

**Site:** 2 Hollybank Avenue, Batley, WF17 0AQ

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**Client:** Khadija Patel

## Tree Protection Barriers

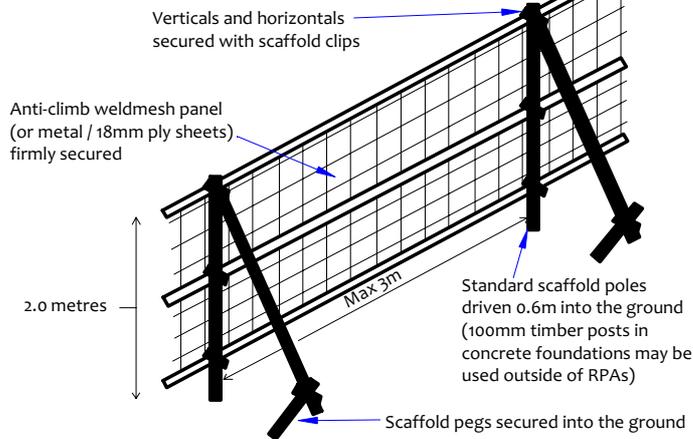
The purpose of tree protection barriers is to keep construction activity away from Restricted Activity Zones or Construction Exclusion Zones. They must be appropriate to the nature and proximity of activity within the site. The barriers must be erected prior to the commencement of all activity including demolition, soil stripping and delivery of materials and demolition (except where existing 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 be robust enough to withstand occasional knocks by plant machinery and, once installed, will remain in place throughout the entire construction phase.

Vertical scaffold poles are driven into the ground, onto which are affixed horizontal scaffold poles and diagonal bracing struts. Weldmesh panels (or similar – e.g. Heras type fencing panels, or 18mm+ plywood boards) are secured to this scaffold framework using sturdy clips e.g. standard scaffold clips. The system is illustrated in the diagram below and is based on BS 5837 guidelines.

### The 'In-Ground' System



## Construction Exclusion Zones

Within Construction Exclusion Zones, the following restrictions apply:

- Tree Protection Barriers will be erected and maintained throughout the entire project as indicated on the Tree Protection Plan and under the header -Tree Protection Barriers.
- No construction activity or excavation will occur unless agreed 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.
- No spoil will be stored.
- No fires will be permitted.
- All hazardous materials (including non-essential cement products) will be forbidden.

## 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 personnel.

## Removal of Tree Protection Barriers

Removal of protective fencing or ground protection measures will only be done after all major construction work is complete and their removal has been approved by the appointed arborist.

## Ground Protection Measures

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.

Any existing hard surfacing may be retained so long as it is adequate to spread the load of construction traffic. Otherwise, it will be replaced with the ground protection measures specified below:

Ground protection will consist of 24mm OSB boards laid at double thickness with staggered joints and screwed together to prevent slippage. The ground will first be made even by raking, and then adding a 50mm thick layer of woodchip. The OSB boards will be laid atop of the woodchip, and cut to fit around any existing structures/boundaries.

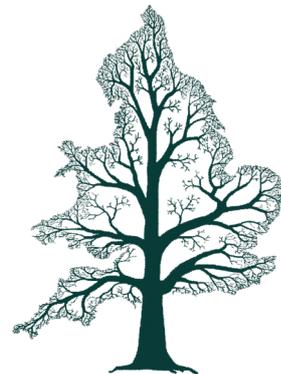
If a piling mat is required, specifications will be agreed between engineers and the project arborist.

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 will remain in place until all heavy construction activity is complete or until they are due to be replaced with a new hard surface.

## 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.		Install the tree protection barriers (fencing and ground protection boards - see Headers -Tree Protection Barriers and Ground Protection Measures).
3rd.		Pre-Commencement site meeting: Tree protection barriers inspected. Additional protection measures to be agreed. Variances to be agreed. Scope of future inspections/monitoring to be agreed.
4th.		Arboricultural Method Statement to be revised and approved (if necessary).
Protection measures confirmed acceptable by the local authority		
5th.	Construction Phase	Demolish existing structures and remove existing surfaces where applicable.
6th.		Install new extension, hard surfaces and services (where applicable) taking into account restricted activities as specified in this Arboricultural Method Statement.
7th.	Post-Construction Phase	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.
8th.		Remove protective barriers (fencing and ground protection measures as applicable).
9th.		Undertake restricted landscaping operations within Root Protection Areas, including (where applicable) pedestrian surfaces and any proposed tree planting.



