

BS5837:2012 -Trees in relation to design, demolition and construction. Arboricultural matters in relation to trees at The Woolcomber, Hinckley.

Prepared by: East Midlands Tree Surveys Ltd.

Date: 19/05/2026

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1. Instructions

This report was commissioned by Anish Keshwara with instruction to carry out an inspection of trees located at the above address in line with *BS5837:2012 Trees in relation to design, demolition and construction - Recommendations*.

The objectives of this report are as follows:

1. To make an assessment of the trees' condition and identify any faults.
2. To provide Tree Constraints along with recommendations in line with BS5837:2012.
3. To provide an Arb Impact Assessment with tree protection measures and an Arb Method Statement in line with BS5837:2012.

2. Information supplied

EMTS were supplied with the following documents.

Title	Format	Provider
Topo chs25-248-01	DWG	AK

Our plans are based on the above DWG files which were imported into our mapping software for revision.

3. Introduction

This document has been prepared to fulfil the requirements for the proposal in accordance with the Department for Communities and Local Government guidance on information requirements and validation and is set out in compliance with British Standard 5837 Trees in relation to design, demolition and construction recommendations 2012.

The initial tree survey is considered to be compliant with BS5837:2012.

All trees considered likely to be affected by the proposal were surveyed and the details are given in Appendix 1 Table.

A topographical survey was provided which showed the position of the trees on site. It should be noted however that topographical surveys are not always comprehensive and sometimes it is considered appropriate to record details of trees and landscape features omitted from or beyond the scope of the plan. If this circumstance occurs, the location of the individual tree or landscape feature is estimated.

A copy of the proposed layout has been provided which comprises:

- Retention of the existing building structure
- Change of use of ground floor to flexible retail use (Class E)
- Conversion of first floor to residential use and extension to form storage area
- Modest first floor extension
- Provision of 4 self-contained flats



The tree numbers referred to in this report are the same as shown on the tree survey schedule and plan.

Only those trees directly implicated by the proposed installation have been assessed.

Due to the low numbers of trees and accuracy of the topo, no tags were affixed.

This report addresses the arboricultural issues relating to the proposed development at the above site and identifies the arboricultural implications of the proposed development with a view to protecting the trees during the construction works by setting out the tree protection methods, construction techniques and working practices that are to be adopted on this site.

If all the guidelines and principles outlined in this report are not adhered to, as with all development sites, there is a risk that the construction activities will result in damage to and potentially the death of the retained trees. Damage to the trees will significantly increase the risk of their health declining and may increase the risk of their complete or partial failure.

The success of the recommendations set out in this report is dependent on the development adhering to the principles set out within, which are to be approved and enforced by the Local Planning Authority (LPA). If the recommendations contained within this document are acceptable to the LPA then it is suggested that they be controlled by standard planning conditions.

This report has been prepared to meet planning requirements and as such is not considered to be a condition survey, any obvious actionable defects will however be picked up as part of the assessment.

Due to potential changes in tree health, this report is valid for a period of 2 years from the above date.

It is generally agreed that the majority of tree roots, even for a mature tree, are found in the top 90cm of the soil and are vulnerable to sudden changes in the rooting environment. These roots absorb moisture and nutrients needed for growth and contrary to popular belief, mature trees do not have a large deep taproot that obtains moisture from great depth.

An ideal soil for root growth is about 50% pore space (in urban areas this is often significantly reduced). These pores, the spaces between soil particles, are filled with water and air. Construction activity compacts the soil and can dramatically reduce the amount of pore space. This not only inhibits root growth and penetration but also decreases oxygen in the soil that is essential to the growth and function of the roots.

Any damage to the rooting environment can upset the balance between the crown and roots established by a tree over many years, and this may be detrimental to the health status or may compromise the stability and structural integrity of the tree. It should be noted that healthy trees will usually withstand a loss of a proportion of their root system.

The two main possibilities for injury to trees during and following the construction process are from direct and indirect damage.



Direct damage can be defined as injury resulting from physical contact including contact with machinery or fire and excavation of the rooting area.

Indirect damage can be defined as injury from activities that take place near the tree such as level changes, compaction of the soil or contamination by chemical spillage in the proximity of the root plate.

Light tree surgery such as crown lifting and/or the provision of high-quality tree protection measures coupled with suitably supervised and implemented construction methods can reduce the risk of damage to retained trees.

The soil type was not assessed in detail and was referenced only through information obtained from the Soilscales website which indicates slightly acid loamy and clayey soils with impeded drainage.

It is advised therefore that a Structural Engineer is consulted with regards to new footings.

4. Planning Policy Context

National and Local Planning Policy

4.1 National Planning Policy Framework (NPPF) Dec 2024 reflects the Government's vision for a planning system that puts beautiful, environmentally sustainable, and life-enhancing places at its heart. The NPPF recognises that the natural environment is an essential component of the health and wellbeing of society, and in achieving well designed places.

4.2 Paragraph 136: trees make an important contribution to the character and quality of urban environments and can also help mitigate and adapt to climate change. Planning policies and decisions should ensure that new streets are tree lined, that opportunities are taken to incorporate trees elsewhere in developments, that appropriate measures are in place to secure long – term maintenance of newly planted trees, and that existing trees are retained wherever possible.

4.3 Paragraph 159 a): advises that new development should be planned for in ways that avoid increased vulnerability to the range of impacts arising from climate change. When new development is brought forward in areas which are vulnerable, care should be taken to ensure that risks can be managed through suitable adaption measures, including through the planning of green infrastructure.

