

# Arboricultural Report

Tree Survey,  
Arboricultural Impact Assessment &  
Arboricultural Method Statement

In relation to the Large-Scale Residential Development at:

**Confey**  
**Leixlip**  
**Co. Kildare**

On behalf of:  
**Leixlip and Newbridge SPV Limited**

**July 2026**

**241005-PD-11-A**

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# Section 1: Arboricultural Impact Assessment

## 1 Summary

- 1.1 This arboricultural report has been instructed by Leixlip and Newbridge SPV Limited (the 'Applicant').
- 1.2 The development proposal is for a 'Large-Scale Residential Development' (LRD) at Confey, Leixlip, Co. Kildare (the 'Application Site').
- 1.3 This report includes:
- an assessment of the trees, their quality and value in accordance with BS 5837:2012 - Trees in relation to design, demolition and construction;
  - the site context and observations on the trees;
  - local planning policies relevant to the consideration of trees on the site;
  - the impact of the proposed development upon the tree population in and around the site;
  - methods of reducing impacts on trees; and
  - measures to be taken to protect trees during the proposed works.
- 1.4 The loss of trees and hedgerows required to facilitate the development is considered to be minimal and will have an insignificant impact on the character and visual appearance of the site within the local surrounding area. Details of the proposed tree and hedge removals are shown on the Tree Removals Plan at Appendix B and are specified within the Tree Work Schedule at Appendix A.
- 1.5 Substantial new tree planting has been proposed to mitigate the required removals. In the medium to long term, the proposed new planting will have a positive impact on the amenities and visual appearance of the development and the local surrounding landscape.
- 1.6 In conclusion, the proposed development is achievable in both arboricultural terms and in relation to local planning policy as it relates to trees. Tree impacts have been assessed, and tree protection measures have been specified in accordance with best practice and are sufficient to safeguard retained trees during the proposed works.

## **2 Introduction**

### **Instructions**

- 2.1 This arboricultural report has been instructed by Leixlip and Newbridge SPV Limited to provide information to assist all parties involved in the planning process, to make balanced judgements with regard to arboricultural features in relation to the proposed development at Confey, Leixlip, Co. Kildare.

### **Development proposal**

- 2.2 The proposed development provides a total of 125 residential units, comprising 81 no. houses, 22 no. duplex units and 22 no. apartments. The housing element consists of a mix of semi-detached and terraced dwellings, including 56 no. 3-bedroom houses and 25 no. 4-bedroom houses, ranging in height from 2 to 3 storeys. The development includes 22 no. duplex units within 11 duplex blocks, comprising 11 no. 2-bedroom and 11 no. 3-bedroom duplex homes, arranged over 3 storeys. The apartment element comprises 22 no. units within a single apartment block of up to 5 storeys in height, consisting of 5 no. 1-bedroom apartments and 17 no. 2-bedroom apartments.
- 2.3 Provision of car, cycle and motorbike parking will be provided throughout the development.
- 2.4 Vehicular, pedestrian, and cyclist access points will be provided from the north of the site via R149, with additional pedestrian and cyclist access provided from the south via the Royal Canal Greenway. The development will also provide landscaping, public and communal open spaces and all associated site development works to facilitate the project. These include boundary treatments, plant and waste management areas, and other service provisions.

### **Qualification and experience**

- 2.5 This report has been prepared by Charles McCorkell. Charles is a Chartered Arboricultural Consultant dealing with trees in relation to all forms of human activity, including the built environment. He is a Professional Member of the Institute of Chartered Foresters, a Professional Member of the Arboricultural Association, a qualified professional tree inspector (LANTRA), and has a BSc Honours Degree in Arboriculture from the University of Central Lancashire.

## Scope and limitations

- 2.6 The survey undertaken is not a health and safety assessment of trees; however, trees identified as imminently dangerous within the Application Site will have been highlighted and recommendations made, where appropriate.
- 2.7 The contents of this report are the copyright of CM Arbor Ltd. and may not be distributed or copied without the author's permission.

