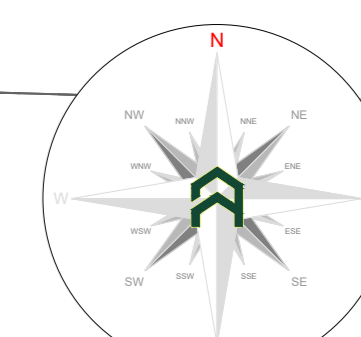
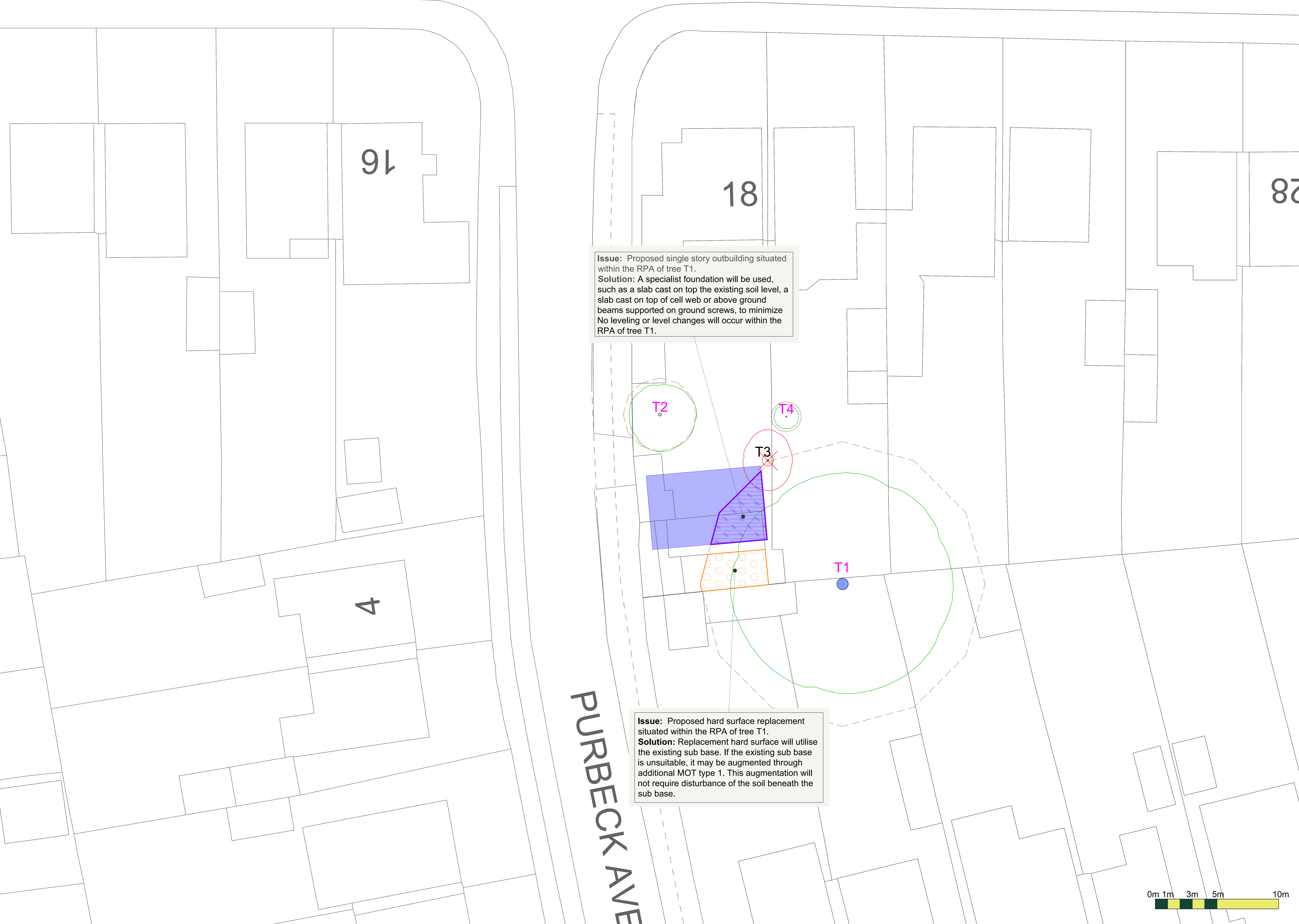


# MOTSPUR PARK



Indicative only



**Issue:** Proposed single story outbuilding situated within the RPA of tree T1.  
**Solution:** A specialist foundation will be used, such as a slab cast on top the existing soil level, a slab cast on top of cell web or above ground beams supported on ground screws, to minimize No leveling or level changes will occur within the RPA of tree T1.

**Issue:** Proposed hard surface replacement situated within the RPA of tree T1.  
**Solution:** Replacement hard surface will utilise the existing sub base. If the existing sub base is unsuitable, it may be augmented through additional MOT type 1. This augmentation will not require disturbance of the soil beneath the sub base.

