

Arboricultural Method Statement

Site: 84a Kings Road, Richmond, TW10 6EE

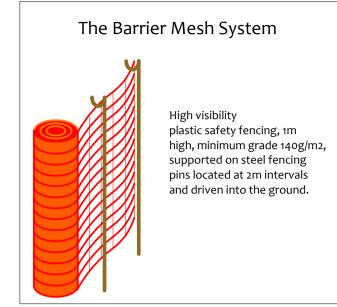
Date: 06/12/2021 | Revision: 1 | CCL ref No: 10994 | Client: Colm Friel

Tree Protection Barriers

The purpose of tree protection barriers is to keep construction activity away from Restricted Activity Zones or Construction Exclusion Zones. They should be appropriate to the nature and proximity of activity within the site. The barriers should be erected prior to the commencement of all activity including demolition, soil stripping and delivery of materials and demolition (except where existing structures require demolition to enable the barriers to be installed). Barrier systems are specified below and should be installed according to the legend on the Tree Protection Plan.

The Barrier-Mesh System — — — — — — Where indicated by a thick red line (solid or dashed) on the Tree Protection Plan, it shall be acceptable to install a less robust system than those specified above. This is because of the nature of construction activity or its distance from tree protection areas. The purpose of such a system shall be to demarcate the protection zone. It is not intended that such fencing will withstand knocks by

In this system, high visibility plastic safety fencing, 1m high, minimum grade 140g/m2 is supported on steel fencing pins located at 2m intervals.



Suitable weather-proof notices should be displayed to identify tree protection zones. They should state the purpose of the fencing and that it should not be moved, or traversed, other than by

Removal of Tree Protection Barriers

Removal of protective fencing or ground protection measures shall be done after all major

Construction Exclusion Zones Within Construction Exclusion Zones the following restrictions shall apply:

- Tree Protection Barriers shall be erected and maintained throughout the entire project as indicated on the Tree Protection Plan and under the header -Tree Protection Barriers.
- These shall remain in place at all times except when authorised landscaping works are being undertaken. At such times, adequate ground protection measures shall be installed, and excavation shall be limited to that required for new planting. Furthermore, the project arborist shall be consulted prior to any works being
- No construction activity or excavation shall occur unless agreed otherwise by the project arborist and local authority.
- No vehicles or plant machinery shall be driven or parked No tree works, other than those specified on this document shall be undertaken. • No alterations of ground levels or conditions shall occur.
- No chemicals or cement washings permitted. • No temporary structures shall be installed.
- No spoil shall be stored.

undertaken in these zones

- No fires shall be permitted
- All hazardous materials (including non-essential cement products) shall be forbidden • Removal of hard surfaces, structures or turf shall be done using hand operated tools only and supervised by the project arborist.

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Tree Works Specification

| Tree erence | Action Required | Notes | |
|----------------|--|---|--|
| and T4 | Trim lower hanging foliage to a height of 3.5m to provide clearance over the proposed outbuilding. | Any branches are to be pruned back to a secondary branch junction or the branch collar wherever possible. Trimming to be kept to a minimum to achieve the desired clearance of 3.5m. | |
| | | | |

Timing of Operations

| Order | Phase | Activity | |
|---|-----------------------|---|--|
| 1st. | | Planning conditions relating to trees to be identified and discussed with the Project arborist and site manager. | |
| 2nd. | Pre- Construction | All specified tree removal and pruning to be undertaken (see Header -Tree Works Schedule). | |
| 3rd. | | Install the tree protection barriers (fencing and ground protection boards - see Headers -Tree Protection Barrier and Ground Protection Measures). | |
| 4th. | Phase | Pre-Commencement site meeting: Tree protection barriers inspected. Additional protection measures to be agreed. Variances to be agreed. Location of underground services to be agreed. Scope of future inspections / monitoring to be agreed. | |
| 5th. | | Arboricultural Method Statement to be revised and approved. | |
| Protection measures confirmed acceptable by the local authority | | | |
| 6th. | Construction | Demolish existing structures and remove existing surfaces where applicable. | |
| 7th. | Phase | Install new buildings, hard surfaces and services taking into account restricted activities as specified in this Arboricultural Method Statement. | |
| 8th. | | Site meeting with project arborist. Landscaping restrictions to be agreed. Condition of retained trees to be assessed and mitigation agreed. Ground conditions to be assessed and ground remediation to be agreed. | |
| 9th. | Post- | Remove protective barriers (fencing and ground protection measures as applicable). | |
| 10th. | Construction Phase | Undertake restricted landscaping operations within Root Protection Areas, including (where applicable) boundary treatments, pedestrian surfaces, decking and any proposed tree planting. | |



