



ARBORICULTURAL METHOD STATEMENT

for

Land at Bedhampton Arts Centre, Havant

*- prepared on behalf of **Grand Holdings Ltd.** -*

- January 2013 -

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ARBORICULTURAL METHOD STATEMENT (AMS) & TREE PROTECTION PLAN (TPP)

Section	Subject Heading
1	INTRODUCTION & CLIENTS BRIEF
2	DOCUMENT DISCLOSURE STATEMENT
3	TREE SURVEY & ROOT PROTECTION SCHEDULES & IMPACT ASSESSMENT
4	ARBORICULTURAL METHOD STATEMENT & TREE PROTECTION PLAN
5	PRE – DEVELOPMENT TREE WORK & WORKING WITHIN THE RPA
6	MONITORING & SITE SUPERVISION
7	CONCLUSIONS

<u>Appendices</u>	<u>Subject</u>
BH1	Figure 1- Flow Diagram from BS5837 + Tree Survey Notes
BH2	Tree Survey & Root Protection Area Plan – BJH 01/02
BH3	Tree Retention & Removals Plan & Tree Protection Plan – BJH 03/04 (combined)
BH4	Qualifications & Experience

1.0 INTRODUCTION & CLIENTS BRIEF

- 1.1 My clients – **Grand Holdings Ltd.** are re-developing the buildings and land to the rear of Bedhampton Arts Centre.
- 1.2 I have been commissioned to consider the impact that development might have on the existing off site tree stock situated to the rear of National Tyres Depot.
- 1.3 I am instructed to prepare a **Method Statement & Tree Protection Plan** - based on the planning layout as prepared at 1:100 @ A3 scale by – **Chris Flint Associates Ltd.**
- 1.4 My work is to be compiled in accordance with the Recommendations contained within BS5837:2012.

2.0 DOCUMENT DISCLOSURE STATEMENT

- 2.1 A base plan (1:100 scale) has been provided to me by my clients architect.
- 2.2 A copy of the Planning Layout drawing as prepared at **1:100 scale - Flint Associates Ltd.** has also been provided to me for the purposes of my work and I rely totally on the accuracy of this drawing.

3.0 TREE SURVEY & ROOT PROTECTION SCHEDULES & IMPACT ASSESSMENT

- 3.1 I have visited the site and carried out a tree survey exercise in accordance with BS5837:2012 recommendations (see explanatory tree survey notes [at appendix BH1](#)).

Tree No.	Species	Ht m	Diam mm	Brch Sprd m	GC m	LMB m	LS	Condition Comments	Preliminary Management Recommendations	Rem Con yrs	Cat
1	Pedunculate Oak <i>Quercus robur</i>	8	550	N4 E4 S3 W4	1.5	2 nesw	Y	Unable to access due to the fact that it is an off-site tree- ivy smothering basal area and trunk – crown lifted to 1.5m agl with stubs remaining – small diameter dead wood throughout – fastigate habit and fair overall shape and form	Advise removal of all bicycle tyres	>40	B1

3.2 From this I have been able to prepare a Tree Root Protection Schedule in accordance with BS5837:2012 recommendations - (see Plan BJH01/02 [at appendix BH2](#))

Tree No.	Tree Species	Cat	Diam mm	BS5837:2012 Table D1 Radial Protect. Zone m	BS5837:2012 Table D1 Root Protect. Area m ²	Is An Offset Required To Cater For Existing Rooting Pattern Restrictions
1	Pedunculate Oak <i>Quercus robur</i>	B1	550	6.6	137	YES – hard surfacing and existing structures to the east side will lead to a preference for rooting to the west side into the open grassed areas.

3.3 This tree is situated within the curtilage of the National Tyres Depot with a degree of crown and root overhang of the development site.

3.4 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 RPA requirements of BS5837 - The data is presented here in tabular format:-

Key: **RSAM** = Remove for sound arboricultural management reasons

RTFD = To be removed to facilitate development

UF of. = Under footprint of development

TRANS = Transplant to an alternative location on site

Tree No	Species	Cat	Stem Diam mm	BS5837:2012 Radial Protection Area m	BS5837:2012 Polygon Area m ²	Distance from Site Features (see key above)	Can Tree Be Retained
1	Pedunculate Oak <i>Quercus robur</i>	B1	550	6.6	137	2.5m to proposed parking bays 3.3m to turning head for vehicles	YES (1)

3.5 **YES (1)**

Tree 1 – Pedunculate Oak : the RPA for this tree overlaps the proposed parking bays and turning head and therefore special measures will need to be adhered to in order that it can be retained with the full specified BS5837 RPA polygon area of 137 square metres. Please refer to Section 5.1 for full details. In addition to this there will be a close boarded fence erected within the RPA and this will require hand digging works for post holes.

4.0 PRE-DEVELOPMENT TREE WORK and WORKING WITHIN THE RPA

No	Species	Tree Works Recommended
1	Pedunculate Oak <i>Quercus robur</i>	This tree is not in my clients ownership so the following works are recommendations only and may not be actioned without the approval of the trees owners. • Remove the bicycle tyres from the crown of the tree • Tidy up the stubs which have been left from previous crown lifting works making cuts in accordance with BS3998 recommendations.

