

# Arboricultural Impact Assessment (AIA)

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**September 2021**

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**Birch Business Park – Unit B**

Whittle Lane

Heywood

OL10 2SX

U R B A N  
G R E E N

# QUALITY MANAGEMENT

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|-------------------------|--------------------------------------------------------------|------------------------------------|------------------|-----------------|
| <b>Project No.:</b>     | UG1236                                                       |                                    |                  |                 |
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## **1. Executive Summary**

- 1.1.1. Urban Green has been instructed by Yeagate Limited to carry out an Arboricultural Survey to British Standard 5837:2012 guidelines at Birch Business Park -Unit B, Whittle Lane, Heywood, OL10 2SX and produce our findings in a report.
- 1.1.2. It is proposed to demolish and replace the existing unit alongside landscape improvements such as parking and soft landscaping. Full details of the proposed site layout can be seen on the plans included in Appendix 4.
- 1.1.3. The proposed development necessitates the removal of 3 trees and 1 group within the site boundary. An additional 4 trees are recommended for removal due to arboricultural management in a previous application for Unit D, approved application 20/00955/FUL. However, it is noted that all of these are of low value. It is recommended that this tree loss is mitigated for by replacement tree planting and the production of a robust soft landscaping scheme.
- 1.1.4. Before any tree works are carried out trees should first be assessed for their suitability for protected species by a suitably qualified and experienced ecologist.
- 1.1.5. Tree protection fencing, and ground protection will need to be installed at the alignment shown on the Tree Protection Plan in Appendix 4 before any construction activity takes place.
- 1.1.6. Information regarding the layout of new utilities and drainage and final site levels should be submitted to the Arboricultural Consultant so that the impact of these on the retained trees can be assessed.

## 2. Introduction

### 2.1. Instructions and references

- 2.1.1. We have been instructed by Yeargate limited to carry out a Arboricultural Impact Assessment (AIA) in accordance with BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations at the site location and produce our findings in a report to be submitted with a detailed planning application.
- 2.1.2. All trees, regardless of their statutory status, are a material consideration in a planning application. BS 5837 recognises the potential conflict between trees and development. The standard sets out to assist those concerned with trees in relation to construction and aid with decision making. This is achieved by providing impartial and balanced information on trees and their potential impacts.
- 2.1.3. Due to the nature of the site, it was decided that the survey methodology would include broadly grouping trees that share very similar characteristics. This method is in line with point 4.4.2.3 of BS 5837:2012 that states ‘Trees forming groups...should be identified and considered as groups where the arboriculturist determines that this is appropriate... It may be appropriate to assess the quality and value of trees as a whole, rather than individuals.’
- 2.1.4. The site is located in the area shown in Figure 1.



Figure 1 – Site Location Plan

## **2.2. Scope**

- 2.2.1. The AIA takes into account any potential impacts on existing trees including the effect of any tree loss required to implement the design and recommendation for the establishment of new trees.
- 2.2.2. The AIA will also assess any potentially damaging activities proposed in the vicinity of retained trees and the effect that the retained trees may have on the development such as potential nuisance caused by excessive leaf/fruit litter, lighting levels and potential damage to structures.

## **2.3. Documents provided**

- 2.3.1. A scaled plan has been provided with tree positions already plotted. Any extra trees found on site that were not included on the original plan have been plotted according to measurements taken on site and/or using aerial photography.
- 2.3.2. Tree locations which have been estimated are illustrated on the Tree Protection Plan in Appendix 4. The exact locations of these trees must be verified, and any discrepancies discussed with the Arboricultural Consultant before starting works on site.
- 2.3.3. A plan outlining the development proposals has been overlaid with the Tree Constraints Plan in order to assess the potential impacts.

## **2.4. Limitations**

- 2.4.1. The report is based upon a visual inspection. The consultant shall not be responsible for events that happen after the date of the report due to factors that were not apparent at the time, and the acceptance of this report constitutes an agreement with the guidelines and the terms listed in this report.
- 2.4.2. The consultant accepts no liability in respect of the trees unless the recommendations of this report are carried out under his supervision.
- 2.4.3. Assessing the potential influence of trees upon load bearing soils, beneath existing and proposed structures resulting from water abstraction by trees or rehydration of shrinkable soils was not included in the contract brief and is therefore not considered in the report. The consultant cannot be held responsible for damage arising from such action.
- 2.4.4. Trees are living organisms whose health, condition and structure can change over time. The contents of this report are valid for a period of one year from the date of the report.
- 2.4.5. Potentially hazardous trees are highlighted, and appropriate recommendations are made. However, this report is not a substitute for a full tree risk assessment or management plan which are specifically designed to minimise risk and liability associated with responsibility for trees.

### **3. Legislation**

#### **3.1. Tree protection status**

- 3.1.1. A Tree Preservation Order (TPO) is an order made by a Local Authority to protect specific trees, groups of trees or woodlands in the interests of amenity. A TPO prohibits the cutting down, topping, lopping, uprooting and wilful damage or destruction of trees without the Local Authority's written consent.
- 3.1.2. An email enquiry to Rochdale Metropolitan Borough Council confirmed that no trees on and adjacent to the site are currently protected by a Tree preservation Order. The site is not within a conservation area.
- 3.1.3. It is recommended that the Local Authority is consulted before any tree works are undertaken, as new TPOs may have been created since the time of enquiry, and heavy fines exist for unauthorised works to protected trees.
- 3.1.4. All works to trees covered by a TPO require permission from the Local Authority, including any pruning. However, this does not include trees that are dead or have become dangerous. The removal of dead branches is also excluded from a TPO. Although the above exceptions exist, it is advisable to give the Local Authority five days' notice in writing of any intended removal. Permission is not needed where tree work is required to implement an approved planning application.
- 3.1.5. It is an offence to remove more than 5m<sup>3</sup> of timber in any one calendar quarter without having first obtained a felling licence from the Forestry Commission. It must be noted, however, that this excludes sites where planning permission has already been granted.

#### **3.2. Wildlife**

- 3.2.1. Prior to the commencement of any tree works, the trees should be assessed for the presence of species which are subject to protection under the *Wildlife and Countryside Act 1981* (as amended) and the *Conservation of Habitats and Species Regulations 2017*.
- 3.2.2. Where there is evidence that bats, birds or other protected species are present, the advice of a suitably qualified ecologist should be sought.
- 3.2.3. If tree works are carried out during the bird nesting season (March to September inclusive), trees would need to be inspected by a qualified ecologist no more than 48 hours prior to the commencement works.

## **4. Arboricultural Impact Assessment (AIA)**

### **4.1. Summary of the development**

- 4.1.1. It is proposed to demolish and replace the existing unit alongside landscape improvements such as parking and soft landscaping. Full details of the proposed site layout can be seen on the plans included in Appendix 4.

### **4.2. Tree constraints**

- 4.2.1. BS 5837:2012 recognises that conflicting requirements of the planning system for development means that trees are only one factor which need to be taken into consideration. Although there may be certain specimens that can pose significant constraints to development due to their importance, it is essential that inappropriate tree retention is avoided.
- 4.2.2. Trees can be adversely affected on development sites if their protection is not factored into the wider project management of onsite operations. We have transposed the tree survey plan over plans detailing current proposals in order to assess the impact on surveyed trees.
- 4.2.3. It is essential that roots are protected from construction works including physical damage from excavation and changes in soil structure from compaction and changes in ground levels.

### **4.3. Root Protection Areas (RPAs) explained**

- 4.3.1. The RPA is an area of ground around the base of a retained tree, which is calculated in relation to the stem diameter, where disturbance should be kept to a minimum and avoided if at all possible.
- 4.3.2. The majority of tree roots grow within the upper 600mm of the soil profile where most nutrients are available as the result of the decomposition of organic matter close to the surface. Rooting conditions become less favourable at depth as the soil density increases, creating anaerobic conditions.

### **4.4. Impacts of development**

- 4.4.1. Thirty-one individual trees and ten groups were surveyed. Of which 26 trees, 5 groups and part of 1 group are within the site boundary.
- 4.4.2. 3 trees and 1 group require removal to facilitate the development and all are of low-quality category C.
- 4.4.3. There are an additional 4 trees within the site boundary which are recommended for removal due to arboricultural good management, these were recommended for removal within the report of Unit D, UG\_640\_ARB\_AIA\_01\_Rev\_02.FINAL.
- 4.4.4. Ground protection within the RPA of T5, T7, T14, T15, T16, T17, T19 is required to protect against compaction of the ground while allowing access for construction. It should be constructed in line with 4.7 within this document.

- 4.4.5. Breaking of the existing hard standing within the RPA of T4, T5, T14, T15, T17, T19 as detailed on the tree protection plan in appendix 4, should be completed with care. The hard standing can be broken up using machinery and then removed with care due to a chance of roots beneath the surface. No further excavation of the ground can take place once the hard standing has been removed. It will then require protection from compaction within the development with the grassed area added on top. Guidelines should be followed from 4.9 in this document.

#### **4.5. Tree surgery works**

- 4.5.1. Tree works that are recommended within the Tree Works Schedule (Appendix 4) are works required to facilitate development and also include details or remedial works. Tree works stated in the Tree Data Schedule (Appendix 1) are of a general maintenance nature and can be carried out at any time as per recommendations.
- 4.5.2. Tree works required to facilitate the development will be carried out prior to the commencement of any onsite operations. This should allow sufficient space for approved construction to be carried out.
- 4.5.3. Any unforeseen tree works that become apparent during the construction process will require written consent from the Local Authority Tree Officer.

