

**Tree Survey, Arboricultural Impact
Assessment and Tree Method Statement
To British Standard B.S. 5837: 2012
“Trees in Relation to Design, Demolition and Construction –
Recommendations
For
12 Magdala Road
Hayling Island
PO11 0BH**



Prepared by

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Date

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1. Introduction

1.1 I have worked in horticulture for over forty years. I started my career as an apprentice gardener with the Royal Parks Hampton Court. I worked at Portsmouth for nine years and Fareham for two in a supervisory capacity. I then moved to Southampton Council as a Parks Officer responsible for half the city's parks and open spaces. Whilst at Southampton I wrote the detailed Grounds Contracts that have been used by many other authorities. In April 2006, I took early retirement after fifteen years with Winchester City Council as their Parks and Recreation Officer. Responsible for all grounds contracts across the Winchester District. Since my retirement, I started my own landscape design and consultancy business where I can draw on forty eight years of experience in all areas of Horticulture.

2. The Brief

2.1 I have been instructed by Mr I Davis to carry out a Tree Survey; provide professional advice i.e. root protection areas in line with B.S. 5837:2012 and prepare a Tree Survey, Arboricultural Impact Assessment and Tree Method Statement for 12 Magdala Road, Hayling Island, PO11 0BH

3. Caveats

3.1 The information contained within this report and the tree survey plan (0447-17-NJT) are based on the proposed site layout plan drawn up by Andy Dunks Architect and my own measurements taken on site and I have relied on the accuracy of this drawing and measurements to compile my report and survey plan.

3.2 The trees have been surveyed and this report has been written in accordance with BS 5837:2012 Trees in relation to design, demolition and construction – recommendations.

3.3 All of the trees in question are in neighbouring properties to the north and east of the proposed site. Because their roots encroach into the site they will require protection during the construction of the proposed new extension.

3.4 The trees in question that form the basis of this report and survey are not covered by TPOs or are they within a conservation area according to Havant Borough Councils TPO register.

3.4 The trees were surveyed from ground level, with binoculars being used where considered appropriate. Detailed inspection including aerial investigation (climbing the tree) decay mapping, root or soil analysis was not undertaken, and deemed not to be required on visual inspection of the trees.

4. Survey Date

4.1 The trees were surveyed in accordance with BS5837:2012 on 4 April 2017 and the weather was sunny with a slight breeze.

5. The Site.

5.1 12 Magdala Road is a detached four bedroomed property standing within its own grounds accessed from Magdala Road by way of a tarmac driveway. The garden is laid mainly to lawn. The trees that form the basis of this report are all within two neighbour-

ing properties close to the boundary so that their roots encroach into the site as shown on the Tree Survey Plan 0447-17-NJT.

- 5.2 The proposal is to demolish the existing garage and covered connecting walkway between the house and garage and build a two storey extension.

6. The Tree Survey

- 6.1 In carrying out the tree survey, the following was assessed for each tree in line with BS5837:2012 Trees in relation to design, demolition and construction – Recommendations Dimensions: height estimated to the nearest metre, crown spread, (measurements taken north/south/east/west), existing canopy height above ground level to first significant branch and stem diameter taken at 1.5m above ground level. Where measurements have been estimated due to access restrictions they are preceded with #

7. Species

7.1

TPO No	TREE REF	Common Name	Scientific Name	NO OF TREES	LOCATION
	T1	Gum tree	Eucalyptus	1	Rear garden of neighbouring property north boundary.
	T2	Evergreen Oak	Quercus ilex	1	Rear garden of neighbouring property eastern boundary
	T3	Evergreen Oak	Quercus ilex	1	Rear garden of neighbouring property eastern boundary
	T4	Sycamore	Acer pseudoplatanus	1	Rear garden of neighbouring property eastern boundary
	T5	Gum tree	Eucalyptus	1	Rear garden of neighbouring property eastern boundary
	T6	Gum tree	Eucalyptus	1	Rear garden of neighbouring property eastern boundary

8. Age

- 8.1 An estimate of the tree age is given where Y= young tree within first quarter of its life expectancy, SM = semi mature tree in its second quarter of its life expectancy EM = early mature tree within third quarter of its life expectancy. M = mature tree within final quarter of its life expectancy OM = over mature tree beyond life expectancy.

9. Condition

- 9.1 Tree condition summary is shown as: - Good, tree with no visible significant health defects. Fair, some visible remedial defects. Poor, serious visible structural defects or poor health.