5.0 ARBORICULTURAL METHOD STATEMENT & TREE PROTECTION PLAN

5.1 Construction Phase –

Specific Actions:

- Full specification Tree Protection with back stays in accordance with BS5837 - Section 6.2.2 & Figure 2 will be erected as shown on the Tree Protection Plan BJH.04.
- Strip off the grass layer outside of the fencing back to the edge of the protective fencing with ‘Hand Digging’ only and NO use of machinery within the area shown on plan BJH.01/02 by the blue dashed line which defines the RPA for this tree.
- Rake the area to establish a basic level.
- Lay a porous geotextile membrane across the entire area and peg it down.
- Set out treated pegged board edging to define the perimeters of the area to be used for parking and as a turning head.
- Infill this zone with washed gravel or other small diameter aggregate.
- All works to erect fencing must be done at the completion of the main build phase when the car parking and landscaping works are being undertaken – at which point the protective fencing can be lowered allowing ‘hand digging’ of the post holes for the close boarded wooden fencing.

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

- The Site Manager should establish his own list of contact details at the Pre-Start site meeting and hang this up in the site office along with the Tree Protection Plan for all to refer to.
- Care must be taken when planning site operations to ensure that wide or tall loads, or plant with booms, jibs and counterweights can operate without coming into contact with retained trees.
- **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.
- In addition a copy of the Tree Protection Plan will be provided and should be pinned up in the site hut and the trees which are to be retained and protected will be pointed out to the operator and they will also be shown which trees these are on site before they start work. In this way it is hoped that unnecessary damage, by root disturbance and collision of machinery booms and operating arms with tree crowns can be avoided.

6.0 MONITORING & SITE SUPERVISION

- It is recommended in BS5837:2012 that either an arboriculturist 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 it is recommended that an Arboricultural Expert is in attendance when the area is stripped of grass and the works to the parking bays and turning head are being undertaken within the RPA of the Oak tree.

7.0 CONCLUSIONS

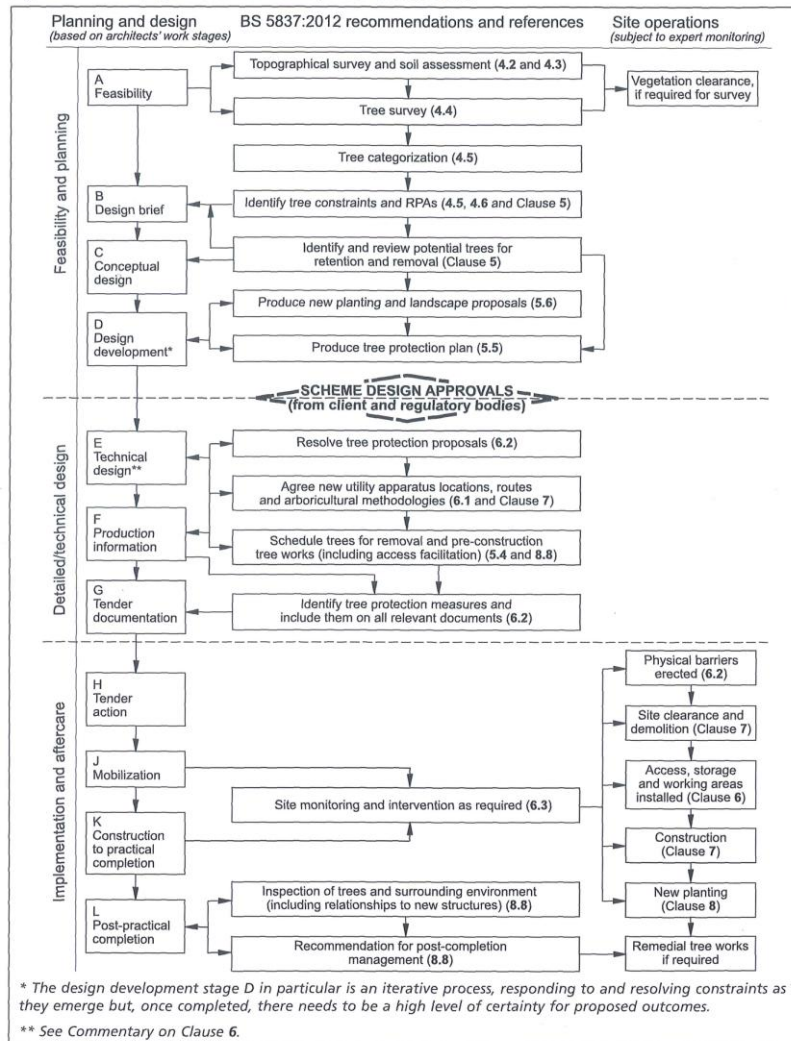
- No tree removal is required to facilitate this project.
- Provided that the methodology prescribed in this MS & TPP report is strictly adhered to (inclusive of site monitoring works) I would expect the retained tree to survive the development unscathed and to continue to grow on safely and healthily in the future.
- This is therefore in my opinion a fully supportable scheme in arboricultural terms.



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
Plan - BJH01/02



BH 3

Tree Retentions & Removals &
Tree Protection Plan - BJH03/04



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 : –
3 Foxcombe Cottages, South Harting, West Sussex GU31 5PL and also at Cedar Court, 5 College Street, Petersfield
- 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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