## Methodology and guidance

- 2.8 The author of this report has referred to *British Standard 5837: Trees in relation to design, demolition and construction (2012)* which provides a methodology for the assessment of trees and other significant vegetation on development sites.
- 2.9 BS 5837 (2012) is intended to assist decision-making with regard to existing and proposed trees and sets out the principles and procedures to be applied to achieve a harmonious relationship between existing and new trees and structures that can be sustained for the long term.
- 2.10 The BS 5837 (2012) recommends the National Joint Utilities Group (NJUG) document *Guidelines for the planning, installation and maintenance of utility apparatus in the proximity to trees*. Volume 4, issue 2. London: NJUG, 2007, as a normative reference for guidance on the installation of utilities within proximity to trees.

## Supporting information

- 2.11 This report should be read in conjunction with the following supporting documents attached to this report.

| Document                        | Reference         | Location   |
|---------------------------------|-------------------|------------|
| Arboricultural Method Statement | -                 | Section 2  |
| Tree Schedule                   | 241005-PD-10      | Appendix A |
| Tree Work Schedule              | 241005-PD-12      | Appendix A |
| Tree Survey & Constraints Plan  | 241005-P-10       | Appendix B |
| Tree Removal Plan               | 241005-P-11       | Appendix B |
| Tree Protection Plan 01/02      | 241005-P-12-01/02 | Appendix B |

## Definitions

- 2.12 **Root Protection Area (RPA)** – a layout design tool indicating the area surrounding a tree that contains sufficient rooting volume to ensure the survival of the tree.

- 2.13 **Tree Protection Zone (TPZ)** – an area based on the RPA in m<sup>2</sup> identified by an arboriculturist, to be protected during development, including demolition and construction work, by the use of barriers and/or ground protection fit for purpose to ensure the successful long-term retention of a tree.

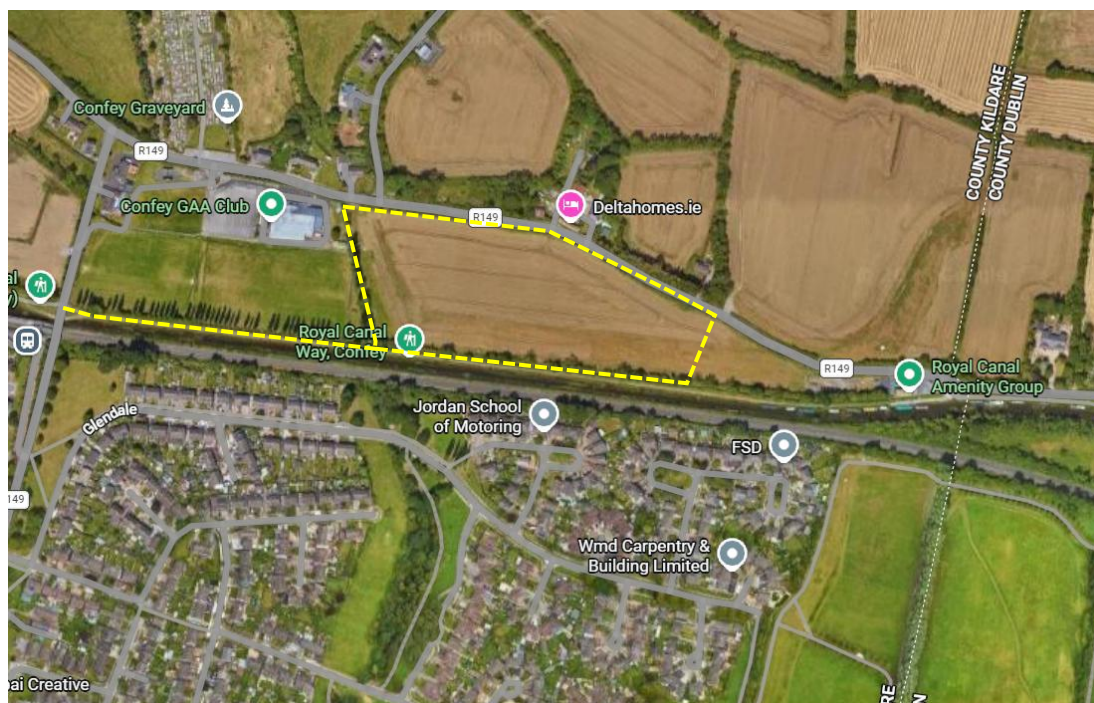
### 3 Observations & Context

#### Site visit

- 3.1 The site was visited by Edward Cleverdon on 13 March 2025. The purpose of the visit was to survey trees and vegetation which may be of significance to the proposed development. The survey was undertaken in accordance with *British Standard 5837: Trees in relation to design, demolition and construction (2012)*.

