



Arboricultural Impact Assessment and Tree Protection Report

Arboricultural Documentation for Planning Submission Netball Court Enhancements –
Hurstpierpoint College Prepared

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Section A: Tree Survey Schedule (BS 5837:2012)

Ref	Species (Latin)	Common Name	Height (m)	Stem Dia (mm)	Crown Spread (N/E/S/W) (m)	Height of 1st Branch (m)	Age Class	Phys. Condition	Struct. Condition	Cat.	RPA Radius (m)
T1	Quercus robur	English Oak	17	800	7 / 9 / 6 / 8	3.5	Mature	Good	Good	A2	9.6
T2	Betula pendula	Silver Birch	4.5	120	2 / 2 / 2 / 2	1.5	Young	Good	Good	C1	1.44
T3	Prunus sp.	Ornamental Cherry	4	180	2 / 2.5 / 2 / 2.5	1.8	Early-Mature	Fair	Fair	C1	2.16
T4	Carpinus betulus 'Fastigiata'	Upright Hornbeam	6.5	220	2 / 2 / 2 / 2	2.2	Semi-Mature	Good	Good	B1	2.64
T5–9	Carpinus betulus	Pleached Hornbeam	2.5	100	1.5 / 1.5 / 1.5 / 1.5	1.8	Young	Good	Good	C1	1.2
H1	Prunus laurocerasus	Laurel Hedge	1.2	-	0.6 wide	-	Established	Good	Good	C2	n/a

Section B: Arboricultural Impact Assessment

This section assesses the direct and indirect impacts of the proposed netball court works on nearby trees and hedge lines:

- **T1** – No direct impact. Construction occurs at a raised ground level (approx. +1.3m above tree base). No excavation is proposed within RPA.
- **T2** – 9.43m from the post line and below finished ground level. Posts will be installed into made-up ground, limiting disturbance. No excavation is proposed within RPA.

- **T3** – Located approx. 1.0m from the fence line. Protective fencing, ground protection and supervision required.
- **T4** – 12.35m from works. No RPA encroachment expected.
- **T5–9** – Form a hedgerow screen along the site edge. Protective fencing, ground protection and supervision required.
- **H1** – No anticipated adverse effects. Hedgerow is outside construction zone.

In summary, no trees are proposed for removal. Indirect impacts are low and manageable through mitigation.

Section C: Arboricultural Method Statement

The following methods shall be adopted to safeguard tree health during construction:

- Site induction to brief all operatives on tree protection zones
- Erection of protective fencing before any site operations begin
- Hand-digging and use of post support systems within RPA zones
- Installation of ground protection boards in constrained zones (e.g. T3)
- Regular supervision of high-risk activities
- Watering during prolonged dry spells

All protective measures shall remain in place until development completion.

Section D: Tree Protection Strategy

The strategy focuses on:

- Temporary Heras-type fencing at minimum RPA distance
- Ground protection over unsealed surfaces within RPAs
- Signage on fencing to deter access
- Site compound and storage zones located outside RPAs

Refer to Drawing 723 TPP01 for layout.

Section E: Tree Constraints and Planning Justification

The retained trees contribute to site character and local amenity. The proposed development has been sited and designed to:

- Avoid encroachment into RPAs

- Maintain existing canopy cover
- Preserve ecological and screening functions

Mitigation ensures all trees can be retained in a healthy condition post-development. No long-term adverse arboricultural impacts are foreseen.

Section F: BS 5837 Tree Categorisation and Root Protection Area (RPA) Guidance

Tree categorisation and RPA calculations have been undertaken in accordance with BS 5837:2012 'Trees in relation to design, demolition and construction – Recommendations.' The following principles have been applied:

Tree Categories:

- **U** – Trees unsuitable for retention (e.g. dead, dangerous or declining beyond recovery)
- **A** – High quality trees with a life expectancy of 40+ years
- **B** – Moderate quality trees with a life expectancy of 20+ years
- **C** – Low quality trees or young specimens with a life expectancy of at least 10 years

Root Protection Areas (RPA):

- The RPA is a layout design tool indicating the minimum area around a tree that should be left undisturbed.
- RPAs are calculated as a circle using a formula based on stem diameter (typically $12 \times \text{stem diameter}$).
- Adjustments to RPA shape may be made to accommodate site conditions or reflect root morphology.

This information has been prepared and verified by **Building Solutions Consultants Limited (BSC)** in accordance with BS 5837:2012.

Section G: Arboricultural Mitigation Measures

To minimise the risk of harm to retained trees and hedge during the proposed development, the following mitigation measures shall be implemented:

1. Pre-Commencement Tree Protection

- Install protective fencing (Heras-type) around RPAs of T3 and T5–9 before works commence.
- Where fencing is not practicable, install ground protection boards (e.g. plywood or cellular confinement mats) to prevent soil compaction.

2. Construction Methodology within RPAs

- All excavations for fence posts within 2m of any tree or hedge shall be hand-dug.
- Roots greater than 25mm in diameter shall not be cut. If encountered, repositioning of posts or alternate support methods (e.g. brackets) will be considered.

3. Supervision and Monitoring

- All excavation within RPAs shall be supervised by the site manager or competent person.
- Post-works inspection to confirm tree health and assess any root disturbance.

4. Watering and Aftercare

- Irrigation of trees T3 and T5–9 will be undertaken during dry spells to mitigate root disturbance.
- Any damage to retained trees or root zones shall be reported and remedial actions taken immediately.

5. Minimising Level Changes and Compaction

- In areas of made-up ground (e.g. adjacent to T1 and T2), ensure surface build-up is permeable and free-draining.
- No storage of materials, machinery, or spoil within RPAs.

6. General Site Conduct

- Brief site operatives on tree protection zones during induction.
- Display signage identifying tree protection zones.

Section H: Photographic Reference

Photographs of all trees and hedging referenced in this report (T1 to T9, H1) are available via the following virtual site record:

Matterport Virtual Twin:

<https://my.matterport.com/show/?m=jrQ3XKHKMZ9>

This provides a 360-degree photographic record of the site and all surveyed vegetation.

Section I: Drawing Reference

This report is supported by the accompanying Tree Protection Plan:

Drawing Ref: 723 TPP01 – Tree Protection Plan

Prepared in accordance with BS 5837:2012 to show RPAs, retained trees, protection fencing, and working zones.