



ARBORICULTURAL METHOD STATEMENT

Alderbury, Church Hill, Pulborough

-prepared on behalf of Mr J Dixon –

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1.0 INTRODUCTION & CLIENTS BRIEF

- 1.1 I am instructed on this project by **Mr J Dixon** who is the owner of **Alderbury, Church Hill, Pulborough**
- 1.2 My clients wish to redevelop the site by adding two holiday accommodation units into the rear garden.
- 1.3 There are on and off site trees which will need to be catered for in this process.
- 1.4 I have been commissioned to prepare a report to satisfy the arboricultural aspects of this project in accordance with BS5837:2012 recommendations.

2.0 DOCUMENT DISCLOSURE STATEMENT

- I have been provided with copies of **R E Consultancy Ltd.** scaled drawings showing the existing and new layouts in relation to the trees :-
 - Existing Site Plan – **2895/23/01-1:500 @ A1- July23**
 - Proposed Site Plan – **2895/23/02-1:500@A1-March 24**
- these drawings have been provided to me for the purposes of my work and I rely totally on their accuracy in terms of tree locations; applying crown spreads and setting out protective fencing.

3.0 TREE SURVEY & ROOT PROTECTION SCHEDULES & IMPACT ASSESSMENT

3.1 I visited the site on **28th February 2024** to undertake a tree survey exercise in accordance with BS5837:2012 recommendations (see also the explanatory tree survey notes [at appendix BH1](#)).

Tree No.	Species	Ht m	Dia m mm	Brch Sprd m	GC m	LS	Comments	Preliminary Management Recommendations	Rem Con yrs	Cat
1	Monterey Cypress <i>Cupressus macrocarpa</i>	12	800 550	N 3 E 4 S 11 W 8	2	M	Atop a steep soiled bank-bifurcated at ground level-suppressed to north side by other trees-small and large diameter deadwood-previously heavily topped out.	Not under clients control	10-20	C1
2	Common Ash <i>Fraxinus excelsior</i>	10	500 200 200	N 1 E 8 S 1 W 1	2	EM	On sloping ground-Ivy smothering base, trunks and through crown-multi stemmed at ground level-leans heavily east-low branching habit on east side-poor quality tree overall.	Not under clients control	10-20	C1
3	Sycamore <i>Acer pseudoplatanus</i>	14	220 210 200	N 1 E 5 S 2.5 W 5	5	EM	Ivy smothering base, trunk and through crown-multi stemmed at ground level-crown shape dictated by group pressures-small diameter deadwood throughout-poor quality tree overall.	Sever Ivy at ground level	30-40	C1
4	Sycamore <i>Acer pseudoplatanus</i>	15	380 270 250	N 5 E 4 S 7 W 5	2	EM	Dead Ivy clinging to trunks- small diameter deadwood throughout-low branching habit to south side.	Remove dead Ivy for safety reasons	>40	B1
5	Sycamore <i>Acer pseudoplatanus</i>	14	300 240	N 3 E 4 S 6 W 2	3	EM	Bifurcated at ground level-suppressed-small diameter deadwood-crown shape dictated by group pressures-low crown density-poor quality tree overall.	No works required at this time	10-20	C1
Group 1	Domestic Apples <i>Malus spp.</i>	2.5	75 to 100	N 1 E 1 S 1 W 1	0.5	Y	Reduced and reshaped for fruit production purposes.	No works required at this time	30-40	B2

3.2 A Tree Root Protection Schedule has been prepared in accordance with BS5837:2012 recommendations (see Plans BJH 01 & 02 at [appendix BH2](#))

Tree No.	Tree Species	Cat	Diam mm	BS5837:2012 Table D1 Radial Protection Zone m	BS5837:2012 Table D1 Polygon Area m ²
1	Monterey Cypress <i>Cupressus macrocarpa</i>	C1	800 550	11.6	426
2	Common Ash <i>Fraxinus excelsior</i>	C1	500 200 200	6.9	149
3	Sycamore <i>Acer pseudoplatanus</i>	C1	220 210 200	4.4	60
4	Sycamore <i>Acer pseudoplatanus</i>	B1	380 270 250	6.3	127
5	Sycamore <i>Acer pseudoplatanus</i>	C1	300 240	4.6	67
Group 1	Domestic Apples <i>Malus spp.</i>	B2	75 to 100	0.9	3
				1.2	5