#### Site location and description

- 3.2 The Application Site consists of agricultural land located on the northern side of Lexlip (Map 1). The site is bounded by the Royal Canal Greenway to the south, the R149 to the north, Confey GAA to the west, and the Royal Canal Amenity Group to the east.
- 3.3 The tree and hedge cover on the site is located around the perimeter of the agricultural field. Along the southern boundary, adjacent to the Royal Canal Greenway, it is predominantly ash with native hedgerow and scrub. The northern boundary contains a mixed native hedgerow, sections of which include regrown ash coppice stools. The western boundary, which abuts Confey GAA, contains a mixed native hedgerow and line of Lombardy poplar.



**Map 1 (Google 2026):** Dashed yellow line highlighting the indicative location of the site.



## View of the site and trees



**Image 1:** View of the native hedgerow located along the southern boundary of the site adjacent to the Royal Canal.



**Image 2:** View of Lombardy poplar trees and native hedgerow located adjacent to the western boundary and within the grounds of Confey GAA.





**Image 3:** View of the mature native hedgerow with emerging ash trees located within the northern boundary group G647.



**Image 4:** View of the regrown ash coppice trees located along the northern boundary within group G650.

## 4 Local Planning Policy

### Kildare County Development Plan 2023-2029

- 4.1 Chapter 12 Biodiversity & Green Infrastructure, Section 12.9 Trees, Woodlands and Hedgerows of the Kildare County Development Plan 2023-2029 contains the following policies and objectives that relate to trees and are to be considered:

#### Policy

**BI P6:** Recognise the important contribution trees and hedgerows make to the county biodiversity resource climate mitigation, resilience and adaptation.

#### Objectives

**BI O15:** Prevent, in the first instance, the removal of hedgerows to facilitate development. Where their removal is unavoidable, same must be clearly and satisfactorily demonstrated to the Planning Authority. In any event, removal shall be kept to an absolute minimum and there shall be a requirement for mitigation planting comprising a hedge of similar length and species composition to the original, established as close as is practicable to the original and where possible linking to existing adjacent hedges. Native plants of a local provenance should be used for any such planting. Removal of hedgerows and trees prior to submitting a planning application will be viewed negatively by the planning authority and may result in an outright refusal.

**BI O16:** Promote the integration of boundary hedges within and along development sites into development design so as to avoid “trapped hedges” located to the boundary of houses within the development layout. Encourage the planting of woodlands, trees and hedgerows as part of new developments and as part of the Council’s own landscaping works using native plants of local provenance.

**BI O17:** Require the undertaking of a comprehensive tree survey carried out by a suitably qualified arborist where development proposals require felling of mature trees; the tree survey shall assess the condition, ecological and amenity value of the tree stock proposed for removal as well as mitigation planting and a management scheme. It should be noted that rotting and decaying trees are an integral part of a woodland ecosystem and can host a range of fungi and invertebrates, important for biodiversity. While single or avenue trees that are decaying may be removed, others that are part of a group or cluster may be subject to retention.

**BI O18:** Ensure a Tree Management Plan is provided to ensure that trees are adequately protected during development and incorporated into the design of new developments.

## **Leixlip Local Area Plan 2020-2023 Extended to March 2029**

- 4.2 Chapter 11 Natural Heritage, Green Infrastructure and Strategic Open Spaces, Section 11.2 Green Infrastructure of the Leixlip Local Area Plan 2020-2023 Extended to March 2029 contains the following policies and objectives that relate to trees and are to be considered:

### **Policy**

**GI 1:** It is the policy of the Council to protect, enhance and further develop the green infrastructure network in Leixlip to provide a shared space for amenity, recreation and biodiversity.

### **Objectives**

**GI1.1:** To protect identified key green infrastructure and 'stepping stone' habitats (according to their value), enhance where possible and integrate existing and new green infrastructure as an essential component of new developments and restrict development that would fragment the green infrastructure network. Site specific ecology surveys should be carried out where appropriate to inform proposed development and assess and mitigate potential impacts. All development within the Key Development Areas (KDAs) and masterplan areas shall be subject to site specific ecological surveys as part of the planning consent process.

