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## **Arboricultural Impact Assessment**

### **& Method Statement:**

Land to rear of Sturt Avenue  
Camelsdale  
Haslemere  
Chichester  
West Sussex  
GU27 3SJ

### **REPORT PREPARED FOR:**

Casa Coevo Group Ltd.  
Moorgate House  
7b Station Road West  
Oxted  
Surrey  
RH8 9EE

### **REPORT PREPARED BY**

James Bell  
MSc. (Env). Arbor. A. Tech. Cert.

Ref: jwmb/rpt2/sturtavenue/AIAAMS

Date: 30<sup>th</sup> November 2023

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## 1.0 Introduction

### 1.1 Purpose & Use of the Method Statement

- 1.1.1 This updated arboricultural impact assessment & method statement report has been prepared for submission to Chichester District Council (CDC) to accompany an updated detailed planning application for residential development comprising 9 dwelling houses together with associated access, infrastructure, parking and landscaping at 'Land to rear of Sturt Avenue', Camelsdale, Haslemere, Chichester, West Sussex, GU27 3SJ. This statement is intended to demonstrate the feasibility of construction without harm to the retained tree resource on and adjoining the site. See the material accompanying this report for full scheme details.
- 1.1.2 This document lays down the methodology for any proposed works that may have an effect upon the trees on and adjacent to the site. It is essential within the scope of any contracts related to the development proposals that this method statement is observed and adhered to. It is recommended that this document form part of the work schedule and specification issued to the building contractors and can be used to form part of the contract.
- 1.1.3 Copies of this document should be available for inspection on site. The developer will inform the local planning authority within twenty-four hours if the designated arboriculturist is replaced.

### 1.2 Terms of Reference

- 1.2.1 I am instructed by Casa Coevo Group Ltd. to prepare an arboricultural impact assessment & method statement report to accompany an updated detailed planning application for residential development comprising 9 dwelling houses together with associated access, infrastructure, parking and landscaping at 'Land to rear of Sturt Avenue', Camelsdale, Haslemere, Chichester, West Sussex, GU27 3SJ with reference to British Standards publication: Trees in relation to design, demolition & construction - Recommendations (BS5837:2012).
- 1.2.2 The tree protection plan at Appendix A is based on Site Layout drawing reference STU001 Rev P2 Scale 1:500@A3 from The Douglas Stephen Partnership, 134 Old Street, London, EC1V 9BL.

### 1.3 Development Proposals & Impact Assessment

- 1.3.1 See section 1.1.1, Appendix A & accompanying material for full details of the revised development proposals. The tree survey was updated by James Bell on 22<sup>nd</sup> November 2023.
- 1.3.2 The proposed layout has been changed to address one reason for refusal in appeal reference APP/L3815/W/22/3298478: specifically, plot 9 has been adjusted to move the dwelling out of flood risk zones 2 & 3. This repositioning falls within the acceptable parameters of the retained existing trees' root protection areas (RPA): the encroachment into the RPA of tree 25 is marginal and acceptable.
- 1.3.3 The following trees: 1, 2, 11, 12, 27, 31, 34, 35, 44, 47, 52, 53, 55-59, 62-73, 77-84 & 88-102 will be removed to allow or facilitate development. The loss of these largely low-quality trees is an acceptable impact in the context of the site & these proposals and is likely to have minimal amenity impact on the surrounding area. New planting has been provided on a 1:1 basis in mitigation – see Appendix A and accompanying material from ACD Environmental for details. This planting will improve boundary screening and reinforce the sylvan character of the proposals.

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- 1.3.4 Minimum areas of driveway, patio/terrace or parking within the RPA of retained trees will be constructed to a 'No Dig' specification. These areas are shown on the tree protection plan at Appendix A.
- 1.3.5 RPA encroachments from dwellings or studio footprints are generally low & acceptable. Dwellings can be constructed to a conventional specification - no mitigation is necessary. The studio on plot 7 can be constructed on a shallow concrete raft to minimise the risk of root damage to tree 60.
- 1.3.6 The great majority of site works will take place beyond the RPA of retained trees and canopies. Retained trees will be protected throughout the course of development by fencing to the specification recommended by BS5837:2012 - see Appendix C for details.

#### 1.4 Sequence of Works

1.4.1 The sequence of works should be as follows:

- tree works required to allow or facilitate development – see Appendix B for details
- erection of tree protection barrier (TPB) on advised line(s) and laying of ground protection as indicated
- laying of service runs
- driveway construction (including “No-Dig” sections as indicated), followed by main construction of nine dwellings, studios and associated infrastructure
- removal of TPB & ground protection
- soft landscaping - see Appendix A and accompanying material from ACD Environmental for full details

#### 1.5 Site Supervision

1.5.1 An individual, e.g. the Site Agent, must be nominated to be responsible for all arboricultural matters on site. This person must:

- be present on-site for the majority of the time
- be aware of the arboricultural responsibilities
- have the authority to stop any work that is causing, or has the potential to cause, harm to any retained tree
- be responsible for ensuring that all site operatives are aware of their responsibilities toward trees on site and the consequences of the failure to observe these responsibilities
- make immediate contact with the local authority and/or the designated arboriculturist in the event of any tree-related problems occurring, whether actual or potential

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## 1.6 Site Monitoring

- 1.6.1 The site agent will be responsible for monitoring all arboricultural works, inspecting protective fencing and monitoring any works within exclusion zones. The designated arboriculturist will be available for site visits on a basis to be agreed upon between the client and planning authority when/if appropriate or required, i.e. if required by condition. It is recommended that a record of site visits is maintained for inspection on-site and copies forwarded to the developer/agent and to the local planning authority. A certificate of practical completion can be produced for sites deemed by all parties to merit this.
- 1.6.2 It is the responsibility of the client to advise Arbortrack when the project begins and to forward on the approval notice when published on the planning portal, should supervision requirements be stipulated.
- 1.6.3 Principal contact information: 1/. James Bell. Arbortrack Systems Ltd. Arboricultural Consultant. 07986 122074. 2/. Mr Henry Whitby. CDC Arboricultural Officer. 01243 534522. Email: hwhitby@chichester.gov.uk. 3/. Mr Jonathan Walton. Planning Consultant. 07768 968030. Email: jonathan.walton@opus.works. 4/. Client: Casa Coevo Group Ltd. Kevin Soobadoo. 07596 420584. 5/. Site agent details to be advised.

## 1.7 Statement Adoption

- 1.7.1 It is recommended that, in due course, acceptance of the recommendations in this report is demonstrated by, for example, the architect specifying in writing to the building contractor that tree care conditions apply in the execution of the contract and by an estimate or written undertaking from the contractor to the architect demonstrating that the practical aspects of observation of such recommendations have been priced in.
- 1.7.2 If conflicts between any part of a tree and the building arise during development, these can often be resolved quickly and at little cost if a qualified arboriculturist is consulted promptly. Lack of such care is often apparent quickly, and the decline and death of such trees can spoil design aims and can, of course, affect saleability, as well as reflecting poorly on the construction and design personnel involved. Trees that have been the recipients of careful handling during construction add considerably to the appeal and value of the finished development.

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## 2.0 Pre-Development Site Preparation

### 2.1 Arboricultural Works

2.1.1 See Appendix B for full details of tree works required to allow or facilitate development.

### 2.2 Preparation of Surfaces

2.2.1 Areas within RPAs potentially requiring ground protection are shown in Appendix A, i.e. ground within the RPAs of trees 25, 45, 46, 60, 61, 74-76 & 85. Ground protection should be fit for purpose as per the guidance in BS5837:2012 section 6.2.3.3. The preferred specification is provided by products such as Trak Mat; see [www.multimatts.co.uk](http://www.multimatts.co.uk). Alternatively, many other treatments are available, e.g. those provided by InfraGreen Solutions: see [www.infragreen-solutions.com](http://www.infragreen-solutions.com).

2.2.2 If areas of 'No Dig' hardstanding are constructed at the end of the build, then ground protection must be used throughout the course of the build until final surfaces can be laid.

### 2.3 Installation of Tree Protective Barrier

2.3.1 The TPB must be comprised of a vertical and horizontal scaffold framework, braced to resist impacts, with vertical tubes spaced at a maximum level of 3m. On to this, weldmesh panels should be securely fixed with wire scaffold clamps: see section 6.2.2 and Figure 2 of BS5837:2012 (Appendix C). Hardboard or marine ply sheets can be used as an alternative to weldmesh panels, but these must be fixed firmly to the framework. The location of the TPB is shown in Appendix A.

2.3.2 This TPB is to be erected before any construction work commences on site, is to remain 'in situ' and undamaged for the duration of all work or each phase and is only to be removed once all work is completed. If any work other than preparatory tree work is deemed necessary prior to the erection of fencing, the designated arboriculturist should be informed to enable his/her presence to oversee the work being carried out.

