SWANN EDWARDS ARCHITECTURE

TREE PROTECTION REPORT

H21-0489-20

DEMOLITION OF EXISTING BUNGALOW AND ERECTION OF 2 PAIRS OF SEMI DETATACHED HOUSES

AT

29 STATION ROAD, TYDD GATE, WISBECH

FOR

MR S NECKER

Job No. SE-1424

December 2020

Swann Edwards Architecture Limited - Registered in England & Wales No. 07943586.
Registered Office: 22-26 King Street King's Lynn PE30 1HJ.
Place of Business: Swann Edwards Architecture, Fen Road, Guyhirn, Wisbech, Cambs. PE13 4AA
t 01945 450694 **e** info@swannedwards.co.uk **w** www.swannedwards.co.uk

Introduction
The proposed development is for 4 new dwellings replacing an existing bungalow in Tydd Gote..
This statement outlines the tree protection proposal for the site and demonstrates how
Swann Edwards Architecture Ltd have addressed important guidelines from BS 5837:2012 in
Response to the existing trees and planting on site.

Tree Protection
Surveys show a mature tree to the South East affected by the development.
In order to retain the visual amenity of the area and to retain the tree onsite, we recommend that protection measures and techniques are adopted in accordance with BS5837:2012 prior to and throughout the construction phase.

The tree will need protection from the following during the construction phase:

a. Excavation within the root zone
b. Lowering or raising soil or ground levels.
c. Soil Compaction by construction traffic, plant and by storage of materials and rubbish
d. Spillage of materials toxic to trees and roots, such as cement washings and diesel
e. Flooding causing root asphyxiation
f. Changes to the Water Table
g. Laying of impermeable surfaces
h. Physical damage by impacts to trunks and branches
i. Fire or heat damage
j. Environmental damage caused by increased exposure to the sun, shade, cold and/or wind.

• Excavation within the root zone.
Surveys and reference to BS5837:2012 show that no portion of the proposed building's construction will impede on the root protection zones.
The RPA for the group of trees is intruded by the proposed driveways.
These areas work require no excavation and should therefore be within parameters set by BS5837.

Foundations have been designed by the project engineer however the footings are not expected to affect the RPA.

All foundation installation will be in full accordance of BS 5837(2012) and non destructive root location and identification will be performed on site prior to commencement of works.
In addition to the above it should be stated that the following requirements are adhered to with regards to the Root Protection Area
1. Linear Mechanical Excavation within the RPA follows investigation.
2. No Excavation by other means within RPA without site investigation.
3. No hand digging without completed method statement for excavation.

Lowering or Raising Soil or Ground Levels.
No lowering or raising of soil or ground levels is to take place on site.

Soil Compaction by construction traffic, plant and by storage of materials and rubbish.
The RPA of the tree is close to the existing access however alternate access for construction traffic and plant can be used.

Throughout the construction period, the area within the RPA is to be covered with proprietary material to prevent construction traffic from damaging the roots should any vehicles use the existing access.

Traditional implementation of scaffold boards laid upon a compressible material on a geotextile membrane should be utilised as per Figure 1, in addition to a specialist product to ensure the tree's wellbeing and root safety.

