



# **Initial Arboricultural Impact Assessment**

**in Relation to Proposed  
Construction of Agricultural Access Track**



**Chadswell Hall,  
Chaigley, Lancashire  
BB7 3LT**

Prepared by:

**Bowland**   
Tree Consultancy Ltd

December 2015

# INITIAL ARBORICULTURAL IMPACT ASSESSMENT CHADSWELL HALL, CHAIGLEY

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<b>TREE SURVEY SCHEDULE FOR ARBORICULTURAL IMPACT APPRAISAL</b>	
<b>Site:</b>	Chadswell Hall, Chipping Road, Chaigley, Lancashire, BB7 3LT
<b>Agent for Client:</b>	Gary Hoerty Associates

<b>Surveyor:</b>	Jennie Keighley MSc
<b>Survey Date:</b>	17 July 2015
<b>Job Ref:</b>	BTC909

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No.	Species	Height	Stem Diam.	Branch Spread	Branch & Canopy Clearances	Life Stage	PC	General Observations and Comments	Management Recommendations	ERC	Cat. Grade	RPA (m <sup>2</sup> )	RPA Radius (m)
T1	Sycamore	17	920	N 8 E 8 S 8 W 8	2-N 2	M	G	<ul style="list-style-type: none"> <li>Bifurcates at a height of 3m.</li> <li>Basal epicormics.</li> </ul>	<ul style="list-style-type: none"> <li>Protect RPA throughout development.</li> </ul>	40+	A1/2	383	11.04
T2	Sycamore	23	900	N 5 E 8 S 9.5 W 6	4-S 2	M	G	<ul style="list-style-type: none"> <li>Seven well established suckerlings around base up to 120mm stem diameter.</li> <li>Crown heavily biased south.</li> <li>2m long split/wound on significant eastern branch.</li> <li>Several 100mm diameter branch failures and removals.</li> <li>Ivy has been removed and stacked around base.</li> </ul>	<ul style="list-style-type: none"> <li>Retain in context of proposed development.</li> <li>Ensure protection of Root Protection Area (RPA) throughout construction using temporary protective fencing to produce a Construction Exclusion Zone (CEZ) (see appendices).</li> </ul>	40+	A1	366	10.8
T3	Hybrid Black Poplar	29	950	N 9 E 12 S 9 W 11	2-W 1	M	M	<ul style="list-style-type: none"> <li>Significant leader on western side at a height of 2m.</li> <li>Showing signs of a moderate reduction in vitality.</li> <li>Limb lost from top of crown.</li> </ul>	<ul style="list-style-type: none"> <li>Retain in context of proposed development.</li> <li>Ensure protection of RPA throughout construction using temporary protective fencing to produce a CEZ.</li> </ul>	40+	B1	408	11.4
T4	Sycamore	28	1200	N 12 E 9 S 6 W 7	2 3	M	M	<ul style="list-style-type: none"> <li>Numerous pruning wounds on southern side where cut away from power line. Some partially occluded, some not.</li> <li>Basal epicormics.</li> <li>Aerial roots on northern side.</li> <li>Trifurcates at a height of 2m.</li> <li>Locally notable status.</li> </ul>	<ul style="list-style-type: none"> <li>Retain in context of proposed development.</li> <li>Ensure protection of RPA throughout construction using temporary protective fencing to produce a CEZ.</li> </ul>	40+	A1	651	14.4
T5	Beech		1200#	N 12 E 13 S 8 W 5	1.5-E 1	M	G	<ul style="list-style-type: none"> <li>Located on neighbouring land and, therefore, not inspected in detail.</li> <li>Western crown reaches 6m into field.</li> <li>On boundary verge above ditch to the east.</li> <li>Veteran status.</li> </ul>	<ul style="list-style-type: none"> <li>Retain in context of proposed development.</li> <li>Ensure protection of RPA throughout construction using temporary protective fencing to produce a CEZ.</li> </ul>	40+	A1/3	651	14.4

