

**Appendix 1 Tree survey and explanatory notes**

**Tree Survey Schedule**

**Site:** Chequers Lt  
 Bardfield  
**Date of Survey:** 12/10/2023  
**Arboricultural Consultant/Surveyor:** J Choat  
**Weather:** Rain, overcast,  
 light wind

Tree ref	Species Common and Scientific	Height in m	Stem diameter in mm	Radial distance required for RPA	Branch spread				Height of crown clearance in m	Age class	Ground condition	Water demand	Observations	Preliminary management recommendations	Works urgency	Estimated remaining contribution in years	Category grading
					N	E	S	W									
H1	Hawthorn Crataegus monogyna	2	75	0.9	0.5	0.5	0.5	0.5	0	EM	Bare soil	High	Maintained at current height and spread.	Maintain to current height and spread.	0	10	C1
G1	Poplar Populus Sp	25+	650	7.8	5	5	5	5	8	M	Bare soil	High	Rooted highway side of boundary fence. 2 trees Sharing crown, both similar dimensions. Although in reasonable condition, the species is generally a problematic tree to manage within proximity to highway and dwelling / associations due to susceptibility to wind loading, poor defence mechanisms and prolific growth rate.	None	0	20	B1
T1	Norway Spruce Picea abies	18	580	6.96	4	4	4	4	1	M	Grass	Moderate	Crown encroaching outbuilding.	None	0	20	B1
G2	Scots Pine Pinus sylvestris	20	660	7.92	3	3	3	3	5	M	Grass	Moderate	2 trees within group. Slight leaning stems.	None	0	20	A1
G3	Leyland cypress Cupressus x leylandii	15	400	4.8	3	3	3	3	2	M	Bare soil	High	Group of 5 trees, sharing crown, 2 rooted highway side of boundary fence.	None	0	20	C1
T2	Norway Spruce Picea abies	17	350	4.2	4	4	4	4	1	M	Grass	Moderate	Slightly sparse crown. Ivy clad stem to 2m.	None	0	20	C1
T3	Scots Pine Pinus sylvestris	18	580	6.96	3	3	3	3	5	M	Concrete	Moderate	Sparse crown. Occasional deadwood. Distorted stem taper at higher aspect of stem.	None	0	20	B1
G4	Norway Spruce Picea abies	17	350	4.2	4	4	4	4	1	M	Grass	Moderate	3rd party trees, unable to fully assess. 2 within group, sharing crown.	None	0	20	C1
T4	Willow Salix Sp	10	300	3.6	4	4	4	4	2	EM		High	3rd party, unable to assess.	None	0	20	C1
H2	Laurel Prunus rotundifolia	2	100	1.2	0.5	0.5	0.5	0.5	0	EM	Bare soil	Moderate	Maintained at current height and spread.	Maintain to current height and spread.	3	20	C1

T5	Walnut Juglans regia	9	700	8.4	3	3	3	3	4	M	Bare soil	Moderate	Stem forks at 0.5m. Sparse crown. Rooted in shrub bed within paved access area.	None	0	15	B1
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## Explanatory Notes

### Referencing

Each tree is given a unique reference number and plotted on the attached plans for clear identity. Individual trees are referenced as T1, T2 etc., Groups G1, G2 etc. Hedgerows H1, H2 etc. and Woodlands W1, W2 etc.

### Species

All species are recorded using common names. Identification is made using experience and knowledge.

### Tree dimensions

Tree height is measured and recorded in meters and taken from the base of the stem to the tip of the crown. Height is estimated using experience and knowledge.

Diameter at Breast Height (DBH) is measured at approximately 1.5m from the ground up the stem and is measured and recorded in millimeters. DBH is measured accurately using a diameter tape.

Crown spread is measured in meters from the stem to the extent of the crown spread to each compass point (NESW). Crown spread is estimated using experience and knowledge.

Crown clearance is the height from ground level to the lowest branch and is measured in meters. Crown clearance is estimated using experience and knowledge.

### Age class

Age class falls in to 4 categories:

Y	Young
EM	Early Mature
M	Mature
OM	Over Mature

### Observations

The biological condition of the tree is assessed and noted. Notable defects are recorded; fruiting bodies, cankers, die back, exudates, etc. are recorded.

The mechanics of the tree are assessed and noted. Notable defects are recorded; buckling, rib formation, stresses, bulges, soil cracks, large cavities or wounds, tight branch junctions, etc. are recorded.

### Preliminary management recommendations

Tree management is recommended following the assessment of physiological and structural condition. Recommended works may include, no work required, crown reduction, crown lift, fell, crown thin, monitor etc.

### Estimated remaining contribution in years

An estimate of remaining life expectancy recorded in years. Estimated remaining contribution is made using experience considering the structural and physiological condition of the tree, nuisance, previous management, etc.

