

ARBORICULTURAL IMPACT ASSESSMENT TO BS 5837

FDF ARCHITECTURE LLP

DECEMBER 2019

STABLE COTTAGE
HENNERTON
WARGRAVE
BERKS
RG10 8PD

FOR MRS PHILIPPA NICOLAI

TO BE READ IN CONJUNCTION WITH A PLANNING APPLICATION FOR CONSENT TO EXTEND STABLE COTTAGE

CONTENTS:

1.00 INTRODUCTION

2.00 SITE PLAN AND STATUS

3.00 ARBORICULTURAL IMPACT OF PROPOSALS

4.00 TREE SURVEY SCHEDULE AND CONSTRAINTS

5.00 SOIL

6.00 CONCLUSIONS

INTRODUCTION

This report has been prepared to assess the impact of the proposed extension to Stable Cottage on a small group of trees to the South and East of the site.

Any impact on these trees will be highlighted and necessary protection advised to be put in place in accordance with the requirements of BS 5837 :2012

The root protection areas have been defined in accordance with BS 5837: 2012 to contain sufficient rooting volume to maintain the tree's viability and to prioritise the protection of the roots and soil structure.

SITE PLAN AND STATUS

The site is shown below with the small group of trees identified and categorised in line with the recommendations of BS5837.

The site is at a high point on Hennerton and part of a group of residential properties formed and developed over many years from the larger estate and its woodlands. Individual trees are not protected but there is an preservation order dating from 6th December 1951 relating to the woodland grouping of trees on the estate and as shown on WBC's planning constraints plan.

There have been significant changes to the arrangement of buildings and surrounding trees since this order and we will suggest that although the extended proposals do not impinge on the root systems of any trees the roots should be safeguarded during the construction process from plant and equipment traffic.

There are a number of small bushes within the site which will be disturbed by the proposed new foundations but these do not fall within the requirements of the British Standard and are capable of being moved and successfully replanted.

The design and access statement includes a description of the site characteristics and the soil has not been examined in detail at this stage as no intrusion into the RPAs of any trees is envisaged and the clay and chalk sub strata are well known in the Hennerton area.



Fig i. Site plan with tree survey and RPAs marked



Fig ii View of the existing Stable cottage building from the North East.



Fig iii. View of Oak tree to the East corner of the site closest to the proposal

ARBORICULTURAL IMPACT ASSESSMENT.

The proposals involve the demolition of an existing concrete garage to the East and a terrace with retaining wall to the South of the property.

The new masonry extension will be added to the Eastern end of the existing property and a new lightweight orangery added to the Western end of the new terrace created by cutting back a shallow bank and reforming a brick retaining wall.

The masonry cavity external wall will be on strip concrete footings a minimum of 1 m below the surrounding ground level and deep enough to achieve support from the underlying chalk strata. This could extend the foundation depth significantly but there will be no impact on the nearby trees.

The principle tree on the site is an Oak marked T1 on the plan and although mature this has been reduced over the years to avoid damage to the adjoining Flint Barn and its outbuildings. The new footings for the extension is well outside the calculated RPA for this tree.

The other trees nearby are 3 apple trees in poor condition and on the limits of a size that falls within the planning process recording parameters. The applicant wishes to maintain these and they are included in the assessment to enable a strategy to be proposed for protection against construction traffic intrusion.

TREE CONSTRAINTS SCHEDULE

REF:	SPECIES	TRUNK DIA MM	HEIGHT MM	CROWN SPREAD M	CONDTN..	LIFE YRS
T1	OAK	570	6500	N4,S4,E4,W 4	Mature	30 +
T2	APPLE	150	3400	N2,S2,E2,W 2	Mature	10 +
T3	APPLE	150	3200	N2,S2,E2,W 2	Mature	10 +
T4	APPLE	150	3200	N2,S2,E2,W 2	Mature	10 +
T5	BEECH	250	3500	N2.5,S2,E2.5,W2	Mature	10 +
T6	PINE	300	7500	N3,S3,E3,W3	Mature	20+
T7	CHESTNUT	750	12000	N5,S5,E5,W5	Mature	20+

TREE PROTECTION SCHEDULE

REF:	SPECIES	TRUNK DIA MM	RPA M2	RADIAL PROTCN mm	CATEGORY
T1	OAK	570	37.8	3420	A2
T2	APPLE	150	20	2000	B
T3	APPLE	150	20	2000	B
T4	APPLE	150	20	2000	B
T5	BEECH	250	30	1500	B
T6	PINE	300	35	3000	B
T7	CHESTNUT	750	450	6000	B

