The methods below typically each have a unique colour code and hatch or other reference to the plan, for example, pink lines indicate where fences to protect trees should be positioned.

LATE CONSTRUCTION and LANDSCAPING PHASE

Method 9: ***SLEEPER WALLS with TRELLIS or FENCING TOP***

This method shall apply in zones of brown fill on plan. The planter walls shall be formed from modern railway sleepers (1200mm x 200mm x 100mm or similar) laid flat, to required height, drilled at approx. 1.5m intervals and pinned to substrate with 25mm dia re-bar or similar. Levelling shall be via minimal excavation (max. 60mm below existing levels), cutting no root greater in diameter than 20mm OR by chocking on hardwood slips / packers, and/or cutting base layer to fit step-wise into any slope. The re-bar shall be driven below the upper face of the topmost sleeper and the hole sealed with timber dowel or other hardwood peg and glued and trimmed flush.

Method 10: ***CYCLE SHED / BIN STORE/ ACOUSTIC ENCLOSURE***

This method shall apply in the zone of yellow fill on plan. Edge restraint shall be formed from timber baulks (e.g. modern railway sleepers) or lighter section tanalised timber pegged or pinned to substrate with 25mm dia. re-bar or similar. A geogrid such as Tensar TriAx type, with a grid size sufficient to retain the size of aggregate shall be laid directly on the ground surface within the timber edges, then a sub-base 75mm deep of 20-40mm clean stone -NO FINES- (typically sold as 'track ballast'), then a further fine-mesh geogrid such as Tensar TriAx shall be laid. The grid size shall be sufficiently small to retain the layer above, such as coarse shingle, or for a slab finish, granite chippings, no fines shall be laid to correct levels, then the slabs. The slabs shall not be bedded on mortar or lean mix.

The enclosure shall be of timber and uprights. Post holes shall be dug with hand tools only. Probes such as screwdrivers or steel rod <10mm diameter to determine root presence ahead of digging shall be used. The work shall proceed cautiously. Roots 20mm or more in diameter unearthed shall be temporarily protected with bubble-wrap and insulating or gaffer tape while rest of hole is dug. It should be borne in mind that the presence of large numbers of roots >20mm in diameter may effectively prevent the completion of the post hole, and typically shall require terminating the dig and moving the post hole to a different location.

The timber superstructure may be placed directly on and affixed to the timber edging or may alternatively be attached to posts placed according to the method outlined.

For the acoustic enclosure all ducting or services to or from the installation shall be clipped to the existing masonry boundary walls, where within RPAs. In this case this means the RPAs of trees 4, 6, 7, 8, 9. The ducts or services shall not be installed below ground level.

Method 11: ***REMEDIAL ROOT TREATMENT***

This method shall apply in the zone of green roundels. Holes in the ground shall be made on a 1m x 1m spacing with a 50mm auger to a depth of 600mm (BGL. Screened topsoil (to BS3882:2015 topsoil) mixed with biochar (such as https://www.soilfixer.co.uk/biochar-article) - 5% of the topsoil volume (this equates to about 20 kgs of product per cubic metre of topsoil) shall be backfilled into the augered holes. Earthworm Inoculation Units shall be placed 150mm below ground level at 3m intervals.

Method 12: ***TREE PLANTING AREAS***

This method shall apply after completion of main build only. Ground preparation for tree planting areas shall entail removal of hard surfacing using hand tools or hand-held power tools only, the removal of degraded or compacted or contaminated soil to a depth of at least 0.45m below finished surrounding ground level. The base and sides of the pit shall be forked over to at least one hand fork's spit in depth. Screened topsoil (to BS3882: 2015 topsoil) with biochar (such as https://www.soilfixer.co.uk/biochar-article) - 5% of the topsoil volume shall be used as planting medium. This equates to about 20 kgs of product per cubic metre of topsoil (to BS3882: 2015 topsoil) to a maximum depth of 0.45m within 1.3m of the trunk location of each tree to be planted. Soil handling of any kind shall take place only after a minimum of 3 days after heavy rain, and shall where possible be carried out 7 days or more after such rainfall. Tree planting shall be in accordance with British Standard 8545:2014 'Trees: from nursery to independence in the landscape - Recommendations'. This endorses good arboricultural practice: the tree shall be planted so that the root collar lies at finished ground level, shall be short-staked and tied with proprietary tree tie. Any whips shall similarly be planted so that the root collar lies at finished ground level, and shall be protected with proprietary growing tube (staked). The ground surface shall be mulched within 0.75m of the trunk location to a depth of 100mm with composted organic material or proprietary mulch mat.