#### **4.6. Protective fencing**

- 4.6.1. Temporary protective fencing will need to be installed at the alignment indicated on the Tree Protection Plan in Appendix 4, prior to the commencement of any construction activities on site including the delivery of materials and site facilities.
- 4.6.2. Any fencing that is damaged so that it is no longer able to protect retained trees must be replaced/repared immediately with appropriate fencing.
- 4.6.3. The required specification for protective fencing is illustrated in the Tree Protection Plan (Insert 1).
- 4.6.4. The 'in-ground' system involves driving vertical scaffold poles approximately 0.6m into the ground onto which are affixed horizontal scaffold poles and bracing struts. 2m high anti-climb weldmesh panels are then wired to the scaffold framework. The vertical scaffold poles should be at a maximum of 3m apart.
- 4.6.5. No fixing shall be made to any tree and all possible precautions shall be taken to prevent damage to the tree roots when locating uprights.
- 4.6.6. A 600mm x 300mm warning sign reading "TREE PROTECTION AREA KEEP OUT" shall be fixed to every 10m of protective fencing, as illustrated on the Tree Protection Plan (Insert 2).

#### **4.7. Ground protection for pedestrians or light vehicles**

- 4.7.1. The primary method of ground protection is the installation of a compressible layer (e.g. woodchip) over a geotextile fabric with side butting scaffold boards.
- 4.7.2. Ground protection measures whilst working the RPA must be capable of supporting the expected loads and avoid compaction of the soil.
- 4.7.3. The boarding will be left in place until the construction works are finished.

- 4.7.4. Scaffolding may first be erected with the uprights on spreader boards and the ground protection installed around the uprights.

#### **4.8. Boundary treatments**

- 4.8.1. Where fencing is to be installed within RPAs of retained trees, post holes will be excavated by hand and kept as narrow as possible. Trial holes will be dug using a manually operated soil augur in order to position post holes to avoid major roots.
- 4.8.2. Exploratory post holes will be dug before committing to positions. If any roots in excess of 25mm are encountered they are to remain intact and the post hole will be relocated to avoid them. The fencing system must permit such flexibility (i.e. where fixed panel widths are used, all post holes must be excavated before committing to the final location)
- 4.8.3. All post holes will be excavated by hand and kept as narrow as possible (maximum diameter 300mm).

#### **4.9. Demolition and removal of surfaces in the RPA**

- 4.9.1. During demolition, the following restrictions will apply:
- Where direct damage by falling masonry is likely, the tree should be protected by exterior grade plywood sheets constructed around the main stem.
  - The main body of any mechanical excavator will operate outside the RPA.
  - Masonry will be pulled away from trees where possible.
  - When breaking masonry, a fine water spray will be used to minimise dust particles.
  - Excessive dust particles on trees will be removed each day by spraying with water.
  - Hard surfaces should be kept in place for as long as possible during construction works in order to prevent soil compaction in the RPA.
  - During surface removal, the following restrictions will apply:
    - Only hand operated tools will be used to lift existing surfaces and sub-base. No mechanical excavators are to be used.
    - No excavation below the existing sub-base will occur.
    - All surface removal within the RPA will be supervised by the Arboricultural Consultant or the Local Authority Tree Officer.

#### **4.10. Temporary site cabins**

- 4.10.1. All storage facilities and deliveries will make use of existing hard surfaces to avoid unnecessary compaction within RPAs. The locations will be agreed in writing with the LPA prior to delivery and will remain in the agreed locations unless approved by the LPA.
- 4.10.2. If storage facilities require siting within RPAs, every effort will be made to ensure that any damage to aerial parts of retained trees is avoided and that appropriate footings are used to avoid root damage or compaction of the soil.

#### **4.11. Utilities**

- 4.11.1. At the time of writing Urban Green have not been made aware of any new utilities or service runs that will be associated with the development. Information regarding the layout of new utilities and drainage and final site levels should be submitted to the Arboricultural Consultant so that the impact of these on the retained trees can be assessed.

#### **4.12. Recommendations**

- 4.12.1. An Arboricultural Method Statement (AMS) will be required to provide solutions and working methods so that the impacts identified do not have a detrimental effect on retained trees.
- 4.12.2. All operations that could affect trees on and adjacent to the site must be considered as part of the project management of the Proposed Development. It is therefore recommended that an Arboricultural Consultant is appointed as part of the design and management team to advise on pre-development issues and supervise on-site operations.
- 4.12.3. The Arboricultural Consultant may also have an advisory role in the preparation of site including tree surgery works and the protection of trees during demolition processes.
- 4.12.4. The Arboricultural Consultant shall be responsible for inspecting all protective fencing prior to the commencement of all onsite activity.

## **Appendix 1 – Tree Data Schedule**

The following pages contain information gathered during the site survey. The reader should refer to Appendices 2 and 3 in order to correctly interpret the tree data.

| Reference<br>T = Tree<br>G = Group<br>H = Hedge<br>W = Woodland | Age & Species                                                     | Height (m) | Crown Ht (m) | DBH (mm)  | Crown Spread (m)<br>N<br>W<br>E<br>S | Notes                                                                                                                                                                                 | Recommendations    |                    | Physiological Condition | Life Expectancy (yrs) | RPA Radius |
|-----------------------------------------------------------------|-------------------------------------------------------------------|------------|--------------|-----------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|-------------------------|-----------------------|------------|
|                                                                 |                                                                   |            |              |           |                                      |                                                                                                                                                                                       | Priority           | Inspect Freq (yrs) | Structural Condition    | Retention Category    | (m)        |
| T1                                                              | Semi-Mature<br>Leyland Cypress<br><br>x Cupressocyparis leylandii | 7          | 1            | 320       | 2.5<br>2.5<br>2.5                    | 1: multi stem at base<br>2: situated on boundary of site within lawn area<br>3: no significant defects observed                                                                       | no action required |                    | Good                    | 40+                   | 3.84       |
|                                                                 |                                                                   |            |              |           |                                      |                                                                                                                                                                                       | n/a                | 3                  | Good                    | C                     |            |
| G2                                                              | Semi-Mature<br>Rowan<br><br>Sorbus aucuparia                      | av<br>6    | av<br>2      | av<br>200 | av<br>2<br>2<br>each                 | 1: small linear group<br>2: situated on boundary of site within lawn area<br>3: no significant defects observed                                                                       | no action required |                    | Good                    | 40+                   | 2.40       |
|                                                                 |                                                                   |            |              |           |                                      |                                                                                                                                                                                       | n/a                | 3                  | Good                    | C                     |            |
| T3                                                              | Semi-Mature<br>Larch<br><br>Larix decidua                         | 9          | 2            | 290       | 4<br>2.5<br>2.5                      | 1: single stemmed and vertical with an unbalanced crown<br>2: situated on boundary of site within lawn area<br>3: no significant defects observed                                     | no action required |                    | Good                    | 40+                   | 3.48       |
|                                                                 |                                                                   |            |              |           |                                      |                                                                                                                                                                                       | n/a                | 3                  | Good                    | C+                    |            |
| T4                                                              | Semi-Mature<br>Field Maple<br><br>Acer campestre                  | 8.5        | 4.5          | 280       | 3<br>3<br>3                          | 1: twin stem at 2m<br>2: situated on boundary of site within lawn area<br>3: small cavity present on main stem                                                                        | monitor            |                    | Good                    | 20-40                 | 3.36       |
|                                                                 |                                                                   |            |              |           |                                      |                                                                                                                                                                                       | Low                | 3                  | Fair                    | C                     |            |
| T5                                                              | Early-Mature<br>Alder (common)<br><br>Alnus glutinosa             | 11         | 2            | 310       | 5<br>2.5<br>3                        | 1: single stemmed and vertical with an unbalanced crown<br>2: situated on boundary of site within lawn area<br>3: minor deadwood to lower crown<br>4: acceptable condition at present | no action required |                    | Good                    | 40+                   | 3.72       |
|                                                                 |                                                                   |            |              |           |                                      |                                                                                                                                                                                       | n/a                | 3                  | Good                    | B+                    |            |
| G6                                                              | Mature<br>Wild Cherry<br><br>Prunus avium                         | av<br>11   | av<br>5      | av<br>450 | av<br>5<br>5<br>each                 | 1: situated adjacent to road<br>2: previous pruning wounds evident<br>3: narrow branch unions evident within group                                                                    | monitor            |                    | Good                    | 20-40                 | 5.40       |
|                                                                 |                                                                   |            |              |           |                                      |                                                                                                                                                                                       | Low                | 3                  | Fair                    | B-                    |            |