4.4 Paragraph 180 b): Planning policies and decisions should contribute to and enhance the natural and local environment by recognizing the intrinsic character and beauty of the countryside, and the wider benefits from natural capital and ecosystem services – including the economic benefits of the best and most versatile agricultural land, and of trees and woodland.



4.5 Paragraph 186 a) and c): when determining planning applications, local planning authorities should apply the principles of avoidance, minimise, remediate or, as a last resort compensate for the harmful impacts of development on for example biodiversity, and irreplaceable habits (such as ancient woodland and ancient and veteran trees).

4.6 Growth for communities delivered by the planning system requires the careful consideration of our natural environment during the design and development process to achieve sustainable development and this report considers how the development complies with the NPPF and how it achieves sustainable development.

4.7 Local Planning Authorities are governed in their decision-making process by the principle of sustainable development.

5. Site description

The site consists of the existing public house that has been closed since Feb 2025.

To the front there is typical parking with associated access down the side to the rear pub garden which is a mix of hard standing and grass.

The only trees of notable size are along the SW boundary with a shrub hedge to the south and a single conifer.

6. Tree survey findings

The tree details can be found at Appendix 1.

The trees are all at best average specimens with no standout specimens.

No significant defects were noted.

7. Tree Constraints/Arboricultural Impact Assessment.

The Tree Constraints plan can be found at Appendix 2.

The Arb Impact Assessment plan can be found at Appendix 3.

Physical build footprint.

The building footprint remains largely unchanged, aside from the proposed warehouse extension to the rear of the existing structure.

In arboricultural terms, the proposed layout demonstrates that no trees will require removal

It is unlikely that there will be the need for pruning to facilitate the construction of the rear warehouse element, however the Project Site Manager is to assess current clearances particularly in relation to T6 in order to determine if lateral pruning is required to provide workspace.

If this the case, any such works will be approved by the LPA.



It is considered that any future growth can be readily managed through minor pruning operations, should these become necessary.

The shade pattern indicates some shading along the south-western boundary; however, the only proposed window on this elevation is to be obscure glazed, thereby limiting any adverse impact.

An “L”-shaped section of G1 will require removal to facilitate the proposed staff and cycle storage area. This will result in the loss of approximately 6m in a north–south direction and 6m in an east–west direction of G1. The removal of this section is considered to have a limited effect on the street scene and overall landscape value.

No changes are proposed to the surfacing along the south-western boundary within the Root Protection Areas (RPAs) of the retained trees. Some existing fencing and sheds within this area will, however, be removed.

Access to the rear of the site will be gained from the western-side car park following removal of the relevant sections of G1.

Tree protection measures/storage of materials

Heras fencing will be required and is covered in the next section.

In order to provide workspace for the construction of the warehouse, a 2m offset is suggested from the build footprint.

This will expose small sections of the RPAs of T3 and T7 that will need to be protected during the construction Phase by hiring in anti-compaction sheets, an example can be found at Appendix 7.

All materials will be stored on the existing carpark.

8. Arboricultural Method Statement & Tree Protection detail.

8.1 Sequenced Methods of Demolition, Construction and Tree Protection

With reference to relevant published guidance, the methodology of this statement follows a logical sequence essential to the efficacy of the protection measures. Reference may include: British Standard BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations; British Standard BS3998:2010 Tree Work. It is essential to the successful implementation of the principles set out in this document that effective supervision and enforcement are put in place from the outset.

8.2 Phase 1 - Undertake Arboricultural Works

Remove the sections of G1 identified in red on the AIA plan, approximately 6m on the western boundary and 6m on the southern boundary.

Tree work requires skilled operators to perform pruning tasks in order to maintain the health and safe useful life expectancy of the trees, it is strongly recommended that construction staff DO NOT carry out any tree works.

Additional to this, a legal Duty of Care requires that all works specified should be carried out by qualified arboricultural contractors who have been competency tested to



determine their suitability for such works in line with Health and Safety Executive guidelines. All works should be carried out in accordance with British Standard BS3998:2010 Recommendations for Tree Work.

Particular care needs to be addressed in dealing with legally protected species such as nesting birds and roosting bats which are protected under the Wildlife and Countryside Act 1981 (as amended) from intentional harm and killing and applies to roosting and hibernating bats and active bird nests. The protection of bird nests applies between mid-February to August inclusive.

8.1 Phase 2 - Tree protection measures.

The appointed Main Contractor will communicate to the appointed contractors and any subsequent subcontractors, the projected extents of the RPAs of the retained trees, having particular regard to those retained trees where anticipated landscaping incursions within their projected RPAs, are anticipated and/or protection measures are required.

Within site, the RPAs will be marked clearly on the ground, using a non-toxic line marking paint, the extents of the projected RPAs as per the survey data in Appendix 1 of the Tree Constraints Report.

The locations of the tree protection measures will thereafter be installed as per the Tree Protection Plan (TPP).

Hard copies of the TPP will be retained by the Project/Site Manager and used to help communicate this aspect.

The TPP can be found at Appendix 4.

The anti-compaction measures will then be put down as per the Tree Protection Plan, these will be laid on top of 4 inches of compressible material such as wood chip - the woodchip from the removed sections of G1 could be used.

The fence (blue lines) will be erected as per the distances on Plan, if any layout issues arise with regards to the 3m panel lengths, the runs will be set back further from the RPAs, not within.