Ground Protection Measures

Within Restricted Activity Zones, soils containing roots may be subject to compaction due to general Preparatory Works Any existing hard surfacing may be retained where engineers consider it adequate to spread the load of construction traffic. Otherwise it shall be reinforced as resident of the local authority. of construction traffic. Otherwise it shall be reinforced or replaced with adequate ground protection

thickness and screwed together to prevent slippage. The ground shall first be made even by raking, fires shall be permitted in the vicinity of any exposed tree roots. or by adding a few centimetres of sand or woodchip. Where only pedestrian traffic will occur boards or planks may be supported by a scaffold framework. The scaffold may be founded on poles driven

Canopy Protection into the ground and/or onto blocks (to raise the scaffold) with additional couplings to make the In order to protect tree canopies the following restrictions shall apply throughout the site:

plates, or 100mm of 7–40mm angular gravel installed in 3D cellular confinement system (e.g.

If a piling mat is required, engineer's specifications should be referred to. The ground protection measures shall be installed and approved before commencement of demolition and construction activity and before the arrival of plant machinery or materials. They shall remain in place until all heavy construction activity is complete or until they are due to be replaced

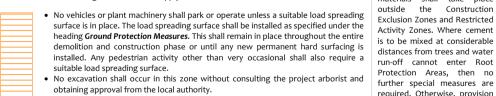
Storage of Spoil and Materials

Storage of Spoil and Materials

Restrictions in Specific Zones

Restricted Activity Zone A

Within this zone trees roots are likely to be present where access will be required to facilitate Any mixing of cement based construction. The following restrictions shall apply:



 Existing ground levels shall be retained undisturbed or raised by no more than 150mm. Ground levels may only be raised using granular topsoil (not rich in clay) or where new surfacing is proposed. where new surfacing is proposed. on the planning application documents unless approved by the local authority.

• Underground services shall not be installed in this area without prior consultation with the project arborist and a methodology agreed and approved by the local All other chemicals hazardous to tree health, including petrol and diesel, shall be stored in suitable

• If roots are encountered in excess of 25mm diameter, they shall be retained wherever possible and protected with damp sacking during times that they are unearthed. Any roots in excess of 10mm that need to be severed shall be pruned with Underground Services • Storage of materials and spoil shall be avoided unless it has been agreed with the Exclusion Zones or Restricted Activity Zones unless done so in a manner detailed in a specific Method project arborist that the ground protection measures are adequate to ensure no soil

Statement and approved by the local authority.

compaction or contamination occurs. All hazardous materials (including non-essential

cement products) shall be forbidden. • Vehicles or plant machinery in excess of 2 tonnes shall not be permitted in this area.

Restricted Activity Zone B

In this zone foundations are to be installed. In order to minimise the impact on roots, it is proposed

• Post holes shall be excavated using hand tools or by a post-hole auger attached to plant to install a **Shallow Foundation**. The following restrictions shall apply:

shallow concrete slab foundation shall be installed. • Excavation for the slab shall be limited to a maximum depth of 250mm and shall be Pruning shall be minimal and only undertaken where absolutely necessary to facilitate the site hoarding. It shall be undertaken by a reputable tree surgeon working to BS 3998 (2010). undertaken using hand tools only. • Roots in excess of 25mm which are located close to the bottom or the edge of the Site hoarding may be installed in place of the specified tree protection measures subject to the

excavation are to be retained intact if possible and covered with wet sacking whilst approval of the local authority with regard to its location and specification. exposed. All roots in excess of 10mm which cannot be retained shall be neatly pruned with secateurs.



