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APP/11/1541

Bernie Harverson
arboricultural consultant



# ARBORICULTURAL METHOD STATEMENT

*for*

**20 Bacon Lane, Hayling Island**

*- prepared on behalf of **Daryl Cornelius** -*


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# ARBORICULTURAL METHOD STATEMENT (AMS)

| | |
|---|---|
| **Client** | **Daryl Cornelius** |
| **Site Location** | **20 Bacon Lane, Hayling Island** |
| **Project Arboricultural Consultant:** | Bernie Harverson *M.Arb.,* |
| **Date Report Prepared** | October 2011 |

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| 1 | INTRODUCTION & CLIENTS BRIEF |
| 2 | DOCUMENT DISCLOSURE STATEMENT |
| 3 | TREE SURVEY & ROOT PROTECTION SCHEDULE |
| 4 | PRE – DEVELOPMENT TREE WORK |
| 5 | ARBORICULTURAL METHOD STATEMENT |
| 6 | MONITORING & SITE SUPERVISION |
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| BH2 | Tree Survey Notes & Flow Diagram |
| BH3 | Tree Protection Measures |
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## 1.0 INTRODUCTION & CLIENTS BRIEF

1.1 My client – **Daryl Cornelius** is the owner of the property at **20 Bacon Lane, Hayling Island** and seeks approval to redevelop the site re-modelling and adding a room above the existing garage and a link to the main house all at first floor level.

1.2 There are three mature trees in close proximity to this site which will need to be fully respected and protected during the build process.

1.3 I have been commissioned to consider the impact that development might have on the existing trees and advise on a management strategy.

1.4 I am instructed to prepare a **Method Statement & Tree Protection Plan -** based on the planning layout submitted to me by **PWP Architects.**

1.5 My work is to be compiled in accordance with the Recommendations contained within BS5837:2005.

## 2.0 DOCUMENT DISCLOSURE STATEMENT

2.1 A base plan has been provided by the clients **Architects – PWP Architects.**

2.2 A copy of the Planning Layout drawing as prepared at **1:100 (at A1) scale ref: Proposed Elevations, Sections & Plan – 4853/1251/RevA. October 2011 and also Site Layout Plan – 4853/1151/RevA. October 2011** have been provided to me for the purposes of my work and I rely totally on the accuracy of these drawings.

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## 3.0 TREE SURVEY & ROOT PROTECTION SCHEDULE

3.1 A tree survey has been prepared in accordance with BS5837 recommendations.

| No | Species | Ht m | S / M | Trnk Dia mm | Brch Sprd m | Gr Cl m | Age | F | Condition Comments | Preliminary Management Recommendations | Rem Con in yrs | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Pedunculate Oak *Quercus robur* | 14 | S | 800 | N6 E8 S6 W9 | 3 | M | G | Off site tree-bifurcated at 2.5m from ground-crown lifted on north side in particular-previously thinned out-small diameter deadwood throughout | No works required at this time | >40 | A1 |
| 2 | Common Beech *Fagus sylvatica* | 16 | S | 650 | N6 E7 S4 W3 | 3 | M | F | Off site tree-suppressed on west side-previously heavily topped out and reduced and reshaped overall | No works required at this time | >40 | B1 |
| 3 | Pedunculate Oak *Quercus robur* | 14 | M | 1300 | N5 E3 S6 W4 | 6 | M | P | Bifurcated at 1m from ground-epicormics on trunk-decay in old pruning wounds-cavities in old pruning wounds | No works required at this time | >40 | C1 |

3.2 From the data gathered I have prepared a Tree Root Protection Schedule in accordance with BS5837 recommendations.

| Tree No. | Tree Species | Grade | Single or Multi Stem | Diam mm | BS5837:2005 Table2-Radial Protect. Zone m | BS5837:2005 Table2- Root Protect. Area $m^2$ | Is An Offset Required To Cater For Existing Rooting Pattern Restrictions |
|---|---|---|---|---|---|---|---|
| 1 | Pedunculate Oak *Quercus robur* | A1 | S | 800 | 9.6 | 289.6 | NO – there are constraints all around this tree which cancel each other out |
| 2 | Common Beech *Fagus sylvatica* | B1 | S | 650 | 7.8 | 191.2 | NO – there are constraints all around this tree which cancel each other out |
| 3 | Pedunculate Oak *Quercus robur* | C1 | M | 1300 | 13.0 | 531.0 | NO – there are constraints all around this tree which cancel each other out |

3.3 The proposed new garage extension and main building link is shown to be positioned at first floor level with no ground excavation works required.

