



## Report

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**TEMPORARY COMPOUNDS  
(RIVER HODDER BRIDGE)  
ARBORICULTURAL IMPACT  
ASSESSMENT**

**STRABAG UK LIMITED**

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# Newton-in-Bowland (Hodder Crossing) – BS 5837: 2012 Arboricultural Report, Impact Assessment and Method Statement

Strabag UK Ltd

Date: 10/12/2025

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Ref: 25991-3

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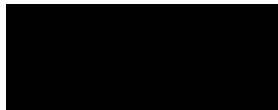
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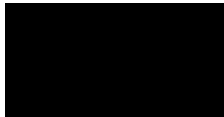


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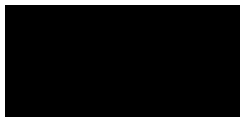


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# Executive Summary

On behalf of Strabag UK Ltd (the Client), Cura Terrae Land and Nature Limited (Cura Terrae) has carried out a tree survey to BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations in November 2025 at the site referred to as Newton-in-Bowland (Hodder Crossing). This survey has formed the basis for an assessment of the impacts that development proposals may have on the existing tree cover and recommends methodologies that will need to be adopted to protect retained trees during development.

The survey recorded all significant trees within the site and those that may be affected by any development proposed within the site boundary, recording several parameters, including species, crown spread, and Root Protection Area (RPA).

The RPA of any given tree is calculated in accordance with BS 5837:2012 and is generally a circular plot centred on its stem. This area around each tree should not be disturbed by excavation, compaction, contamination, or other related demolition and construction activities. Minor encroachment into the RPA may be possible if specific methodologies are implemented that reduce the likelihood of the tree being negatively impacted.

The survey recorded ninety-nine (99) individual trees, twenty-four (24) tree groups, seven (7) hedgerows and one (1) woodland. Collectively, the one hundred and thirty-one (131) surveyed tree entities were composed primarily of species considered native to the UK.

An enquiry was lodged by Cura Terrae with the Ribble Valley Borough Council (RVBC) Planning Department on 10/12/2025, as to the presence of TPOs or other tree constraints upon the subject site. Verbal confirmation from RVBC, received January 12<sup>th</sup> 2026, indicated that there were no TPO/Conservation area overlays as pertain to the proposal area.

An online search using the Multi Agency Geographical Information for the Countryside (MAGIC) website for statutory conservation sites was undertaken (where appropriate) to determine the presence of Ancient Woodland within 15.0 metres of the site boundary.

United Utilities is replacing six existing underground tunnel sections of the 110-kilometre Haweswater Aqueduct (Haweswater Aqueduct Resilience Programme - HARP). To facilitate the replacement of the tunnel sections, vegetation clearance and arboricultural works are required, which are to be informed by Arboricultural Impact Assessments (AIA) specific to the nominated project sites.

This report details arboricultural impacts at Site 1 - Newton-in-Bowland Compound (including Hodder Crossing).

The implementation of this project will require the removal (or partial removal) of twenty-two (22) tree entities, with the potential to remove a further sixteen (16) tree entities as the project continues to develop. Construction works may also have an impact on the roots, stems, and canopies of retained trees unless suitable protection measures are put in place.

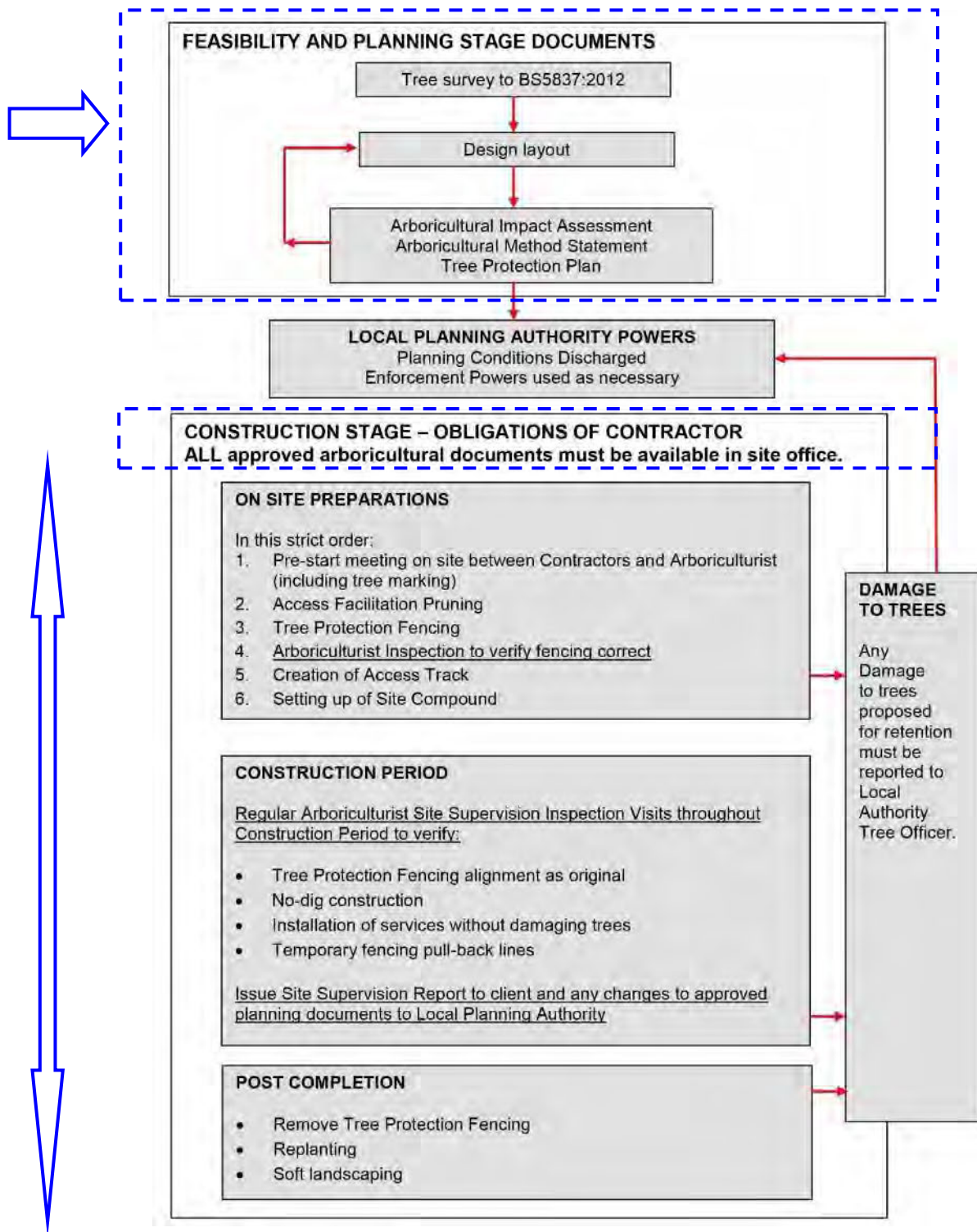
This report details the potential arboricultural impacts of development at the site and offers a range of protection measures and construction methodologies that should be adopted. These measures aim to prevent accidental damage and other adverse effects on the health of retained trees.

The report also makes recommendations for any measures to mitigate or compensate for the loss of trees within the site and the likely impact on the site and the wider local landscape.

# 1. Introduction

## 1.1 Context of this Report in the Planning System

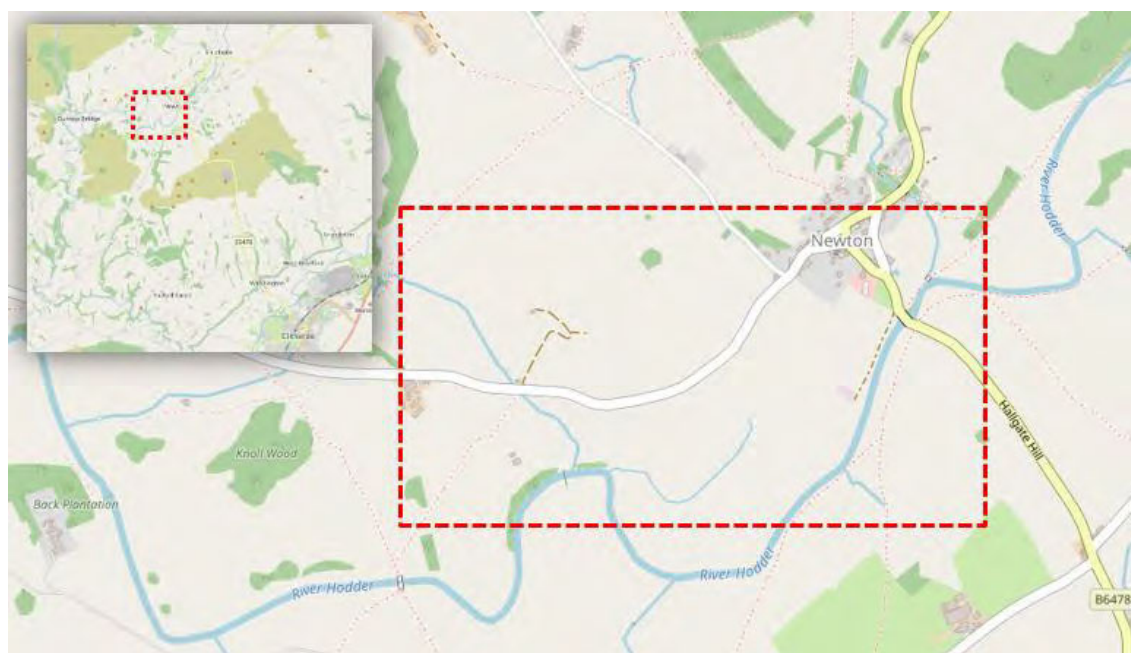
Figure 1: The Design and Construction Process and Tree Care



## 1.2 Location

- 1.2.1 Cura Terrae Land and Nature Limited has been commissioned by the Client to undertake a tree survey of the site which was situated to the south west of Newton-in-Bowland, within the Ribble Valley district of Lancashire, Ordnance Survey UK Grid Reference SD 69188 49949 (approx.), and prepare the findings in a report. The site's location is shown in Figure 2.

**Figure 2: Location Map**



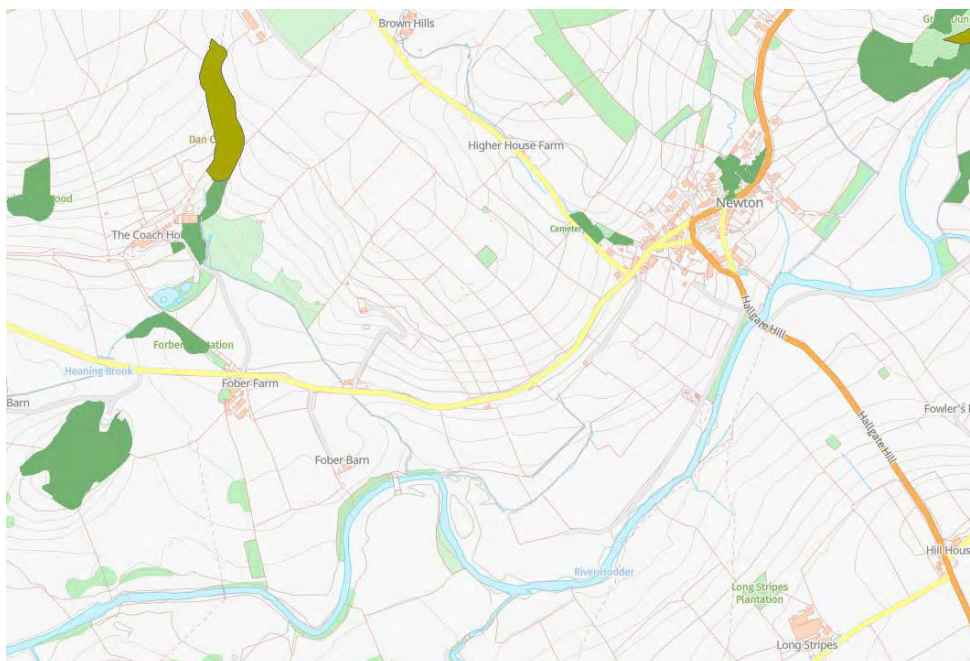
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## 1.3 Tree Designations

- 1.3.1 An enquiry was lodged via email (10/12/2025) with Ribble Valley Borough Council (RVBC) as to the presence of TPOs or other known tree constraints pertaining to the subject site. A mapped response to this enquiry has not been provided, but verbal confirmation from Dave Hewitt (Countryside/Tree Officer – RVBC), received January 12th 2026, indicated that there were no TPO/Conservation area overlays as pertain to the proposal area.
- 1.3.2 The permission of the local planning authority must be sought before any works are carried out on protected trees. Potentially unlimited fines can be imposed for illegally carrying out any works on protected trees.
- 1.3.3 Reference to the Multi Agency Geographical Information for the Countryside (MAGIC) website indicates that an Ancient Replanted Woodland (R2265)/Ancient & Semi-Natural Woodland (1413096) named Dan Clough, is located to the north of the survey area, but is not within a 15.0 metre buffer of the survey/subject site (See Figure 2a).



**Figure 2a: Ancient/Replanted Woodland - Location Map (MAGIC)**



**MAGIC online mapping tool - 2025 (Natural England/Landmark Solutions).** Priority Habitat Inventory – Deciduous Woodland hatched in green with Dan Clough hatched in brown (annotations added by author)

## 1.4 Protected Species

### **Bats**

- 1.4.1 Mature trees can often contain cavities or hollows, which provide potential roosting locations for bats. Bats and the places they use for shelter or protection (i.e., roosts) are protected under *The Conservation of Habitats and Species Regulations 2017* (Habitats Regulations 2017). They also receive legal protection under the *Wildlife and Countryside Act* (WCA) 1981. Consequently, causing damage to a bat roost constitutes an offence.
- 1.4.2 Generally, should the presence of a bat roost be suspected whilst completing works on any trees on site, then an appropriately licensed bat worker should be consulted for advice.

### **Birds**

- 1.4.3 Trees and hedgerows can provide habitat for nesting birds, which are protected under the *Wildlife and Countryside Act* (WCA) 1981. Some species are further protected by special penalties. This legislation makes it an offence to intentionally or recklessly damage or destroy an active bird nest or part thereof.

- 1.4.4 As the trees at the site provide potential habitat for nesting birds, all tree work should ideally be completed outside the peak nesting bird season (Generally March to August inclusive).
- 1.4.5 If this is not possible, then the vegetation should be subject to a nesting bird inspection by a suitably experienced ecologist before commencement of works. If active nests are identified, then the vegetation and a defined buffer zone will need to remain in place until the young have fully fledged.



## 2. Tree Survey Methodology

### 2.1 Site survey

- 2.1.1 Cura Terrae has undertaken the tree survey in accordance with BS 5837:2012 *Trees in relation to design, demolition and construction – Recommendations*, to provide detailed and independent arboricultural advice in the context of potential development. The survey was a ground-based visual inspection carried out by a suitably qualified arboriculturist. No trees were tagged as part of the survey.
- 2.1.2 The tree survey was carried out between 24th and 26th November 2025 by Andrew Bagshaw and Liam Evans – Consultant Arborists, when deciduous trees were generally not in leaf or may be in partial leaf.
- 2.1.3 The weather on the days of the survey was predominantly clear and bright, which allowed for a thorough inspection of all trees within the survey area.
- 2.1.4 The survey recorded trees with a stem diameter of 75 millimetres or more at a height of 1.5 metres above ground level within the site boundary. Any significant trees outside the boundary that could be significantly affected by the future development of the site were also recorded.

The following characteristics were recorded:

- Species
- Stem diameter at 1.5 m above ground level (mm)
- Estimated height (m)
- Approximate crown spread (m) in North, East, South, and West directions
- Estimate of the number of years that the tree is likely to remain suitable for retention
- Age class
- Condition category in accordance with BS 5837:2012. The categories are defined as:

- o **Category U** = Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years
  - o **Category A** = Trees of high quality with an estimated remaining life expectancy of at least 40 years
  - o **Category B** = Trees of moderate quality with an estimated remaining life expectancy of at least 20 years
  - o **Category C** = 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
  - Value subcategories where appropriate in accordance with BS 5837:2012. These are defined as:
    - o 1 = Mainly arboricultural qualities
    - o 2 = Mainly landscape qualities
    - o 3 = Mainly cultural values, including conservation
  - General notes about physiological and structural condition and any management recommendations
- 2.1.5 All survey data has been based on a topographical survey where possible, as supplied by the Client. Where topographical information has not identified tree positions or Ordnance Survey mapping has been utilised, trees and hedgerows have been positioned using GPS and aerial photography to provide approximate locations in relation to existing surrounding features. Further confirmation of tree locations (including trees nominated for removal) through a topographical survey of the site is recommended to ensure future design accuracy.
- 2.1.6 Some measurements for trees with limited accessibility may have been estimated. This is highlighted with a hash (#) symbol in the Tree Survey Schedule in Appendix 1.
- 2.1.7 Where trees formed a contiguous canopy, they may have been grouped, in line with the guidance of BS 5837:2012. If densely wooded areas are not expected to be directly affected by development proposals, only the significant trees at the woodland perimeter will have been surveyed.