## Restrictions in Specific Zones

### Restricted Activity Zone A

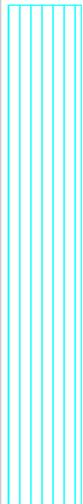
Within this zone, tree roots are likely to be present where access will be required to facilitate construction. The following restrictions shall apply:



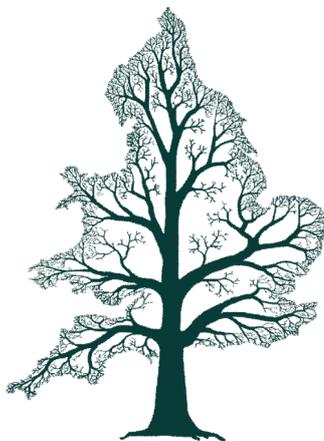
- No vehicles or plant machinery will park or operate unless a suitable load spreading surface is in place. The load spreading surface will be installed and/or maintained as specified under the heading **Ground Protection Measures**. This will remain in place throughout the entire demolition and construction phase or until any new permanent hard surfacing is installed.
- Removal of existing structures such as walls, steps and hard surfaces (where applicable) will be undertaken using hand tools only.
- No excavation beyond the removal of any existing hard surface will occur in this zone without consulting the project arborist and obtaining approval from the local authority.
- Existing ground levels will be retained undisturbed or raised by no more than 100mm. Ground levels may only be raised using granular topsoil (not rich in clay), gravel 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 on the planning application documents unless approved by the local authority.
- Underground services will not be installed in this area.
- 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 roots in excess of 10mm that need to be severed may be pruned with secateurs.
- 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.
- All hazardous materials (including non-essential cement products) will be forbidden.
- No fires will be permitted.

### Restricted Activity Zone B

In this zone, foundations are to be installed. In order to minimise the impact on roots, it is proposed to install a **Shallow Raft Foundation**. The following restrictions will apply:



- Deep concrete strip foundations will not be acceptable in this area. Instead, a shallow raft foundation will be installed.
- Excavation for the raft will be limited to a depth of 350mm and will be undertaken using hand tools. A mechanical excavator may only be used if supervised by the project arborist and if it operates from a suitable load-spreading surface. Hand tools will always be used to probe the upper soil horizons before any mechanical excavation occurs.
- Excavation will not exceed 200mm beyond the building footprint unless approved otherwise by the local authority.
- Roots in excess of 25mm, which are located close to the bottom or the edge of the excavation, are to be retained intact if possible and covered with damp sacking whilst exposed. All roots in excess of 10mm which cannot be retained will be neatly pruned with secateurs.
- Narrow diameter piles may be installed to support the raft foundation. Before their installation, trial pits will be excavated to determine the location of the piles. Trial pits will not exceed 300mm x 300mm and will be excavated using hand tools to a depth of 600mm. Excavation will be undertaken in the presence of the project arborist. Soil will first be loosened with a pick or garden fork to ascertain if large roots are present before the loosened soil is removed with a spade. If roots in excess of 25mm are encountered, they will be retained intact wherever possible and the pile will be relocated to enable the roots retention. Roots in excess of 10mm may be pruned using sharp secateurs. Beyond a depth of 600mm, piles may be installed using an auger or piling rig. Pile diameter will not exceed 250mm unless agreed otherwise with the local authority.



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08000 141330

## General Restrictions

### Preparatory Works

No demolition, removal of surfaces, or soil stripping will commence until the protective fencing and ground protection measures are installed to the satisfaction of the local authority.