2.3.3 The only other exception is the completion of soft landscaping, but if any excavations, however minor, are to be carried out as part of soft landscaping within RPAs, an arboricultural assessment must be carried out beforehand, and any arboricultural protection measures incorporated. The TPB should carry waterproof warning notices denying access within RPAs.

2.3.4 The Tree Protection Plan in Appendix A illustrates where the protective fencing should be located to form the boundary of the Tree Protection Zone (TPZ). The TPZ is an exclusion zone, and suitable steps should be taken to prevent access by pedestrians and vehicles. The storage of any work materials and equipment should be located outside of the TPZ.

### 2.4 Pre-Development Site Inspection

2.4.1 At the instigation of the client/site agent or CDC, upon the erection of the fencing, the designated arboriculturist will meet the relevant local authority member on-site to check the standard of the work(s). If there are any amendments required to the protective fencing, these will be agreed upon at this meeting, confirmed in writing, and undertaken thereafter.

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### 3.0 Development Phase

#### 3.1 General Precautions

- 3.1.1 No fires shall be made on any part of the site or within 10m of the furthest extent of the canopy of any tree or group tree to be retained on-site or on land adjoining.
- 3.1.2 No spilling or pouring of fuels, oils, solvents, or tar shall be made on any part of the site.
- 3.1.3 No materials that are likely to have an adverse effect on tree health, such as oil, bitumen or cement, will be stored or discharged within 10 metres of the trunk of a tree that is to be retained.
- 3.1.4 No spillage or discharge of wet mortar or concrete shall be made on any part of the site.
- 3.1.5 No storage of materials shall be made within the protective fences.
- 3.1.6 No breaching or moving of the protective fences shall occur without the approval of the designated arboriculturist.
- 3.1.7 Alterations in levels within the tree protection fence areas shall be avoided.

#### 3.2 Root Protection Areas

- 3.2.1 The RPA is a desirable zone of protection around the trees' rooting system, and these have been marked on the plan in Appendix A. The RPAs will lie within the TPZ and, therefore, be fully fenced off (see Appendix A) unless appropriate ground protection is offered or if the impact on the RPA is deemed very low and acceptable.

#### 3.3 Site Access, Accommodation & Storage

- 3.3.1 Many site activities are potentially damaging to trees, e.g. material storage, parking, soil compaction and the use of plant machinery. In this latter example, particular care is required to ensure that the operational arcs of excavation and lifting machinery, including their loads, do not physically damage trees when in use or while accessing the site.

#### 3.4 Routing & Installation of Services

- 3.4.1 New service runs should avoid RPAs of retained trees where possible. If required, any trenches within the RPAs of site trees should be hand-dug and kept as narrow as possible. They should not extend to within 1m from the base of any retained tree trunk. Exposed roots larger than 25mm in diameter should be retained with their bark intact and, when exposed, wrapped in dry hessian sacking. A mechanical mole should ideally be used for the section beneath a tree. The mechanical device is sent through the protected area at a depth of no less than 0.6m. Machinery that can be externally lubricated by water rather than oil, etc., should be selected. The designated arboriculturist should be informed in advance of such operations so that monitoring arrangements can be undertaken.
- 3.4.2 Where crown interference with mature trees is a possibility, over-ground services will be routed in an alternative direction. In relation to this, any landscaping taking place should accommodate the presence of over-ground services and take mature tree size into account.

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### 3.5 Demolition Measures

- 3.5.1 If required, access facilitation pruning should be undertaken to prevent injurious contact between the demolition plant and the tree(s). Any such pruning should be undertaken in accordance with the British Standards publication: Tree work – Recommendations (BS3998:2010).
- 3.5.2 Demolition/removal of structures (including underground structures) within what would otherwise be an RPA should proceed with due caution to avoid unnecessary damage to trees.
- 3.5.3 All plant and vehicles engaged in demolition works (removals only), if not operating on existing hard standing, should either operate outside the RPA or should run on a temporary surface designed to protect the underlying soil structure. See section 6.2.3.3 for further details.
- 3.5.4 Where trees stand adjacent to structures scheduled for demolition, it will be necessary to undertake demolition inwards within the footprint of the existing building (often referred to as “top-down, pull back”).
- 3.5.5 If the weather is “dry,” the site should be watered down to reduce dust travelling to adjacent properties. Where levels of dust build-up on trees occur, it may be necessary to seek the advice of the designated arboriculturalist on remedial measures, e.g. hose down the tree(s) immediately following any significant accumulation of dust.
- 3.5.6 Heavy plant used to remove materials should work systematically *away from retained trees*. The aim is to ensure that spoil is removed away from RPAs, but it is very important that the original soil levels are not altered.

### 3.6 Changes in Grade

- 3.6.1 The upper layer of topsoil (top 60cm) contains the majority of a tree’s roots, and if this is disturbed by a change in ground level, serious damage can be caused. On this basis, as a minimum, level changes should be avoided within RPAs.
- 3.6.2 If any significant section of ground level requires raising within RPAs, this should be achieved using coarse, granular material such as pebbles. See section 7.4.4.4 of BS5837:2012.
- 3.6.3 If ground levels need to be altered within 1.5 metres of any tree trunk, prior agreement must be sought and given by the local authority tree officer.

### 3.7 Construction Measures

- 3.7.1 No specialist construction methods are required for the footings of the main dwellings.
- 3.7.2 The studio of plot 7 should be based on a shallow concrete raft to minimise root disturbance for tree 60.
- 3.7.3 Minimum areas of driveway/hard standing within the RPAs of trees 4-6, 8-10, 15, 16, 45, 46, 48-50, 60, 61, 74-76 & 85-87 should be constructed to a ‘No Dig’ specification - see Appendix E for additional detail. Surfaces should be porous to allow water infiltration & gaseous exchange. Various products are available with warranty & guarantees: contact providers for full details. If ‘No Dig’ surfaces are laid at the end of the build, then ground protection will be required throughout the course of the build in the areas indicated. See Appendix E for further guidance.



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### 3.8 Removal of Tree Protective Barrier

3.8.1 The protective fencing may be removed only upon completion of the development phase when all drainage and service runs have been installed and any site machinery has been removed.

### 3.9 Post Construction Landscaping

3.9.1 Following the developing phase, some trees may be subject to either landscaping or seeding beneath their canopies.

3.9.2 Any approved landscaping works should avoid the changing of ground levels or deep digging. Mechanised cultivation, such as tractor-mounted rotovation, must not be used within the RPAs of existing trees.

3.9.3 Heavy machinery should not be used in the vicinity of any retained trees.

3.9.4 If herbicides are to be used, they should be appropriate to their purpose and not be used in such a way as to damage any retained trees or vegetation.

3.9.5 Ideally, retained trees should be within a shrub area as this reduces the chances of compaction and disturbance of root systems.

## 4.0 Summary of Proposed Methods

### 4.1 Table of Impacts and Mitigation

4.1.1 The table below summarises the main areas where trees could become damaged by the proposed development and the methods that need to be adopted to prevent such damage:

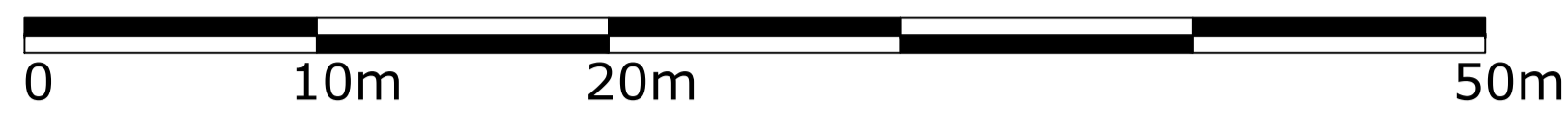
<b><u>Impact</u></b>	<b><u>Mitigation</u></b>	<b><u>Reference</u></b>	<b><u>Trees Affected</u></b>
Passage of machinery and storage of materials over RPAs	Construction of protective fencing to acceptable standards	Sections 2.3. Fencing spec Appendix C, Tree Protection Plan Appendix A	3-6, 13-26, 28, 29, 32, 33, 36-G38, 40-43, 45, 46, 48-51, 54, 60, 61, 74-76 & 85-87.
Works within RPAs of retained trees	Ground protection	Section 2.2.1	25, 45, 46, 60, 61, 74-76 & 85.
New hard standing within RPAs	New driveway/parking area/terrace installed to specialist 'No Dig' construction specification	Section 3.7.3 & Appendix E	4-6, 8-10, 15, 16, 45, 46, 48-50, 60, 61, 74-76 & 85-87

