use of machinery.

Mechanical excavators should have tracks rather than wheels to help spread their load. They should be carefully marshalled when working close to tree canopies.

Scaffolding

If scaffolding is required in areas containing ground protection measures, the protective boards shall need to remain in-situ and be strengthened and stabilised to bear the weight of scaffold poles.

Prior to the installation of any scaffolding within 0.5m of any tree branches, the project arborist shall be consulted to specify any pruning works that may be required.

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Tree Consultancy
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Site Monitoring Schedule

Inspection	Site Attendees	Comments
Pre- Start Desk-top To occur prior to any works taking place on the site.	N/A.	Project Manager and Site manager to study this Method Statement & contact the Project Arborist to agree all protection measures.
Pre-Start Meeting After tree works completed & tree protection barriers / ground protection measures installed. Prior to any other activity, inc. demolition & soil stripping.	Site manager, project arborist. Tree Officer invited.	Tree protection fencing locations & specification checked. Ground protection measures checked. Contractors to be inducted to all relevant aspects of the Arboricultural Method Statement. Responsibilities checked and acknowledged. Adherence to the Arboricultural Method Statement to be discussed and agreed. Report on findings to be sent to the local authority tree officer (see accompanying reporting template)
Monthly Inspection and Reporting To occur once per calendar month throughout the entirety of the project until the local authority agree that tree protection measures may be removed	Site manager and project arborist.*	Tree protection fencing locations & specification checked. Ground protection measures checked. Past month, present and future month – activities and adherence to Arboricultural Method Statement discussed and checked. Report on findings to be sent to the local authority tree officer within 5 working days.
Post-Construction Meeting Post external construction activity but prior to removal of fencing & landscaping operations.	Site manager, project arborist. Tree Officer invited.	Retained trees inspected. Ground conditions assessed and mitigation measures agreed where appropriate. Further landscaping operations and restrictions to be agreed.

* Where agreed with the L.A. it may be acceptable to supply photographs of the fencing to avoid the necessity for a site visit.

Tree Data Schedule

Reference (G = Group, H = Hedge)	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)	Crown Spread (m) N	W	E	S	Notes	Recommendations (Independent of any development proposals)	Priority	Inspect Freq (yrs)	Vigour	Physiological Condition	Structural Condition	Amenity Value	Life Expectancy (yrs)	Retention Category
T1	Mature **Horse Chestnut** Aesculus hippocastanum.	15	1.5	70	6	6	6	6	Position: Situated on third party land. Form: Multi-stemmed at 4m with a balanced crown. History: Previously reduced. **Defects: No significant defects observed.** Other: Limited inspection, dimensions estimated.	No action required.	n/a	3	Moderate	Good	Good	High	40+	A
T2	Early-Mature **Sycamore** Acer pseudoplatanus.	14	4	40	6	6	6	6	Position: Situated on third party land. Form: Multi-stemmed at 3m with a balanced crown. History: No evidence of significant pruning. **Defects: No significant defects observed.** Other: Limited inspection, dimensions estimated.	No action required.	n/a	3	Moderate	Good	Fair	Moderate	40+	B
T3	Early-Mature **Lime** Tilia sp.	14	4	60	4	5	4	5	Position: Situated on third party land. Form: Twin-stemmed at 0.5m with a slightly unbalanced crown. History: One stem topped at 5m. **Defects: Minor deadwood to lower crown.** Other: Limited inspection, dimensions estimated.	No action required.	n/a	3	Moderate	Good	Fair	Low	40+	C
T4	Young **Cherry Laurel** Prunus laurocerasus.	3.5	0.5	8	2	1	1	1	Position: Situated within the rear garden. Form: Single stemmed with a slight lean and a slightly unbalanced crown. History: No evidence of significant pruning. **Defects: No significant defects observed.**	No action required.	n/a	3	Moderate	Good	Good	Low	40+	C
T5	Semi-Mature **Dead Tree**	9	7	32	0.5	2	2	3	Position: Situated within the rear garden. Form: Single stemmed with a slight lean and a slightly unbalanced crown. History: No evidence of significant pruning. **Defects: Dead tree.** Other: Vegetation prevented detailed inspection.	Remove.	Moderate	N/A	Dead	Dead	Dead	Dead	Dead	U
T6	Young **Sycamore** Acer pseudoplatanus.	7	3	13	1	1	2.5	1	Position: Situated on third party land. Form: Single stemmed with a slight lean and an unbalanced crown. History: No evidence of significant pruning. **Defects: No significant defects observed.** Other: Poor specimen. Limited inspection, dimensions estimated.	No action required.	n/a	3	Moderate	Fair	Fair	Low	40+	C
T7	Early-Mature **Sycamore** Acer pseudoplatanus.	12	4	45	4	4	4	4	Position: Situated on third party land. Form: Multi-stemmed at 3.5m with a balanced crown. History: Previously topped at 3.5m. **Defects: No significant defects observed.** Other: Limited inspection, dimensions estimated.	No action required.	n/a	3	Moderate	Good	Fair	Low	40+	C
T8	Early-Mature **Ash** Fraxinus excelsior.	12	4	50	4	3	3	3	Position: Situated on third party land. Form: Multi-stemmed at 6m with a slightly unbalanced crown. History: Previously reduced heavily. **Defects: No significant defects observed.** Other: Potential for Ash Die Back. Limited inspection, dimensions estimated.	No action required.	n/a	3	Moderate	Good	Fair	Low	40+	C
T9	Young **Plum** Prunus sp.	4	0.5	9	0.5	2	2	3	Position: Adjacent eastern boundary. Form: Multi-stemmed at ground level with an unbalanced crown. History: No evidence of significant pruning. **Defects: No significant defects observed.**	No action required.	n/a	3	Moderate	Good	Good	Low	40+	C

Tree Protection Plan

CROWN Arboricultural Consultants 01422 316660

BS 5837 Root Protection Area (radius = 12xstem diameter)

Root Protection Area needing amendment due to site conditions, e.g. presence of existing road or building.

Root Protection Area having been amended to account for for site conditions

T1 = Tree No 1 G2 = Group No 2 H3 = Hedge No 3

Tree Retention Categories (Stems & canopies shown)

- Category A tree – Trees of high quality with an estimated life expectancy of 40+ years. Usually large trees with significant presence or smaller trees with excellent form. Retention of these trees is highly desirable.
- Category B tree – Trees of moderate quality with a life expectancy of 20+ years. Usually maturing trees, or younger trees with good form. Retention of these trees is desirable though less than Category A trees
- Category C tree – Unremarkable trees of low quality and merit. Individual specimens are not considered to be a material planning consideration.
- Category U tree – Trees unsuitable for retention due to their very poor condition.

Drawing No:	CCL 10933 / TPP Rev: 1
Title:	Tree Protection Plan (Existing Layout with Proposals Overlaid)
Site:	19 Belsize Square NW3 4HT
Scale:	1:200
Paper Size:	A1