

**APPENDIX 5**  
**Tree Protection Plan**

**Arboricultural Impacts: Summary**  
(For details, see below)

Impact	No. of Trees
Trees to be removed	242
Groups of trees/hedges/woodlands to be removed	18
Groups of trees/hedges/woodlands to be partially removed	5
TPO trees to be removed	1
Trees to be pruned	0
Trees where manual excavation needed within RPAs	8
Trees where above soil surfacing needed within RPAs	8

**Total numbers of trees to be removed**

Category	No. of trees	Category	No. of trees
A	0	B	11
C	198	U	33

**Trees that require above soil surfacing within RPAs**

No.	Species	Type of structure
58	Scots pine	Proposed footpath
142	Hornbeam	Proposed footpath
152	Lawson cypress	Proposed footpath
160	English oak	Proposed footpath
163	Wild cherry	Proposed footpath
318	Lawson cypress	Proposed footpath
507	English oak	Proposed footpath
508	English oak	Proposed footpath

**Trees that require manual excavation within RPAs**

No.	Species	Type of structure
75	Horse chestnut	Proposed drainage connection to existing
152	Lawson cypress	Proposed footpath
306	Coast redwood	Proposed retaining wall
307	Goat willow	Proposed retaining wall
313	Wellingtonia	Proposed retaining wall
410	Japanese maple	Proposed footpath
507	English oak	Proposed access road
657	English oak	Proposed drainage connection to existing



**Protective Fencing**

To be erected prior to the commencement of all works on site, and retained in place throughout construction. To comprise 2m tall 'Heras' welded mesh panels on rubber or concrete feet. The panels shall be joined together with two anti-lamper couplers, installed so that they can only be removed from inside the fence. Distance between the couplers should be at least 1m and should be uniform throughout the fence. Panels should be supported (where possible) on the inner side by stabilizer struts, which should normally be attached to a base plate secured with ground pins (see Figure 3a below). Where the fencing is to be erected on retained hard surfacing or it is otherwise unfeasible to use ground pins, e.g. due to the presence of underground services, the stabilizer struts shall be mounted on a block tray (see Figure 3b) 'TREE PROTECTION ZONE - KEEP OUT' or similar notices to be attached to every fifth panel.

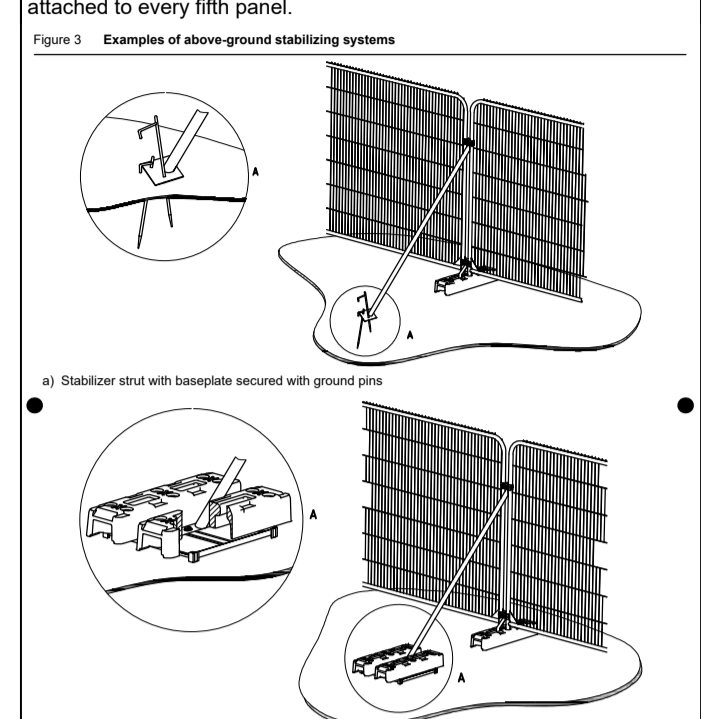


Figure 3 Examples of above-ground stabilizing systems  
 Figure 3a Stabilizer strut with baseplate secured with ground pins  
 Figure 3b Stabilizer strut mounted on block tray

**GROUND PROTECTION**

To be installed prior to commencement of demolition or construction works, at same time as erection of protective fencing. For purely pedestrian traffic: scaffold boards or similar, of at least 35mm thickness, butted together and attached to each other with wooden battens or steel tie straps, laid either on an above ground scaffold framework, or on a compressible material (a 75mm deep layer of woodchips may be appropriate) above a biaxial geotextile grid ('geogrid' - 'Tensar' or similar) and pinned to the ground with steel pins to prevent movement. For wheeled or tracked traffic: temporary aluminium roadway ('Trakway' or similar), interlocking polyethylene tread boards ('Ground-Guards' or similar), or reinforced concrete slabs laid on an appropriate compressible layer above a biaxial geotextile grid - to be designed by a structural engineer to accommodate likely loadings.

**Manual Excavation**

Within root protection areas the first 750mm depth of any excavation 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 shrouded with an appropriate material to prevent soil collapse.

**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 (cyan hatch), 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 and ground protection.
2. Construction of above-ground hard surfacing.
3. All excavations, whether for proposed foundations, hard surfacing, or underground services.

**SJA ARBORICULTURAL PLANNING CONSULTANTS**

<b>Project:</b>	Haskins Garden Centre and Birdworld - Play Barn	
<b>Client:</b>	Haskins Garden Centre and Birdworld Fareham	
<b>Drawing:</b>	TREE PROTECTION PLAN	
<b>Drawing no:</b>	SJA TPP 23510-041 - N	
<b>Based on:</b>	Birdworld Landscape Masterplan Base_WIP_Planning	
<b>Drawn by:</b> KLN	<b>Date of Issue:</b> Jan 2024	<b>Scale:</b> 1: 500 @A1
<b>Checked by:</b> NHK	<b>Tel:</b> (01737) 813058	<b>sja@sjatrees.co.uk</b>
<b>Tree nos.:</b> 315	<b>Category 'U' trees:</b> 289	<b>Canopies of trees to be retained:</b> [Symbol]
<b>Category 'A' RPA:</b> [Symbol]	<b>Category 'B' RPA:</b> [Symbol]	<b>Category 'C' RPA:</b> [Symbol]
<b>Trees to be removed:</b> [Symbol]	<b>Protective fencing:</b> [Symbol]	<b>Ground protection:</b> [Symbol]
<b>Above soil surfacing:</b> [Symbol]	<b>Manual excavation:</b> [Symbol]	

For further information refer to the SJA Trees Survey Schedule. Do not scale from this drawing; please check all dimensions on and refer to above. SJA Trees authorises its reproduction without amendment, by the Local Planning Authority (LPA), and its posting on the LPA website, to assist in consideration of this application only. This drawing is designed to reflect only the principles of layout and/or design insofar as these relate to the protection of trees to be retained, and should NOT be used as a definitive engineering or construction method statement. Reference should be made to the architect or structural engineer, as appropriate, over any matters of construction detail or specifications, or any engineering standards or regulatory requirements relating to proposed structures, hard surfaces or underground services.

