

Protective Fencing

To be erected prior to the commencement of all works on site, and retained in place throughout construction.
Default specification: To comprise either 2.4m wooden site hoarding or a 2.3m high scaffolding framework comprising of vertical and horizontal framework, well braced to resist impacts, with uprights to be spaced at a maximum of 3.0m intervals and driven into the ground by a minimum of 600mm.

Tree Protection Area KEEP OUT

Do not move this fence

(TOWN & COUNTRY PLANNING ACT 1990) TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND/OR ARE THE SUBJECT OF A TREE PRESERVATION ORDER. CONTRAVENTION OF A TREE PRESERVATION ORDER MAY LEAD TO CRIMINAL PROSECUTION.

ARBTECH

Ground boarding

New temporary ground protection should be capable of supporting any traffic entering or using the site without being distorted or causing compaction of underlying soil.

Note: The ground protection might comprise one of the following:

- a) for pedestrian movements only, a single thickness of scaffold boards placed either on top of a driven scaffold frame, or to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100mm depth of woodchip), laid onto a geotextile membrane;
b) for pedestrian-operated plant up to a gross weight of 2t, proprietary inter-linked ground protection boards placed on top of a compression-resistant layer (e.g. 150mm depth of woodchip), laid onto a geotextile membrane;

For situations other than those described in a) or b), the ground boarding is to be designed by a suitably qualified person to an engineering specification in conjunction with arboricultural advice, to be able to support the expected loading to be placed upon it.

Supervised demolition

Hard surfacing: Removal of and/or replacement of hard surfacing situated either partially or completely within the RPAs of retained trees shall be undertaken with care and under the direct on-site arboricultural supervision as these areas are likely to contain roots.

Where this is necessary the wearing course will be broken up using a hand held pneumatic breaker, hand tools and a wheel barrow to break up and remove the surfacing. If it is necessary to remove the sub base this is to be undertaken using hand tools such as a fork to loosen the material and removed using shovels and wheels barrows.

In some situations and at the discretion of the arborist it may be possible to use an excavator using a hydraulic breaker and suitably sized toothless grading bucket. If an excavator is to be used it must be situated outside of the RPAs, on top of the hard surfacing working away from the RPAs or from ground boarding.

Structures: Demolition of existing structures and foundations situated either partially or completely within RPAs of retained trees shall be undertaken with care and under the direct on-site arboricultural supervision as these areas are likely to contain roots.

Where it is necessary for the foundations to be removed they are to only be removed where critical to the proposed development and to the minimum depth required. The foundations will be broken up using a hand held pneumatic breaker, hand tools and a wheel barrow to break up and remove the surfacing.

Which ever system is used there is to be NO disturbance of the soil on the tree side of the foundations. If roots are found they are to be covered over with damp hessian and a layer of either sharp sand, wood chip or top soil to prevent desiccation.

Supervised Excavation

All excavations within and immediately adjacent to RPAs are to be undertaken under direct on-site arboricultural supervision.

Any roots that are to be cut will be cleanly severed by the project arboriculturalist using a suitable hand saw or secateurs. The edge of all excavation closest to the retained trees will be covered over with damp hessian to prevent drying out, and where necessary be shuttered to prevent soil collapse or contamination by concrete.

Manual excavation: Excavations within the RPAs will be initially undertaken by hand under direct on-site arboricultural supervision to a minimum of 600mm deep (to be confirmed by the project arboriculturalist), whether its for proposed foundations, hard surfacing or underground services.

Mechanical excavation: Excavation within the RPAs will consist of a mixture of mechanical and manual excavation. Where an excavator is used it will be fitted with a suitably sized toothless grading bucket, using a grading / scraping motion rather than digging.

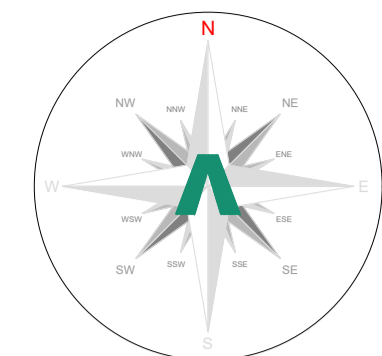
Where an excavator or any other machinery is to be used within RPAs or beneath canopies the project arboriculturalist will clearly instruct the operator about what they want and expect to happen prior to any works may commence.