4.0 IMPACT ASSESSMENT & TREE PROTECTION MEASURES RECOMMENDED

4.1 The finalised planning layout drawing has been provided to me and an assessment made as to the viability of retaining trees as part of this layout in order that they meet the RPZ requirements of BS5837 - the data is presented here in tabular format:-

Key: **NO-RSAM** = Remove for sound arboricultural management reasons regardless of any redevelopment proposals **NO-RTFD** = Remove to facilitate development

YES = Yes can be retained and fully protected

YES (1) = Yes can be retained subject to mitigation measures being applied

Tree No	Species	Cat	Stem Diam mm	BS5837:2012 Table D1 Protection Zone m	BS5837:2012 Table D1 Protection Area m ²	Distance from Site Features & Comments (see key above)	Can Tree Be Retained
1	Monterey Cypress <i>Cupressus macrocarpa</i>	C1	800 550	11.6	426	8.5m to corner of new building – but this is 1m lower down levels wise behind an existing wall	YES
2	Common Ash <i>Fraxinus excelsior</i>	C1	500 200 200	6.9	149	5m to corner of new building – but this is 1m lower down levels wise behind an existing wall	YES
3	Sycamore <i>Acer pseudoplatanus</i>	C1	220 210 200	4.4	60	12.5m to corner of new building	YES
4	Sycamore <i>Acer pseudoplatanus</i>	B1	380 270 250	6.3	127	5m to corner of new building	YES (1)
5	Sycamore <i>Acer pseudoplatanus</i>	C1	300 240	4.6	67	1.5m to corner of new building	YES (1)
Group 1	Domestic Apples <i>Malus spp.</i>	B2	75 to 100	0.9 1.2	3 5	2.5m to front of new building Under footprint of new building	YES For two trees NO-RTFD For two trees

Summary

- 4.2 **Trees 1 & 2** - can be fully protected in accordance with BS5837 recommendations by virtue of the fact that they are on raised ground and there is a boundary wall within 2-3m of their trunk that is at least 1m deeper than the soil levels around the tree bases. Thus the wall acts as protective fencing in this case.
- 4.3 **Tree 3** - is well clear of redevelopment proposals and can be fully protected in accordance with BS5837 recommendations.
- 4.4 **Trees 4 & 5** – both have RPZ's which overlap the proposed location for the new building (Unit 2) and therefore mitigation measures must be employed to ensure minimal root disturbance and ensure that these trees survive the development process in a safe and healthy condition. Please see detailed methodology at Section 6.7 of this report.

5.0 RECOMMENDED TREE WORKS

No	Species	Tree Works Recommended
1	Monterey Cypress <i>Cupressus macrocarpa</i>	Not under the clients control
2	Common Ash <i>Fraxinus excelsior</i>	Not under the clients control
3	Sycamore <i>Acer pseudoplatanus</i>	Sever Ivy at ground level
4	Sycamore <i>Acer pseudoplatanus</i>	Remove dead Ivy for safety reasons
5	Sycamore <i>Acer pseudoplatanus</i>	No woks required at this time.
Group 1	Domestic Apples <i>Malus spp.</i>	- Continue to prune for fruit production purposes - Fell the two trees which are under the footprint of Unit 2.