General Restrictions - Throughout the Site

No demolition, removal of surfaces, or soil stripping shall commence until the protective fencing and

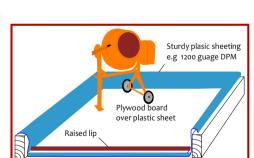
No fires shall be permitted beneath any tree canopy or within 5m of any tree stem, branch or foliage. Unless specified otherwise, ground protection shall consist of 24mm OSB boards laid at double No fires shall be permitted within any Construction Exclusion Zone or Restricted Activity Zone. No

- Where engineers consider OSB boards to be inadequate (e.g. for large plant machinery where the tracks may chew up the timber) sturdier ground protection measures will be installed such as road

 • If materials require installation or delivery beneath tree canopies, this shall be done without the
 - If materials are to be installed or delivered close to tree canopies (but not beneath them) and a crane is required, they shall be carefully marshalled in order to ensure that branches are not

Storage of materials and spoil shall be avoided in any Construction Exclusion Zones and Restricted Activity Zones unless it has been agreed with the project arborist that the ground protection measures are adequate to ensure no soil compaction or contamination occurs. All hazardous

Hazardous Materials



• No new permanent or temporary structures shall be erected other than those shown the Root Protection Area of any trees (see diagram for example). Mixers and barrows shall be that no water run-off enters

No underground services (including soak-aways) shall be located in any part of the Construction

containers as specified by current COSHH Regulations, and kept away from Root Protection Areas.

If site hoarding shall be installed over the Root Protection Area of any tree, the following restrictions

- Ground levels shall be maintained as existing.
- Post holes shall not exceed 300mm x 300mm. No post hole shall be excavated within 1.5m of any tree stem.
- machinery sited outside of Root Protection Areas. • Deep concrete strip foundations shall not be acceptable in this area. Instead, a Roots in excess of 10mm shall be pruned with sharp secateurs.

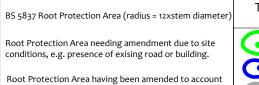
- Cabins shall be located outside of Construction Exclusion Zones and Restricted Activity Zones unless agreed otherwise by the project arborist. Where this is being considered, the project arborist shall be consulted and specific tree protection measures agreed. The following general restrictions will apply:
- All services to and from site cabins shall be installed above ground through any Root Protection

• No excavation shall occur within Root Protection Areas to enable cabins to be installed.

- The cabins shall be founded on a suitable load spreading surface.
- Fence Posts or Decking Posts If permanent fencing or decking is to be installed within Root Protection Areas, the following • All post holes shall be excavated by hand and kept as narrow as possible (maximum diameter
- Exploratory post holes shall be dug before committing to post / panel positions. If any roots in excess of 25mm are encountered they are to remain intact and the post hole shall be relocated slightly. The fencing system must permit such flexibility (i.e. where fixed panel widths are used, all post holes must be excavated before committing to the final location).
- Any roots in excess of 10mm which are severed shall be neatly pruned back with secateurs. This will encourage healing and reduce the likelihood of infection. Walls shall be avoided over Root Protection Areas unless their foundations may be spanned over Hedges may be planted within Root Protection Areas using hand tools to minimise excavation.







Tree Retention Categories Category A tree Category B tree

Category C tree

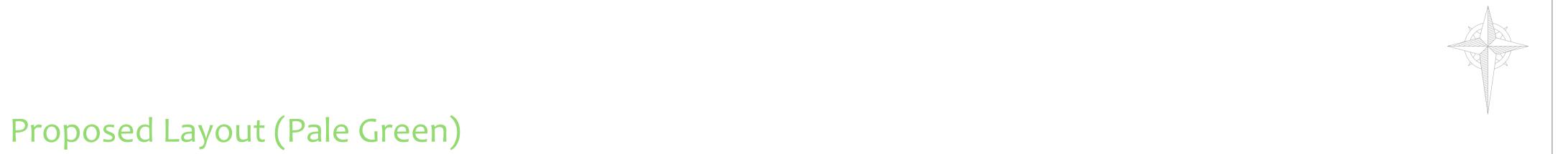
Category U tree

Usually maturing trees, or younger trees with good form. Retense trees is desirable though less than Category A trees

