

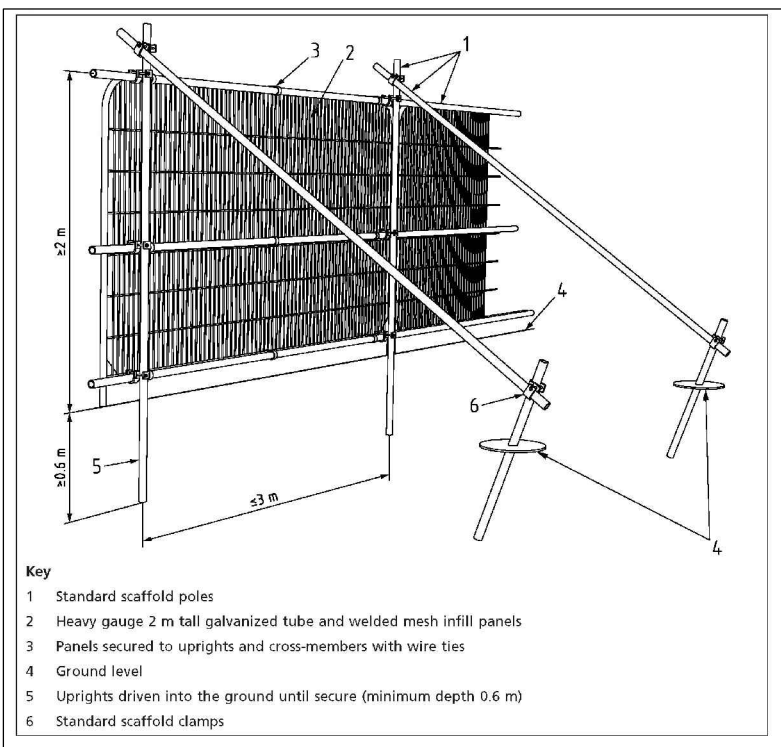
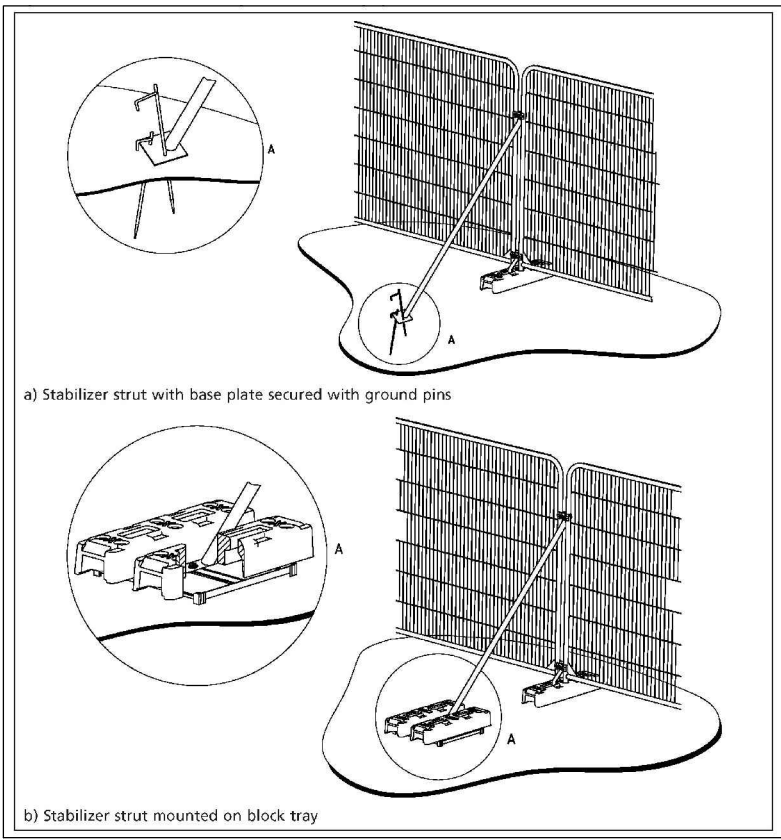
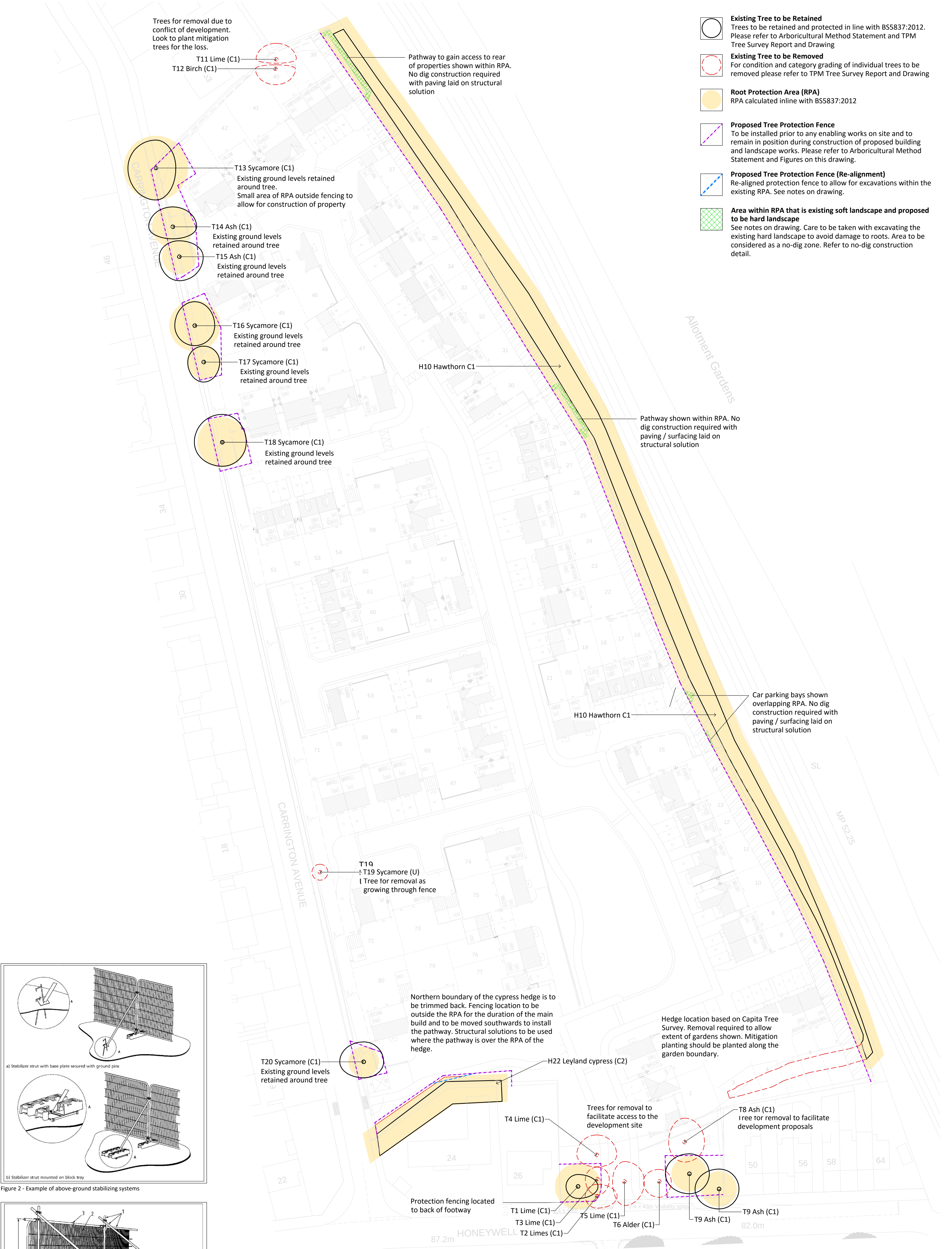