The aim will be for as much of the grey RPAs shown on the TPP to be protected as possible by the mats, with the Heras fencing positioned at the edges of these mats.

The fencing shall remain in place throughout construction and be removed only after completion of all works.

The default specification as per figure 2 of BS 5837:2012 will be used - see Appendix 5, in order to minimise the risk of damage to roots.

Within the fenced zone, no materials or chemicals should be stored at any time, no fires should be lit, no pedestrian or vehicle traffic, and level changes within these areas should be kept to an absolute minimum. Every effort should be taken to protect a maximum possible area of the root system.



Clear notices are to be fixed to the outside of the fencing with words such as
'TREE PROTECTION AREA – NO ACCESS OR WORKING WITHIN THIS AREA'.

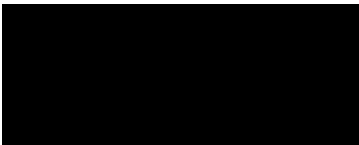
See Appendix 6. These notices shall be A3 in size, laminated and fixed to the fencing using suitable aids such as tie wires.

8.2 Mixing of concrete around trees. (cementitious, mortar, cement, slurry)

Washout wastewater is caustic and considered corrosive, with a pH over 12. Wet concrete is toxic to trees and for this reason the incorporation of protection (sheathing with impermeable membrane e.g. heavy grade polythene sheeting) is extremely important to prevent contact with exposed roots and limiting potential for harm.

It is important NOT to mix concrete within the vicinity of trees where there is the risk of contamination of the soil.

An arboriculturist should be consulted where required during the construction process to address any issues that might arise regarding tree retention, protection, and management. It is the responsibility of the site owner, manager, and main contractor to ensure that any tree protection or other relevant planning conditions, or TPO's are adhered to. A breach of a planning condition or TPO may result in enforcement action by the LA



19/05/2026

John Wilcockson – Director, East Midlands Tree Surveys LTD.

Tech Cert (Arbor A), NDF For



Appendix 1 - Tree Survey Data

BS5837 Report

Anish Keshwara
The Woolcomber, Hinckley



Retention Category	No. trees	Rem. Contrib.	No. trees
B	8	20+ Years	8
Total		8	

Ref.	Species	Full Structure	Measurements	Survey Notes	Retention Category	RPA	Condition	Recommendations
G1	Mixed species (Mixed species)	Group	Height (m): 5 Stem Diam(mm): 200 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 0 Life Stage: Semi Mature Rem. Contrib.: 20+ Years	Cherry Laurel, Blackthorn, Holly, Elder, Cotoneaster, Forsythia. Cherry Laurel and Cypress Offsite, not plotted on topo.	B1	Area: 133 sq m.	Physiological Cond: Fair Structural Cond: Fair Public Visual Amenity value: Low	No action required.
T001	Beech (Fagus sp.)	Tree	Height (m): 7 Stem Diam(mm): 350 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 3 Life Stage: Semi Mature Rem. Contrib.: 20+ Years	Offsite - Diameter estimated, unable to survey effectively due to access. Topped at current height. Co dominant stems at 1.8m. Trunk - old pruning wounds/stubs.	B1	Radius: 4.2m. Area: 55 sq m.	Physiological Cond: Fair Structural Cond: Fair Public Visual Amenity value: Low	No action required.
T002	Whitebeam (Aria edulis)	Tree	Height (m): 7 Stem Diam(mm): 400 Spread (m): 5N, 2E, 2S, 2W Crown Clearance (m): 3 Life Stage: Semi Mature Rem. Contrib.: 20+ Years	Offsite - Diameter estimated, unable to survey effectively due to access. Topped at current height. Co dominant stems at 1.8m. Trunk - old pruning wounds/stubs.	B1	Radius: 4.8m. Area: 72 sq m.	Physiological Cond: Fair Structural Cond: Fair Public Visual Amenity value: Low	No action required.
T003	Maple (Acer sp.)	Tree	Height (m): 13 Stem Diam(mm): 450 Spread (m): 4N, 4E, 3S, 4W Crown Clearance (m): 4 Life Stage: Semi Mature Rem. Contrib.: 20+ Years	Diameter estimated, unable to survey effectively due to vegetation. Part topped with reaction growth. Co dominant stems at 1.8m. Trunk - old pruning wounds/stubs. Trunk - ivy/climber	B1	Radius: 5.4m. Area: 92 sq m.	Physiological Cond: Fair Structural Cond: Fair Public Visual Amenity value: Low	No action required.
T004	Maple (Acer sp.)	Tree	Height (m): 7 Stem Diam(mm): 300 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 3 Life Stage: Semi Mature Rem. Contrib.: 20+ Years	Offsite - Diameter estimated, unable to survey effectively due to access. Topped at current height. Co dominant stems at 1.8m. Trunk - old pruning wounds/stubs.	B1	Radius: 3.6m. Area: 41 sq m.	Physiological Cond: Fair Structural Cond: Fair Public Visual Amenity value: Low	No action required.
T005	Maple (Acer sp.)	Tree	Height (m): 13 Stem Diam(mm): 180 Spread (m): 3N, 6E, 5S, 5W Crown Clearance (m): 4 Life Stage: Semi Mature Rem. Contrib.: 20+ Years	Unable to survey effectively due to vegetation. Part topped with reaction growth. Trunk - old pruning wounds/stubs. Trunk - ivy/climber	B1	Radius: 2.2m. Area: 15 sq m.	Physiological Cond: Fair Structural Cond: Fair Public Visual Amenity value: Low	No action required.

