



Arboricultural assessment & method statement

Berewood, land adjacent to London Road, southern access roundabout, Waterloooville

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22nd July 2019 16072-AA5-DC

Site location and report purpose

Site location



This aerial image is provided courtesy of Google. The yellow line indicates the approximate site boundary and is illustrative only.

Report purpose

This arboricultural assessment report provides sufficient information for the Local Planning Authority (LPA) to consider the effect of the proposed development on local character from a tree perspective. It is fully compliant with the BS 5837 advice relating to the planning application stage of the process and it meets national standard planning application validation requirements.

More specifically, the development proposal is to construct a new access infrastructure from London Road, Waterloo as part of the wider Berewood development scheme.

This report includes:

- A **Tree protection plan** illustrating tree locations, categories, the location of the proposed development, and the proposed tree protection measures.
- An **Arboricultural assessment** (section 1 of the report) providing an analysis of the tree issues to assist the LPA in assessing the impact on local character.
- An **Arboricultural method statement** (section 2 of the report) describing how retained trees will be protected and managed during the development activity.
- **Appendices (Appendix 1 – Background administrative information, and data collection; Appendix 2 – Tree schedule and explanatory notes; and, Appendix 3 – QR Codes for SGNs).**
- A companion document to supplement the main report titled ***Manual for managing trees on development sites (Version 2.1)***, which provides explanations of how retained trees will be managed on site in the form of Site Guidance Notes (SGNs) covering the relevant issues.

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1.1 Table 1: Summary of trees affected and protected by the proposal

From my review of the constraints and the proposed layout, my assessment of the impact on trees, both during and after development, and those that need protection using special precautions, is summarised in Table 1:

	British Standard 5837 Category		
	A (High quality)	B (Moderate quality)	C (Low quality)
Remove	None	T1, T16, T37, T41, T45, T46, T47, T48, T51, T52, G54	T2, T3, T4, G7, G15, G20 (part), T23, T24, T25, T26, T27, T32, T33, G34, G38, T39, G40, G42 (part), G43, G44
Prune	None	None	None
Protect using special precautions See Notes below	None	T19, T36	T17, T18, G20 (part)
Post development considerations	None	None	None

T = Tree; H = Hedge; G = Group

Note on types of protection: All retained trees will be protected during development by using fencing, and only those requiring special precautions to limit the impact of encroachment are listed in Table 1.

Note on category U trees: Trees categorised as U (T22, T28, T29, T30, T31 T50) are in such poor condition that they have been assessed as needing removal for management reasons irrespective of any development proposals. Removal of category U trees is a management decision and not caused by this proposal, so should not be considered a direct impact.

1.2 The impact of tree removals on local character

My assessment of the impact of tree removals on local character is as follows:

Trees (T1, T2, T3, T4, G7, G15, T16, G20 (Part), T23, T24, T25, T26, T27, T32, T33, G34, T37, G38, T39, G40, T41, G42 (part), G43, T46, T47, T48, G54)

These trees are well within the site and are only visible in glimpses from outside the site but not individually prominent. There are significant retained trees that will buffer any loss to the extent that there will be no impact on local character.

Trees (G44, T45, T51, T52)

These trees grow adjacent to Purbrook Heath Road so are visible from a public viewpoint. Their loss will be noticeable, but this will be mitigated by the retention of mature trees that will reduce the impact of their loss. In addition, the scheme includes significant new tree planting. These new trees would have the potential to reach a significant height without excessive inconvenience and be sustainable into the long term, significantly improving the potential of the site to contribute to local character.

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1.3 The impact of tree pruning on local character

Other than pruning for normal maintenance, no trees will be pruned because of this development.

1.4 The impact of works in precautionary areas

My assessment of the impact of encroachment into RPAs that will be managed by special precautions, is as follows:

Trees T17, T18, T19, G20 (part), T36

There will be encroachment into the RPA of these trees in the form of new no-dig surfacing. I have carefully reviewed the levels in these areas and it would be feasible to install custom designed no-dig specification surfacing without causing any significant disturbance to the RPA. From our previous experience at installing such surfacing (www.barrelltreecare.co.uk/case-studies/SurfacingNearTrees.pdf), I am confident that this can be implemented without any long term detrimental impact on tree health, with the detail to be agreed as part of a planning condition. This surfacing solution is within the advice set out in BS 5837 (8.6) and would be appropriate in this situation. In summary, if the guidance set out in SGN 7 *Excavating in RPAs* and SGN 9 *Installing/upgrading surfacing in RPAs* is observed, I believe that the proposed works can be implemented without any long term detrimental impact on tree health, and therefore local character. All new surfacing must be installed before any construction access to prevent damage to the RPA from the construction activity.

