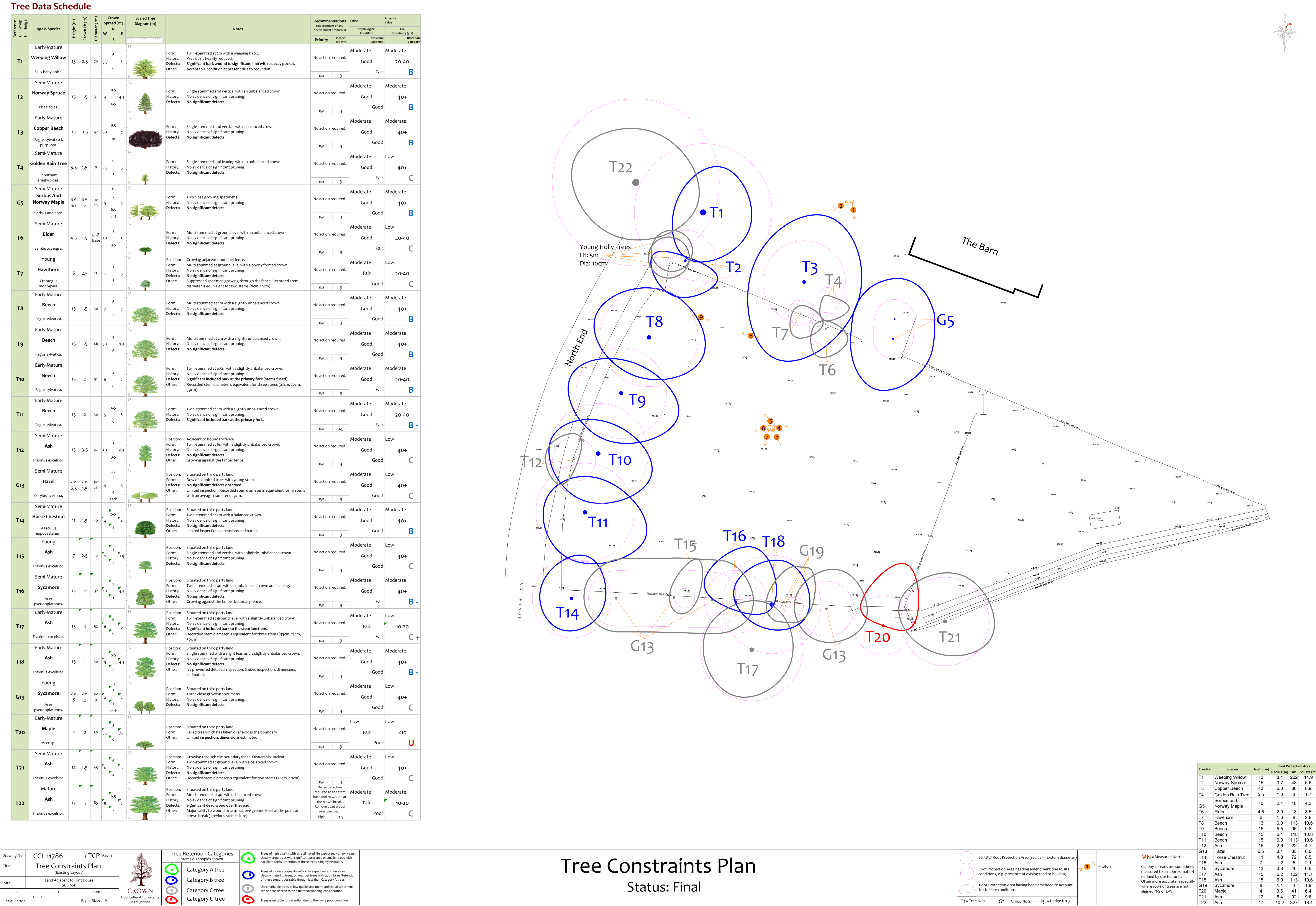
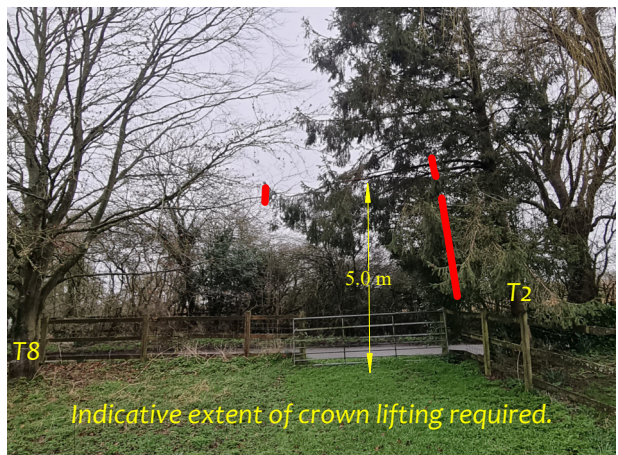
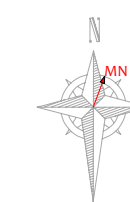