Trees unsuitable for retention due to their very poor condition

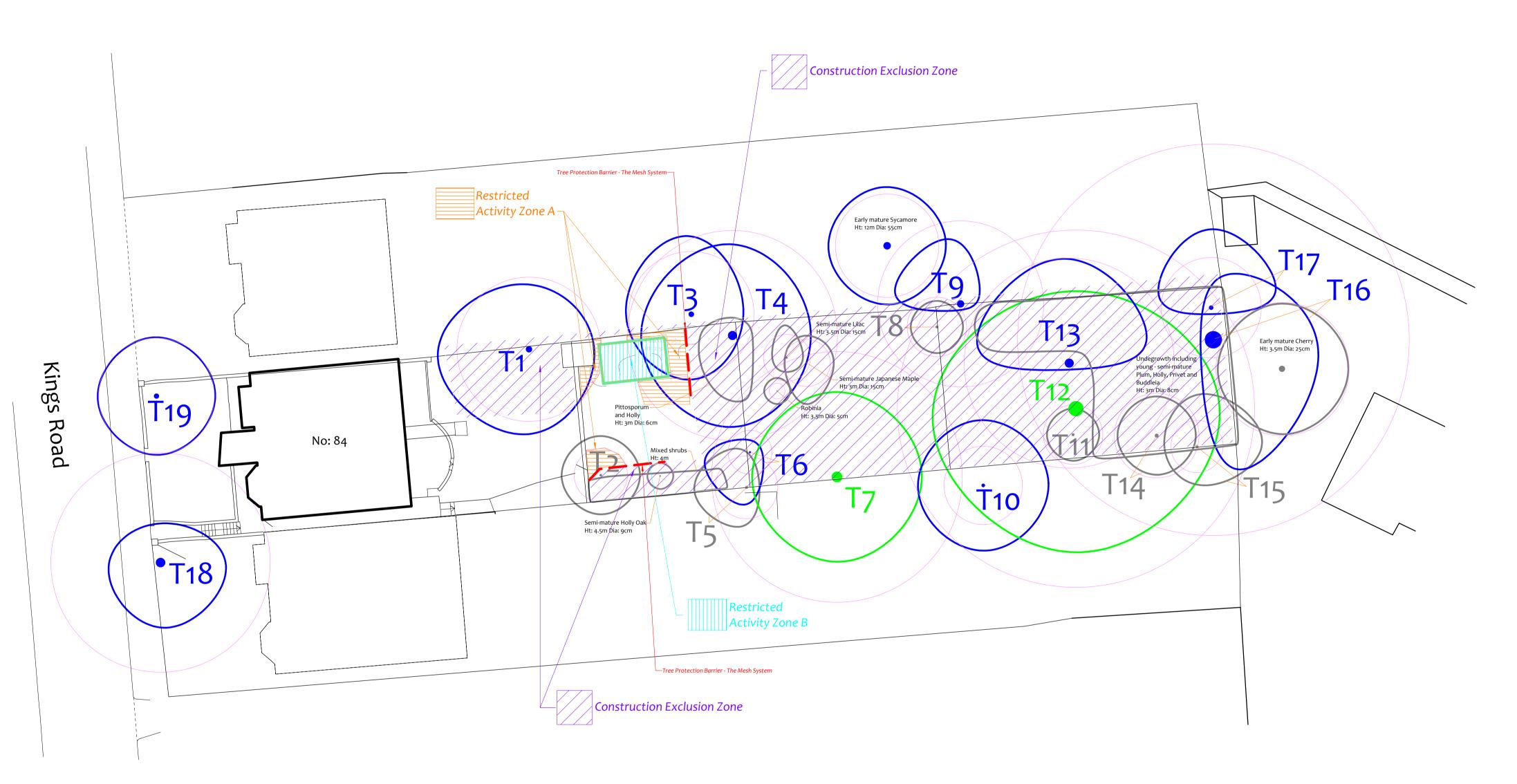
Drawing No: CCL 10994 Tree Protection Plan (Existing Layout with Proposals Overlaid) 84a Kings Road

