



Impacts

Trees to be removed

Groups / Hedges to be removed (Partial removal of groups)

Trees with proposed incursions into RPAs

Groups / Hedges with proposed incursions into RPAs

Trees that will require pruning

Groups / Hedges that will require pruning

Trees to be transplanted

Groups / Hedges to be transplanted

G11 Cupressocyparis Plant storage structure RPA & crown
T12 Betula pendula Plant storage structure RPA & crown

Arboricultural Impacts - RPAs (Area)

No. Species RPA Incursion (m²) (m²) (%)

T12 Betula pendula 65.33 6.7 10.3%

Tree Work Schedule

No. Species Works

G11 Cupressocyparis Prune: reduce trees to acieve 1m clearance to the proposed structure.

T12 Betula pendula Prune: reduce tree to acieve 1m clearance to the proposed structure.

All tree work is to be undertaken in accordance with British Standard BS 3998:2010 Tree work - Recommendations.

All arising's are to be removed and the site is to be left as found.

that it does not become compacted as a result of tree surgery operations. No equipment or vehicles such as timber lorries, tractors, excavators or cranes shall be parked or driven beneath the crowns of

Care is to be taken of the ground around retained trees to make sure

No. of individual trees to be removed

 U
 A
 B
 C

 0
 0
 0
 0

No. of groups / hedges to be removed

 U
 A
 B
 C

 0 (0)
 0 (0)
 0 (0)
 0 (0)

 () = Partial removal of a groups
 0 (0)
 0 (0)
 0 (0)

Arboricultural Method Statement

All tree work is to be undertaken in accordance with British Standard Please refer to Arbtech Consulting Ltd. Tree Schedule, Arboricultural Method Statement and Tree Protection Plan, for full details of all surveyed trees and how all aspects of the development maybe implemented without detriment to retained trees.

Foundations within RPAs

The use of traditional strip foundations can result in excessive root loss and as such should be avoided.

Designs for foundations that would minimize the adverse impact upon trees sould include particular attention to the existing levels, proposed finished levels and cross sectional details. Site specific and specialist advice should be sought from the project engineers and arboriculturist.

finished levels and cross sectional details. Site specific and specialist advice should be sought from the project engineers and arboriculturist.

Root damage can be minimised by using:

Piles with site investigation used to be determined their optimal location whilst avoiding damage to roots important for the stability

Beams, laid at or above ground level, and cantilevered as necessary to avoid tree roots identified by site investigation.

Where a slab for minor structures (e.g. shed base) is to be formed.

of the tree, by means of hand tools or compressed air soil

displacement, to a minimum depth of 600mm;

within the RPA, it should bear on the existing ground level, and should not exceed an area greater than 20% of the existing unsurfaced ground.

Slabs for larger structures (e.g. dwellings) should be constructed with a ventilated air space between the underside of the slab and the existing

soil surface (to enable gas exchange and venting through the soil surface. In such cases, a specialist irrigation system should be employed (e.g. roof run-off redirected under the slab). The design of the foundation should take into account of the effect on the load bearing properties of the underlying soil from the redirected roof run-off. Approval in principle for a foundation that relies on topsoil retention and roof run-off under the slab should be sought from building control authority prior to this approach being relied upon.

Where piling is to be installed near to trees, the smallest practical pile

diameter should be used, as this reduces the possibility of striking major tree roots, and reduces the size of the rig required to sink the piles. If a piling mat is required, this should conform to the parameters for ground boarding. Use of the smallest practical piling rig is also important where piling within the branch spread is proposed, as this can reduce the need for access facilitation pruning. The pile type should be selected bearing in mind the need to protect the soil and adjacent roots from the potentially toxic effects of uncured concrete, e.g. sleeved bored piles or screw piles.

This information is compliant with British Standard BS5837:2012 Trees in relation to design demolition and construction - Recommendations, section 7.5 Special engineering for foundations within the RPA.

Utility apparatus

Underground utility apparatus
Mechanical trenching for the installation of underground apparatus and drainage severs any roots present and can change the local hydrology in a way that adversely affects the health of the tree. For this reason, particular care should be taken in the rout and methods of installation of all underground apparatus. Wherever possible, apparatus should be routed outside of RPAs. Where this is not possible, it is preferable to keep apparatus together in common ducts, all inspection chambers should be sited outside of the RPAs.

plans showing the proposed route should be drawn up in conjunction with the project arboriculturist. In such cases trenchless insertion methods should be used with entry and retrieval pits being located outside of the RPAs. If this option is not feasible and providing roots can be retained and protected excavations should be undertaken using hand held tools (air-spade, forks, shovels) or a combination of trenchless and manual excavation (broken trench).

Any design and installation should be undertaken in accordance with the National Joint Utilities Guidelines (NJUG).

Above-ground utility apparatus

Where underground apparatus is to pass within the RPAs, detailed

Above-ground apparatus(including CCTV cameras and lighting) should be sited to avoid the need for detrimental tree pruning, as such the current and future crown size of the tree should be assessed.

Tree branches can be pruned back with care to provide space, though it is not appropriate for repetitive and significant tree work to bean initial design solution unless this is a suitable management outcome for the tree. Any pruning should be undertaken in accordance with BS3998:2010

Rev: Date: No

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AECOM

Arboricultural Impact Assessment

ed on:

SK004

Arbtech AIA 01

Date: Scale: 0ct 2020 1:150 @ A0

: Scale:
Oct 2020 1:150 @ #

Tree Nos.:

RPAs:

Category 'B'

Category 'B'

Category 'B'

Category 'B'

Category 'B'

Category
'U' trees:

Category
'C' trees:

Category
'C' trees:

Category
'C' g

All dimensions should be checked on site. No dimensions are to be scaled from this drawing.

Please notify us of any discrepancies found. Arthech Consulting Ltd. cannot be held responsible for inaccuracies in the base drawing in which this plan is based.

This drawing is designed to reflect the principles of the layout or design only, and relates only to the protection of retained trees.

This drawing is not to be read as a definitive part of the engineering or construction designs or method statement. An architect or structural engineer should be contacted over any matters of construction, detailing or specification and for any standards or regulatory requirements relating to proposed structures, hard surfacing or underground services.

This drawing was produced in colour - a monochrome copy should not be relied upon.