BJH.0298

Bernie Harverson
arboricultural consultant



ARBORICULTURAL CONSTRAINTS ASSESSMENT

for

Plot 3 – 60 Sinah Lane, Hayling Island

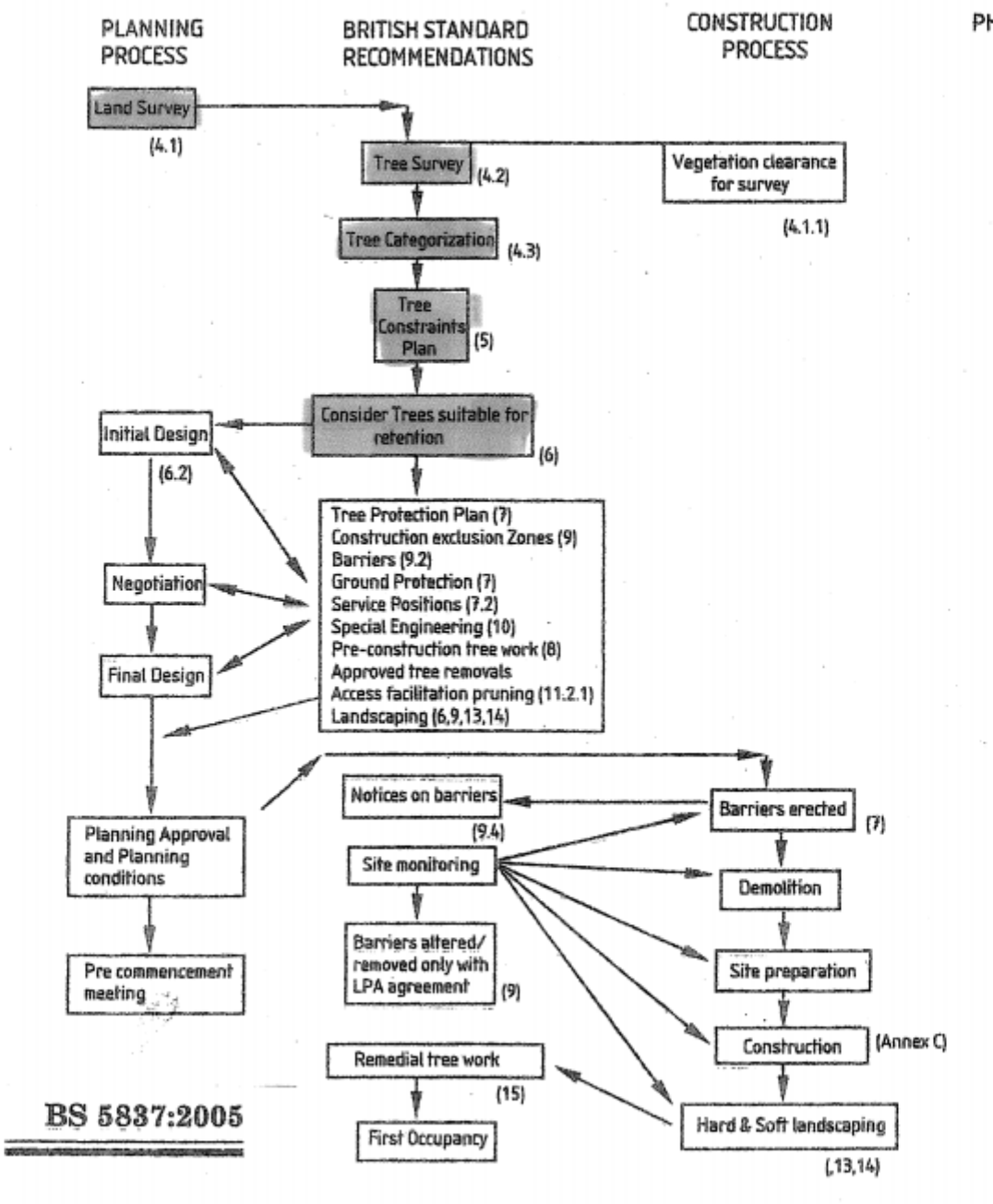
- prepared on behalf of Mr Nigel Slydell-

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Figures in brackets refer to Clause numbers.