Paper Size: A1



for for site conditions

 T_1 = Tree No 1 G_2 = Group No 2 H_3 = Hedge No 3



Site Monitoring Schedule

| Inspection | Site Attendees | Comments |
|---|--|---|
| Pre- Start Desk-top To occur prior to any works taking place on the site. | N/A. | Project Manager and Site manager to study this Method Statement & contact the Project Arborist to agree all protection measures. |
| Pre-Start Meeting | Site manager, project arborist. | Tree protection fencing locations & specification checked. |
| After tree works completed & tree protection barriers / ground protection | Tree Officer invited. | Ground protection measures checked. |
| measures installed. Prior to any other activity, inc. demolition & soil stripping. | | Contractors to be inducted to all relevant aspects of the Arboricultural Method Statement. Responsibilities checked and acknowledged. |
| | | Adherence to the Arboricultural Method Statement to be discussed and agreed. |
| | | Report on findings to be sent to the local authority tree officer (see accompanying reporting template) |
| Monthly Inspection and Reporting | Site manager and project arborist* | Tree protection fencing locations & specification checked. |
| To occur once per calendar month throughout the entirety of the project until the | | Ground protection measures checked. |
| ocal authority agree that tree protection measures may be removed | | Past month, present and future month – activities and adherence to Arboricultural Method Statement discussed and checked. |
| | | Report on findings to be sent to the local authority tree officer within 5 working days. |
| Any other ground disturbance in Restricted Zones & Construction Exclusion Zones | Site manager, project arborist. | Two week's notice to be given prior to commencement. |
| Including demolition, soil stripping, removal of hard surfaces, excavation for new | | Excavation to be as specified in this Method Statement. |
| surfacing, foundations, service trenches etc. | | Excavations to be recorded and photographed. |
| | | Mitigation measures to be employed specified by the project arborist. |
| Post-Construction Meeting | Site manager, project arborist. Tree Officer invited. | Retained trees inspected. Ground conditions assessed and mitigation measures agreed where |
| Post external construction activity but prior to removal of fencing & landscaping operations. | | appropriate. Further landscaping operations and restrictions to be agreed. |

* Where agreed with the L.A. it may be acceptable to supply photographs of the fencing to avoid the necessity for a site visit.

Personnel and Accountability This table should be completed at the Pre-Start Meeting or earlie

| Position | Name | Contact Phone & email | Roles |
|-----------------------|---|---|--|
| Project Manager | Insert Details | Insert Details | Liaising with site manager & project arborist regarding any potential issues relating to trees. Scheduling of meeting, excavations and inspections. Overseeing this monitoring schedule. Instructing the project arborist and arranging access. Liaising with local authority regarding discharge of planning conditions and variances to the Arboricultural Method Statement. |
| Site Manager | Insert Details | Insert Details | Day to day monitoring of tree protection measures. Fortnightly supply of site photographs showing all tree protection measures. Induction of all contractors. Reporting to the Appointed Arborist of any incidents or potential variations to the agreed tree protection measures. |
| Project Arborist | Crown Tree Consultancy | 08000 14 13 30 10203 797 7449 S Info@crowntrees.co.uk | Liaising with LPA Tree Officer over all arboricultural matters. Initial inspection and signing off of tree protection barriers including ground protection measures. Monthly site visits and inspections. Oversight of excavation for basement down to 1.2m in Restricted Zones. Reporting to the local authority following site inspections and any variation or incidents. |
| Local Authority | London Borough of Richmond upon Thames | Insert Details | Receipt of reports from the appointed arborist. Liaising with the appointed arborist to agree suitability of tree protection measures and any variations. Enforcement. Advice and assistance with the discharge of planning conditions relating to trees. |
| Additional Contact | Insert Details | Insert Details | Insert Details |
| Additional Contact | Insert Details | Insert Details | Insert Details |