**Headings and Abbreviations:**

<b>No.</b>	Allocated sequential reference number - Tree ('T'), Group ('G'), Woodland ('W') or Hedge ('H') reference number - refer to plan and to numbered tags where applicable
<b>Species:</b>	Common name
<b>Height:</b>	In metres, to nearest half metre – where possible approximately 80% are measured using an electronic clinometer and the remainder estimated against the measured trees. In the case of Groups and Woodlands the measurement listed is that of the highest tree
<b>Stem Diam.:</b>	Stem diameter in millimetres, to nearest 10mm - measured and calculated as per Annex C of BS5837:2012. MS = multi-stemmed, TS = twin-stemmed
<b>Branch Spread:</b>	Crown radius measured (or estimated where considered appropriate) from the four cardinal points (north, east, south and west) to give an accurate visual representation of the crown
<b>Branch &amp; Canopy Clearances:</b>	Existing height above ground level, in metres, of first significant branch and direction of growth (e.g. 2.5-N) and of canopy at lowest point – to inform on crown to height ratio, potential for shading, etc.
<b>Life Stage:</b>	Estimated age class - Y = young, SM = semi-mature, EM = early-mature, M = mature, PM = post-mature
<b>PC:</b>	Physiological Condition - a measure of the tree(s)' overall vitality, i.e. D = Dead, MD = Moribund, P = Poor, M = Moderate, G = Good
<b>General Observations and Comments:</b>	Comments relating to the tree(s)' overall condition and any other pertinent factors including structural defects, current and potential direct structural damage, physiological decline, poor form, etc.
<b>Management Recommendations:</b>	Either Preliminary or In Consideration of the Proposal - In the case of Arboricultural Constraints Surveys the recommended management works only take existing site and tree circumstances and conditions into account and not proposed developments. Arboricultural Impact Assessment and Method Statement related Surveys take the proposed development into consideration with recommendations made accordingly. More than one option may be given if considered appropriate
<b>ERC:</b>	Estimated Remaining Contribution - in years as per BS5837:2012 (i.e. <10, 10+, 20+, 40+)
<b>Cat. Grade:</b>	Category Grading - tree retention value listed as U, A, B or C - in accordance with BS5837:2012 Table 1
<b>RPA m<sup>2</sup>:</b>	Root Protection Area in m <sup>2</sup> - calculated area around the tree that must be appropriately protected throughout the development process in order avoid root damage
<b>RPA Radius (m):</b>	Root Protection Area Radius - in metres measured from the centre of the stem to the line of tree protection
<b># (Estimated Dimensions):</b>	Where trees are located off-site, or are inaccessible for any other reason, and accurate measurements or other information cannot be taken then the information provided is estimated and is duly suffixed with a "#" symbol

<b>TREE SURVEY SCHEDULE FOR ARBORICULTURAL CONSTRAINTS APPRAISAL</b>	
<b>Site:</b>	Chadswell Hall, Chipping Road, Chaigley, Lancashire, BB7 3LT
<b>Agent for Client:</b>	Gary Hoerty Associates