- 2.1.8 Trees are living organisms that change over time. A re-survey of all trees should be carried out if there have been any significant storm events or more than 12 months have passed since the survey was carried out.

## **2.2 Calculation of Root Protection Area (RPA)**

- 2.2.1 The Root Protection Area (RPA) is calculated according to the formulae set out in BS 5837:2012. This is a layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure should be treated as a priority.
- 2.2.2 Due to the specific topography of the site and the presence of surrounding structures, the RPA is likely to be a simplified representation of the actual morphology and disposition of tree roots. Any deviation in the shape of the RPA from the calculated circular shape will largely be based on conjecture and so should generally be avoided. However, where significant site features are present that could clearly influence the disposition of tree root growth (e.g., water courses, building foundations, and retaining walls), the RPA may be amended to take these features into account.

## 3. Tree Survey Results

### 3.1 General Site Description

- 3.1.1 The site consisted predominantly of agricultural/grazing fields and buffer areas along the River Hodder that extended approximately 1-2 kilometres out to the south west of Newton-in-Bowland.
- 3.1.2 Surveyed trees at the site were predominantly located along field and access boundaries or along watercourse buffer areas.

### 3.2 Results of Tree Survey

- 3.2.1 The Tree Survey Schedule in Appendix 1 details the results of the tree survey and includes any management recommendations. The schedule should be read in conjunction with the tree plans in Appendix 3, which show the location of each tree and group surveyed and the extent of their canopies and RPA.
- 3.2.2 One hundred and thirty-one (131) tree entities were recorded within the survey; a summary of the tree survey findings is shown in Table 1.

**Table 1: Summary of Tree Survey Findings**

| Category A       | Category B       | Category C       | Category U      |
|------------------|------------------|------------------|-----------------|
| Trees: 11        | Trees: 32        | Trees: 52        | Trees: 4        |
| Groups: 2        | Groups: 18       | Groups: 4        | Groups: 0       |
| Woodlands: 1     | Woodlands: 0     | Woodlands: 0     | Woodlands: 0    |
| Hedgerows: 0     | Hedgerows: 5     | Hedgerows: 2     | Hedgerows: 0    |
| <b>Total: 14</b> | <b>Total: 55</b> | <b>Total: 58</b> | <b>Total: 4</b> |

- 3.2.3 The most significant trees from a landscape perspective included the establishing woodland (W021), which provided collective value, in addition to several Category A retention value Sycamore and Common Ash specimens.
- 3.2.4 Multiple hedgerows were mapped and recorded within the survey, which primarily consisted of hawthorn and presented with varying degrees of management.

- 3.2.5 Four (4) trees were assigned Retention Category U status as they cannot realistically be retained within the current site context for more than 10 years. In some circumstances, Category U trees can be retained for the short-term amenity and ecosystem service benefits that they provide.

### 3.3 Ash Die Back (*Hymenoscyphus fraxineus*)

- 3.3.1 Ash Die Back (ADB), also known as Chalara or Chalara Dieback of Ash, is a disease of ash trees caused by a fungus called *Hymenoscyphus fraxineus*. ADB causes leaf loss, crown dieback and bark lesions in affected trees. Once a tree is infected, the disease is usually fatal, either directly or indirectly, by weakening the tree to the point where it succumbs more readily to attacks by other pests or pathogens.
- 3.3.2 It is difficult to assign ash trees a retention category using the BS5837:2012 standards because of ADB. The general advice from public bodies is to retain ash trees and see how the disease develops within the local population. However, if clear signs of ADB are found on sites, it is highly likely that all the ash trees on that site will succumb in time. It could, therefore, be unreasonable to consider an ash tree a significant constraint to development.
- 3.3.3 The Tree Council has produced a document giving guidance to tree owners and managers on how to deal with ADB/Ash dieback: an Action Plan Toolkit<sup>1</sup> (Summer 2019). This gives guidance on assessing the danger posed by trees infected with ADB. Cura Terrae have adopted the Suffolk County Council Ash Health Assessment System (Appendix 4). The system categorises ash trees with ADB symptoms into 4 classes:
- Ash Health Class (AHC) 1 – 100% - 75% Live Canopy (Vitality Class 0)
  - Ash Health Class (AHC) 2 – 75% - 50% Live Canopy (Vitality Class 1)
  - Ash Health Class (AHC) 3 – 50% - 25% Live Canopy (Vitality Class 2)
  - Ash Health Class (AHC) 4 – 25% - 0% Live Canopy (Vitality Class 3)
- 3.3.4 Many local authorities have concluded that any trees which fall within AHC 3 and 4 require management, and it seems reasonable to follow a similar system. The priority of that management depends on the severity of the tree's condition, with trees declining from AHC 2 into AHC 3 requiring work as part of a program of regular works. As the trees decline towards AHC 4, action becomes more urgent to abate any hazard, assuming the tree is in a high-risk area.

<sup>1</sup><https://treecouncil.org.uk/wp-content/uploads/2019/11/Tree-Council-Ash-Dieback-Toolkit-2.0.pdf>

## 4. Arboricultural Impact Assessment (AIA)

### 4.1 Introduction

4.1.1 A BS 5837:2012 Arboricultural Impact Assessment (AIA) has been carried out for all trees included in the survey. The AIA methodology evaluates the potential direct and indirect impacts the proposed development could have on the trees at the site. Where necessary, mitigation measures are recommended.

4.1.2 BS 5837:2012 paragraph 5.4.2 states:

*"The assessment should take account of the effects of any tree loss required to implement the design, and any potentially damaging activities proposed in the vicinity of retained trees. Such activities might include the removal of existing structures and hard surfacing, the installation of new hard surfacing, the installation of services, and the location and dimensions of all proposed excavations or changes in ground level, including any that might arise from the implementation of the recommended mitigation measures. In addition to the impact of the permanent works, account should be taken of the buildability of the scheme in terms of access, adequate working space, and provision for the storage of materials, including topsoil."*

### 4.2 Development Proposals

4.2.1 This AIA is based upon development layout(s) provided by the Client (ref: *Strabag UK Ltd – River\_Hodder Site\_Layout P01* - dated 27th October 2025). An additional review of proposed tree removals was undertaken with the Client in January 2026 in the context of drawing numbers *80061155-ZT-XX-XX-DR-C-00007* & *80061155-ZT-XX-XX-DR-C-00008* (November 2025).

### 4.3 Tree Retention and Removal

4.3.1 The supplied development plans indicate that twenty-two (22) tree entities will require full or partial removal to facilitate the proposals, which include two (2) Category U retention value trees (T56 & T131).

4.3.2 An additional sixteen (16) tree entities have been identified, which may prove to be a constraint on the proposal. A further/final design review is to be undertaken to confirm the status of these trees in conjunction with the appointed Arboricultural Clerk of Works (ACoW). These potential removals have been included in Table 2 in order to better understand the extent of vegetation loss, and subsequent scope of required mitigation.

- 4.3.3 The trees that need to be removed/retained are detailed in the Tree Survey Schedule at Appendix 1 and located on the Tree Impacts Plan at Appendix 3. A summary of the required tree removals is shown in Table 2.

**Table 2: Summary of Required Tree Removals/Retentions**

| Trees to be Removed |                                                          |                                                           | Trees to be Retained |                  |                  |
|---------------------|----------------------------------------------------------|-----------------------------------------------------------|----------------------|------------------|------------------|
| Category A          | Category B                                               | Category C                                                | Category A           | Category B       | Category C       |
| Trees: 0            | Trees:2<br>Potential removal:4**                         | Trees: 12<br>Potential removal: 9**                       | Trees: 11            | Trees: 26        | Trees: 31        |
| Groups: 0           | Groups: 2<br>Partial Removal:1*<br>Potential removal:2** | Groups: 1<br>Partial removal:1*<br>Potential removal: 1** | Groups: 2            | Groups: 13       | Groups: 1        |
| Woodlands: 0        | Woodlands: 0                                             | Woodlands: 0                                              | Woodlands: 1         | Woodlands: 0     | Woodlands: 0     |
| Hedgerows: 0        | Hedgerows:0<br>Partial removal:1*                        | Hedgerows: 0                                              | Hedgerows: 0         | Hedgerows: 4     | Hedgerows: 2     |
| <b>Total: 0</b>     | <b>Total: 12</b>                                         | <b>Total: 24</b>                                          | <b>Total: 14</b>     | <b>Total: 43</b> | <b>Total: 34</b> |

*\*Includes groups and hedgerows that require partial removal/pruning. Remaining sections of these tree entities are to be retained and protected as outlined in the Tree Protection Plan.*

*\*\*The ACoW to advise on potential removals on a case-by-case basis.*

- 4.3.4 The majority of the required removals are associated with the proposed haul/access road installation.
- 4.3.5 The removal of native and established trees will result in a loss of amenity value; suitable mitigation measures, in the form of replanting (with appropriate aftercare periods), must be put in place to offset this loss, and preferably provide canopy and amenity gains post project completion.
- 4.3.6 The planting of diverse tree species that are in keeping with the surrounding landscape character and tolerant of climate change can mitigate for the required removals and, in the longer term, increase the amenity value and ecosystem service benefits that the site's trees provide.



#### **4.4 Tree Pruning**

- 4.4.1 The pruning of trees should only be undertaken where essential, to prevent open wounds that can lead to bacterial or fungal infection. Pruning works should generally be undertaken during the winter months when trees are dormant or during the summer months when the tree is fully active.
- 4.4.2 Any pruning works that are required to facilitate the development are detailed in the Tree Survey Schedule in Appendix 1.
- 4.4.3 Tree pruning/removal should be carried out by a suitably qualified and insured arboricultural contractor and in accordance with the recommendations of BS 3998:2010 Tree work – Recommendations.

#### **4.5 Impacts from Demolition/Construction Operations**

- 4.5.1 Where proposed operations encroach beneath the canopy or into the RPA of retained trees, there is the potential for damage to occur.
- 4.5.2 Strict adherence to the Arboricultural Method Statement (AMS) contained within this report is required. Excavations at the edge of the RPA can often be carried out without significantly impacting trees through the careful pruning of minor roots that become exposed.
- 4.5.3 All works within the RPA or beneath the canopy of retained trees have been detailed as part of the Arboricultural Method Statement at Appendix 3, to ensure that these works are carried out in a manner that eliminates the likelihood of any damage occurring.

#### **4.6 Mitigation and Protection**

- 4.6.1 The retained trees will need to be protected from development operations to ensure that they are not negatively impacted during the development. This has been detailed as part of the Arboricultural Method Statement (AMS) in Appendix 3.
- 4.6.2 Any works that are proposed beneath the canopy or within the RPA of retained trees must be carried out as specified in the AMS. These works will likely need to be supervised by the project arboriculturist so that any tree-related issues that occur can be suitably dealt with.
- 4.6.3 To compensate for potential root damage and stress caused by construction activities, retained trees on-site should be mulched where practicable. The materials that may be used include wood chip, pulverised bark, or leaf mould. The mulched area should extend throughout the open ground within the RPA. The depth of an organic mulch should not be so much as to inhibit aeration of the root system or to cause overheating (Approximately 50 mm to 100 mm).

- 4.6.4 Where the removal of trees is required to facilitate the development, the planting of suitable replacement trees will be required as part of a wider landscaping scheme. It is recommended that tree planting follows a 5 – 10 – 20 - 30 formula (i.e., No more than 5% of any one cultivar, no more than 10% of any one species, no more than 20% of any one genus, and no more than 30% of any one family.) This gives any new tree population maximum resilience against pests and diseases.
- 4.6.5 Tree planting and establishment should be carried out in accordance with BS 8545:2014 *Trees: from nursery to independence in the landscape – Recommendations*.

## 5. References

BS 3998:2010 *Tree work – Recommendations*. ISBN 978 0 580 53777 6

BS 5837:2012 *Trees in relation to design, demolition and construction – Recommendations*. ISBN 978 0 580 69917 7

BS 8545:2014 *Trees: from nursery to independence in the landscape – Recommendations*. ISBN 978 0 580 71317 0

Littlefair P. (2011). *Site layout planning for daylight and sunlight: a guide to good practice* (BR 209). ISBN 978 1 84806 178 1.

Volume 4 National Joint Utilities Group (NJUG) *Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees, Volume 4: Issue 2: 16/11/2007*, [www.njug.org.uk](http://www.njug.org.uk)

# Appendix 1: Tree Survey Schedule

**Table 3: Tree Survey Schedule**

| Key:     | Symbols Used                                                            |            | Age Class                                               |                       | SLE                                                                             |   | Comments                                                                                                                                                                      |   |                               |              | Management                                                                                                                                                                           |                   | Category                                                                                                                                                                                                                               |                                                                                                        |           |                |               |
|----------|-------------------------------------------------------------------------|------------|---------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------|----------------|---------------|
|          | < = less than<br>~ = approximately<br>> = greater than<br># = estimated |            | Young, Semi mature, Early mature, Mature or Over mature |                       | Estimate of Safe Life Expectancy (<10 Years, 10+ Years, 20+ Years or 40+ Years) |   | AGL - Above Ground Level<br>MS - Multi-Stemmed<br>TD - Trunk Division (height in m)<br>DED - Dutch Elm Disease<br>ADB - Ash Die Back<br>AHC (1, 2, 3 or 4) - Ash Health Class |   |                               |              | Tree works that are recommended regardless of future development are in <i>Italics</i><br><br>Tree works that are required to facilitate the proposed development are in <b>Bold</b> |                   | BS 5837:2012 Retention Categories:<br>U - Unsuitable for retention<br>A - High<br>B - Moderate<br>C - Low<br><br>Sub-categories:<br>1 - Mainly arboricultural qualities<br>2 - Mainly landscape qualities<br>3 - Mainly cultural value |                                                                                                        |           |                |               |
| Tree No. | Species                                                                 | Height (m) | No. of Stems                                            | Stem Dia. @ 1.5m (mm) | Crown Spreads (m)                                                               |   |                                                                                                                                                                               |   | Height of Crown Clearance (m) | Age Class    | SLE                                                                                                                                                                                  | Overall Condition | Comments                                                                                                                                                                                                                               | Management                                                                                             | Cate-gory | RPA Radius (m) | RPA Area (m²) |
|          |                                                                         |            |                                                         |                       | N                                                                               | E | S                                                                                                                                                                             | W |                               |              |                                                                                                                                                                                      |                   |                                                                                                                                                                                                                                        |                                                                                                        |           |                |               |
| H001#    | Common hawthorn x100<br>(Crataegus monogyna)                            | 1.5        | 100                                                     | 80                    | 1                                                                               |   |                                                                                                                                                                               |   | 0                             | Early Mature | 20+ Years                                                                                                                                                                            | Good              | Well-maintained field boundary hedgerow adjacent to the road, providing good habitat. Average 3 stems per metre spacing                                                                                                                | Partial removal. Approximately 95 meters of hedge to be removed (see plan)                             | B2        | 0              | 767           |
| G002#    | Common alder x4<br>(Alnus glutinosa)                                    | 15         | 4                                                       | 550, 280, 250, 650#   | See plan                                                                        |   |                                                                                                                                                                               |   | 1                             | Mature       | 20+ Years                                                                                                                                                                            | Fair              | Surveyed from west if the fence line. Overall group with reduced vitality with evidence of historical limb failure. Nice arboricultural features                                                                                       | Remove to facilitate the proposal                                                                      | B1,2      | —              | —             |
| T003#    | Common hawthorn<br>(Crataegus monogyna)                                 | 6          | 3                                                       | 100, 120, 80          | 2                                                                               |   |                                                                                                                                                                               |   | 0.5                           | Early Mature | 20+ Years                                                                                                                                                                            | Good              | Surveyed from land west of the fence. Historically failed at the base and regrown. Windswept form. Good habitat value                                                                                                                  | Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis. | B2        | 2.1            | 14            |
| T004#    | Common alder<br>(Alnus glutinosa)                                       | 9          | 1                                                       | 350#                  | 1                                                                               |   |                                                                                                                                                                               |   | 0.5                           | Mature       | 20+ Years                                                                                                                                                                            | Fair              | Surveyed from land west of the fence. Dysfunctional wood and cavities at the base. Epicormic growth throughout. Historic branch tears. Nice arboricultural features                                                                    | Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis. | B2        | 4.2            | 55            |
| T005#    | Common alder<br>(Alnus glutinosa)                                       | 5          | 1                                                       | 300                   | 1                                                                               |   |                                                                                                                                                                               |   | 0.5                           | Mature       | 20+ Years                                                                                                                                                                            | Fair              | Surveyed from land west of the fence. Dysfunctional wood and cavities at the base. Epicormic growth throughout. Historic branch tears. Nice arboricultural features                                                                    | Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis. | B2        | 3.6            | 41            |

