CROWN 08000 14 13 30

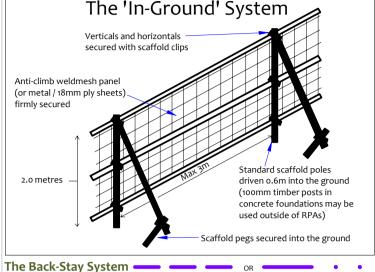
Arboricultural Method Statement

Site: 1 Pinecote Drive, Sunningdale, SL5 9PS Date: 14/03/2024 Revision: 1 CCL ref No: 11068D Client: Bellview Group Limited

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 Ground Protection Measures 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 In-Ground System This system may be installed where indicated by a solid purple line on the Tree Protection Plan. It shall remain 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 shall consist of 24mm OSB boards laid at double

clips. The system is illustrated in the diagram to the right and is based on BS 5837 guidelines.



This system may be installed where indicated by a solid or 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 should be able to withstand occasional knocks by machinery and should 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

concrete feet and clipped together with anti-tamper couplers. Two couplers should be used, spaced at least 1m apart. Alternate panels should be attached to a diagonal back stay connected to an 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 should total not less than 32kg. Where it is not possible to install diagonal struts (such as very close to a hedge) then the front feet shall be secured using ground pins or ballast.

The 'Back Stay System' 2m X 3.5m weldmesh (or sheet metal) panels linked with antitamper couplings

Each panel attached to a back stay which is founded in an additional foot or mesh tray as illustrated Minimum 32kg ballast to retain rear foot or tray (including the weight of the foot/tray) Alternate front feet to be secured with

Notices

ground pins or additional

ballast

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 authorised personnel.

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:

- 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) shall also require a suitable load spreading surface. Removal of existing structures such as walls, steps and hard surfaces (where
 No machinery in excess of 2m shall pass beneath the canopy of any tree without being carefully
- obtaining approval from the local authority.
- Existing ground levels shall be retained undisturbed or raised by no more than Existing ground levels shall be retained unuscured of large of the set of the within 0.5m of any tree stem.
- Underground services shall not be installed in this area without prior consultation measures are adequate to ensure no soil compaction or contamination occurs. All hazardous with the project arborist and a methodology agreed and approved by the local materials (including non-essential cement products) shall be forbidden. authority.
- If roots are encountered in excess of 25mm diameter, they shall be retained
 Hazardous Materials wherever possible and protected with damp sacking during times that they are Any mixing of cement based unearthed. Any roots in excess of 10mm that need to be severed shall be pruned with materials shall take place

• Storage of materials and spoil shall be avoided unless it has been agreed with the Exclusion Zones and Restricted project arborist that the ground protection measures are adequate to ensure no soil Activity Zones. Where cemen compaction or contamination occurs. All hazardous materials (including non-essential is to be mixed at considerable cement products) shall be forbidden.

Restricted Activity Zone B

No fires shall be permitted.

- Within this zone, demolition is proposed close to tree roots. The following restrictions shall apply:
 - shall be installed as soon as demolition is complete.) Mechanical excavators shall not operate within the Restricted Activity Zone unless
 - from on a suitable load spreading surface. • Where demolition is required beneath tree canopies, the mechanical excavator shall Underground Services be carefully marshalled to ensure overhanging branches are not damaged. No underground services (including soak-aways) shall be located in any part of the Construction
 - towards adjacent trees A fine compression spray shall wet the masonry during these operations in order to
 Site Hoarding
 - minimise dust levels. • Excessive dust levels alighting on trees shall be hosed off using a fine compression If site hoarding shall be installed over the Root Protection Area of any tree, the following restrictions spray at the end of each day.
 - Foundations within (or immediately adjacent to) Root Protection Areas will be Ground levels shall be maintained as existing. removed by excavating on the inside of the foundation first and pulling away from • Post holes shall not exceed 300mm x 300mm. the trees. No excavation shall take place between the foundation and the tree • No post hole shall be excavated within 1.5m of any tree stem. rooting area.
 - Surfaces shall be lifted using hand tools or a mechanical excavator operating from outside the Restricted Activity Zone and carefully marshalled. Evert effort shall be • Roots in excess of 25mm shall be retained wherever possible. made to leave the soils immediately beneath the surface undisturbed.

Restricted Activity Zone C

- a ground bearing slab foundation is proposed. The following restrictions are proposed: • Excavation shall be limited to the removal of the existing vegetation or turf layer and **Siting of Cabins** shall be undertaken using hand tools only.
 - Only hand tools shall be used during the excavation.
 - sacking during times that they are unearthed. Any roots that need to be severed shall be pruned with secateurs. • The slab may be supported on narrow diameter piles (maximum diameter 300mm).

 Before installing such piles, their location shall be determined by trial pits excavated
 The cabins shall be founded on a suitable load spreading surface. Before installing such piles, their location shar be determined by and pile between to a depth of 600mm using hand tools. Trial pit dimensions should not exceed 300mm x 300mm. If any roots in excess of 25mm diameter are encountered, the pile
 Use of Heavy Plant shall be relocated.



