

**BS5837:2012 -Trees in
relation to design, demolition
and construction.
Arboricultural detail in
relation to Conditions 7 & 10
of planning consent H01-0203-
20 Backgate, Cowbit**

**Prepared by: John Wilcockson Tech Cert (Arbor A), NDF For.
Arboricultural Consultant.**

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1. Instructions

This report was commissioned by Simon Liquorish of Broadgate Homes Ltd with instruction to provide Arboricultural detail in relation Conditions 7 & 10 of planning consent H01-0203-20 in line with *BS5837:2012 Trees in relation to design, demolition and construction - Recommendations*.

The objectives of this report are as follows:

- To provide tree protection details including an Arb method statement and pruning requirements.

2. Introduction

This document has been prepared to fulfil the requirements for the proposal in accordance with the Department for Communities and Local Government guidance on information requirements and validation and is set out in compliance with British Standard 5837 Trees in relation to design, demolition and construction recommendations 2012.

A site visit has not been undertaken and no tree constraints details have been provided, as such, the fencing positions and proposed pruning works have been arrived at by way of site plans and photographs along with the detail within the Ecological report.

This report addresses the arboricultural issues relating to the proposed development at the above site and identifies the arboricultural implications of the proposed development with a view to protecting the trees during the construction works by setting out the tree protection methods, construction techniques and working practices that are to be adopted on this site.

If all the guidelines and principles outlined in this report are not adhered to, as with all development sites, there is a risk that the construction activities will result in damage to and potentially the death of the retained trees. Damage to the trees will significantly increase the risk of their health declining and may increase the risk of their complete or partial failure.

The success of the recommendations set out in this report are dependent on the development adhering to the principles set out within, which are to be approved and enforced by the Local Planning Authority (LPA).

3. Arboricultural Method Statement & Tree Protection detail.

3.1 Sequenced Methods of Demolition, Construction and Tree Protection

With reference to relevant published guidance, the methodology of this statement follows a logical sequence essential to the efficacy of the protection measures. Reference may include: British Standard BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations; British Standard BS3998:2010 Tree Work. It is essential to the successful implementation of the principles set out in this document that effective supervision and enforcement are put in place from the outset.

3.2 Phase 1 - Undertake Arboricultural Works

Essentially all boundary trees and hedges apart from T2 Norway Maple will be laterally pruned to the site boundary or by a maximum of 2m where space allows and to a maximum height of 4m to allow for the heras fencing to be installed and to provide access for the construction phase. Some consideration will need to be given to the conifer element in that pruning beyond live material will result in exposed inner dead branches which should be avoided.

These works are considered to be appropriate and in line with sound Arboricultural practice in terms of both the conifer and the scrub Elder hedge sections. Typically works of this type will result in new growth whereby the hedges will thicken up. It is highly unlikely therefore that there will be any negative effect.

It is recommended that for the larger Cypress hedge runs, the Tree Surgeon considers the impact of pruning to 4m and adjusts the cut height in order to maintain visual aesthetics from within site whilst allowing for the fence installation.

The Construction Site manager is to assess the available workspace for the installation of the drive at T2 and only the minimal amount of pruning for this tree should be carried out. If possible and there is the option to do so, any branches should be tied back so long as a sensible clearance for vehicles is provided post construction.

Tree work requires skilled operators to perform pruning tasks in order to maintain the health and safe useful life expectancy of the trees, it is strongly recommended that construction staff DO NOT carry out any tree works.

Additional to this, a legal Duty of Care requires that all works specified should be carried out by qualified arboricultural contractors who have been competency tested to determine their suitability for such works in line with Health and Safety Executive guidelines. All works should be carried out in accordance with British Standard BS3998:2010 Recommendations for Tree Work.

Particular care needs to be addressed in dealing with legally protected species such as nesting birds and roosting bats which are protected under the Wildlife and Countryside Act 1981 (as amended) from intentional harm and killing and applies to roosting and hibernating bats and active bird nests. The protection of bird nests applies between mid-February to August inclusive.

3.3 Phase 2 - Tree Protection

The Tree Protection Plans can be found at Appendix 1.

The fencing shall remain in place throughout construction and be removed only after completion of each phase.

Due to space constraints, figure 3 of BS 5837:2012 will be used (see Appendix 2) in order to minimise the risk of damage to roots.

Essentially, the fence runs will be positioned at the site boundary where possible or as close to the retained hedges to protect them from physical impact whilst providing a minimum of 2m of usable workspace for access during the construction phase.

For T1, the fence run will be at the edge of the drip line of the canopy apart from where it abuts the proposed road. The proposed road position will need to be spray marked out and the fence positioned providing an offset of 1m to allow for construction.