**GI1.2:** To seek to ensure key trees, woodlands and high value hedgerows identified in the Leixlip Habitat Survey, and the linkages they provide to larger areas of green infrastructure and the wider countryside, are retained and integrated into the design of new developments where appropriate.

**GI1.4:** To maintain a green infrastructure protection zone of not less than 10 metres from the top bank of watercourses in Leixlip with the full extent of the protection zone to be determined on a case by case basis by the Planning Authority, based on site specific characteristics and sensitivities. Strategic green routes and trails will be open for consideration within the protection zone, subject to appropriate safeguards and assessments.

**GI1.6:** To seek to preserve, protect and enhance trees (including woodlands) of special amenity, nature conservation or landscape value within the plan

**GI1.7:** To seek to protect trees with a particular local amenity or conservation value.

**GI1.8:** To promote appropriate tree planting within public open spaces along transport networks and in the public realm.



**Map 2:** Snip showing the site within the Habitat Mapping for Leixlip. The site contains a low-quality hedgerow along the northern boundary and a high-quality hedgerow along the southern boundary.

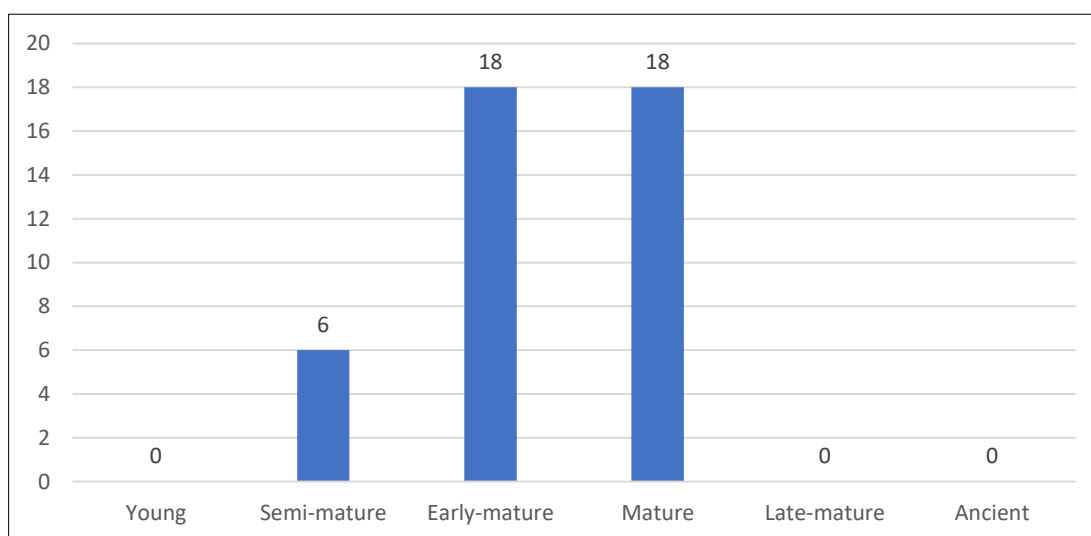


## 5 Technical Information

### Tree data

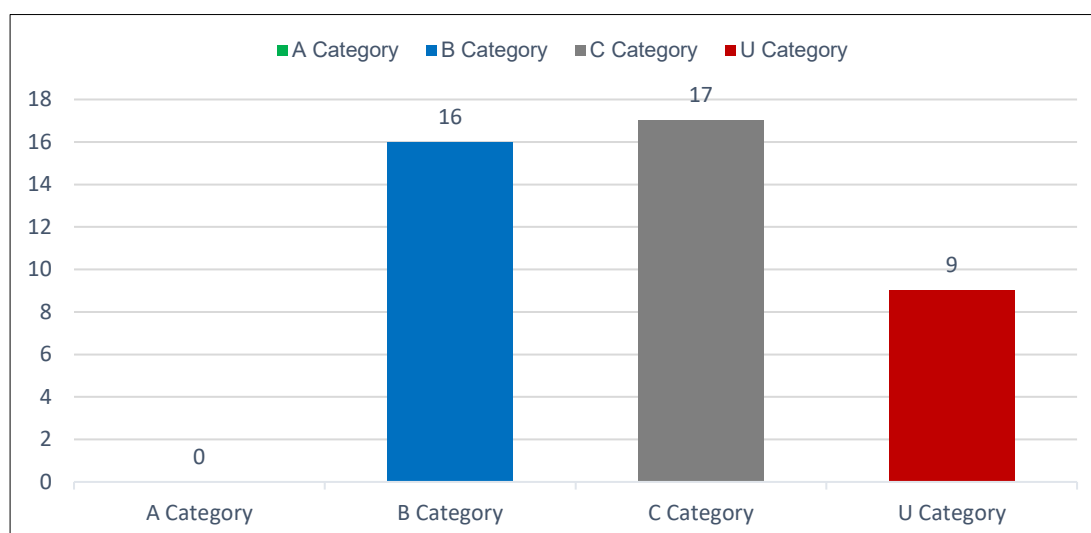
- 5.1 The Tree Survey Plan at Appendix B illustrate the location of trees, the extent of the spread of their crowns, and their root protection areas. Dimensions, comments and information for each tree are given in the Tree Schedule at Appendix A.