Ref.	Species	Full Structure	Measurements	Survey Notes	Retention Category	RPA	Condition	Recommendations
T006	Cherry (<i>Prunus sp. 'Cherry'</i>)	Tree 3 stems	Height (m): 10 3 stems (mm): 80, 80, 90 Spread (m): 1N, 3E, 3S, 3W Crown Clearance (m): 4 Life Stage: Semi Mature Rem. Contrib.: 20+ Years	Unable to survey effectively due to vegetation. Part topped with reaction growth. Trunk - old pruning wounds/stubs. Trunk - ivy/climber Suppressed. Trunk - codominant stems at 1m.	B1	Radius: 1.7m. Area: 9 sq m.	Physiological Cond: Fair Structural Cond: Fair Public Visual Amenity value: Low	No action required.
T007	Cypress (<i>Cupressus sp.</i>)	Tree	Height (m): 14 Stem Diam(mm): 400 Spread (m): 2.5N, 2.5E, 2.5S, 2.5W Crown Clearance (m): 1.5 Life Stage: Semi Mature Rem. Contrib.: 20+ Years	No significant defects	B1	Radius: 4.8m. Area: 72 sq m.	Physiological Cond: Fair Structural Cond: Fair Public Visual Amenity value: Low	No action required.

Appendix 2. Tree Constraints Plan



KEY BS 5837:2012 retention categories

Grade A Trees

Grade B Trees

Grade C Trees

Grade U Trees



Extent of Root Protection Area



Extent of Canopy



Extent of Canopy - Groups



Trees to be Felled and Replaced



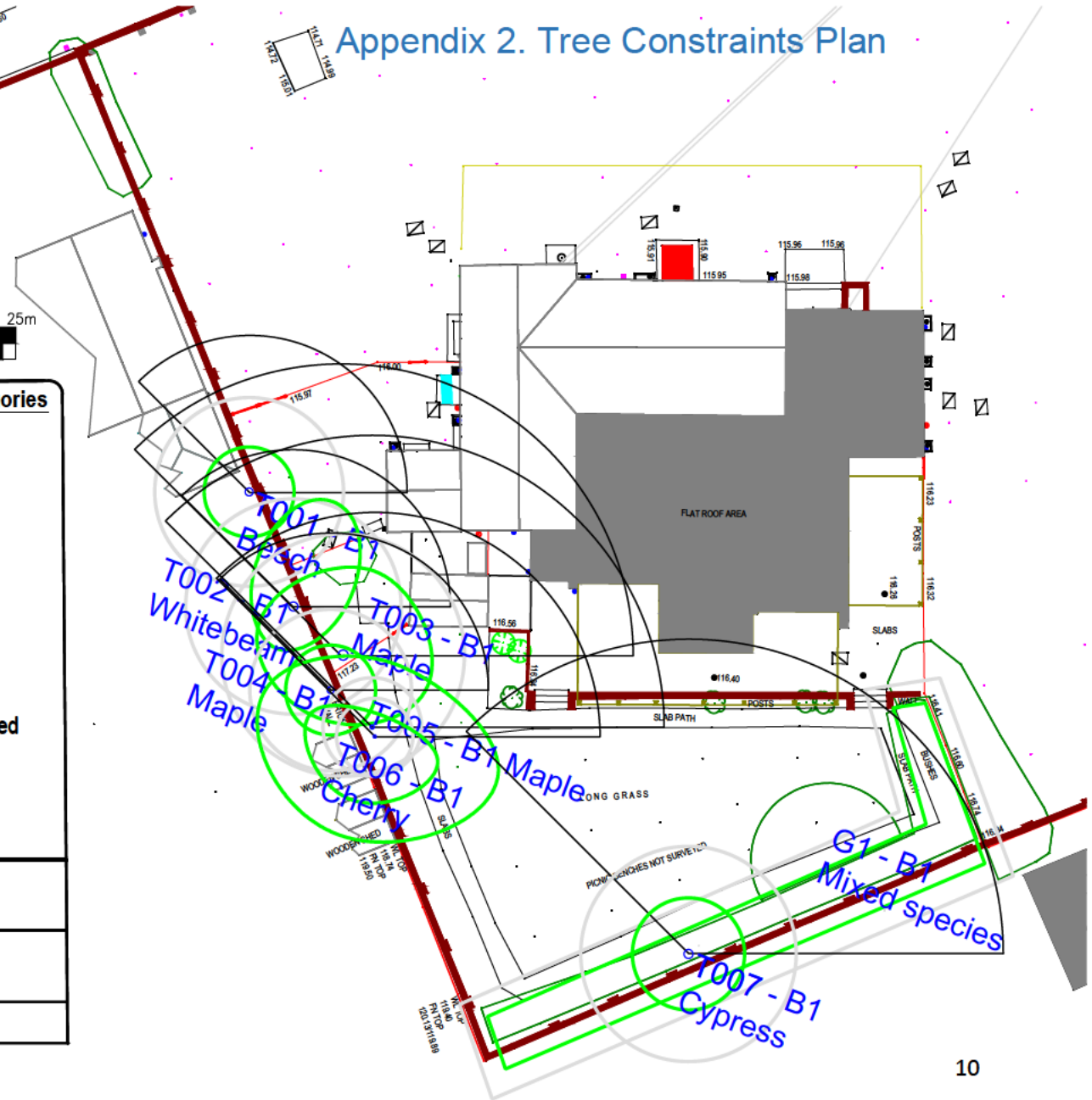
Shade pattern

Tree Constraints Plan:

The Woolcomber Hinckley

Anish Keshwara

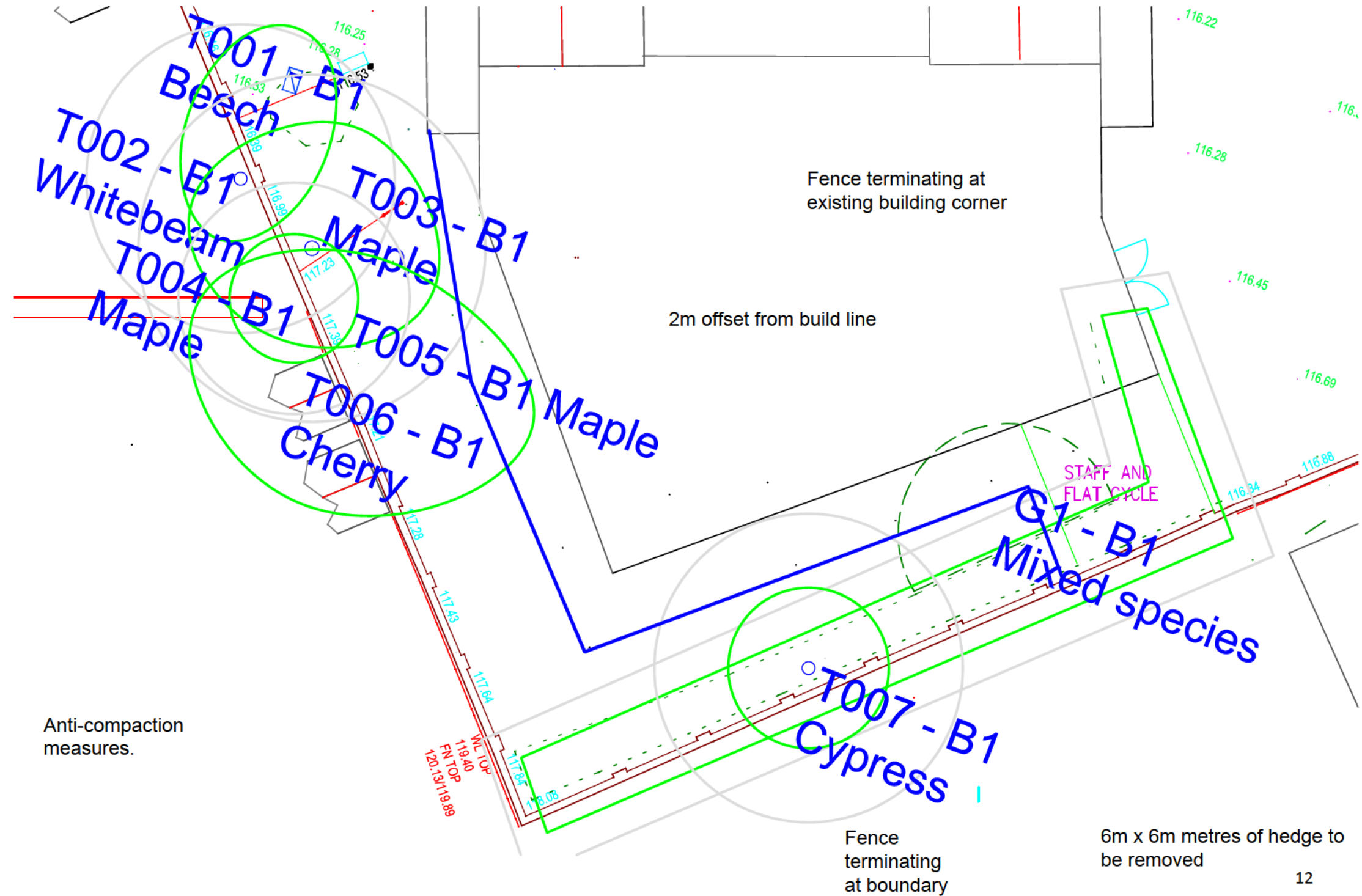
19/05/26



UP 500MM

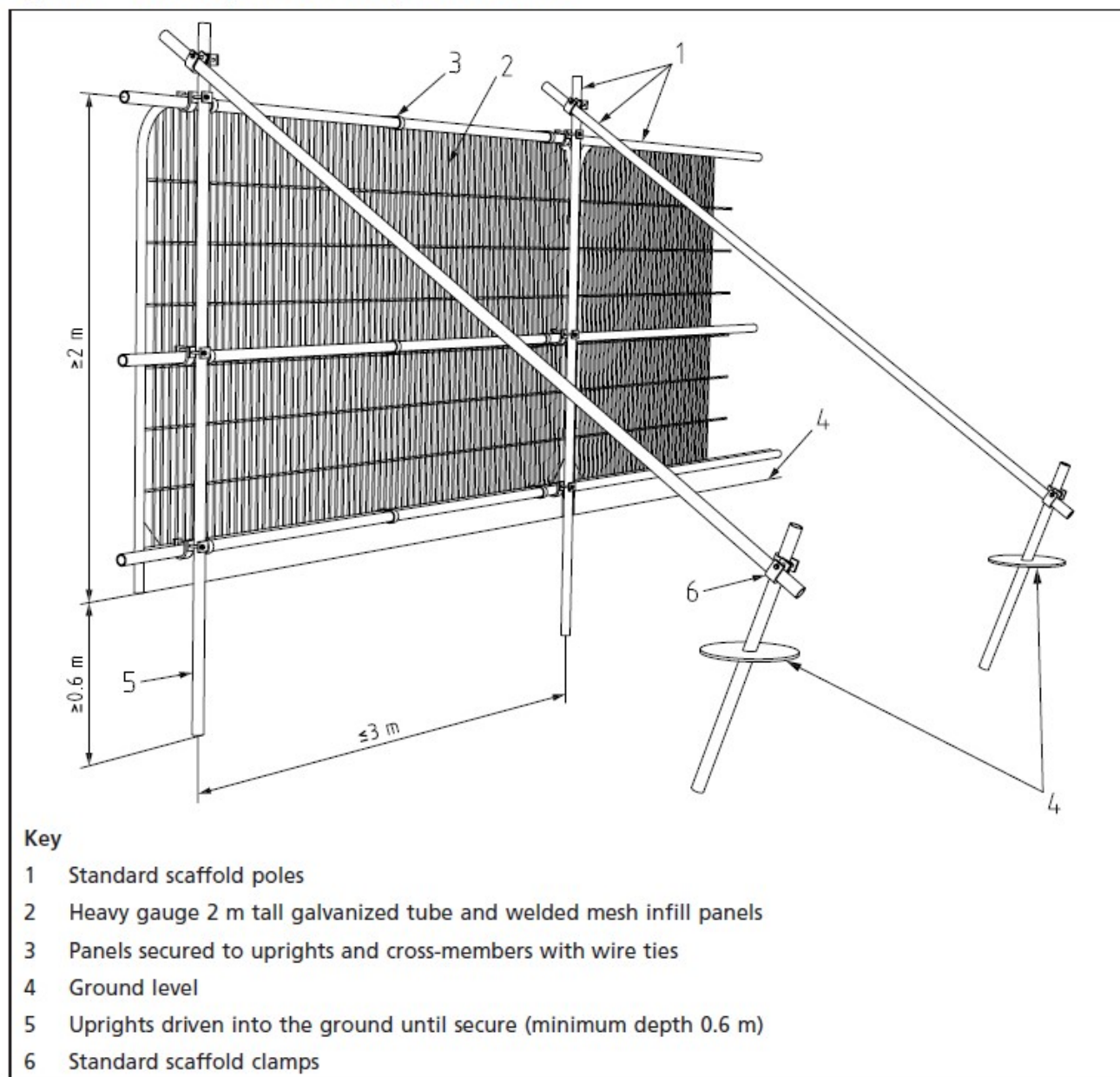


Appendix 4. Tree Protection Plan



Appendix 5. Fence specification.

Figure 2 Default specification for protective barrier



Appendix 6. Signs.



**PROTECTIVE FENCING. THIS
FENCING MUST BE
MAINTAINED IN ACCORDANCE
WITH THE APPROVED PLANS
AND DRAWINGS FOR THIS
DEVELOPMENT.**



**TREE PROTECTION AREA
KEEP OUT !**

**(TOWN & COUNTRY PLANNING ACT 1990)
TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY
PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A
TREE PRESERVATION ORDER.
CONTRAVENTION OF A TREE PRESERVATION ORDER MAY
LEAD TO CRIMINAL PROSECUTION**

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

Temporary Ground Protection: A temporary ground protection system will be placed on the existing access way and on the uncovered land outside the barriers inside the RPAs where work is to take place from. The protection system should be constructed of strong wood, plastic or metal plates that must lock together to form a temporary surface as described in photograph 2. The temporary ground protection material must be laid on top of an approximately 30-50mm deep layer of woodchip (photograph 3) to absorb the weight of passing people and equipment. The purpose of the temporary protective surface is that it can be traversed over without the plates moving. The temporary ground protection should be retained for the entirety of the site clearance, demolition and building works and not removed until they are complete.



Photograph 2
(©Ground Guards)



Photograph 3
(©Ground Guards)

Appendix 8. Tree survey

The trees were assessed objectively using 'Visual Tree Assessment' (VTA) techniques from the ground. VTA is a methodology, employed by arboriculturists, to evaluate the structural integrity of a tree, relying on observation of a tree's biomechanical and physiological features; this is the method generally adopted and is appropriate in this instance. The survey includes an individual tree number listed sequentially, tree Species in both its common and botanical name, its height, stem diameter measured at 1.5m from ground level, spread of the radius of the crown by cardinal points, height of the crown above ground level, age classification its general condition and any general conditions structural or biological defects noted during the survey. An estimate of the remaining safe life expectancy (SLE) and the category as defined in BS 5837:2012 Recommendations cascade chart for tree quality assessment.

The root protection area (RPA) will be calculated from the stem diameter and this will identify the area which will require special protection during the works.

Trees on the site have been divided into one of four categories (based on the cascade chart for tree quality assessment). These are classed as A, B, C or U (Section 4 of BS 5837) within the table in Appendix 1, Table 2. This gives an indication as to the tree's importance in relation to the site, the local landscape and, also, the value and quality of the existing trees on site. This assists informal decisions concerning which trees should be removed or retained should development occur. For a tree to qualify under any given category it should fall within the scope of that category's definition (see below).