6.0 METHOD STATEMENT

Generic Protection Measures

- 6.1 Erect the protective fencing as specified and shown on the **Tree Protection Plan BJH03/04** at [appendix BH3](#).
- 6.2 Barriers are to be 'Fit For Purpose' to exclude construction activity and must be maintained to ensure that they remain rigid and complete and in the original setting out positions.
- 6.3 A Pre-Commencement Meeting will need to be scheduled to inspect and to verify that the Protective Fencing [and ground protection if required] measures are adequate ***before any demolition or construction works take place out on site.***
- 6.4 The following prohibitions shall apply within the area enclosed by the Tree Protection Fencing [**Construction Exclusion Zone**]:-
- **No** mechanical digging or scraping is to be carried out within the site fenced off zone.
 - **No** storage of plant, equipment or materials within the site fenced off zone.
 - **No** vehicular or plant access within the site fenced off zone.
 - **No** fire lighting within the site fenced off zone.
 - **No** handling, discharge or spillage of any chemical substance, including cement washings within the site fenced off zone.
 - **No** action likely to cause localised water-logging is to be carried out within the site fenced off zone.
 - **No** change in ground levels is to occur within the site fenced off zone.
- 6.5 All site works storage areas and compounds/welfare units/toilet blocks and any mixing areas are to be located outside the fenced off zone and ideally positioned over impervious surfaces or over special catchment areas such that any leakage will be captured and cannot leak into the soil causing contamination.
- 6.6 The full details of the proposed utility service links have not been made available to me at this time but there should be no need to install these within the fenced off zones. However, if this situation changes and in the event that there is any conflict with a retained trees RPZ then a separate Mini Method Statement would need to be submitted to cover this work.

Site Specific Protection Measures

6.7 **Trees 4 & 5** require mitigation measures to be applied :-

- Erect the protective fencing.
- Insert the screw piles at spacings specified by a Structural Engineer relative to the building loadings.
- Machinery may be used for this purpose provided that it does not work over the tree root RPZ.
- Having screwed the piles into position construct an above ground wooden former and then insert a geotextile membrane and infill with concrete and appropriate reinforcing - thus binding it to the screw piles and forming the 'No Dig' reinforced floor for the new building. Allow for the insertion of threaded bolts that will secure into the base of the new building.
- Erect the new building and bolt this to the base.

7.0 SITE MONITORING & SUPERVISION

- 7.1 A Pre-commencement site meeting will need to be scheduled to take place between the development teams arboricultural consultant and the site manager and client representative where the protective fencing and any ground protection measures would be inspected to verify that they are 'Fit For Purpose' as shown on the **Tree Protection Plan** at [appendix BH3](#).
- 7.2 Once the tree protection measures are safely in place there will no need for further site monitoring or supervision visits on this project.
- 7.3 This is an example of the format for the **Site Monitoring Schedule** that would be prepared ready for submission to the local authority planners :-

Schedule Of Site Monitoring & Supervision for – Alderbury, Church Hill, Pulborough

- In accordance with the Arboricultural Method Statement Report - 1347.bjh.Mar24 & Tree Protection Plan - BJH 03/04

Date of Inspection	Item	In Attendance	Notes/Observations From Inspection	Details Of Any Follow Up Action Required
tba	Pre-Commencement Checks : Protective Fencing	Site Owners Representative & Project Arboricultural Expert	• The protective fencing was inspected and I can confirm that the tree protection measures carried out are 'Fit For Purpose' and meet with BS5837:2012 recommendations.	•

tba	Monitoring Screw Pile insertion works	Site Owners Representative & Project Arboricultural Expert	•	•
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8.0 CONCLUSIONS