### Life stage analysis



**Figure 1:** Life stage analysis of the 42 survey entries recorded.

### BS5837 (2012) category breakdown



**Figure 2:** Breakdown of BS5837:2012 categories of the 42 survey entries recorded.



## 6 Analysis of the Proposal in Respect of Trees

### Arboricultural Impacts

- 6.1 **Loss of trees** – To facilitate two new vehicular entrance points to the site, the partial removal of two low quality (C Category) tree and hedge groups G647 and G650 along the northern boundary is required. Although the majority of these groups are retained as part of this Application, in the future, the northern boundary tree and hedge lines will be removed as part of the proposed road upgrade works.
- 6.2 Along the southern boundary, small sections of scrub within the moderate quality (B Category) hedgerow H681 and a poor quality (U Category) ash tree T630, are required to be removed to connect surface water runs to the existing ditch and to facilitate a pedestrian access link to the Royal Canal towpath. The main hedge and tree line along this boundary are located on the southern side of the ditch, so the extent of removal is considered to be minimal.
- 6.3 The loss of trees and hedgerows required to facilitate the development have been kept to a minimum and will have an insignificant impact on the character and visual appearance of the site within the local surrounding area. The design is to retain the main boundary tree and hedge lines, which will ensure that the local landscape character is maintained, whilst adding an element of maturity to the landscape of the new development.
- 6.4 Details of the proposed tree and hedge removals are shown on the Tree Removals Plan at Appendix B and are specified within the Tree Work Schedule at Appendix A.
- 6.5 **Pruning works** – The lateral growth of tree and hedge groups G647, G650, and H651 will require pruning works to provide clearance for site lines and for the proposed pedestrian footpaths along the northern boundary. These works are considered to be minor and will have a negligible impact on the health and condition of the trees concerned.
- 6.6 Prior to construction commencing, it is recommended that a review of all tree pruning works across the site is carried out by the arboricultural consultant to ensure trees are managed in accordance with best practice.
- 6.7 If additional pruning works are required for arboricultural reasons or to facilitate the development, these will be specified by the arboricultural consultant and carried out by a reputable arboricultural contractor in accordance with the recommendations given in BS 3998:2010 – Tree Work Recommendations.

- 6.8 **Compound area** – The indicative location for the proposed site compound, storage and parking facilities are located adjacent to the western boundary of the site. This is outside the RPAs of retained trees and therefore will have no impact on their health and condition. Please refer to Figure 3 below.



**Figure 3:** Extract from the OCEMP showing an indicative location for the site compound.

- 6.9 **Drainage and services** – The proposed surface water outfall into the southern ditch will require excavation works within and adjacent to the RPAs of retained trees and hedge line. The majority of the mature trees and hedging along this boundary, such as the moderate quality sycamore T638, are located along the southern side of the ditch and are unlikely to be negatively impacted as a result of these works.
- 6.10 As these works are located within the theoretical RPAs of retained trees, the excavation must be carried out under the guidance and supervision of the arboricultural consultant. Where rooting is exposed, these must be cleanly pruned to the edge of the trench using a sharp and sterile secateur or hand saw.
- 6.11 Where additional underground services are required, these will need to avoid the RPAs of retained trees. To ensure that trees are correctly considered, it will be necessary to obtain arboricultural input during the detailed design phase of the proposal.
- 6.12 If avoiding RPAs is not possible, the installation of underground services must adhere to industry best practice. The BS 5837:2012 recommends the National Joint Utilities Group Guidelines for the planning, installation and maintenance of utility apparatus in

proximity to trees Volume 4, issue 2: NJUG, 2007 as a normative reference in these instances.