3.4 The issues on this project therefore relate to the logistics of construction and some ground protection measures associated with scaffolding.

## 4.0 PRE-DEVELOPMENT TREE WORK

4.1 There is no above ground impact apart from the possible need to shorten back one small diameter low branch from the Beech tree to avoid conflict with scaffolding.

4.2 Undertake all development facilitation tree pruning works as listed in the following Tree Works Schedule prior to any other site works being carried out.

| No | Species | Tree Works Recommended |
|---|---|---|
| 1 | Pedunculate Oak<br>*Quercus robur* | • No works required at this time. |
| 2 | Common Beech<br>*Fagus sylvatica* | • Shorten back the lowest branch that overhangs the boundary line towards the garage guttering.<br>• Make the final cut adjacent to a living growth point. |
| 3 | Pedunculate Oak<br>*Quercus robur* | • No works required at this time. |

## 5.0 ARBORICULTURAL METHOD STATEMENT

### 5.1 Pre -Construction Phase –

- Undertake all of the tree works listed at 4.0 above.
- Lay butted together scaffold boards alongside the west elevation of the existing garage over the current loose aggregate wearing course – then construct scaffolding over this.

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### 5.2 Construction Phase

**Specific Actions:**

- There is no excavation work and both trees T1 and T2 are off site so there will be no need for Tree Protection fencing on this project.
- Lay ground protection in accordance with Figure 3 & Section 9.3 of BS5837 (see at appendix BH3) around the west side footprint of the garage building to protect the ground that the scaffolding will be erected over. Laying of plastic sheeting across this area prior to the laying of scaffold boards and erection of the scaffolding itself will ensure that any contaminant spillage is contained and cannot affect the tree roots.

- The existing block pavers comprising the wearing course for the main drive can be used to store materials and lift them to the working area above the garage roof by machine lift.
- Machinery cannot access the west side of the tree because of the tight working space so only pedestrian access can occur in this area.
- Care will need to be taken to avoid damage to the low branches of the Oak (T1) as machinery accesses the site and also operates with any slewing arm and it is recommended that [with the tree owners] permission the trunk and low branches are heavily wrapped with hessian to protect them ( it may be necessary to remove epicormic shoots to facilitate this).
- **ALL** machine operators should undergo an induction session prior to being allowed to work on site, where the Method Statement is explained to them and a copy pinned up in the site office for their reference.
- Building works may now proceed with caution exercised when working close to the trees.

**Generic Actions:**

- It is suggested that clear and concise points of contact and lines of communication are established prior to commencement of the works on site including:- Arboricultural Consultant; Local Authority Tree Officer; Local Authority Planning Officer; Site Manager and Foreman
- It is advised that the Site Manager establishes his own listing of contact details at the Pre-Start site meeting and pins this up in site office for all to refer to.

## 6.0 MONITORING & SITE SUPERVISION

- It is recommended in BS5837:2005 that either an arboriculturist or a person suitably experienced in the subject is retained to advise on all tree related aspects of site monitoring and supervision and it is the local authority's responsibility to make this a condition of planning approval with the said Condition ideally requiring a set schedule of operations and timings prior to undertaking works on site.
- In this instance this is a very simple project with minimal risk to retained trees and there is no real need for site monitoring and supervision as there is no tree protective fencing to review and no excavation works to monitor.

## 7.0 CONCLUSIONS

- No tree removal is required to facilitate development as proposed.
- Only low very small diameter branch from the Beech needs to be shortened back.
- The low branch of the Oak across the main drive would ideally need to be protected with hessian wrap to avoid machinery damage.
- This is therefore in my opinion a fully supportable scheme in arboricultural terms.

