Arboricultural method statement
Royal Brompton Hospital, Chelsea – Imaging Centre
This aerial image is provided courtesy of Google (NB This extract predates the recent tree works and planting undertaken by RBKC on Dovehouse Street). The yellow line indicates the approximate area of consented development change and is for illustrative purposes only.
Site location and report purpose

Report purpose

This arboricultural method statement is prepared in response to the local planning authority (LPA) conditions 8, 10, and 17 of the Planning Consent (Appendix 1) dated 17th November 2017 (LPA reference HW/CB/DP2357). It describes how existing trees will be protected and managed during the development of the site. Its purpose is to explain how and when the protection measures should be installed, and how they will be maintained for the duration of the development activity.

More specifically, the consented development is for the establishment of a new Imaging Centre at Royal Brompton Hospital, London.

This report includes:

- A **Tree protection plan** illustrating relevant tree details, the location of the consented development, and the proposed tree protection measures and proposed tree planting.
- An **Arboricultural method statement** (section 1 of the report) describing how retained trees will be protected and managed during the development activity.
- **Appendices** (Appendix 1 – Copy of planning conditions; Appendix 2 – Background administrative information and data collection; Appendix 3 – Tree schedule and explanatory notes; and, Appendix 4 – 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.
1: Arboricultural method statement

1.1 Site Guidance Notes (SGNs)

This arboricultural method statement 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:

- SGN1 Monitoring tree protection (www.barrelltreecare.co.uk/technical-guidance/sgn01)
- SGN2 Fencing protected trees (www.barrelltreecare.co.uk/technical-guidance/sgn02)
- SGN3 Ground protection (www.barrelltreecare.co.uk/resources/technical-guidance/sgn03)
- SGN4 Pollution control (www.barrelltreecare.co.uk/resources/technical-guidance/sgn04)
- SGN5 Site cranes & piling rigs (www.barrelltreecare.co.uk/technical-guidance/sgn05)
- SGN6 Height restrictions (www.barrelltreecare.co.uk/resources/technical-guidance/sgn06)
- SGN7 Excavating in RPAs (www.barrelltreecare.co.uk/technical-guidance/sgn07)
- SGN8 Removing surfacing and structures in RPAs (www.barrelltreecare.co.uk/technical-guidance/sgn08)
- SGN9 Installing/upgrading surfacing in RPAs (www.barrelltreecare.co.uk/technical-guidance/sgn09)
- SGN10 Installing structures in RPAs (www.barrelltreecare.co.uk/technical-guidance/sgn10)
- SGN11 Installing services in RPAs (www.barrelltreecare.co.uk/technical-guidance/sgn11)
- SGN12 Landscaping in RPAs (www.barrelltreecare.co.uk/technical-guidance/sgn12)

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

1.2 Identification of areas to be protected

The tree protection plan shows the areas where protective measures are necessary. The barrier locations are shown by the heavy black dashed lines, with the construction exclusion zone behind as the lighter black diagonal hatch.

1.3 Tree planting

In order to mitigate the short-term impact of the required tree removals, five new trees (NB – T45 is being transplanted and re-established following completion of site works) will be established following the completion of the main phase of construction. The locations of these trees (and the detail of their nursery stock size and species selection) are shown on the tree protection plan. All planting will be undertaken in accordance with BS8545:2014 with aftercare measures to accord to extant planning condition 20.

1.4 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
- 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 SGN1 Site monitoring in the accompanying Manual.
1: Arboricultural method statement