1.5 Post development considerations

My assessment is that there will be no adverse impacts on retained trees once the development is completed and occupied.

1.6 New tree planting to enhance local character

To supplement retained trees and enhance local character, the project landscape architect has specified a comprehensive new tree planting scheme. I understand that the final selection of species, size and location are flexible and open to amendment, as appropriate. All new trees will be specified and planted in accordance with the recommendations in BS 8545 (2014) *Trees: from nursery to independence in the landscape –Recommendations*. These new trees would have the potential to reach a significant height without excessive inconvenience and be sustainable into the long term, significantly improving the potential of the site to contribute to local character.

1.7 Summary of impact on local character

Most of the trees to be lost because of this proposal are low category because of their poor condition or small size. Some high category trees will also be lost but they are either well within the site or close to retained trees that will buffer the initial impact and their loss will have no long term detrimental impact on the present character of the area. The matter of adverse impacts on retained trees due to post-development pressures to fell or prune has been considered and I concluded that no further trees will be affected. There is plenty of space for tree planting and a comprehensive new tree planting scheme using is feasible. The size of these new trees and their future growth will significantly enhance the contribution of this site to local character and more than compensate for the loss of existing trees. The construction activity may affect further trees if appropriate protective measures are not taken. However, if adequate precautions to protect the retained trees are specified and implemented through the arboricultural method statement



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included in this report, the development proposal will have no long term detrimental impact on tree health or the contribution of trees to character in the wider setting. Indeed, the new sustainable planting proposals will increase the potential of the site to contribute to local character well beyond the short term.

For these reasons, I conclude that the proposed development would not cause an unacceptable or adverse impact on the long-term vitality of the retained trees, and therefore the character and appearance of the area. Furthermore, it fully aligns with the broad guidance set out in the National Planning Policy Framework.

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2.1 Site Guidance Notes (SGNs)

This section of the report identifies which trees on this site will be protected and managed, and by what means. This site-specific summary is supplemented by more detailed explanations and descriptions of specific operations set out in the accompanying *Manual for managing trees on development sites*. That document is a compilation of 12 individual SGNs addressing the following tree protection and management issues that regularly arise in the construction phase of development:

- SGN 1 *Monitoring tree protection* (<https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn01?stage=Stage>)
- SGN 2 *Fencing protected trees* (<https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn02?stage=Stage>)
- SGN 3 *Ground protection* (<https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn03?stage=Stage>)
- SGN 4 *Pollution control* (<https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn04?stage=Stage>)
- SGN 5 *Site cranes & piling rigs* (<https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn05?stage=Stage>)
- SGN 6 *Height restrictions* (<https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn06?stage=Stage>)
- SGN 7 *Excavating in RPAs* (<https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn07?stage=Stage>)
- SGN 8 *Removing surfacing and structures in RPAs* (<https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn08?stage=Stage>)
- SGN 9 *Installing/upgrading surfacing in RPAs* (<https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn09?stage=Stage>)
- SGN 10 *Installing structures in RPAs* (<https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn10?stage=Stage>)
- SGN 11 *Installing services in RPAs* (<https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn11?stage=Stage>)
- SGN 12 *Landscaping in RPAs* (<https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn12?stage=Stage>)

NOTE: Each individual SGN can be downloaded by using the links above and the QR Code links in Appendix 3.

2.2 Identification of areas to be protected

The tree protection plan shows the areas where protective measures are necessary. The fencing location is shown by the heavy black dashed lines, with the construction exclusion zone behind as the lighter black diagonal hatch. Precautionary areas are shown by a yellow fill.

2.3 Arboricultural supervision

An arboricultural consultant will be appointed to advise on the tree management for the site and to attend:

- a pre-commencement meeting before any work starts;
- regular supervision visits to oversee the agreed tree protection, as agreed at the pre-commencement meeting; and

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- further supervision visits, as necessary, to oversee any unexpected works that could affect trees.

The detail of how the arboricultural supervision will be carried out is explained in SGN 1 *Monitoring tree protection* in the accompanying Manual.

