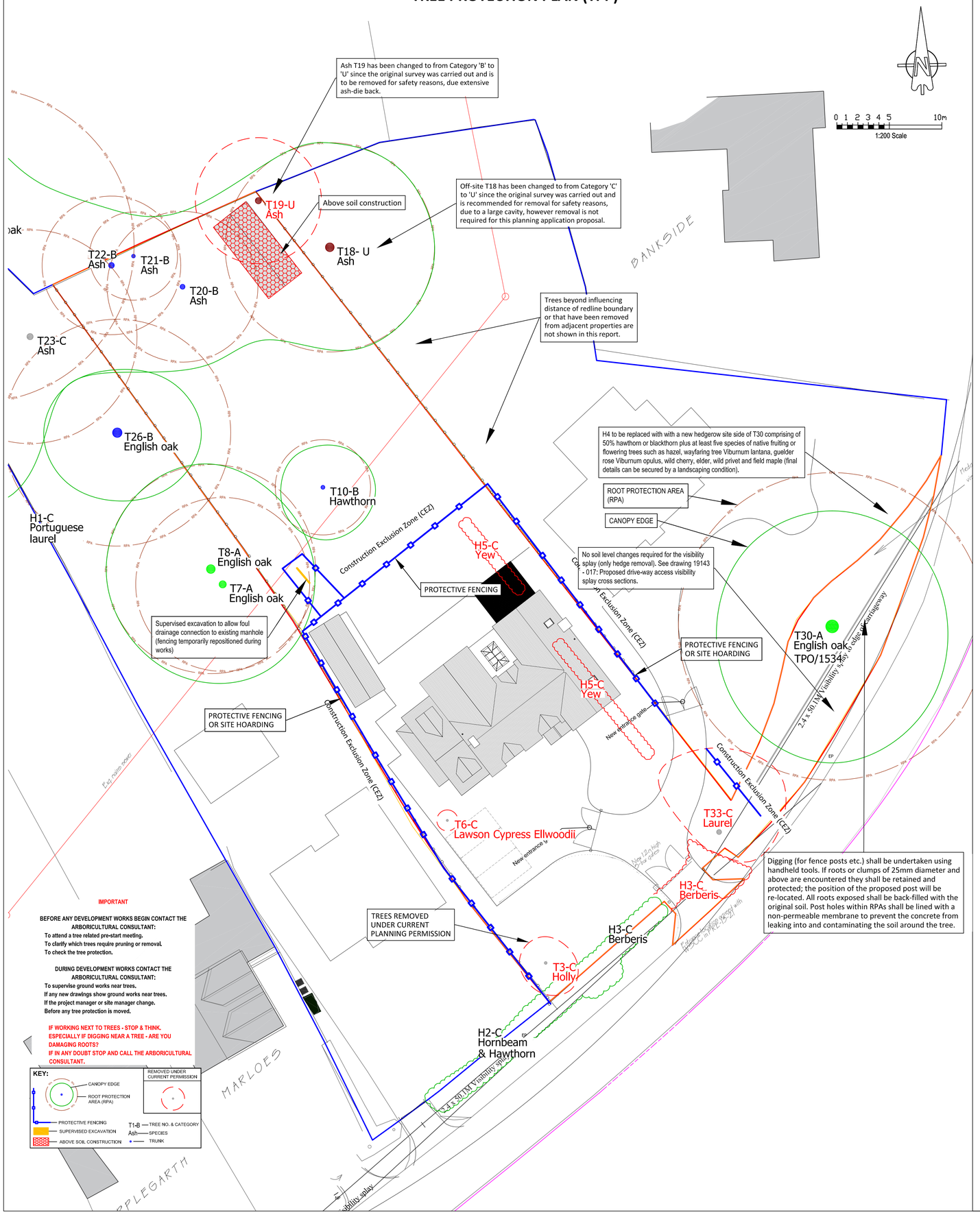
TREE PROTECTION PLAN (TPP)



IMPORTANT

BEFORE ANY DEVELOPMENT WORKS BEGIN CONTACT THE ARBORICULTURAL CONSULTANT:
- To attend a tree related pre-start meeting.
- To clarify which trees require pruning or removal.
- To check the tree protection.

DURING DEVELOPMENT WORKS CONTACT THE ARBORICULTURAL CONSULTANT:
- To supervise ground works near trees.
- If any new drawings show ground works near trees.
- If the project manager or site manager change.
- Before any tree protection is moved.