Arboricultural Impacts	
Impacts	No. of trees
Trees to be removed	0 (0)
Grouped trees to be removed (Partial removal of groups)	0 (0)
Trees with proposed retention into RPA	1
Group 1 Hedgex with proposed retention into RPA	0
Trees that will require pruning	0
Group 1 Hedgex that will require pruning	0
Trees to be transplanted	0
Group 1 Hedgex to be transplanted	0

No.	Species	Proposed structure	Incursion
T1	Common Oak	Single story structure	RPA

Arboricultural Impacts - RPAs (Area)			
No.	Species	RPA (m <sup>2</sup> )	Incursion (%)
T1	Common Oak	369.7	18

Tree Work Schedule			
No.	Species	Works	Category
T3	Maple	Fell and remove stump	C1

All tree work is to be undertaken in accordance with British Standard BS3998:2010 Tree work - Recommendations.  
 Care is to be taken of the ground around retained trees to make sure that it does not become compacted as a result of tree surgery operations. No equipment or vehicles such as timber lorries, tractors, excavators or cranes shall be parked or driven beneath the crowns of any retained trees, to prevent subsequent compaction and root death.

**No. of individual trees to be removed**

U	A	B	C
0	0	0	1

**No. of groups / hedges to be removed**

U	A	B	C
0 (0)	0 (0)	0 (0)	0 (0)

U = Partial removal of groups

**Arboricultural Method Statement**

All tree work is to be undertaken in accordance with British Standard BS3998:2010 Tree work - Recommendations. Arboricultural Method Statement and Tree Protection Plan, for full details of all surveyed trees and how all aspects of the development may be implemented without detriment to retained trees.

**Foundations within RPAs**

The use of traditional strip foundations can result in excessive root loss and as such should be avoided.

Designs for foundations that would minimize the adverse impact upon trees should include particular attention to the existing levels, proposed finished levels and cross sectional details. Site specific and specialist advice should be sought from the project engineers and arboriculturist.

Root damage will be minimised by using one of the following options:

- A slab, formed on top of the existing soil level. The underside of the slab will be lined and sealed to prevent any leaching of the concrete into the soil.
- A slab, formed on top of a layer of multi-dimensional confinement system such as Celltop®.
- Ground screws, installed by a specialist contractor, supporting beams which can be cantilevered as necessary to avoid tree roots as discovered during the installation of the screws.

Where a slab for minor structures is to be formed within the RPA, it should bear on the existing ground level, and should not exceed an area greater than 20% of the existing unhardened ground.

Where ground screws are to be installed near to trees, the smallest practical pile diameter should be used, as this reduces the possibility of striking major tree roots, and reduces the size of the rig required to sink the piles. If a piling mat is required, this should conform to the parameters for ground loading. Use of the smallest practical piling rig is also important where piling within the search spread is proposed, as this can reduce the need for access facilitation pruning.

**Utility apparatus**

**Underground utility apparatus**

Mechanical trenching for the installation of underground apparatus and drainage sever any roots present and can change the local hydrology in a way that adversely affects the health of the tree. For this reason, particular care should be taken in the route and methods of installation of all underground apparatus. Wherever possible, apparatus should be routed outside of RPAs. Where this is not possible, it is preferable to keep apparatus together in common ducts, all inspection chambers should be sited outside of the RPAs.

Where underground apparatus is to pass within the RPAs, detailed plans showing the proposed route should be drawn up in conjunction with the project arboriculturist. In such cases trenchless insertion methods should be used with entry and retrieval pits being located outside of the RPAs. If this option is not feasible and providing roots can be retained, and protected excavations should be undertaken using hand held tools (air-spades, tanks, shovels) or a combination of trenchless and manual excavation (broken trench).

Any design and installation should be undertaken in accordance with the National Joint Utilities Guidelines (NUJG).

**Above-ground utility apparatus**

Above-ground apparatus including CCTV cameras and lighting) should be sited to avoid the need for detrimental tree pruning, as such the current and future crown size of the tree should be assessed.

Tree branches can be pruned back with care to provide space, though it is not appropriate for repetitive and significant tree work to bear initial design solution unless this is a suitable management outcome for the tree. Any pruning should be undertaken in accordance with BS3998:2010.

The information is compiled with British Standard BS3998:2010 Tree work - Recommendations in design, installation and construction - Recommendations, section 3.2 ground equipment for installation within RPAs.

Unit 3, Well House Barns, Chester, CH4 0DH  
 https://arbtech.co.uk, 01244 561170

**Project:**  
 18 Motspur Park,  
 New Malden,  
 Kingston Upon Thames,  
 KT3 6PL

**Client:**  
 Mr Khanh

**Drawing:**  
 Arboricultural Impact Assessment

**Based on:**  
 File name: 18 Motspur Park kt3 6pl.dwg  
 1-500

**Drawing No:** Arbtech AIA 01 **Rev:**

**Date:** March 2024 **Scale:** 1:100 @ A0 **Drawn:** CMW

Tree No.	Tree Category	Trunk	Category 'C' trees
T1	Category 'C' trees	Trunk	Category 'C' trees

**Key:**

Impacts	Retaining Site	Proposed Site
Trees to be removed	Retaining Site	Proposed Site

**Incursion Structures:**

Plant	Structure	Replacement
Plant	Structure	Replacement

0m 1m 3m 5m 10m