2.4 Table 2: Summary of the site operations requiring arboricultural input

For this site, arboricultural input will be needed for the following operations:

Brief operation summary	Trees affected	Location of detailed explanations
Pre-commencement meeting: Meeting on site with all parties to agree protective measures, as described in SGN 1. <u>Will be carried out before any significant site works begin.</u>	All trees	SGN 1 <i>Monitoring tree protection</i>
Tree felling and pruning: Contractor will carry out agreed works as described in Appendix 2. <u>Will be completed before any significant site works begin.</u>	Fell trees 1, 2, 3, 4, G7, G15, 16, G20 (part), 23, 24, 25, 26, 27, 32, 33, G34, 37, G38, 39, G40, 41, G42 (part), G43, G44, 45, 46, 47, 48, 51, 52, G54	Appendix 2
Installing fencing: Agreed tree protection measures will be installed and checked, as described in SGN 2. <u>Will be completed before any significant site works begin.</u>	All trees	Tree protection plan, SGN 2 <i>Fencing protected trees</i>
Pollution control near retained trees: Any pollution control measures identified during risk assessment will be installed as described in SGN 4. <u>Will be completed before any potential pollutants arrive on site.</u>	All trees	SGN 4 <i>Pollution control</i>
Regular arboricultural supervision: Provision will be made to carry out and record agreed arboricultural supervision, as described in SGN 1.	All trees	SGN 1 <i>Monitoring tree protection</i>
Installing surfacing in RPAs: These operations will be carried out as described in the SGN 9.	17, 18, 19, G20 (part), 36	SGN 9 <i>Installing/upgrading surfacing in RPAs</i>
Installing services in RPAs: These operations will be carried out with care, as described in SGN 11.	All trees	SGN 11 <i>Installing services in RPAs</i>
Landscaping in RPAs: These operations will be carried out with care, as described in SGN 12.	All trees	SGN 12 <i>Landscaping in RPAs</i>
Removing tree protection: <u>Protection can only be removed when there is no risk of damage to retained trees, as described in SGN 1.</u>	All trees	SGN 1 <i>Monitoring tree protection</i>

The operations summarised in this table, and supplemented by the more detailed explanations set out in the SGNs and the rest of this document, form the arboricultural method statement for this site. The Site Manager will ensure that its details and any agreed amendments are known and understood by all site personnel. Copies of the agreed documents will be available on site. All personnel who could have an impact on trees will be briefed on the specific tree protection



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requirements as part of the site induction procedures. This requirement will be written into the site management documentation.

If unanticipated issues arise on site not referenced in the above explanations, further guidance on how to manage them can be found in the accompanying Manual.

2.5 Construction method statement (heads of terms summary)

A construction method statement is a description of how operations that may affect trees will be carried out to minimise any adverse impact on them. The details of how the site will be managed are construction and contractual matters that can only be finalised once the post-consent detailed planning begins. For that reason, at this stage in the planning process, as explained in clause 5.5.6 of BS 5837, it is normally sufficient to list a heads of terms summary of the issues requiring more detailed consideration once consent is issued. On this site, those issues are likely to include:

1. Preparation of a written site management protocol for dealing with tree issues, to be incorporated into formal site management procedures, and to specifically include induction training for all operatives related to tree protection.
2. The order of work on site, including site clearance, the installation of protective measures, the phasing of successive work locations, the installation of new surfacing, the removal of tree protection, and any necessary reinstatement.
3. Erection and maintenance of tree protection measures.
4. Who will be responsible for protecting the trees on site.
5. Detailed proposals for inspecting and supervising the tree protection.
6. How accidents and emergencies involving trees will be managed, including accidental damage to roots and their treatment.
7. Details of facilitation pruning and access into site. What size vehicles will be used under canopies and will large machinery be lifted over trees.
8. The parking arrangements for workers and visitors.
9. A schedule of emergency contact numbers relating to trees.
10. Areas for loading and unloading of materials and storage of materials and plant.
11. Where site facilities will be located and when will they be installed.
12. How machinery and equipment (such as excavators, cranes and their loads, concrete pumps and piling rigs) will enter, move on, work on, and leave the site.
13. Pollution control to specifically consider chemical storage and wheel washing facilities in relation to trees.
14. Recycling and storage of waste in relation to trees.
15. Details of earthworks, grading and mounding and removal of spoil, including any planned lowering or raising of ground levels.
16. Precise services locations, including the method of excavation when near trees.
17. Details of new surfacing and areas where this will happen, including detailed and precise cross-sections where no-dig surfacing is to be installed.
18. How post-construction impacts through compaction to soil near trees will be ameliorated.