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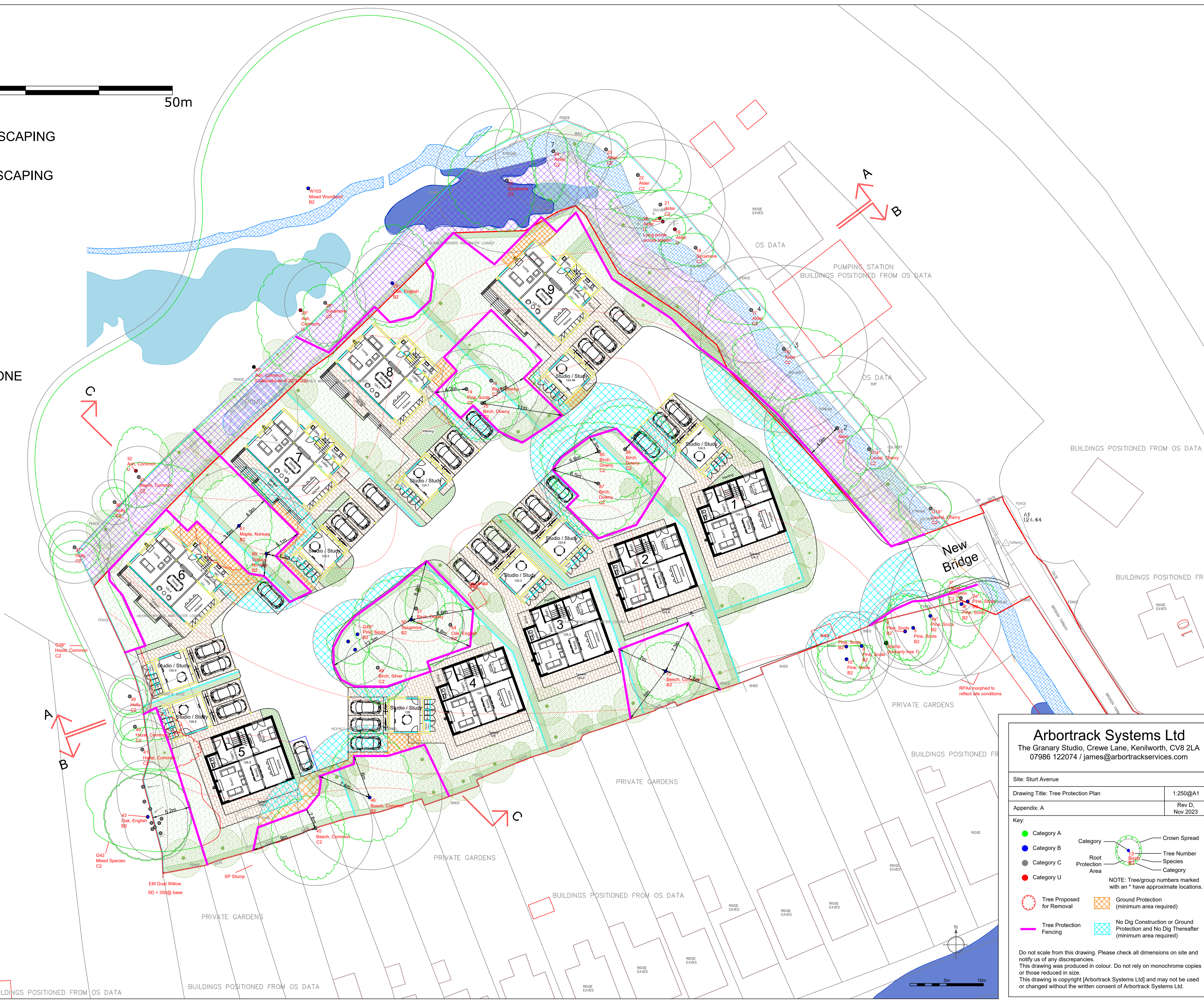
## 5.0 Completion

### 5.1 Completion Meeting

- 5.1.1 Following completion of the approved works on site, the designated arboriculturist will meet with a local authority representative and agree upon any remedial works deemed necessary (if any).
- 5.1.2 Any works agreed in the above meeting will be confirmed in writing and should be performed to BS3998:2010.
- 5.1.3 Any work proposed post-development should be checked to avoid a penalty for performing illegal work on a protected tree.



- INDICATIVE HARD LANDSCAPING
- INDICATIVE SOFT LANDSCAPING
- ADAPTED POND
- PROPOSED NEW ROAD
- EXISTING STREAM
- NEW BOUNDARIES
- ECOLOGICAL BUFFER ZONE
- EA Flood Zone 2
- EA Flood Zone 3
- INDICATIVE CONTOURS  
EACH LINE DENOTES A  
CHANGE IN LEVEL BY  
APPROXIMATELY 0.5M
- INDICATIVE PROPOSED  
PLANTING



**Arbortrack Systems Ltd**  
 The Granary Studio, Crewe Lane, Kenilworth, CV8 2LA  
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Site: Sturt Avenue  
 Drawing Title: Tree Protection Plan 1:250@A1  
 Appendix: A Rev D, Nov 2023

**Key:**

Category A	Category B	Category C	Category U				

NOTE: Tree/group numbers marked with an \* have approximate locations.

Do not scale from this drawing. Please check all dimensions on site and notify us of any discrepancies.  
 This drawing was produced in colour. Do not rely on monochrome copies or those reduced in size.  
 This drawing is copyright [Arbortrack Systems Ltd] and may not be used or changed without the written consent of Arbortrack Systems Ltd.

Site: Sturt Avenue Haslemere

Date: 22nd November 2023

## Appendix B BS5837:2012 Tree Survey Schedule

Arbortrack Systems Ltd

07986 122074

Surveyor(s): James Bell

Ref: jwmb/rpt2/sturtavenue/AIAAMS



Tree No.	English Name	Height	Crown Spread				Ground Clearance	Stem Diameter	Protection Radius	Age Class	Growth Vitality	Structural Condition	B.S. Cat	Sub Cat	Useful Life	Comments
			N	S	E	W										
1	Willow, Crack	13	3	6	5	2	2	370	4.4	Early Mature	Normal	Good	C	2	20+	Swept stem Power lines through crown In reality trees 1 & 2 are codominant trunks of a single tree
2	Willow, Crack	13	5	4	3	5	2	400	4.8	Early Mature	Normal	Good	C	2	20+	Swept stem Power lines through crown In reality trees 1 & 2 are codominant trunks of a single tree
3	Hazel, Common	7.5	3	2	5	3	2	142 #	1.7	Early Mature	Normal	Good	C	2	10+	
3a	Pine, Scots	11	1.5	3	3	1.5	7	280 #	3.4	Mature	Normal	Good	B	2	20+	Minor stubs & snags Leaning to SE slightly Remote survey (RS); offsite
4	Pine, Scots	17	2.5	6	3	3	4.5	670 #	8.0	Mature	Normal	Good	B	2	20+	Minor stubs & snags Leaning to S Remote survey (RS); offsite
4a	Pine, Scots	17	5	8	3	6	4.5	780 #	9.4	Mature	Normal	Fair	B	2	20+	Slightly contorted trunk RS; offsite; on fence line between adjoining properties
5	Pine, Scots	16	4.5	4.5	2.5	4	5	430 #	5.2	Early Mature	Moderate	Fair	B	2	20+	RS A sparser than normal canopy Offsite

Site: Sturt Avenue Haslemere

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			N	S	E	W										
6	Pine, Scots	17	5	4	3	3	7.5	430 #	5.2	Early Mature	Normal	Good	B	2	20+	Minor stubs & snags A sparser than normal canopy RS; offsite
7	Pine, Scots	17	4	4	2	2	8	430 #	5.2	Early Mature	Normal	Good	B	2	20+	RS; offsite; removed
8	Pine, Scots	11	0	3	1.5	1.5	5	390 #	4.7	Early Mature	Moderate	Fair	B	2	20+	Poor form Bark damage @ 7.5m RS; offsite
9	Pine, Scots	11	0	5	2.5	4	4.5	400 #	4.8	Early Mature	Normal	Fair	B	2	20+	Deadwood Very poor form RS; offsite
10	Pine, Scots	17	2.5	5	4	4	8	480 #	5.8	Early Mature	Moderate	Fair	B	2	20+	Ivy smothered RS; offsite
11	Sycamore	14	8	4.5	5	7	2.5	420	5.0	Early Mature	Moderate	Fair	C	2	20+	Large bark wound (photo) Straddling boundary: ownership unclear
12	Willow, Sallow	14	9	7	7	5	3	980 #	11.8	Early Mature	Normal	Poor	C	2	10+	Ivy smothered Regenerated trunks from prone/fallen original tree