1.5 Table 1: Summary of the site operations requiring arboricultural input

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

<table>
<thead>
<tr>
<th>Brief operation summary</th>
<th>Trees affected</th>
<th>Location of detailed explanations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-commencement meeting: Meeting on site with all parties to agree protective measures, as described in SGN1. Will be carried out before any significant site works begin.</td>
<td>All trees</td>
<td>SGN1 Monitoring tree protection</td>
</tr>
<tr>
<td>Tree felling and pruning: Contractor will carry out agreed works as described in Appendix 3. Will be completed before any significant site works begin.</td>
<td>Fell G41 (part), T42, G44 Prune T43 Transplant &amp; Re-establish T45</td>
<td>Appendix 3</td>
</tr>
<tr>
<td>Installing barriers: Agreed tree protection measures will be installed and checked, as described in SGN2. Will be completed before any significant site works begin. Public realm tree protection to be confirmed with appropriate authority.</td>
<td>T40, G41 (part), T43, T46</td>
<td>Tree protection plan, SGN2 Fencing protected trees</td>
</tr>
<tr>
<td>Pollution control near retained trees: Any pollution control measures identified during risk assessment will be installed as described in SGN4. Will be completed before any potential pollutants arrive on site.</td>
<td>All trees</td>
<td>SGN4 Pollution control</td>
</tr>
<tr>
<td>Operation of site cranes and piling rigs: Provision will be made to prevent site cranes and piling rigs damaging trees, as described in SGN5.</td>
<td>All trees</td>
<td>SGN5 Site cranes &amp; piling rigs</td>
</tr>
<tr>
<td>Regular arboricultural supervision: Provision will be made to carry out and record agreed arboricultural supervision, as described in SGN1.</td>
<td>All trees</td>
<td>SGN1 Monitoring tree protection</td>
</tr>
<tr>
<td>Installing services in RPAs: These operations will be carried out with care, as described in SGN11.</td>
<td>All trees</td>
<td>SGN11 Installing services in RPAs</td>
</tr>
<tr>
<td>Landscaping in RPAs: These operations will be carried out with care, as described in SGN12.</td>
<td>All trees</td>
<td>SGN12 Landscaping in RPAs</td>
</tr>
<tr>
<td>Removing tree protection: Protection can only be removed when there is no risk of damage to retained trees.</td>
<td>All trees</td>
<td>SGN1 Monitoring tree protection</td>
</tr>
</tbody>
</table>

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 requirements as part of the site induction procedures. This requirement will be written into the site management documentation.
Appendix 1: Copy of planning conditions

Planning and Borough Development
Kensington Town Hall, Hornton Street, LONDON, W8 7NX

Executive Director Planning and Borough Development
Graham Stallwood

Mc H Wilcock
DP9
100 Pall Mall
London
SW1Y 5NQ

Date: 17/11/2017

My Ref: PP/<CaseYear>/<Case No>
Your Ref: HW/CB/DP2357

Dear Sir/Madam,

TOWN AND COUNTRY PLANNING ACT 1990
TOWN AND COUNTRY PLANNING (DEVELOPMENT MANAGEMENT PROCEDURE) ORDER 2010

Permission for Development (Conditional)

The Royal Borough of Kensington and Chelsea hereby permits the development referred to in the under-mentioned schedule subject to the conditions set out therein and in accordance with the plans submitted, save insofar as may otherwise be required by those plans or by the said conditions. Your attention is drawn to the enclosed information sheet.

SCHEDULE

Development:
Demolition of 30 Britten Street and the Imatron building (adjacent Dovehouse Street) to facilitate the extension to the existing Sydney Street Hospital to provide a ground plus 5 storey consolidated healthcare building with 2 storeys of basement and a ground plus 2 basement level imaging centre, together with the formation of new pedestrian entrance on Sydney Street, reconfigured vehicular access, associated landscaping and car parking, plant and all necessary enabling works (MAJOR APPLICATION)-

Site Address: Royal Brompton Hospital, Sydney Street, LONDON, SW3 6PY

RBKC Drawing Nos: PP/16/04357

Applicant’s Drawing Nos: 1848 (00) 000 Existing Ground Floor Plan -
1848 (00) 001 Existing First Floor Plan -
1848 (00) 002 Existing Second Floor Plan -
1848 (00) 003 Existing Third Floor Plan -
1848 (00) 004 Existing Fourth Floor Plan -
1848 (00) 005 Existing Roof Site Plan -
Appendix 1: Copy of planning conditions

Demolition Traffic Management Plan.
*Reason* - To minimise the impact of demolition works upon highway safety and nearby residents’ enjoyment of their properties in accordance with policies CT1 and CL5 of the Consolidated Local Plan. It is necessary for the condition to be on the basis that “No development shall commence until” as compliance with the requirements of the condition at a later time would result in unacceptable harm contrary to the policies of the Development Plan.

8. **Demolition Traffic Management Plan (DTMP)**
   No development shall commence until a Demolition Traffic Management Plan (DTMP) for the Imaging Centre has been submitted to and approved in writing by the local planning authority. The statement should include:
   a) routing of demolition, including a response to existing or known projected major building works at other sites in the vicinity and local works in the highway;
   b) access arrangements to the site;
   c) the estimated number and type of vehicles per day/week;
   d) details of any vehicle holding area;
   e) details of the vehicle call up procedure;
   f) estimates for the number and type of parking suspensions that will be required;
   g) details of any diversion or other disruption to the public highway during preparation and demolition work associated with the development;
   h) work programme and/or timescale for each phase of preparation and demolition work associated with the development;
   i) details of measures to protect pedestrians and other highway users from demolition activities on the highway;
   j) a strategy for coordinating the connection of services on site with any programme work to utilities upon adjacent land; and
   k) where works cannot be contained wholly within the site a plan should be submitted showing the site layout on the highway including extent of hoarding, position of nearby trees in the highway or adjacent gardens, pedestrian routes, parking bay suspensions and remaining road width for vehicle movements.