| Reference<br>T= Tree<br>G = Group<br>H = Hedge<br>W = Woodland | Age & Species                                        | Height (m) | Crown Ht (m) | DBH (mm)  | Crown Spread (m)<br>N<br>W<br>S<br>E | Notes                                                                                                                                                                                                    | Recommendations    |                    | Physiological Condition | Life Expectancy (yrs) | RPA Radius |
|----------------------------------------------------------------|------------------------------------------------------|------------|--------------|-----------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|-------------------------|-----------------------|------------|
|                                                                |                                                      |            |              |           |                                      |                                                                                                                                                                                                          | Priority           | Inspect Freq (yrs) | Structural Condition    | Retention Category    | (m)        |
| T7                                                             | Semi-Mature<br>Alder (common)<br><br>Alnus glutinosa | 10         | 1.5          | 280       | 3.5<br>3<br>3.5                      | 1: Single stemmed and vertical with a slightly unbalanced crown.<br>2: situated on boundary of site within lawn area<br>3: no significant defects observed                                               | no action required |                    | Good                    | 40+                   | 3.36       |
|                                                                |                                                      |            |              |           |                                      |                                                                                                                                                                                                          | n/a                | 3                  | Good                    | B                     |            |
| T8                                                             | Semi-Mature<br>Plum<br><br>Prunus sp                 | 4.4        | 1.5          | 160       | 3<br>3<br>2.5                        | 1: situated on boundary of site within lawn area<br>2: previous pruning wounds evident<br>3: no significant defects observed                                                                             | no action required |                    | Good                    | 40+                   | 1.92       |
|                                                                |                                                      |            |              |           |                                      |                                                                                                                                                                                                          | n/a                | 3                  | Good                    | C                     |            |
| T9                                                             | Semi-Mature<br>Field Maple<br><br>Acer campestre     | 7.5        | 3.5          | 170       | 2.5<br>0.5<br>1.5                    | 1: single stemmed and vertical with an unbalanced crown<br>2: situated on boundary of site within lawn area<br>3: minor bark wound to main stem with good occlusion                                      | no action required |                    | Good                    | 40+                   | 2.04       |
|                                                                |                                                      |            |              |           |                                      |                                                                                                                                                                                                          | n/a                | 3                  | Good                    | C                     |            |
| T10                                                            | Semi-Mature<br>Alder (common)<br><br>Alnus glutinosa | 8          | 2.5          | 170       | 2<br>1.5<br>3                        | 1: Single stemmed and leaning with unbalanced crown.<br>2: situated on boundary of site within lawn area<br>3: bark wound to main stem , occluded well<br>4: dead in top canopy<br>5: dense lower canopy | monitor            |                    | Good                    | 10-20                 | 2.04       |
|                                                                |                                                      |            |              |           |                                      |                                                                                                                                                                                                          | n/a                | N                  | Good                    | C                     |            |
| G11                                                            | Semi-Mature<br>Alder (common)<br><br>Alnus glutinosa | av<br>8    | av<br>1.5    | av<br>150 | 1.5<br>1.5<br>each                   | 1: Single stemmed and vertical with a balanced crown.<br>2: situated on boundary of site within lawn area<br>3: canopy of southern tree in decline, dying back at top                                    | no action required |                    | Good                    | 40+                   | 1.80       |
|                                                                |                                                      |            |              |           |                                      |                                                                                                                                                                                                          | n/a                | 3                  | Good                    | C                     |            |
| T12                                                            | Early-Mature<br>Field Maple<br><br>Acer campestre    | 9          | 2            | 350       | 3<br>3.5<br>3                        | 1: situated on boundary of site within lawn area<br>2: minor bark wounds to surface roots from mowing<br>3: acceptable condition at present                                                              | no action required |                    | Good                    | 40+                   | 4.20       |
|                                                                |                                                      |            |              |           |                                      |                                                                                                                                                                                                          | n/a                | 3                  | Good                    | B                     |            |

| Reference<br>T = Tree<br>G = Group<br>H = Hedge<br>W = Woodland | Age & Species                                               | Height (m) | Crown Ht (m) | DBH (mm) | Crown Spread (m) |     |     | Notes                                                                                                                                                                                                                              | Recommendations    |                    | Physiological Condition | Life Expectancy (yrs) | RPA Radius |
|-----------------------------------------------------------------|-------------------------------------------------------------|------------|--------------|----------|------------------|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|-------------------------|-----------------------|------------|
|                                                                 |                                                             |            |              |          | W                | N   | E   |                                                                                                                                                                                                                                    | Priority           | Inspect Freq (yrs) | Structural Condition    | Retention Category    | (m)        |
| T13                                                             | Semi-Mature<br>Sycamore<br><br>Acer pseudoplatanus          | 7          | 3            | 150      | 2                | 2   | 2   | 1: Single stemmed and vertical with a balanced crown.<br>2: situated with fence<br>3: fence causing damage to main stem<br>4: no long term future                                                                                  | remove             |                    | Fair                    | <10<br><b>U</b>       | 1.80       |
|                                                                 |                                                             |            |              |          |                  |     |     |                                                                                                                                                                                                                                    | Moderate           | 1                  | Poor                    |                       |            |
| T14                                                             | Semi-Mature<br>Horse Chestnut<br><br>Aesculus hippocastanum | 6          | 1.5          | 290      | 4.5              | 2.5 | 4.5 | 1: Twin stem at 0.5m with narrow Union<br>2: situated on boundary of site within lawn area<br>3: minor bark wounds evident on scaffold branches<br>4: large exposed roots                                                          | no action required |                    | Good                    | 20-40<br><b>C</b>     | 3.48       |
|                                                                 |                                                             |            |              |          |                  |     |     |                                                                                                                                                                                                                                    | n/a                | 3                  | Fair                    |                       |            |
| T15                                                             | Early-Mature<br>Scots Pine<br><br>Pinus sylvestris          | 13         | 1.5          | 480      | 5.5              | 4   | 4.5 | 1: situated on boundary of site within lawn area<br>2: auxiliary stem evident at 2m with narrow Union<br>3: surface roots evident with mower damage<br>4: acceptable condition at present                                          | no action required |                    | Good                    | 40+<br><b>B</b>       | 5.76       |
|                                                                 |                                                             |            |              |          |                  |     |     |                                                                                                                                                                                                                                    | n/a                | 3                  | Good                    |                       |            |
| T16                                                             | Early-Mature<br>Wild Cherry<br><br>Prunus avium             | 12         | 1.5          | 330      | 5                | 5   | 4.5 | 1: single stemmed and vertical with an unbalanced crown<br>2: situated on boundary of site within lawn area<br>3: minor bark wound to main stem<br>4: surface roots evident its mower damage<br>5: acceptable condition at present | no action required |                    | Good                    | 40+<br><b>C+</b>      | 3.96       |
|                                                                 |                                                             |            |              |          |                  |     |     |                                                                                                                                                                                                                                    | n/a                | 3                  | Good                    |                       |            |
| T17                                                             | Early-Mature<br>Alder (common)<br><br>Alnus glutinosa       | 11         | 4.5          | 450      | 5.5              | 4   | 4.5 | 1: Single stemmed and vertical with a narrow, upright habit.<br>2: situated on boundary of site within lawn area<br>3: no significant defects observed                                                                             | no action required |                    | Good                    | 40+<br><b>B</b>       | 5.40       |
|                                                                 |                                                             |            |              |          |                  |     |     |                                                                                                                                                                                                                                    | n/a                | 3                  | Good                    |                       |            |
| T18                                                             | Semi-Mature<br>Rowan<br><br>Sorbus aucuparia                | 5.5        | 2            | 240      | 2.5              | 3   | 2.5 | 1: Single stemmed and vertical with a slightly unbalanced crown.<br>2: situated on boundary of site within lawn area<br>3: no significant defects observed                                                                         | no action required |                    | Good                    | 40+<br><b>C</b>       | 2.88       |
|                                                                 |                                                             |            |              |          |                  |     |     |                                                                                                                                                                                                                                    | n/a                | 3                  | Good                    |                       |            |

| Reference<br>T = Tree<br>G = Group<br>H = Hedge<br>W = Woodland | Age & Species                                        | Height (m) | Crown Ht (m) | DBH (mm) | Crown Spread (m)<br>N<br>W<br>E<br>S | Notes                                                                                                                                                                 | Recommendations    |                    | Physiological Condition | Life Expectancy (yrs) | RPA Radius |      |
|-----------------------------------------------------------------|------------------------------------------------------|------------|--------------|----------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|-------------------------|-----------------------|------------|------|
|                                                                 |                                                      |            |              |          |                                      |                                                                                                                                                                       | Priority           | Inspect Freq (yrs) | Structural Condition    | Retention Category    | (m)        |      |
| T19                                                             | Semi-Mature<br>Field Maple<br><br>Acer campestre     | 8          | 2            | 230      | 3<br>4.5<br>3.5<br>3                 | 1: twin stemmed at 0.5m with occluded union<br>2: situated on boundary of site within lawn area                                                                       | monitor            |                    | Good                    | 20-40                 | C          | 2.76 |
|                                                                 | Low                                                  |            |              |          |                                      |                                                                                                                                                                       | 3                  | Fair               |                         |                       |            |      |
| T20                                                             | Early-Mature<br>Wild Cherry<br><br>Prunus avium      | 10         | 3            | 330      | 6<br>4.5<br>2.5<br>3                 | 1: single stemmed and vertical with an unbalanced crown<br>2: situated on boundary of site within lawn area<br>3: no significant defects observed                     | no action required |                    | Good                    | 40+                   | C+         | 3.96 |
|                                                                 | n/a                                                  |            |              |          |                                      |                                                                                                                                                                       | 3                  | Good               |                         |                       |            |      |
| T21                                                             | Semi-Mature<br>Alder (common)<br><br>Alnus glutinosa | 12         | 3            | 200      | 2.5<br>2.5<br>2.5                    | 1: top of canopy dead and rest in decline                                                                                                                             | Remove             |                    | Poor                    | <10                   | U          | 2.40 |
|                                                                 | Moderate                                             |            |              |          |                                      |                                                                                                                                                                       | 1                  | Fair               |                         |                       |            |      |
| T22                                                             | Early-Mature<br>Wild Cherry<br><br>Prunus avium      | 9          | 3            | 400      | 3.5<br>3.5<br>4.5<br>4.5             | 1: Single stemmed and vertical with a slightly unbalanced crown.<br>2: situated in lawn area in close proximity to building<br>3: tight union with potential to split | monitor            |                    | Good                    | 10-20                 | C+         | 4.80 |
|                                                                 | n/a                                                  |            |              |          |                                      |                                                                                                                                                                       | 3                  | Fair               |                         |                       |            |      |
| T23                                                             | Early-Mature<br>Field Maple<br><br>Acer campestre    | 14         | 5            | 500      | 5<br>5<br>5                          | 1: trifurcates at 2m<br>2: roadside tree<br>3: suckering at base                                                                                                      | no action required |                    | Good                    | 40+                   | B          | 6.00 |
|                                                                 | n/a                                                  |            |              |          |                                      |                                                                                                                                                                       | 3                  | Good               |                         |                       |            |      |
| T24                                                             | Semi-Mature<br>Sycamore<br><br>Acer pseudoplatanus   | 10         | 2            | 500      | 4<br>4<br>4                          | 1: large wound to sire side from removed limb<br>2: bifurcates at 6m                                                                                                  | no action required |                    | Good                    | 40+                   | B          | 6.00 |
|                                                                 | n/a                                                  |            |              |          |                                      |                                                                                                                                                                       | 3                  | Good               |                         |                       |            |      |