Within the fenced zone, no materials or chemicals should be stored at any time, no fires should be lit, no pedestrian or vehicle traffic, and level changes within these areas should be kept to an absolute minimum. Every effort should be taken to protect a maximum possible area of the root system.

It is not envisaged that the storage of materials during the construction Phase will not be an issue due to the size of the site.

Clear notices are to be fixed to the outside of the fencing with words such as

'TREE PROTECTION AREA – NO ACCESS OR WORKING WITHIN THIS AREA'.

See Appendix 6. These notices shall be A3 in size, laminated and fixed to the fencing using suitable aids such as tie wires.

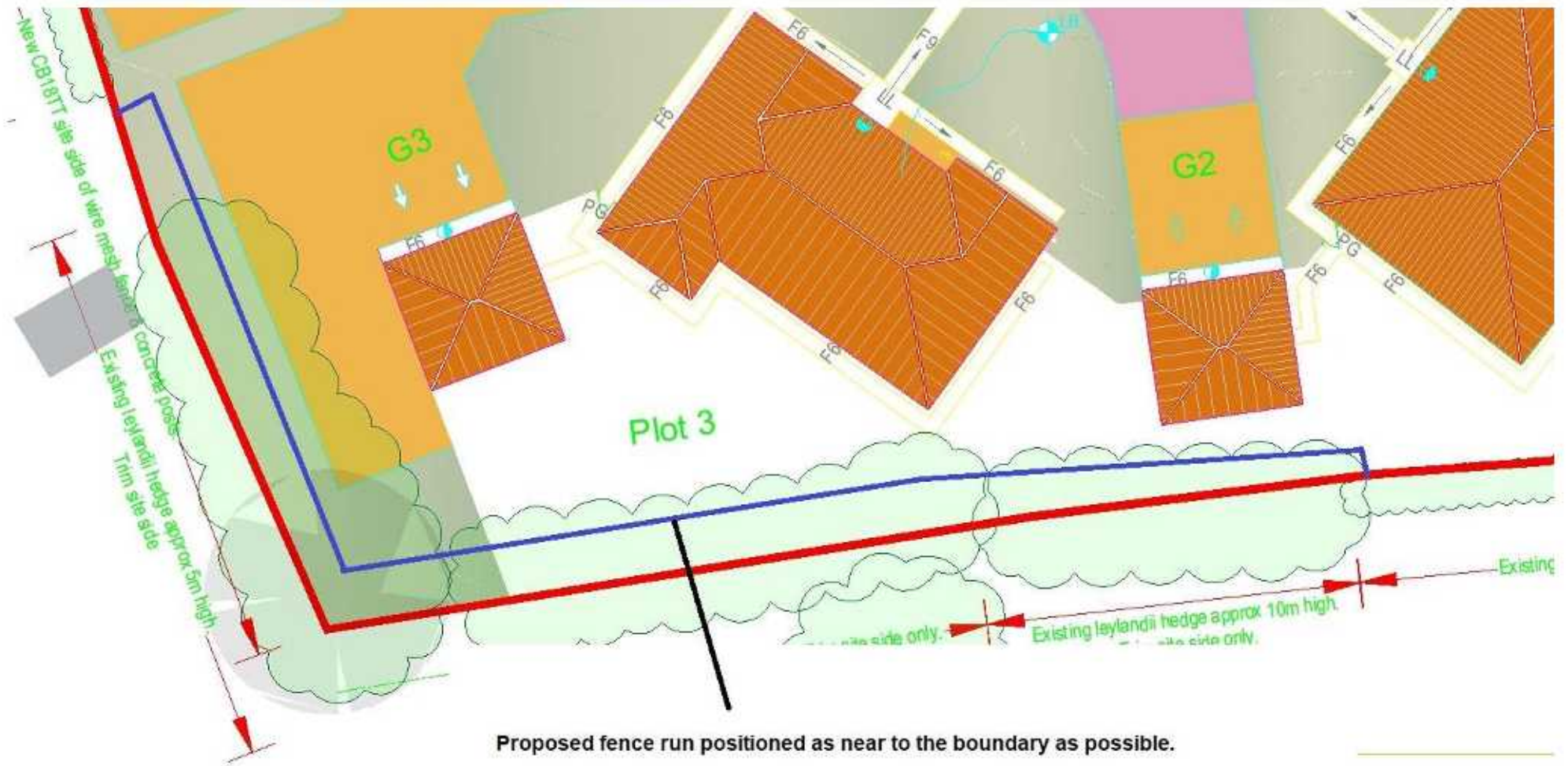
The site agent, all contractors and other relevant personnel are to be informed of the role of the Tree Protection Fencing and their importance. A copy of the Tree Protection Plan will be displayed on site at all times during construction.