   The development shall be carried out in accordance with the approved Demolition Traffic Management Plan.

   *Reason* - To minimise the impact of demolition works upon highway safety and nearby residents’ enjoyment of their properties in accordance with policies CT1 and CL5 of the Consolidated Local Plan. It is necessary for the condition to be on the basis that “No development shall commence until” as compliance with the requirements of the condition at a later time would result in unacceptable harm contrary to the policies of the Development Plan.

9. **Construction Traffic Management Plan (CTMP)**
   No development shall commence (save for demolition) until a Construction Traffic Management Plan (CTMP) for the Sydney Wing extension has been submitted to and approved in writing by the local planning authority. The statement should include:
   a) routing of excavation and construction vehicles, including a response to existing or known projected major building works at other sites in the vicinity and local works in the highway;
   b) access arrangements to the site;
Appendix 1: Copy of planning conditions

10. **Construction Traffic Management Plan (CTMP)**

No development shall commence (save for demolition) until a Construction Traffic Management Plan (CTMP) for the Imaging Centre has been submitted to and approved in writing by the local planning authority. The statement should include:

- a) routing of excavation and construction vehicles, including a response to existing or known projected major building works at other sites in the vicinity and local works in the highway;
- b) access arrangements to the site;
- c) the estimated number and type of vehicles per day/week;
- d) details of any vehicle holding area;
- e) details of the vehicle call up procedure;
- f) estimates for the number and type of parking suspensions that will be required;
- g) details of any diversion or other disruption to the public highway during excavation and construction work associated with the development;
- h) work programme and/or timescale for each phase of excavation and construction work associated with the development;
- i) details of measures to protect pedestrians and other highway users from construction activities on the highway;
- j) a strategy for coordinating the connection of services on site with any programme work to utilities upon adjacent land; and
- k) where works cannot be contained wholly within the site a plan should be submitted showing the site layout on the highway including extent of hoarding, position of nearby trees in the highway or adjacent gardens, pedestrian routes, parking bay suspensions and remaining road width for vehicle movements.

The development shall be carried out in accordance with the approved Construction Traffic Management Plan.

**Reason** - To minimise the impact of construction works upon highway safety and nearby residents’ enjoyment of their properties in accordance with policies CT1 and CL5 of the Consolidated Local Plan. It is necessary for the condition to be on the basis that “No development shall commence until” as compliance with the requirements of the condition at a later time would result in unacceptable harm contrary to the policies of the Development Plan.
Report (if required) has been submitted to, and approved in writing by, the local planning authority.

Reason - To ensure any risks from land contamination are minimised, and comply with the NPPF and development plan policies, in particular policy CE7 of the Consolidated Local Plan, and to accord with CLR 11: Model Procedures for the Management of Land Contamination (Defra 2004) or the current UK requirements for sampling and testing. It is necessary for the condition to be on the basis that "No development shall commence until" as compliance with the requirements of the condition at a later time would result in unacceptable harm contrary to the policies of the Development Plan.

14. Contamination – Remediation Method Statement

No development shall commence (save for demolition) until a Remediation Method Statement (if required) to address the results of the Site Investigation Scheme has been submitted to, and approved in writing by, the local planning authority.

Reason - To ensure any risks from land contamination are minimised, and comply with the NPPF and development plan policies, in particular policy CE7 of the Consolidated Local Plan and accord with CLR 11: Model Procedures for the Management of Land Contamination (Defra 2004) or the current UK requirements for sampling and testing.

15. Contamination – Verification Report

No development shall commence (save for demolition) until the approved Remediation Method Statement (if required) has been carried out in full and a Verification Report (if required) confirming:

(i) completion of these works;
(ii) details of the remediation works carried out;
(iii) results of any verification sampling, testing or monitoring including the analysis of any imported soil;
(iv) classification of waste, its treatment, movement and disposal;
(v) and the validation of gas membrane placement.

has been submitted to, and approved in writing, by the local planning authority.