| Reference<br>T= Tree<br>G = Group<br>H = Hedge<br>W = Woodland | Age & Species                                      | Height (m) | Crown Ht (m) | DBH (mm)  | Crown Spread (m)<br>N<br>W<br>E<br>S | Notes                                                                                                                                                                                                                                                                    | Recommendations                   |                    | Physiological Condition | Life Expectancy (yrs) | RPA Radius |                      |
|----------------------------------------------------------------|----------------------------------------------------|------------|--------------|-----------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------|-------------------------|-----------------------|------------|----------------------|
|                                                                |                                                    |            |              |           |                                      |                                                                                                                                                                                                                                                                          | Priority                          | Inspect Freq (yrs) |                         |                       |            | Structural Condition |
| G25                                                            | Semi-Mature<br><br>Mixed<br><br>Species            | av<br>8    | av<br>1      | av<br>150 | av<br>2<br>2<br>2<br>each            | 1: mixed sparse group consisting of sycamore, goat willow and hawthorn<br>2: no significant defects observed                                                                                                                                                             | no action required                |                    | Fair                    | 40+                   | C          | 1.80                 |
|                                                                | n/a                                                |            | 3            | Fair      |                                      |                                                                                                                                                                                                                                                                          |                                   |                    |                         |                       |            |                      |
| G26                                                            | Early-Mature<br><br>Mixed<br><br>Species           | av<br>10   | av<br>1      | av<br>400 | av<br>3<br>3<br>3<br>each            | 1: mixed boundary group consisting of larch, sycamore, birch and cherry<br>2: situated in elevation position from site in sections<br>3: deadwood present within group<br>4: Access prevented detailed inspection of base of group<br>5: acceptable condition at present | no action required                |                    | Good                    | 40+                   | B          | 4.80                 |
|                                                                | n/a                                                |            | 3            | Fair      |                                      |                                                                                                                                                                                                                                                                          |                                   |                    |                         |                       |            |                      |
| T27                                                            | Early-Mature<br><br>Larch<br><br>Larix decidua     | 10         | 4            | 330       | 3.5<br>3.5<br>4.5<br>3.5             | 1: Single stemmed and vertical with a slightly unbalanced crown.<br>2: situated with lawn area in close proximity to car park<br>3: previous pruning wounds evident<br>4: minor deadwood to lower crown<br>5: sparse canopy, tree possibly in decline                    | monitor                           |                    | Fair                    | 10-20                 | C          | 3.96                 |
|                                                                | Moderate                                           |            | 1            | Good      |                                      |                                                                                                                                                                                                                                                                          |                                   |                    |                         |                       |            |                      |
| G28                                                            | Semi-Mature<br><br>Mixed<br><br>Species            | av<br>5    | 2            | av<br>150 | av<br>2<br>2<br>2<br>each            | 1: mixed sparse boundary group consisting of hawthorn, elder and goat willow<br>2: minor deadwood evident in group<br>3: acceptable condition at present                                                                                                                 | no action required                |                    | Good                    | 40+                   | C          | 1.80                 |
|                                                                | n/a                                                |            | 3            | Fair      |                                      |                                                                                                                                                                                                                                                                          |                                   |                    |                         |                       |            |                      |
| T29                                                            | Mature<br><br>Norway Maple<br><br>Acer platanoides | 13         | 3            | 590       | 5.5<br>4.5<br>5<br>6                 | 1: twin stem at base<br>2: situated at edge of road<br>3: deadwood evident to lower crown<br>4: large girdling root to base                                                                                                                                              | remove containers and reinspected |                    | Fair                    | 40+                   | B          | 7.08                 |
|                                                                | Moderate                                           |            | 1            | Fair      |                                      |                                                                                                                                                                                                                                                                          |                                   |                    |                         |                       |            |                      |
| G30                                                            | Mature<br><br>Wild Cherry<br><br>Prunus avium      | av<br>11   | av<br>5      | av<br>450 | av<br>5<br>5<br>5<br>each            | 1: situated adjacent to road<br>2: previous pruning wounds evident<br>3: narrow branch unions evident within group                                                                                                                                                       | monitor                           |                    | Good                    | 20-40                 | B          | 5.40                 |
|                                                                | Low                                                |            | 3            | Fair      |                                      |                                                                                                                                                                                                                                                                          |                                   |                    |                         |                       |            |                      |

| Reference<br>T = Tree<br>G = Group<br>H = Hedge<br>W = Woodland | Age & Species                                        | Height (m) | Crown Ht (m) | DBH (mm)  | Crown Spread (m)<br>N<br>W      E<br>S | Notes                                                                                                                                                                                                                        | Recommendations    |                    | Physiological Condition | Life Expectancy (yrs) | RPA Radius |      |
|-----------------------------------------------------------------|------------------------------------------------------|------------|--------------|-----------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|-------------------------|-----------------------|------------|------|
|                                                                 |                                                      |            |              |           |                                        |                                                                                                                                                                                                                              | Priority           | Inspect Freq (yrs) | Structural Condition    | Retention Category    | (m)        |      |
| T31                                                             | Semi-Mature<br><br>Field Maple<br><br>Acer campestre | 7          | 4            | 280       | 2.5<br>2      2<br>1.5                 | 1: twin stem at 1m<br>2: situate adjacent road<br>3: previous pruning wounds evident<br>4: no significant defects observed                                                                                                   | no action required |                    | Good                    | 40+                   | C          | 3.36 |
|                                                                 | n/a                                                  |            |              |           |                                        |                                                                                                                                                                                                                              | 3                  | Good               |                         |                       |            |      |
| T32                                                             | Mature<br><br>Norway Maple<br><br>Acer platanoides   | 13         | 5            | 650       | 5      5<br>3                          | 1: single stemmed and vertical with an unbalanced crown<br>2: auxiliary stem evident at 2.5m with occluded Union<br>3: longitudinal split evident on main stem<br>4: large diameter limb removal evident with poor occlusion | Remove             |                    | Good                    | 10-20                 | U          | 7.80 |
|                                                                 | Moderate                                             |            |              |           |                                        |                                                                                                                                                                                                                              | 1                  | Poor               |                         |                       |            |      |
| T33                                                             | Semi-Mature<br><br>Rowan<br><br>Sorbus aucuparia     | 5          | 4            | 190       | 2      1<br>1.5                        | 1: twin stem a 1m with narrow union<br>2: situate adjacent road<br>3: acceptable condition at present                                                                                                                        | no action required |                    | Good                    | 40+                   | C          | 2.28 |
|                                                                 | n/a                                                  |            |              |           |                                        |                                                                                                                                                                                                                              | 3                  | Fair               |                         |                       |            |      |
| T34                                                             | Mature<br><br>Alder (common)<br><br>Alnus glutinosa  | 13         | 5            | 490       | 3.5      6<br>4                        | 1: single stemmed and vertical with an unbalanced crown<br>2: situate adjacent road<br>3: previous pruning wound evident with poor occlusion<br>4: acceptable condition at present                                           | no action required |                    | Good                    | 40+                   | B          | 5.88 |
|                                                                 | n/a                                                  |            |              |           |                                        |                                                                                                                                                                                                                              | 3                  | Good               |                         |                       |            |      |
| T35                                                             | Semi-Mature<br><br>Field Maple<br><br>Acer campestre | 6          | 4            | 260       | 3      5<br>2                          | 1: multi stem at 2m<br>2: situate adjacent road<br>3: multiple pruning wounds evident with slow occlusion<br>4: acceptable condition at present                                                                              | no action required |                    | Good                    | 40+                   | C          | 3.12 |
|                                                                 | n/a                                                  |            |              |           |                                        |                                                                                                                                                                                                                              | 3                  | Fair               |                         |                       |            |      |
| G36                                                             | Semi-Mature<br><br>Rowan<br><br>Sorbus aucuparia     | av<br>6.5  | av<br>3.5    | av<br>200 | av      2<br>2      2<br>each          | 1: situate adjacent road<br>2: previous pruning wounds evident<br>3: no significant defects observed                                                                                                                         | no action required |                    | Good                    | 40+                   | C          | 2.40 |
|                                                                 | n/a                                                  |            |              |           |                                        |                                                                                                                                                                                                                              | 3                  | Good               |                         |                       |            |      |