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No.	Species	Height	Stem Diam.	Branch Spread	Branch & Canopy Clearances	Life Stage	PC	General Observations and Comments	Management Recommendations	ERC	Cat. Grade	RPA (m <sup>2</sup> )	RPA Radius (m)	
T6	Sycamore	24	600#	N E S W	5 7 7 6	1-E 1	EM	G	<ul style="list-style-type: none"> <li>Dense basal epicormics render stem inaccessible.</li> <li>Located in hedge H2.</li> </ul>	<ul style="list-style-type: none"> <li>Retain in context of proposed development.</li> <li>Ensure protection of RPA throughout construction using temporary protective fencing to produce a CEZ.</li> </ul>	40+	A1	163	7.2
T7	Holly	11	1x430 1x400 (ts)	N E S W	2 2 5 3	0.5-E 0	PM	M	<ul style="list-style-type: none"> <li>Moderate dieback in northern crown.</li> <li>Stem and branches heavily galled throughout.</li> <li>On verge, with raised buttresses.</li> </ul>	<ul style="list-style-type: none"> <li>Protect RPA throughout development.</li> </ul>	10+	C1	156	7.05
G1	2no. Ash, 1no. Blackthorn, 1no. Hawthorn	≤ 10	≤ 1x170 1x130 2x110 (ms)	N E S W	≤ 2 ≤ 2 ≤ 2 ≤ 2	0.5-E ≥ 1	Y-SM	M	<ul style="list-style-type: none"> <li>Very closely spaced group.</li> <li>One of sub-stems on eastern Ash bifurcates at a height of 1m with included bark union.</li> <li>Another bifurcating sub-stem has decay spreading from union up stems.</li> </ul>	<ul style="list-style-type: none"> <li>Retain in context of proposed development.</li> <li>Ensure protection of RPA throughout construction using temporary protective fencing to produce a CEZ.</li> </ul>	10+	C1	≤ 32	≤ 3.17
G2	21no. Sycamore, 11no. Scots Pine, 3no. Ash, 3no. Green Alder, 3no. Swamp Cypress, 2no. Elder, 2no. Hawthorn, 2no. Damson	≤ 4	≤ 200	N E S W	≤ 2 ≤ 2 ≤ 2 ≤ 2	0.5 ≥ 0	Y-SM	M-G	<ul style="list-style-type: none"> <li>Widely spaced group.</li> <li>One Scots Pine to the west has failed at base.</li> </ul>	<ul style="list-style-type: none"> <li>Remove one/two trees as necessary from south-east corner of group in order to construct access track as proposed.</li> <li>Ensure protection of RPA of remainder of group throughout construction using temporary protective fencing to produce a CEZ.</li> </ul>	40+	C1	≤ 18	≤ 2.4
H1	Holly, Hawthorn, Blackthorn, Hazel, Elder, Ash	≤ 2	≤ 6x50 (ms)	≤ 1 wide	N/A ≥ 0	SM	G	<ul style="list-style-type: none"> <li>Managed roadside hedge.</li> </ul>	<ul style="list-style-type: none"> <li>Remove approximately 15m length of hedge to form access at road frontage as proposed.</li> <li>Relocate a further approximately 60m length of hedge into a set-back position to allow for required visibility splay.</li> <li>Protect RPA of remainder of hedge throughout development.</li> </ul>	20+	C1	N/A	1.47	
H2	Hawthorn, Elder	≤ 3	≤ 6x50 (ms)	≤ 2 wide	N/A ≥ 0	EM	M	<ul style="list-style-type: none"> <li>Outgrown, previously laid boundary hedge</li> </ul>	<ul style="list-style-type: none"> <li>Remove one section, approximately 5m in length, to form access to existing track as proposed.</li> <li>Protect RPA of remaining hedge throughout development.</li> </ul>	20+	C1/2	N/A	1.47	

**BS5837:2012 Table 1 – Cascade Chart for Tree Quality Assessment**

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
<b>Trees unsuitable for retention</b> (see Note)				
<p><b>Category U</b></p> <p>Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years</p>	<ul style="list-style-type: none"> <li>▪ Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)</li> <li>▪ Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline</li> <li>▪ Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality</li> </ul> <p><i>Note: Category U trees can have existing or potential conservation value which it might be desirable to preserve; see BS5837:2012 paragraph 4.5.7.</i></p>			Red
<b>1. Mainly arboricultural qualities</b>		<b>2. Mainly landscape qualities</b>	<b>3. Mainly cultural values, including conservation</b>	
<b>Trees to be considered for retention</b>				
<p><b>Category A</b></p> <p><b>Trees of high quality</b> with an estimated remaining life expectancy of at least 40 years</p>	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	Green
<p><b>Category B</b></p> <p>Those of moderate quality and value: those in such a condition as to make a significant contribution. A minimum of 20 years is suggested.</p>	Trees that might be included in the high category, but are downgraded because of impaired condition. Examples include the presence of remediable defects including unsympathetic past management and minor storm damage	Trees present in numbers, usually as groups or woodlands, so they form distinct landscape features which attract a higher collective rating than they might as individuals. But which are not, individually, essential components of formal or semi-formal arboricultural features. For example, trees of moderate quality within an avenue that includes better, A category specimens. Or trees which are internal to the site, therefore individually having little visual impact on the wider locality	Trees with clearly identifiable conservation or other cultural benefits	Blue
<p><b>Category C</b></p> <p>Those trees of low quality and value: currently in adequate condition to remain until new planting could be established - a minimum of 10 years is suggested - or young trees with a stem diameter below 150 mm</p>	Trees not qualifying in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater landscape value, and/or trees offering low or only temporary screening benefit	Trees with very limited conservation or other cultural benefits	Grey
	<p>Note – Whilst C category trees will usually not be retained where they would impose a significant constraint on development, young trees with a stem diameter of less than 150mm should be considered for relocation</p>			