Site: Sturt Avenue Haslemere

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			N	S	E	W										
13	Beech, Common	12	4	4	4	4	1	420	5.0	Early Mature	Normal	Good	B	2	>40	
G14	Laurel, Cherry	7.5	3	3	3	3	0	237 #	2.8	Early Mature	Normal	Good	C	2	20+	Riverbank clumps
15	Alder	18	5	9	5	9	5	827	9.9	Mature	Normal	Fair	C	2	20+	Minor ivy
16	Alder	18	3	7	8	7	5	948 #	11.4	Mature	Normal	Fair	C	2	20+	RS Drawn habit / low taper branches Stands on eastern bank of stream: offsite? Ivy clad
17	Alder	17	3	2	2	6	4	602 #	7.2	Mature	Normal	Fair	C	2	20+	Ivy smothered RS
18	Sycamore	15	2	2.5	2.5	5	4.5	388 #	4.7	Early Mature	Normal	Fair	C	2	20+	RS Offsite On eastern bank of stream
19	Alder	15	2	2	1.5	4	6.5	482 #	5.8	Mature	Poor	Poor	U		<10	RS Offsite 2 snapped out trunks

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			N	S	E	W										
20	Alder	3					612 #	7.3	Early Mature	Poor	Poor	U		<10	Lying prone across stream	
21	Alder	14	2	2	7	7	1.5	735 #	8.8	Mature	Normal	Poor	C	2	20+	Broken branches RS Some small branches have failed over stream; unchanged since original survey
22	Alder	18	2.5	2.5	6	7	4.5	603 #	7.2	Early Mature	Normal	Fair	C	2	20+	RS Offsite
23	Alder	19	2.5	2.5	3	4	4.5	681 #	8.2	Early Mature	Normal	Fair	C	2	20+	RS Offsite
24	Alder	22	3	7	2	3	6	660	7.9	Mature	Normal	Fair	C	2	20+	RS Drawn habit Co dominants from 2.2m
25	Sycamore	18	7	7	4	8	6	819 #	9.8	Mature	Normal	Fair	C	2	20+	Included bark in main stem unions Ivy clad
26	Oak, English	16	8	6	6	5	7	450	5.4	Early Mature	Normal	Good	B	2	>40	

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Tree No.	English Name	Height	Crown Spread				Ground Clearance	Stem Diameter	Protection Radius	Age Class	Growth Vitality	Structural Condition	B.S. Cat	Sub Cat	Useful Life	Comments
			N	S	E	W										
27	Holly	7	5	1	1.5	1.5	1	160	1.9	Semi-mature	Normal	Poor	C	2	10+	Leaning into T26
28	Sycamore	16	2.5	6	3	3	3.5	460 #	5.5	Early Mature	Normal	Fair	C	2	20+	Offsite RS
29	Ash, Common	22	7	9	6	6	8	700 #	8.4	Mature	Poor	Poor	U		<10	Advancing ash dieback disease Offsite RS
30	Ash, Common								0.0							Ivy smothered RS Offsite; collapsed SW into site
31	Poplar spp	14	1.25	1.25	1.25	1.25	4.5	250	3.0	Early Mature	Moderate	Fair	C	2	10+	<i>R.ponticum</i> 5m to east Mistletoe
32	Ash, Common	21	6	5	5	3	9	490 #	5.9	Early Mature	Poor	Fair	U		<10	Offsite RS Well established ash dieback disease
33	Beech, Common	9.5	2	8	7.5	2	1.5	350	4.2	Early Mature	Normal	Poor	C	2	10+	Offsite Poor form Squirrel damage; ownership unclear; wire fence absorbed into trunk



Site: Sturt Avenue Haslemere

Date: 22nd November 2023

## Appendix B BS5837:2012 Tree Survey Schedule

Arbortrack Systems Ltd

07986 122074

Surveyor(s): James Bell

Ref: jwmb/rpt2/sturtavenue/AIAAMS



Tree No.	English Name	Height	Crown Spread				Ground Clearance	Stem Diameter	Protection Radius	Age Class	Growth Vitality	Structural Condition	B.S. Cat	Sub Cat	Useful Life	Comments
			N	S	E	W										
34	Ash, Common	13	1.5	3	3	3	2.5	300	3.6	Early Mature	Poor	Poor	U	<10	Ivy clad	
35	Cherry, Bird	8	3	2	3	3	1.5	180	2.2	Semi-mature	Normal	Good	C	2	20+	
36	Holly	13	2	2	2	2	2.5	255 #	3.1	Early Mature	Moderate	Fair	C	2	10+	Offsite RS
37	Holly	13	3.5	3.5	3.5	3.5	2.5	410 #	4.9	Early Mature	Moderate	Fair	C	2	10+	Offsite RS
G38	Hazel, Common	8	2	7.5	3	3	1.5	294 #	3.5	Early Mature	Normal	Fair	C	2	10+	Offsite trees; tree (hazel) beside offsite shed at southern end of group overhangs site by approx 6m; some holly present
39	Holly	10	2.5	2.5	2.5	2.5	0	242 #	2.9	Early Mature	Normal	Good	C	2	20+	Offsite RS EM hazel stool stands 3m to NNW on boundary
40	Hazel, Common	8	2	2	6.5	2	0.5	245 #	2.9	Early Mature	Normal	Fair	C	2	10+	Largest stem growing to NE over site

Site: Sturt Avenue Haslemere

Date: 22nd November 2023

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Tree No.	English Name	Height	Crown Spread				Ground Clearance	Stem Diameter	Protection Radius	Age Class	Growth Vitality	Structural Condition	B.S. Cat	Sub Cat	Useful Life	Comments
			N	S	E	W										
41	Hazel, Common	10	3	3	8	3	0	343 #	4.1	Early Mature	Normal	Poor	C	2	10+	Broken branches Remove overhanging broken branches
G42	Mixed Species	14	2.5	2.5	8	8	3	307 #	3.7	Mature	Normal	Fair	C	2	10+	Holly & hazel; overhangs site by up to 7m
43	Oak, English	14	6	6	6	6	3.5	490 #	5.9	Early Mature	Normal	Good	B	2	>40	RS Offsite 1.25m # from boundary; SM/EM yew present with a hawthorn; holly, hawthorn & hazel are within site
44	Willow, Goat	11	5	4	5	5	1.5	520	6.2	Mature	Moderate	Fair	C	2	10+	Decay at trunk base
45	Beech, Common	8	4.5	7	4	6	2	650 #	7.8	Mature	Normal	Fair	C	2	20+	Indifferent form Offsite RS
46	Beech, Common	18	9	6	6	6	2	822	9.9	Mature	Normal	Fair	B	2	20+	Bifurcation @ 1.40m Branch removed @ 3.5m to S Logs & building materials piled up @ base; R.ponticum 5m to NE
47	Pine, Scots	24	4	5	5	7	2.5	840	10.1	Mature	Normal	Fair	B	2	20+	Slight lean to W; part of group Ivy smothered

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Tree No.	English Name	Height	Crown Spread				Ground Clearance	Stem Diameter	Protection Radius	Age Class	Growth Vitality	Structural Condition	B.S. Cat	Sub Cat	Useful Life	Comments
			N	S	E	W										
48	Birch, Silver	12	3	5	4	2	3.5	380	4.6	Mature	Normal	Fair	C	2	10+	Ivy smothered Indifferent form One element within the group
G49	Pine, Scots	20	2	2	2	3	10	400 #	4.8	Early Mature	Moderate	Fair	B	2	10+	A sparser than normal canopy Drawn habits 47a=380, 47b=430, 47c=390; ivy has been severed
50	Sycamore	23	6	7	7	8	5	590	7.1	Mature	Normal	Good	B	2	20+	Deadwood Ivy clad
51	Birch, Downy	11	4	2	4	1.5	6.5	250	3.0	Semi- mature	Moderate	Fair	C	2	10+	Suppressed by nearby tree Ivy clad
52	Willow, Goat	8	7	0	5	1	3	190	2.3	Semi- mature	Normal	Poor	U		<10	Poor form Broken leader @ 3m 2 other collapsed trunks to E
53	Hawthorn, Common	8	3	2	2	1.5	2	150	1.8	Semi- mature	Normal	Good	C	2	10+	
54	Oak, English	8	3	2.5	4	2	2	160	1.9	Semi- mature	Normal	Fair	C	2	20+	Suppressed by nearby tree Squirrel damage SM holly, hawthorn & ash 2.5-4m to S