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

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TREE SURVEY NOTES

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 (**Trnk 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 <u>are not</u> 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 (**G 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 (**F**)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.

Table 1 – Cascade chart for tree quality assessment

TREES FOR REMOVAL				
Category and definition	**Criteria**			**Colour on plan**
Category R 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) • 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 (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 than 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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TREE SURVEY SCHEDULE

Client : **Mr N Slydell**

Site Location : **60 Sinah Lane, Hayling Island**

Surveyor : Bernie Harverson *M.Arb.*

Date Surveyed : 13th January 2009

Notes:

1. **The assessment of remaining contribution in years and the category are made as viewed and may be subject to variation where the management strategy suggests further investigations/actions followed by re-surveying.**
2. **Group details/dimensions are recorded as an average.**

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	Field Maple *Acer campestre*	10	M	450	N3.5 E6 S5 W4.5	2	M	F	Ivy on main trunk-epicormics on main trunk-suppressed to the north side by other trees and telephone pole-previously crown lifted over road-old pruning wounds are occluding-service trench has been excavated within 1m of trunk and roots have been severed-trees is in a potentially unstable condition	Remove for safety reasons	0-5	**R**
2	Beech *Fagus sylvatica*	12	S	400	N5 E5 S6 W6	2	Y	G	Ivy on main trunk-dieback in upper crown centrally-service trench has been excavated within 6.7m of trunk-has been pruned to clear back from the street lamp column	No works required at this time	>40	B1
3	Sawara Cypress *Chamaecyparis pisifera*	9	S	260	N3 E3 S2 W0.5	0	MA	P	Minor deadwood throughout-suppressed to the west side-leans to the northeast	No works required at this time	10-20	C1

Gp 1	Oaks x 2 Holly x 1 Ash x 1	10	S	270	N4 E4 S4 W4	0	Y	P	Poor shape and form-merged crowns--service trench has been excavated within 4m of trunk-some roots have been severed	Reduce and reshape to help trees cope with the root loss	30-40	C2
4	Lawsons Cypress *Chamaecyparis lawsoniana*	6	S	150	N1.5 E1 S1 W1.5	0	Y	P	Suppressed by the dominant Maple and Beech-previously topped out-poor quality tree-service trench has been excavated within 1m of trunk and roots have been severed	No works required at this time	10-20	C1
5	Pedunculate Oak *Quercus robur*	12	S	450	N6 E6 S6 W6	2	M	F	Ivy on main trunk and smothering through crown- service trench has been excavated within 3m of trunk and roots have been severed	Monitor in coming seasons for any signs of dieback due to root loss	>40	B1