- 6.13 **Construction of proposed towpath** – The construction of the proposed towpath to the west of the site is located within and adjacent to the RPAs of the tree and hedge line located adjacent to Confey GAA. These works must be carried out under the guidance and supervision of an arboricultural consultant to ensure that the retained trees are not adversely impacted. The proposed sections of the footpath show that it will be constructed above the existing ground level and therefore should have a minimal impact on the health and condition of the retained trees.
- 6.14 **Tree protection measures** – All retained trees and hedgerows can be successfully protected during the proposed development works by using robust fencing measures which comply with the recommendations outlined within BS 5837:2012. The location and specification of tree protection measures are highlighted in the Tree Protection Plan at Appendix B.
- 6.15 **Landscape operations** - Landscaping operations will typically take place at the end of the construction period. These works will normally require the removal of protective fencing to facilitate access for works. There is a risk that machinery may damage soil structure where tree roots are growing. These risks can be managed by maintaining good professional standards of work and working to a method statement. The principle of avoiding soil disturbance or changes in levels within the RPAs of retained trees should be followed unless arboricultural advice has been sought.

## Arboricultural mitigation

- 6.16 A detailed landscape plan has been designed and will form part of the planning application for the development proposal. This design includes the planting of a large number of new high-quality trees.
- 6.17 The proposed new planting will mitigate the loss of trees and hedgerows required to facilitate the development and, in the medium to long term, will enhance the tree cover throughout the site and within the local area. This will positively impact the visual appearance and amenities of the new development and the local surrounding landscape.

## **7 Discussion & Conclusion**

### **General Change**

- 7.1 In visual terms, the loss of trees and hedgerows required to facilitate the development will not have a significant impact on the character and appearance of the surrounding local area. The development has been carefully designed to minimise the quantity of tree and hedge removals. This will ensure that the impact on the character and appearance of the surrounding local landscape is negligible.
- 7.2 The development provides an opportunity to significantly increase the tree cover and diversity of species within the site and local area. In the medium to long term, this can have a positive impact on the surrounding landscape and can enhance the visual appearance and amenities of the site and local area.

### **New Landscaping**

- 7.3 The proposed design has considered the loss of trees and proposes new high-quality tree planting that will enhance the amenities and visual appearance of the development and contribute to the character of the local surrounding area. The proposed new tree planting will mitigate the loss of trees and, in the medium to long term, replace the loss of canopy cover.
- 7.4 A diverse selection of tree species should be planted to increase the resilience of the tree population on the site and within the local area due to the current risks posed by pests, diseases and climate change.

### **Sustainability**

- 7.5 The approach to trees and landscape on the site is sustainable; best practice guidance has been followed to identify the key trees for arboricultural and landscape value.
- 7.6 The landscape opportunities on the site for new trees can mitigate the loss of trees and improve canopy cover, bringing a positive benefit to the site and the local area generally.

### **Proposal in relation to local planning policy**

- 7.7 The proposed development complies with local planning policies as they relate to trees. Although trees are required to be removed, the proposal has included sufficient space for new planting to be carried out. The proposed new planting will mitigate the loss of

trees and, in the long term, can have a positive impact on the site and the local landscape.

- 7.8 The proposal has been designed to retain the southern hedgerow adjacent to the canal. Within the Leixlip Local Area Plan, this hedgerow has been classified as high-quality.
- 7.9 The proposal has been assessed in accordance with best practice BS5837:2012 and provided the recommendations as detailed within this report are followed, all retained trees and hedgerows can be successfully protected for the duration of construction.

### **Arboricultural impacts and mitigation**

- 7.10 Constraints posed by trees have been assessed, and where impacts occur, these have been identified specifically in this report and can be addressed using sensitive design and construction measures.
- 7.11 The protection of retained trees on this site during the proposed development works can be achieved by continuing to follow the recommendations in BS5837:2012 and by compliance with suitably drafted planning conditions.



## 8 Recommendations

- 8.1 The proposal should be carried out in accordance with the recommendations outlined within this report.