## **DISCLAIMER**

**Survey Limitations:** Unless otherwise stated all trees are surveyed from ground level using non-invasive techniques. The disclosure of hidden crown and stem defects, in particular where they may be above a reachable height or where trees are ivy clad or in areas of ground vegetation, cannot therefore be expected. All obvious defects, however, are reported. Detailed tree safety appraisals are only carried out under specific written instructions. Comments upon evident tree safety relate to the condition of said tree at the time of the survey only.

Unless otherwise stated all trees should be re-inspected annually in order to appraise their on-going mechanical integrity and physiological condition. It should, however, be recognised that tree condition is subject to change, for example due to the effects of disease, decay, high winds, development works, etc. Changes in land use or site conditions (e.g. development that increases access frequency) and the occurrence of severe weather incidents are also significant considerations with regards tree structural integrity and trees should therefore be re-assessed in the context of such changes and/or incidents and inspected at intervals relative to identified and varying site conditions and associated risks.

Where trees are located wholly or partially on neighbouring private third-party land then said land is not accessed and our inspection is therefore restricted to what can reasonably be seen from within the site. Stem diameters of trees located on such land are estimated. Any subsequent comments and judgments made in respect of such trees are based on these restrictions and are our preliminary opinion only. Recommendations for works to neighbouring third-party trees are only made where a potentially unacceptable risk to persons and/or property has been identified during our survey. Where significant structural defects of third-party trees are identified and associated management works are considered essential to negate any risk of harm and/or damage then we will first attempt to inform the site occupier of the issues and, if not possible, then inform the relevant Council. Where a more detailed assessment is considered necessary then appropriate recommendations are set out in the Tree Survey Schedule.

Where tree stem locations are not included on the plan(s) provided then they are plotted at the time of the survey using, where appropriate and/or practicable, a combination of measurement triangulation and GPS co-ordination. Where this is not possible then locations are estimated. Restrictions in these respects are detailed in the report.

The tree survey and any report information provided is intended as a guide to identify key tree related constraints to site development only. As such, the potential influence of trees upon existing or proposed buildings or other structures resulting from the effects of their roots abstracting water from shrinkable load-bearing soils is not considered herein. The tree survey information in its current form should not therefore be considered sufficient to determine appropriate foundation depths for new buildings. Accordingly, an updated survey, with reference to the current NHBC Standards Chapter 4.2 - Building Near Trees, must therefore be prepared for the specific purpose of informing suitable foundation depths subsequent to planning approval being granted. The advice of a structural engineer must also be sought with regard to appropriate foundation depths for new buildings.

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## - TEMPORARY PROTECTIVE FENCING SPECIFICATION -

**Construction Exclusion Zones (CEZs)**, enclosed by **Temporary Protective Fencing**, as detailed below and to be agreed with the Local Planning Authority (LPA), shall:

1. be retained in place throughout the development process, as specified in the 'Temporary Protective Fencing Construction' section below and detailed in BS5837:2012 Figure 2 (overleaf);
2. be sited in the area(s) defined by the Root Protection Areas on the associated Tree Plan;
3. be erected prior to any construction, demolition or excavation works and remain in place for the duration of the project;
4. preclude any delivery of site accommodation and/or materials and/or plant machinery;
5. preclude all construction related activity, with the sole exception of specified arboricultural works and any other works to be carried out under supervision that have been agreed by all parties; and
6. preclude the storage of all development related materials and substances including fuels, oils, additives, cement and/or any other deleterious substance.

