

## Arboricultural Method Statement

Client: Boyer Planning

the project arborist.

with a new hard surface.

Tree

Reference

. T4, T6, smal

shrubs and a

trees.

ster of young

**Removal of Tree Protection Barriers** 

**Construction Exclusion Zones** 

Within Construction Exclusion Zones the following restrictions apply:

otherwise by the project arborist and local authority.

No vehicles or plant machinery will be driven or parked.

No alterations of ground levels or conditions will occur.

No chemicals or cement washings will be permitted.

• No temporary structures will be installed.

Action Required

Remov

une canopy back towards the

boundary

• No spoil will be stored

• No fires will be permitted.

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

Within Restricted Activity Zones, soils containing roots may be subject to compaction due to general

construction activity (including pedestrian activity and use of plant machinery). In order to minimise

compaction, it is proposed to ensure that a suitable load-spreading surface is in place at all times.

Where only pedestrian traffic will occur, boards / planks may be laid directly onto the ground. If a piling mat is required in any of these areas, specifications will be agreed between engineers and

The ground protection measures will 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

• Tree Protection Barriers will be erected and maintained throughout the entire projec

as indicated on the Tree Protection Plan and under the header -Tree Protection These will remain in place at all times except when authorised landscaping works are being undertaken. At such times, adequate ground protection measures will be installed, and excavation shall be limited to that required for new planting.

• No construction activity or excavation will occur in these zones unless agreed

• No tree works, other than those specified on this document will be undertaken.

All hazardous materials (including non-essential cement products) will be forbidden.

• Removal of hard surfaces, structures or turf will be done using hand operated tools

Notes

Stumps of trees within the RPAs of retained trees shall be removed with a

stump grinder NOT a mechanical

excavator.

Branches to be pruned back to a suitable

Trees to be removed are indicated by a thin, dashed line.

branch junction wherever possible.

n work is complete and their removal has been approved by the appointed arborist.

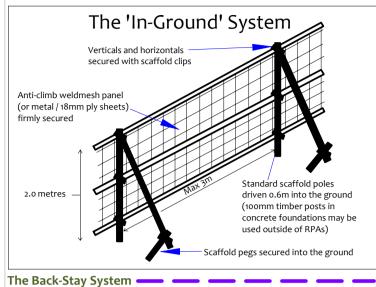
Site: 29a Frognal, London, NW3 6AR Date: 22/01/2024 Revision: 1 CCL ref No: 11720

**Tree Protection Barriers** The purpose of tree protection barriers is to keep construction activity away from Restricted Activity Zones or Construction Exclusion Zones. They must be appropriate to the nature and proximity of activity within the site. The barriers must be erected prior to the commencement of all activity

#### including demolition, soil stripping and delivery of materials and demolition (except where existing Ground Protection Measures structures require demolition to enable the barriers to be installed). Barrier systems are specified

below and are to be installed according to the legend on the Tree Protection Plan. The In-Ground System This system will be installed where indicated by a solid purple line on the Tree Protection Plan. It will Any existing hard surfacing may be retained where engineers consider it adequate to spread the load be robust enough to withstand occasional knocks by plant machinery and, once installed, will remain of construction traffic. Otherwise, it will be reinforced or replaced with adequate ground protection

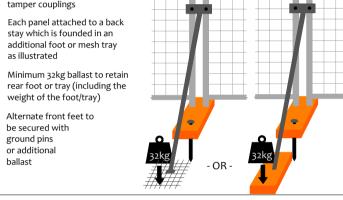
in place throughout the entire construction phase. Vertical scaffold poles are driven into the ground, onto which are affixed horizontal scaffold poles Unless specified otherwise, ground protection will consist of 24mm OSB boards laid at double and diagonal bracing struts. Weldmesh panels (or similar – e.g. Heras type fencing panels, or 18mm+ thickness and screwed together to prevent slippage. The ground will be made even by raking, and by and diagonal bracing struts. Weighten panels for similar – e.g. neras type renting panels or some plywood boards) are secured to this scaffold framework using sturdy clips e.g. standard scaffold adding a toomm of sand or woodchip beneath the boards where any vehicular access is proposed. clips. The system is illustrated in the diagram below and is based on BS 5837 guidelines.



