



Tree Work Schedule G02 Sycamore G03 London Plane Fell trees to ground level; grind out stumps. G05 A Group Prune: Crown reduce 3.5. boundary overhang to 3m. Prune: Crown reduce over site to limit H02 Leyland Cypress Partial removal of group: fell trees to ground level; remove stumps.

H04 Leyland Cypress Partial removal of group: Fell trees to ground level; grind out stumps. C12

H04 Leyland Cypress Fell trees to ground level; remove stumps. T05 Red Spruce Fell tree to ground level; remove stump. B12 T06 Magnolia Fell tree to ground level; remove stump. B1 T07 Whitebeam Fell tree to ground level; remove stump. B1 T08 Horse Chestnut | Fell tree to ground level; remove stump. | B1 T09 Horse Chestnut | Fell tree to ground level; remove stump. | B1

T10 Norway Maple Fell tree to ground level; remove stump. C1 T11 Norway Maple | Fell tree to ground level; remove stump. | C1 T12 Prunus 'Kanzan' Fell tree to ground level; remove stump. T13 Common Hawthorn Fell tree to ground level; remove stump. C1 T14 Lawson Cypress Fell tree to ground level; remove stump. B12 All tree work is to be undertaken in accordance with British Standard

All arising's are to be removed and the site is to be left as found. Care is to be taken of the ground around retained trees to make sure 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 any retained trees, to prevent subsequent compaction and root death.

BS 3998:2010 Tree work - Recommendations.

Protective Fencing To be erected prior to the commencement of all works on site, and retained in place throughout construction. To comprise of 2m tall welded mesh panels on rubber or concrete feet. Panels are to be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence. The panels should be supported on the inner side by stabilizer struts, which should should be attached to a base plate and secured with ground pins. All weather notices should be erected at regular intervals on the weld

Tree Protection Area Do **not** move this fence

mesh panels with words such as "Tree Protection Area - Keep out".

(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 ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN

geotextile membrane;

Manual excavation:

Ground protection (temporary)

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, as 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 compression-resisiatnt layer(e.g.150mm depth of woodchip), laid onto a

c) for wheeled or tracked construction traffic exceeding 2 t gross weight, an alternative system (e.g. proprietary system or pre-cast reinforced concrete slabs) to an engineering specification designed in conjunction with arboricultural advice, to accommodate the likely loading to which it will be subjected. 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 abole to support the expected loading to be placed upon it. In all cases, the objective of the ground boarding is to avoid compaction ofthe soil beneath, so that tree root function remains unimpaired.

Ground protection (CellWeb)

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-axel geo-grid (tensar TriAx or similar). Proir to this any small hollows on the surface may be filled with clean sharp sand (not builders sand) to a maximum depth of 150mm. The 'GeoWeb' is to be back filled by hand with a no-fines aggregate of 4mm - 40mm. The area of 'GeoWeb' will be covered with a permeable geotextile fabric and the finished wearing course laid on top. Edge supports of an appropriate size and strength should be set above ground level and secured with haunching or steel pins driven into the ground. the outer edge of the supports may be banked up with clean top soil.

Existing vegetation may be removed with hand tools or sprayed with an

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 arboriculturist 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.

If appropriate soil beneath the depth of the excavation may be sheet piled, tegular piled or have individual piles installed.

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 arboriculturist), whether its is for proposed foundations, hard surfacing or underground services. The soil is to be loosened with the use of a fork or pick and or air-spade and then cleared with a shovel and or the aid of an air-spade and air-vac. 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 / scrapping motion rather than digging. During each motion the excavator will not be permitted to removing no more than 10 - 20mm deep of soil in any any one pass. If any roots are discovered, mechanical excavation will immediately be stopped and manual excavation will take over to expose the root. Upon

excavations can then continue. Any excavator or other machinery that is to be used will be situated outside of the RPAs of all retained trees or on top of a suitable ground protection.
Where an excavator or any other machinery is to be used within RPAs or beneath canopies the project arboriculturist will clearly instruct the operator about what they want and expect to happen prior to any works

the root being uncovered and either severed or protected the

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. Where underground apparatus is to pass within the RPAs, detailed 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 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.

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 Soil Amelioration

Tree branches can be pruned back with care to provide space, though

To mitigate the impact upon notional RPAs of retained trees resulting from the installation of proposed structures/surfacing to impacted

RPAs, effected trees will be subject to soil improvement, thereby improving the growing conditions. To improve the soil structure within the remaining RPA compressed air

will be injected to a depth of 600mm at 1m spacings, by way of a perforated soil probe (e.g. Terravent; Vogt etc.) to create fissures within the soil profile. A mixture of Terramol and enriched biochar (or similar) will then be injected into the newly fissured soil, again using the same high-pressure system. The Terramol will have the effect of physically holding open the new

gaseous exchange pathways. Biochar is a very pure, high-carbon form of charcoal that improves the structure, aeration, water-holding capacity and nutrient retention of soils and substrates while providing permanent refuge for beneficial microbiology. Enriched biochar has beneficial elements added to it including mycorrhizal fungi, Trichoderma, trace nutrients and beneficial bacteria. Application rates will be determined by the specific equipment used and will be specified by the specialist contractor.

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. Soil amelioration within the RPA of tree T23. 4. Installation of 'No Dig' subbase to act within the RPA of tree T23. 5. Any demolition and or excavations within or adjacent to RPAs,

including foundations, hard surfacing or underground services (a non-exhaustive list). 3. Arboricultural sign off and removal of protective measures Arboricultural Method Statement

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

Rev: Date: Notes: A 30/09/22 Amended proposal drawing B 07/09/23 Installed underground services added; Tree protection amended around T23 for access; Soil amelioration at T23 added to mitigate RPA damage; removal of T07 (in decline) added. C | 12/10/23 | Amended tree protection fencing T15-T18.

D 20/10/23 Amended tree protection fencing T15, T20-22, G01



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Tree Protection Plan

242 / 3.004 / Rev.01

Drawing No:				Rev:	
Arbtech TPP 01				D	
Date:		Scale:		Drawn:	
Oct 2023		1:150 @ A0		JCH	
Key:					
Tree Nos.:	T01	Tree Canopies:		Trunks:	0
RPAs:		Category 'A' trees:		Category 'B' trees:	

Site Plan: underground All dimensions should be checked on site. No dimensions are to be scaled from this drawing.

Category 'C' groups:

All dimensions should be checked on site. No dimensions are to be scaled from this drawing. Please notify us of any discrepancies found. Arbtech Consulting Ltd. cannot be held responsible for inaccuracies 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 statemen This drawing is not to be feed as a definitive part of the engineering or construction designs or instance selection.

An architect or structural engineer should be contacted over any matters of construction, detailing septication 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.

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