Reason - To ensure any risks from land contamination are minimised, and comply with the NPPF and development plan policies, in particular policy CE7 of the Consolidated Local Plan.

16. Contamination – Unexpected

If during development, contamination not previously identified is found to be present at the site, development work shall cease and not be recommenced until a report indicating the nature of the contamination and how it is to be dealt with has been submitted to, and approved in writing by, the local planning authority. The approved measures shall be implemented in full.

Reason - To ensure any risks from land contamination are minimised, and comply with the NPPF and development plan policies, in particular policy CE7 of the Consolidated Local Plan, and to accord with CLR 11: Model Procedures for the Management of Land Contamination (Defra 2004) or the current UK requirements for sampling and testing.

17. Protection of trees during construction – Details required

No development shall commence until full particulars of the method(s) by
which all existing trees on adjacent land are to be protected during site preparation, demolition, construction, landscaping, and other operations on the site including erection of hoardings, site cabins, or other temporary structures, shall be submitted to and approved in writing by the local planning authority and the development shall be carried out only in accordance with the details so approved.

**Reason:** To ensure that the trees are adequately protected, to safeguard their contribution to the appearance and amenity of the area and accord with policies of the development plan, in particular policy CR6 of the Consolidated Local Plan. It is necessary for the condition to be on the basis that “No development shall commence until” as compliance with the requirements of the condition at a later time would result in unacceptable harm contrary to the policies of the Development Plan.

18. **Sustainable drainage systems**

The development shall not commence (save for demolition) until a Final detailed Drainage Management Plan has been submitted to and approved in writing by the local planning authority. This plan will need to identify existing run off rates together with proposed sustainable urban drainage (SuDS) measures to be included in the development. The SuDS measures so approved shall be implemented in full prior to occupation of the development and shall be so retained

**Reason:** To ensure the development achieves appropriate water attenuation measures to reduce surface water run off and to comply with Policies CE2 and CE7 of the Consolidated Local Plan.

19. **Planting and replanting**

All tree and shrub planting forming part of the plans and details approved through this planning permission shall be carried out in the first planting and seeding season following the first occupation of the development or the completion of the development whichever is the sooner. Any trees or shrubs which, within a period of five years from the first planting and seeding season referred to above, die, are removed, or become seriously damaged or diseased, shall be replaced in the next planting season with others of similar size and species.

**Reason:** To protect the appearance and amenity of the area and to accord with policies of the development plan, in particular policy CR6 of the Consolidated Local Plan.

20. **Planting and replanting**

Any trees or shrubs as shown in the approved landscaping schemes under condition 31 which, within a period of five years from the first planting and seeding season, are removed, or become seriously damaged or diseased, shall be replaced in the next planting season with others of similar size and species.

**Reason:** To protect the appearance and amenity of the area and to accord with policies of the development plan, in particular policy CR6 of the Consolidated Local Plan, and to ensure the development provides the maximum possible provision towards creation of habitats and valuable areas for biodiversity in accordance with Policy CE4 of the Consolidated Local Plan.

21. **Low Emission Strategy required**
Appendix 2: Background administrative information and data collection

A2.1 Table 2: Background administrative information

<table>
<thead>
<tr>
<th>Background administrative information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Report date &amp; reference</strong></td>
</tr>
<tr>
<td><strong>Tree protection plan reference</strong></td>
</tr>
<tr>
<td><strong>Instructing client</strong></td>
</tr>
<tr>
<td><strong>Instructions</strong></td>
</tr>
<tr>
<td><strong>Provided documents</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Report author and credentials</strong></td>
</tr>
<tr>
<td><strong>Report limitations</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
**Appendix 2: Background administrative information and data collection**

**A2.2 Table 3: Data collection**

<table>
<thead>
<tr>
<th>Data collection</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date of site visit</strong></td>
</tr>
<tr>
<td><strong>People present during site visit</strong></td>
</tr>
<tr>
<td><strong>Weather &amp; visibility</strong></td>
</tr>
</tbody>
</table>

**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 location and numbering**
Each tree 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 and group, the information collected was recorded on the tree schedule in Appendix 3 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 3.
## Appendix 3: Tree schedule and explanatory notes