Any incursion into CEZs must be by prior arrangement, following consultation with the LPA.

### Temporary Protective Fencing Construction

1. Temporary protective fencing panels shall be weldmesh "Heras" panels of at least 2.0 metres in height.
2. The panels shall butt together and be securely fixed to a scaffold framework, as per 3 to 5 below.
3. The scaffold framework shall comprise of upright poles of at least 3.0 metres in length driven no less than 0.6 metres into the ground at maximum 3.0 metre centres with horizontal and diagonal poles fixed to the uprights, as per 4 to 5 below.
4. The two horizontal rail poles shall be attached to the uprights at heights of 0.6 and 1.8 metres with 3 no. clamps to each joint.
5. The diagonal scaffold pole struts be clamped to the top rail of the scaffold framework at a 45° angle and extend back into the CEZ and clamped to a 0.7 metre length of scaffold tube that shall be driven no less than 0.5m into the ground.
6. No fixing shall be made to any tree and all possible precautions shall be taken to prevent damage to tree roots when locating posts.
7. A 600mm x 300mm warning sign reading "TREE PROTECTION AREA KEEP OUT" (see Figure 1, below) shall be fixed to every 10.0 metre length of protective fencing.
8. On completion and prior to any demolition or construction works, site preparation, excavation or delivery of plant and materials, the Consulting Arboriculturist shall inspect the Temporary Protective Fencing.