Figure 3 - Default specification for protective barrier



Figure 4 - Typical protection fence signage

This method statement has been produced from current guidelines BS5837:2012 Trees in relation to design, demolition and construction recommendations. If in doubt on any issues relating to the retention and protection of the existing trees on site please contact TPM Landscape (project arboriculturist) on 0161 235 0600 or the Tree Officer at Barnsley Metropolitan Borough Council..

The appointed contractor should consider and follow this recommendations whilst working on the project. The appointed contractor must consult the project arboriculturist who will oversee any critical operations close to the existing trees and make checks to ensure that the tree protection fence and working methods as described below are adhered to.

Tree Works

All tree works should be carried out by a qualified arboriculturist prior to any construction works starting on site. Only carry out tree works which are shown on the planning approved drawing, any further works that need to be carried out require written approval from the local authority and should be advised by the project arboriculturist.

Areas of scrub, bracken and bramble should be strimmed to 0.1m in Sept-October and the arisings removed to discourage hedgehogs and amphibians from settling in this area prior to heavy machinery entering the site and the full clearance works begin.

Tree works should be carried out outside of the bird nesting season (typically March-August) unless the trees and scrub has been surveyed by a qualified ecologist to look for active bird nests. If identified the area should be left undisturbed and fenced off (in line with ecologists recommendations) until the chicks have fledged.

Fence Installation

This method statement has been produced from current guidelines BS5837:2012 Trees in relation to design, demolition and construction recommendations. All trees as shown to be retained on the approved plan should be protected by a tree protection fence before any materials or machinery are brought onto the site, and before any demolition, development or stripping of topsoil commences. Please refer to drawing 2448 - 103 for location of fencing and Figures 2 + 3 for the specification of the Tree Protection Fence. All-weather notices should be attached to the barrier with words such as: "TREE PROTECTION AREA KEEP OUT", please refer to Figure 4 for an example of signage.