| Tree No. | Species                                                                                          | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class    | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                                       | Management                                                                                                                                 | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|--------------------------------------------------------------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|--------------|-----------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------------------|
|          |                                                                                                  |            |              |                       | N                 | E | S | W |                               |              |           |                   |                                                                                                                                                                                                                                                                |                                                                                                                                            |          |                |                            |
| T006#    | Common ash<br>( <i>Fraxinus excelsior</i> )                                                      | 10         | 1            | 320#                  | 4                 |   |   |   | 2                             | Mature       | <10 years | Fair              | Surveyed from land west of the fence. Single stem to 4m. Epicormic growth throughout the crown<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 2: 25% to 50%                                                                                         | Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis.<br><br><i>Suspected Ash Dieback</i> | C2       | 3.8            | 45                         |
| G007#    | Goat willow x5<br>( <i>Salix caprea</i> )<br>Common hawthorn x6<br>( <i>Crataegus monogyna</i> ) | 7          | 11           | 200                   | See plan          |   |   |   | 0                             | Semi Mature  | 20+ Years | Good              | Surveyed from the land west of the fence. Boundary group adjacent to the stream. Good vitality                                                                                                                                                                 | Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis.                                     | B2       | —              | —                          |
| T008#    | Common alder<br>( <i>Alnus glutinosa</i> )                                                       | 13         | 2            | 520, 320              | 4                 |   |   |   | 0.5                           | Mature       | 20+ Years | Good              | Surveyed from land west of the fence. Basal epicormic growth. Historic branch tears. Good form with nice arboricultural features                                                                                                                               | Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis.                                     | B1,2     | 7.3            | 167                        |
| T009#    | Common ash<br>( <i>Fraxinus excelsior</i> )                                                      | 13         | 1            | 600#                  | 4                 |   |   |   | 0.5                           | Mature       | <10 years | Poor              | Surveyed from land west of the fence. Western buttress roots decayed resulting in basal cavity and internal hollowing. Potential to fail in easterly direction. Crown vitality reduced.<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 1: 0% to 25% | Remove to facilitate the proposal                                                                                                          | C2       | 7.2            | 163                        |
| T010#    | Common alder<br>( <i>Alnus glutinosa</i> )                                                       | 13         | 3            | 450, 400, 450#        | 5                 |   |   |   | 0.5                           | Mature       | 20+ Years | Good              | Surveyed from land SW of the fence. 3 stemmed from the base with acute union. No sign of it included bark. Crown with good form and good vitality                                                                                                              | Remove to facilitate the proposal                                                                                                          | B1,2     | 9              | 254                        |
| G011#    | Common hawthorn x30<br>( <i>Crataegus monogyna</i> )                                             | 6          | 30           | 80                    | See plan          |   |   |   | 0                             | Early Mature | 20+ Years | Good              | Tree group adjacent to the stream marking field boundary. Good vitality and high habitat value                                                                                                                                                                 | Remove to facilitate the proposal                                                                                                          | B2,3     | —              | —                          |
| T012#    | Common alder<br>( <i>Alnus glutinosa</i> )                                                       | 8          | 2            | 380                   | 4                 |   |   |   | 0.5                           | Mature       | 20+ Years | Good              | Surveyed from land west of the fence. Basal epicormic growth. Basal swelling may indicate internal decay. Good form with nice arboricultural features                                                                                                          | Retain and Protect as per TPP/AMS                                                                                                          | B1,2     | 6.4            | 129                        |

| Tree No. | Species                                       | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class    | SLE       | Overall Condition | Comments                                                                                                                                                                                           | Management                        | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|-----------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|--------------|-----------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------|----------------|----------------------------|
|          |                                               |            |              |                       | N                 | E | S | W |                               |              |           |                   |                                                                                                                                                                                                    |                                   |          |                |                            |
| T013#    | Goat willow ( <i>Salix caprea</i> )           | 8          | 9            | 180                   | 5                 |   |   |   | 0                             | Early Mature | 20+ Years | Good              | Survey from the land west of the fence. Historically failed to the east over the stream and subsequently regrown. Good vitality                                                                    | Retain and Protect as per TPP/AMS | B2       | 6.5            | 133                        |
| T014#    | Common alder ( <i>Alnus glutinosa</i> )       | 14         | 2            | 500, 650              | 8                 |   |   |   | 0.5                           | Mature       | 20+ Years | Good              | Surveyed from land west of the fence. Twin stem from the 500mm. Basal swelling may indicate internal decay. Good form with nice arboricultural features                                            | Retain and Protect as per TPP/AMS | B1,2     | 9.8            | 302                        |
| T015#    | Common hawthorn ( <i>Crataegus monogyna</i> ) | 6          | 1            | 180                   | 1                 |   |   |   | 0.5                           | Mature       | 20+ Years | Good              | Field boundary tree with dysfunctional wood and cavities at the base typical of tree species and age. Windswept form. Good vitality                                                                | Retain and Protect as per TPP/AMS | B2       | 2.2            | 15                         |
| G016#    | Common alder x2 ( <i>Alnus glutinosa</i> )    | 11         | 2            | 400, 400              | See plan          |   |   |   | 1                             | Mature       | 10+ Years | Fair              | Adjacent to the river. Basal epicormic growth. Basal swelling. Crown vitality reduced with deadwood at extremities                                                                                 | Retain and Protect as per TPP/AMS | C2       | —              | —                          |
| T017#    | Common alder ( <i>Alnus glutinosa</i> )       | 14         | 2            | 500, 650              | 8                 |   |   |   | 0.5                           | Mature       | 20+ Years | Good              | Surveyed from land west of the fence. Twin stem from the 500mm with acute union. No sign of included bark. Basal swelling may indicate internal decay. Good form with nice arboricultural features | Retain and Protect as per TPP/AMS | B1,2     | 9.8            | 302                        |
| G018#    | Common alder x6 ( <i>Alnus glutinosa</i> )    | 13         | 6            | 300                   | See plan          |   |   |   | 0.5                           | Early Mature | 20+ Years | Good              | Group adjacent to the stream. Group displaying similar features such as cavities and branch tears. Nice arboricultural features                                                                    | Retain and Protect as per TPP/AMS | B1,2     | —              | —                          |
| T019#    | Sycamore ( <i>Acer pseudoplatanus</i> )       | 12         | 1            | 470                   | 2                 |   |   |   | 1                             | Dead         | Dead      | Dead              | Dead                                                                                                                                                                                               | Retain and Protect as per TPP/AMS | U        | 5.6            | 99                         |



| Tree No. | Species                                                                                                                                                                   | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class    | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                                               | Management                                                                                                                      | Category | RPA Radius (m) | RPA Area (m²) |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|--------------|-----------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------|----------------|---------------|
|          |                                                                                                                                                                           |            |              |                       | N                 | E | S | W |                               |              |           |                   |                                                                                                                                                                                                                                                                        |                                                                                                                                 |          |                |               |
| G020#    | Common hawthorn x4<br>( <i>Crataegus monogyna</i> )<br>Common alder x16<br>( <i>Alnus glutinosa</i> )                                                                     | 14         | 20           | 300                   | See plan          |   |   |   | 0                             | Early Mature | 20+ Years | Good              | Group behind fence and on the riverbank. Alder multi-stemmed from the base with some epicormic growth. Hawthorn understory                                                                                                                                             | Retain and Protect as per TPP/AMS                                                                                               | B2       | –              | –             |
| W021#    | Common ash ( <i>Fraxinus excelsior</i> )<br>Sycamore ( <i>Acer pseudoplatanus</i> )<br>European larch ( <i>Larix decidua</i> )<br>Common alder ( <i>Alnus glutinosa</i> ) | 20         | 1            | 500                   | 4                 |   |   |   | 2                             | Mature       | 40+ Years | Good              | Mature unmanaged woodland south of the fence to the river. Standing and ground deadwood. Dominated by mature sycamore with good form and vitality. Alder predominantly along rivers edge. Hawthorne and elder understory with semi mature sycamore as successor trees. | Retain - Suspected Ash Dieback                                                                                                  | A1,2,3   | 0              | 585           |
| T022#    | Common ash ( <i>Fraxinus excelsior</i> )                                                                                                                                  | 10         | 2            | 280, 150              | 4                 |   |   |   | 2                             | Semi Mature  | <10 years | Poor              | Surveyed from the road. Twin stem at 500mm with tensile union. Epicormic growth throughout the canopy with crown die back<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 2: 25% to 50%                                                                      | Retain - No dig methodology when upgrading hard surfaces within the RPA. See Figure 25991-3-ARB-09<br><br>Suspected Ash Dieback | C2       | 3.8            | 45            |
| T023#    | Common ash ( <i>Fraxinus excelsior</i> )                                                                                                                                  | 8          | 1            | 130                   | 2                 |   |   |   | 2                             | Semi Mature  | <10 years | Poor              | Surveyed from the road. Matured from hedgerow. Epicormic growth throughout the canopy with crown die back<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 2: 25% to 50%                                                                                      | Remove to facilitate the proposal<br><br>Suspected Ash Dieback                                                                  | C2       | 1.6            | 8             |
| T024#    | Common ash ( <i>Fraxinus excelsior</i> )                                                                                                                                  | 4          | 1            | 130                   | 2                 |   |   |   | 2                             | Semi Mature  | <10 years | Poor              | Surveyed from the road. Matured from hedgerow. Epicormic growth throughout the canopy with crown die back<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 3: 50% to 75%                                                                                      | Remove to facilitate the proposal<br><br>Suspected Ash Dieback                                                                  | C2       | 1.6            | 8             |

| Tree No. | Species                                  | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class   | SLE       | Overall Condition | Comments                                                                                                                                                                          | Management                                                                   | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|-------------|-----------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------|----------------|----------------------------|
|          |                                          |            |              |                       | N                 | E | S | W |                               |             |           |                   |                                                                                                                                                                                   |                                                                              |          |                |                            |
| T025#    | Common ash ( <i>Fraxinus excelsior</i> ) | 8          | 1            | 130                   | 2                 |   |   |   | 2                             | Semi Mature | <10 years | Poor              | Surveyed from the road. Matured from hedgerow. Epicormic growth throughout the canopy with crown die back<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 2: 25% to 50% | <b>Remove to facilitate the proposal</b><br><br><i>Suspected Ash Dieback</i> | C2       | 1.6            | 8                          |
| T026#    | Common ash ( <i>Fraxinus excelsior</i> ) | 8          | 1            | 150                   | 2                 |   |   |   | 2                             | Semi Mature | <10 years | Poor              | Surveyed from the road. Matured from hedgerow. Epicormic growth throughout the canopy with crown die back<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 2: 25% to 50% | <b>Remove to facilitate the proposal</b><br><br><i>Suspected Ash Dieback</i> | C2       | 1.8            | 10                         |
| T027#    | Common ash ( <i>Fraxinus excelsior</i> ) | 5          | 1            | 110                   | 1                 |   |   |   | 1                             | Semi Mature | <10 years | Poor              | Surveyed from the road. Matured from hedgerow. Epicormic growth throughout the canopy with crown die back<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 3: 50% to 75% | <b>Remove to facilitate the proposal</b><br><br><i>Suspected Ash Dieback</i> | C2       | 1.3            | 5                          |
| T028#    | Common ash ( <i>Fraxinus excelsior</i> ) | 5          | 1            | 100                   | 1                 |   |   |   | 1                             | Semi Mature | <10 years | Poor              | Surveyed from the road. Matured from hedgerow. Epicormic growth throughout the canopy with crown die back<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 3: 50% to 75% | <b>Remove to facilitate the proposal</b><br><br><i>Suspected Ash Dieback</i> | C2       | 1.2            | 5                          |
| T029#    | Lime ( <i>Tilia sp.</i> )                | 7          | 1            | 290                   | 2                 |   |   |   | 1                             | Semi Mature | 20+ Years | Fair              | Surveyed from the road. Matured from hedgerow. Acute unions throughout typical of species. Pruned on western aspect as part of maintenance                                        | <b>Remove to facilitate the proposal</b>                                     | C2       | 3.5            | 38                         |
| T030#    | Common ash ( <i>Fraxinus excelsior</i> ) | 5          | 1            | 100                   | 1                 |   |   |   | 1                             | Semi Mature | <10 years | Poor              | Surveyed from the road. Matured from hedgerow. Epicormic growth throughout the canopy with crown die back<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 3: 50% to 75% | <b>Retain - Suspected Ash Dieback</b>                                        | C2       | 1.2            | 5                          |

| Tree No. | Species                                       | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class    | SLE       | Overall Condition | Comments                                                                                                                                                                                     | Management                        | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|-----------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|--------------|-----------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------|----------------|----------------------------|
|          |                                               |            |              |                       | N                 | E | S | W |                               |              |           |                   |                                                                                                                                                                                              |                                   |          |                |                            |
| T031#    | Lime ( <i>Tilia sp.</i> )                     | 7          | 2            | 120, 120              | 2                 |   |   |   | 1                             | Semi Mature  | 20+ Years | Fair              | Surveyed from the road. Matured from hedgerow. Acute unions throughout typical of species. Pruned on western aspect as part of maintenance                                                   | Retain and Protect as per TPP/AMS | C2       | 2              | 13                         |
| T032#    | Sycamore ( <i>Acer pseudoplatanus</i> )       | 7          | 3            | 80, 110, 100          | 1.5               |   |   |   | 1                             | Semi Mature  | 20+ Years | Fair              | Matured from hedgerow. Multi-stemmed from the base with acute unions. Epicormic growth throughout the crown                                                                                  | Retain and Protect as per TPP/AMS | C2       | 2              | 13                         |
| T033#    | Common ash ( <i>Fraxinus excelsior</i> )      | 8          | 1            | 160                   | 1.5               |   |   |   | 1                             | Semi Mature  | <10 years | Poor              | Surveyed from the road. Matured from hedgerow. Epicormic growth throughout the canopy with crown die back<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 2: 25% to 50%            | Retain - Suspected Ash Dieback    | C2       | 1.9            | 11                         |
| T034#    | Lime ( <i>Tilia sp.</i> )                     | 5          | 2            | 80, 80                | 1                 |   |   |   | 1                             | Semi Mature  | 20+ Years | Fair              | Surveyed from the road. Matured from hedgerow. Acute unions throughout typical of species. Pruned on western aspect as part of maintenance                                                   | Retain and Protect as per TPP/AMS | C2       | 1.4            | 6                          |
| T035#    | Common ash ( <i>Fraxinus excelsior</i> )      | 5          | 1            | 80                    | 1                 |   |   |   | 1                             | Semi Mature  | <10 years | Poor              | Surveyed from the road. Matured from hedgerow. Epicormic growth throughout the canopy with crown die back<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 3: 50% to 75%            | Retain - Suspected Ash Dieback    | C2       | 1              | 3                          |
| T036#    | Common ash ( <i>Fraxinus excelsior</i> )      | 7          | 1            | 140                   | 1.5               |   |   |   | 1                             | Semi Mature  | <10 years | Poor              | Surveyed from the road. Matured from hedgerow. Epicormic growth throughout the canopy with crown die back<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 2: 25% to 50%            | Retain - Suspected Ash Dieback    | C2       | 1.7            | 9                          |
| H037#    | Common hawthorn ( <i>Crataegus monogyna</i> ) | 1          | 1            | 80                    | 1                 |   |   |   | 0                             | Early Mature | 20+ Years | Good              | Well maintained boundary hedgerow with individual maturing species individually recorded                                                                                                     | Retain and Protect as per TPP/AMS | B2       | 0              | 692                        |
| T038#    | Common ash ( <i>Fraxinus excelsior</i> )      | 8          | 1            | 160                   | 1.5               |   |   |   | 1                             | Semi Mature  | <10 years | Poor              | Within tree fencing to prevent livestock from damaging the tree. Epicormic growth throughout with extensive dieback.<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 2: 25% to 50% | Retain - Suspected Ash Dieback    | C2       | 1.9            | 11                         |