Appendix 1: Background administrative information and data collection

A1.1 Table 3: Background administrative information

	Background administrative information
Report date & reference	17 th July 2019 16072-AA5-DC
Tree protection plan reference	BT9
Instructing client	West Waterlooville Developments Ltd
Instructions	Visit the site, assess the relevant trees, prepare a schedule of their details, describe the impact of the proposal on those trees and identify the tree protection issues in an arboricultural method statement with a tree protection plan, if appropriate.
Provided documents	Topographical survey, drawing number X_SA_TOPO.dwg, received by email on 25 th June 2019, and layout drawing number (TPO trees and Layout), GTWVILE_SA/SK/33, received by email on 9 th July 2019 and 25 th June 2019
Report author and credentials	Dave Cashman has taken and passed the LANTRA Professional Tree Inspection course (https://www.lantra.co.uk/awards/product/professional-tree-inspection), is a Chartered Forester (www.charteredforesters.org), and a Fellow of the Arboricultural Association (www.trees.org.uk), and is fully qualified to undertake the assessments in this report (https://www.barrelltreecare.co.uk/who-we-are/).
Report limitations	• We have not checked if there is any statutory protection on the trees because this can delay the production of the report. If any tree works are proposed before a planning consent is given, then the possible existence of any statutory protection must be checked with the LPA. • This report does not consider ecological or archaeological issues, or any other matter beyond the assessment of the trees.
Technical references	In preparing the analysis in this report, we considered the guidance and advice in the following technical references: • Climate Change Act (2008) www.legislation.gov.uk/ukpga/2008/27/contents • Town and Country Planning Act 1990 www.legislation.gov.uk/ukpga/1990/8/contents • National Planning Policy Framework, published by the DCLG www.gov.uk/government/publications/national-planning-policy-framework--2 • BS 5837 (2012) <i>Trees in relation to design, demolition and construction – Recommendations</i>, BSI www.shop.bsigroup.com/ • BS 8545 (2014) <i>Trees: from nursery to independence in the landscape – Recommendations</i>, www.shop.bsigroup.com/ • BS 3998 (2010) <i>Tree work – Recommendations</i>, BSI www.shop.bsigroup.com/ • <i>Trees in the Townscape: A Guide for Decision Makers</i>, published by the Trees & Design Action Group http://www.tdag.org.uk/ • <i>Trees in Hard Landscapes: A Guide for Delivery</i>, published by the Trees & Design Action Group www.tdag.org.uk/ • National Joint Utilities Group (2007) Volume 4, Issue 2: <i>Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees</i> www.njug.org.uk/publications/

Appendix 1: Background administrative information and data collection

A1.2 Table 4: Data collection

	Data collection
Date of site visit	5 th July 2019
People present during site visit	Dave Cashman
Weather & visibility	Clear, still, and dry, with average visibility
Limitations to observations	- The inspection of the trees for the purposes of assessing their condition and work requirements was made on the basis that they will be annually inspected in the future to identify any changes in condition and review the original recommendations. For these reasons, the tree assessment advice only remains valid for one year from the date that the trees were last inspected. - All observations were of a preliminary nature and did not involve any climbing or detailed investigation beyond what was visible from accessible points at ground level. - Observations of trees outside the site boundaries are confined to what was visible from within the site. - All dimensions were estimated unless otherwise indicated.
Tree Preservation Orders (TPOs), Conservation Areas, and tree categorisation	TPOs cannot always be reliably interpreted from the documentation to identify which trees are protected, especially as time passes and site conditions change from when they were originally made. It is common for TPO plans to be inaccurate and schedules often become out of date as trees die or are removed. Frequently, trees deteriorate and, although they may be technically protected by the TPO, are in such poor condition or causing such unreasonable inconvenience that their suitability for retention becomes questionable. In a planning context, if poor trees are assessed as unsuitable for retention, then it would be inappropriate to show them as a material constraint in development planning. For these reasons, although TPOs do need to be considered, they do not form the primary basis for tree categorisation. Poor quality trees assessed as not worthy of retention will be shown as such, irrespective of whether they are protected or not. Similarly, good quality trees that are not protected will still be shown as material constraints. The same rationale will be applied to Conservation Areas.
Tree location and numbering	Each tree, hedge, and group, was inspected, and the numbering scheme is indicated on the tree protection plan. Where important trees were found on site that were not included on the provided plan, their approximate positions and canopy extents are indicated on the plan.
Recording of tree data	For each identified tree, hedge, and group, the information collected was recorded on the tree schedule in Appendix 2 and the tree protection plan.
Compliance of data collection with BS 5837	The data collection is fully compliant with the advice in subsection 4.4.2 of BS 5837. When collecting this information, specific consideration was given to any low branches that may influence future use, age class, physiological condition, structural condition, and remaining contribution. Where appropriate, crown spreads were also noted where they differed from those shown on the provided land survey.
Calculation of RPAs	Following the recommendations in Table D1 of BS 5837, the diameter of each tree was rounded up to the next 2.5cm increment, with the radius of a nominal circle and the resultant RPA taken directly from that table. This information is listed for each tree in the tree schedule in Appendix 2.