Figure 1: CEZ Warning Sign

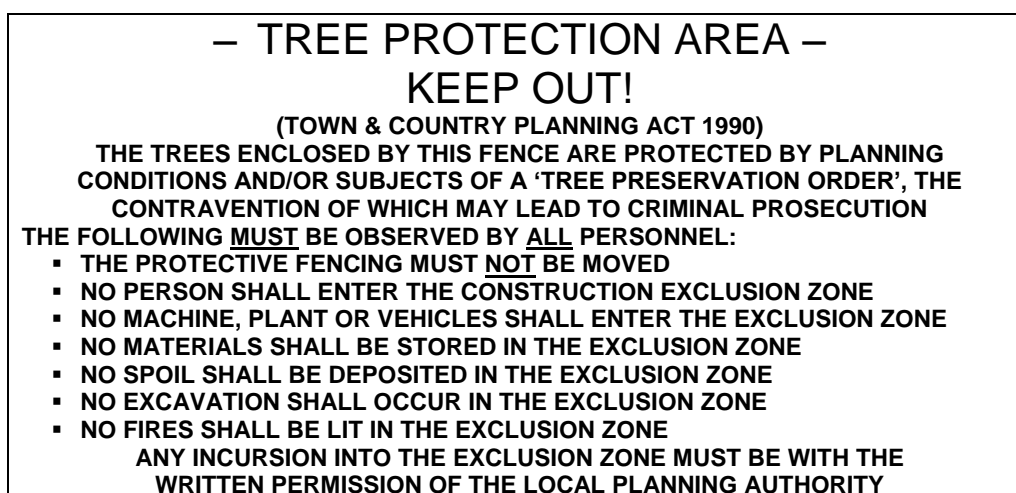




Figure 2: BS5837:2012 Default specification for protective barrier

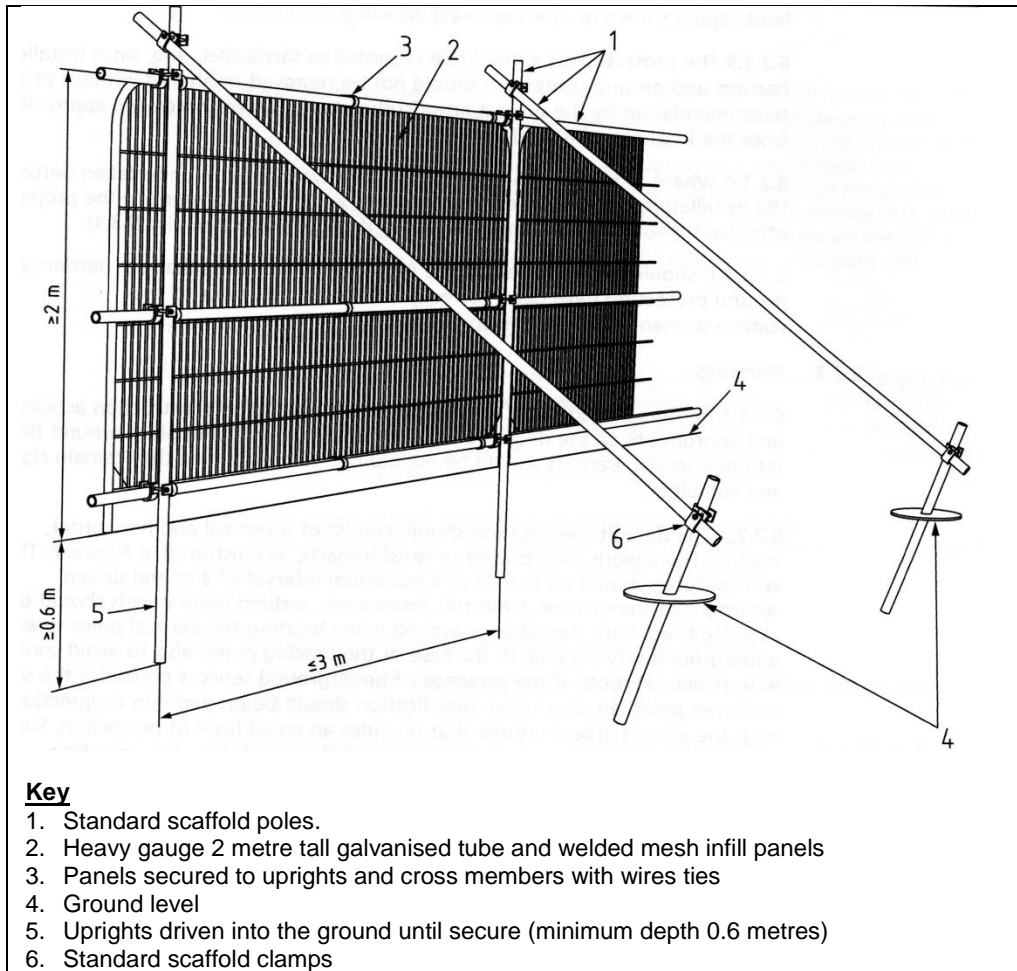
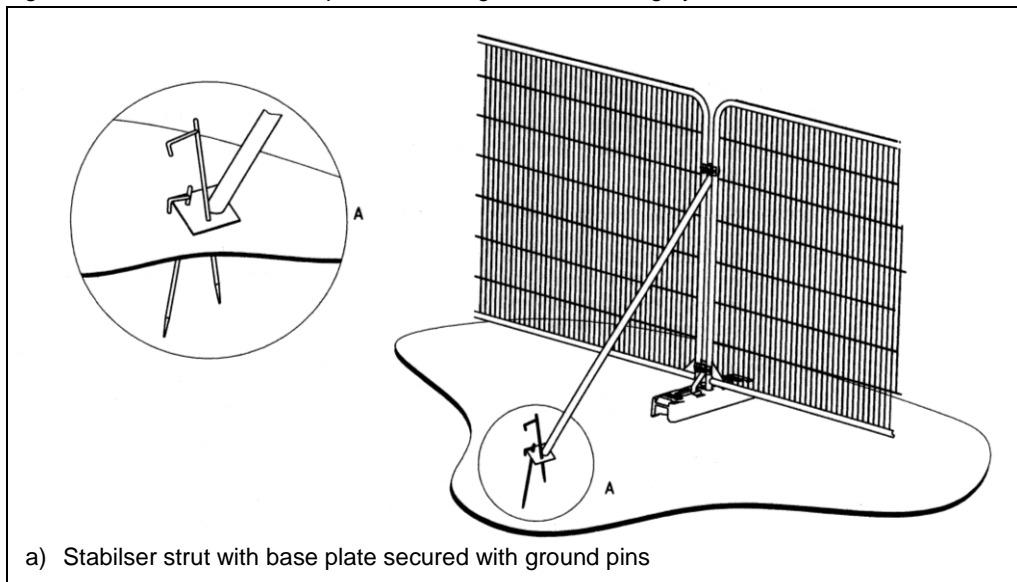
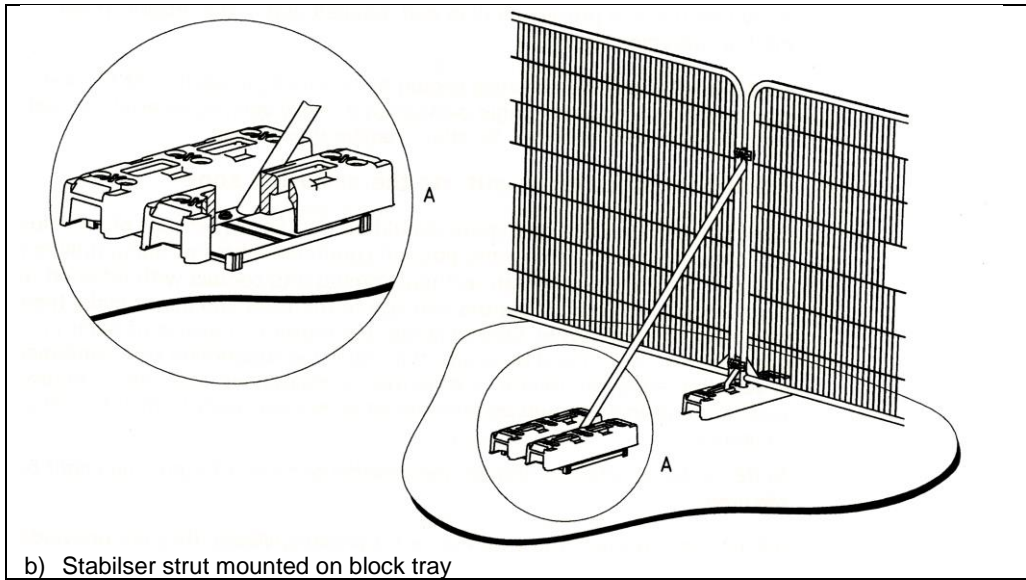