| Tree No. | Species                                                                                                                              | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class    | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Management                        | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|--------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|--------------|-----------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------|----------------|----------------------------|
|          |                                                                                                                                      |            |              |                       | N                 | E | S | W |                               |              |           |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |          |                |                            |
| T039#    | Common beech ( <i>Fagus sylvatica</i> )                                                                                              | 8          | 1            | 180                   | 2.5               |   |   |   | 1                             | Semi Mature  | 40+ Years | Good              | Within tree fencing to prevent livestock from damaging the tree has failed. Good form with good future prospects. Crown within 1m of building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Retain and Protect as per TPP/AMS | B2       | 2.2            | 15                         |
| T040#    | Common ash ( <i>Fraxinus excelsior</i> )                                                                                             | 8          | 1            | 200                   | 1.5               |   |   |   | 1                             | Semi Mature  | <10 years | Poor              | Within tree fencing to prevent livestock from damaging the tree. Epicormic growth throughout with extensive dieback.<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 3: 50% to 75%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Retain - Suspected Ash Dieback    | C2       | 2.4            | 18                         |
| T041#    | Common beech ( <i>Fagus sylvatica</i> )                                                                                              | 8          | 1            | 120                   | 1                 |   |   |   | 1                             | Semi Mature  | 40+ Years | Good              | Within tree fencing to prevent livestock from damaging the tree has failed. Good form with good future prospects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Retain and Protect as per TPP/AMS | B2       | 1.4            | 6                          |
| T042#    | Common ash ( <i>Fraxinus excelsior</i> )                                                                                             | 8          | 1            | 100                   | 1.5               |   |   |   | 1                             | Semi Mature  | <10 years | Poor              | Within tree fencing to prevent livestock from damaging the tree. Epicormic growth throughout with dieback.<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 2: 25% to 50%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Retain - Suspected Ash Dieback    | C2       | 0.1            | 0                          |
| G043#    | Common alder ( <i>Alnus glutinosa</i> )<br>Common hawthorn ( <i>Crataegus monogyna</i> )<br>Common ash ( <i>Fraxinus excelsior</i> ) | 15         | 1            | 300                   | See plan          |   |   |   | 2                             | Early Mature | 20+ Years | Good              | Riverbank group south of the fence line is inaccessible. Mature ash along the northern fence line with reduced vitality and epicormic growth characteristics of ADB infection. Mature and semi-mature alder and sycamore with hawthorn understory down the embankment towards the river. Unmanaged herb layer. Visible canopies down the river embankment with good vitality. Good habitat value.<br><br>The field to the north was out of bounds during the survey due to restricted access. A 15m buffer can be applied to protect the group. If there are any potential impacts, a revisit of this area can be arranged to collect more accurate data on individual trees | Retain and Protect as per TPP/AMS | B2       | —              | —                          |

| Tree No. | Species                                                                                                                                                                | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class    | SLE       | Overall Condition | Comments                                                                                                                                                                                  | Management                                                                                                                          | Category | RPA Radius (m) | RPA Area (m²) |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|--------------|-----------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|---------------|
|          |                                                                                                                                                                        |            |              |                       | N                 | E | S | W |                               |              |           |                   |                                                                                                                                                                                           |                                                                                                                                     |          |                |               |
| T044#    | Common hawthorn ( <i>Crataegus monogyna</i> )                                                                                                                          | 5          | 2            | 100, 100              | 2                 |   |   |   | 0.5                           | Mature       | 20+ Years | Good              | Field boundary tree with dysfunctional wood and cavities typical of tree species and age. Good vitality                                                                                   | Retain and Protect as per TPP/AMS                                                                                                   | C2       | 1.7            | 9             |
| T045#    | Common alder ( <i>Alnus glutinosa</i> )                                                                                                                                | 8          | 3            | 200, 150, 150         | 4                 |   |   |   | 1                             | Early Mature | 20+ Years | Good              | Established in river bank. Base of the stem is submerged. Good vitality                                                                                                                   | Retain and Protect as per TPP/AMS                                                                                                   | B2       | 3.5            | 38            |
| G046#    | Hazel x2 ( <i>Corylus avellana</i> )<br>Common hawthorn x5 ( <i>Crataegus monogyna</i> )<br>Common alder x4 ( <i>Alnus glutinosa</i> )<br>Prunus ( <i>Prunus sp.</i> ) | 6          | 11           | 100                   | See plan          |   |   |   | 0                             | Semi Mature  | 20+ Years | Good              | Field boundary group along embankment. Partially failed vitality remains good.                                                                                                            | Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis.<br><br>Suspected Ash Dieback | B2       | —              | —             |
| T047#    | Common ash ( <i>Fraxinus excelsior</i> )                                                                                                                               | 16         | 1            | 450#                  | 8                 |   |   |   | 2                             | Mature       | <10 years | Fair              | Surveyed from the south. Ivy clad stem into upper canopy. Vitality looks reduced. Historic limb failure<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 2: 25% to 50%           | Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis.<br><br>Suspected Ash Dieback | C2       | 5.4            | 92            |
| T048#    | Common ash ( <i>Fraxinus excelsior</i> )                                                                                                                               | 16         | 1            | 550                   | 8                 |   |   |   | 2                             | Mature       | <10 years | Poor              | Surveyed from the south. Part of linear group along boundary edge. Vitality heavily reduced historic branch loss.<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 3: 50% to 75% | Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis.<br><br>Suspected Ash Dieback | C2       | 6.6            | 137           |
| T049#    | Common ash ( <i>Fraxinus excelsior</i> )                                                                                                                               | 16         | 1            | 550                   | 0                 |   |   |   | 2                             | Mature       | <10 years | Poor              | Surveyed from the south. Part of linear group along boundary edge. Vitality heavily reduced historic branch loss.<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 3: 50% to 75% | Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis.<br><br>Suspected Ash Dieback | C2       | 6.6            | 137           |

| Tree No. | Species                                  | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                                                                      | Management                                                                                                                                        | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|-----------|-----------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------------------|
|          |                                          |            |              |                       | N                 | E | S | W |                               |           |           |                   |                                                                                                                                                                                                                                                                                               |                                                                                                                                                   |          |                |                            |
| T050#    | Common ash ( <i>Fraxinus excelsior</i> ) | 16         | 1            | 600                   | 8                 |   |   |   | 2                             | Mature    | <10 years | Poor              | Surveyed from the south. Ivy clad. Part of linear group along boundary edge. Epicormic growth throughout the crown. Vitality heavily reduced. Historic branch loss.<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 3: 50% to 75%                                                   | <b>Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis.</b><br><br><i>Suspected Ash Dieback</i> | C2       | 7.2            | 163                        |
| T051#    | Common ash ( <i>Fraxinus excelsior</i> ) | 16         | 1            | 600                   | 6                 |   |   |   | 2                             | Mature    | <10 years | Poor              | Surveyed from the south. Aerial roots. Part of a linear group along the boundary edge. Epicormic growth in the lower crown. Vitality is heavily reduced. Historic branch loss. Large-diameter deadwood is almost dead<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 3: 50% to 75% | <b>Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis.</b><br><br><i>Suspected Ash Dieback</i> | C2       | 7.2            | 163                        |
| T052#    | Common ash ( <i>Fraxinus excelsior</i> ) | 16         | 1            | 600                   | 6                 |   |   |   | 2                             | Mature    | <10 years | Poor              | Surveyed from the south. Aerial roots. Part of linear group along boundary edge. Epicormic growth in lower crown. Vitality heavily reduced. Historic branch loss. Large diameter deadwood almost dead<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 3: 50% to 75%                 | <b>Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis.</b><br><br><i>Suspected Ash Dieback</i> | C2       | 7.2            | 163                        |
| T053#    | Common ash ( <i>Fraxinus excelsior</i> ) | 20         | 1            | 1000#                 | 8                 |   |   |   | 2                             | Mature    | <10 years | Poor              | Surveyed from the south. Aerial roots. Part of linear group along boundary edge. Epicormic growth in lower crown. Vitality heavily reduced. Historic branch loss.<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 2: 25% to 50%                                                     | <b>Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis.</b><br><br><i>Suspected Ash Dieback</i> | C2       | 12             | 452                        |
| T054#    | Common ash ( <i>Fraxinus excelsior</i> ) | 20#        | 1            | 750                   | 8                 |   |   |   | 2                             | Mature    | <10 years | Poor              | Surveyed from the south. Aerial roots. Part of linear group along boundary edge. Epicormic growth in lower crown. Vitality heavily reduced. Historic branch loss.<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 2: 25% to 50%                                                     | <b>Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis.</b><br><br><i>Suspected Ash Dieback</i> | C2       | 9              | 254                        |



| Tree No. | Species                                        | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                   | Management                                                                                                                                                                   | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|------------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|-----------|-----------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------------------|
|          |                                                |            |              |                       | N                 | E | S | W |                               |           |           |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                              |          |                |                            |
| G055#    | Common ash x2<br>( <i>Fraxinus excelsior</i> ) | 18#        | 2            | 800, 800              | See plan          |   |   |   | 1                             | Mature    | <10 years | Poor              | <p>Surveyed from the south. Aerial roots. Part of linear group along boundary edge. Epicormic growth throughout the crown. Vitality heavily reduced. Historic branch loss</p> <p>Pests and Diseases:<br/>Ash Dieback Infection Level 2: 25% to 50%</p>                                                                                                                                                                                     | <p><b>Potential removal - The Arboricultural Clerk of Works will determine removals on a case-by-case basis.</b></p> <p><i>Suspected Ash Dieback</i></p>                     | C2       | –              | –                          |
| T056#    | Common ash<br>( <i>Fraxinus excelsior</i> )    | 16         | 1            | 900#                  | 6                 |   |   |   | 2                             | Dead      | Dead      | Dead              | <p>Part of a linear group. Standing deadwood</p> <p>Fungus:<br/>Daldinia concentrica (King Alfreds Cakes)<br/>Inonotus hispidus (Shaggy Polypore)</p> <p>Pests and Diseases:<br/>Ash Dieback Infection Level 2: 25% to 50%</p>                                                                                                                                                                                                             | <p><b>Remove to facilitate the proposal. (Unsuitable to retain because the tree will be exposed to new wind loads with the potential to fail onto the proposed road)</b></p> | U        | 10.8           | 366                        |
| T057#    | Common ash<br>( <i>Fraxinus excelsior</i> )    | 16         | 1            | 450                   | 6                 |   |   |   | 2                             | Mature    | <10 years | Poor              | <p>Surveyed from the south. Aerial roots. Part of linear group along boundary edge. Epicormic growth in lower crown. Vitality heavily reduced. Historic branch loss. Large diameter deadwood almost dead</p> <p>Pests and Diseases:<br/>Ash Dieback Infection Level 3: 50% to 75%</p>                                                                                                                                                      | <p><b>Remove to facilitate the proposal. (Unsuitable to retain because the tree will be exposed to new wind loads with the potential to fail onto the proposed road)</b></p> | C2       | 5.4            | 92                         |
| G058#    | Common ash x2<br>( <i>Fraxinus excelsior</i> ) | 20#        | 2            | 1000, 800             | See plan          |   |   |   | 1                             | Mature    | <10 years | Poor              | <p>Surveyed from the south. Aerial roots. Inonotus fb around the base and internally. Hollowing evident from underneath. Part of linear group along boundary edge. Epicormic growth throughout the crown. Vitality heavily reduced. Historic branch loss</p> <p>Fungus:<br/>Daldinia concentrica (King Alfreds Cakes)<br/>Inonotus hispidus (Shaggy Polypore)</p> <p>Pests and Diseases:<br/>Ash Dieback Infection Level 2: 25% to 50%</p> | <p><b>Remove to facilitate the proposal. (Complete crown removal to retain standing deadwood if practical)</b></p>                                                           | C2       | –              | –                          |

| Tree No. | Species                                  | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                                                                                          | Management                                    | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|-----------|-----------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------|----------------|----------------------------|
|          |                                          |            |              |                       | N                 | E | S | W |                               |           |           |                   |                                                                                                                                                                                                                                                                                                                   |                                               |          |                |                            |
| T059#    | Common ash ( <i>Fraxinus excelsior</i> ) | 18#        | 1            | 900#                  | 7                 |   |   |   | 2                             | Mature    | <10 years | Poor              | Surveyed from the south. Aerial roots. Part of linear group along boundary edge. Epicormic growth throughout the crown. Vitality heavily reduced. Historic large limb tear. Large diameter deadwood.<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 2: 25% to 50%                                      | <b>Retain - Suspected Ash Dieback</b>         | C2       | 10.8           | 366                        |
| T060#    | Common ash ( <i>Fraxinus excelsior</i> ) | 17         | 1            | 550#                  | 6                 |   |   |   | 2                             | Mature    | <10 years | Poor              | Surveyed from the south. Aerial roots. Part of linear group along boundary edge. Epicormic growth in lower crown. Vitality heavily reduced. Historic branch loss. Large diameter deadwood. Tree appears almost dead<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 3: 50% to 75%                       | <b>Retain as habitat - prune to make safe</b> | C2       | 6.6            | 137                        |
| T061#    | Common ash ( <i>Fraxinus excelsior</i> ) | 14         | 1            | 400                   | 2                 |   |   |   | 2                             | Mature    | <10 years | Poor              | Surveyed from the south. Aerial roots. Part of linear group along boundary edge. Epicormic growth in lower crown. Vitality heavily reduced. Historic branch loss. Large diameter deadwood. Tree appears almost dead<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 3: 50% to 75%                       | <b>Retain as habitat - prune to make safe</b> | C2       | 4.8            | 72                         |
| T062#    | Common ash ( <i>Fraxinus excelsior</i> ) | 14         | 1            | 400                   | 6                 |   |   |   | 2                             | Mature    | <10 years | Poor              | Surveyed from the south. Aerial roots. Part of linear group along boundary edge. Hollowing stem. Epicormic growth throughout the crown. Vitality heavily reduced. Historic branch loss. Large diameter deadwood. Tree appears almost dead<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 3: 50% to 75% | <b>Retain as habitat - prune to make safe</b> | C2       | 4.8            | 72                         |
| T063#    | Common ash ( <i>Fraxinus excelsior</i> ) | 18#        | 1            | 1000#                 | 8                 |   |   |   | 2                             | Mature    | <10 years | Poor              | Surveyed from the south. Aerial roots. Part of linear group along boundary edge. Epicormic growth in lower crown. Hollowing at the base. Vitality heavily reduced. Historic branch loss. Crown is dying back<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 2: 25% to 50%                              | <b>Retain as habitat - prune to make safe</b> | C2       | 12             | 452                        |



| Tree No. | Species                                             | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class    | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                 | Management                        | Category | RPA Radius (m) | RPA Area (m²) |
|----------|-----------------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|--------------|-----------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------|----------------|---------------|
|          |                                                     |            |              |                       | N                 | E | S | W |                               |              |           |                   |                                                                                                                                                                                                                                          |                                   |          |                |               |
| G064#    | Common hawthorn x3<br>( <i>Crataegus monogyna</i> ) | 5          | 3            | 180                   | See plan          |   |   |   | 0.5                           | Early Mature | 20+ Years | Good              | Trees along boundary. Good vitality good habitat value                                                                                                                                                                                   | Retain and Protect as per TPP/AMS | B2       | —              | —             |
| G065#    | Common hawthorn x3<br>( <i>Crataegus monogyna</i> ) | 5          | 3            | 220                   | See plan          |   |   |   | 0.5                           | Early Mature | 20+ Years | Good              | Trees along boundary. Dysfunctional wood around the base. Good vitality good habitat value                                                                                                                                               | Retain and Protect as per TPP/AMS | B2       | —              | —             |
| T066#    | Common ash<br>( <i>Fraxinus excelsior</i> )         | 22         | 1            | 1430                  | 10                |   |   |   | 0                             | Over Mature  | 20+ Years | Good              | Large diameter stem in field corner. Twin stem at 2m. Recent limb loss with historic limb loss. Nice arboricultural features<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 1: 0% to 25%                                      | Retain - Suspected Ash Dieback    | B1,2     | 15             | 707           |
| T067#    | Common ash<br>( <i>Fraxinus excelsior</i> )         | 7          | 1            | 350                   | 1                 |   |   |   | 1                             | Early Mature | <10 years | Poor              | Field boundary tree. Top of crown has failed. Epicormic growth on remaining stem<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 1: 0% to 25%                                                                                  | Retain - Suspected Ash Dieback    | C2       | 4.2            | 55            |
| T068#    | Common ash<br>( <i>Fraxinus excelsior</i> )         | 20#        | 1            | 1000#                 | 10                |   |   |   | 0                             | Over Mature  | 20+ Years | Good              | Surveyed from the land to the south. Large diameter stem in field corner. Twin stem at 6m. Recent limb loss with historic limb loss. Nice arboricultural features<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 1: 0% to 25% | Retain - Suspected Ash Dieback    | B1,2     | 12             | 452           |