Appendix 2: Tree schedule and explanatory notes

NOTE: Colour annotation is A & B trees with green background; C & U trees with blue background; trees to be removed in red text.

Tree No	Species	Height (m)	Diameter (cm) @ 1.5m	Maturity	Low Branches	Category	Notes	Tree Works	RPA radius (m)	RPA area (m ²)
All retained trees & hedges								Carry out safety check and lift over site to 3-4m as necessary.		
T1	Ash	14	50	Mature	-	B	-	Fell	6.0	113
T2	Ash	9	30	Maturing	-	C	-	Fell	3.6	41
T3	Ash	9	30	Maturing	-	C	Wound on stem	Fell	3.6	41
T4	Ash	11	50	Maturing	-	C	2 x stems, close to bridge	Fell	6.0	113
G5	Ash	12	60	Maturing	-	C	Closely spaced, poor form	-	7.2	163
T6	Horse chestnut	16	100	Mature	-	B	-	-	12.0	452
G7	Goat willow	14	80	Mature	-	C	Closely spaced stems, poor form	Fell	9.6	290
G8	Ash, thorn	14	60	Mature	-	C	Closely spaced, poor form	-	7.2	163
T9	Horse chestnut	16	40	Maturing	-	C	Poor form	-	4.8	72
T10	Ash	16	150	Mature	-	C	Several stems ground level, weak junctions	-	15.0	707
H11	Thorn	6	30	Maturing	-	C	-	-	3.6	41
T12	Yew	5	35	Maturing	-	C	Grows on edge of lane	-	4.2	55
T13	Ash	16	60	Mature	-	C	2 x stems, poor form	-	7.2	163
T14	Douglas fir	20	65	Mature	-	C	-	-	7.8	191
G15	Goat willow	12	60	Mature	-	C	Poor form	Fell	7.2	163
T16	Ash	18	55	Mature	-	B	(tag 5164)	Fell	6.6	137
T17	Willow	18	65	Mature	-	C	Ivy, poor from	-	7.8	191
T18	Willow	9	80	Mature	-	C	2 x stems, Ivy, pollarded 6m	-	9.6	290
T19	Sycamore	20	70	Mature	-	B	-	-	8.4	222
G20	Willow, ash	16	40	Maturing	-	C	Poor form	Fell (Part)	4.8	72