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# BH 1

## - Tree Survey/Constraints & Protection Plan

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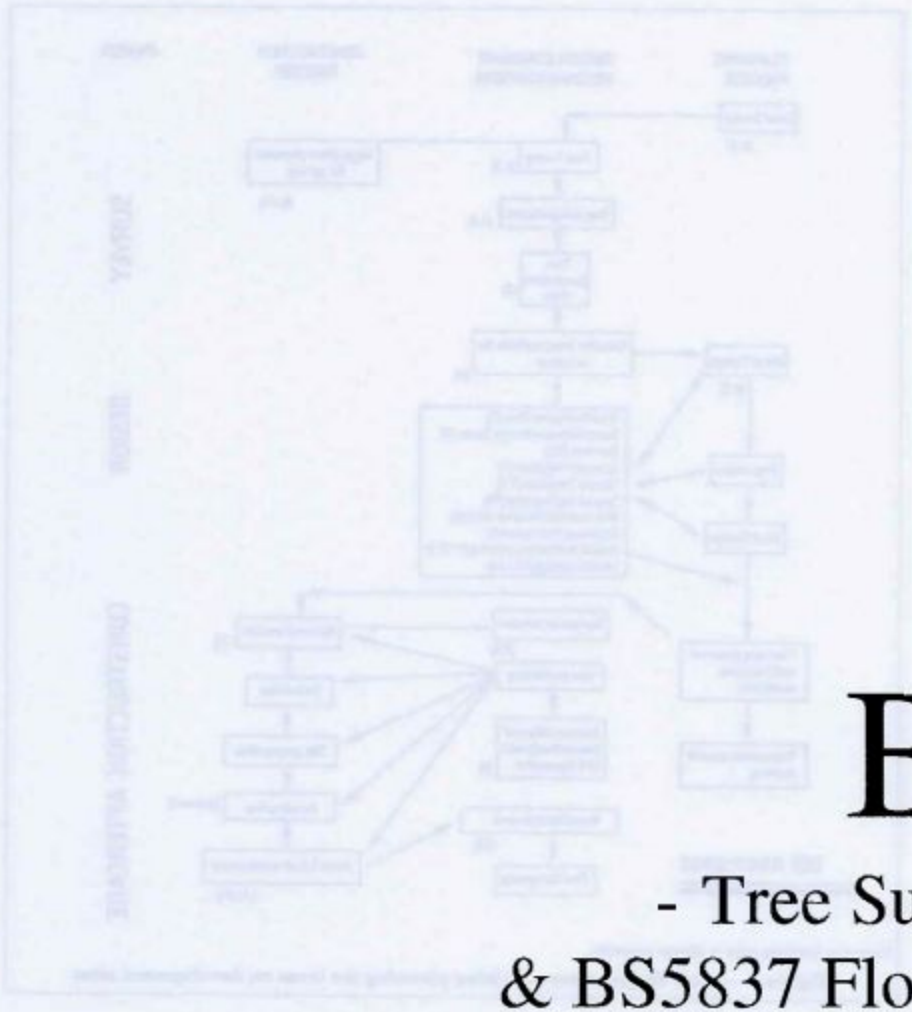