Clearance of 5m beneath the canopies of T2 and T8 will be required for construction vehicle access. Canopies should be neatly pruned to provide the required clearance to avoid any accidental damage to branches. Such pruning shall not have a significant impact on tree health.

The orange arrow suggests a suitable location for underground services to be installed outside of RPAs.

Two lowest southwestern facing branches of T3 will require pruning back to provide clearance over the proposed driveway. Such pruning shall not have a significant impact on the trees health or amenity value.



A portion of T6's RPA shall be affected by the proposed surface and its canopy requires pruning back towards the boundary fence to provide clearance for the installation of the garage. It is considered likely that the potential impact on this Elder is within tolerable limits. Hand tools only should be used for excavation in this area to a maximum depth of 150mm and a permeable surface installed.

Less than 8% of the RPA of T8 shall be affected by the proposed driveway. Such an incursion is considered to be relatively minor and is less than half of the maximum recommended limit of 20%, as per BS 5837. Furthermore, a permeable, resin-bound aggregate surface is proposed which shall ensure the roots are not starved of oxygen and rainwater.

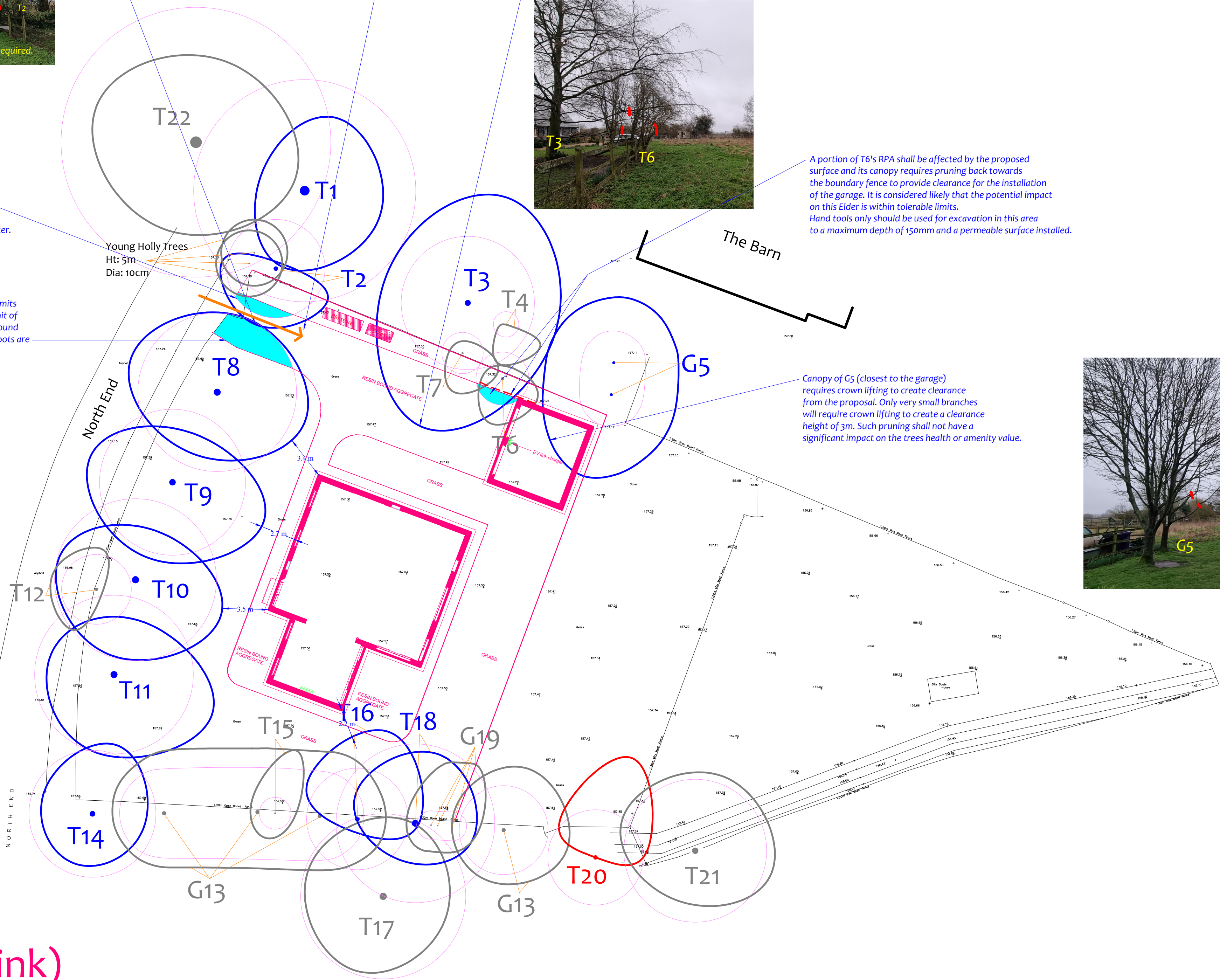
Less than 10% of the RPA of T8 shall be affected by the proposed driveway. Such an incursion is considered to be within tolerable limits and is less than half of the maximum recommended limit of 20%, as per BS 5837. Furthermore, a permeable, resin-bound aggregate surface is proposed which shall ensure the roots are not starved of oxygen and rainwater.