### **Tree Protection**

- 8.2 The positioning of tree protective barriers should be installed as detailed on the Tree Protection Plan at Appendix B.
- 8.3 The protective fencing measures to be installed must comply with the recommendations outlined within BS5837:2012.
- 8.4 No materials or equipment other than those required to install tree protection will be delivered to the site until all fencing and ground protection is in place.
- 8.5 Site supervision should be carried out by an arboricultural consultant at key stages of the project to ensure that retained trees can be successfully protected during the development. Details of supervision are included within the Arboricultural Method Statement at Section 2 of this report.

### **Tree Works**

- 8.6 All tree works are required to be carried out in accordance with best working practice BS3998:2010 – *Tree Work Recommendations* and by a reputable arboricultural contractor.

### **Arboricultural mitigation**

- 8.7 Tree planting is proposed to mitigate the loss of trees and must be carried out and maintained as specified by the Landscape Architect.
- 8.8 All new tree planting must be carried out in accordance with BS 8545:2014 *Trees: from nursery to independence in the landscape. Recommendations*.
- 8.9 New tree planting should take into consideration the mature growing size of the trees proposed to ensure that a harmonious relationship between trees and buildings and hard surfaces can be sustained for the long term, without the need for unnecessary pruning works or removals.

## Section 2: Arboricultural Method Statement

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Introduction</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>This report has been prepared in accordance with British Standard 5837: Trees in relation to design, demolition and construction – Recommendations (2012) which provides a methodology for the assessment and protection of trees and other significant vegetation on development sites.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Sequence of Operations</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>• Proposed tree works.</li> <li>• Installation of tree protection measures.</li> <li>• Enabling works, including the installation of a site compound.</li> <li>• Construction, including the installation of drainage and services.</li> <li>• Landscaping.</li> </ul> <p><i>Alternative sequences can be discussed and agreed with the local authority and project manager if required.</i></p>                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Supervision</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>All key/critical activities that will affect trees during construction will be inspected and monitored by the approved arboricultural consultant.</p> <ul style="list-style-type: none"> <li>• Pre-commencement meeting with the site manager and local planning authority to discuss tree works and tree protection measures;</li> <li>• Inspection of tree works and protection measures prior to the commencement of works;</li> <li>• Monthly site visits to inspect tree protection measures;</li> <li>• Supervision during the installation of drainage and services within tree RPAs;</li> <li>• Supervision during excavation works within tree RPAs;</li> <li>• Supervision during any other works that may affect retained trees; and</li> <li>• Tree inspection upon completion.</li> </ul> |