Site: Sturt Avenue Haslemere

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Tree No.	English Name	Height	Crown Spread				Ground Clearance	Stem Diameter	Protection Radius	Age Class	Growth Vitality	Structural Condition	B.S. Cat	Sub Cat	Useful Life	Comments
			N	S	E	W										
55	Sycamore	15	2.5	4	2.5	6	3.5	350	4.2	Early Mature	Normal	Good	C	2	20+	Snapped out branch @ 4m
56	Birch, Downy	20	5	8	4	4	2.5	510	6.1	Mature	Normal	Good	C	2	20+	Swept stem to west
57	Birch, Downy	20	5	3.5	3.5	3.5	9	480	5.8	Mature	Normal	Good	C	2	20+	Ivy smothered
58	Birch, Downy	14	1.25	1.25	1.25	1.25	11	210	2.5	Semi-mature	Moderate	Poor	U		<10	Leaning heavily into T61 Fell also for recommended husbandry
59	Birch, Downy	20	6	8	4	6	1	590	7.1	Mature	Moderate	Fair	C	2	10+	Ivy clad Semi-mature Norway Spruce and Downy Birch near base
60	Spruce, Norway	18	2	4	2	3	0	670	8.0	Mature	Normal	Fair	B	2	20+	Ivy smothered
61	Maple, Norway	18	7	6	4.5	6	2	670	8.0	Mature	Normal	Good	B	2	20+	Ivy clad Crimson cv

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Tree No.	English Name	Height	Crown Spread				Ground Clearance	Stem Diameter	Protection Radius	Age Class	Growth Vitality	Structural Condition	B.S. Cat	Sub Cat	Useful Life	Comments
			N	S	E	W										
62	Spruce, Norway	19	3	3	3	3	1	780	9.4	Mature	Dead	Poor	U			
63	Whitebeam	13	2	3	2	4	4.5	170	2.0	Semi-mature	Normal	Good	C	2	20+	<i>R.ponticum</i> 2.5m to NW
64	Birch, Downy	21	5	3	4	5	2.5	449	5.4	Mature	Moderate	Poor	C	2	10+	Broken branches
65	Ash, Common	19	5	1.5	4	4.5	8	390	4.7	Early Mature	Poor	Fair	U		<10	Ash dieback disease present
66	Sycamore	13	4	4	4	4	0.5	486	5.8	Early Mature	Normal	Fair	C	2	20+	Ivy smothered Topped @ 10m
67	Ash, Common	19	6	4	2	2	9	490	5.9	Early Mature	Poor	Poor	U		<10	Ash dieback disease present Trifurcation @ 1.75m Recommended husbandry 2
68	Alder	18	5	4	7	3	7.5	460	5.5	Early Mature	Normal	Fair	C	2	20+	

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Tree No.	English Name	Height	Crown Spread				Ground Clearance	Stem Diameter	Protection Radius	Age Class	Growth Vitality	Structural Condition	B.S. Cat	Sub Cat	Useful Life	Comments
			N	S	E	W										
69	Hazel, Common	9	4	4	4	4	0.5	300	3.6	Early Mature	Normal	Fair	C	2	10+	
70	Ash, Common	13	4	4	4	2	6	236	2.8	Early Mature	Poor	Poor	U		<10	Ash dieback disease present Recommended husbandry 2
71	Hazel, Common	11	6	6	7	4	2	661 #	7.9	Mature	Normal	Good	C	2	20+	
72	Birch, Silver	18	5	5	5	5	7.5	470	5.6	Mature	Normal	Good	C	2	20+	
73	Rowan								0.0							Ivy smothered Camera monitoring hole @ base; windblown to ESE
74	Pine, Scots	22	1	2	2	2	10	450	5.4	Early Mature	Moderate	Fair	C	2	20+	Drawn habit
75	Birch, Downy	22	5	5	5	5	7.5	440	5.3	Early Mature	Normal	Poor	C	2	10+	Decay in trunk Woodpecker holes @ 6m

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Tree No.	English Name	Height	Crown Spread				Ground Clearance	Stem Diameter	Protection Radius	Age Class	Growth Vitality	Structural Condition	B.S. Cat	Sub Cat	Useful Life	Comments
			N	S	E	W										
76	Birch, Downy	20	5	3	6	5	7.5	560	6.7	Mature	Normal	Good	C	2	20+	
77	Birch, Downy	20	7	7	9	6	4.5	560	6.7	Mature	Normal	Good	C	2	20+	Young hollies (5) around base
78	Willow, Goat	9	3	9	2.5	2.5	2	400 #	4.8	Mature	Poor	Poor	U		<10	Decay at trunk base Dying back (lead stem /centre)
79	Birch, Downy	18	6	4	7	6	4.5	620	7.4	Mature	Normal	Good	C	2	20+	Leaning quite heavily to N
80	Hazel, Common	8	5	3	5	2.5	1	282	3.4	Semi-mature	Normal	Good	C	2	20+	
81	Birch, Downy	22	8	2	7	7	2	547	6.6	Mature	Normal	Good	C	2	20+	
82	Birch, Downy	22	2	4	8	8	7	430	5.2	Early Mature	Normal	Good	C	2	20+	

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Tree No.	English Name	Height	Crown Spread				Ground Clearance	Stem Diameter	Protection Radius	Age Class	Growth Vitality	Structural Condition	B.S. Cat	Sub Cat	Useful Life	Comments
			N	S	E	W										
83	Birch, Downy	8	1.5	1.5	1.5	4	6	220	2.6	Semi-mature	Normal	Good	C	2	10+	Suppressed by nearby tree
84	Birch, Downy	6	1.5	1.5	1.5	4	6	180	2.2	Semi-mature	Normal	Good	C	2	10+	Suppressed by nearby tree Leaning heavily to NW
85	Birch, Downy	23	4	7	8	8	6	778	9.3	Mature	Normal	Good	C	2	10+	Asymmetry (major)
86	Birch, Downy	23	6	2	7	7	9	573	6.9	Mature	Normal	Good	C	2	20+	Asymmetry (minor)
87	Birch, Downy	14	2	7	6	6	3	610	7.3	Mature	Normal	Good	C	2	20+	Asymmetry (major) SM holly & sycamore near base
88	Birch, Downy	21	7	2	5	2	8	410	4.9	Mature	Poor	Poor	U		<10	A sparser than normal canopy Dying back (uniform) Smaller trunk collapsed to NE; 11m talk SM holly growing at base
89	Birch, Downy	17	2	9	4	4	2.5	558	6.7	Mature	Poor	Fair	C	2	10+	A sparser than normal canopy Broken branches



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Tree No.	English Name	Height	Crown Spread				Ground Clearance	Stem Diameter	Protection Radius	Age Class	Growth Vitality	Structural Condition	B.S. Cat	Sub Cat	Useful Life	Comments
			N	S	E	W										
90	Willow						0	0.0	Semi-mature	Poor	Poor	U		<10	Fallen tree with stems that have grown up from the fallen stem	
91	Birch, Downy	15	5	4	4	0	7.5	370	4.4	Early Mature	Dead	Poor	U			
92	Holly	9	2.5	2	2	1.5	1	145	1.7	Semi-mature	Normal	Good	C	2	20+	
93	Birch, Downy	14	4	0	7	0	7.5	270	3.2	Early Mature	Moderate	Fair	C	2	10+	Heavy lean to E
94	Willow, Goat	5	6	0	8	0	1	240	2.9	Early Mature	Normal	Fair	C	2	10+	Lying prone to E
95	Birch, Downy	13	1	1	6	1	6.5	250	3.0	Semi-mature	Normal	Good	C	2	10+	
96	Holly	9	2	3	4	2	1.5	302	3.6	Early Mature	Normal	Good	C	2	20+	

Site: Sturt Avenue Haslemere

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Tree No.	English Name	Height	Crown Spread				Ground Clearance	Stem Diameter	Protection Radius	Age Class	Growth Vitality	Structural Condition	B.S. Cat	Sub Cat	Useful Life	Comments
			N	S	E	W										
97	Birch, Downy	17	4	2.5	4	3.5	5.5	350	4.2	Early Mature	Normal	Fair	C	2	10+	Asymmetry (minor) Ivy clad
98	Holly	11	2.5	2.5	2.5	2.5	2	250	3.0	Early Mature	Normal	Good	C	2	20+	
99	Birch, Downy	14	7	.5	2	2	4.5	240	2.9	Semi-mature	Moderate	Fair	C	2	10+	Leaning to N
100	Birch, Downy	19	4	4	5	7	8	475	5.7	Early Mature	Poor	Poor	U		<10	Decay at trunk base A sparser than normal canopy Dying back lead stem/centre; target present if this one fails; ID bracket on trunk; collapsed into T16
101	Birch, Downy	14	2.5	2.5	4.5	2	4.5	300	3.6	Early Mature	Poor	Fair	C	2	10+	A sparser than normal canopy Borderline U category; collapsed to E
102	Willow, Goat	7.5	3	3	4	2.5	1.5	370	4.4	Mature	Moderate	Fair	C	2	10+	Decay in trunk Larger trunk removed
W103	Mixed Woodland	22	5	5	5	5	2	500 #	6.0	Early Mature			B	2	20+	Linear group comprising predominantly alder although some birch, holly, yew and scots pine are present. Located offsite beyond boundary fence.