Author: Joe Taylor FdSc (Arboriculture), M. Arbor A

Removal of Tree Protection Barriers

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

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 where engineers consider it adequate to spread the load should be robust enough to withstand occasional knocks by plant machinery and, once installed, of construction traffic. Otherwise it shall be reinforced or replaced with adequate ground protection

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 shall first be made even by raking, plywood boards) are secured to this scaffold framework using sturdy clips e.g. standard scaffold 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 into the ground and/or onto blocks (to raise the scaffold) with additional couplings to make the framework secure.

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

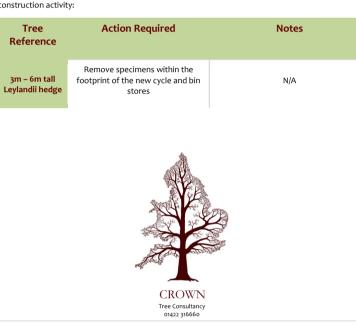
If a piling mat is required, engineer's specifications should be referred to. The ground protection measures shall be installed and approved before commencement of demolition and construction activity and before the arrival of plant machinery or materials. They shall remain in place until all heavy construction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

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 nstalled, and excavation shall be limited to that required for new planting. Furthermore, the project arborist shall be consulted prior to any works being undertaken in these zones • 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. 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.

Tree Works Specification

The following table specifies the tree works which will be required prior to the commencement of



General Restrictions - Throughout the Site

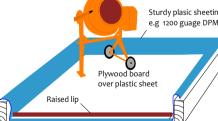
Preparatory Works

lo demolition, removal of surfaces, or soil stripping shall commence until the protective fencing and ground protection measures are installed to the satisfaction of the local authority. Fires

• No vehicles or plant machinery shall park or operate unless a suitable load spreading No fires shall be permitted beneath any tree canopy or within 5m of any tree stem, branch or foliage. surface is in place. The load spreading surface shall be installed and/or maintained as specified under the heading **Ground Protection Measures**. This shall remain in place

- In order to protect tree canopies the following restrictions shall apply throughout the site: marshalled in order to ensure that no branches are damaged.
- from outside the Restricted Activity Zone and carefully marshalled by the project If materials require installation or delivery beneath tree canopies, this shall be done without the No excavation shall occur in this zone without consulting the project arborist and
 If materials are to be installed or delivered close to tree canopies (but not beneath them) and a use of overhead cranes.
 - crane is required, they shall be carefully marshalled in order to ensure that branches are not

No new permanent or temporary structures shall be erected other than those shown on the planning application documents unless approved by the local authority. 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



• Demolition shall not commence until the protective barriers (including ground protection measures) are installed to the satisfaction of the local authority. (Where demolition is necessary to enable the installation of tree protection barriers, this shall

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

Alternatively, hand tools may be used.
 No significant masonry or timber shall be permitted to fall outside of buildings towards adjacent traces

shall apply:

- Post holes shall 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 10mm shall be pruned with sharp secateurs.
- 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). Site hoarding may be installed in place of the specified tree protection measures subject to the Within this zone, foundations for the new Cycle and Bin Store are proposed. To minimise the impact on tree roots, approval of the local authority with regard to its location and specification.

Cabins shall be located outside of Construction Exclusion Zones and Restricted Activity Zones unless Only hand tools shall be used during the excavation.
 If roots in excess of 25mm diameter are encountered close to the edge of the excavation, they shall be retained wherever possible and protected with damp sacking during times that they are unearthed. Any roots that need to be severed shall
 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.

All machinery operatives are to be made aware of any Construction Exclusion Zones and Restricted Activity Zones that apply to this site. All machinery operatives are to respect these zones and ensure that no damage occurs to trees due to the careless use of machinery. Mechanical excavators should have tracks rather than wheels to help spread their load. They should be carefully marshalled when working close to tree canopies.

Scaffolding

If scaffolding is required in areas containing ground protection measures, the protective boards shall need to remain in-situ and be strengthened and stabilised to bear the weight of scaffold poles. Prior to the installation of any scaffolding within 0.5m of any tree branches, the project arborist shall be consulted to specify any pruning works that may be required.



08000 14 13 30

Timing of Operations

ivity within the site shall be phased according to the following chronology								
Order	Phase	Activity						
1st.		Planning conditions relating to trees to be ide						
2nd.	Pre-	Install the tree protection barriers (fencing an Protection Measures).						
3rd.	Construction Phase	Pre-Commencement site meeting: Tree prote Variances to be agreed. Location of undergrou restrictions to be agreed. Scope of future insp						
4th.		Arboricultural Method Statement to be revised						
		Protection measures confirmed ac						
5th.	Demolition and	Demolish existing structures and remove exis						
6th.	Construction Phase	Install new buildings, hard surfaces and service Method Statement.						
7th.		Site meeting with project arborist. Landscap mitigation agreed. Ground conditions to be a						
8th.	Post-	Remove protective barriers (fencing and grou						
oth.	Construction Phase	Undertake restricted landscaping operations v						