### Category grading and colour coding on plan

A (Green square) high quality and value

B (Blue square) moderate quality and value

C (Grey square) low quality and value

U (Red Square) those that cannot be retained as living trees

## **Sub categories**

- 1 arboricultural values
- 2 landscape values
- 3 cultural values, including conservation

## **Works priority**

- 1 Works required immediately to make the tree safe
- 2 Works required within 60 days
- 3 Works required as part of routine operations
- 0 no works required

TPS

**Appendix 2 Tree survey and constraints plan**







## Appendix 3 Barrier construction profile

Permission to reproduce extracts from BS 5837:2012 is granted by the British Standards Institution (BSI). No other use of this material is permitted. The complete British Standard can be purchased from the BSI online shop: <http://shop.bsigroup.com/en/ProductDetail/?pid=00000000030213642>

Diagram 1 Weldmesh panels with block supports pegged to brace light impact

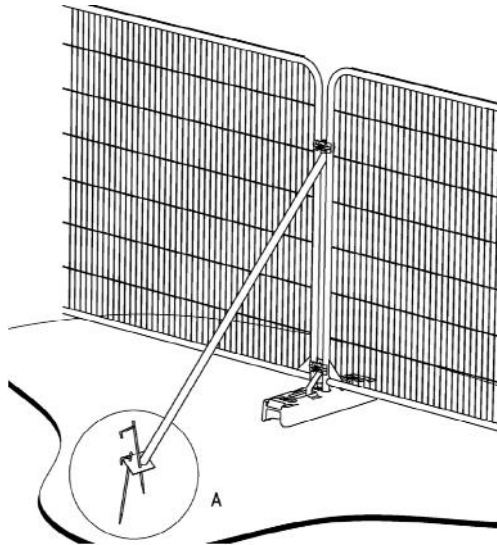


Diagram 2 Weldmesh panels with block supports and further block supports to brace intermediate impacts

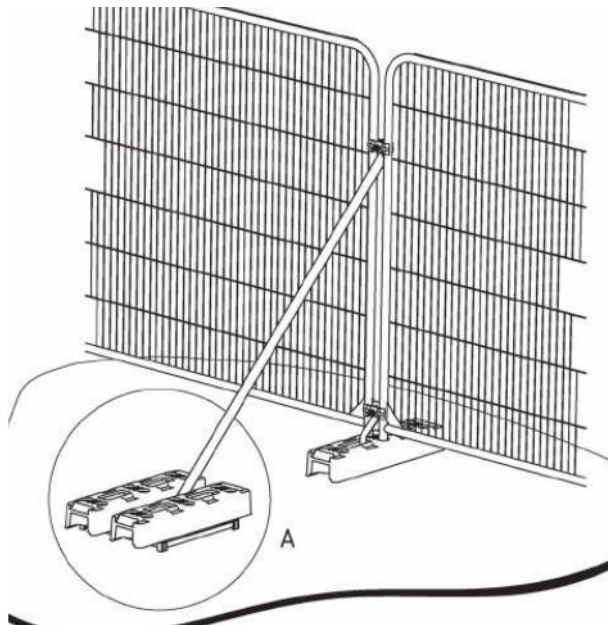
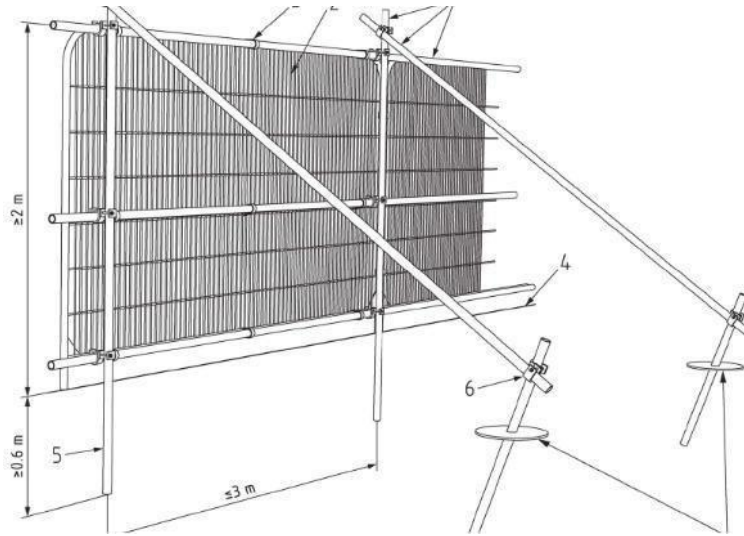




Diagram 3 Weldmesh panels with scaffold frame posts driven into the ground to brace heavy impacts



# **Construction Exclusion Zone**

**These trees have been retained and protected as part of the planning permission for this site.**

**Any breach of the protection will result in enforcement action from the Local Authority.**



**Appendix 5 Tree protection plan**





**Key Arboricultural Work Phasing**

All methods statements below and annotations to the plan are to be read in conjunction with the arboricultural impact assessment for TPSQU0156.