John Wilcockson

22/01/21

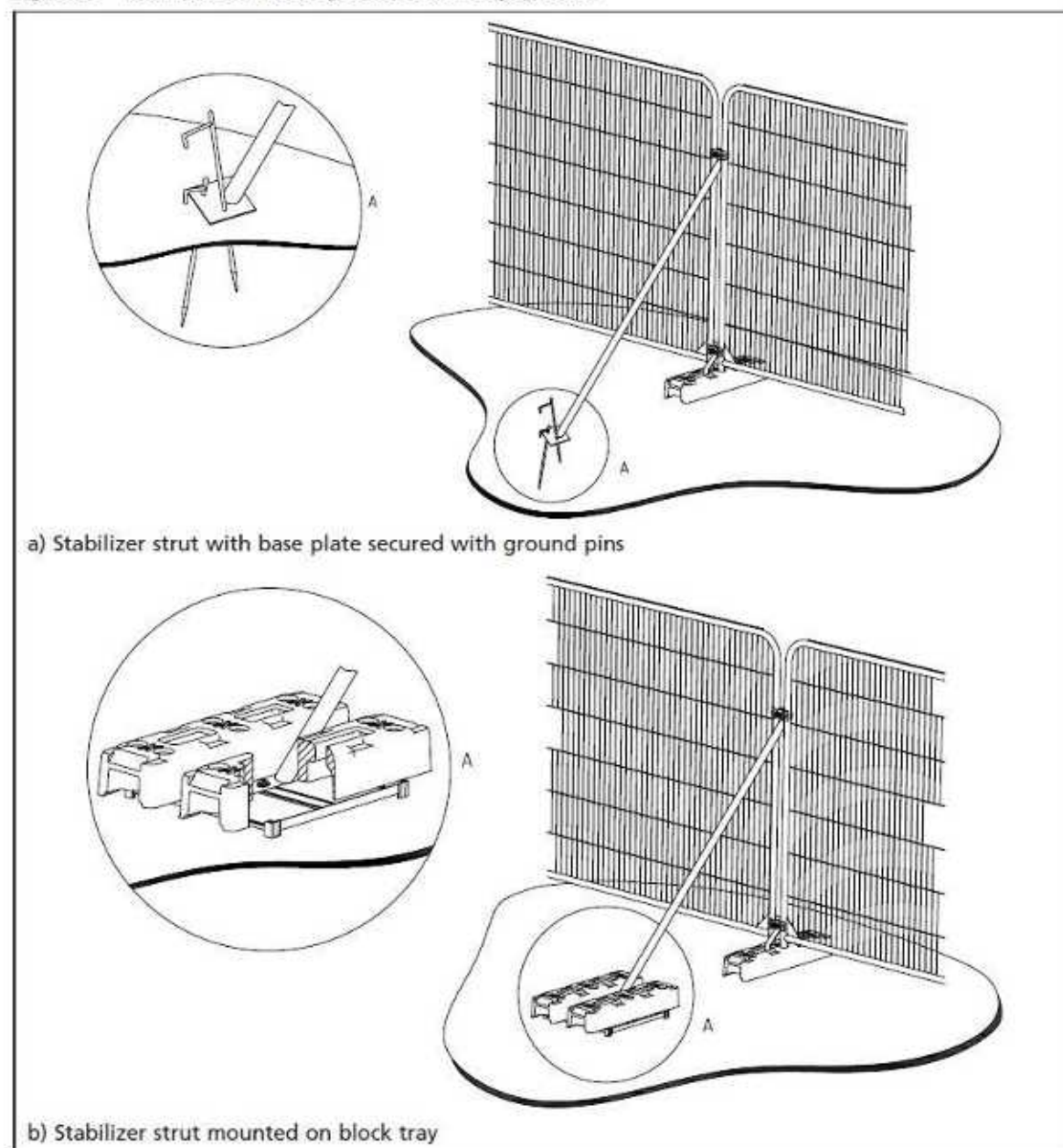
Appendix 1. Tree protection plans – not to scale.





Appendix 2. Fence specification.

Figure 3 Examples of above-ground stabilizing systems



Appendix 3. Signs.



**PROTECTIVE FENCING. THIS
FENCING MUST BE
MAINTAINED IN ACCORDANCE
WITH THE APPROVED PLANS
AND DRAWINGS FOR THIS
DEVELOPMENT.**



**TREE PROTECTION AREA
KEEP OUT !**