# BH 2

## - Tree Survey Notes & BS5837 Flow Diagram

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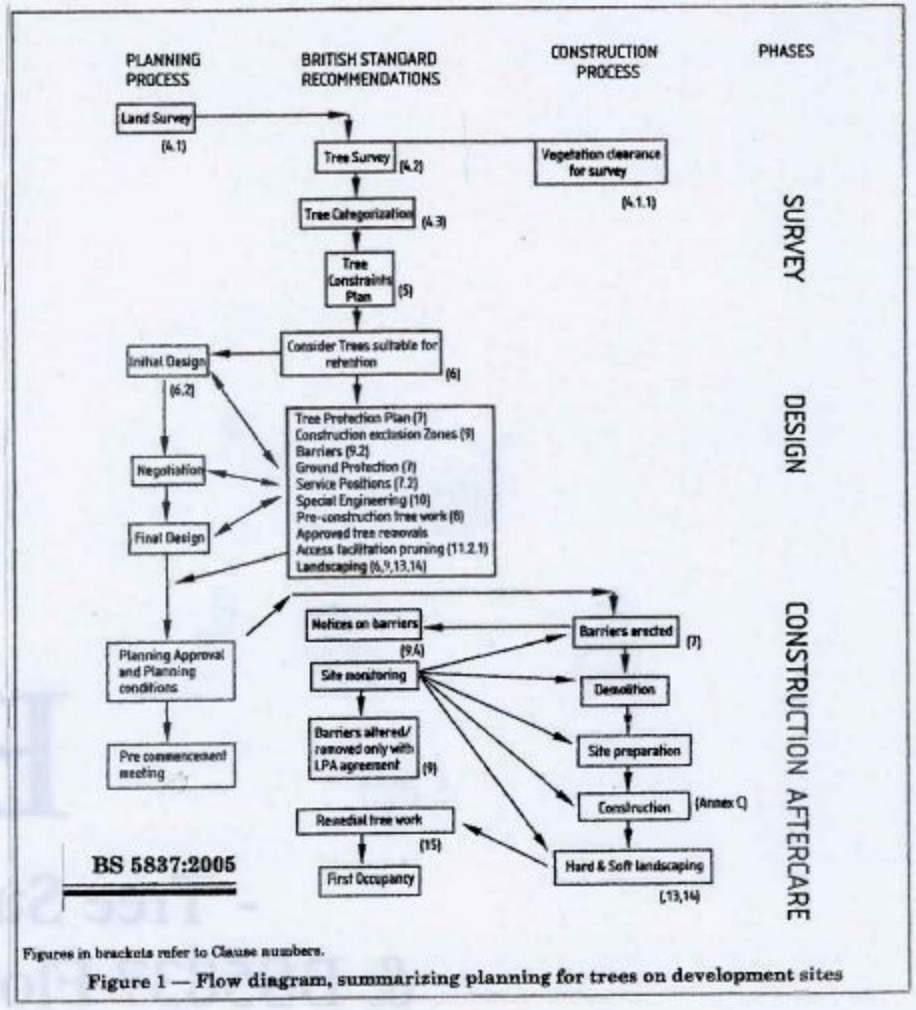


Figures in brackets refer to Clause numbers.

**Figure 1 — Flow diagram, summarizing planning for trees on development sites**

These **TREE SURVEY NOTES** have been prepared in accordance with the recommendations of **British Standard 5837:2005** and define the criteria for pre – development tree surveys.

- Each tree/group has been allocated a unique number (**No.**). Where specifically commissioned small durable numbered metal tags can be applied to each tree/group surveyed.
- The tree species (**Species**) is provided in both English and Latin formats.
- Height assessments (**Ht**) are estimated in metres. This will be adequate for the majority of cases, but where accurate heights become a critical issue it may be necessary to return to site, as a separately commissioned exercise, to collect accurate measurements with the aid of optical instruments.
- Trunk/stem diameters (**Trunk Diam**)are measured in millimetres at 1.5m above ground level and denoted as **S** single stemmed trees or **M** for multi-stemmed trees which are measured immediately above the root flare.
- Radial crown spread assessments (**Brch Sprd**) are estimated in metres from the centre of the trunk/group to each of the four primary points of the compass (**N**-north; **E**-east; **S**-south and **W**-west) in order to achieve a representation of the crown shape which will be recorded on the accompanying tree survey plan. These provide a general guide as to the main bulk outline of a tree/groups crown but are not tape measured dimensions. These would only be undertaken as part of a separately commissioned exercise, where precise dimensions are critical to the project at hand.
- The average ground clearance (**Grd Cl**) is estimated and shown in metres.
- An assessment of a tree/groups age (**Age**) class is made in terms of its site specific maturity as part of the surrounding landscape, taking into account its overall shape and form in that setting, and is recorded thus :-

| | | |
|---|---|---|
| **Y** | - | Young tree/group |
| **MA** | - | Middle – aged tree/group |
| **M** | - | Mature tree/group |
| **OM** | - | Over – mature tree/group |
| **V** | - | Veteran tree/group |