10. Future Management Recommendations

10.1 Work required to trees for reasons of sound arboricultural management. This provides management recommendations for trees in their current context and may include the further investigation of suspected defects.

11. Retention span

11.1 Estimated remaining contribution based on species, condition and species, condition and context. The following longevity bands are used: <10; 10+ 20+ and 40+

12. Tree categorization method

12.1 Quality and value classification where:-

- Category U= Trees in such a condition that they can not realistically be retained as living trees in the context of the current land use for longer than ten years and should be removed for reasons of sound arboricultural management. Trees in this category are shown in dark red on the tree survey plan
- Category A= Trees of high quality and value and in such condition that they are likely to make a useful contribution for 40 years or more. Trees in this category are shown in light green on the tree survey plan
- B= Trees of moderate quality and value and in such a condition that they are likely to make a useful contribution for at least 20 years. Trees in this category are shown in mid blue on the tree survey plan
- C= Trees of low quality and value or of no particular merit and in such a condition that they are likely to make a useful contribution for 10 years or young trees diameter below 150mm. Trees in this category are shown in grey on the tree survey plan

12.2 Trees in the A B and C categories are also assessed under three headings (1) Mainly arboricultural qualities (2) Mainly landscape qualities (3) Mainly cultural values including conservation. Further detail on these categories can be found on page 9 Table 1 of BS 5837:2012.

Tree No	Species	Height M #	Dia at 1.5m (mm)	Crown Spread (m)	Crown Clearance (m)	Rad. of RPA (m)	RPA (M sq)	Age Class	Comments Structural and physiological condition	Preliminary Management considerations	Estimated remaining contribution (Years)	Category rating
T1	Eucalyptus	#6m	#600	#N 4 E 5 W 4 S 2	#2 N	7.20	163	SM	Fair physiological condition Fair structural condition		20+	B
T2	Evergreen Oak	#5m	#400	#N 3 #E 4 W 2 S 2	#3 E	4.80	72	EM	Poor physiological condition Poor structural condition Badly pruned in past assume to clear overhanging branches into No12		20+	C
T3	Evergreen Oak	#5m	#600	N 4 #E 5 W 2 S 4	#3 E	7.20	163	EM	Fair physiological condition Fair structural condition Badly pruned in past above. Split trunk and showing signs of rot	Recommend further inspection	+10	C
T4	Sycamore	#5m	100 100 50	N 1 E 1 W 1 S 1	#2 E	3.00	28	Y	Poor physiological condition Poor structural condition		20+	C
T5	Eucalyptus	#6m	#400	N 5 #E 5 #W 2 #S 3	#3 E	4.80	72	EM	Fair physiological condition Fair structural condition		20+	B
T6	Eucalyptus	#3m	50 100	N 2 #E 2 W 2 S 2	1 S	1.80	10	Y	Fair physiological condition Fair structural condition		20+	B

estimated measurement

13. Observations

13.1 All of the trees are in neighbouring properties and therefore I was unable to get to carry out a detailed inspection of each tree. However T3 an Evergreen Oak is split at base and shows signs of decay and a further inspection by the owners is advised.

13.2 T2 and T3 have been badly pruned in the past and one must assume this has been due to the fact that the braches overhung No 12. They have however re-grown and will require some attention in the future to ensure that they form a better shape not withstanding the outcome of a detailed inspection of T3.



T1



T2



T3



T2, T3, & T4



T1, T2 & T3

14. Appraisal

14.1 The proposed new extension will encroach into the RPA of the tree T1 by an insignificant amount. Due to the site conditions ground protection measures will be required as outlined within the attached Method Statement Appendix 1 and 2.

15. Conclusions

15.1 It is concluded that it is practical and economically possible to construct the proposed new house extension without detriment to the existing trees as shown on the Tree Survey Plan 0447-17-NJT. The trees in question can be retained by the provision of

fencing in accordance with B.S.5837:2012 Trees in Relation to Design Demolition and Construction- Recommendations, and ground protection.