This system will be installed where indicated by a dashed purple line on the Tree Protection Plan. It is more practical over existing hard surfaces or where the fencing needs to be moved to enable permitted activities within a Restricted Activity Zone. This system is able to withstand occasional knocks by machinery and must not be relocated except with the consent of the site manager and the approval of the local authority.

Within this system, weldmesh fencing panels (minimum height 2m) are affixed into rubber or Tree Works Specification The following table specifies the tree works which will be required prior to the commencement of construction activity: additional foot or baseplate secured with ground pins or additional ballast. Where ground pins are not used, the total weight of the foot/plate plus ballast must total no less than 32kg.

Where it is not possible to install diagonal struts (such as very close to a hedge) then the front feet will be secured using ground pins or ballast The 'Back Stay System 2m X 3.5m weldmesh (or sheet metal) panels linked with anti-



Notices

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

#### **Restrictions in Specific Zones**

**Restricted Activity Zone** 

- construction. The following restrictions shall apply
  - No vehicles or plant machinery will park or operate unless a suitable load spreading surface is in place. The load spreading surface will be installed and/or maintained as specified under the heading *Ground Protection Measures*. This will remain in place throughout the entire demolition and construction phase or until any new permanent hard surfacing is installed. Any pedestrian activity (other than very Canopy Protection occasional) will also require a suitable load spreading surface.
  - operating from outside the Restricted Activity Zone and carefully marshalled by the marshalled in order to ensure that no branches are damaged. project arborist. • Where excavation for the **new garden patio** is required, hand tools only will be used use of overhead cranes.
  - footprint of the proposed patio. • When replacing the **existing driveway**, excavation will be limited to the removal of
  - the existing surface and any associated sub-base. A new permeable surface is to be **Storage of Spoil and Materials**
  - Ground levels may only be raised using granular topsoil (not rich in clay) or where new surfacing is proposed. No raising of ground levels whatsoever will occur within 0.5m of any tree stem. • No new permanent or temporary structures will be erected other than those shown Any mixing of cement based
  - on the planning application documents unless approved by the local authority. Underground services will not be installed in these areas. • If roots are encountered in excess of 25mm diameter, they will be retained wherever
  - possible and protected with damp sacking during times that they are unearthed. Any is to be mixed at considerable is to be mixed at considerable roots in excess of 10mm that need to be severed will be pruned with secateurs. • Storage of materials and spoil will be avoided unless it has been agreed with the Storage of materials and spoil will be avoided unless it has been agreed with the project arborist that the ground protection measures are adequate to ensure no soil compaction or contamination occurs.
  - compaction or contamination occurs. • All hazardous materials (including non-essential cement products) will be forbidden. No fires will be permitted.

## Timing of Operations

Activity within the site shall be phased according to the following chronology					
Order	Phase	Activity			
1st.	Pre- Construction Phase	Planning conditions relating to trees to be identified and discussed with the Project arborist and site manager.			
2nd.		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 Barriers and Ground Protection Measures).			
4th.		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. Boundary treatments to be agreed. Extents of excavation to be agreed. Scaffold restrictions to be agreed. Exact specification for foundations to be agreed. Exact specification for new surfaces to be agreed. Scope of future inspections / monitoring to be agreed.			
5th.		Arboricultural Method Statement to be revised and approved (if necessary).			
	Protection measures confirmed acceptable by the local authority				
6th.	Construction Phase Post- Construction Phase	Demolish existing structures and remove existing surfaces where applicable.			
7th.		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.		Remove protective barriers (fencing and ground protection measures as applicable).			
10th.		Undertake restricted landscaping operations within Root Protection Areas, including (where applicable) boundary treatments, pedestrian surfaces and proposed tree planting			

proposed tree planting.

#### **General Restrictions - Throughout the Site Preparatory Works**

- No demolition, removal of surfaces, or soil stripping will commence until the protective fencing and Within this zone, tree roots are likely to be present where access will be required to facilitate ground protection measures are installed to the satisfaction of the local authority. Fires

- Removal of existing structures such as walls, steps and hard surfaces (where In order to protect tree canopies the following restrictions will apply throughout the site: applicable) will be undertaken using hand tools or a small mechanical excavator • No machinery in excess of 2m will pass beneath the canopy of any tree without being carefully
  - If materials require installation or delivery beneath tree canopies, this will be done without the
- for the excavation. If any tree roots are encountered during the excavation, they will be instead to the installed or delivered close to tree canopies (but not beneath them) and a crane is required, they will be carefully marshalled in order to ensure that branches are not accidentally damaged.