| Reference<br>T= Tree<br>G = Group<br>H = Hedge<br>W = Woodland | Age & Species                                        | Height (m) | Crown Ht (m) | DBH (mm)  | Crown Spread (m)<br>W N E<br>S | Notes                                                                                                                                                                                                                                | Recommendations    |                    | Physiological Condition | Life Expectancy (yrs) | RPA Radius |
|----------------------------------------------------------------|------------------------------------------------------|------------|--------------|-----------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|-------------------------|-----------------------|------------|
|                                                                |                                                      |            |              |           |                                |                                                                                                                                                                                                                                      | Priority           | Inspect Freq (yrs) | Structural Condition    | Retention Category    | (m)        |
| T37                                                            | Semi-Mature<br>Alder (common)<br><br>Alnus glutinosa | 9          | 5            | 200       | 3<br>3<br>3                    | 1: Single stemmed and vertical with a balanced crown.<br>2: situate adjacent road<br>3: no significant defects observed                                                                                                              | no action required |                    | Good                    | 40+                   | 2.40       |
|                                                                |                                                      |            |              |           |                                |                                                                                                                                                                                                                                      | n/a                | 3                  | Good                    | B                     |            |
| G38                                                            | Early-Mature<br>Field Maple<br><br>Acer campestre    | av<br>8    | av<br>5      | av<br>350 | av<br>4<br>4<br>4<br>each      | 1: situate adjacent road<br>2: previous pruning wounds evident<br>3: no significant defects observed                                                                                                                                 | no action required |                    | Good                    | 40+                   | 4.20       |
|                                                                |                                                      |            |              |           |                                |                                                                                                                                                                                                                                      | n/a                | 3                  | Good                    | B                     |            |
| T39                                                            | Semi-Mature<br>Rowan<br><br>Sorbus aucuparia         | 7          | 3            | 130       | 1<br>0.5<br>0                  | 1: Single stemmed and vertical with a narrow, upright habit.<br>2: situate adjacent road<br>3: no significant defects observed                                                                                                       | no action required |                    | Fair                    | 40+                   | 1.56       |
|                                                                |                                                      |            |              |           |                                |                                                                                                                                                                                                                                      | n/a                | 3                  | Good                    | C                     |            |
| T40                                                            | Semi-Mature<br>Norway Maple<br><br>Acer platanoides  | 7          | 3.5          | 220       | 2<br>2<br>1.5                  | 1: single stemmed and vertical with an unbalanced crown<br>2: twisted stem with high potential for failure<br>3: pruning wounds evident with poor occlusion<br>4: situate adjacent road<br>5: no long term future, low hanging crown | Remove             |                    | Fair                    | <10                   | 2.64       |
|                                                                |                                                      |            |              |           |                                |                                                                                                                                                                                                                                      | Low                | n/a                | Poor                    | U                     |            |
| G41                                                            | Early-Mature<br>Mixed<br><br>Species                 | av<br>15   | av<br>5      | av<br>400 | av<br>4<br>4<br>4<br>each      | 1: mixed species group consisting of predominately sycamore with some lime and elder<br>2: Deadwood throughout group<br>3: situated adjacent road                                                                                    | Remove deadwood    |                    | Good                    | 40+                   | 4.80       |
|                                                                |                                                      |            |              |           |                                |                                                                                                                                                                                                                                      | High               | 3                  | Fair                    | B                     |            |

## Appendix 2 - Tree Schedule Definition of Terms

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tree Referencing</b>         | <b>Individual Trees</b> T (+number)<br><b>Grouped Trees</b> G (+number)<br><b>Hedgerows</b> H (+number)<br><b>Woodlands</b> W(+number)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Age Category</b>             | <b>Young</b> Usually <15 years<br><b>Semi-mature</b> Significant growth expected, approximately one third of life expectancy complete<br><b>Early-Mature</b> Full height achieved with further significant growth possible, up to two thirds of life expectancy complete<br><b>Mature</b> Full height has been achieved with possible spreading of the canopy, usually past two thirds of overall life expectancy<br><b>Veteran</b> Usually a tree of significant age with characteristics that give additional cultural, landscape and conservation benefits,<br><b>Over-mature</b> A tree declining due to age as indicated by deterioration in the health and condition of its crown and trunk. |
| <b>Species</b>                  | <b>Botanical Name</b> conforming to the International Code of Nomenclature for algae, fungi, and plants (ICN). For universal plant recognition.<br><b>Common Name</b> commonly used names usually on a local and national scale.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tree Height</b>              | The vertical distance between the base of the tree (where soil and buttress meet) and the tip of the highest branch on the tree.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Crown Height</b>             | Measured from ground level to the height at which the main crown begins.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Stem Diameter (DBH)</b>      | Stem diameter is measured at 1.5 m above ground level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Crown</b>                    | Measurements taken from all four cardinal points in metres.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Notes</b>                    | Notes are made to inform of any possible defects, peculiarities or points of interest that may relate to the trees position, physiology, safety and possible effects on developments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Recommendations</b>          | Recommendations are made in accordance to good arboricultural practice. Recommendations are made regardless to the end usage of the site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Priority Scale</b>           | Priority is given dependant on the perceived threat and the likelihood of failure given to a possible hazard. The priority of work is given regardless of the end usage of the site.<br><b>Urgent</b> To be carried out as soon as possible.<br><b>Very High</b> To be carried out within 1 month.<br><b>High</b> To be carried out within 3 months.<br><b>Moderate</b> To be carried out within 1 year.<br><b>Low</b> To be carried out within 3 years.                                                                                                                                                                                                                                           |
| <b>Physiological Condition:</b> | <b>Good</b> Usually healthy with no symptoms of poor health or disease.<br><b>Fair</b> Exhibiting signs of poor health or minor disease infections that are not considered to be hazardous.<br><b>Poor</b> Disease present in considerable quantities or with very poor physiological vigour.<br><b>Very Poor</b> Tree is in a moribund state in extremely poor condition, usually with little chance of recovery.                                                                                                                                                                                                                                                                                 |
| <b>Structural Condition:</b>    | <b>Good</b> A tree with no significant structural defects.<br><b>Fair</b> Minor defects may have been observed but are not considered to be immediately hazardous.<br><b>Poor</b> Significant defects found. Tree requires monitoring or remedial works.<br><b>Very Poor</b> Major defects that require immediate remedial work or the removal of the tree.                                                                                                                                                                                                                                                                                                                                        |
| <b>Life Expectancy:</b>         | The estimated number of years before the tree may require removal should no unexpected mechanical or environmental impacts occur to the tree.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Retention Category:</b>      | Please refer to Tree retention categorisation table on the next page.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Appendix 3 - Tree Retention Category

The following table provides an explanation of retention categories used.

| Trees to be removed                                                                                                                                           |                                                                                                                                                                                                                                              | Colour on Plan |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Category U</b><br>Includes trees of very low quality that offer little or no amenity value.                                                                | Trees that are in such a condition that they should be removed as a matter of good arboricultural practice regardless of given proposals.                                                                                                    | RED            |
| Trees to be considered for retention                                                                                                                          |                                                                                                                                                                                                                                              |                |
| <b>Category A</b><br>Trees of a high quality, with an estimated life of expectancy of at least 40 years                                                       | Trees that are excellent examples of their species, usually mature, especially if rare or unusual including veteran trees. Category A trees are likely to enhance a development and should be retained wherever possible.                    | GREEN          |
| <b>Category B</b><br>Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.                                              | Trees that are good examples of their species. B category trees are usually mature or younger trees with the potential to reach A category in the future. Although the retention of these trees is desirable, some losses may be acceptable. | BLUE           |
| <b>Category C</b><br>Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm. | Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories.                                                                                                                           | GREY           |

**NOTE:** Trees that are viewed as borderline and do not fit neatly into either of the categories are given a plus or minus rating (+/-) in the tree data schedule. Therefore, C+ would denote a tree being borderline C/B although C is deemed to be the most appropriate category. Similarly, B- would denote a tree being borderline B/C with B seen as the most appropriate category.