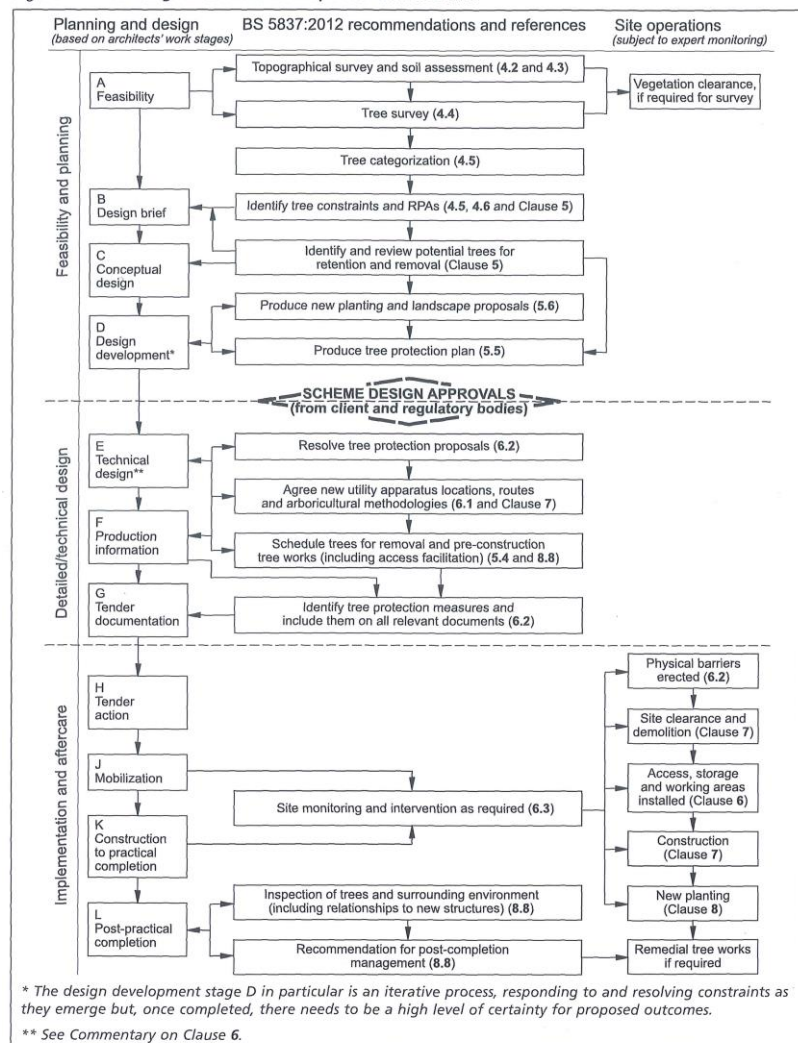
- This development layout will require some mitigation measures to ensure that **trees 4 & 5** survive the development process in a safe and healthy condition.
- Extensive mitigation measures in the form of screw piling have been specified within this report to cover this matter.
- Provided that the methodology set out in this report is strictly adhered to in a carefully considered and phased and supervised manner then I would not foresee any detrimental impact taking place that might undermine the ongoing health and stability or visual amenity value of those trees shown for retention.



BH 1

Figure 1 - Flow Diagram
& Tree Survey Notes

Figure 1 The design and construction process and tree care



TREE SURVEY NOTES

These Tree Survey Notes have been prepared in accordance with the recommendations of **British Standard 5837:2012** and they define the criteria for pre –development tree surveys.

- Each tree/group/hedge/shelterbelt/woodland has been allocated a unique number (**No.**), where specifically requested and appropriate fees are agreed small durable numbered metal tags can be applied to each tree/group surveyed.
- The tree species (**Species**) is provided in both English and Latin name 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 (**Diam**) are measured in millimetres **at 1.5m above ground level** – where the tree is inaccessible the diameter is estimated as indicated by suffix #
- 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 shown 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.
- Both the canopy ground clearance (**GC**) and the height & compass direction of the lowest major branch (**LMB**) are estimated and shown in metres
- An assessment of a tree/groups 'life stage' (**LS**) 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; **SM** - Semi-Mature tree/group; **EM** - Early-Mature tree/group;
M – Mature tree/group; **OM** - Over – mature tree/group
- Data on the structural condition (**Condition Comments**) of the tree/group is provided to give its visual appearance and any significant health and safety issues.
- Details of any recommended tree works required at the time of survey is given under the heading – **Preliminary Management Recommendations**.
- An estimate of a tree/groups remaining contribution in years (**RC**) is made and is recorded thus :-
0-5; 5-10; 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 **BS5837:2012**. 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 :- **U** (dark red); **A** (light green); **B** (mid-blue) and **C** (grey). Please note that suffixed numerical sub-categories are also applied 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.

Table 1 – Cascade chart for tree quality assessment

Category and definition	Criteria			Colour on plan
Trees unsuitable for retention				
Category U 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.	- 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 (i.e. where, for whatever reason the loss of companion shelter cannot be mitigated by pruning) - Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline - 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 NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve.			Dark Red
Trees to be considered for retention				
	Criteria – Subcategories			
	1	2	3	
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	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)	Light Green
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in the category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value	Mid Blue
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value, and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value	Grey