'No Dig' Surfacing: Multi-dimensional confinement system. Existing vegetation may be removed with hand tools or sprayed with an approved non residual herbicide such as 'Glyphosate'.

The new hard surfacing will be constructed using a 'No Dig' surfacing situated entirely above the existing soil surface and where needed using a proprietary cellular confinement system (GeoWeb or similar) laid over a bi-axial geo-grid (tensar Trak or similar). Prior to this any small hollows on the surface may be filled with clean sharp sand (not builders sand) to a maximum depth of 150mm.

NB: The use of a multi-dimensional confinement system will affect the finished level of the hard surfacing by raising the levels and needs to be taken into consideration when designing foundations and setting the finished floor levels of adjacent buildings.

0m 1m 3m 5m 10m



Indicative only

Arboricultural Supervision

Demolition and removal of the existing site features (walls, hard surfacing, services, etc.) within and adjacent to the RPAs of retained trees is to be undertaken under direct on-site arboricultural supervision.

Arboricultural Supervision

Excavations for fence posts for new or replacement fences within and adjacent to the RPAs of all trees are to be undertaken under direct on-site arboricultural supervision. It may be necessary to modify or relocate individual posts.

Arboricultural Supervision

Installation of 'no dig' hard surfacing within and adjacent to the RPAs of tree numbers 4, 5, 8 and 9 are to be undertaken under direct on-site arboricultural supervision.

Arboricultural Supervision

Excavations for the proposed foundations of the dwelling, gate piers and gate track within and adjacent to the RPAs of tree numbers 2 and 4 are to be undertaken under direct on-site arboricultural supervision.

Arboricultural Supervision

Excavations for the proposed foundations of the dwelling, gate piers and gate track within and adjacent to the RPAs of tree numbers 2 and 4 are to be undertaken under direct on-site arboricultural supervision.

Arboricultural Supervision

Installation of 'no dig' hard surfacing within and adjacent to the RPAs of tree numbers 4, 5, 8 and 9 are to be undertaken under direct on-site arboricultural supervision.

Note: 'No-dig' hard surfacing is to be installed immediately to act as ground protection.

If this is deemed not suitable or inadequate for the demolition and construction phases a suitable ground protection is to be designed by the project engineer to be able to support and likely loading that may be placed upon it.

Note: Existing site boundary measures to act as tree protection. If the existing boundary measures are deemed unsuitable or become damaged protective in line with BS5837:2012 specifications are to be installed along the line of or immediately adjacent to the boundary measures.

Tree Work Schedule

Table with 4 columns: No., Species, Works, Category. Lists 17 tree items with details on work to be performed and category.

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.

Arboricultural Supervision

The arboricultural consultant will be required to attend site to directly supervise all demolition and construction works that have to be undertaken within the root protection areas. This will include:

- 1. Pre-commencement site meeting.
2. Location of protective measures.
3. Supervised demolition of existing site features (walls, hard surfacing, kerb edging, services and all associated foundations) within and adjacent to RPAs of tree numbers 4, 8, 9, 10 and 11.
4. Supervised excavations of foundations for dwelling, gate piers, gate track and fence posts within and adjacent to RPAs of tree numbers 2, 4, 8 and 9.
5. Installation of 'No Dig' hard surfacing within the RPAs of tree numbers 4, 5, 8 and 9.
6. Any demolition and/or excavations within or adjacent to RPAs, including foundations, hard surfacing or underground services (non-exhaustive list).
7. Arboricultural sign off and removal of protective measures.

Arboricultural Method Statement

Please refer to Arbttech Consulting Ltd. Tree Schedule and Arboricultural Method Statements, for full details on all surveyed trees and how all aspects of the development maybe implemented without detriment to retained trees.

ARBTECH

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Project: 1 St James' Road, Hampton Hill, Richmond-Upon-Thames, TW12 1DH.

Client: Hampton Hick Ltd.

Drawing: Tree Protection Plan

Based on: 901 H

Drawing No: Arbttech TPP 01 Rev:
Date: May 2020 Scale: 1:100 @ A1 Drawn: MGM

Key:

Key table defining symbols for Tree Nos., RPAs, Category 'B' trees, Category 'C' trees, Trees to be removed, Ground boarding, and Arboricultural supervision.

All dimensions should be checked on site. No dimensions are to be scaled from this drawing. Please notify us of any discrepancies found. Arbttech Consulting Ltd. cannot be held responsible for inaccuracies in the base drawing on which this plan is based.