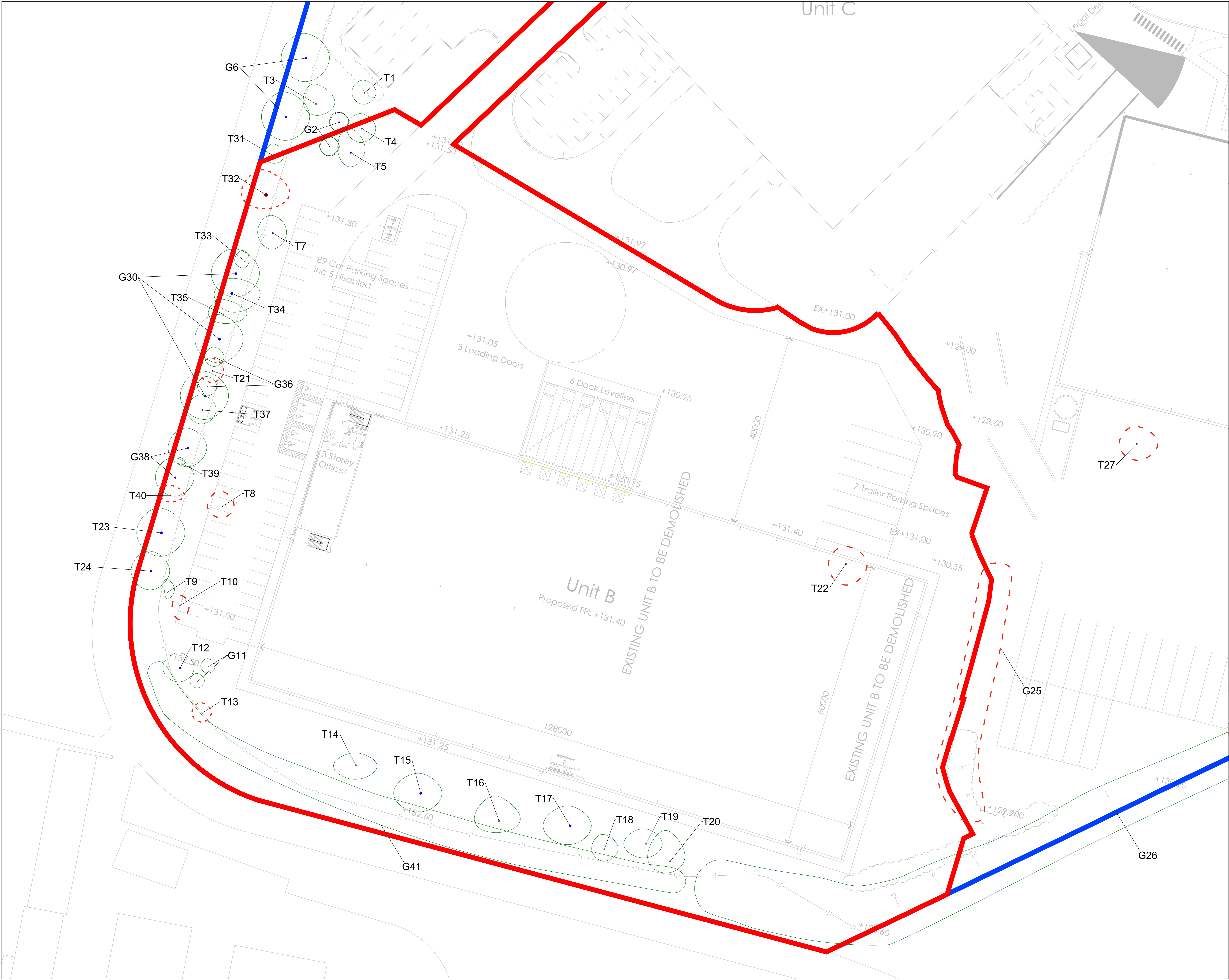
## **Appendix 4 - Site Plans**

The site plans referred to in the report follow this page which include the following:

- Tree Constraints Plan
- Tree Removal Plan
- Tree Works Schedule
- Tree Protection Plan
- Tree Protection Inserts

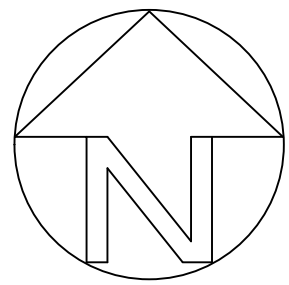
Although included plans are usually to scale, they are only intended to indicate positions of surveyed trees and dimensions should not be taken from these drawings.





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#### Notes:-



|  |                                 |
|--|---------------------------------|
|  | Category A tree, group or hedge |
|  | Category B tree, group or hedge |
|  | Category C tree, group or hedge |
|  | Category U tree, group or hedge |
|  | Retained tree                   |
|  | Removed tree                    |
|  | Extents of pruning              |

All tree stem positions are estimated on site

| REV. | DATE | DESCRIPTION | DRAWN | CHK'D |
|------|------|-------------|-------|-------|
|------|------|-------------|-------|-------|



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Client: **YEARGATE LIMITED**

Project: **BIRCH BUSINESS  
PARK UNIT B**

Title: **TREE REMOVAL PLAN**

Issue: **PLANNING**

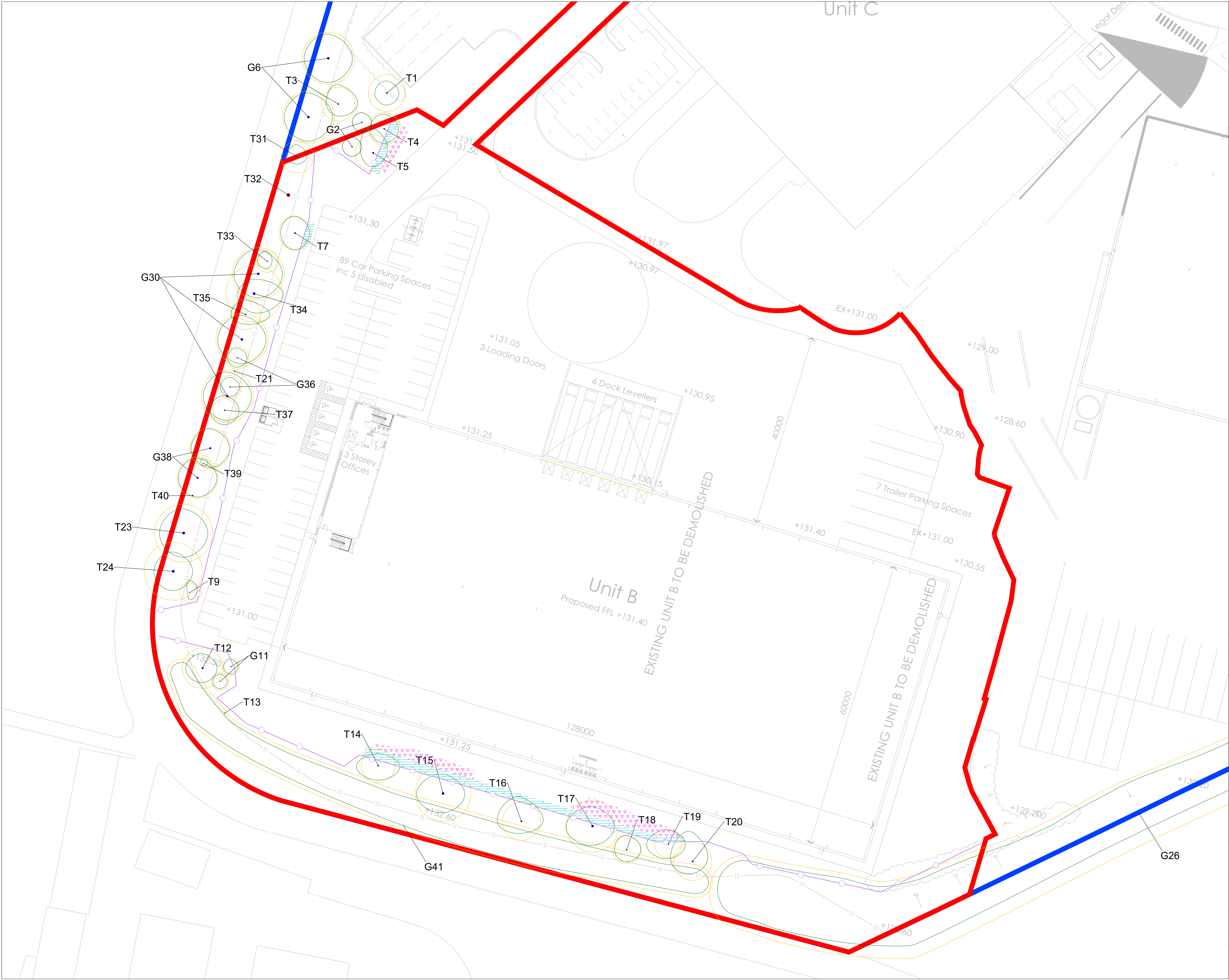
|           |             |              |
|-----------|-------------|--------------|
| Drawn: EA | Checked: RH | Approved: AB |
|-----------|-------------|--------------|

|                 |                   |                |
|-----------------|-------------------|----------------|
| Project: UG1236 | Scale @ A0: 1:250 | Date: 31/08/21 |
|-----------------|-------------------|----------------|

|                            |              |
|----------------------------|--------------|
| Dwg No: UG_1236_ARB_TRP_01 | Revision: 00 |
|----------------------------|--------------|

| Tree Works Schedule                                                                          |               |                                                     |                               |
|----------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------|-------------------------------|
| Tree Number                                                                                  | Species       | Works Required                                      | Reason                        |
| T8                                                                                           | Plum          | Removal                                             | To facilitate the development |
| T10                                                                                          | Alder         |                                                     |                               |
| T22                                                                                          | Wild cherry   |                                                     |                               |
| G25                                                                                          | Mixed species |                                                     |                               |
| Previously recommeneded for removal within application of Unit D- approval ref: 20/00955/FUL |               |                                                     |                               |
| G26                                                                                          | Mixed         | Prune back section as detailed on Tree Removal Plan | To facilitate the development |
| T27                                                                                          | Larch         | Remove                                              |                               |
| T29                                                                                          | Norway Maple  |                                                     |                               |
| T13                                                                                          | Sycamore      | Remove                                              | Arboricultural management     |
| T21                                                                                          | Alder         |                                                     |                               |
| T32                                                                                          | Norway Maple  |                                                     |                               |
| T40                                                                                          | Norway Maple  |                                                     |                               |
| G41                                                                                          | Mixed Species | Remove Deadwood                                     |                               |

|                                                                                                                                                                                                                   |      |                 |                |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------|----------------|-------|
| REV.                                                                                                                                                                                                              | DATE | DESCRIPTION     | DRAWN          | CHK'D |
| <div><div>U R B A N<br/>G R E E N</div><div>A: Ground Floor, The Tower,<br/>Deva City Office Park, Trinity Way,<br/>Manchester M3 7BF<br/><br/>T: +44 (0) 161 312 3131<br/><br/>weareurbangreen.co.uk</div></div> |      |                 |                |       |
| Client: YEARGATE LIMITED                                                                                                                                                                                          |      |                 |                |       |
| Project: BIRCH BUSINESS<br>PARK UNIT B                                                                                                                                                                            |      |                 |                |       |
| Title: TREE WORKS SCHEDULE                                                                                                                                                                                        |      |                 |                |       |
| Issue: PLANNING                                                                                                                                                                                                   |      |                 |                |       |
| Drawn: EA                                                                                                                                                                                                         |      | Checked: RH     | Approved: AB   |       |
| Project: UG1236                                                                                                                                                                                                   |      | Scale @ A0: NTS | Date: 31/08/21 |       |
| Dwg No: UG_1236_ARB_TWS_01                                                                                                                                                                                        |      |                 | Revision: 00   |       |



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### Notes:-

Category A tree, group or hedge

Category B tree, group or hedge

Category C tree, group or hedge

Category U tree, group or hedge

Retained tree

Root Protection Area (RPA)