- An assessment of a tree/groups overall physiological condition (**Fm**)is recorded as :-

| | | |
|---|---|---|
| **G** | - | Good |
| **F** | - | Fair |
| **P** | - | Poor |
| **D** | - | Dead |

- Data on the structural condition (**Condition Comments**) of the tree/group is provided to give an indication of its visual appearance and any significant health and safety issues.
- Details of necessary tree works required at the time of survey is given under the heading – **Preliminary Management Recommendations**
- An estimate of a tree/groups future life expectancy (**Rem Cont**) is made and is recorded thus :-
  **1-10; 10-20; 20-30; 30-40** or **>40** years.
- The category grading (**Cat**) for each tree/group is assessed according to the criteria provided within **BS5837:2005.** The assessment is made of the tree/group in its current condition and within the environment encountered bearing in mind its suitability for retention as part of any future proposed development; although the exact layout detail of any specific scheme will not be known at the time of surveying. The trees have been classified into one of four categories and colour coded as BS5837 recommends - **R** (dark red); **A** (light green); **B** (mid-blue) and **C** (grey).Please note that the numerical sub-categories which are also applied are for guidance only and do not carry any cumulative or increased value for the tree/group. This colour coding scheme will be applied to all drawings provided.

| TREES FOR REMOVAL | | | | |
|---|---|---|---|---|
| **Category and definition** | **Criteria** | | | **Colour on plan** |
| **Category R**<br>Those in such a condition that any existing value would be lost within 10 years and which should, in current context, be removed for reasons of sound arboricultural management. | • 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 **R** category trees ( i.e. where, for whatever reason the loss of companion shelter cannot be mitigated by pruning)<br>• Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline<br>• Trees infected with pathogens of significance to the health and/or safety of other trees nearby ( e.g. Dutch Elm Disease), or very low quality trees suppressing adjacent trees of better quality | | | **Dark Red** |
| **TREES TO BE CONSIDERED FOR RETENTION** | | | | |
| | **Criteria – Subcategories** | | | |
| | **1** | **2** | **3** | |
| **Category A – Those of high quality and value:** in such a condition as to be able to make a substantial contribution (a minimum of 40 years is suggested) | Trees that are particularly good examples of their species, especially if rare or unusual, or essential components of groups, or of formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue) | Trees, groups or woodlands which provide a definite screening or softening effect to the locality in relation to views into or out of the site, or those of particularly visual importance (e.g. avenues or other arboricultural features assessed as groups) | Trees, groups or woodlands of significant conservation, historical, commemorative or other value ( e.g. veteran trees or wood-pasture) | **Light Green** |
| **Category B – Those of moderate quality and value:** in such a condition as to make a significant contribution (a minimum of 20 years is suggested) | Trees that might be included in the high category, but are downgraded because of impaired condition(e.g. presence of remediable defects including unsympathetic past management and minor storm damage) | Trees present in numbers, usually as groups or woodlands, such that they form distinct landscape features, thereby attracting a higher collective rating 3than they might as individuals but which are not, individually, essential components of formal or semi-formal arboricultural features (e.g. trees of moderate quality within an avenue that includes better, A category specimens), or trees situated mainly internally to the site, therefore individually having little visual impact on the wider locality | Trees with clearly identifiable conservation or other cultural benefits | **Mid Blue** |
| **Category C – Those 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 150mm | 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 |
| **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 | | | | |