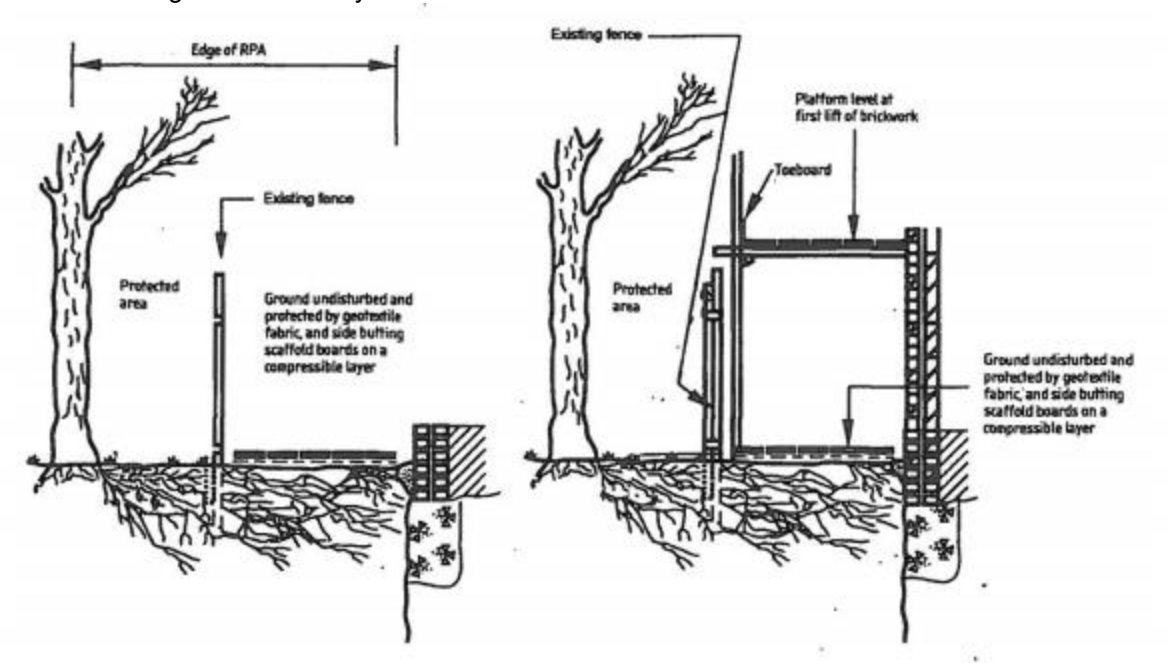


Figure 1: Root Protection

Specialist products for use during the construction phase would SupaTrac by Rola-Trac Limited (http://www.rola-trac.co.uk/4/supa-trac/) or products by Eve Trackway (http://www.evetrakway.co.uk/).

Spillage of materials.

Prior to and during the construction phase, no spoil or construction materials will be stored within any RPAs.
The storage of construction materials or spoil outside of the RPA will reduce any potential spillage of materials or chemicals.
Cement washing or liquid chemical use will be limited on site as all mixing and preparation of concretes and mortars will not be allowed within the designated RPA.

Flooding causing root asphyxiation

The proposal should not increase the risk of flooding. Care will be taken to ensure all services from the dwelling will be capped off and sealed during the construction process.

Changes to the Water Table

The proposal should not change the water table.

Laying of impermeable surfaces

The tarmac strip to the access
forms an impermeable surface, falls and need to be provided for water and air to enter the soil
A high standard of materials and workmanship is needed if frost damage and excessive wear are to be avoided.

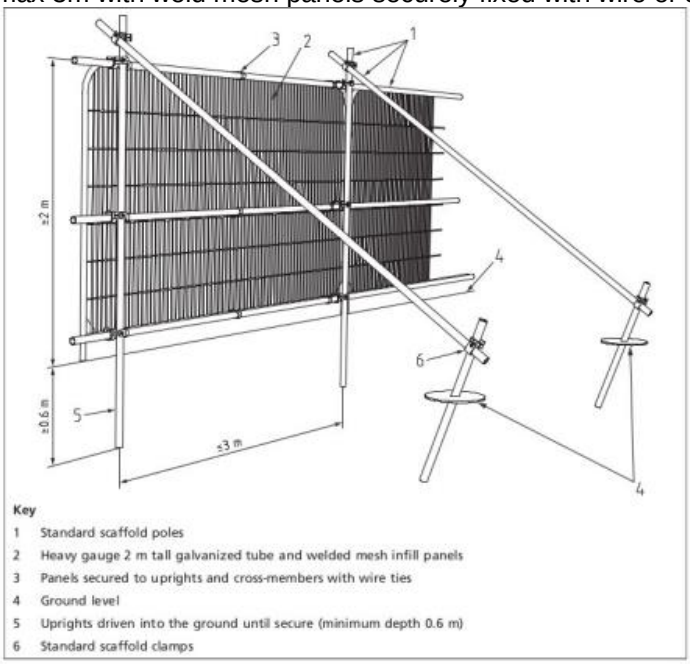
between the slabs or blocks. The are to be laid dry jointed on a sharp sand or coarse aggregate no-fines foundation to allow air and moisture to penetrate to the rooting area.

Physical damage by impacts to trunks and branches

All Trees to be protected onsite by a vertical barrier or proprietary fencing. All tree protection fencing to be to BS5837 (2012).

Tree protection to be installed prior to commencement of works on site and before any machinery or material delivery or operation. Protection of Trees should be supervised and inspected by the LPA Arboricultural Officer prior to the assigned contractor moving onto the site.