Redline Site Boundary

Protective fencing (See Insert 1 & Insert 2)

Removal of existing hard standing within RPA

Ground protection

All tree stem positions are estimated on the site

| REV. | DATE | DESCRIPTION | DRAWN | CHK'D |
|------|------|-------------|-------|-------|
|      |      |             |       |       |
|      |      |             |       |       |

URBAN GREEN

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Client:  
**YEARGATE LIMITED**

Project:  
**BIRCH BUSINESS PARK UNIT B**

Title:  
**TREE PROTECTION PLAN**

Issue:  
**PLANNING**

Drawn: EA

Checked: RH

Approved: AB

Project: UG\_1236

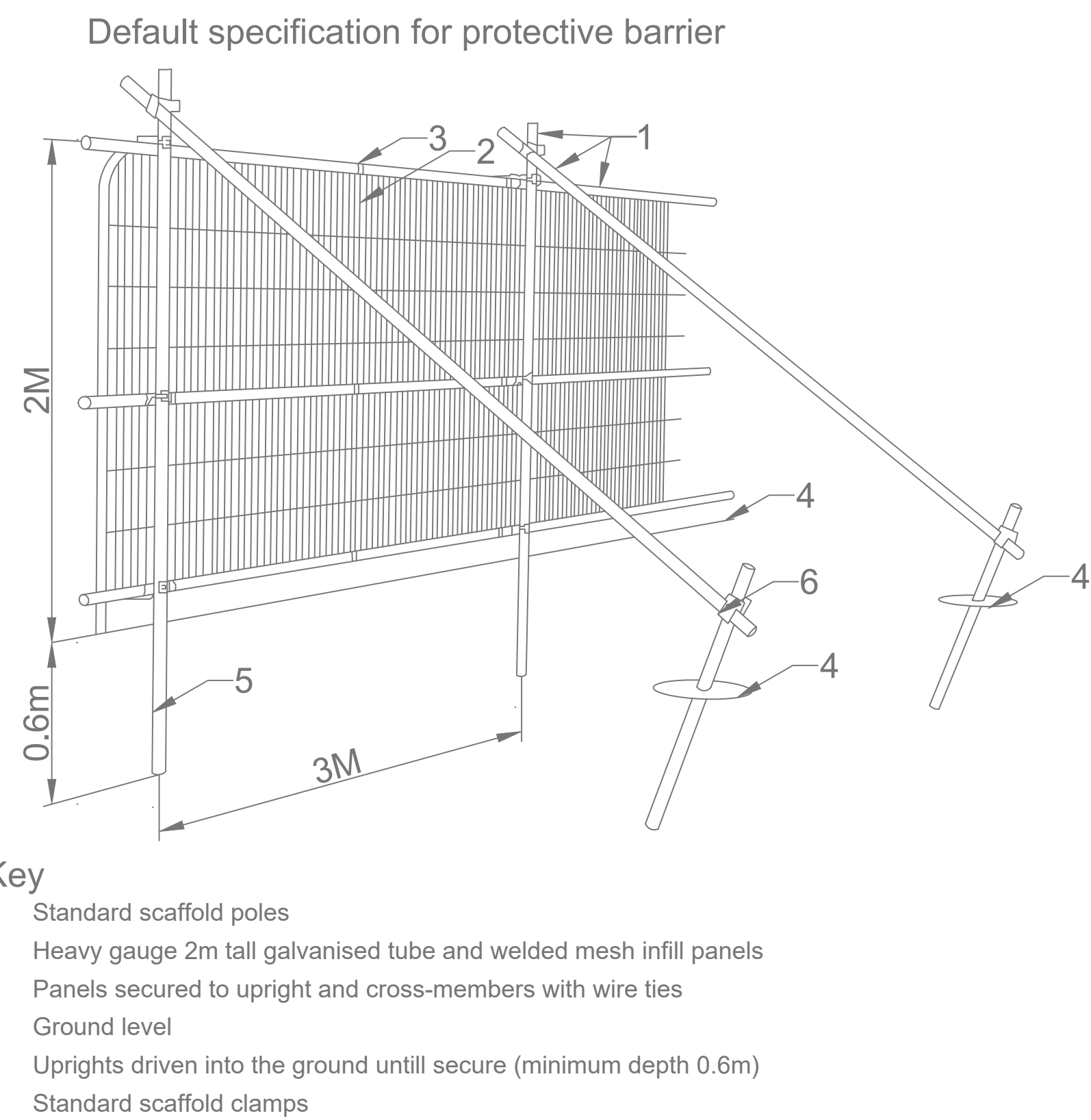
Scale @ A0: 1:250

Date: 31/08/21

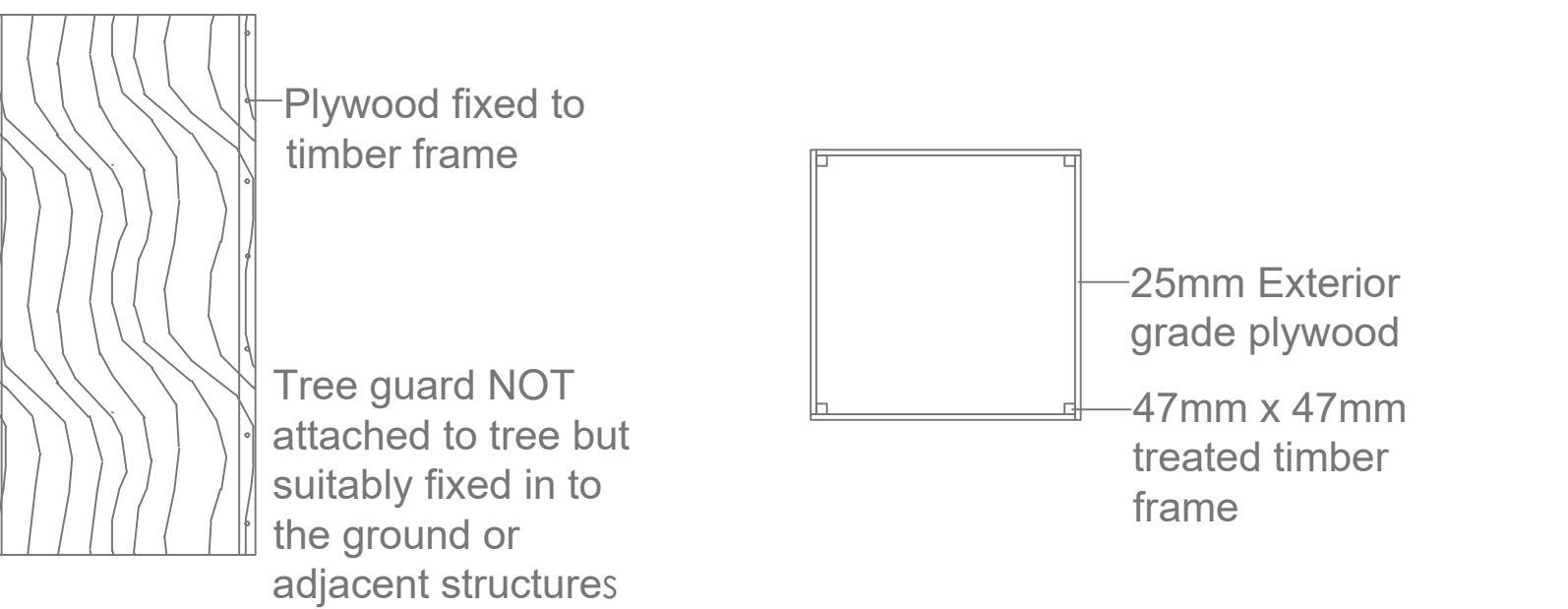
Dwg No: UG\_1236\_ARB\_TPP\_01

Revision: 00

Insert 1: Tree protective fencing specification



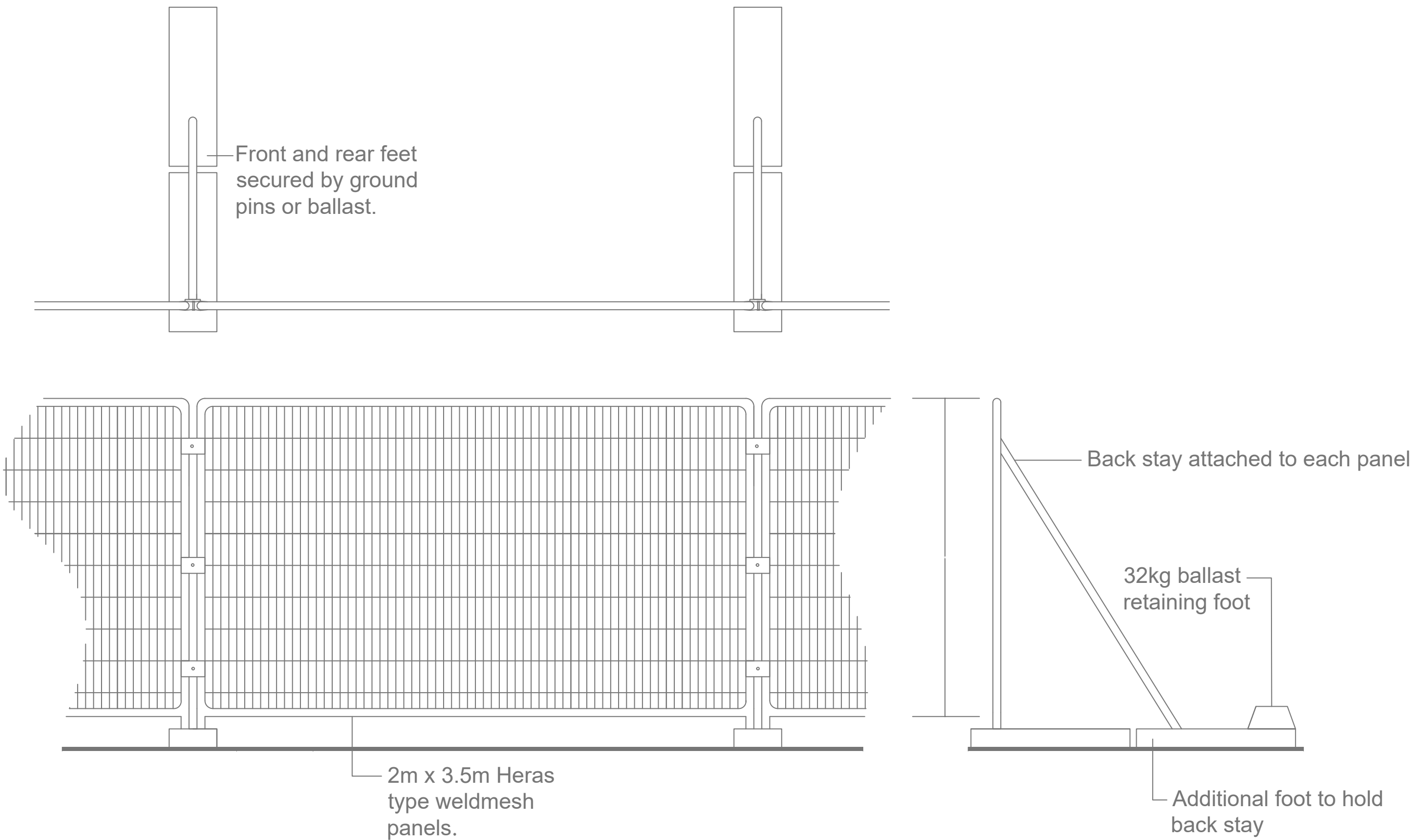
Temporary tree guard specification



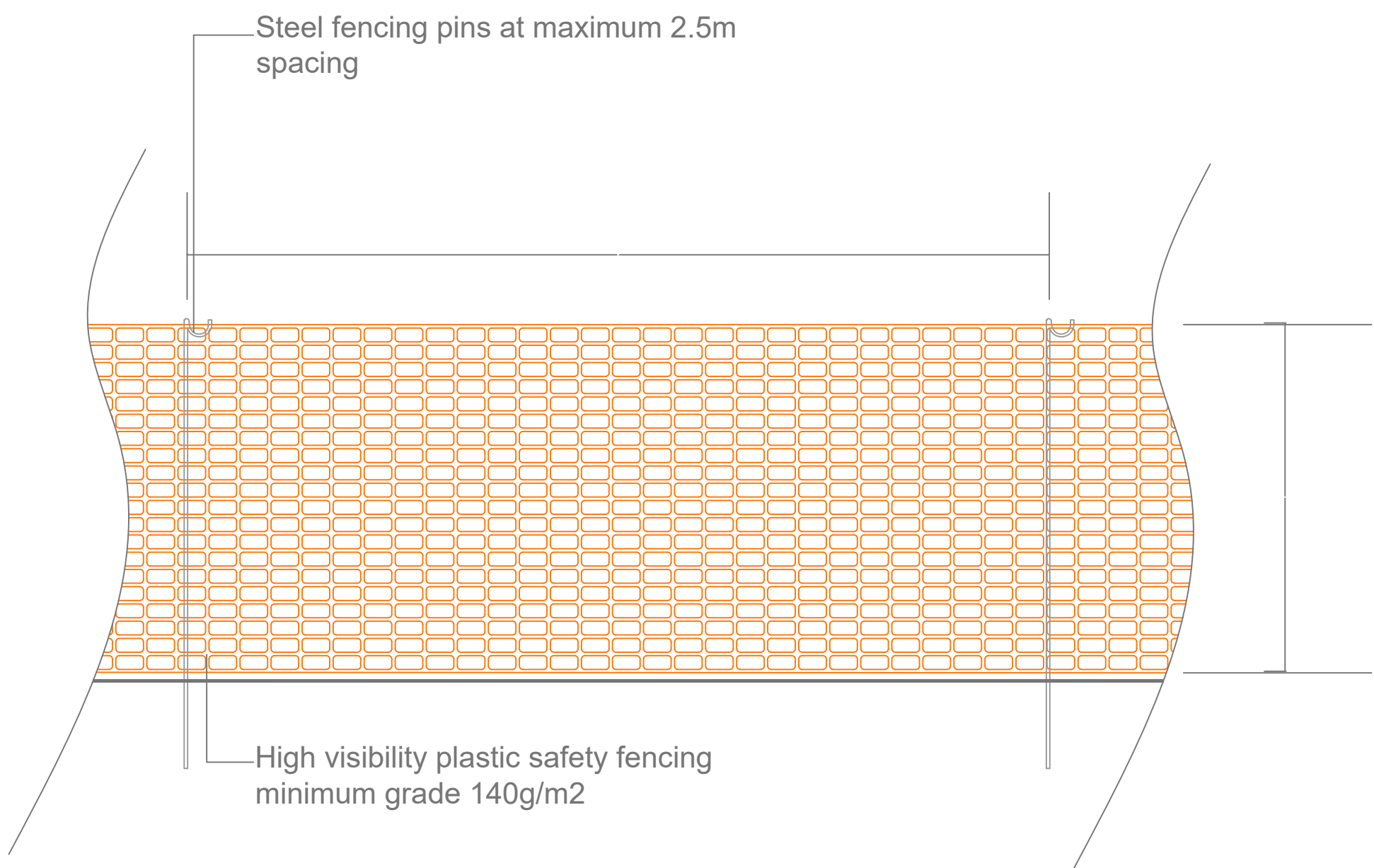
