

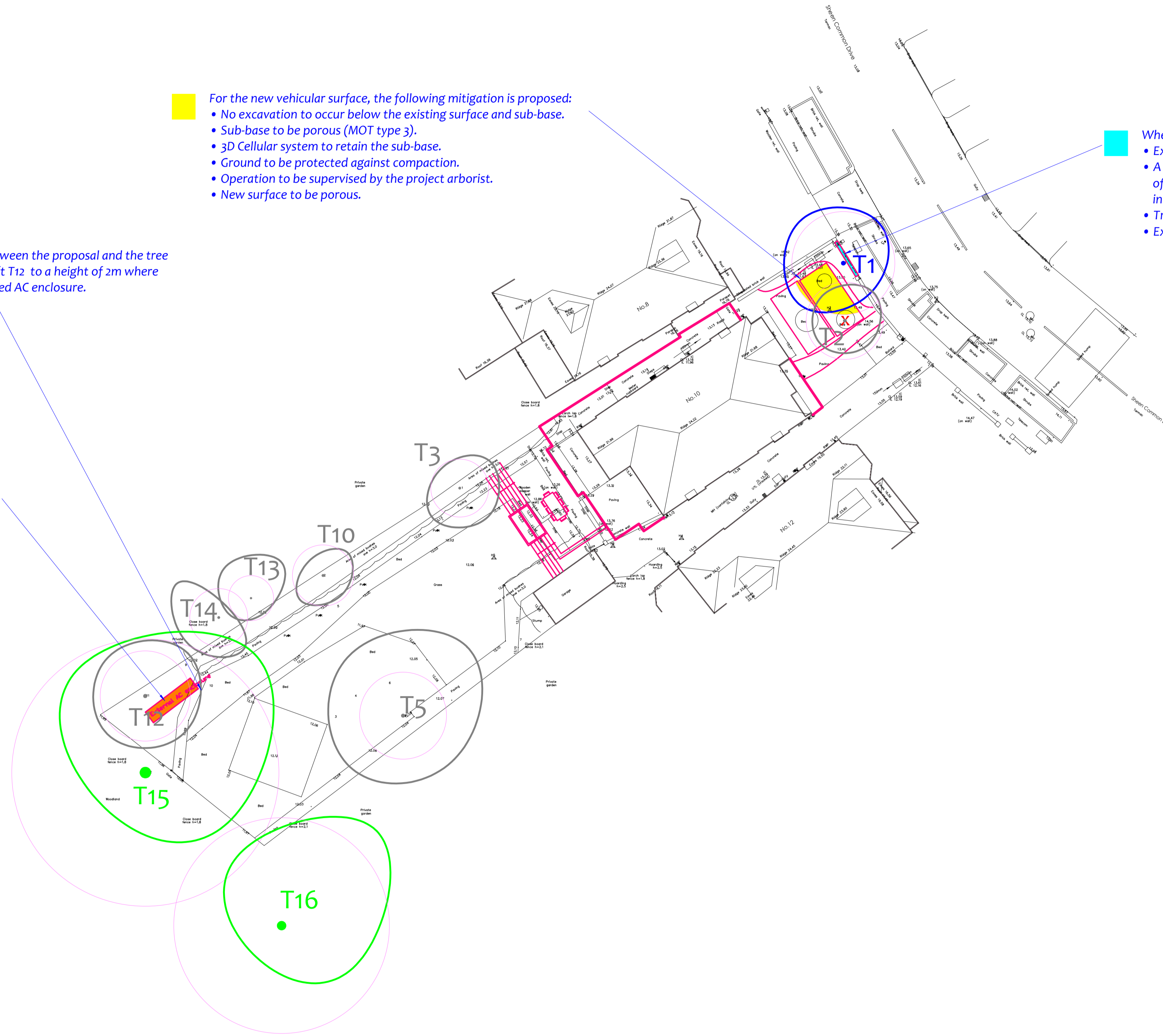
Proposed Layout (Red)

- For the new vehicular surface, the following mitigation is proposed:
  - No excavation to occur below the existing surface and sub-base.
  - Sub-base to be porous (MOT type 3).
  - 3D Cellular system to retain the sub-base.
  - Ground to be protected against compaction.
  - Operation to be supervised by the project arborist.
  - New surface to be porous.

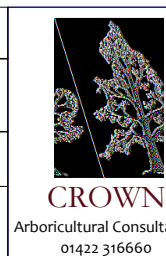
- When building the wall adjacent to T1, the following mitigation is proposed:
  - Excavation shall be undertaken using hand tools.
  - A watching brief is proposed during excavation, and if any roots in excess of 25mm are encountered, an arch or shallow raft (or beam) shall be incorporated into the foundations, enabling them to be retained.
  - Trial pits shall be excavated to determine the location of the piles.
  - Excavation is to be supervised by the project arborist.

To enable adequate clearance between the proposal and the tree canopy, it is proposed to crown lift T12 to a height of 2m where the canopy overhangs the proposed AC enclosure.

- For the AC enclosure, the following mitigation is proposed:
  - RC Raft foundation to be entirely above ground (turf or loose topsoil may be removed to a maximum depth of 100mm so long as no roots over 25mm are encountered).
  - Excavation is to be supervised by the project arborist.
  - Raft installed. This may be supported by hand-driven helical piles.
  - Trial pits to be excavated to a depth of 600mm to determine pile locations.
  - All roots over 25mm diameter to be retained intact and pile relocated.



Drawing No: CCL 11468 / IAP Rev: 1  
 Title: Impact Assessment Plan  
 Site: 10 Sheen Common Drive TW9 5RN  
 Scale: 1:300 Paper Size: A1



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

Status: Final - for submission

	B5 s537 Root Protection Area (radius = 1xstem 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 site conditions
T1 = Tree No 1	G2 = Group No 2 H3 = Hedge No 3

Tree to be removed to facilitate the proposal  
 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.

Tree Ref.	Species	Height (m)	Root Protection Area		
			Radius (m)	Square (m)	
T1	Silver Birch	13	3.8	46	6.8
T2	Magnolia	5	2.9	26	5.1
T3	Holly	4.5	2.2	15	3.8
T4	Apple	5	3.8	46	6.8
T5	Beech	14	3.2	33	5.7
T6	Apple	5	4.1	52	7.2
T7	Pear	7.5	2.5	20	4.5
T8	Holly	8.5	3.1	31	5.5
T9	Apple	3.54	1.9	12	3.4
T10	Holly	4.5	2.3	16	4.0
T11	Pear	10	1.4	7	2.6
T12	Yew	5.5	3.4	35	6.0
T13	Apple	6	1.7	9	3.0
T14	Apple	6	2.2	15	3.8
T15	Oak	24	10.0	312	17.7
T16	Oak	24	8.0	203	14.3