Tree Barrier to be proprietary, specialist fencing or constructed from scaffold framework with vertical and horizontal framework, well braced to resist impacts. Vertical tubes to be provided, spaced at intervals of max 3m with weld mesh panels securely fixed with wire or scaffold clamps, all as per Figure 2 below.



Key

1 Standard scaffold poles
2 Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6 m)
6 Standard scaffold clamps

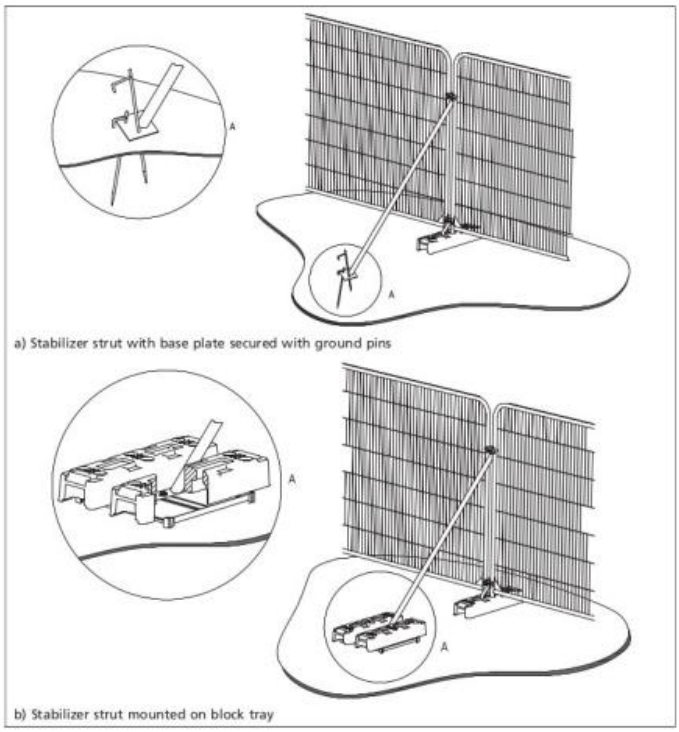


Figure 2: Vertical Barriers

Signage to be provided at A4 size and laminated, clearly stating in large bold typeface:

TREE PROTECTION ZONE
NO STORAGE WITHIN ZONE
NO PLANT OR MATERIALS STORAGE
NO FIRE LIGHTING
NO CHEMICAL HANDLING
BEWARE OF TREE CANOPYS
REPORT ALL DAMAGE TO TREE AND FENCING
WITH IMMEDIATE EFFECT

In addition to the fencing, all machinery and plant operating within the Tree Protection Zone will be aided by banksmen to ensure all outrigging or overhanging sections are given adequate clearance from the protected trees.

Fire or heat damage
No fires are to be lit on site during the construction process.

Environmental damage caused by increased exposure to the sun, shade, cold or wind.
The proposal will not have any detrimental effect of increased weather on the existing trees. The Site is self contained

Additional Requirements.
Tree Work
Future tree pruning may be a necessity.
A climbing inspection should be undertaken to assess the requirement for other works and gauge the health of the trees on an annual basis.

Proposed Site Hut, Parking and Material Storage
All Material Storage, Parking and the Site Hut Accommodation will be located to the West of the site close to the existing site access.

Workers Site Practice Leaflet.
All workers on site to be handed A4 leaflet stating:

TREE PROTECTION MEASURES

This leaflet to be issued to all site personnel as part of the site induction process!

TREE PROTECTION

All trees adjacent to working areas are to be protected by fencing. The fencing is to be maintained in good order at all times and no attempts shall be made to bypass, damage or ignore it.

PROTECTION WITHIN TREE PROTECTION ZONES

Inside the Root Protection Area and in areas adjacent to trees, the following prohibitions apply:
No mechanical Excavation
No storage of Plant or Materials
No Vehicular Access
No Handling of Chemicals inc' Cement
No fires or burning.

AVOID DAMAGE TO STEMS AND BRANCHES

Ensure wide or tall loads do not come into contact with Trees.
All Plant in close proximity to Trees will be operated under the supervision of Banksmen.
Asking for Assistance and Reporting Issues.
If you see any damage to a Tree or its protective fencing please contact the site supervisor or Architectural supervisor on 01945 450694.