- 15.2 The calculation of the root protection areas is recommended by British Standards B.S.5837:2012 Trees in Relation to Design Demolition and Construction- Recommendations gives the appropriate distance for protective fencing and ground protection from the tree and I have indicated areas to be fenced and protected on the attached Tree Survey Plan 0447-17-NJT

Method Statement for protection of

Trees in line with BS5837-12

For

**12 Magdala Road
Hayling Island
PO11 0BH**

1. Introduction

- 1.1 This Method Statement has been prepared by Nigel Trowell on behalf of Mr I Davis and should be read in conjunction with the submitted Tree Survey Plan 0447-17-NJT.
- 1.2 The Method Statement recommends that the planned development on this site is carried out in accordance with BS5837:2012 Trees in relation to design, demolition and construction – recommendations
- 1.3 The building contractor must agree to undertake tree protection to the standard advised in this Method Statement and to the satisfaction of Havant Borough Councils Tree Officer.

2. General Protection to existing trees

- 2.1 To avoid the tree roots being damaged during construction, the recommendations in BS 5837:2012 Trees in relation to design, demolition and construction must be complied with at all times. Prior to the works commencing, protection measures will be put in place and maintained for the duration of the construction works.
- 2.2 Protective fencing in the way of Heras fencing will be erected around the trees in line with the British Standard 5837:2012 and will be erected as per the distance shown on the attached Tree Survey Plan 0447-17-NJT.
- 2.3 The protected area will remain out of bounds until the fencing is removed at the end of the development period. All protective fencing to clearly signed “Keep Out Restricted Area”
- 2.4 Particular care should be taken when working around the tree protected areas to avoid unnecessary damage to any roots. Roots smaller than 25mm diameter may be pruned back making a clean cut with a suitable sharp tool i.e. secateurs or hand saw. Where roots occurring in clumps or of 25mm diameter and over are found they should only be cut following consultation with an arborist. No roots should be left exposed but covered with either wet sacking or recovered with soil to prevent roots drying out.
- 2.5 No wires nails or other materials may be attached to protected trees.
- 2.6 No diesel oil, bitumen, cement or other material potentially injurious to the trees will be stacked or discharged where it could leach into the rooting zones.

- 2.7 No equipment, vehicles shall be operated, stored or parked within the root protection zone. No clean out areas will be constructed so that the material will be in or migrate to the root protection zone.
- 2.8 Roots or branches in conflict with construction work will be cut cleanly according to correct pruning methods. Any such work will be carried out in accordance with B.S.3998:2010 "Recommendations for Tree Work"
- 2.9 Levels around the existing trees and hedges will not be raised or reduced unless in compliance with the specification for trenching works and within line of British Standard 5837:2012.