| Tree No. | Species                                                                              | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class    | SLE       | Overall Condition | Comments                                                                                                                                                                                                               | Management                        | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|--------------------------------------------------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|--------------|-----------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------|----------------|----------------------------|
|          |                                                                                      |            |              |                       | N                 | E | S | W |                               |              |           |                   |                                                                                                                                                                                                                        |                                   |          |                |                            |
| T069#    | Common ash ( <i>Fraxinus excelsior</i> )                                             | 20#        | 1            | 900#                  | 10                |   |   |   | 0                             | Over Mature  | 20+ Years | Good              | Surveyed from the land to the south. Large diameter stem in field corner. Twin stem at 4m with historic stem loss. Nice arboricultural features<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 1: 0% to 25% | Retain - Suspected Ash Dieback    | B1,2     | 10.8           | 366                        |
| G070#    | Apple x100 ( <i>Malus sp.</i> )<br>Common hawthorn x2 ( <i>Crataegus monogyna</i> )  | 6          | 102          | 80                    | See plan          |   |   |   | 0                             | Semi Mature  | 20+ Years | Good              | Planted between boundary fence lines. Well established good vitality                                                                                                                                                   | Retain and Protect as per TPP/AMS | B2       | —              | —                          |
| T071#    | Silver birch ( <i>Betula pendula</i> )                                               | 15         | 1            | 650#                  | 8                 |   |   |   | 1                             | Over Mature  | 20+ Years | Good              | Aireal roots. Hollowing from the base. Epicormic growth on main stem. Main leader has failed. Nice arboricultural features                                                                                             | Retain and Protect as per TPP/AMS | B1,2     | 7.8            | 191                        |
| T072#    | Goat willow ( <i>Salix caprea</i> )                                                  | 12         | 2            | 350, 280              | 4                 |   |   |   | 0.5                           | Mature       | 20+ Years | Good              | Codominant stem with acute union. Nice form good vitality                                                                                                                                                              | Retain and Protect as per TPP/AMS | B1,2     | 5.4            | 92                         |
| G073#    | Common hawthorn ( <i>Crataegus monogyna</i> )<br>Goat willow ( <i>Salix caprea</i> ) | 6          | 1            | 240#                  | See plan          |   |   |   | 0                             | Early Mature | 20+ Years | Good              | Hawthorn has previously been laid no lapsed. Evidence of planting to increase density. Mature species of willow and thorn in the west.                                                                                 | Retain and Protect as per TPP/AMS | B2       | —              | —                          |
| T074#    | Common hawthorn ( <i>Crataegus monogyna</i> )                                        | 2          | 1            | 80                    | 2                 |   |   |   | 0                             | Early Mature | 10+ Years | Fair              | Established on stream bank as field marker. Failed and regrown                                                                                                                                                         | Retain and Protect as per TPP/AMS | C2       | 1              | 3                          |
| T075#    | Common hawthorn ( <i>Crataegus monogyna</i> )                                        | 4          | 2            | 80, 110               | 2                 |   |   |   | 0                             | Early Mature | 20+ Years | Fair              | Established on stream bank as field marker. Good vitality good habitat                                                                                                                                                 | Retain and Protect as per TPP/AMS | B2       | 1.6            | 8                          |

| Tree No. | Species                                             | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class    | SLE       | Overall Condition | Comments                                                                                                                                                                                           | Management                                                                                         | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|-----------------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|--------------|-----------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------|----------------|----------------------------|
|          |                                                     |            |              |                       | N                 | E | S | W |                               |              |           |                   |                                                                                                                                                                                                    |                                                                                                    |          |                |                            |
| T076#    | Common hawthorn<br>( <i>Crataegus monogyna</i> )    | 4          | 2            | 80, 110               | 2                 |   |   |   | 0                             | Early Mature | 20+ Years | Fair              | Established on stream bank as field marker. Good vitality good habitat                                                                                                                             | Retain and Protect as per TPP/AMS                                                                  | B2       | 1.6            | 8                          |
| G077#    | Common hawthorn x2<br>( <i>Crataegus monogyna</i> ) | 6          | 2            | 220                   | See plan          |   |   |   | 0                             | Early Mature | 20+ Years | Good              | Field boundary tree group. Good vitality with good form and high habitat value                                                                                                                     | Retain and Protect as per TPP/AMS                                                                  | B1,2     | –              | –                          |
| G078#    | Common hawthorn x2<br>( <i>Crataegus monogyna</i> ) | 8          | 2            | 350                   | See plan          |   |   |   | 0                             | Early Mature | 20+ Years | Good              | Field boundary tree group. Good vitality with good form and high habitat value                                                                                                                     | Retain and Protect as per TPP/AMS                                                                  | B1,2     | –              | –                          |
| T079#    | Common hawthorn<br>( <i>Crataegus monogyna</i> )    | 8          | 2            | 220, 220              | 3                 |   |   |   | 1                             | Mature       | 20+ Years | Good              | Field boundary tree. Dysfunctional wood on the main stem and minor deadwood throughout the crown all online with species and age. Good habitat value                                               | Retain and Protect as per TPP/AMS                                                                  | B2       | 3.7            | 43                         |
| T080#    | Common hawthorn<br>( <i>Crataegus monogyna</i> )    | 8          | 2            | 280                   | 3                 |   |   |   | 1                             | Mature       | 20+ Years | Good              | Field boundary tree. Dysfunctional wood on the main stem and minor deadwood throughout the crown all online with species and age. Good form good habitat value                                     | Retain and Protect as per TPP/AMS                                                                  | B2       | 4.8            | 72                         |
| T081#    | Common hawthorn<br>( <i>Crataegus monogyna</i> )    | 6          | 2            | 240                   | 2                 |   |   |   | 1                             | Mature       | 20+ Years | Good              | Field boundary tree. Dysfunctional wood on the main stem and minor deadwood throughout the crown all online with species and age. Suppressed from due to neighbouring sycamore. Good habitat value | Retain and Protect as per TPP/AMS                                                                  | B2       | 4.1            | 53                         |
| T082#    | Sycamore<br>( <i>Acer pseudoplatanus</i> )          | 16         | 1            | 960                   | 8                 |   |   |   | 2.5                           | Mature       | 40+ Years | Good              | Field boundary tree part of linear group. Large buttressing roots. Twin stem at 2m tensile union. Good form.                                                                                       | Retain - No dig methodology when upgrading hard surfaces within the RPA. See Figure 25991-3-ARB-09 | A1,2     | 11.5           | 415                        |

| Tree No. | Species                                          | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class    | SLE       | Overall Condition | Comments                                                                                                                                                                                      | Management                                                                                                                                                                                        | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|--------------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|--------------|-----------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------------------|
|          |                                                  |            |              |                       | N                 | E | S | W |                               |              |           |                   |                                                                                                                                                                                               |                                                                                                                                                                                                   |          |                |                            |
| T083#    | Common hawthorn ( <i>Crataegus monogyna</i> )    | 7          | 2            | 300                   | 2                 |   |   |   | 1                             | Mature       | 10+ Years | Fair              | Field boundary tree. Dysfunctional wood on the main stem and minor deadwood throughout the crown all online with species and age. Vertical crack along the central stem from the base to 1.5m | Retain and Protect as per TPP/AMS                                                                                                                                                                 | C2       | 5.1            | 82                         |
| T084#    | Common hawthorn ( <i>Crataegus monogyna</i> )    | 7          | 2            | 300                   | 1                 |   |   |   | 1                             | Dead         | Dead      | Dead              | Field boundary tree                                                                                                                                                                           | Retain as habitat - prune to make safe                                                                                                                                                            | U        | 5.1            | 82                         |
| T085#    | Sycamore ( <i>Acer pseudoplatanus</i> )          | 16         | 1            | 810                   | 6                 |   |   |   | 2.5                           | Mature       | 40+ Years | Good              | Field boundary tree part of linear group. Large buttressing roots. Epicormic growth on the main stem. Good form.                                                                              | Retain and Protect as per TPP/AMS                                                                                                                                                                 | A1,2     | 9.7            | 296                        |
| G086#    | Common hawthorn x2 ( <i>Crataegus monogyna</i> ) | 9          | 2            | 320, 280              | See plan          |   |   |   | 0                             | Early Mature | 20+ Years | Good              | Part of linear field boundary tree group. Dysfunctional wood on the main stem in line with tree species and age. Good vitality with good form and high habitat value                          | Retain and Protect as per TPP/AMS                                                                                                                                                                 | B1,2     | —              | —                          |
| T087#    | Sycamore ( <i>Acer pseudoplatanus</i> )          | 16         | 1            | 620                   | 6                 |   |   |   | 2.5                           | Mature       | 40+ Years | Good              | Field boundary tree part of linear group. Large buttressing roots. Epicormic growth on the main stem. Good form.                                                                              | Retain - No dig methodology when upgrading hard surfaces within the RPA. Specialised footings may be required if the structure requires footings. See method statement. See Figure 25991-3-ARB-09 | A1,2     | 7.4            | 172                        |
| T088#    | Sycamore ( <i>Acer pseudoplatanus</i> )          | 16         | 1            | 800                   | 6                 |   |   |   | 2.5                           | Mature       | 40+ Years | Good              | Field boundary tree part of linear group. Large buttressing roots. Epicormic growth on the main stem. Good form.                                                                              | Retain - No dig methodology when upgrading hard surfaces within the RPA. Specialised footings may be required if the structure requires footings. See method statement. See Figure 25991-3-ARB-09 | A1,2     | 9.6            | 290                        |

| Tree No. | Species                                             | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class    | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                                                                               | Management                                                                                                                                                                                        | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|-----------------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|--------------|-----------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------------------|
|          |                                                     |            |              |                       | N                 | E | S | W |                               |              |           |                   |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                   |          |                |                            |
| T089#    | Sycamore<br>( <i>Acer pseudoplatanus</i> )          | 16         | 2            | 340, 800#             | 8                 |   |   |   | 2.5                           | Mature       | 40+ Years | Good              | Field boundary tree part of linear group. Large buttressing roots and aerial roots. Basal epicormic growth. Good form.                                                                                                                                                                                 | Retain - No dig methodology when upgrading hard surfaces within the RPA. Specialised footings may be required if the structure requires footings. See method statement. See Figure 25991-3-ARB-09 | A1,2     | 10.4           | 340                        |
| T090#    | Sycamore<br>( <i>Acer pseudoplatanus</i> )          | 16         | 2            | 570, 900              | 8                 |   |   |   | 2.5                           | Mature       | 40+ Years | Good              | Field boundary tree part of linear group. Large buttressing roots and aerial roots. Twin stem at 500mm with SW developing into twin stem. Impressive tree with                                                                                                                                         | Retain - No dig methodology when upgrading hard surfaces within the RPA. Specialised footings may be required if the structure requires footings. See method statement. See Figure 25991-3-ARB-09 | A1,2     | 12.8           | 515                        |
| G091#    | Common hawthorn x3<br>( <i>Crataegus monogyna</i> ) | 8          | 3            | 320, 300, 150         | See plan          |   |   |   | 0                             | Early Mature | 20+ Years | Good              | Part of linear field boundary tree group. Dysfunctional wood on the main stem in line with tree species and age. Good vitality with good form and high habitat value                                                                                                                                   | Retain and Protect as per TPP/AMS                                                                                                                                                                 | B1,2     | —              | —                          |
| G092#    | Common hawthorn x3<br>( <i>Crataegus monogyna</i> ) | 8          | 3            | 200, 150, 150         | See plan          |   |   |   | 0                             | Early Mature | 20+ Years | Good              | Part of linear field boundary tree group. Dysfunctional wood on the main stem in line with tree species and age. Good vitality with good form and high habitat value                                                                                                                                   | Retain and Protect as per TPP/AMS                                                                                                                                                                 | B1,2     | —              | —                          |
| T093#    | Common ash<br>( <i>Fraxinus excelsior</i> )         | 15         | 1            | 500                   | 0                 |   |   |   | 4                             | Mature       | <10 years | Poor              | Located on old field boundary. Tree appears Moribund. Evidence of historic pruning wounds some with cavities. Stem/limb decay Significant deadwood. Acceptable condition at present due to low footfall. Fractured limbs - storm damage Pests and Diseases: Ash Dieback Infection Level 4: 75% to 100% | Retain - Suspected Ash Dieback                                                                                                                                                                    | C2       | 6              | 113                        |

| Tree No. | Species                                  | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                                                                                                                                                                                                          | Management                        | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|-----------|-----------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------|----------------|----------------------------|
|          |                                          |            |              |                       | N                 | E | S | W |                               |           |           |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |          |                |                            |
| T094#    | Common ash ( <i>Fraxinus excelsior</i> ) | 17         | 1            | 600                   | 3                 |   |   |   | 6                             | Mature    | 10+ Years | Fair              | <p>Located on old field boundary.</p> <p>Significant exposed buttress roots exhibiting linear growth pattern.</p> <p>Evidence of historic pruning wounds some with cavities.</p> <p>Stem/limb decay</p> <p>Dead wood noted.</p> <p>Acceptable condition at present due to low footfall.</p> <p>Fractured limbs - storm damage</p> <p>Pests and Diseases:</p> <p>Ash Dieback Infection Level 1: 0% to 25%</p>                      | Retain - Suspected Ash Dieback    | B2       | 7.2            | 163                        |
| T095#    | Common ash ( <i>Fraxinus excelsior</i> ) | 17         | 1            | 800                   | 9                 |   |   |   | 2                             | Mature    | 10+ Years | Fair              | <p>Located on old field boundary.</p> <p>Significant exposed buttress roots exhibiting linear growth pattern.</p> <p>Evidence of historic pruning wounds some with cavities.</p> <p>Stem/limb decay</p> <p>Dead wood and hanging branches noted.</p> <p>Acceptable condition at present due to low footfall.</p> <p>Fractured limbs - storm damage</p> <p>Pests and Diseases:</p> <p>Ash Dieback Infection Level 1: 0% to 25%</p> | Retain - Suspected Ash Dieback    | B2       | 9.6            | 290                        |
| H096#    | Hawthorn ( <i>Crataegus sp.</i> )        | 4          | 3            | 150                   | 2.5               |   |   |   | 0.5                           | Mature    | 20+ Years | Fair              | <p>Lapsed and broken field boundary hedgerow.</p> <p>Historically layered.</p> <p>Now stand alone trees.</p> <p>Wildlife habitat.</p> <p>Dead wood</p> <p>Roots at surface</p>                                                                                                                                                                                                                                                    | Retain and Protect as per TPP/AMS | B2       | 1.8            | 159                        |

| Tree No. | Species                                     | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Management                     | Category | RPA Radius (m) | RPA Area (m²) |
|----------|---------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|-----------|-----------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------|----------------|---------------|
|          |                                             |            |              |                       | N                 | E | S | W |                               |           |           |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |          |                |               |
| T097#    | Common ash<br>( <i>Fraxinus excelsior</i> ) | 11         | 1            | 700                   | 5                 |   |   |   | 3                             | Mature    | 10+ Years | Fair              | <p>Located on old field boundary.</p> <p>Significant exposed buttress roots exhibiting linear growth pattern on southeast side.</p> <p>Evidence of historic pruning wounds some with cavities.</p> <p>Stem/limb decay</p> <p>Dead wood noted.</p> <p>Acceptable condition at present due to low footfall.</p> <p>Fractured limbs - storm damage</p> <p>Pests and Diseases:</p> <p>Ash Dieback Infection Level 1: 0% to 25%</p>                                                     | Retain - Suspected Ash Dieback | A2       | 8.4            | 222           |
| T098#    | Common ash<br>( <i>Fraxinus excelsior</i> ) | 7          | 1            | 800                   | 3                 |   |   |   | 0                             | Dead      | Dead      | Dead              | <p>Standing deadwood located on old field boundary atop dilapidated drystone wall.</p> <p>Large, open vertical cavity.</p> <p>Wildlife habitat.</p> <p>Acceptable condition at present due to low footfall.</p>                                                                                                                                                                                                                                                                    | Retain - Suspected Ash Dieback | C1       | 9.6            | 290           |
| T099#    | Common ash<br>( <i>Fraxinus excelsior</i> ) | 25         | 1            | 1200                  | 9                 |   |   |   | 2                             | Mature    | 10+ Years | Fair              | <p>Located on old field boundary atop dilapidated drystone wall.</p> <p>Significant exposed buttress roots exhibiting linear growth pattern on southeast side.</p> <p>Evidence of historic pruning wounds some with cavities.</p> <p>Stem/limb decay</p> <p>Dead wood and hanging branches noted.</p> <p>Acceptable condition at present due to low footfall.</p> <p>Fractured limbs - storm damage</p> <p>Pests and Diseases:</p> <p>Ash Dieback Infection Level 1: 0% to 25%</p> | Retain - Suspected Ash Dieback | A2       | 14.4           | 651           |



| Tree No. | Species                                  | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Management                     | Category | RPA Radius (m) | RPA Area (m²) |
|----------|------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|-----------|-----------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------|----------------|---------------|
|          |                                          |            |              |                       | N                 | E | S | W |                               |           |           |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |          |                |               |
| T100#    | Common ash ( <i>Fraxinus excelsior</i> ) | 25         | 1            | 1000                  | 8                 |   |   |   | 3                             | Mature    | 10+ Years | Fair              | <p>Located on old field boundary atop dilapidated drystone wall.</p> <p>Significant exposed buttress roots exhibiting linear growth pattern on southeast side.</p> <p>Evidence of historic pruning wounds some with cavities.</p> <p>Stem/limb decay</p> <p>Dead wood and hanging branches noted.</p> <p>Acceptable condition at present due to low footfall.</p> <p>Fractured limbs - storm damage</p> <p>Pests and Diseases:</p> <p>Ash Dieback Infection Level 1: 0% to 25%</p> | Retain - Suspected Ash Dieback | A2       | 12             | 452           |
| T101#    | Common ash ( <i>Fraxinus excelsior</i> ) | 25         | 1            | 1200                  | 8                 |   |   |   | 6                             | Mature    | 10+ Years | Fair              | <p>Located on old field boundary atop dilapidated drystone wall.</p> <p>Significant exposed buttress roots exhibiting linear growth pattern on southeast side.</p> <p>Evidence of historic pruning wounds some with cavities.</p> <p>Stem/limb decay</p> <p>Dead wood and hanging branches noted.</p> <p>Acceptable condition at present due to low footfall.</p> <p>Pests and Diseases:</p> <p>Ash Dieback Infection Level 2: 25% to 50%</p>                                      | Retain - Suspected Ash Dieback | A2       | 14.4           | 651           |
| T102#    | Common ash ( <i>Fraxinus excelsior</i> ) | 25         | 1            | 850                   | 10                |   |   |   | 2                             | Mature    | 10+ Years | Fair              | <p>Located on old field boundary atop dilapidated drystone wall.</p> <p>Significant exposed buttress roots exhibiting linear growth pattern on southeast side.</p> <p>Evidence of historic pruning wounds some with cavities.</p> <p>Stem/limb decay</p> <p>Dead wood</p> <p>Pests and Diseases:</p> <p>Ash Dieback Infection Level 1: 0% to 25%</p>                                                                                                                               | Retain - Suspected Ash Dieback | A2       | 10.2           | 327           |