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# BH 3

## - Tree Protection Measures

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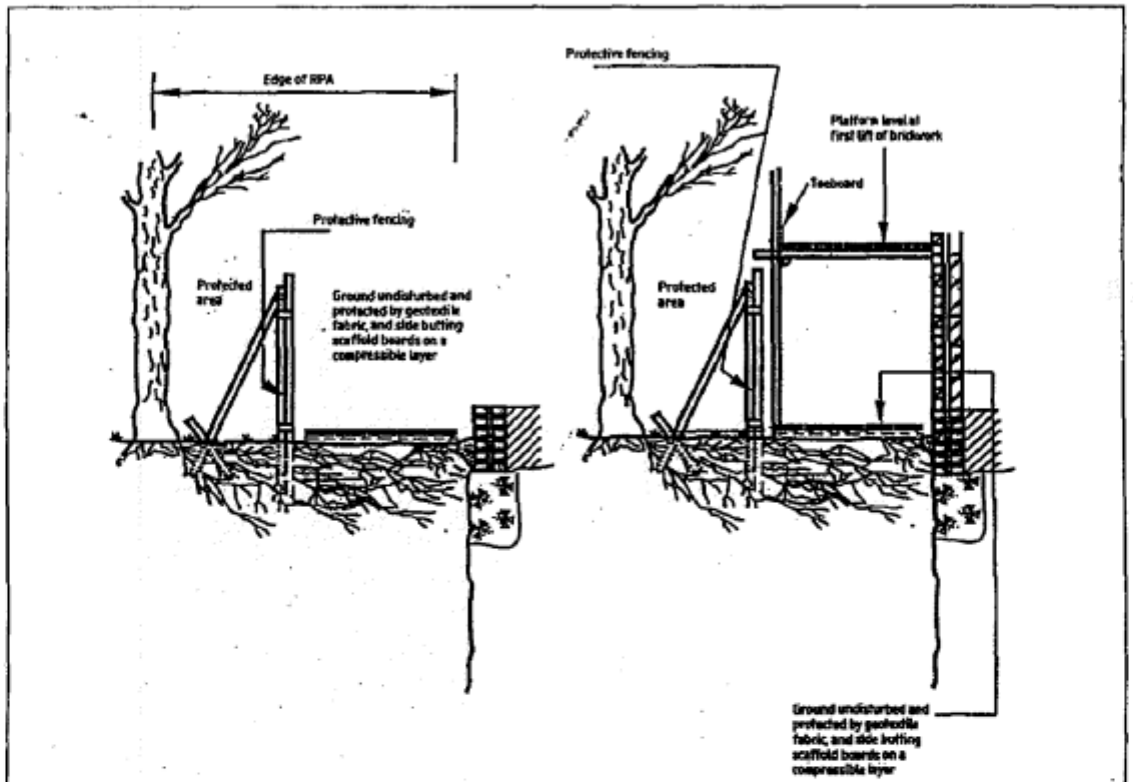


**Figure 3 — Scaffolding within the RPA**

**Extract taken from BS5837:2005**

### 9.3 Ground Protection

**9.3.1** Where it has been agreed during the design stage, and shown on the tree protection plan, that vehicular or pedestrian access for the construction operation may take place within the root protection area (RPA), the possible effects of construction activity should be addressed by a combination of barriers and ground protection. The position of the barrier may be shown within the RPA at the edge of the agreed working zone, but the soil structure beyond the barrier to the edge of the RPA should be protected with ground protection.

**9.3.2** For pedestrian movements within the RPA the installation of ground protection in the form of a single thickness of scaffold boards on top of a compressible layer laid onto a geotextile, or supported by scaffold, may be acceptable (see Figure 3).

**9.3.3** For wheeled or tracked construction traffic movements within the RPA the ground protection should be designed by an engineer to accommodate the likely loading and may involve the use of proprietary systems or reinforced concrete slabs (see **11.8 and 11.9**).

