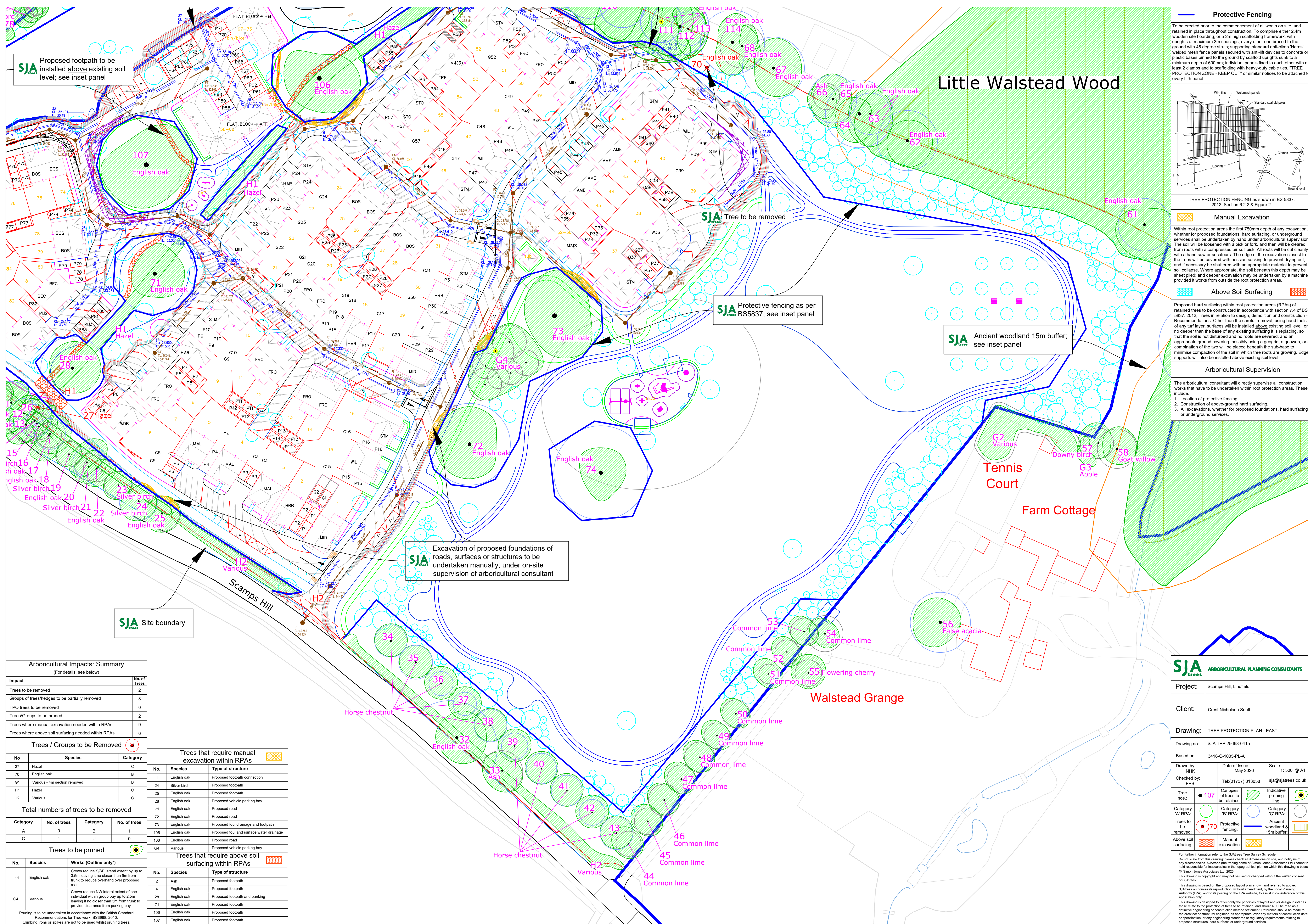
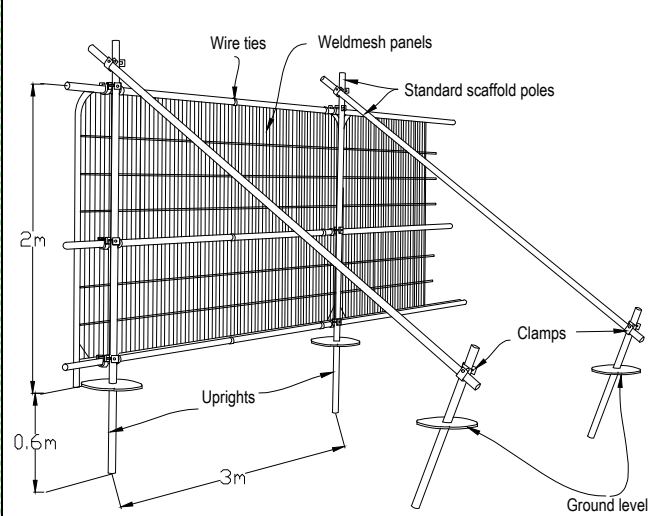




Protective Fencing

To be erected prior to the commencement of all works on site, and retained in place throughout construction. To comprise either 2.4m wooden site hoarding, or a 2m high scaffolding framework, with uprights at maximum 3m spacings, every other one braced to the ground with 45 degree struts, supporting standard anti-climb 'Heras' welded mesh fence panels secured with anti-lift devices to concrete or plastic bases pinned to the ground by scaffold uprights sunk to a minimum depth of 600mm; individual panels fixed to each other with at least 2 clamps and to scaffolding with heavy-duty cable ties. 'TREE PROTECTION ZONE - KEEP OUT' or similar notices to be attached to every fifth panel.