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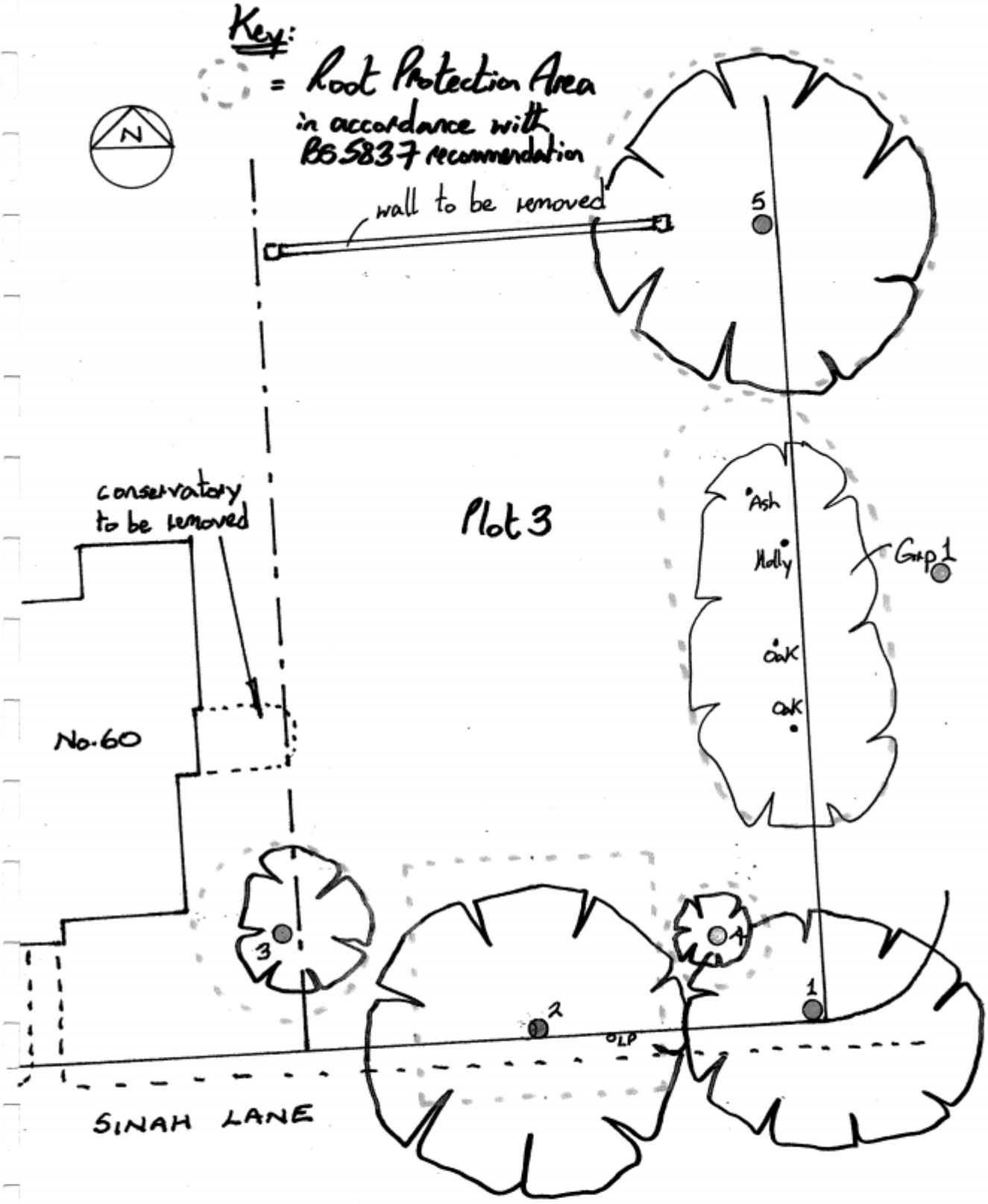
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ROOT PROTECTION AREA SCHEDULE

Client : **Mr N Slydell**

Site Location : **60 Sinah Lane, Hayling Island**

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	Field Maple *Acer campestre*	**R**	M	450	-	-	NO – this tree should be removed for safety reasons
2	Beech *Fagus sylvatica*	B1	S	400	4.8	72.4	**YES** – Raised bank and road will tend to focus rooting slightly more within the site
3	Sawara Cypress *Chamaecyparis pisifera*	C1	S	260	3.1	30.6	NO- fairly free rooting to all sides
Gp 1	Oaks x 2 Holly x 1 Ash x 1	C2	S	270	3.3	33.0	NO – would have rooted more into the site but this has been severed by the trenching operation restricting the root spread
4	Lawsons Cypress *Chamaecyparis lawsoniana*	C1	S	150	1.8	10.2	NO – fairly free rooting – but has had roots severed on east side which restricts root spread in this direction
5	Pedunculate Oak *Quercus robur*	B1	S	450	5.4	91.7	NO – but roots have been severed on the west side restricting rooting pattern in this direction



project:	**Plot 3 60 Sinah Lane Hayling Island**			
client:	**Mr Nigel Slydell**			
drawing title:	**Tree Survey & Constraints Plan**			
drawing no: **BH01/02**	scale: **1:200**	job no: **0298**	date: **January 2009**	drawn by: **bjh**

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