Appendix 2: Tree schedule and explanatory notes

Tree No	Species	Height (m)	Diameter (cm) @ 1.5m	Maturity	Low Branches	Category	Notes	Tree Works	RPA radius (m)	RPA area (m2)
T21	Sycamore	14	80	Mature	-	C	Closely spaced coppiced stems, ivy, poor form, adjacent to footpath	-	9.6	290
T22	Poplar	0	0	0	-	U	Fallen stump	Fell	0.0	0
T23	Poplar	25	75	Mature	-	C	Ivy, leaning, previously reduced, high risk failure	Fell	9.0	254
T24	Poplar	25	90	Mature	-	C	Ivy, leaning, previously reduced, high risk failure	Fell	10.8	366
T25	Norway maple	18	50	Mature	-	C	Forks at 3m, poor form	Fell	6.0	113
T26	Poplar	25	90	Mature	-	C	Previously reduced, poor form	Fell	10.8	366
T27	Poplar	25	90	Mature	-	C	Previously reduced, poor form	Fell	10.8	366
T28	Poplar	25	80	Mature	-	U	Large dead stem, ivy	Fell	9.6	290
T29	Poplar	25	70	Mature	-	U	Tall & thin	Fell	8.4	222
T30	Poplar	25	90	Mature	-	U	Previously reduced, poor form, ivy	Fell	10.8	366
T31	Poplar	25	90	Mature	-	U	Previously reduced, poor form, ivy	Fell	10.8	366
T32	Sycamore	12	60	Mature	-	C	3 x twisted stems @ base	Fell	7.2	163
T33	Poplar	25	75	Mature	-	C	Poor form	Fell	9.0	254
G34	Ash, thorn	15	45	Mature	-	C	Poor form	Fell	5.4	92
G35	Goat willow, ash	16	100	Mature	-	C	Closely spread, poor form	-	12.0	452
T36	Oak	14	60	Maturing	-	B	Ivy, thorn & holly at base	-	7.2	163
T37	Oak	14	70	Maturing	-	B	-	Fell	8.4	222
G38	Thorn, sycamore	9	45	Mature	-	C	Squirrel damage	Fell	5.4	92
T39	Ash	20	90	Mature	-	C	2 x stems, poor form, dying	Fell	10.8	366
G40	Thorn, ash	9	35	Maturing	-	C	Dying, poor form	Fell	4.2	55
T41	Oak	12	55	Maturing	-	B	Adjacent to gate	Fell	6.6	137
G42	Goat Willow	9	60	Mature	-	C	-	Fell (Part)	7.2	163



Appendix 2: Tree schedule and explanatory notes

Tree No	Species	Height (m)	Diameter (cm) @ 1.5m	Maturity	Low Branches	Category	Notes	Tree Works	RPA radius (m)	RPA area (m2)
G43	Goat Willow	9	60	Mature	-	C	-	Fell	7.2	163
G44	Ash	14	100	Mature	-	C	Several stems growing from ditch, die-back, ivy, limited access	Fell	12.0	452
T45	Oak	15	90	Mature	-	B	2 x stems @ 15m	Fell	10.8	366
T46	Oak	16	75	Mature	-	B	-	Fell	9.0	254
T47	Oak	16	55	Mature	-	B	-	Fell	6.6	137
T48	Oak	16	40	Maturing	-	B	-	Fell	4.8	72
T49	Oak	12	50	Mature	-	C	Sparse crown	-	6.0	113
T50	Lime	3	60	Mature	-	U	Stump with basal suckers	Fell	7.2	163
T51	Oak	16	60	Maturing	-	B	-	Fell	7.2	163
T52	Oak	16	55	Maturing	-	B	-	Fell	6.6	137
T53	Oak	16	55	Maturing	-	B	-	-	6.6	137
G54	Sycamore, ash	15	45	Maturing	-	B	Closely spaced group	Fell (Part)	5.4	92

Appendix 2: Tree schedule and explanatory notes

Explanatory Notes

- **Abbreviations:**

G: Group
H: Hedge
T: Tree

- **Botanical tree names:**

Ash	: <i>Fraxinus excelsior</i>
Douglas fir	: <i>Pseudotsuga menziesii</i>
Goat willow	: <i>Salix caprea</i>
Horse chestnut	: <i>Aesculus hippocastanum</i>
Lime	: <i>Tilia</i> sp
Norway maple	: <i>Acer platanoides</i>
Oak	: <i>Quercus robur</i>
Poplar	: <i>Populus</i> sp
Sycamore	: <i>Acer pseudoplatanus</i>
Thorn	: <i>Crataegus</i> sp
Willow	: <i>Salix</i> sp
Yew	: <i>Taxus baccata</i>