Storage of materials and spoil will be avoided in any Construction Exclusion Zones and Restricted No further excavation will occur in this zone without consulting the project arborist
Activity Zones unless it has been agreed with the project arborist that the ground protection Existing ground levels will be retained undisturbed or raised by no more than 150mm.
Materials (including non-essential cement products) will be forbidden. measures are adequate to ensure no soil compaction or contamination occurs. All hazardous

> materials will take place outside the Construction Exclusion Zones and Restricted distances from trees and wate further special measures are required. Otherwise, provision will be made to ensure that the

All other chemicals hazardous to tree health, including petrol and diesel, will be stored in suitable

## Underground Services

No underground services (including soak-aways) will be located in any part of the Construction Exclusion Zones or Restricted Activity Zones unless done so in a manner detailed in a specific Method Statement and approved by the local authority.

- Post holes will not exceed 300mm x 300mm
- Post holes will be excavated using hand tools or by a post-hole auger attached to plant machinery sited outside of Root Protection Areas.
- hoarding. It will be undertaken by a reputable tree surgeon working to BS 3998 (2010).

#### Siting of Cabins

Cabins will 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 will be consulted, and specific tree protection measures agreed. The following general restrictions will

- All services to and from site cabins will be installed above ground through any Root Protection
- No excavation will occur within Root Protection Areas to enable cabins to be installed. • The cabins will 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 restrictions will apply • All post holes will be excavated by hand and kept as narrow as possible (maximum diameter
- Exploratory post holes will 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 will 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 will be neatly pruned back with secateurs. This shall encourage healing and reduce the likelihood of infection. Walls will be avoided over Root Protection Areas, unless their foundations are spanned over roots using a beam system.





#### Site Monitoring Schedule

Inspection	Site Attendees	
Pre- Start Desk-top To occur prior to any works taking place on the site.	N/A.	Project protect
Pre-Start Meeting After tree works completed & tree protection barriers / ground protection measures installed and prior to any other activity, inc. demolition & soil stripping.	Project Manager, Site Manager, Project Arborist, relevant contractors. Tree Officer invited.	Tree pr Ground Contrac and ack Adhere Report
Monthly Inspection and Reporting To occur once per calendar month throughout the entirety of the project until the local authority agree that tree protection measures may be removed.	Site Manager and Project Arborist.	Tree pr Ground Past mo checked Report
Any other ground disturbance in Restricted Zones & Construction Exclusion Zones Including demolition, soil stripping, removal of hard surfaces, excavation for new surfacing, foundations, service trenches etc.	Site Manager, Project Arborist.	Two we Excavat Excavat Mitigat
Post-Construction Meeting Post external construction activity but prior to removal of fencing & landscaping operations.	Site Manager, Project Arborist. Tree Officer invited.	Retaine landsca

## Proposed Layout (Pink)

#### **Personnel and Accountability** This table should be completed at the Pre-Start Meeting or earlier

Position	Name	Contact Phone & email	
Project Manager	Insert Details	Insert Details	Liaisii relati Meth Schee arbor Over: Instru Liaisii variai Repo or inc
Site Manager	Insert Details	Insert Details	Day t Induc Repo incide
Project Arborist	In Crown Tree In Consultancy	08000 14 13 30 1 0203 797 7449 S Info@crowntrees.co.uk	Liaisin Upon incluo proje Upon inspe
Local Authority	London Borough of Camden	Insert Details	Appro repor Liaisii Liaisii meas Enfor Disch
Additional Contact	Insert Details	Insert Details	

# Sturdy plasic sheeti e.g 1200 guage DPM

mixing area is contained so that no water run-off enters the Root Protection Area of any trees (see diagram for example). Mixers and barrows will be cleaned within this area.

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

#### Site Hoarding

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

Ground levels will be maintained as existing.

• No post hole will be excavated within 1.5m of any tree stem.

Roots in excess of 25mm will be retained wherever possible

#### Roots in excess of 10mm will be pruned with sharp secateurs. • Pruning will be minimal and only undertaken where absolutely necessary to facilitate the site

Site hoarding may be installed in place of the specified tree protection measures subject to the approval of the local authority with regard to its location and specification.



for for site conditions