| Tree No. | Species                                  | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class    | SLE       | Overall Condition | Comments                                                                                                                                                                                                                              | Management                                                                                           | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|--------------|-----------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------|----------------|----------------------------|
|          |                                          |            |              |                       | N                 | E | S | W |                               |              |           |                   |                                                                                                                                                                                                                                       |                                                                                                      |          |                |                            |
| T103#    | Common ash ( <i>Fraxinus excelsior</i> ) | 12         | 1            | 350                   | 5                 |   |   |   | 3                             | Early Mature | 10+ Years | Good              | Planted tree within adjacent field. Historically pruned to remove low hanging lateral branches and exhibiting good occlusion. Acceptable condition at present.<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 1: 0% to 25% | Retain - Suspected Ash Dieback                                                                       | C1       | 4.2            | 55                         |
| T104#    | Common ash ( <i>Fraxinus excelsior</i> ) | 10         | 1            | 310                   | 4                 |   |   |   | 1                             | Early Mature | 10+ Years | Good              | Natural colonisation within water treatment works plant.<br>No evidence of previous management. Acceptable condition at present.<br>No indication of infection with Ash dieback.                                                      | Retain - Suspected Ash Dieback                                                                       | C1       | 3.7            | 43                         |
| T105#    | Common ash ( <i>Fraxinus excelsior</i> ) | 10         | 1            | 320                   | 3                 |   |   |   | 1                             | Early Mature | 10+ Years | Good              | Natural colonisation within water treatment works plant.<br>No evidence of previous management. Post and wire fence braiding stem. Acceptable condition at present.<br>No indication of infection with Ash dieback.                   | Retain - Suspected Ash Dieback                                                                       | C1       | 3.8            | 45                         |
| G106#    | Common alder ( <i>Alnus glutinosa</i> )  | 11         | 2            | 400                   | See plan          |   |   |   | 0.5                           | Mature       | 20+ Years | Fair              | Natural colonisation adjacent to riverbank. No evidence of previous management. Acceptable condition at present due to low footfall.<br><br>Occasional willow adjacent.                                                               | Partial removal of the group (see plan)                                                              | B2       | –              | –                          |
| G107#    | Willow x3 ( <i>Salix sp.</i> )           | 4          | 3            | 200                   | See plan          |   |   |   | 0                             | Semi Mature  | 10+ Years | Fair              | Natural colonisation along riverbank. Group has not seen any previous management. Provides wildlife habitat. Acceptable condition at present due to low footfall.                                                                     | Partial removal of the group. Approximately 45 meters of the southern group to be removed (see plan) | C1       | –              | –                          |

| Tree No. | Species                                    | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Management                                                                                                                                                                                                                                                                                                            | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|--------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|-----------|-----------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------------------|
|          |                                            |            |              |                       | N                 | E | S | W |                               |           |           |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                       |          |                |                            |
| G108#    | Common alder<br>( <i>Alnus glutinosa</i> ) | 14         | 2            | 400                   | See plan          |   |   |   | 0.5                           | Mature    | 20+ Years | Fair              | <p>Natural colonisation adjacent to riverbank.<br/>No evidence of previous management.<br/>Acceptable condition at present due to low footfall.</p> <p>Occasional Ash and willow adjacent.</p> <p>Pests and Diseases:<br/>Ash Dieback Infection Level 3: 50% to 75%</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Retain and Protect as per TPP/AMS                                                                                                                                                                                                                                                                                     | B2       | —              | —                          |
| G109#    | Mixed species<br>( <i>Mixed species</i> )  | 25         | 1            | 1000#                 | See plan          |   |   |   | 2                             | Mature    | 40+ Years | Good              | <p>Likely planted Avenue of beech trees with an understory of hawthorn hedgerow and now with natural colonisation of elm, sycamore.<br/>Individual stems have been plotted within the group<br/>Collectively, this is a prominent landscape feature with high visual and ecological value.<br/>2x mature beech have recently failed in high winds.<br/>Remaining trees appear structurally secure.<br/>Trees would require ground and stem protection if the site is affected by construction.<br/>Crown lifting by 5m<br/>Ground protection along the track and stem boxes<br/>Species number estimated average of 1000mm DBH</p> <p>Pests and Diseases:<br/>Ash Dieback Infection Level 1: 0% to 25%<br/>Ash Dieback Infection Level 2: 25% to 50%<br/>Ash Dieback Infection Level 3: 50% to 75%</p> | <p>Stem protection boxes to be installed on stems adjacent to the track and selected pruning to provide 5m clearance over the access track, If the existing access road will be used during construction.<br/>Upgrading of the access road must adopt 'No Dig' methodology as outlined in Figure 5 25991-3-ARB-09</p> | A1,2     | —              | —                          |
| T110#    | Hawthorn<br>( <i>Crataegus sp.</i> )       | 4          | 1            | 250                   | 2.5               |   |   |   | 1.5                           | Mature    | 20+ Years | Fair              | <p>Possibly remnants of field boundary hedgerow.<br/>Historically pruned to remove low hanging lateral branches.<br/>Stem/limb decay.<br/>Acceptable condition at present due to low footfall.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Retain - Suspected Ash Dieback                                                                                                                                                                                                                                                                                        | B1       | 3              | 28                         |

| Tree No. | Species                              | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class    | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                               | Management                     | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|--------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|--------------|-----------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------|----------------|----------------------------|
|          |                                      |            |              |                       | N                 | E | S | W |                               |              |           |                   |                                                                                                                                                                                                                                                        |                                |          |                |                            |
| T111#    | Hawthorn<br>( <i>Crataegus sp.</i> ) | 2.5        | 1            | 200                   | 1.5               |   |   |   | 1                             | Mature       | 10+ Years | Fair              | Possibly remnants of field boundary hedgerow. Significant stem lean west although structural stability appears uncompromised. Stem/limb decay. Acceptable condition at present due to low footfall.                                                    | Retain - Suspected Ash Dieback | C1       | 2.4            | 18                         |
| T112#    | Hawthorn<br>( <i>Crataegus sp.</i> ) | 5          | 3            | 320                   | 4                 |   |   |   | 1                             | Over Mature  | 10+ Years | Fair              | Possibly remnants of field boundary hedgerow. Tree has historically failed and has self optimised with 1x Codominant stem growing horizontally. Stem/limb decay and exhibiting veteran qualities. Acceptable condition at present due to low footfall. | Retain - Suspected Ash Dieback | B1       | 6.6            | 137                        |
| T113#    | Hawthorn<br>( <i>Crataegus sp.</i> ) | 3          | 2            | 150                   | 2                 |   |   |   | 0.5                           | Early Mature | 10+ Years | Fair              | Possibly remnants of field boundary hedgerow. Bifurcated stem with one stem failed. Stem/limb decay. Acceptable condition at present due to low footfall.                                                                                              | Retain - Suspected Ash Dieback | C1       | 2.5            | 20                         |
| T114#    | Hawthorn<br>( <i>Crataegus sp.</i> ) | 3          | 2            | 150                   | 2                 |   |   |   | 0.5                           | Early Mature | 10+ Years | Fair              | Possibly remnants of field boundary hedgerow. Bifurcated stem exhibiting acute included union with no indication of failure. Stem/limb decay. Acceptable condition at present due to low footfall.                                                     | Retain - Suspected Ash Dieback | C1       | 2.5            | 20                         |

| Tree No. | Species                                    | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class    | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                               | Management                        | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|--------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|--------------|-----------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------|----------------|----------------------------|
|          |                                            |            |              |                       | N                 | E | S | W |                               |              |           |                   |                                                                                                                                                                                                                                                        |                                   |          |                |                            |
| T115#    | Hawthorn<br>( <i>Crataegus sp.</i> )       | 3          | 1            | 200                   | 2                 |   |   |   | 0.5                           | Early Mature | 10+ Years | Fair              | Possibly remnants of field boundary hedgerow. Bifurcated stem exhibiting acute included union with no indication of failure. Stem/limb decay. Acceptable condition at present due to low footfall.                                                     | Retain - Suspected Ash Dieback    | C1       | 2.4            | 18                         |
| T116#    | Common alder<br>( <i>Alnus glutinosa</i> ) | 7          | 6            | 200                   | 4                 |   |   |   | 1                             | Early Mature | 20+ Years | Fair              | Natural colonisation on riverbank. No evidence of previous management. Provides wildlife habitat. Acceptable condition at present due to low footfall.                                                                                                 | Retain - Suspected Ash Dieback    | B1       | 5.9            | 109                        |
| T117#    | Common alder<br>( <i>Alnus glutinosa</i> ) | 7          | 8            | 250                   | 5                 |   |   |   | 1                             | Early Mature | 20+ Years | Fair              | Natural colonisation on riverbank - possibly two trees. No evidence of previous management. Provides wildlife habitat. Acceptable condition at present due to low footfall.                                                                            | Retain - Suspected Ash Dieback    | B1       | 8.5            | 227                        |
| T118#    | Common alder<br>( <i>Alnus glutinosa</i> ) | 8          | 1            | 330                   | 2.5               |   |   |   | 1                             | Early Mature | 10+ Years | Fair              | Natural colonisation on riverbank. No evidence of previous management. Acceptable condition at present due to low footfall.                                                                                                                            | Retain - Suspected Ash Dieback    | C1       | 4              | 50                         |
| T119#    | Hawthorn<br>( <i>Crataegus sp.</i> )       | 3          | 3            | 330                   | 6                 |   |   |   | 1                             | Over Mature  | 10+ Years | Fair              | Possibly remnants of field boundary hedgerow. Tree has historically failed and has self optimised with 1x Codominant stem growing horizontally. Stem/limb decay and exhibiting veteran qualities. Acceptable condition at present due to low footfall. | Remove to facilitate the proposal | B1       | 6.9            | 150                        |

| Tree No. | Species                                     | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class   | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                                                                                 | Management                        | Category | RPA Radius (m) | RPA Area (m <sup>2</sup> ) |
|----------|---------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|-------------|-----------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------|----------------|----------------------------|
|          |                                             |            |              |                       | N                 | E | S | W |                               |             |           |                   |                                                                                                                                                                                                                                                                                                          |                                   |          |                |                            |
| T120#    | Hawthorn<br>( <i>Crataegus sp.</i> )        | 3          | 2            | 330                   | 2                 |   |   |   | 1                             | Over Mature | 10+ Years | Fair              | Possibly remnants of field boundary hedgerow. Bifurcated stem exhibiting exposed surface roots although structural stability appears acceptable. Stem/limb decay exhibiting occlusion. Acceptable condition at present due to low footfall.                                                              | Remove to facilitate the proposal | C1       | 5.6            | 99                         |
| T121#    | Hawthorn<br>( <i>Crataegus sp.</i> )        | 3          | 2            | 300                   | 2                 |   |   |   | 0.5                           | Over Mature | 10+ Years | Fair/poor.        | Possibly remnants of field boundary hedgerow. Tree has historically failed and has self optimised. Stem/limb decay. Acceptable condition at present due to low footfall.                                                                                                                                 | Remove to facilitate the proposal | C1       | 5.1            | 82                         |
| H122#    | Hawthorn<br>( <i>Crataegus sp.</i> )        | 4          | 3            | 200                   | 3                 |   |   |   | 1                             | Mature      | 10+ Years | Good              | Broken field boundary hedgerow. Historically managed although no evidence of recent management. Provides wildlife habitat.                                                                                                                                                                               | Retain and Protect as per TPP/AMS | B2       | 2.4            | 818                        |
| T123#    | Hawthorn<br>( <i>Crataegus sp.</i> )        | 3.5        | 1            | 300                   | 2.5               |   |   |   | 1                             | Mature      | 10+ Years | Fair              | Possibly remnants of field boundary hedgerow. Significant stem lean west although structural stability appears uncompromised. Stem/limb decay. Acceptable condition at present due to low footfall.                                                                                                      | Remove to facilitate the proposal | C1       | 3.6            | 41                         |
| T124#    | Common ash<br>( <i>Fraxinus excelsior</i> ) | 18         | 1            | 1000                  | 8                 |   |   |   | 2                             | Mature      | 10+ Years | Fair              | Located adjacent to highway. Pruned in the past to remove low hanging lateral branches and exhibiting good occlusion. Low branches (5.2) obstruct vehicle access. Fractured limbs - storm damage Dieback - poor foliage Dead wood<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 1: 0% to 25% | Retain - Suspected Ash Dieback    | B1       | 12             | 452                        |

| Tree No. | Species                                                   | Height (m) | No. of Stems | Stem Dia. @ 1.5m (mm) | Crown Spreads (m) |   |   |   | Height of Crown Clearance (m) | Age Class | SLE       | Overall Condition | Comments                                                                                                                                                                                                                                                                                                                | Management                        | Category | RPA Radius (m) | RPA Area (m²) |
|----------|-----------------------------------------------------------|------------|--------------|-----------------------|-------------------|---|---|---|-------------------------------|-----------|-----------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------|----------------|---------------|
|          |                                                           |            |              |                       | N                 | E | S | W |                               |           |           |                   |                                                                                                                                                                                                                                                                                                                         |                                   |          |                |               |
| T125#    | Common ash ( <i>Fraxinus excelsior</i> )                  | 15         | 1            | 1000                  | 10                |   |   |   | 2                             | Mature    | <10 years | Fair/poor         | Located adjacent to highway.<br>Pruned in the past to remove low hanging lateral branches.<br>Low branches (5.2) obstruct vehicle access.<br>Fractured limbs - storm damage<br>Dieback - poor foliage<br>Dead wood<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 3: 50% to 75%                              | Retain - Suspected Ash Dieback    | C1       | 12             | 452           |
| H126#    | Hawthorn ( <i>Crataegus sp.</i> )                         | 1.5        | 3            | 140                   | 0.5               |   |   |   | 0.5                           | Mature    | 10+ Years | Fair              | Broken field boundary hedgerow.                                                                                                                                                                                                                                                                                         | Retain and Protect as per TPP/AMS | C1,2     | 1.7            | 28            |
| H127#    | Hawthorn ( <i>Crataegus sp.</i> )                         | 1.5        | 3            | 140                   | 0.5               |   |   |   | 0.5                           | Mature    | 10+ Years | Fair              | Broken field boundary hedgerow.                                                                                                                                                                                                                                                                                         | Retain and Protect as per TPP/AMS | C1,2     | 1.7            | 28            |
| H128#    | Hawthorn x3 ( <i>Crataegus sp.</i> )                      | 1.5        | 3            | 150                   | 0.5               |   |   |   | 0                             | Mature    | 20+ Years | Good              | Recently managed field boundary hedgerow.<br>Provides wildlife habitat.                                                                                                                                                                                                                                                 | Retain and Protect as per TPP/AMS | B2       | 1.8            | 787           |
| G129#    | Beech ( <i>Fagus sp.</i> )<br>Ash ( <i>Fraxinus sp.</i> ) | 20         | 1            | 1100                  | See plan          |   |   |   | 2                             | Mature    | 40+ Years | Good              | Offsite group located on northeast side of road.<br>Canopies to southwest overhang road with 5 metres ground clearance.<br>Established and dominant landscape feature.<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 1: 0% to 25%<br>Ash Dieback Infection Level 2: 25% to 50%                              | Retain - Suspected Ash Dieback    | A2       | —              | —             |
| T130#    | Common ash ( <i>Fraxinus excelsior</i> )                  | 18         | 1            | 1000                  | 5                 | 8 | 7 | 8 | 2                             | Mature    | 10+ Years | Fair              | Located adjacent to highway.<br>Pruned in the past to remove low hanging lateral branches and exhibiting good occlusion.<br>Low branches (5.2) obstruct vehicle access.<br>Fractured limbs - storm damage<br>Dieback - poor foliage<br>Dead wood<br><br>Pests and Diseases:<br>Ash Dieback Infection Level 1: 0% to 25% | Retain - Suspected Ash Dieback    | B1       | 12             | 452           |
| T131#    | Common ash ( <i>Fraxinus excelsior</i> )                  | 15         | 1            | 1100                  | 4                 | 6 | 6 | 6 | 3.5                           | Dead      | Dead      | Dead              | Standing deadwood overhanging access track.<br>Acceptable condition at present. Reduce to 5m standing deadwood if footfall changes.                                                                                                                                                                                     | Remove to facilitate the proposal | U        | 13.2           | 547           |