In order to ensure minimal impact on RPAs when installing the new surface, the following restrictions are proposed:
- Excavation depth limited to 150mm.
- Excavation supervised by the project arborist.
- 3D cellular confinement system installed to minimise soil compaction over the RPAs of T2 and T8.
- Permeable surface installed.

There is considered to be sufficient clearance between the tree canopies and the proposed dwelling, such that no facilitative pruning is deemed necessary.



Canopy of G5 (closest to the garage) requires crown lifting to create clearance from the proposal. Only very small branches will require crown lifting to create a clearance height of 3m. Such pruning shall not have a significant impact on the trees health or amenity value.



Proposed Layout (Pink)

Drawing No:	CCL 11786 / IAP Rev: 1
Title:	Impact Assessment Plan
Site:	Land Adjacent to Flint House SG8 9SD
Scale:	0 5 10m 1:2500
Paper Size:	A1



Tree Retention Categories	
Stems & canopies shown	
	Category A tree
	Category B tree
	Category C tree
	Category U 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.
	Trees of moderate quality with a life expectancy of 20+ years. Usually mature trees, or younger trees with good form. Retention of these trees is desirable though less than Category A trees.
	Unremarkable trees of low quality and merit. Individual specimens are not considered to be a material planning consideration.
	Trees unsuitable for retention due to their very poor condition.