IF WORKING NEXT TO TREES - STOP & THINK. ESPECIALLY IF DIGGING NEAR A TREE - ARE YOU DAMAGING ROOTS?
IF IN ANY DOUBT STOP AND CALL THE ARBORICULTURAL CONSULTANT.

KEY:
- CANOPY EDGE
- ROOT PROTECTION AREA (RPA)
- REMOVED UNDER CURRENT PERMISSION
- PROTECTIVE FENCING
- SUPERVISED EXCAVATION
- ABOVE SOIL CONSTRUCTION
- T1-B — TREE NO. & CATEGORY
- Ash — SPECIES
- TRUNK

ARBORICULTURAL METHOD STATEMENT (AMS)

ARBORICULTURAL METHOD STATEMENT

This report provides the methodology for the implementation of any aspect of development that is within the root protection area or has the potential to result in loss of or damage to a tree.

PLANNING

The project manager will appoint an arboricultural consultant to oversee tree protection details and sensitive works close to trees.

The site manager must bring the details of this method statement to the attention of all relevant parties. If there is any confusion on the identification of trees or specifications within this report contact must be made with the appointed arboricultural consultant for clarification.

The project or site manager will immediately inform the arboricultural consultant if at any time the site manager, the fencing contractor or the groundwork contractor(s) are replaced, so that the arboricultural consultant can meet with the relevant person and make clear the requirements of arboricultural method statement.

Any new or revised drawings which might result in works within the RPAs or crown spreads of trees are to be sent to the arboricultural consultant so that he can give appropriate advice; any such works must not be carried out until the arboricultural consultant has seen and commented on the drawings as further approval from the Local Planning Authority might be required.

SEQUENCE OF WORKS

The following actions shall be undertaken, in the order specified in the below. Unless otherwise agreed with the Local Planning Authority.

1. Pre-start meeting
2. Remove trees
3. Install protective fencing
4. Start development works
5. Install fencing within RPA of T30 & undertake supervised excavation within RPAs of T7 and T8 for the foul drainage connection & construct garden room within RPAs of T18 & T20
6. Complete development works
7. Remove protective fencing

PRE-START MEETING

Before any site clearance or construction works takes place the project manager will arrange a tree related pre-start site meeting to go over this report and any issues that could arise during works; the meeting shall be attended by the site manager, the fencing contractor, the groundwork contractor(s) and the arboricultural consultant, the project manager shall invite the Local Planning Authority (LPA) tree officer to attend.

At the meeting contact details shall be exchanged and the scheme of tree protection shall be discussed, so that all parties are clear on:

1. the specifications of the tree protection
2. the chronological sequence of events
3. any special requirements (such as fencing works within RPAs)
4. service and drainage routes
5. It may be the case that unforeseen changes arise from the meeting; which might need to be formally agreed by the Local Planning Authority before being implemented.

MONITORING AND SUPERVISION

Once the tree protection barriers have been installed, the arboricultural consultant will undertake a visit to inspect them.

If the tree protection measures comply with this report, the arboricultural consultant will 'sign off' the tree protection and will send a record of compliance to the project manager.

If the specifications or locations of these items does not comply with this report, the arboricultural consultant will inform the relevant party of what adjustments are required and if necessary will undertake a further visit to check that these have been carried out. Once compliance has been made this will be signed off (as per the previous paragraph).

Throughout the construction process the arboricultural consultant will undertake regular visits to monitor the condition of the trees and effectiveness of the protective measures; timings to be agreed at the pre-start meeting. This shall include a final visit (once works are complete) to check the condition of trees and soil next to trees and may lead to mitigation recommendations.

The arboricultural consultant shall be given at least three working days' notice of any supervision activity that requires attendance (see the sequence of works). The arboricultural consultant will make records of all monitoring and supervisory visits, and will send these to the project manager. In this way it can be shown that the planning conditions are being adhered to and will allow the Local Planning Authority to sign off the relevant planning conditions.

ROOT PROTECTION AREAs (RPAs)

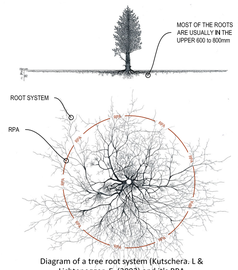


Diagram of a tree root system (Kutschera. L & Lichtenegger. E. (2002) and it's RPA

Most of the tree's critical rooting system is usually found within the upper 600 to 800mm of soil. The RPA is a layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure is treated as a priority. Great care is required when undertaking any ground works within RPAs.