Method 13: ***LANDSCAPING PREPARATION IN ROOT PROTECTION AREAS***

This method shall apply after completion of main build only. Operations shall take place only after a minimum of 3 days after heavy rain, and shall where possible be carried out 7 days or more after such rainfall. Ground preparation within root protection areas shall entail use of hand tools only. The ground surface shall be thoroughly hand-forked over in vertical mode only to one spit's depth (250mm). Care shall be taken not to damage tree roots greater than 20mm diameter. Weed treatment if required shall be via BASIS qualified operatives. Surface debris shall be removed by hand to harrow and disposed of off-site. No wheeled or tracked plant shall be used; hand-held power tools may be used. (Outside root protection areas, mechanical cultivation shall be permitted.) The finishing soil horizon where additional planting medium is required shall be composed of biochar, see: **https://www.soilfixer.co.uk/biochar-article**

mixed with topsoil (to BS3882:2015 topsoil) - 5% by volume (equating to 20 kgs of product per cubic metre of topsoil) which shall be laid by hand-barrow: no mechanical plant shall over-run the loose-tipped material. All handling of soils/soil-mix shall take place only after a minimum of 3 days after heavy rain, and shall where possible be carried out 7 days or more after such rainfall. The mix shall be laid to finish to required levels and allowed to settle via mist irrigation / watering-in / natural rainfall. The ground surface shall be worked to a fine tilth with hand tools prior to planting. No mechanical compaction whatever shall be used. Levelling and minimal consolidation shall be by hand tools / foot and board only, or naturally. Earthworm Inoculation Units, see: **https://www.wormsdirectuk.co.uk/product/worm-colonies-lawn-areas/**

shall be placed 150mm below ground level at 5m intervals in all soil build-up areas.