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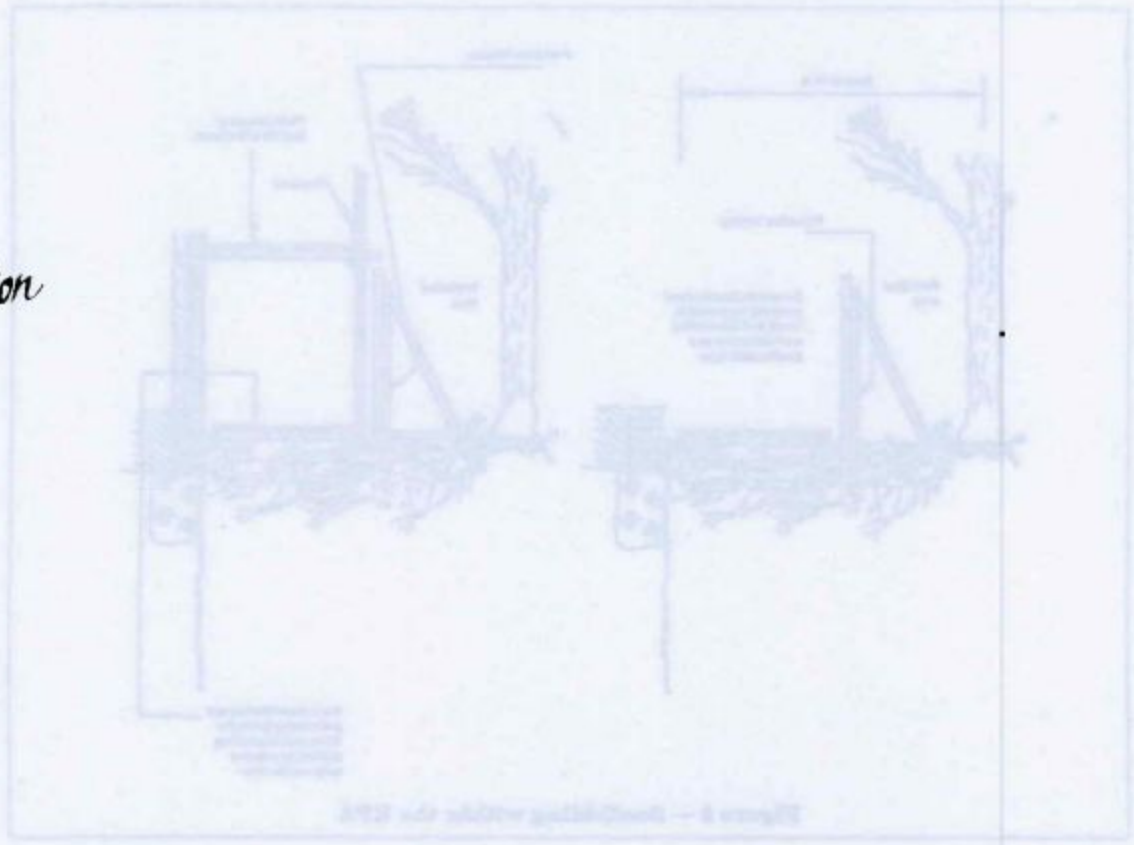

# BH 4

## - Qualifications & Experience

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## *QUALIFICATIONS AND EXPERIENCE*

- My name is Bernie Harverson and I am a self employed independent arboricultural consultant in private practice. I take instructions primarily in the South of England but also on occasions work nationwide and abroad and have offices at : –
  3 Foxcombe Cottages, South Harting, West Sussex GU31 5PL and also at Cedar Court, 5 College Street, Petersfield GU31 4AE
- I hold the following arboricultural qualification - **Master of Arboriculture** (Royal Forestry Society – 1976)
- I have over **forty** years of practical and managerial experience in the arboricultural industry including periods in both the public and private sectors.
- My Local Government sector experience comprises one year as a tree surgeon with Brighton Parks and nine years spent in Arboricultural Officer posts with both Westminster City Council and Portsmouth City Council
- My past practical experience in the private sector includes two years at Tilhill Forest Nursery and over ten years for various companies as a Climbing Arborist/Tree Surgeon.
- Managerial work in the private sector includes two years as manager of Beechings tree surgery company and twelve years with CBA Trees as an Arboricultural Consultant.
- As an independent self employed Arboricultural Consultant I now provide a comprehensive range of services including :-
  tree surveys, appraisals, assessments and inspections with particular reference to planning and development and tree safety audits with a service offered as a climber to undertake full climbing inspections to better understand the condition of a given tree before prescribing a management strategy.
- I also undertake litigation work appearing as an Expert Witness in Court Actions and at Planning Appeals, Hearings and Public Local Inquiries.

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