### Fires

No fires will be permitted beneath any tree canopy or within 5m of any tree stem, branch or foliage. No fires will be permitted within any Construction Exclusion Zone or Restricted Activity Zone. No fires will be permitted in the vicinity of any exposed tree roots.

### Canopy Protection

In order to protect tree canopies the following restrictions will apply throughout the site:

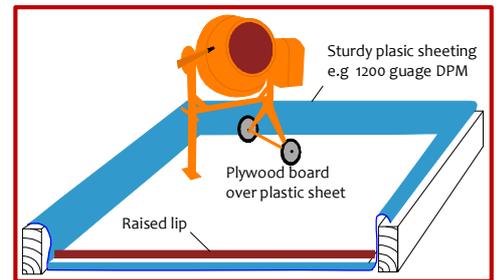
- No machinery in excess of 2m will pass beneath the canopy of any tree without being carefully marshalled in order to ensure that no branches are damaged.
- If materials require installation or delivery beneath tree canopies, this will be done without the use of overhead cranes.
- If materials are to be 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 Spoil and Materials

Storage of materials and spoil will 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 materials (including non-essential cement products) will be forbidden.

### Hazardous Materials

Any mixing of cement based materials will take place outside the Construction Exclusion Zones and Restricted Activity Zones. Where cement is to be mixed at considerable distances from trees and water run-off cannot enter Root Protection Areas, then no further special measures are required. Otherwise, provision will be made to ensure that the 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.



All other chemicals hazardous to tree health, including petrol and diesel, will be stored in suitable containers as specified by current COSHH Regulations, and kept away from Root Protection Areas.

### 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.

### 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.
- Post holes will not exceed 300mm x 300mm.
- No post hole will be excavated within 1.5m of any tree stem.
- Post holes will be excavated using hand tools or by a post-hole auger attached to plant machinery sited outside of Root Protection Areas.
- 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 hoarding. It will be undertaken by a reputable tree surgeon working to BS 3998 (2010).

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.

### 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 apply:

- All services to and from site cabins will be installed above ground through any Root Protection Areas.
- 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 300mm).
- 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