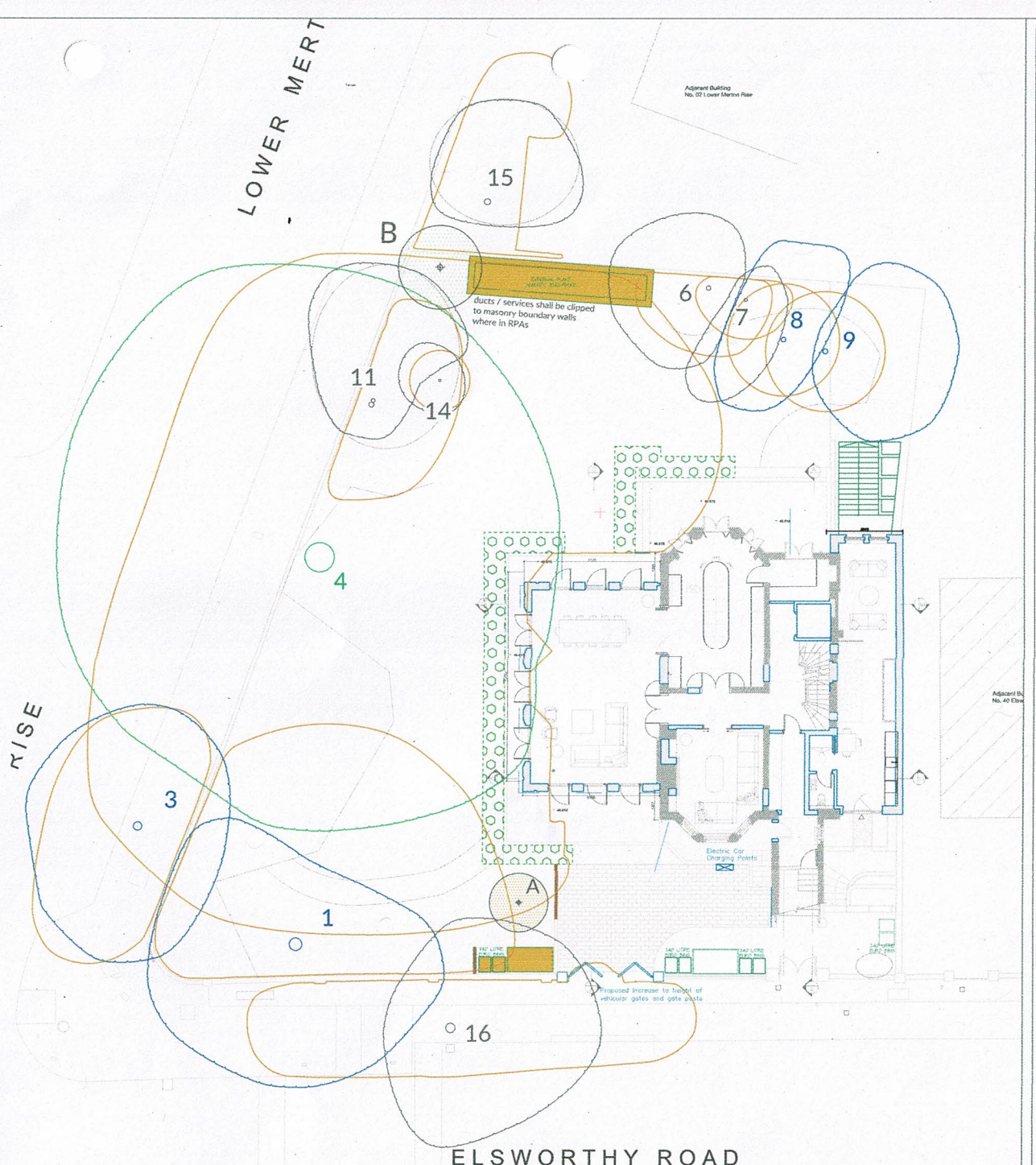
Method 14: ***MAINTENANCE***

Maintenance shall consist of the regular moderate watering of any plant the subject of the planting proposal during the first season (April 15 to October 15) after planting and thereafter in the following four years if drought conditions occur. Hedges shall be trimmed twice yearly to a height of no less than 1.3m and no less than 0.5m thickness (cross sectional). Mulch shall be kept topped up to a maximum depth of 100mm. Grassed areas shall be cut weekly (April 15 to October 15).

Method 15: ***REPLACEMENT***

If within five years of issue of certificate of completion any plant the subject of the planting proposal dies or in the opinion of the LPA becomes seriously damaged or diseased, the same shall be replaced according to the above methods.

(All design subject to engineering approval, but used on other sites and known to be practicable and reliable).



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AA Registered CONSULTANT trees group

KEY TO COLOURS / LINETYPES USED IN RELATION TO TREES

GREEN - High Value (A)
BLUE - Moderate Value (B)
BLACK - Low Value (C)
RED - Very short life expectancy (U)
ORANGE SHAPES: Root Protection Areas

Spread and trunk colours correspond directly to those used in British Standard 5837:2012, Table 2.

For planting key please see report.

DRG. NAME
TREE RETENTION & TREE PROTECTION MEASURES (Landscaping Phase)

NOTES
Do not use for setting out purposes.
All dimensions to be checked on site.

1:100 scale applies ONLY when plan printed at ISO A1 size.

The original of this drawing was produced in colour - a monochrome copy should not be relied upon.

TEXT
FOR FULL METHOD DETAILS PLEASE SEE REPORT

BASED ON
WOLFF ARCHITECTS DRG. NO.: 2164-PL-202-0

SITE ADDRESS
42 Elsworthy Road, London, NW3 3DL

DRG. REF.	REV. NO.
S87-J3-P3	v1
SCALE & SIZE	DATE
1:100 @ A1	24-Mar-22

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