Insert 2: Tree protection notice



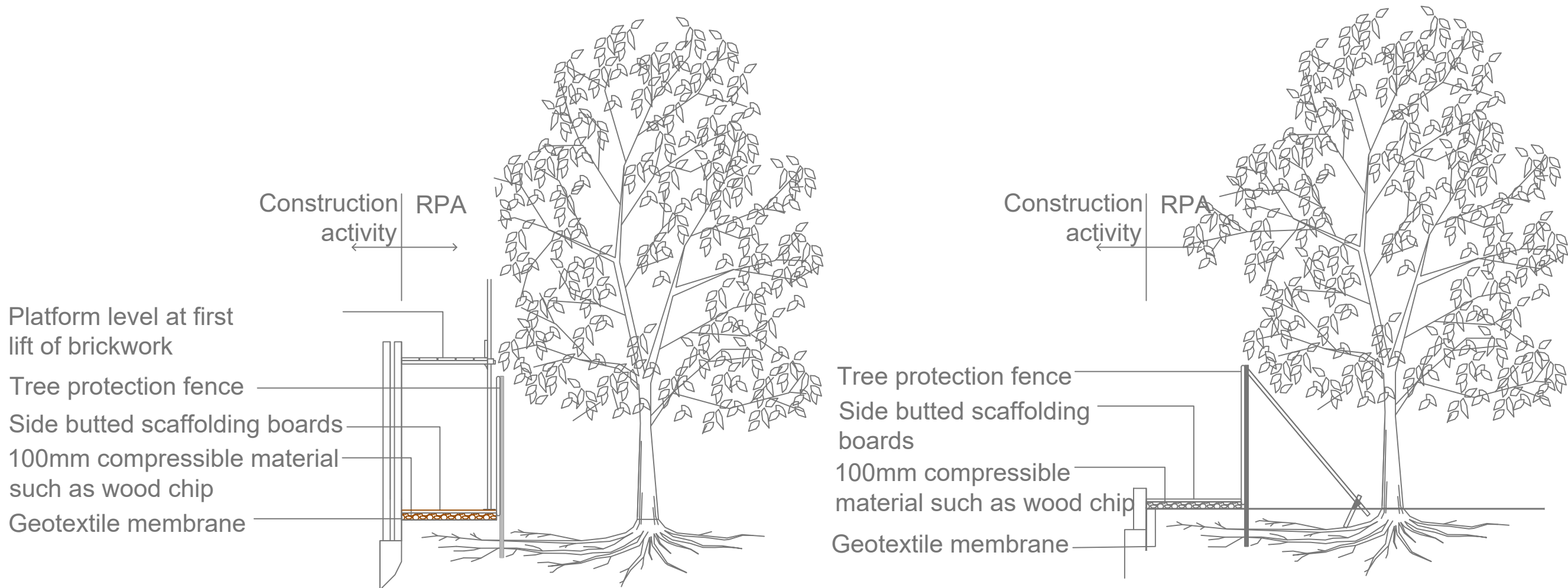
Back-stay support



Barrier mesh specification

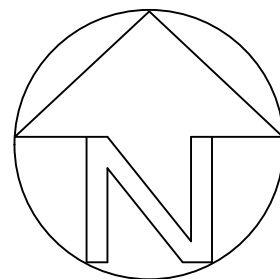


Insert 3: Ground protection specification



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Notes:-



| REV. | DATE | DESCRIPTION | DRAWN | CHK'D |
|------|------|-------------|-------|-------|
|      |      |             |       |       |
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Client: **YEARGATE LIMITED**

Project: **BIRCH BUSINESS  
PARK UNIT B**

Title: **TREE PROTECTION INDEX**

Issue: **PLANNING**

|                            |                 |                |
|----------------------------|-----------------|----------------|
| Drawn: EA                  | Checked: RH     | Approved: KO   |
| Project: UG1236            | Scale @ A0: NTS | Date: 31/08/21 |
| Dwg No: UG_1236_ARB_TPI_01 | Revision: 00    |                |