

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
72 Ferndale
Waterlooville
Hampshire
PO7 7PB



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 Office responsible for half the cities 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 seven years of experience in all areas of Horticulture.

2. The Brief

2.1 I have been instructed by Mr and Mrs Stone 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 72 Ferndale, Waterlooville, PO7 7PB

3. Caveats

3.1 The information contained within this report and the tree survey plan (0360-16-NJT) are based on the proposed site layout plan drawn by HRP Architects and my own measurements taken on site and I have relied on the accuracy of these drawings and measurements to compile my report and survey plan.

3.2 The tree in question has 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 There is only one tree in question of which needs to be taken into account. The tree is growing within the garden of the property close to its southern boundary and therefore forms part of this survey. For ease of identification I have numbered the tree as T1 and noted it on the Tree Survey Plan 0360-16-NJT

3.4. The tree concerned is not covered by a Tree Preservation Order or is it within a conservation area which would have been placed there by Havant Borough Council.

3.5 The tree was surveyed from ground level. 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 tree was surveyed in accordance with BS5837:2012 on Thursday 28 January 2016 the weather cold, sunny and wind calm.

5. The Site.

5.1 72 Ferndale is a detached four bedroomed property standing in its own grounds. The property is accessed from Ferndale by way of a tarmac drive. Both front and rear gardens and laid mainly to lawn and shrubs. In the rear garden is a mature Oak (T1) which is close to the southern boundary and closest to the property and the subject of this report.

5.2 The proposal is to extend the front and rear of the property as shown on the site plan drawn by HRP Architects.

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	Pedunculate Oak	Quercus robur	1	Rear garden close to southern 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)	Dia of RPA (m)	RPA (M sq)	Age Class	Comments Structural and physiological condition	Preliminary Management considerations	Estimated remaining contribution (Years)	Category rating
T1	Oak	#10m	600	N 3.5 E 3.0 W 3.0 #S 2.5	#5 W	7.20	163	EM	Fair physiological condition Fair structural condition Canopy pruned back hard in the past.		20+	B

Estimated measurement

13. Observations

13.1 The Oak T1 as shown on Tree Survey Plan 0360-16-NJT is growing in the rear garden and close to the southern boundary and the neighbouring property. In the past it has been pruned back to form a rounded crown with approximately 5m of clear trunk.



T1

13.2 The proposed new rear extension will be built outside of the RPA other than just encroaching into one corner as shown on the tree survey plan 0360-16-NJT. The amount of encroachment into the RPA is negligible and will not be detrimental to the tree. Work can be carried out using the existing patio as a base and therefore no further compaction of the RPA will occur. Although the tree stands south of the proposed new extension there will be no shading issues due to the orientation of the existing property.

14. Appraisal

14.1 The proposed new extension only encroaches into the RPA by a small amount and is not within close proximity to the canopy of the tree as shown on the tree survey plan 0360-16-NJT. Therefore the proposed building works will have no adverse effect on the tree and its future health and longevity.

14.2 The attached Method Statement for this site (Appendix 1) sets out how this tree will be protected during building works by the use of protective fencing as per the recommendations set out in BS 5837-2012.

15. Conclusions

15.1 It is concluded that it is practical and economically possible to construct the proposed extensions without detriment to the existing Oak (T1) as shown on the Tree Survey Plan 0360-16-NJT.

15.2 The calculation of the root protection area is recommended by B.S.5837:2012 Trees in Relation to Design Demolition and Construction- Recommendations and gives the appropriate distance for protective fencing from the tree and I have indicated the area to be fenced on the attached Tree Survey Plan 0360-16-NJT.

15.3 There is not a requirement at this point in time to carry out any works to the tree in question. However should the need arise a competent arboricultural contractor should be used; Works should be carried out in accordance with B.S. 3998 "Recommendations for Tree Work" 2010

**Method Statement for protection of
Trees in line with BS5837-12
For**

**72 Ferndale
Waterlooville
Hampshire
PO7 7PB**

1. Introduction

- 1.1 This Method Statement has been prepared by Nigel Trowell on behalf of Mr and Mrs Stone and should be read in conjunction with the submitted Arboricultural Survey Plan 0360-16-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 in line with the British Standard 5837:2012 and will be erected as per the distance shown on the attached Tree Survey Plan 0360-16-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 72 Ferndale, Waterloooville, PO7 7PB.

- 3.1 Prior to the commencement of any works the Tree Officer for Havant Borough Council must have agreed as part of the planning process that it is acceptable for works to commence as per this Method Statement. 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 the protective fencing in the way of Heras fencing will be erected 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 tree survey plan 0360-16-NJT..
- 3.3 Following approval of the tree protection measures the site team can commence with the development related activities.
- 3.4 The concrete slabbing of the existing patio should be left in place and all works carried out using this as a base to negate any further compaction within the RPA.
- 3.4 The Tree Protection Barriers 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 the tree 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.
- 3.5 The tree protection measures shall not be dismantled 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

28 January 2016