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## Appendix B Recommended Tree Works

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Tree No.	English Name	Height	Stem Diameter	Crown Spread				BS Cat	Sub Cat	Recommended Works	Comments / Reasons
				N	S	E	W				
1	Willow, Crack	13	370	3	6	5	2	C	2	Remove	Swept stem Power lines through crown In reality trees 1 & 2 are codominant trunks of a single tree To permit development
2	Willow, Crack	13	400	5	4	3	5	C	2	Remove	Swept stem Power lines through crown In reality trees 1 & 2 are codominant trunks of a single tree To permit development
9	Pine, Scots	11	400	0	5	2.5	4	B	2	DWD	Deadwood Very poor form RS; offsite Recommended husbandry 3
11	Sycamore	14	420	8	4.5	5	7	C	2	Remove	Large bark wound (photo) Straddling boundary: ownership unclear
12	Willow, Sallow	14	980	9	7	7	5	C	2	Remove	Ivy smothered Regenerated trunks from prone/fallen original tree To permit development

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Tree No.	English Name	Height	Stem Diameter	Crown Spread				BS Cat	Sub Cat	Recommended Works	Comments / Reasons
				N	S	E	W				
27	Holly	7	160	5	1	1.5	1.5	C	2	Remove	Leaning into T26 To permit development
31	Poplar spp	14	250	1.25	1.25	1.25	1.25	C	2	Remove	<i>R.ponticum</i> 5m to east Mistletoe To permit development
34	Ash, Common	13	300	1.5	3	3	3	U		Remove	Ivy clad To permit development
35	Cherry, Bird	8	180	3	2	3	3	C	2	Remove	To permit development
G38	Hazel, Common	8	294	2	7.5	3	3	C	2	Cut back for clearance	Offsite trees; tree (hazel) beside offsite shed at southern end of group overhangs To facilitate development

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Tree No.	English Name	Height	Stem Diameter	Crown Spread				BS Cat	Sub Cat	Recommended Works	Comments / Reasons
				N	S	E	W				
40	Hazel, Common	8	245	2	2	6.5	2	C	2	Remove trunk to NE Cut back for clearance	Largest stem growing to NE over site To facilitate development
41	Hazel, Common	10	343	3	3	8	3	C	2	Remove trunk to NE: partially done Cut back for clearance	Broken branches Remove overhanging broken branches To facilitate development
G42	Mixed Species	14	307	2.5	2.5	8	8	C	2	Cut back for clearance	Holly & hazel; overhangs site by up to 7m To facilitate development
44	Willow, Goat	11	520	5	4	5	5	C	2	Remove	Decay at trunk base To permit development
46	Beech, Common	18	822	9	6	6	6	B	2	CB/CL off plot 4 studio for adequate clearance	Bifurcation @ 1.40m Branch removed @ 3.5m to S Logs & building materials piled up @ base; R. ponticum 5m to NE To facilitate development

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Tree No.	English Name	Height	Stem Diameter	Crown Spread				BS Cat	Sub Cat	Recommended Works	Comments / Reasons
				N	S	E	W				
47	Pine, Scots	24	840	4	5	5	7	B	2	Remove	Slight lean to W; part of group Ivy smothered To permit development
50	Sycamore	23	590	6	7	7	8	B	2	DWD	Deadwood Ivy clad Recommended husbandry 2
52	Willow, Goat	8	190	7	0	5	1	U		Remove	Poor form Broken leader @ 3m 2 other collapsed trunks to E To permit development
53	Hawthorn, Common	8	150	3	2	2	1.5	C	2	Remove	To permit development
55	Sycamore	15	350	2.5	4	2.5	6	C	2	Remove	Snapped out branch @ 4m To permit development

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Tree No.	English Name	Height	Stem Diameter	Crown Spread				BS Cat	Sub Cat	Recommended Works		Comments / Reasons
				N	S	E	W					
56	Birch, Downy	20	510	5	8	4	4	C	2	Remove		Swept stem to west To permit development
57	Birch, Downy	20	480	5	3.5	3.5	3.5	C	2	Remove		Ivy smothered To permit development
58	Birch, Downy	14	210	1.25	1.25	1.25	1.25	U		Fell	Remove	Leaning heavily into T61 Fell also for recommended husbandry Recommended husbandry 2
59	Birch, Downy	20	590	6	8	4	6	C	2	Remove		Ivy clad Semi-mature Norway Spruce and Downy Birch near base To permit development
60	Spruce, Norway	18	670	2	4	2	3	B	2	CL	6m	Ivy smothered To facilitate development

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Tree No.	English Name	Height	Stem Diameter	Crown Spread				BS Cat	Sub Cat	Recommended Works	Comments / Reasons
				N	S	E	W				
61	Maple, Norway	18	670	7	6	4.5	6	B	2	CB/CL 5m for clearance off plot 6	Ivy clad Crimson cv To facilitate development
62	Spruce, Norway	19	780	3	3	3	3	U		Remove	Recommended husbandry 2
63	Whitebeam	13	170	2	3	2	4	C	2	Remove	<i>R.ponticum</i> 2.5m to NW To permit development
64	Birch, Downy	21	449	5	3	4	5	C	2	Remove	Broken branches To permit development
65	Ash, Common	19	390	5	1.5	4	4.5	U		Remove	Ash dieback disease present To permit development



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Tree No.	English Name	Height	Stem Diameter	Crown Spread				BS Cat	Sub Cat	Recommended Works	Comments / Reasons
				N	S	E	W				
66	Sycamore	13	486	4	4	4	4	C	2	Remove	Ivy smothered Topped @ 10m To permit development
67	Ash, Common	19	490	6	4	2	2	U		Fell Remove	Ash dieback disease present Trifurcation @ 1.75m Recommended husbandry 2 To permit development
68	Alder	18	460	5	4	7	3	C	2	Remove	To permit development
69	Hazel, Common	9	300	4	4	4	4	C	2	Remove	To permit development
70	Ash, Common	13	236	4	4	4	2	U		Fell Remove	Ash dieback disease present Recommended husbandry 2 To permit development

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Tree No.	English Name	Height	Stem Diameter	Crown Spread				BS Cat	Sub Cat	Recommended Works	Comments / Reasons
				N	S	E	W				
71	Hazel, Common	11	661	6	6	7	4	C	2	Remove	To permit development
72	Birch, Silver	18	470	5	5	5	5	C	2	Remove	To permit development
73	Rowan									Remove	Ivy smothered Camera monitoring hole @ base; windblown to ESE
77	Birch, Downy	20	560	7	7	9	6	C	2	Remove	Young hollies (5) around base To permit development
78	Willow, Goat	9	400	3	9	2.5	2.5	U		Remove	Decay at trunk base Dying back (lead stem /centre) To permit development

Site: Sturt Avenue Haslemere

Date: 22nd November 2023

## Appendix B Recommended Tree Works

Arbortrack Systems Ltd

07986 122074

Surveyor(s): James Bell

Ref: jwmb/rpt2/sturtavenue/ATAAMS



Tree No.	English Name	Height	Stem Diameter	Crown Spread				BS Cat	Sub Cat	Recommended Works	Comments / Reasons
				N	S	E	W				
79	Birch, Downy	18	620	6	4	7	6	C	2	Remove	Leaning quite heavily to N To permit development
80	Hazel, Common	8	282	5	3	5	2.5	C	2	Remove	To permit development
81	Birch, Downy	22	547	8	2	7	7	C	2	Remove	To permit development
82	Birch, Downy	22	430	2	4	8	8	C	2	Remove	To permit development
83	Birch, Downy	8	220	1.5	1.5	1.5	4	C	2	Remove	Suppressed by nearby tree To permit development

Site: Sturt Avenue Haslemere

Date: 22nd November 2023

## Appendix B Recommended Tree Works

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07986 122074

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Ref: jwmb/rpt2/sturtavenue/AIAAMS



Tree No.	English Name	Height	Stem Diameter	Crown Spread				BS Cat	Sub Cat	Recommended Works	Comments / Reasons
				N	S	E	W				
84	Birch, Downy	6	180	1.5	1.5	1.5	4	C	2	Remove	Suppressed by nearby tree Leaning heavily to NW To permit development
88	Birch, Downy	21	410	7	2	5	2	U		Remove	A sparser than normal canopy Dying back (uniform) Smaller trunk collapsed to NE; 11m tall SM holly growing at base To permit development
89	Birch, Downy	17	558	2	9	4	4	C	2	Remove	A sparser than normal canopy Broken branches To permit development
90	Willow		0					U		Remove	Fallen tree with stems that have grown up from the fallen stem To permit development
91	Birch, Downy	15	370	5	4	4	0	U		Remove	To permit development

Site: Sturt Avenue Haslemere

Date: 22nd November 2023

## Appendix B Recommended Tree Works

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07986 122074

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Ref: jwmb/rpt2/sturtavenue/AIAAMS