Categories A, B and C cover trees that should be a material consideration in the development process, each with three further sub-categories (i, ii, iii) which are intended to reflect arboricultural, landscape and cultural (nature conservation) values. Category U trees may have no significant landscape value, but it is not presumed that there is any overriding need to remove these unless stated otherwise in the description and recommendations. They are for this reason not considered as being significant within the planning process. In assigning trees to the A, B or C categories, and the presence of any serious disease or tree-related hazard is taken into account. If the disease is considered fatal and/or irremediable, or likely to require sanitation for the protection of other trees it may be categorised as U with a recommendation for work or even removal, even if they are otherwise of considerable value.

Category (A): Trees whose retention is most desirable and are of high quality and value. These trees are considered to be in such a condition as to be able to make a lasting contribution (a minimum of 40 years) and may comprise:

- (i) Trees which are particularly good examples of their species especially rare or unusual, or essential components of groups or of formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue);
- (ii) Trees, or groups of trees which provide a definite screening or softening effect to the locality in relation to views into or out of the site, or those of particular



visual importance (e.g. avenues or other arboricultural features assessed as groups);

(iii) Trees or groups of significant conservation, historical, commemorative or other value (e.g. Veteran or wood-pasture trees).

Category (B): Trees whose retention is considered desirable and are of moderate quality and value. These trees are considered to be in such a condition as to make a significant contribution (a minimum of 20 years) and may comprise:

(i) Trees that might be included in the high category but because of their numbers or slightly impaired condition (e.g. presence of remediable defects including unsympathetic past management and minor storm damage), are downgraded in favour of the best individuals;

(ii) Trees present in numbers such that they form distinct landscape features and attract a higher collective rating than they would as individuals. Individually these trees are not essential components of formal or semi-formal arboricultural features, or trees situated mainly internally to the site and have little visual impact beyond the site;

(iii) Trees with clearly identifiable conservation or other cultural benefits.

Category (C): Trees that could be retained and are considered to be of low quality and value. These trees are in an adequate condition to remain until new planting could be established (a minimum of ten years) or are young trees with a stem diameter below 150 mm and may comprise:

(i) Trees not qualifying in higher categories;

(ii) Trees present in groups or woodlands, but without this conferring on them significantly greater landscape value and or trees offering low or only temporary screening benefit;

(iii) Trees with very limited conservation or other cultural benefits.

Category (U): Trees that are considered to have no significant landscape value, but it is not presumed that there is any overriding need to remove these unless stated otherwise in the description and recommendations. They are for this reason not considered as being significant within the planning process. These trees will be in such a condition that any existing value would be lost within 10 years and which should in the current context be ignored or removed for reasons of sound arboricultural management. Trees within this category are:

(i) Trees that have a serious irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees;

(ii) Trees that are dead or are showing signs of significant, immediate or irreversible overall decline;

(iii) Trees infected with pathogens of significance to the health and or/safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality.



All U Category (poor quality) trees should generally be removed for reasons of sound arboricultural practice or health & safety, irrespective of any development proposals, unless they offer particular conservation value to the site, in which case this will be highlighted in the survey schedule along with appropriate recommendations.

As regards the C category trees, it may not always be possible or even desirable to retain low quality trees within the context of a proposed development, unless in such a location that they do not represent a significant constraint on the design brief. Young trees, and those with a stem diameter of less than 150mm, will normally be placed in the C category, unless it is considered that they are of especially good form or are of a species that is particularly rare, in which case they may be upgraded.

All A & B Category trees (high & moderate quality) will under normal circumstances be retained on development sites, and should ideally influence and inform the conceptual design, site layout, and in some cases the specific construction methods to be used – The root protection area and/or crown spread of these trees will generally form a construction exclusion zone, although under certain circumstances it may be possible to build or operate within these areas providing that appropriate measures and specifications have been formally agreed between the local planning authority, the consulting arborist and the developer/client.

This report is valid for two years from the date of site inspection. The condition of trees can change following severe weather conditions, the effects of diseases and pests, and other abiotic factors.

Appendix 9. Legal Constraints

Where Local Planning Authorities can assess trees as beneficial to the wider community in terms of their amenity value, they may be protected by a Tree Preservation Order (TPO).

In certain areas classified as Conservation Areas, all trees with a stem diameter of 75mm (measured at 1.5m above ground) are protected by Conservation Area legislation. The LPA must be given notice of any work intended so they can visit the site and then either protect the tree(s) with a TPO or allow the works to go ahead. Their decision must be made within a six-week period. If no decision is made within the six-week period, the work may be carried out, providing it is done within a two-year period.

If trees protected by a TPO or within conservation areas are cut-down, topped, lopped, uprooted or wilfully damaged or destroyed, the owner of the tree(s) and the contractor responsible for the work can both be legally prosecuted. The current maximum fine is £20,000 per tree at the Magistrates Court or unlimited fine at the Crown Court.

Trees that are dead or dangerous are exempt from legislation. It is common good practice to notify the LPA of intention to carry out work to trees that fall into these categories, preferably with some notice (e.g. one working week).



A leaflet produced by the DTLR (Protected Trees), covers the issues raised by this legislation.

Any works prescriptions for protected trees can be dealt with by way of inclusion into a Planning Application for development purposes; this avoids the need to make a separate tree application.

A check with the Local Planning Authority has not been carried out.