<table>
<thead>
<tr>
<th>Tree No</th>
<th>Species</th>
<th>Height (m)</th>
<th>Diameter (cm) @ 1.5m</th>
<th>Maturity</th>
<th>Low Branches</th>
<th>Category</th>
<th>Notes</th>
<th>Tree Works</th>
<th>RPA radius (m)</th>
<th>RPA area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All retained trees</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Carry out safety check</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T39</td>
<td>Cherry</td>
<td>7</td>
<td>45</td>
<td>Over-mature</td>
<td>-</td>
<td>C</td>
<td>Past evidence of vehicle damage. Early decline.</td>
<td>-</td>
<td>5.4</td>
<td>92</td>
</tr>
<tr>
<td>T40</td>
<td>Cherry</td>
<td>7</td>
<td>32.5</td>
<td>Over-mature</td>
<td>-</td>
<td>C</td>
<td>Evidence of past pruning</td>
<td>-</td>
<td>3.9</td>
<td>48</td>
</tr>
<tr>
<td>G41</td>
<td>Lime</td>
<td>3</td>
<td>15</td>
<td>Over-mature</td>
<td>-</td>
<td>C</td>
<td>Pollard, areas of decay associated with past pollard points</td>
<td>Fell selected individuals</td>
<td>1.8</td>
<td>10</td>
</tr>
<tr>
<td>T42</td>
<td>Cherry</td>
<td>7</td>
<td>50</td>
<td>Over-mature</td>
<td>-</td>
<td>C</td>
<td>Significant past reduction. Poor structural form and limited sustainability</td>
<td>Fell</td>
<td>6.0</td>
<td>113</td>
</tr>
<tr>
<td>T43</td>
<td>Cherry</td>
<td>9</td>
<td>See Plan BT9</td>
<td>Mature</td>
<td>-</td>
<td>B</td>
<td>Marginal category B tree due to condition. Evidence of Some signs of stress noted within canopy and noted areas of past pruning</td>
<td>Prune lateral branches to extents shown on tree protection plan to ensure clearance to highway and hospital access point</td>
<td>See Plan BT9</td>
<td>See Plan BT9</td>
</tr>
<tr>
<td>G44</td>
<td>Lime</td>
<td>4</td>
<td>See Plan BT9</td>
<td>Over-mature</td>
<td>-</td>
<td>B</td>
<td>Pollard feature</td>
<td>Fell</td>
<td>See Plan BT9</td>
<td>See Plan BT9</td>
</tr>
<tr>
<td>T45</td>
<td>Cherry</td>
<td>3</td>
<td>7.5</td>
<td>Young</td>
<td>-</td>
<td>C</td>
<td>New planting</td>
<td>Transplant and re-establish following completion of site works</td>
<td>0.9</td>
<td>3</td>
</tr>
<tr>
<td>T46</td>
<td>Cherry</td>
<td>3</td>
<td>7.5</td>
<td>Mature</td>
<td>-</td>
<td>C</td>
<td>New planting</td>
<td>-</td>
<td>0.9</td>
<td>3</td>
</tr>
<tr>
<td>T47</td>
<td>Cherry</td>
<td>4</td>
<td>7.5</td>
<td>Young</td>
<td>-</td>
<td>C</td>
<td>Relative new planting</td>
<td>-</td>
<td>0.9</td>
<td>3</td>
</tr>
<tr>
<td>T48</td>
<td>Cherry</td>
<td>6</td>
<td>15</td>
<td>Maturing</td>
<td>-</td>
<td>C</td>
<td>Damage to stem area</td>
<td>-</td>
<td>1.8</td>
<td>10</td>
</tr>
</tbody>
</table>
## Explanatory Notes

- **Abbreviations:**
  - G: Group
  - T: Tree

- **Botanical tree names:**
  - Cherry: *Prunus* sp
  - Lime: *Tilia* sp

- **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 advised.

- **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 and recorded in 2.5cm increments as advised in BS 5837 Table D1. It is measured with a diameter tape unless access is restricted, direct measurement is not possible 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.

- **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.
Appendix 3: Tree schedule and explanatory notes

- **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](http://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.
<table>
<thead>
<tr>
<th>SGN1 Monitoring tree protection</th>
<th>SGN2 Fencing protected trees</th>
<th>SGN3 Ground protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGN4 Pollution control</td>
<td>SGN5 Site cranes &amp; piling rigs</td>
<td>SGN6 Height restrictions</td>
</tr>
<tr>
<td>SGN7 Excavating in RPAs</td>
<td>SGN8 Removing surfacing and structures in RPAs</td>
<td>SGN9 Installing/upgrading surfacing in RPAs</td>
</tr>
<tr>
<td>SGN10 Installing structures in RPAs</td>
<td>SGN11 Installing services in RPAs</td>
<td>SGN12 Landscaping in RPAs</td>
</tr>
</tbody>
</table>