- **BS 5837 (2012) compliance:** All data has been collected based on the recommendations set out in subsection 4.4 of BS 5837.
- **Tree inspections and site limitations:** Each tree was subjected to a quick visual check level of inspection. Where there is restricted access to the base of a tree, its attributes are assessed from the nearest point of access. Climbing inspections are not carried out during this level of inspection and, if heavy ivy is present, tree condition is assessed from what can be seen from the ground. A separate note is recorded if further investigation may be required to clarify its status.
- **Crown spreads:** Crown spread dimensions are not listed in the tree schedule because they are illustrated on the land survey base to all the plans in this document. Where crown spreads of significant trees on site are found to deviate from those shown on the provided land survey, we have noted it in the text of the report and annotated it on our plans.
- **Dimensions:** All dimensions are estimated unless otherwise indicated with an asterisk (*) after the figure.
- **Species:** Species identification is based on visual observations. Where there is some doubt over tree identity, sp is noted after the genus name to indicate that the species cannot be reliably identified at the time of the survey. Where there is more than one species in a group, only the most frequent are noted and not all the species present may be listed.
- **Height:** Height is estimated to provide a broad indication of the size of the tree.
- **Trunk diameter:** Trunk diameter is estimated or measured (with a diameter tape), at the discretion of the consultant, and recorded in 2.5cm increments as advised in BS 5837 Table D1. Estimates may be made where access is restricted, direct measurement is prevented because of ivy on the trunk, or the tree is assessed as low quality. The point of measurement and the adjustments for stem variations are as advised in Figure C1 of BS 5837.
- **Maturity:** In planning context, maturity provides a simplistic indication of a tree's ability to cope with change and its potential for further growth. For the purposes of this report, young indicates a potential to significantly increase in size and a high ability to cope with change, maturing indicates some potential to increase in size and a medium ability to cope with change, and mature indicates little potential to increase in size and limited ability to cope with change.
- **Low branches:** Any low branches that would not be feasible for removal during normal management and should be considered as a design constraint are noted here and explained in the notes.
- **Category:** Our assessment automatically considered tree physiological/structural condition (BS 5837, 4.4.2.5h), and so these are not listed separately in the schedule. Additionally, the category accounts for the remaining contribution (BS 5837, 4.4.2.5i) as greater than 40 years for A trees, greater than 20 years for B trees, at least 10 years for C trees and less than 10 years for U trees, so this is also not listed separately in the schedule. Category A, B and C trees are automatically listed as sub-category 1 unless otherwise stated.

Appendix 2: Tree schedule and explanatory notes

- **Notes:** Only relevant features relating to physiological or structural condition and low branches that may help clarify the categorisation are recorded. If there are no notes, then the presumption should be that no relevant features were observed.
- **Tree works:** The recommended tree works are based on the quick visual check level of inspection and only intended to address significant hazards identified during that inspection. The following points should also be considered before carrying out any works:
 1. **Reporting during work operations:** In the context of the preliminary nature of the tree inspection, any defects that may affect tree safety discovered by the contractor when carrying out the work recommendations should be reported to the supervising officer. Modification to the schedule of works may be required because of these reports. The contractor should be specifically instructed on this point.
 2. **Implementation of works:** All tree works should be carried out to BS 3998 *Recommendations for Tree Work* as modified by more recent research. It is advisable to select a contractor from the local authority list and preferably one approved by the Arboricultural Association. Their Register of Contractors is available free from The Malthouse, Stroud Green, Standish, Stonehouse, Gloucestershire GL10 3DL; phone 01242 522152; website www.trees.org.uk.
 3. **Statutory wildlife obligations:** The Wildlife and Countryside Act 1981 as amended by the Countryside and Rights of Way Act 2000 provides statutory protection to birds, bats and other species that inhabit trees. All tree work operations are covered by these provisions and advice from an ecologist must be obtained before undertaking any works that might constitute an offence.
 4. **Stumps:** Stumps to be removed within the RPAs of retained trees should be ground out with a stump grinder to minimise any disturbance unless otherwise authorised by the supervising officer.
- **Future tree safety inspections:** Due to the time that may elapse between the original survey and the start of development, all trees should be re-inspected as part of the standard risk management process before any works start on site. Our assessment of the trees was carried out on the basis that a re-inspection would be carried out within a year of the assessment visit and our advice on tree condition must be reviewed annually from the date of that visit.

Appendix 3: QR Codes for SGNs (Scan with reader to download)

		
SGN 1 <i>Monitoring tree protection</i>	SGN 2 <i>Fencing protected trees</i>	SGN 3 <i>Ground protection</i>
		
SGN 4 <i>Pollution control</i>	SGN 5 <i>Site cranes & piling rigs</i>	SGN 6 <i>Height restrictions</i>
		
SGN 7 <i>Excavating in RPAs</i>	SGN 8 <i>Removing surfacing and structures in RPAs</i>	SGN 9 <i>Installing/upgrading surfacing in RPAs</i>
		
SGN 10 <i>Installing structures in RPAs</i>	SGN 11 <i>Installing services in RPAs</i>	SGN 12 <i>Landscaping in RPAs</i>



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