CONSTRUCTION EXCLUSION ZONES

Construction Exclusion Zones shall protect the soil within RPAs as well as above ground tree parts. Once the physical tree protection is in situ, the arboricultural consultant will make a visit to inspect it. The tree protection must not be moved or altered without the permission of the approved arboricultural consultant. In the event that the physical tree protection is accidentally damaged or knocked out of position, those sections must be repaired or replaced as soon as practicably possible. Once all construction works are completed the arboricultural consultant will be notified before any physical tree protection is removed.

The physical tree protection (detailed in the following sections) shall form the edge of Construction Exclusion Zones (CEZs) and will restrict access into these areas. The tree protection and the CEZs must be considered as sacrosanct.

1. No construction activities will take place within the CEZs:
2. No personnel, plant or vehicles
3. No storage of equipment or materials
4. No clearance of existing vegetation
5. No changes to soil levels (including topsoil)
6. No excavation for foundations, drainage or service runs

Areas for the storage of materials shall be outside the CEZs. Oil, bitumen, diesel, and cement shall not be stored, mixed or discharged onto the ground within 10m of the trunks of any trees.

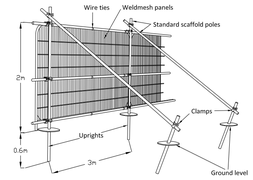
Extra precautions near trees are:

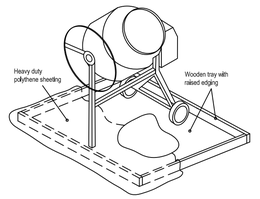
1. No notice boards, or power or telephone cables, shall be attached to any of the trees.
2. No fires to be lit within RPAs of trees to be retained or within 10m of the canopies of any trees to be retained (whichever is the greater).

In the event that the physical tree protection is accidentally damaged or knocked out of position, those sections must be repaired or replaced as soon as practicably possible. Once all construction works are completed the arboricultural consultant will be notified before any physical tree protection is removed.

PROTECTIVE FENCING - default specification

Protective fencing shall consist of a scaffold framework in accordance with *figure 2* of British Standard 5837 (2012); comprising a vertical and horizontal framework, well braced to resist impacts, with vertical tubes spaced at a maximum interval of 3m. Onto this, weldmesh panels shall be securely fixed with wire or scaffold clamps. Weldmesh panels on rubber or concrete feet are not resistant to impact and shall not be used.





EXCAVATION WITHIN RPAs of T7 and T8

The first 800mm of soil excavation for the allow the proposed foul drainage to link in with existing drainage within the Root Protection Areas (RPAs) for T7 and T8 shall be carried out carefully using hand held tools, under direct supervision of the arboricultural consultant. Below 800mm can be undertaken using an excavator which must stand either or suitable ground protection or outside of RPAs.
All roots; shall be pruned back to the face of the excavation, making a clean cut with a suitable sharp tool (e.g. bypass secateurs or handsaw).

GARDEN ROOM WITHIN RPAs of T18 & T20

Where the floor slab for the garden room is to be formed within the RPAs of T18 to T20, it shall bear on existing ground level above an impermeable membrane (to prevent leaching of concrete into the soil below). There shall be no soil excavation within the RPAs of trees.

LANDSCAPING, FENCING & REINSTATEMENT

All protective barriers must remain in place until the construction activity is finished and there is no realistic risk of damage to the protected soil surfaces or trees.

Removal of any existing hard surfacing within RPAs of trees shall be carried out with care using either hand held tools or a toothless bucket on a tracked excavator (e.g. mini-digger). Taking care to go no deeper than the existing hard-standing and sub-base (not disturbing the soil and any roots below) or striking parts of the tree(s). If a tracked excavator is used it shall stand outside of the RPAs of trees or on suitable ground protection. The Arboricultural consultant shall be contacted for advice before any such works proceed as the works might need to be supervised.

Final fencing, soft landscaping and reinstatement shall only be undertaken after all the protective fencing and ground protection has been removed. It is important to note that great care is needed by all the contractors to avoid damage to the trees.

No plant shall enter or be used within RPAs. Heavy machinary (e.g. tracked excavators with digger buckets) shall not be used for re-grading of soil. Heavy mechanical cultivation such as ploughing or rotavation must not occur within RPAs. Soil compaction shall be avoided around existing vegetation, including trees, and in areas where new planting or seeding is proposed. Any cultivation operations within RPAs must be undertaken carefully by hand in order to minimize damage to the tree, particularly the roots. There shall be no changes to soil levels within the RPAs of trees.