Tree No.	English Name	Height	Stem Diameter	Crown Spread				BS Cat	Sub Cat	Recommended Works	Comments / Reasons
				N	S	E	W				
92	Holly	9	145	2.5	2	2	1.5	C	2	Remove	To permit development
93	Birch, Downy	14	270	4	0	7	0	C	2	Remove	Heavy lean to E To permit development
94	Willow, Goat	5	240	6	0	8	0	C	2	Remove	Lying prone to E To permit development
95	Birch, Downy	13	250	1	1	6	1	C	2	Remove	To permit development
96	Holly	9	302	2	3	4	2	C	2	Remove	To permit development

Site: Sturt Avenue Haslemere

Date: 22nd November 2023

## Appendix B Recommended Tree Works

Arbortrack Systems Ltd

07986 122074

Surveyor(s): James Bell

Ref: jwmb/rpt2/sturtavenue/AIAAMS



Tree No.	English Name	Height	Stem Diameter	Crown Spread				BS Cat	Sub Cat	Recommended Works	Comments / Reasons
				N	S	E	W				
97	Birch, Downy	17	350	4	2.5	4	3.5	C	2	Remove	Asymmetry (minor) Ivy clad To permit development
98	Holly	11	250	2.5	2.5	2.5	2.5	C	2	Remove	To permit development
99	Birch, Downy	14	240	7	.5	2	2	C	2	Remove	Leaning to N To permit development
100	Birch, Downy	19	475	4	4	5	7	U		Fell Remove	Decay at trunk base A sparser than normal canopy Dying back lead stem/centre; target present if this one fails; ID bracket on trunk; collapsed Recommended husbandry 2
101	Birch, Downy	14	300	2.5	2.5	4.5	2	C	2	Remove	A sparser than normal canopy Borderline U category; collapsed to E Recommended husbandry 3

Site: Sturt Avenue Haslemere

Date: 22nd November 2023

## Appendix B Recommended Tree Works

Arbortrack Systems Ltd

07986 122074

Surveyor(s): James Bell

Ref: jwmb/rpt2/sturtavenue/AIAAMS



Tree No.	English Name	Height	Stem Diameter	Crown Spread				BS Cat	Sub Cat	Recommended Works	Comments / Reasons
				N	S	E	W				
102	Willow, Goat	7.5	370	3	3	4	2.5	C	2	Remove	Decay in trunk Larger trunk removed To permit development

## Appendix B

### Notes on Tree Survey Schedule:

- **Height** describes the approximate height of the tree measured in metres from ground level.
- The **Crown Spread** refers to the crown radius in metres from the stem centre and is expressed as an average of **NSEW** aspect if symmetrical.
- **Ground Clearance** is the height in metres of crown clearance above adjacent ground level.
- **Clear Stem Height** is the distance between trunk base and first branch separation measured in metres.
- **Stem Diameter** is the diameter of the stem measured in millimetres at 1.5m from ground level for single stemmed trees. See section 4.6 for details of treatment for multistems.
- **Protection Radius** is a radial distance in metres measured from the trunk centre.
- **Growth Vitality** - **Normal** growth, **Moderate** (below normal), **Poor** (sparse/weak), **Dead** (dead or dying tree).
- **Structural Condition** - **Good** (no or only minor defects), **Fair** (remediable defects), **Poor** - Major defects present.
- **B.S. Category** refers to (British Standard 5837:2012 Table 1) and refers to tree/group quality and value; '**A**' - High, '**B**' - Moderate, '**C**' - Low, '**U**' - Unsuitable for Retention.
- **Sub Cat** refers to the retention criteria values where **1** is mainly **arboricultural** qualities, **2** is mainly **landscape** qualities and **3** is mainly **cultural** values including conservation.
- **Useful Life** is the tree's estimated remaining contribution in years.
- **First Significant Branch (FSB)** is the height of the first significant branch above ground level taken at the trunk separation point.



### Notes on Recommended Tree Works:

- **1, 2, 3** Urgent (ASAP), Standard (6-12 months), Non-Urgent (2-3 years)
- **CB** Cut back to boundary/clear from structure
- **CL#** Crown lift to given height in meters
- **CT#%** Crown Thinning by identified %
- **CCL** Crown clean (remove deadwood/crossing & hazardous branches & stubs)
- **CR#%** Crown Reduce by given maximum percentage (of outermost branch & twig length)
- **DWD** Remove deadwood
- **Fell** Fell to ground level
- **FInv** Further Investigation (generally with decay detection equipment)
- **Pol** Pollard or re-pollard
- **Mon** Monitor ongoing condition (annually by staff/owners & every 2-3 years by consultant). Svr Ivy/Clr Bs Sever Ivy/clear base and re-inspect base/stem for concealed defects

Appendix C Tree Protective Fencing Detail (from BS5837:2012)

Figure 2 Default specification for protective barrier

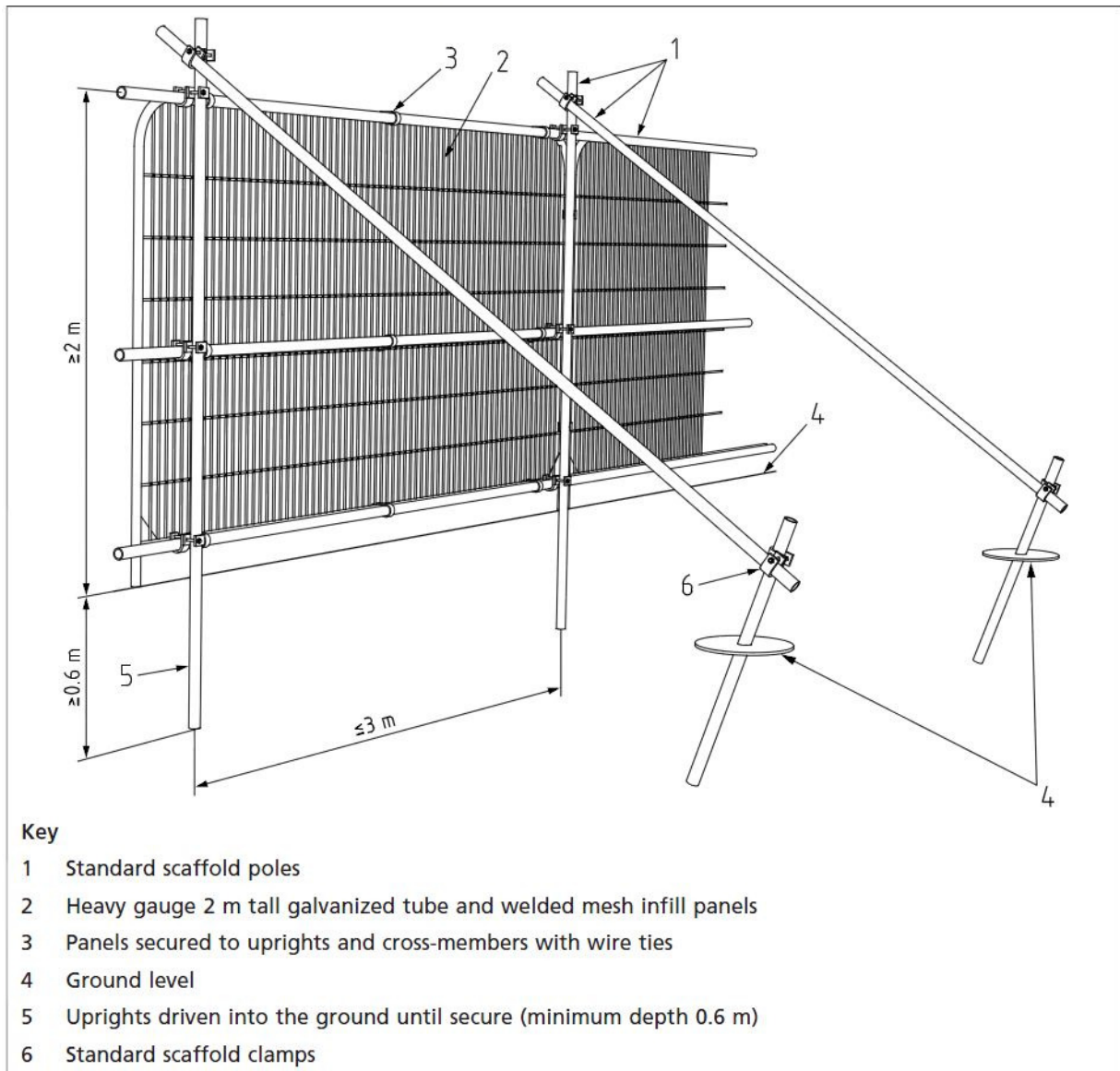
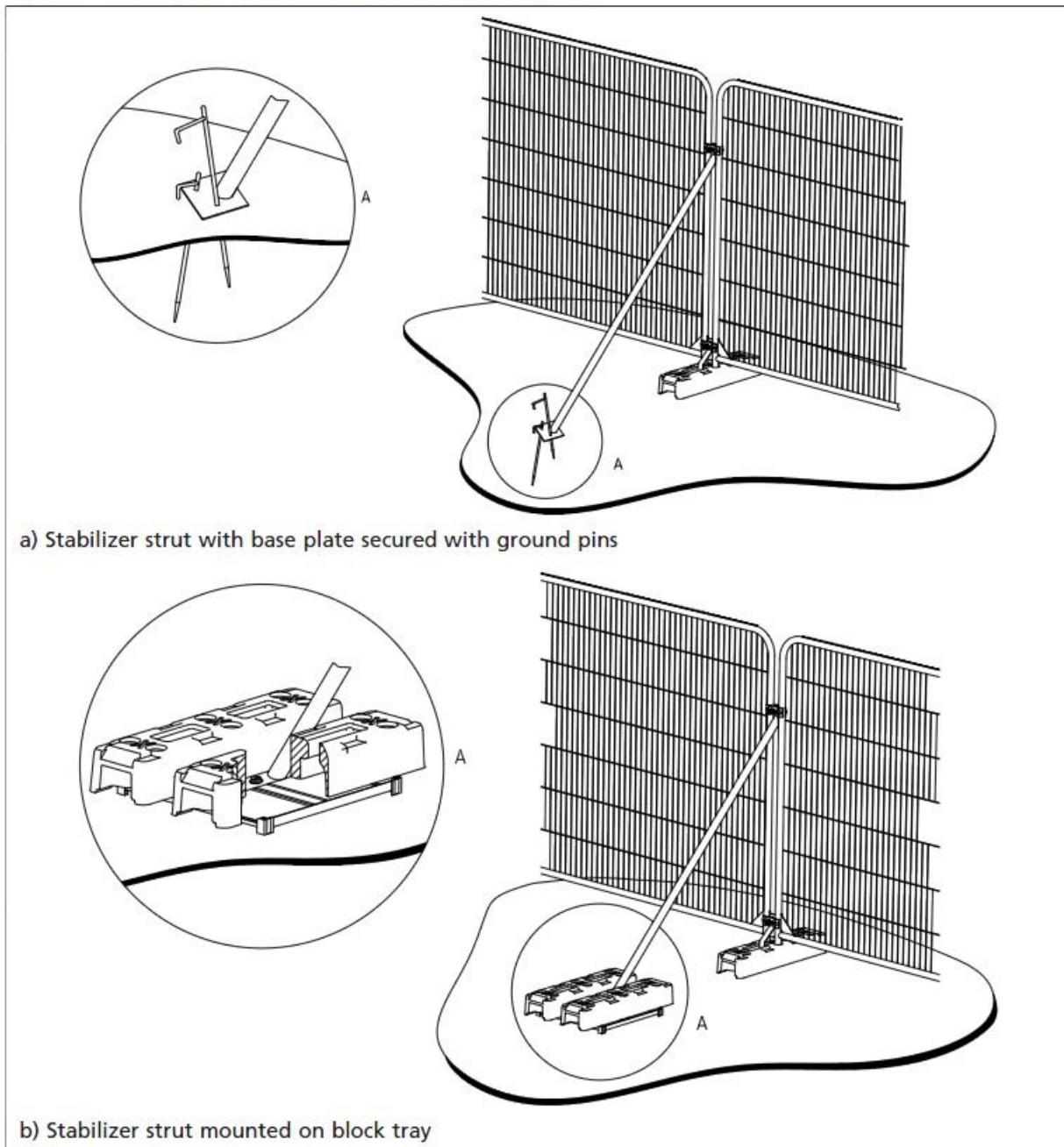