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						
Site Manager	Insert Details	Insert Details						
Project Arborist	Crown Tree Consultancy	08000 14 13 30 0203 797 7449 Info@crowntrees.co.uk						
Local Authority	Royal Borough of Windsor and Maidenhead	trees@rwbm.gov.uk						
Additional Contact	Insert Details	Insert Details						
Additional Contact	Insert Details	Insert Details						

Site Monitoring Schedule

Inspection	Site Attend		
Pre- Start Desk-top	N/A.		
To occur prior to any works taking place on the site.			
Pre-Start Meeting	Site manager, project ar		
After tree works completed & tree protection barriers / ground protection measures installed. Prior to any other activity, inc. demolition & soil stripping.	Tree Officer invited.		
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 projec arborist.*		
Post-Construction Meeting	Site manager, project ar		
Post external construction activity but prior to removal of fencing & landscaping operations.	Tree Officer invited.		

Tree Data Schedule

Reference G=Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)		rown ead (m) N		Scaled Tree Diagram (m)	(Inde			ndations ent of any proposals)	Vigour Physiological Condition	Amenity Value Life Expectancy (yrs)
a o =		Ъ	Cro	Dian	vv	s					Priority	Inspect Freq (yrs)	Structural	
T1	Mature Oak Quercus robur.						[25					Tied (913)	Moderate	Moderate
		20	7	80	6	26	-		Position: Form: History:	Situated within the rear garden. Single stemmed and vertical with an unbalanced crown. Occasional pruning wounds due to crown lifting (now healed).	No action required.		Good	40+
						9.5	ŀ,		Defects:	No significant defects observed.	n/a	3	Good	A
	Semi-Mature						_[² 5						Low	Moderate
	Oak Quercus robur.					4	-		Position: Form:	Situated within the rear garden. Single stemmed with a slight lean and an unbalanced crown.	No action	required.		
T2		22	12	50	1	8 4	-		History: Defects:	No evidence of significant pruning. No significant defects observed.			Good	40+
						7	,		Defects	No significant defects observed.	n/a	3	Fair	В
	Early-Mature						[25	AND DE LA	D. It.				Moderate	Moderate
T3	Oak	22		62	6.5	5	ŀ	2.000	Position: Form:	Situated within the rear garden. Multi-stemmed at 6m with a slightly unbalanced crown.	No action required.		Good	40+
13		22	2	02	0.5	3 4.5	ľ	300	History: Defects:	No evidence of significant pruning. No significant defects observed.				
	Quercus robur.						_[,				n/a	3	Good	A
	Early-Mature	Early-Mature					[25	and the second second	Position:	Situated within the rear garden.			Moderate	Moderate
T4	Oak	19	4	46	6	6 8	8		Form: History: Defects:	Single stemmed and vertical with a slightly unbalanced crown. No evidence of significant pruning. No significant defects observed.	No action required.		Good	40+
	Quantus as has					4							Good	
	Quercus robur.							I			n/a	3	GOOU	A -
	Early-Mature					9	- 5		Position: Form: History:	Situated within the rear garden. Single stemmed and leaning with an unbalanced crown. No evidence of significant pruning. Minor deadwood throughout.	No action required.		Low	Moderate
T5	Oak Quercus robur.	20	7	48	2.5	9 8	t						Good	40+
						3	-		Defects:				Good	В
					_) [25				n/a	3		
	Early-Mature Oak Quercus robur.	22				5	6		Form: History:	Twin-stemmed at 8m with a balanced crown. No evidence of significant pruning.	No action required.		Moderate	Low
Т6			3	56	7								Good	40+
						6	- 1	100	Defects:	No significant defects observed.			Fair	A
	Semi-Mature						_ <u>[</u>) [² 5				n/a	3		
	Oak					5	Ì.	1	Position: Form:	Situated on third party land.	No action	required	Moderate	Moderate
Т7		25	9	55	3	5	-		History:	Single stemmed and vertical with a slightly unbalanced crown. No evidence of significant pruning.	No action	required.	Good	40+
						8	ŀ,		Defects:	No significant defects observed.	n/a	3	Good	В
	Semi-Mature						_[² 5						High	Moderate
	Beech 10 Fagus sylvatica.					4	-		Position:	Situated on third party land.	No action	required.		
Т8		10	5	30	5	4 5	4		Other:	Limited inspection, dimensions estimated.			Good	40+
)	5	T			n/a	3	Good	B
Т9	Semi-Mature						2 ²	_	Position:	Situated on third party land.			High	Moderate
	Beech Fagus sylvatica.	10	6	20		4	-		Form: History:	Single stemmed and vertical with a well-formed crown. No evidence of significant pruning.	No action	required.	Good	
		10	U	30	5	3. 4.5			Defects:	No significant defects observed.				40+
							[,		Other:	Limited inspection, dimensions estimated.	n/a	3	Good	B

outside the Construction distances from trees and wate run-off cannot enter Roo Protection Areas, then no further special measures are required. Otherwise, provisior shall be made to ensure that the mixing area is contained so

that no water run-off enters

be done in a sympathetic manner as set out below, and the tree protection barriers All other chemicals hazardous to tree health, including petrol and diesel, shall be stored in suitable