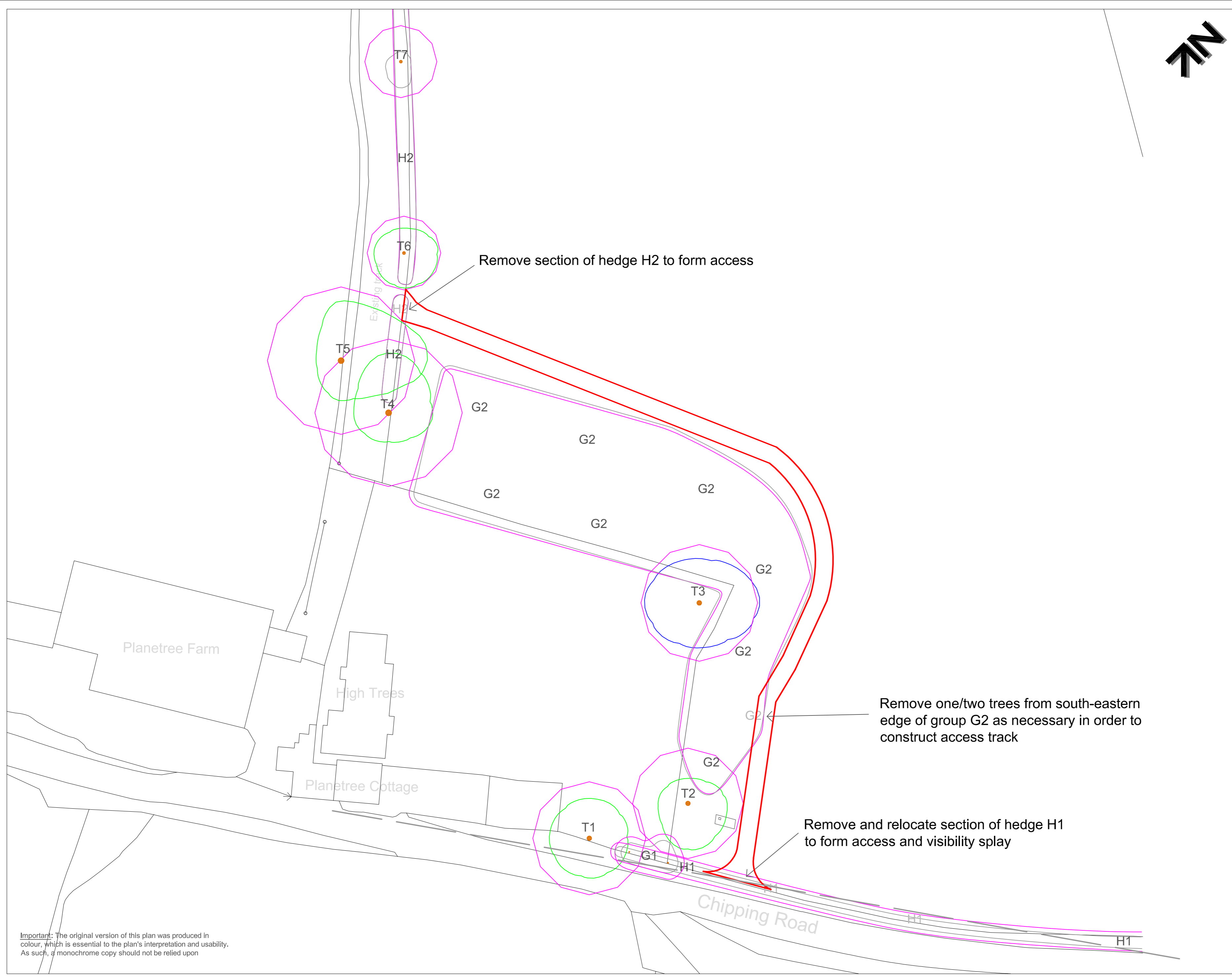
Figure 3: BS5837:2012 Examples of above-ground stabilising systems