It should be confirmed by the project arboriculturist and if requested in the planning conditions the tree officer at Barnsley Metropolitan Borough Council that the barriers have been correctly set out on site, prior to the commencement of any operations.

The protected area should be regarded as sacrosanct, and, once installed barriers (unless identified on the drawing) should not be removed or altered without prior approval by the project arboriculturist and/or Barnsley Metropolitan Borough Council.

Fires on sites should be avoided if possible where there are existing trees. Where they are unavoidable, they should not be lit in a position where heat could affect foliage or branches. The potential size of a fire and the wind direction should be taken into account when determining its location, and it should be attended at all times until safe enough to leave.

Any materials whose accidental spillage would cause damage to a tree should be stored and handled well away from the outer edge of its RPA.

Excavations within RPA

Where excavations works for foundations fall on the edge of the RPA then these should be carried out by a competent contractor with an understanding of trees. Any excavations close to trees should be carried out from within the main body of the site working in (and away) from the tree. Machinery should not encroach into the RPA and protected by the fencing.

For any trees which require excavations within the RPA then water the tree a few days before works are carried out, making sure the ground is moist within the drip line of the tree (only required during the growing season).

Excavations can be carried out with a mechanical digger however these must be supervised by a grounds man to signal if tree roots >40mm are exposed. If roots are identified on site which encroach into the area to be excavated then these must be cut. Ensure cuts are done with hand tools that will make clean, quick cuts (ie chain saw or axe), at no points should roots be ripped or dragged out by a mechanical digger. Make sure cut roots are covered with loose soil or woodchips as soon as possible, DO NOT LEAVE CUT ROOTS EXPOSED. If roots are going to be exposed for more than an hour cover with a damp cloth. Water the tree again thoroughly when job is done (only required during the growing season).

Site Works - Pre Construction Of Development

Temporary roads, site storage and staff parking should be located outside of the RPA (within existing non compacted areas) and should only be implemented after the tree protection fencing has been erected.

Site Works - Construction

Tree protection fencing should only be pushed back or removed to allow for the installation of hard/ soft surfacing within the RPA once all major construction works have finished and heavy machinery has been removed off site.

Areas of proposed surfacing over the RPA should be carried out to a 'No Dig' construction method in line with detailed construction details from an engineer. Surfacing should be constructed over existing levels to avoid excavations within the main body of the RPA and utilise below ground structural solutions e.g. Cellweb.

- Existing Tree to be Retained**
Trees to be retained and protected in line with BS5837:2012. Please refer to Arboricultural Method Statement and TPM Tree Survey Report and Drawing
- Existing Tree to be Removed**
For condition and category grading of individual trees to be removed please refer to TPM Tree Survey Report and Drawing
- Root Protection Area (RPA)**
RPA calculated inline with BS5837:2012
- Proposed Tree Protection Fence**
To be installed prior to any enabling works on site and to remain in position during construction of proposed building and landscape works. Please refer to Arboricultural Method Statement and Figures on this drawing.
- Proposed Tree Protection Fence (Re-alignment)**
Re-aligned protection fence to allow for excavations within the existing RPA. See notes on drawing.
- Area within RPA that is existing soft landscape and proposed to be hard landscape**
See notes on drawing. Care to be taken with excavating the existing hard landscape to avoid damage to roots. Area to be considered as a no-dig zone. Refer to no-dig construction detail.

GENERAL NOTES

- This drawing is the copyright of tpm landscape Ltd and cannot be reproduced in any form without the consent of the company.
- This drawing is to be read in conjunction with detail landscape drawings, details and specification.
- This drawing is to be read in conjunction with all relevant Architects', Engineer's, Specialists, Bills of Quantities and Specifications.
- The insertion of any firm or proprietary brand on this drawing is an indication of the class or quality required and does not exclude the use of alternative materials that are equal in performance, quality and appearance, provided that they have been approved in writing by the Landscape Architect.
- The Contractor is responsible for accurately ascertaining the position of underground services and responding to all relevant service easement requirements.
- All dimensions are in millimetres unless stated otherwise, for the purposes of construction this drawing must not be scaled and only written dimensions used. Written and scaled dimensions to be checked on site, any discrepancies reported prior to work commencing. IF IN DOUBT PLEASE ASK.
- All work and materials are to be in accordance with the relevant British Standards and Code of Practice.
- All Proprietary products are to be used strictly in accordance with the manufacturer's instructions and details.

REVISION NOTES

Rev	By	Description	Date
C	KD	Updated in line with revised site layout	16.09.16
B	KD	Updated in line with planning layout	02.09.16
A	KH	T6 Removed	23.06.16

Client	Miller Homes
Project	Carrington Avenue, Barnsley
Description	Tree Retention, Removal and Protection
Status	For Approval
Scale @ A1	1:500
Job number	2371
Drawn	KH
Checked	KH
Drawing number	103
Date	May 16
Revision	C