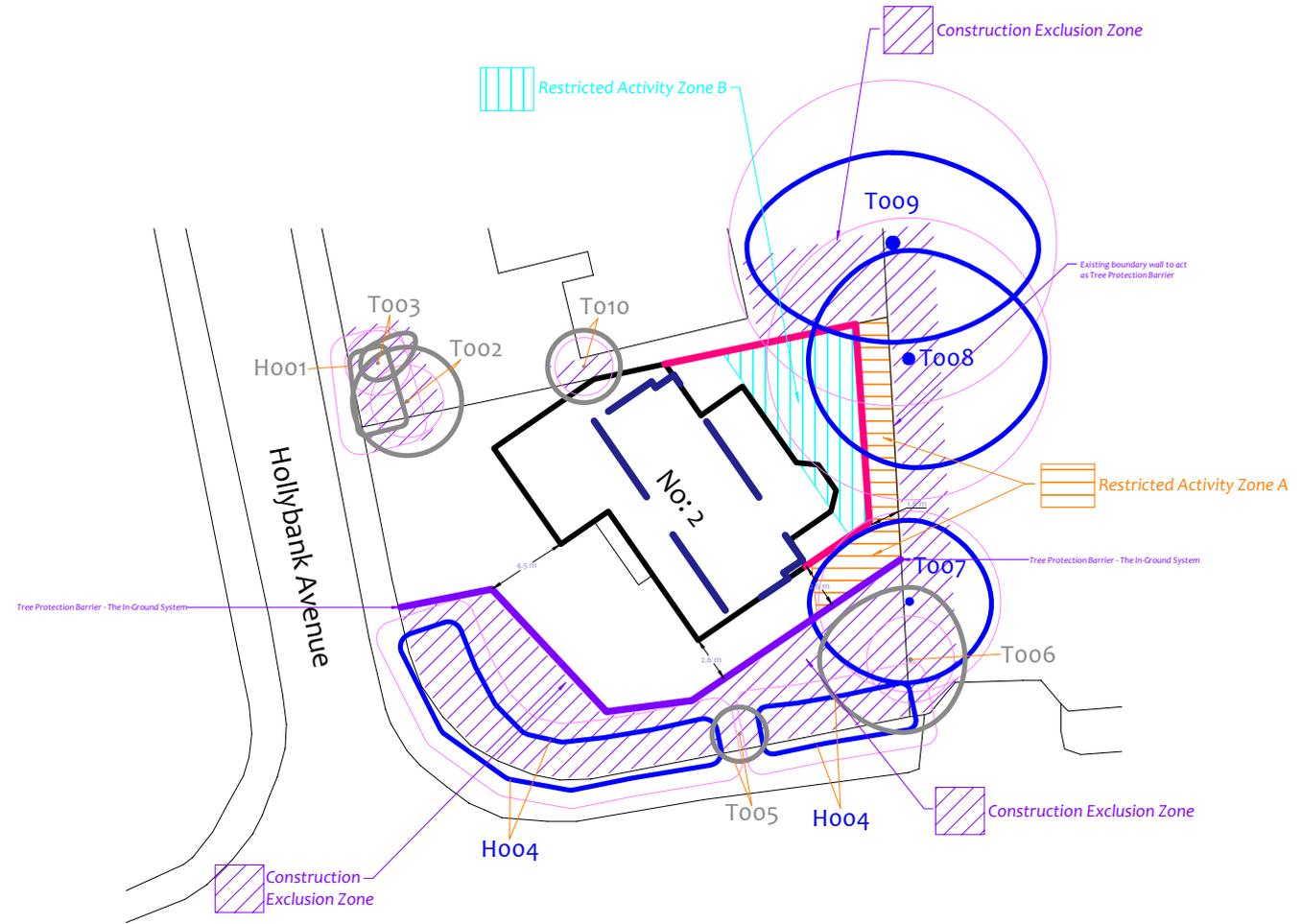
Inspection	Site Attendees	Comments
<b>Pre-Start Desk-top</b> To occur prior to any works taking place on the site.	N/A.	Project Manager and Site Manager to study this Method Statement & contact the Project Arborist to clarify all protection measures.
<b>Pre-Start Meeting</b> After tree works completed & 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 protection fencing locations & specification checked. Ground protection measures checked. 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 provided by the arborist and sent to the local authority tree officer by the project manager.
<b>Overseeing Activities in Restricted Activity Zones &amp; Construction Exclusion Zones</b> Applies to all activities where arboricultural supervision is specified within this Method Statement, including demolition, soil stripping, removal of hard surfaces, excavation for new surfacing, foundations, service trenches etc.	Site Manager, Project Arborist.	Two weeks' notice to be given prior to commencement. Excavation to be as specified in this Method Statement. Excavations to be recorded and photographed. Mitigation measures to be employed specified by the project arborist.
<b>Post-Construction Meeting</b> Post external construction activity but prior to removal of fencing & landscaping operations.	Site Manager, Project Arborist. Tree Officer invited.	Retained trees inspected. Ground conditions assessed and mitigation measures agreed where appropriate. Further landscaping operations and restrictions to be agreed.