b) Stabiliser strut mounted on block tray



**KEY**

T = Individual Tree  
 G = Group of Trees  
 H = Hedge

Please refer to associated Tree Survey Schedule for specific details in respect of items below:

**Tree Categorisations:**

Those to be Considered for Retention:

Category 'A' Tree/Group/Hedge  
 Those of a High Quality with an Estimated Remaining Life Expectancy of at Least 40 Years

Category 'B' Tree/Group/Hedge  
 Those of a Moderate Quality with an Estimated Remaining Life Expectancy of at Least 20 Years

Category 'C' Tree/Group/Hedge  
 Those of Low Quality with an Estimated Remaining Life Expectancy of at Least 10 Years, or Young Trees

Those Considered Unsuitable for Retention:

Category 'U' Tree/Group/Hedge  
 Those in Such a Condition that they Cannot Realistically be Retained as Living Trees in the Context of the Current Land Use for Longer Than 10 Years

Note: The locations of individual trees, groups, hedges were not included on the topographical site survey plan provided, and their locations were subsequently plotted by the arboricultural surveyor at the time of the survey using GPS siting and measurement from site features where possible. As such, the plotted locations of these trees, groups and hedges cannot therefore be considered to be wholly accurate

**Root Protection Areas (RPAs):**

RPAs  
 Area(s) of Ground Around Trees that Should be Protected Throughout Development Works with Protective Fencing to form a Construction Exclusion Zone

Note: Trees or hedges with their Identification numbers labelled in gray are recommended for removal in the context of the development

**Project:**  
 CHADSWELL HALL  
 CHIPPING ROAD  
 CHAIGLEY  
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**Agent for Client:**  
 GARY HOERTY ASSOCIATES

**Title:**  
**TREE IMPACT PLAN**  
 in Relation to Proposal to Construct Agricultural Access Track

Scale: 1:500@A2  
 Date: December 2015  
 Drawn by: JK  
 Checked by: PH



**Important:** The original version of this plan was produced in colour, which is essential to the plan's interpretation and usability. As such, a monochrome copy should not be relied upon