BH 2

Tree Survey & Root Protection Plans

BJH 01/02

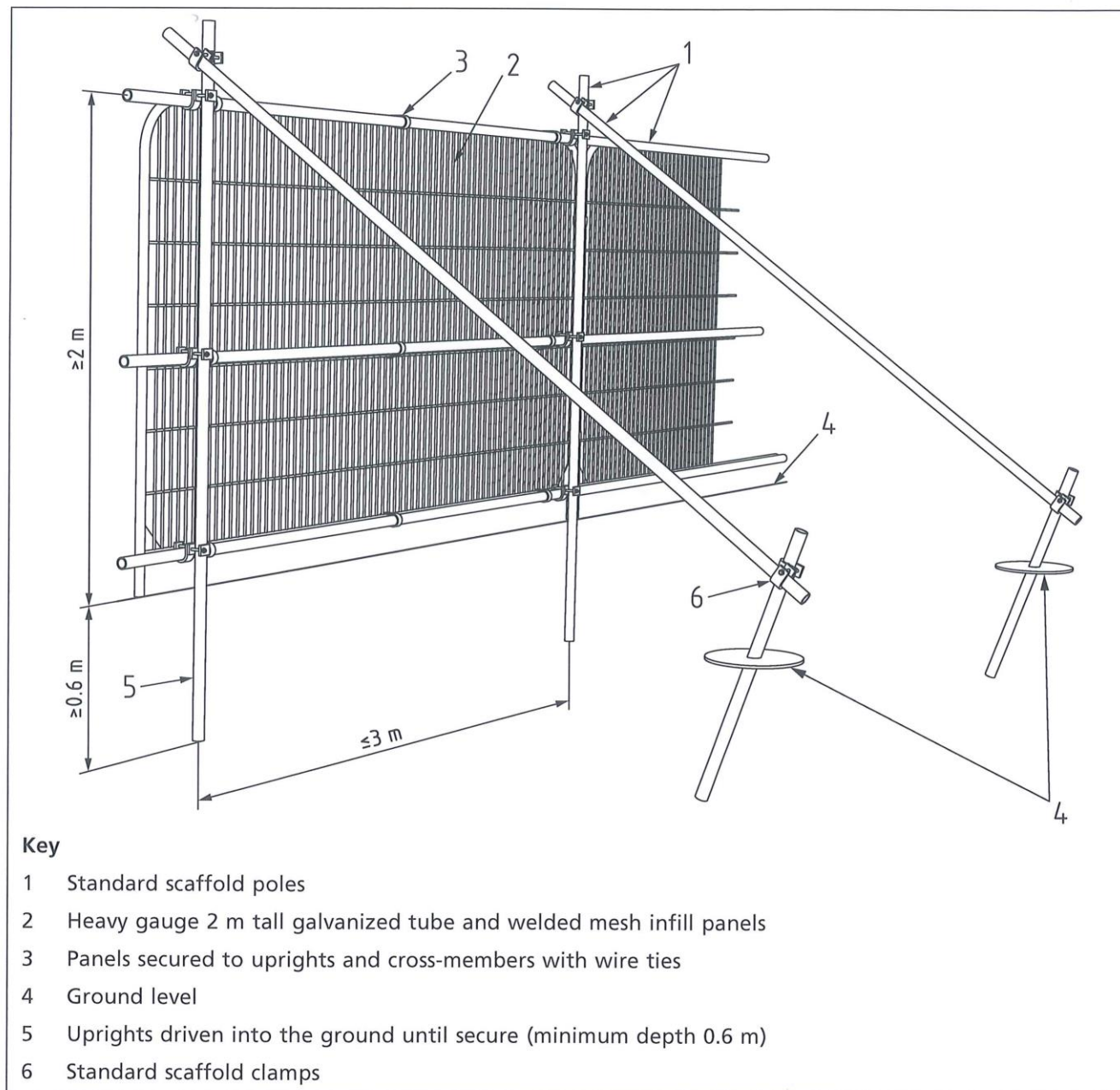


BH 3

Tree Protection Plan BJH 03/04

+ BS5837 Figure 2 Diagram

Figure 2 Default specification for protective barrier





BH 4

Qualifications & Experience



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 : –

10 Southleigh Grove, Hayling Island, Hampshire PO11 0SH

- I hold the following arboricultural qualification – **National Diploma in Arboriculture (Royal Forestry Society – 1976)**
- I have **fifty-three (53)** 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 Surgeons and twelve years with CBA Trees as Managing Director & Senior 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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