| <b>Arboricultural Method Statement</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Scope</b>                           | <b>Methodology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Pre-commencement meeting</b>        | <p>Prior to the commencement of works, a meeting between the arboricultural consultant, site manager, and local planning authority will be held to discuss the tree removals, tree protection measures and proposed works required in close proximity to trees.</p> <p>Contact details of all parties will be circulated to ensure all team members are able to communicate correctly.</p> <p>The site manager will be responsible for the protection of all retained trees for the duration of the project. Whenever necessary, the site manager will engage the arboricultural consultant to ensure trees are adequately protected.</p> <p>The appointed arboricultural consultant will be available for verbal advice throughout site works.</p>                                                                                            |
| <b>Tree Works</b>                      | <p>Please refer to the Tree Work Schedule at Appendix A for a list of all proposed tree works. The location of trees to be removed is highlighted on the Tree Removals Plan at Appendix B.</p> <p>It is the responsibility of the Site Manager to ensure all tree works have been approved by the local planning authority.</p> <p>All tree works will be carried out by a reputable arboricultural contractor in accordance with the recommendations given in BS 3998:2010 – Tree Work Recommendations.</p> <p>All tree works should be carried out in accordance with Section 40 of the Wildlife Act 1976 and Section 46 of the Wildlife (Amendment) Act 2000.</p> <p>It is the responsibility of the arboricultural contractor to ensure that no protected species are harmed whilst carrying out site clearance or tree surgery works.</p> |
| <b>Tree Protection</b>                 | <p>The position of protective fencing for construction is shown on the Tree Protection Plan at Appendix B.</p> <p>Protective fencing must be constructed and installed using the BS5837:2012 fencing specification as detailed on the Tree Protection Plan at Appendix B. Alternatives to those shown must</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                          | <p>be agreed in advance by the client approved, arboricultural consultant.</p> <p>No materials or equipment other than those required to erect protective fencing will be delivered to the site before the fencing is installed.</p> <p>Signs will be fixed to every third panel stating, <i>'Tree Protection Area Keep Out – Any incursion into the protected area must be with the agreement of the local authority or arboricultural consultant'</i>.</p> <p>The main contractor will inform the local authority and the arboricultural consultant that tree protection is in place before site clearance works commence.</p> <p>No alteration, removal or repositioning of the tree protection will take place during construction without the prior consent of the arboricultural consultant.</p> |
| <b>Compound Area</b>                     | <p>The site compound must be located outside the designated TPZs as highlighted on the Tree Protection Plan at Appendix B.</p> <p>No excavation works within tree RPAs are permitted to install temporary services for site cabins and facilities. Any temporary services within tree RPAs must be above ground and protected accordingly.</p> <p>No operating generators or toxic liquids will be stored within the RPAs of retained trees during construction.</p> <p>Overhanging tree canopies must be taken into consideration when transporting, installing and removing site cabins near tree crowns. A banksman will be present during this process to ensure that all operations are carried out in a controlled manner and no part of the cabin meets overhanging tree crowns.</p>            |
| <b>Excavation within tree RPAs</b>       | <p>Excavation works within the RPAs of retained trees must be carried out under arboricultural supervision.</p> <p>Root pruning will only be carried out under the guidance of the arboricultural consultant, using sharp, sterile tools suitable to the size of the root to be cut. Where possible roots will be pruned cleanly back to a side branch.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Drainage and Service Installation</b> | <p>All methods of work for the installation of drainage runs or services within the RPAs of retained trees will follow the guidance within</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                    | <p>Table 3 of BS 5837 (2012), or National Joint Utilities Group (NJUG) <i>Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees</i>. Volume 4, issue 2, London NJUG 2007.</p> <p>No machinery will be permitted within the TPZ at any time unless ground protection is installed and agreed upon with the arboricultural consultant beforehand. The requirement for temporary ground protection must be installed in accordance with Section 6.2.3.3 of BS 5837:2012, refer to Appendix D.</p> <p>Prior to drainage or service installation works commencing within RPAs, the arboricultural consultant will be contacted, and a date agreed upon for a site meeting to run through the proposed methods of work on site with the site manager and relevant site operatives.</p>                                                                                                                                   |
| <b>General Principals to Avoid Damage to Trees</b> | <p>All tree works will be carried out in accordance with the recommendations given in BS 3998 (2010).</p> <p>No fires will be permitted within 20m of the crown of any tree.</p> <p>No changes in soil levels will take place within the tree protection zones without prior written consent of the local authority.</p> <p>No materials, vehicles, plant or personnel will be permitted into the tree protection zones at any time without the prior consent of the arboricultural consultant.</p> <p>Any liquid materials spilt on site will be immediately cleared up and removed from the site. If liquid fuel or cement products are spilt within 2m of the tree protection zone, the contractor will report the incident to the arboricultural consultant immediately.</p> <p>The contractor will report any damage to trees or shrubs, whether caused by construction activities or from any other cause to the arboricultural consultant immediately.</p> |
| <b>Landscape Operations</b>                        | <p>All landscape operations within the protected area will be carried out by hand, using hand tools only, unless otherwise agreed with by the arboricultural consultant.</p> <p>No dumping of spoil or rubbish, parking of vehicles or plant, storage of materials or temporary accommodation will be undertaken within the TPZs.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



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|  | <p>All tree roots within the RPAs greater than 25mm diameter will be retained and worked around.</p> <p>Soil levels will not be increased or reduced within the RPAs of trees without prior agreement from the arboricultural consultant.</p> |
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## Appendix A - Schedule

| Document           | Reference    | Revision |
|--------------------|--------------|----------|
| Tree Schedule      | 241005-PD-10 | -        |
| Tree Work Schedule | 241005-PD-12 | -        |

## Appendix B - Plans

| Document                       | Reference      | Revision |
|--------------------------------|----------------|----------|
| Tree Survey & Constraints Plan | 241005-P-10    | -        |
| Tree Removal Plan              | 241005-P-11    | -        |
| Tree Protection Plan 01        | 241005-P-12-01 | -        |
| Tree Protection Plan 02        | 241005-P-12-02 | -        |