## Appendix 2: Site Photographs



**Plate 1:** W021 (CTLN. Nov. 25)



**Plate 2:** T008 (CTLN. Nov. 25)



**Plate 3:** T010 (CTLN. Nov. 25)



**Plate 4:** T053 (CTLN. Nov. 25)





**Plate 5:** T090 (CTLN. Nov. 25)



**Plate 6:** T101 (CTLN. Nov. 25)



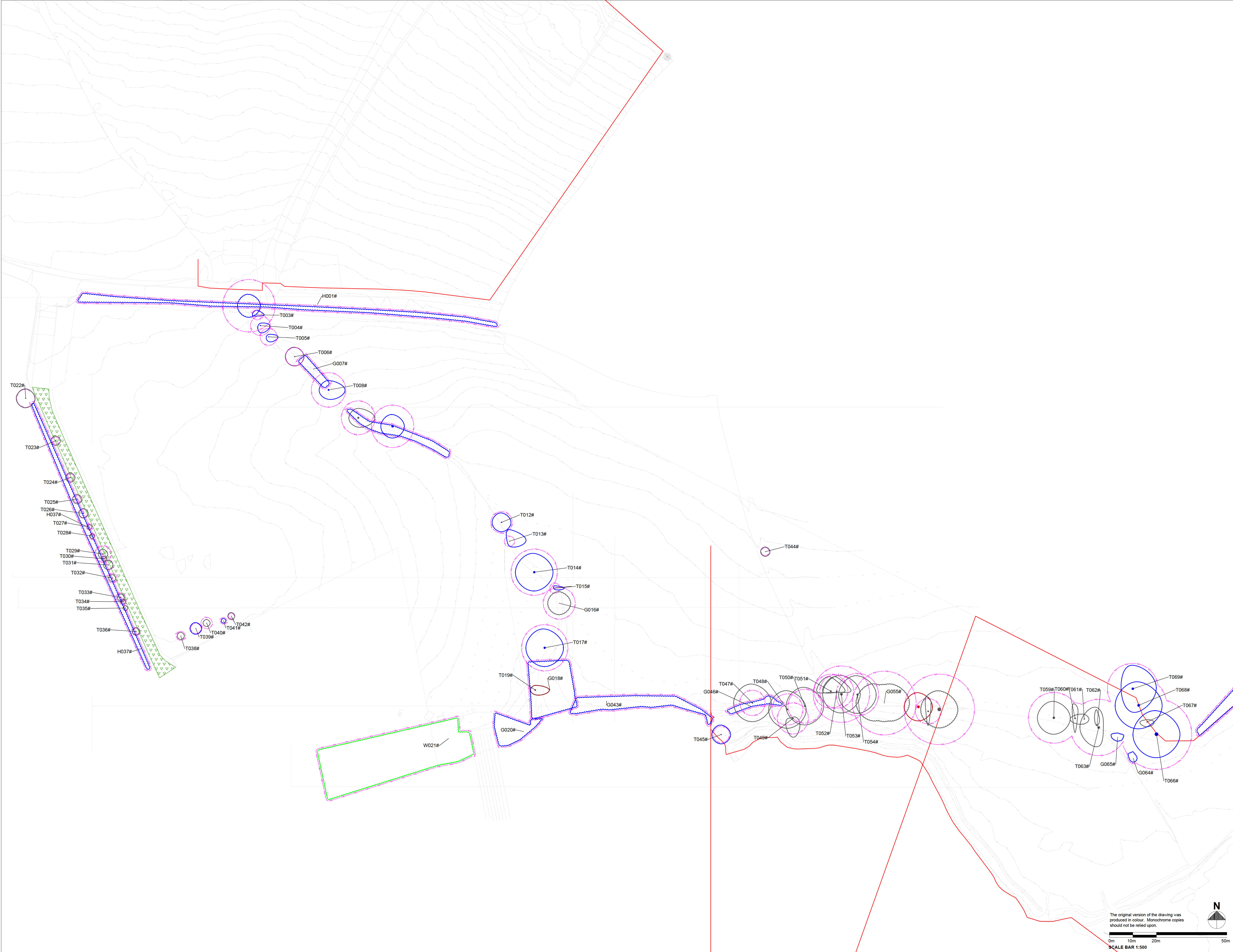
**Plate 7:** G107 (CTLN. Nov. 25)



**Plate 8:** T131 (CTLN. Nov. 25)

## Appendix 3: Figures





**GENERAL NOTES**

- Drawing for Planning purposes only
- Refer to arboricultural report produced by Cura Terrae Ltd titled 'Newton-in-Bowland (Hodder Crossing)' – BS 5837:2012 Arboricultural Report, Impact Assessment and Method Statement'.
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**KEY**

1

2

Stem Location

Location Estimated

Tree Categories (BS 5837:2012)

Category A Trees

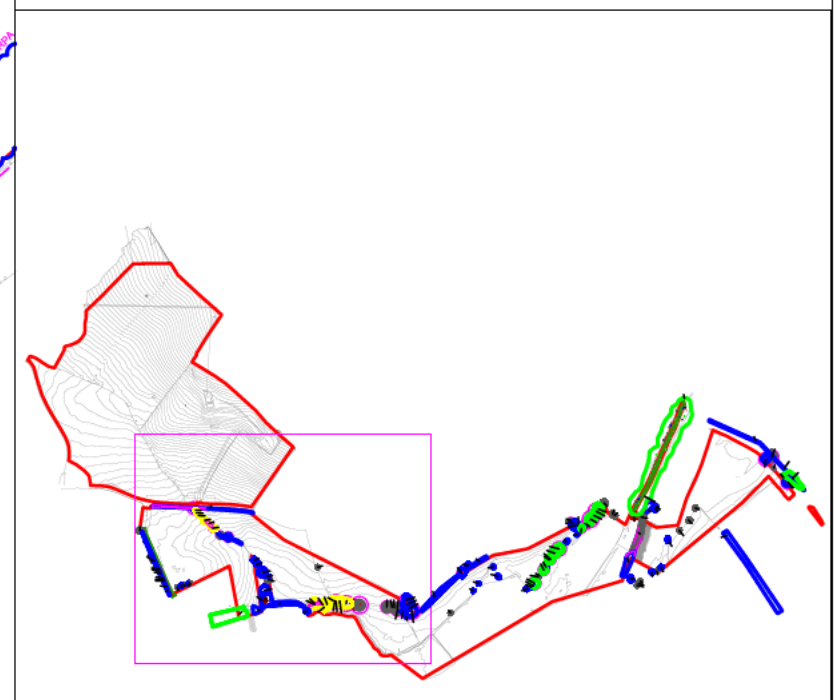
Category B Trees

Category C Trees

Category U Trees

Root Protection Area (RPA)

Existing hard standing



**KEY PLAN (not to scale)**

|     |          |       |         |                  |
|-----|----------|-------|---------|------------------|
| A   | 22/01/26 | LE    | NA      | Updated survey   |
| REV | DATE     | DRAWN | CHECKED | REVISION COMMENT |
|     |          | BY    | BY      |                  |

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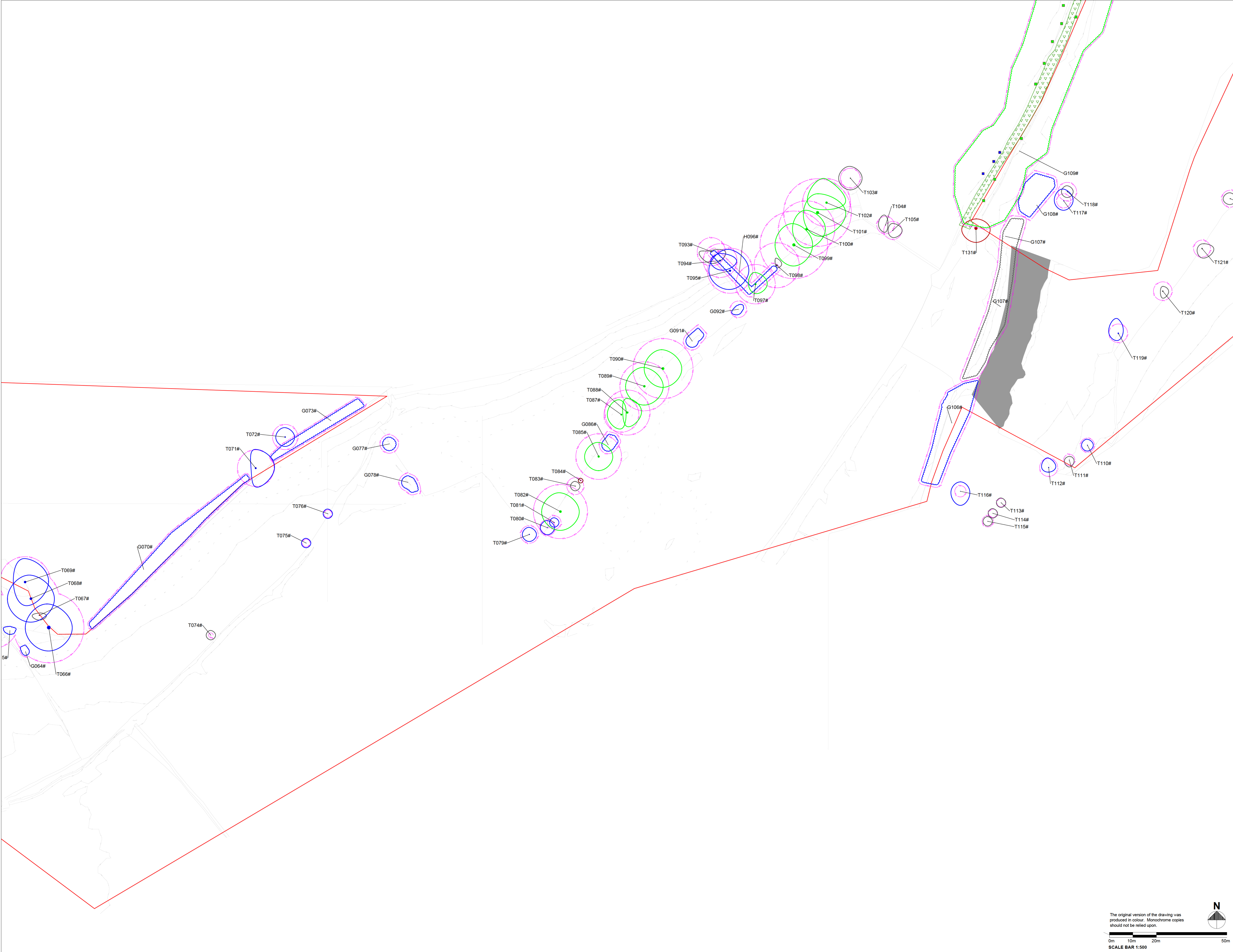
**25991-3- Newton-in-Bowland (Hodder Crossing)**

Title

**Figure 3 - Tree Constraints Plan**

|    |          |            |                |
|----|----------|------------|----------------|
| By | Date     | Scale @ A0 | Drg. no.       |
| LE | Dec 2025 | 1:500      | 25991-3-ARB-01 |





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**KEY**

1

2

Stem Location

Location Estimated

Tree Categories (BS 5837:2012)

A

B

C

U

Category A Trees

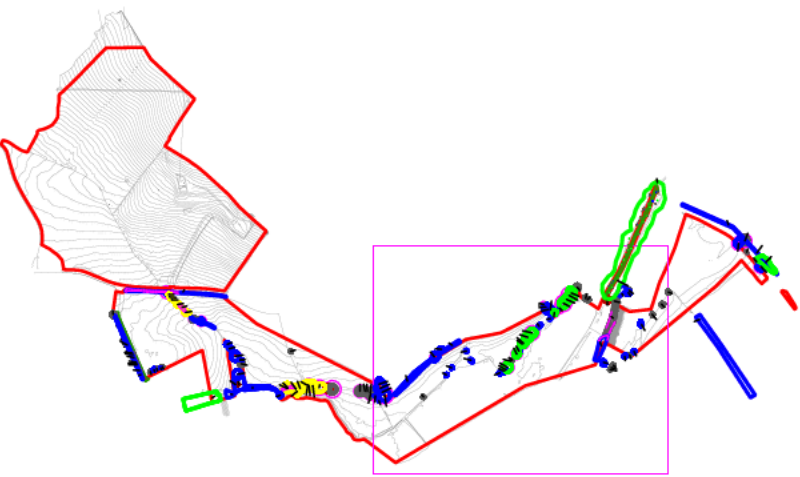
Category B Trees

Category C Trees

Category U Trees

Root Protection Area (RPA)

Existing hard standing



**KEY PLAN (not to scale)**

|     |          |       |         |                  |
|-----|----------|-------|---------|------------------|
| A   | 22/01/26 | LE    | NA      | Updated survey   |
| REV | DATE     | DRAWN | CHECKED | REVISION COMMENT |
|     |          | BY    | BY      |                  |

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**25991-3- Newton-in-Bowland (Hodder Crossing)**

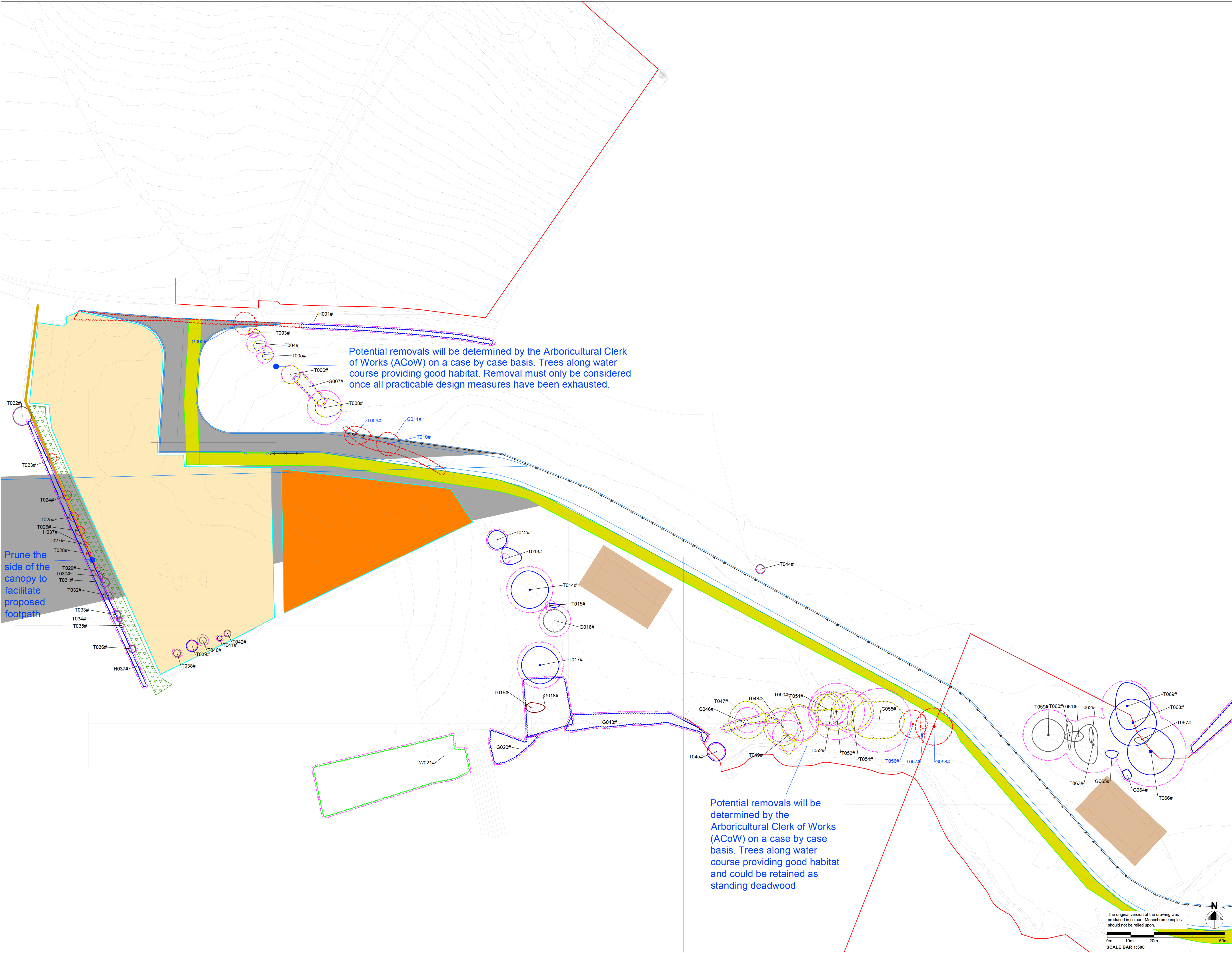
Title  
**Figure 3 - Tree Constraints Plan**

|    |          |            |                |
|----|----------|------------|----------------|
| By | Date     | Scale @ A0 | Drg. no.       |
| LE | Dec 2025 | 1:500      | 25991-3-ARB-02 |