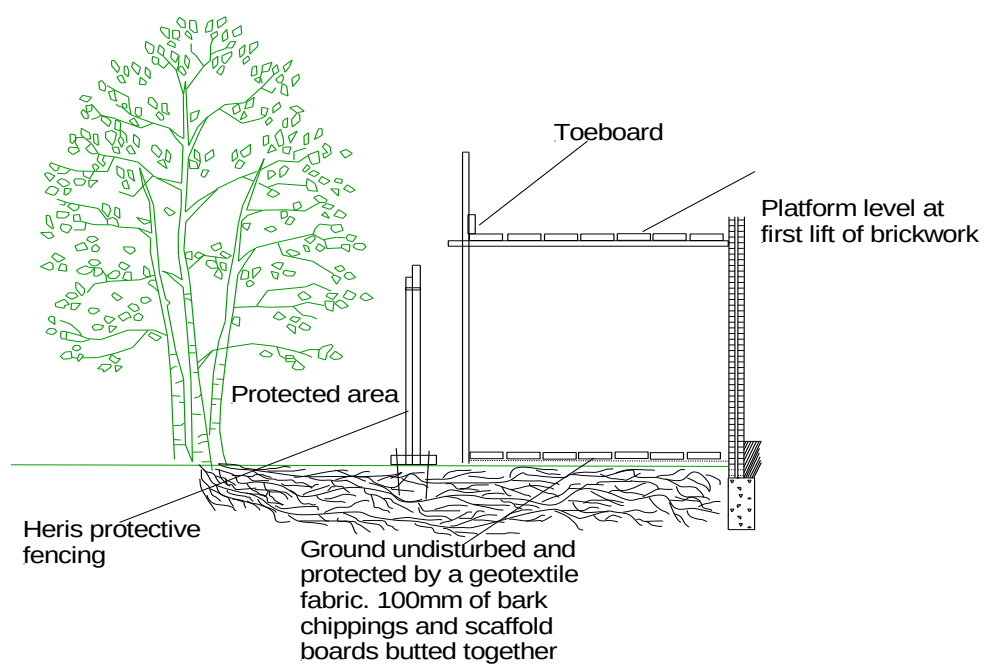
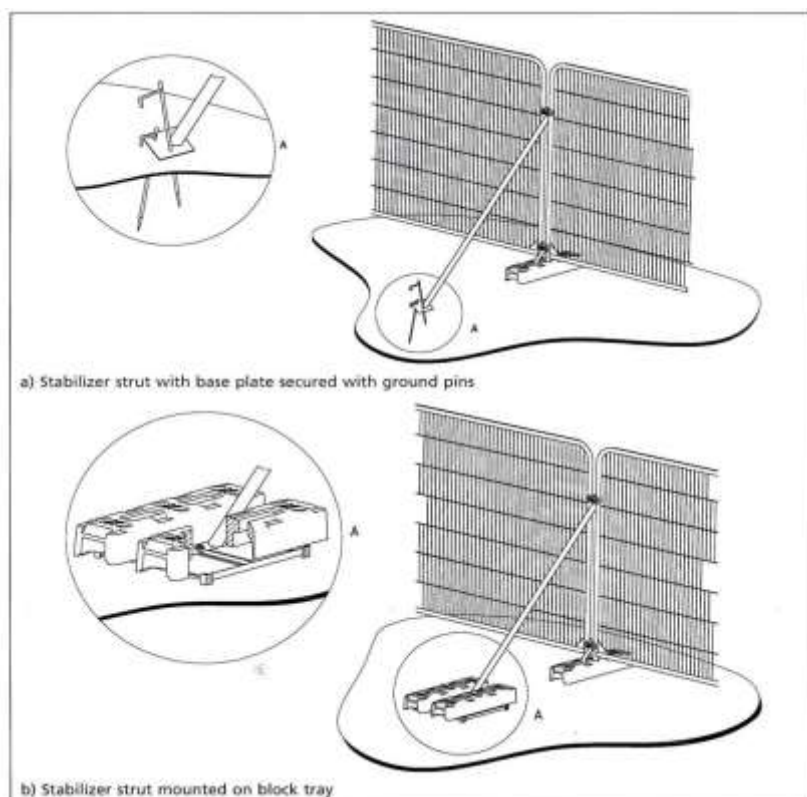
3.0 Method Statement Site Specific for 12 Magdala Road, Hayling Island, PO11 0BH.

- 3.1 Prior to the commencement of any works must have written approval by the Tree Officer for Havant Borough Council. It is the responsibility of the site manager to inform all employees, contractors and sub-contractors visiting and or working on the site of the details specified and to raise the importance of the tree protection measures so as to avoid causing damage to the retained tree.
- 3.2 With the agreement of Havant Borough Councils Tree Officer and prior to any works on site the protective fencing in the way of Heras fencing will be erected around the tree in line with the British Standard 5837:2012 –Trees in relation to design, demolition and construction- recommendations and will be erected as per the distance shown on the attached plan 0447-17-NJT.
- 3.3 The area as shown on the Tree Survey Plan 0447-17-NJT to be covered with a semi permeable membrane and covered with 100mm of bark chippings on which is laid the scaffold boards and this will remain in place for the duration of works. This is to stop undue compaction of the ground within the RPA of T1.
- 3.4 Following approval of the tree protection measures the site team can commence with the development related activities.
- 3.5 The Tree Protection Barriers and plating shall not be removed, breached or altered without prior written authorization from the local planning authority but shall remain in a functional condition throughout the entire development, until all development related machinery and materials have been removed from site. If such protection measures are damaged beyond effective functioning then works that may compromise the protection of trees shall cease until the protection can be repaired or replaced with a specification that shall provide a similar degree of protection. Any issues regarding tree protection should be agreed and implemented prior to commencement of development.
- 3.6 The tree protection measures shall not be dismantled or removed until all construction related machinery and materials have been removed from site and not without authorization from the Havant Borough Councils Tree Officer. Once authorisation has been given the protection measures can be removed by hand and transported off site. During which time, no machinery or vehicles shall enter the area previously protected. No excavations, storage of materials, soil stripping, the raising or lowering of levels or the laying of hard surfacing without prior approval.

Nigel Trowell

05 April 2017

BS 5837:2012 Protective Fencing



Scaffolding within the RPA as shown in BS5837:2012