Statutory wildlife obligations: The Wildlife and Countryside Act 1981 as amended by the Countryside and The Habitat Regulations 2012 and The Conservation of Habitats and Species Regulations 2017 provide statutory protection to birds, bats and other species that inhabit trees. All tree work operations are covered by these provisions and advice from an ecologist should be obtained before undertaking any works that might constitute an offence.

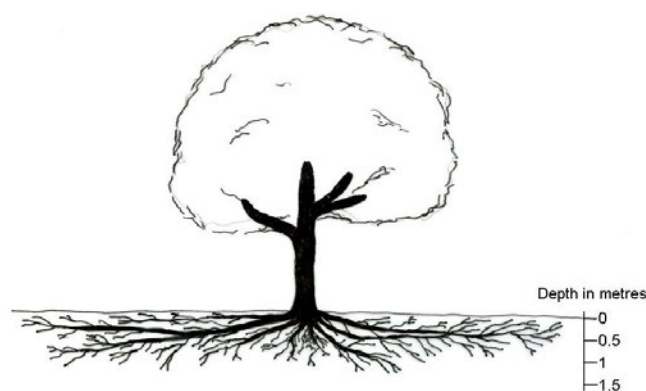
Appendix 10. Arboricultural considerations in relation to development.

Rooting structure

Rooting structure is a key issue when dealing with trees and development. To ensure the survival of trees the British Standard Institute has introduced the concept of a Root Protection Area (RPA). The RPA is an area surrounding a tree that contains sufficient rooting volume to ensure the tree's survival and is represented in square metres. (BS5837 2012 discusses the extent and form of a tree's root system.)

The following diagram represents the typical rooting pattern of a tree. Note that 90% of the tree's roots are usually located within the top 1m of soil and that roots may spread well beyond the canopy. Therefore, no works are allowed within the RPA. Even a small trench 0.5 metres deep to accommodate a cable or drain may lead to the loss of the tree. When work is proposed or is absolutely necessary within the RPAs of retained trees the proposals will only be considered if supported by an agreed robust and realistic Arboricultural Method Statement, following recommendations within BS 5837 2012.

Typical rooting structure of a tree



To successfully integrate trees into a development it will be necessary to allow enough space in the design to allow trees to mature and flourish and to agree protection measures during the entire construction phase. Trees should be considered at the earliest design stage to allow them to be successfully integrated into new development, a survey of trees on and adjacent to the site should be one of the first steps in the design process.

How can trees be damaged?

Compaction of the soil

When soil is compacted, the soil structure is damaged by removing the spaces between soil particles preventing the exchange of gases and uptake of nutrients by trees. The storage of materials, including bricks, soil, gravel and cement, and the movement of vehicles can cause compaction. One vehicle movement can cause sufficient compaction to damage a tree. Compacted ground may alter soil drainage, resulting in the ground becoming waterlogged. The storage of materials and the movement of vehicles within RPAs will only be permitted when it is shown to be absolutely necessary and supported by an agreed robust and realistic Arboricultural Method Statement.

Excavations

Excavations within the RPA are likely to cause root severance. This may lead to loss of vigor, reduced uptake of water and nutrients, allow access for decay organisms and may compromise the tree's stability. Under exceptional circumstances, where excavation may be justified, hand digging will be required and the presence of an arboricultural consultant to supervise the works will be required on site.

Ground level changes

Both reduction and raising of soil levels can be detrimental even if this is only by a few centimeters. Reducing ground levels may sever roots and can increase the drainage of a site thereby reducing water availability. Raising ground levels can cause compaction and suffocate roots. There will be a presumption against the changing of ground levels within RPAs. Changing of ground levels within RPAs will only be permitted when it is shown to be absolutely necessary and supported by an agreed robust and realistic Arboricultural Method Statement.

Impact damage

This can be caused by machinery and includes torn branches, and damage to bark and trunk. Damaged areas of trees can allow the entry of decay organisms and reduced vigour. There will be a presumption against the movement of machinery and equipment within RPAs. The movement of machinery and equipment will only be permitted when it is shown to be absolutely necessary and supported by an agreed robust and realistic Arboricultural Method Statement.

Soil contamination

This can be caused by the spillage of oil, fuel and chemicals, mixing cement or other materials. To prevent leaching through the soil where significant tree roots can be found,



all chemicals should be kept in a safe storage area downhill from trees at least 10m from the RPA. There will be a presumption against the storage of chemicals within 10m of the RPAs of retained trees and storage will only be permitted when it is shown to be absolutely necessary and supported by an agreed robust and realistic Arboricultural Method Statement.

Fires

Conducted and radiated heat as well as flames will damage trees resulting in the loss and damage to both major and fibrous roots, and damage to the trees vascular system under the bark even if the bark does not appear burnt. Keep fires a minimum of 10m from the outer crown spread of any retained trees or vegetation. If this clearance is not achievable, all waste must be disposed of off-site.

Appendix 11. Biosecurity advice

Please see the Forestry Commission's latest guidance in relation to biosecurity.

Biosecurity measures are a series of precautionary steps designed to reduce the risk of transmission of harmful organisms and must address 'movement pathways' for such organisms. In the context of the following guidance, good biosecurity practice refers to ways of working that minimise the risk of contamination and the spread of pests and invasive plants. Unless stated otherwise, the term "pest" should be taken to include all invertebrate, bacterial or fungal organisms that are harmful to trees. The term does not refer to other threats to trees such as deer or grey squirrels.

https://www.forestryresearch.gov.uk/documents/5498/FC_Biosecurity_Guidance_Y6HQJHZ.pdf