Impact Assessment Plan

Status: Final - for submission

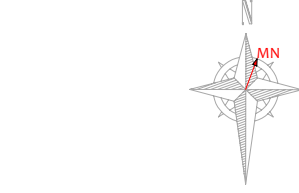
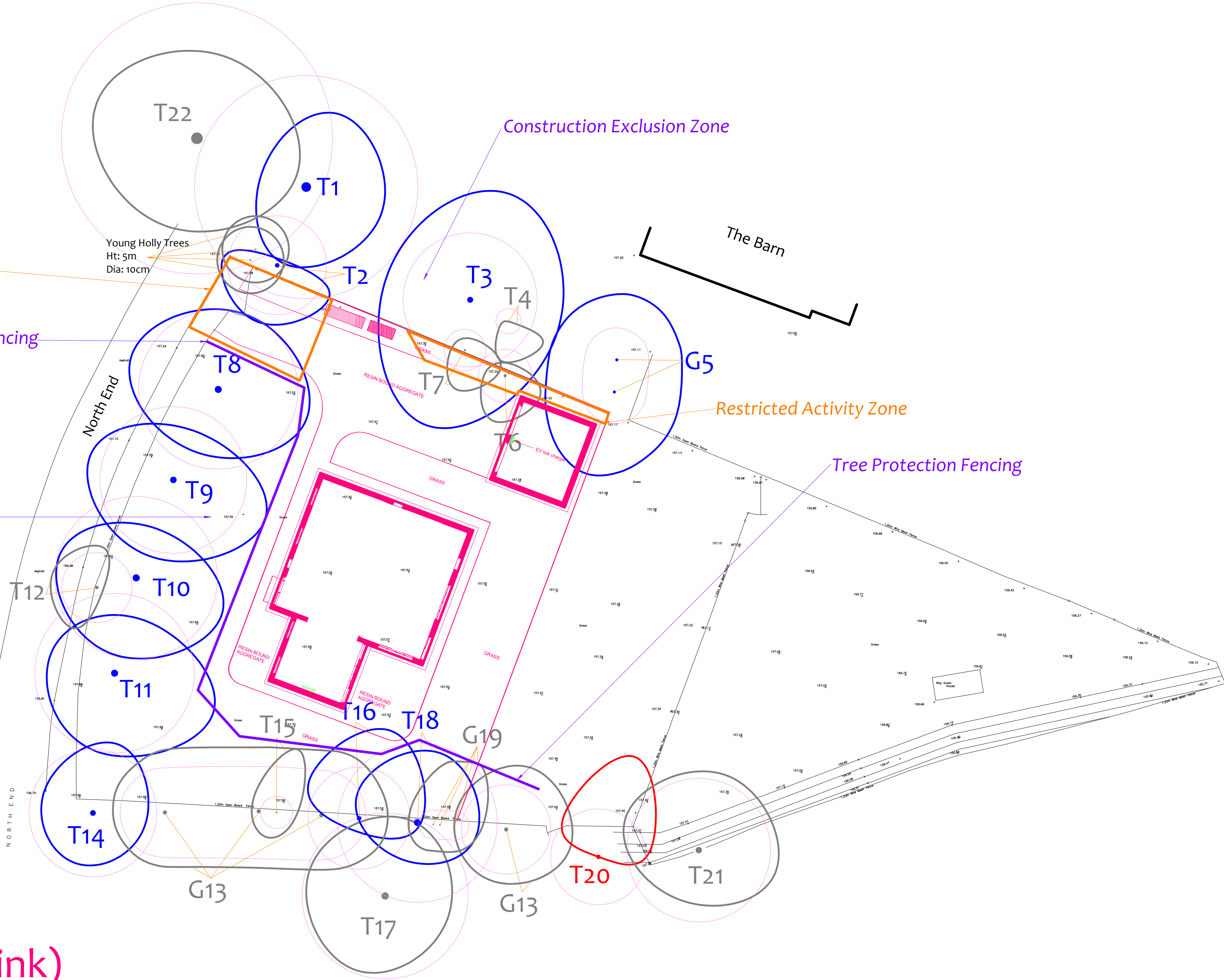
	BS 5837 Root Protection Area (radius = 1x stem diameter)
	Root Protection Area needing amendment due to site conditions, e.g. presence of existing road or building.
	Root Protection Area having been amended to account for site conditions
T1 = Tree No 1	G2 = Group No 2 H3 = Hedge No 3

	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)	Radius (m)	Area (sqm)
T1	Weeping Willow	13	8.4	222
T2	Norway Spruce	15	3.7	43
T3	Copper Beech	13	5.0	80
T4	Golden Rain Tree	5.5	1.0	3
T5	Sorbus and Norway Maple	10	2.4	18
G5	Hazel	6.5	3.4	35
T6	Elder	4.5	2.0	13
T7	Hawthorn	6	1.6	8
T8	Beech	13	6.0	113
T9	Beech	15	5.5	96
T10	Beech	15	6.1	118
T11	Beech	15	6.0	113
T12	Ash	15	2.6	22
G13	Hazel	6.5	3.4	35
T14	Horse Chestnut	11	4.8	72
T15	Ash	7	1.2	5
T16	Sycamore	13	3.8	46
T17	Ash	15	6.2	122
T18	Ash	15	6.0	113
G19	Sycamore	8	1.1	4
T20	Maple	4	3.6	41
T21	Ash	12	5.4	92
T22	Ash	17	10.2	327

Proposed Layout (Pink)

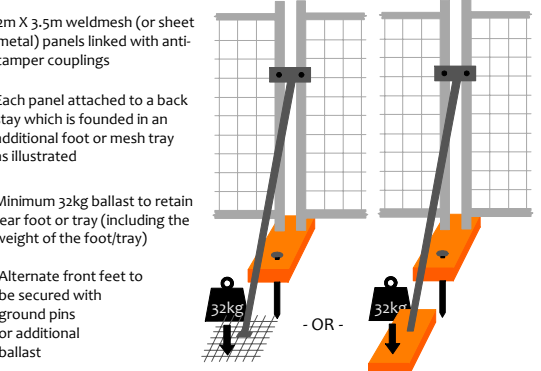


Tree Protection Plan

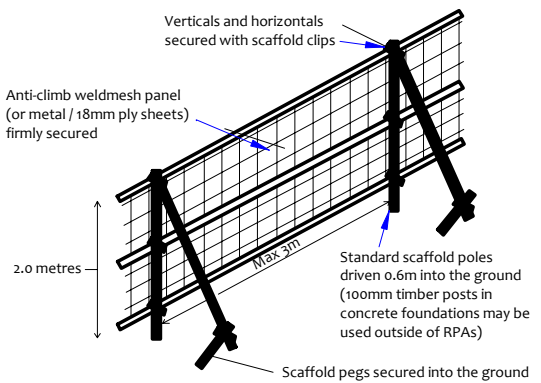
Tree Protection Barriers:

	Fixed protective barrier: The 'In-Ground System' or the 'Backstay System'. To remain in place for all construction activity		Construction Exclusion Zone Stem protected to a height of 2.5m with thick cloth & wire Tree Protection Boring 1.2 x 1.2 x 2.4m high 25mm plywood
	Moveable protective barrier: The 'Backstay System'. To remain in place except when approved works are being undertaken in the Restricted Zone		Orange Barrier Mesh Fencing, 1.8m, on steel fencing pins and wooden posts To remain in place throughout all construction activity

The 'Back Stay System'



The 'In-Ground' System

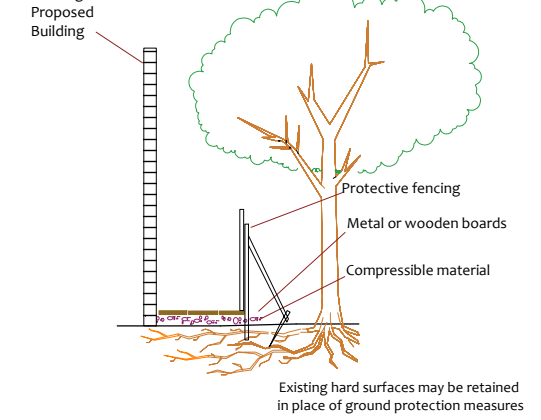


Construction Exclusion Zone

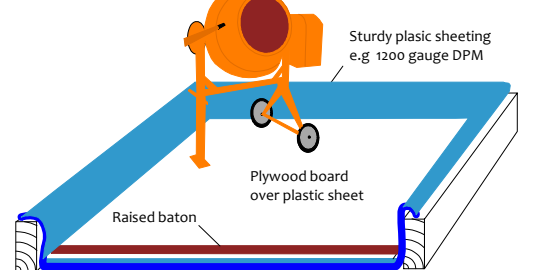
Within this area the following restrictions shall apply:
No occupation or land regarding whatsoever.
No storage of materials, rubble, soil or spoil.
No fires within the exclusion zone or within 10m of any tree canopy.
No site cabins or other temporary structures.
No discharge of polluted water, cement or chemicals of any kind.
No use of any machinery, or passage or parking of vehicles.
No tree works without council consent.

Restricted Activity Zone

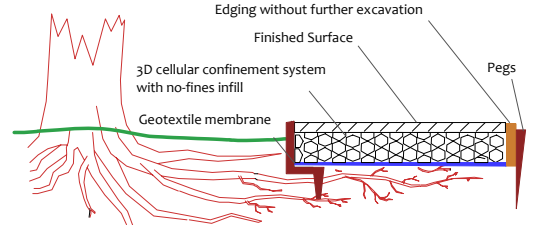
Ground Protection where specified in Restricted Zones



Dedicated Mixing and Cleaning Area



Drive Construction: Minimum-Dig Method



Tree Ref.	Species	Height (m)	Root Protection Area	Radius (m)	Area (sq. m)
T1	Weeping Willow	13	8.4	222	14.9
T2	Norway Spruce	15	3.7	43	6.6
T3	Copper Beech	13	5.0	80	8.9
T4	Golden Rain Tree	5.5	1.0	3	1.7
G5	Sorbus and Norway Maple	10	2.4	18	4.3
T6	Elder	4.5	2.0	13	3.5
T7	Hawthorn	6	1.6	8	2.8
T8	Beech	13	6.0	113	10.6
T9	Beech	15	5.5	96	9.8
T10	Beech	15	6.1	118	10.8
T11	Beech	15	6.0	113	10.6
T12	Ash	15	2.6	22	4.7
G13	Hazel	6.5	3.4	35	6.0
T14	Horse Chestnut	11	4.8	72	8.5
T15	Ash	7	1.2	5	2.1
T16	Sycamore	13	3.8	46	6.8
T17	Ash	15	6.2	122	11.1
T18	Ash	15	6.0	113	10.6
G19	Sycamore	8	1.1	4	1.9
T20	Maple	4	3.6	41	6.4
T21	Ash	12	5.4	92	9.6
T22	Ash	17	10.2	327	18.1