Figure 3 Examples of above-ground stabilizing systems



a) Stabilizer strut with base plate secured with ground pins

b) Stabilizer strut mounted on block tray

## Appendix D

### 1.0 Glossary of Terms & Abbreviations

<b>Canker</b>	Disease damaged area of a tree, usually caused by fungus or bacteria.
<b>Co-dominant Stem</b>	A stem which has grown in direct competition to the main stem and which has formed a substantial size influencing the appearance of the tree.
<b>Crown Lift</b>	The removal of the lowest branches, usually to a given height. It allows more residual light and greater clearance underneath for vehicles etc.
<b>Crown reduce</b>	The reduction of a tree's height or spread while preserving its natural shape.
<b>Crown thin</b>	The removal of some of the density of a tree's crown, usually 5-25% allowing more light through its canopy and reducing wind resistance.
<b>Deadwood</b>	The removal of all dead, dying and diseased branches from a tree. Also, wood which is dead.
<b>Dieback</b>	Where branches are beginning to show signs of death usually at the tips in the crown.
<b>Epicormic shoots</b>	Small branches that grow in uncharacteristic clusters around the base or the stem of a tree, usually as a result of bad pruning or some other stress factor.
<b>Formative pruning</b>	The trimming of a tree to remove weaknesses and irregularities which may lead to problems. The formative pruning operation is aimed at reducing the potential for future weaknesses or problems within the tree's crown.
<b>Included bark</b>	Where the bark on two adjoining branches or stems is growing tight together, forming a joint with limited physical strength.
<b>Pollarding</b>	A method of tree management in which the main trunk of the tree is cut at about 4m, and the resulting branches are then cropped on a regular basis.
<b>Remedial pruning</b>	The removal of old stubs, deadwood, epicormic growth, rubbing or crossing branches and other unwanted items from the tree's crown. Sometimes referred to as crown cleaning.
<b>Topping</b>	Topping is a form of pruning that removes terminal growth leaving a 'stub' cut end. Topping causes serious health problems to a tree.

## **2.0 General Guidelines**

- 2.1 All work must be to BS 3998:2010 – Tree work-Recommendations
- 2.2 Staff carrying out the work must be qualified, experienced and ideally be Arboricultural Association approved contractors, and should be covered by adequate public liability insurance.
- 2.3 Any defects seen by a contractor or the client that were not apparent to the consultant must be brought to the consultant's attention immediately.
- 2.4 No liability can be accepted by the consultant in respect of the trees unless the recommendations of this method statement are carried out under the supervision of the designated arboriculturist.
- 2.5 It is advisable to have trees inspected by designated arboriculturist regularly. On this site it is recommended that these inspections are made every year.

## Appendix E

### 'No Dig' Construction-Guidance Notes

- Install F4M Geotextile Separation Fabric over cleared levelled ground surface N.B. ensure that existing material is carefully removed and levels altered minimally: infill with salt free sharp sand where necessary.
- The cellular confinement system (e.g. 1 x 100 mm 'ProtectaWeb' (or equivalent) cellular confinement system subject to site requirements & manufacturer's recommendations) is then laid on the membrane and adjacent panels are stapled together. Place staking pins to maintain 'ProtectaWeb' cells open.
- Panels are then backfilled with 100mm depth of no-fines 20-40mm particle size stone (clean granular fill).
- The construction should ideally be undertaken between May and October when the ground is sufficiently dry to prevent compaction occurring. The sub-base should be flat, that is to say any small hollows should be filled with sharp sand to bring up to surrounding levels.
- The geotextile should be laid out and not trafficked across at any time.
- The 'ProtectaWeb' confinement system should be laid out and worked on as the contractor progresses across the length of the area. The panels are sequentially filled with the no-fines aggregate, each serving as a platform for the next section.
- There is no need at any time for the ground to be crossed by heavy traffic. The particles/gravel pieces are transported from the on site storage area over the freshly-laid confinement system BY WHEELBARROW and installed BY HAND. There will be no trespass on to the root protection area beyond the installation of the confinement system itself.
- The infill can then be rolled to compact the particles and create a tight interlock across the cells. The finished surface can then be laid on top. Again no fines material to be used: porous tarmac is recommended for this site given the level changes that are required.
- New kerb lines may be cast into the ProtectaWeb cells.
- During the main construction phase a wearing course should be placed over the 'Protectaweb' system.
- For technical data on the ProtectaWeb system always refer to the manufactures guidelines for design and implementation.

Further technical advice can be gained from the manufacturer(s) including Wrekin Products, Geosynthetics or Core LP.



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Site: Sturt Avenue  
 Drawing Title: Tree Constraints Plan (Trees for Removal) 1:250@A1  
 Appendix: F Rev B, Nov 2023

**Key:**

- Category A (Green circle)
- Category B (Blue circle)
- Category C (Grey circle)
- Category U (Red circle)

Category Legend:

- Crown Spread
- Tree Number
- Species
- Category
- Root Protection Area

NOTE: Tree/group numbers marked with an \* have approximate locations.

Tree Proposed for Removal (Red dashed circle)

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