The installation and removal of the new protection is to be supervised by the project arboriculturist and confirmed as correct as per the monitoring and inspection section 22.5.3.3.2.8 within the accompanying impact assessment for TPSQU0156. Further monitoring measures during the construction phase are recommended within the monitoring specifications, the condition of the tree protection will be assessed during the works.

Phase 1 - Tree works - See section 7 of accompanying impact assessment, to include removals within the RPA.

Phase 2 - Build diversion path barrier and ground protection

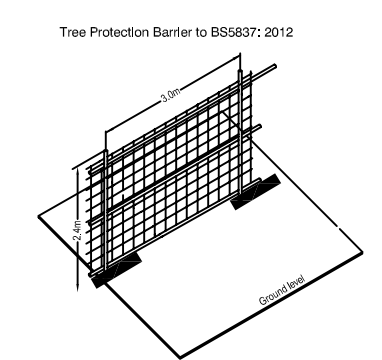
- Erect scaffold frame on one or more ground levels and location shown to the left.
- Install fence panels, 100mm timber stock supports and cables to be installed to each additional ground mounting continuous barrier. A gap for garden maintenance may be created but to under the 100mm.
- Cable for weatherproof informative to barrier.

Phase 3 - Intermittent build phase

Phase 4 - Soft and hard landscaping above barrier protection

- Allow barriers to remain in place for the duration of the plan and as much of the system as possible while allowing access to arrive for the approval of the local authority and within an accompanying impact assessment.

Phase 5 - Removal of barrier protection.



Protection barriers should be erected prior to the commencement of any site clearance, demolition or development. No storage within the construction exclusion zone (ceiling) areas.

The fencing should offer a scaffold framework in accordance with the detail shown above.

Vertical access should be for use in timber stock supports and cables laid or clamped with scaffold clamps, to the adjacent panel.

The fencing should be erected at or beyond the perimeter of the RPA as shown on the tree protection plan and should not be removed unless agreed with the project arboriculturist and local planning authority.

Information should be placed on panels at 1.5m to height at 2m intervals, facing outwards, information should clearly provide details of the protection zone and access procedures.

**Construction Exclusion Zone**

No access is permitted.

The trees beyond this protected zone are subject to planning conditions and statutory protection.

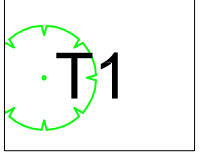
Any breach of this zone will result in enforcement action by the Local Authority.

**Soft surfaces within RPA**

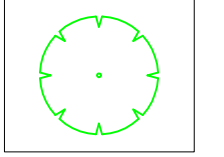
- No tractor mounted or heavy plant retaining machinery is to be used unless working on surface for the purpose to reduce ground level and prevent soil compaction.
- Cultivation is to be completed using manual hand tools only.
- Existing soils to be used, where additional soil is required it should be contained free, well drained and suitable for use and structure for the site and planting existing trees/shrubs.
- Damage to roots is to be avoided, large structural roots may be seen at or near the surface and where they occur from the crown of the tree down to the surface. After around the root diameter structural roots to be kept to a minimum 200mm diameter.
- Changes to ground levels are to be avoided, any lowering or raising of levels should be carried out using a suitable method statement that provides continued soil conditions of gas exchange and water penetration.
- Planting is to be done with care and to avoid covering tree roots, generally, planting should be completed outside the RPA.

**Legend:**

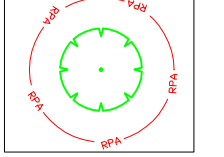
Tree reference



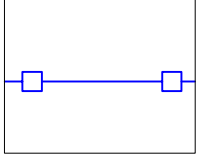
Tree and crown spread



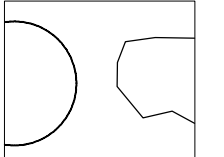
Root protection area



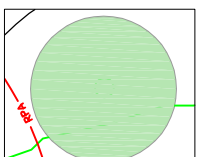
Temporary barrier protection



Trees / hedges to be removed

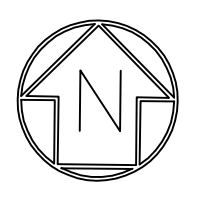


Replacement trees



**Notes:**

This drawing was produced in colour, a monochrome copy should not be relied upon.



Project: Chequers, Bell Lane, Lt Bardfield

Drawing Title: Tree Protection Plan

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Scale: 1:200 @ A1

Drawing Number: TPSQU0156 TPP

TPS

**Appendix 6**

Example of arboricultural monitoring form



# Tree Planning Solutions

## Contract Monitoring Form

### Details

Date	
Time	
Surveyor	
Client	
Site	
Ref	

### Trees

Tree ref	Condition	Recommendations

### Barrier

Tree ref	Barrier type	RPA radial distance as per planning permission	Actual barrier radial distance at site	Condition of barrier	Condition of signage	Comments

# Tree Planning Solutions

## Ground Protection

Tree ref	Type of ground protection installed	RPA distance as per planning permission	Actual distance of ground protection at site	Condition of ground protection	Comments

## Additional Comments