5.00 SOIL

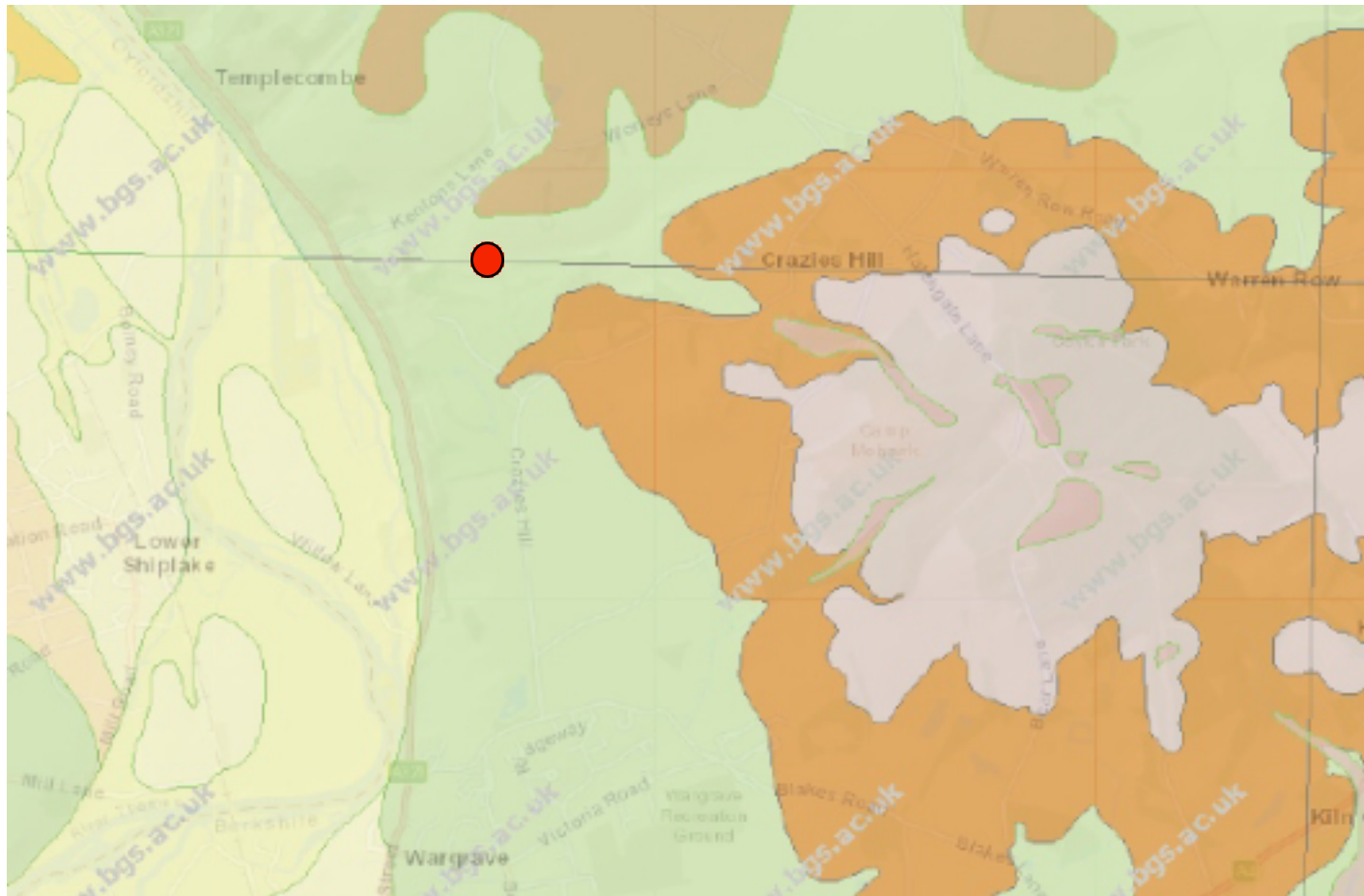


Fig iv Local plan of Hennerton area showing London clay and chalk beds below

6.00 CONCLUSION

The seven trees within proximity of the site and the extension proposals only one is materially adjacent to the works (T1 oak) and the proposal would include protection to the base of the tree with temporary fencing to prevent passage of any mechanical plant from endangering the root system of the trunk.

There would be no storage of materials beneath any of the trees and plenty of hard surface is extant to allow the works to proceed without intruding on the grassed areas beneath the trees to the South.