TREE PROTECTION FENCING as shown in BS 5837: 2012, Section 6.2.2 & Figure 2.

Manual Excavation

Within root protection areas the first 750mm depth of any excavation, whether for proposed foundations, hard surfacing, or underground services shall be undertaken by hand under arboricultural supervision. The soil will be loosened with a pick or fork, and then will be cleared from roots with a compressed air soil pick. All roots will be cut cleanly with a hand saw or secateurs. The edge of the excavation closest to the trees will be covered with hessian sacking to prevent drying out, and if necessary be shuttered with an appropriate material to prevent soil collapse. Where appropriate, the soil beneath this depth may be sheet piled, and deeper excavation may be undertaken by a machine provided it works from outside the root protection areas.

Above Soil Surfacing

Proposed hard surfacing within root protection areas (RPAs) of retained trees to be constructed in accordance with section 7.4 of BS 5837: 2012. Trees in relation to design, demolition and construction - Recommendations. Other than the careful removal, using hand tools, of any turf layer, surfaces will be installed above existing soil level, or no deeper than the base of any existing surfacing it is replacing, so that the soil is not disturbed and no roots are severed; and an appropriate ground covering, possibly using a geogrid, a geoweb, or a combination of the two will be placed beneath the sub-base to minimise compaction of the soil in which tree roots are growing. Edge supports will also be installed above existing soil level.

Arboricultural Supervision

The arboricultural consultant will directly supervise all construction works that have to be undertaken within root protection areas. These include:

1. Location of protective fencing.
2. Construction of above-ground hard surfacing.
3. All excavations, whether for proposed foundations, hard surfacing, or underground services.

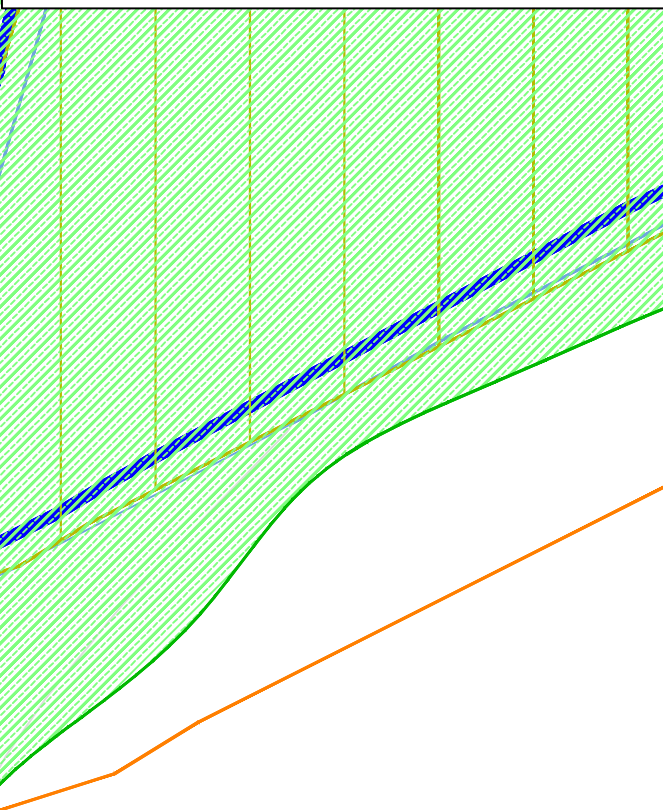


Diagram showing the construction of above-soil surfacing using a geogrid and geoweb, with labels for the materials and the resulting structure.

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Arboricultural Impacts: Summary

Impact	No. of Trees
Trees to be removed	2
Groups of trees/hedges to be partially removed	3
TPO trees to be removed	0
Trees/Groups to be pruned	2
Trees where manual excavation needed within RPAs	9
Trees where above soil surfacing needed within RPAs	6

Trees / Groups to be Removed

No	Species	Category
27	Hazel	C
70	English oak	B
G1	Various - 4m section removed	B
H1	Hazel	C
H2	Various	C

Total numbers of trees to be removed

Category	No. of trees	Category	No. of trees
A	0	B	1
C	1	U	0

Trees to be pruned

No.	Species	Works (Outline only*)
111	English oak	Crown reduce S/E lateral extent by up to 3.5m leaving it no closer than 9m from trunk to reduce overhang over proposed road
G4	Various	Crown reduce N/W lateral extent of one individual within group by up to 2.5m leaving it no closer than 3m from trunk to provide clearance from parking bay

Pruning is to be undertaken in accordance with the British Standard Recommendations for Tree work, BS3998: 2010. Climbing irons or spikes are not to be used whilst pruning trees.

Trees that require manual excavation within RPAs

No.	Species	Type of structure
1	English oak	Proposed footpath connection
24	Silver birch	Proposed footpath
25	English oak	Proposed footpath
28	English oak	Proposed vehicle parking bay
71	English oak	Proposed road
72	English oak	Proposed road
73	English oak	Proposed foul drainage and footpath
105	English oak	Proposed foul and surface water drainage
106	English oak	Proposed road
G4	Various	Proposed vehicle parking bay

Trees that require above soil surfacing within RPAs

No.	Species	Type of structure
2	Ash	Proposed footpath
4	English oak	Proposed footpath
28	English oak	Proposed footpath and banking
71	English oak	Proposed footpath
106	English oak	Proposed footpath
107	English oak	Proposed footpath