# Tree Data Schedule

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)	Crown Spread (m) N W E S	Scaled Tree Diagram (m)	Notes	Recommendations (Independent of any development proposals)		Vigour		Amenity Value	
								Priority	Inspect Freq (yrs)	Physiological Condition		Life Expectancy (yrs)	
										Structural Condition	Retention Category		
H001	Semi-Mature <b>Beech</b> Fagus sp.	5.5	0	12	2.5 2.5 2.5		Position: Situated on third party land. Form: Lightly trimmed to 2m. Defects: <b>No significant defects observed.</b> Other: Limited inspection, dimensions estimated.	No action required.		Moderate	Low		
								n/a	3	Good	40+	C	
T002	Semi-Mature <b>Ash</b> Fraxinus sp.	7.5	3	17	3 3 3		Position: Situated on third party land. Form: Twin stemmed. Defects: <b>No significant defects observed.</b> Other: Limited inspection, dimensions estimated.	No action required.		Moderate	Low		
								n/a	3	Good	20-40	C	
T003	Semi-Mature <b>Apple</b> Malus sp.	5	2.5	15	1 1 2.5		Position: Situated on third party land. Form: Unbalanced crown. Defects: <b>No significant defects observed.</b> Other: Limited inspection, dimensions estimated.	No action required.		Moderate	Low		
								n/a	3	Good	40+	C	
H004	Semi-Mature <b>Leyland Cypress</b> X Cuprocypris leylandii.	5.5	0	17	1 1 1.5		Form: Hedgerow. History: No significant pruning. Defects: <b>No significant defects observed.</b>	No action required.		Moderate	Moderate		
								n/a	3	Good	40+	B	
T005	Semi-Mature <b>Japanese Maple</b> Acer palmatum.	3.5	0	13	1.5 1.5 1.5		Form: Balanced crown. Defects: <b>No significant defects observed.</b>	No action required.		Moderate	Low		
								n/a	3	Good	40+	C	
T006	Semi-Mature <b>Goat Willow</b> Salix caprea.	7	1	20	4 5 4		Position: Situated on third party land. Form: Multiple stemmed. Defects: <b>No significant defects observed.</b>	No action required.		Moderate	Low		
								n/a	3	Good	40+	C	
T007	Early-Mature <b>Horse Chestnut</b> Aesculus hippocastanum.	12	4	42	4.5 5.5 4.5		Position: Situated on third party land. Form: Twin stemmed at 3.5m. History: Crown lifted. Defects: <b>No significant defects observed.</b> Other: Limited inspection, dimensions estimated.	No action required.		Moderate	Moderate		
								n/a	3	Good	40+	B	
T008	Mature <b>Sycamore</b> Acer pseudoplatanus.	17	8	65	6 5.5 6		Position: Situated on third party land. Form: Twin stemmed at 6m. History: Crown lifted. Defects: <b>Minor deadwood.</b> Other: Limited inspection, dimensions estimated. Epicormic growth to circa 4m.	No action required.		Moderate	High		
								n/a	1.5	Good	40+	B	
T009	Mature <b>Horse Chestnut</b> Aesculus hippocastanum.	16	5.5	75	5 8 5.5		Position: Situated on third party land. Form: Multiple stemmed at circa 3m. History: Crown lifted. Defects: <b>No significant defects observed. Ivy covered to circa 4m.</b> Other: Limited inspection, dimensions estimated.	No action required.		Moderate	High		
								n/a	1.5	Good	40+	B+	
T010	Semi-Mature <b>Apple</b> Malus sp.	4.5	1	13	2 2 2		Position: Situated on third party land. Defects: <b>No significant defects observed.</b> Other: Limited inspection, dimensions estimated.	No action required.		Moderate	Low		
								n/a	3	Good	40+	C	



**Proposed Ground Floor Extension (Pink)**  
**Proposed Second Floor Extension (Blue)**



**Personnel and Accountability**

This table should be completed at the Pre-Start Meeting or earlier

Position	Name	Contact Phone & email	Roles
Project Manager	TBC at Pre-Start site meeting	Insert Details	Liaising with site manager & project arborist regarding any potential issues relating to trees (including pre-start clarification of the Arboricultural Method Statement). Scheduling of meetings, excavations and inspections (including project arborist and local authority tree officer where applicable). 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. Reporting to the local authority following site inspections and any variation or incidents.
Site Manager	TBC at Pre-Start site meeting	Insert Details	Day to day monitoring of tree protection measures. Induction of all contractors. Reporting to the Project Manager and the Appointed Arborist of any incidents or potential variations to the agreed tree protection measures.
Project Arborist	Crown Tree Consultancy	08000 14 13 30 0203 797 7449 info@crowntrees.co.uk	Liaising with LPA Tree Officer over technical arboricultural matters. Upon instruction the arborist shall inspect the tree protection barriers including ground protection measures and produce a short report for the project manager to submit. Upon instruction the arborist shall attend any specified site visits and inspections and produce a short report for the project manager to submit.
Additional Contact	Insert Details	Insert Details	Insert Details