Digging (for fence posts etc.) shall be undertaken using handheld tools. If roots or clumps of 25mm diameter and above are encountered they shall be retained and protected; the position of the proposed post will be re-located. All roots exposed shall be back-filled with the original soil. Post holes within RPAs shall be lined with a non-permeable membrane to prevent the concrete from leaking into and contaminating the soil around the tree.

After the removal of the tree protection and final landscaping works the arboricultural consultant shall make an assessment of the condition of the trees.

It may be the case that regardless of the protective measures that soil compaction has occurred in the vicinity of existing trees. Potential remedial works may include sub-soil aeration using compressed air, and the addition of other materials, preferably of a bulky, organic nature (but excluding peat), to improve structure or other de-compaction measures such as forking, spiking, soil augering and tilthed radial trenching.

EXAMPLE OF TREE PROTECTION SIGNAGE to be attached to every other panel of fencing

TREE PROTECTION AREA KEEP OUT!

TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS (TOWN & COUNTRY PLANNING ACT 1990). **CONTRAVENTION** OF TREE PROTECTION MAY LEAD TO A **STOP NOTICE & CRIMINAL PROSECUTION**

THE FOLLOWING **MUST** BE OBSERVED BY ALL PERSONS:

- THE PROTECTIVE FENCING MUST NOT BE REMOVED
- NO PERSON SHALL ENTER THE PROTECTED AREA
- NO MACHINE OR PLANT SHALL ENTER THE PROTECTED AREA
- NO MATERIALS SHALL BE STORED IN THE PROTECTED AREA
- NO SPOIL SHALL BE DEPOSITED IN THE PROTECTED AREA
- NO EXCAVATION SHALL OCCUR IN THE PROTECTED AREA

ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY

ARBORICULTURAL IMPACTS ASSESSMENT

All the tree works below, except for the garden room ground works within the RPAs of T18 & T20 and the removal of T19, were approved under planning consent DC/21/2211: Demolition of existing dwelling and garage and erection of a replacement detached dwelling with new vehicular access, attached garage and associated car parking.
The proposed garden room shall be constructed to allow the retention of the trees.
There are no design changes contained within this S73 proposal that will result in any further impact to trees or hedges.

TREES TO BE REMOVED = x 4

TREE NO.	SPECIES	CATEGORY	REASON
T3	Holly	'C'	Space for new dwelling (for this application it instead to allow working space for demolition)
T6	Cypress	'C'	Space for new dwelling
T19	Ash	'U'	Extensive ash-back disease; to be removed for safety reasons
T33	Laurel	'C'	Visibility splays for new driveway entrance

HEDGES TO BE REMOVED = x 1 partial 2 x full

TREE NO.	SPECIES	CATEGORY	REASON
H3	Berberis	'C'	Partial removal for new driveway entrance & prune for visibility splay
H4	Holly and Hazel	'C'	Removal for visibility splay sight lines (remove and replant site side of T30)
H5	Yew	'C'	Removal for building and soakaway

TREES TO BE PRUNED = NONE

HEDGES TO BE PRUNED = NONE

TREES WITH GROUND WORKS WITHIN RPAs = x 5

TREE NO.	SPECIES	WORKS	MITIGATION
T30	Oak	Fencing	Post holes for the fence to be carried out with care to avoid tree roots and lined with a non-permeable membrane to prevent the concrete from leaking into and contaminating the soil around the tree.
T7 & T8	Oak	Foul drainage	Initial 800mm depth of dig within RPAs to be undertaken using handheld tools so that any roots found can be cut cleanly (instead of being shredded with an excavator).
T18 & T20	Ash	Garden room	No dig raft foundation; concrete slab bearing onto existing ground. It is anticipated that the garden room will need a ground bearing 150mm reinforced slab.

T18: 32m² RPA incursion - RPA 311.7m² = 10.2% RPA incursion
T20: 7.3m² RPA incursion - RPA 161.9m² = 4.5% RPA incursion

Treeline Services Ltd.

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Site Address:	Oakfield, Cox Green, Rudgwick, Horsham, RH12 3DD
Report title:	Arboricultural Report
Drawing Title:	Tree Protection Plan & Method Statement
Drawing Number:	TPP 04 Rev B
Based on:	Proposed Site Plan
Date: 21.06.24	Drawn by: JN — Paper Size: A1