**GENERAL NOTES**

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**KEY**

○ Stem Location

■ Location Estimated

Tree Categories (BS 5837:2012)

○ Category A Trees

○ Category B Trees

○ Category C Trees

○ Tree to be Removed

○ Category U Trees

○ Tree to be potentially Removed. Refer to report section 4.3

■ Root Protection Area (RPA)

■ Existing hard standing

**KEY PLAN** (not to scale)

|     |          |       |         |                                |
|-----|----------|-------|---------|--------------------------------|
| A   | 22/01/26 | LE    | NA      | Updated survey & Tree removals |
| REV | DATE     | DRAWN | CHECKED | REVISION COMMENT               |
|     |          | BY    | BY      |                                |

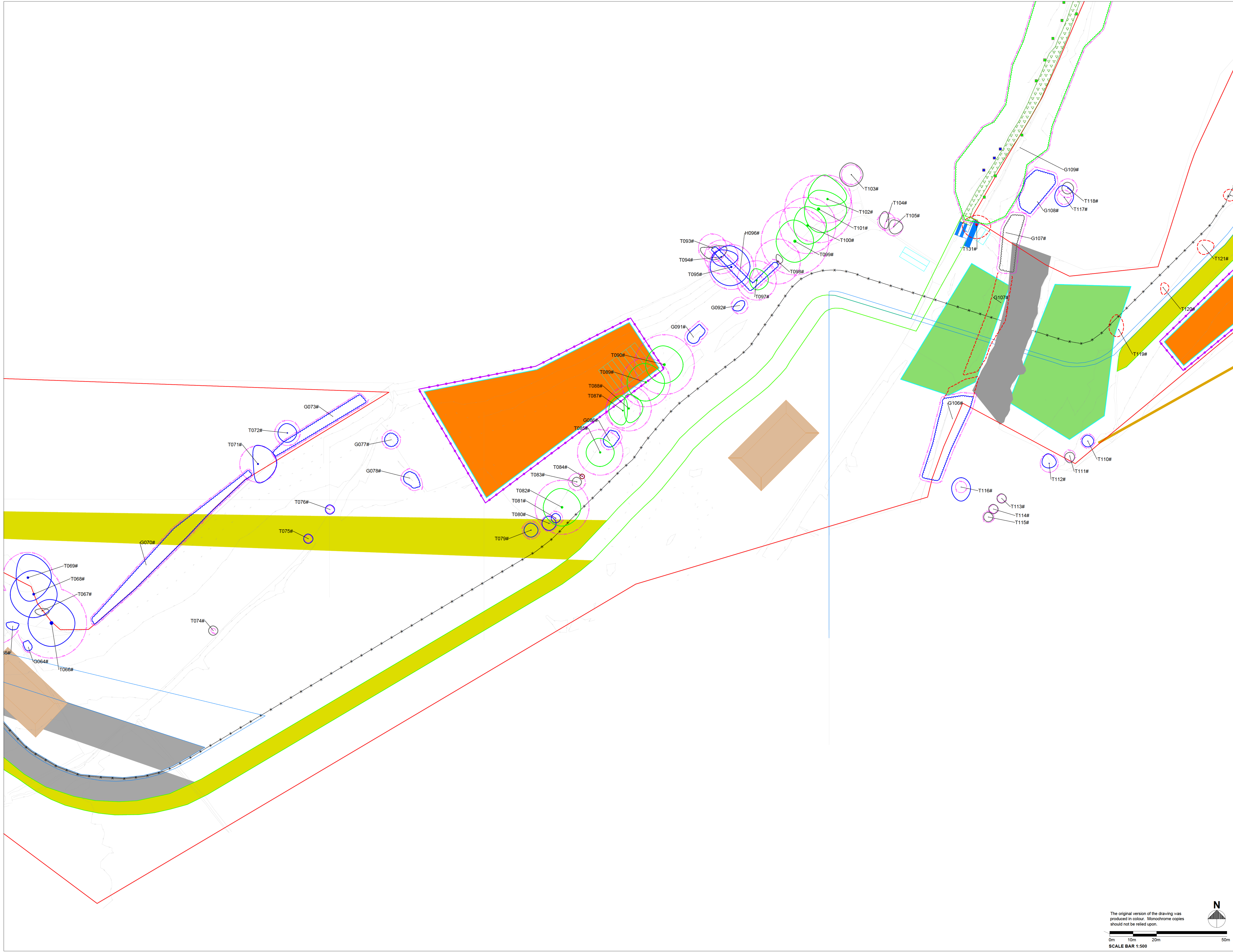
MICO, Rydal Road  
Wharfedale, BD2 3AB  
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Job  
**25991-3- Newton-in-Bowland (Hodder Crossing)**

Title  
**Figure 4 - Tree Impacts Plan**

|    |          |            |                |
|----|----------|------------|----------------|
| By | Date     | Scale @ A0 | Drg. no.       |
| LE | Dec 2025 | 1:500      | 25991-3-ARB-04 |





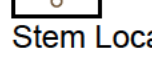
**GENERAL NOTES**

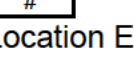
- Refer to arboricultural report produced by Cura Terrae Ltd titled 'Newton-in-Bowland (Hodder Crossing)' - BS 5837:2012 Arboricultural Report, Impact Assessment and Method Statement.
- Based on topographic survey provided by the client.
- Building layout and masterplan provided by the client.
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**KEY**

 Stem Location

 Location Estimated

Tree Categories (BS 5837:2012)

 Category A Trees

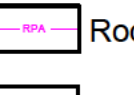
 Category B Trees

 Category C Trees

 Tree to be Removed

 Category U Trees

 Tree to be potentially Removed. Refer to report section 4.3

 Root Protection Area (RPA)

 Existing hard standing

**KEY PLAN (not to scale)**

|     |             |               |                                |
|-----|-------------|---------------|--------------------------------|
| A   | 22/01/26/LE | NA            | Updated survey & Tree removals |
| REV | DATE        | DRAWN CHECKED | REVISION COMMENT               |
|     |             | BY            | BY                             |



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Job

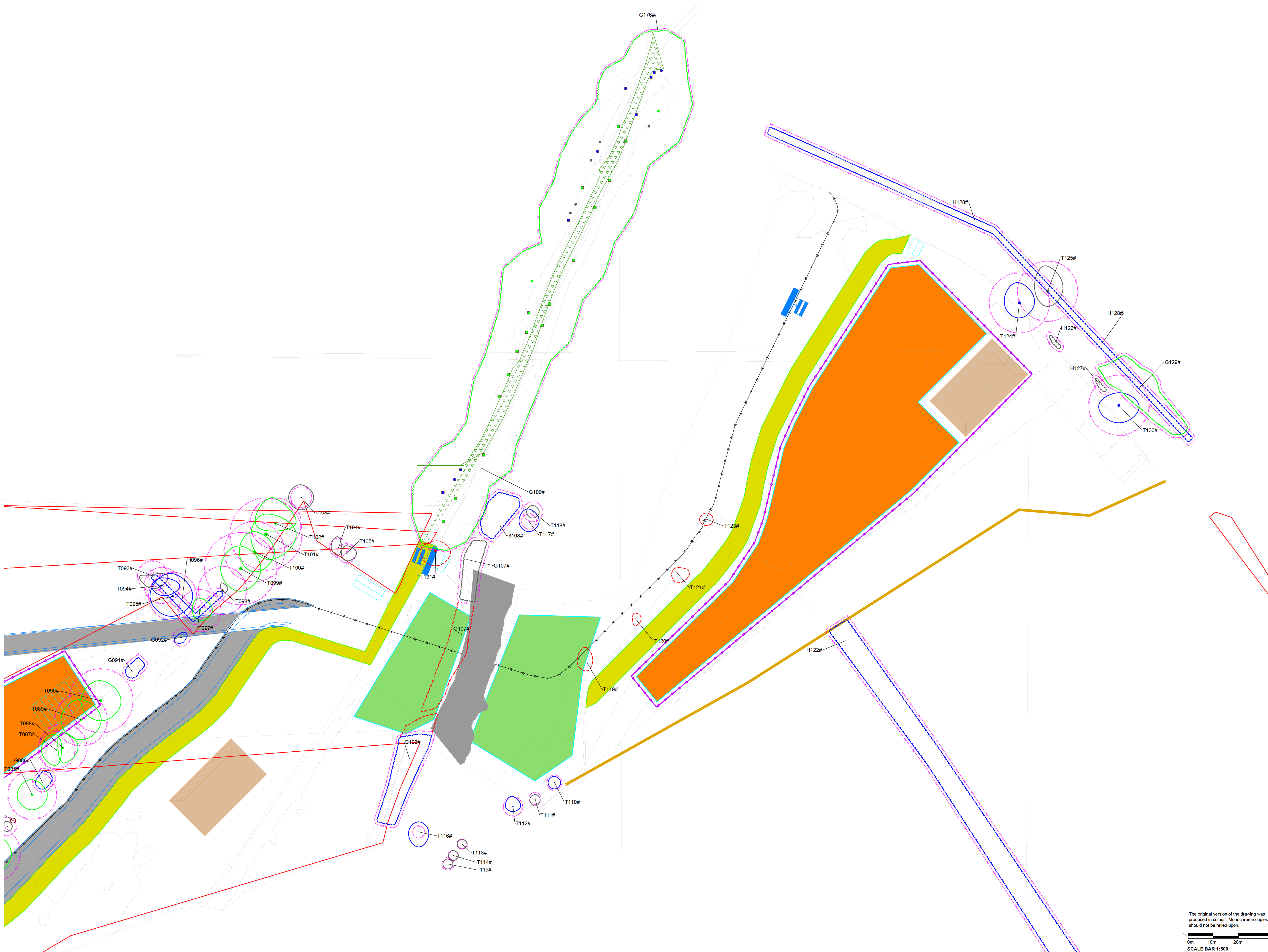
**25991-3- Newton-in-Bowland (Hodder Crossing)**

Title

**Figure 4 - Tree Impacts Plan**

|    |          |            |                |
|----|----------|------------|----------------|
| By | Date     | Scale @ A0 | Drg. no.       |
| LE | Dec 2025 | 1:500      | 25991-3-ARB-05 |





## GENERAL NOTES

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## KEY

|  Stem Location |  Location Estimated |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|

Tree Categories (BS 5837:2012)

Category A Trees    Category B Trees    Category C Trees    Tree to be Removed

Tree to be potentially  
Removed. Refer to report  
section 4.3

Root Protection Area (RPA)

Existing hard standing

[illegible]

**KEY PLAN** (not to scale)

|     |          |             |               |                                   |
|-----|----------|-------------|---------------|-----------------------------------|
| A   | 22/01/26 | LE          | NA            | Updated survey &<br>Tree removals |
| REV | DATE     | DRAWN<br>BY | CHECKED<br>BY | REVISION COMMENT                  |

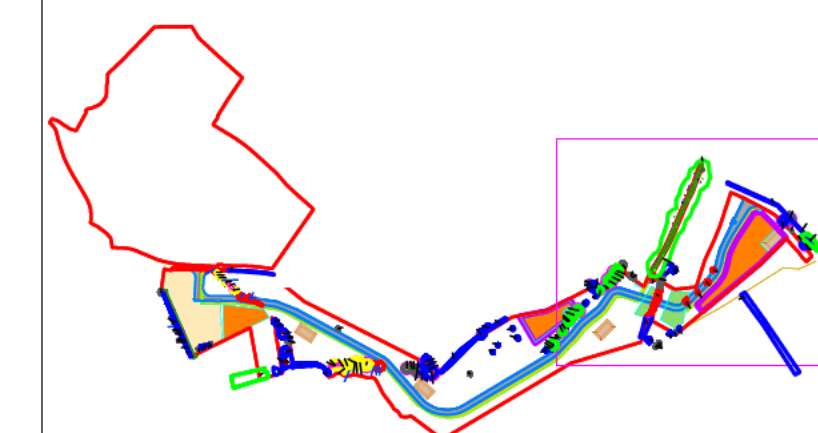


Job  
**25991-3- Newton-in-Bowland (Hodder Crossing)**

Title

**Figure 4 - Tree Impacts Plan**

|                 |                         |                            |                                   |
|-----------------|-------------------------|----------------------------|-----------------------------------|
| By<br><b>LE</b> | Date<br><b>Dec 2025</b> | Scale @ A0<br><b>1:500</b> | Drg. no.<br><b>25991-3-ARB-06</b> |
|-----------------|-------------------------|----------------------------|-----------------------------------|



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A diagram of a 50m race track. The track is represented by a horizontal line with a black starting block at the beginning and a black finish line at the end. The distance markers are 0m, 10m, 20m, and 50m.



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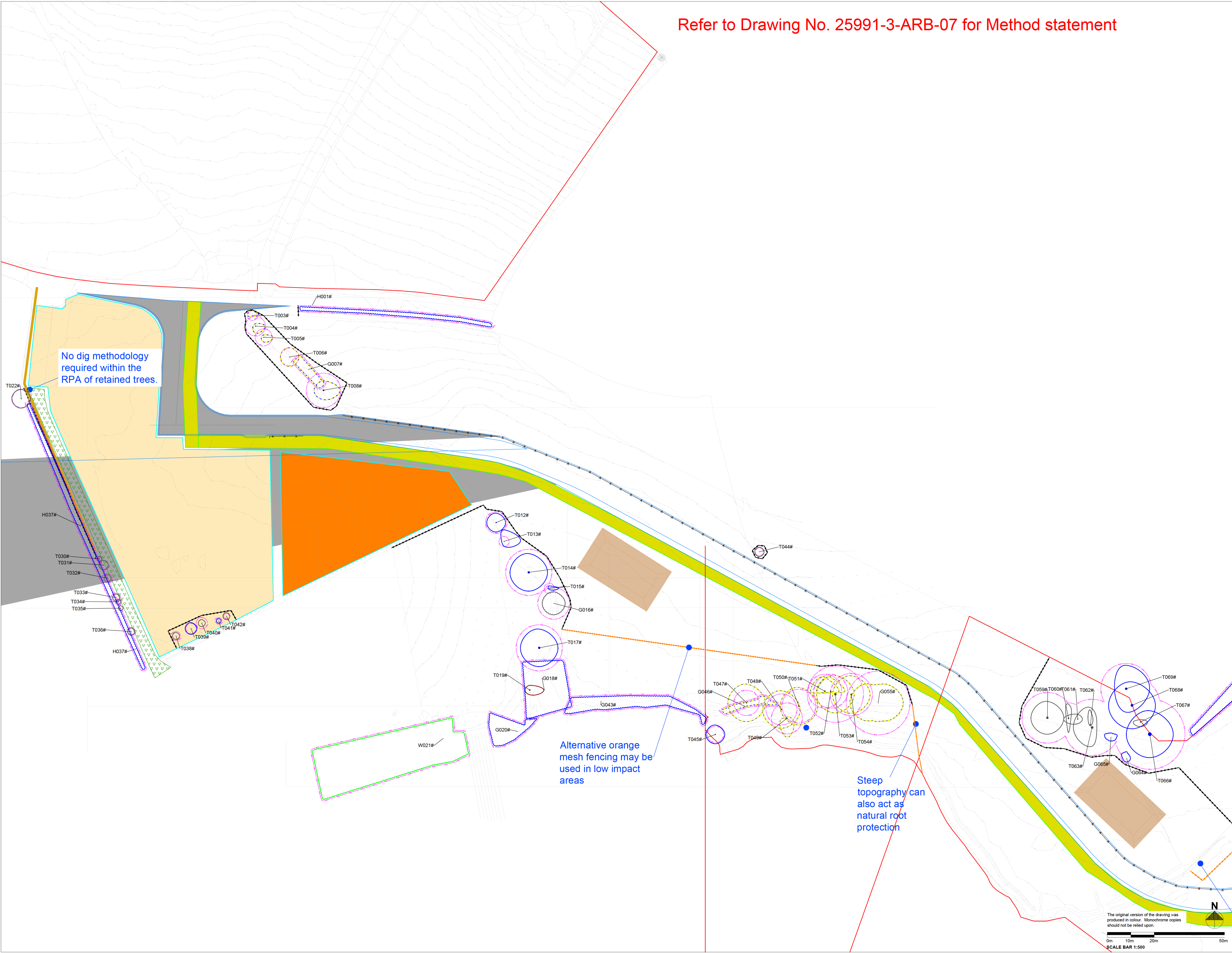


0m 10m 20m 50m

**SCALE BAR 1:500**



Refer to Drawing No. 25991-3-ARB-07 for Method statement



**GENERAL NOTES**

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**KEY**

Stem Location

Location Estimated

Tree Categories (BS 5837:2012)

Category A Trees

Category B Trees

Category C Trees

Tree to be potentially Removed. Refer to report section 4.3

Root Protection Area (RPA)

Tree Protection Fencing\*

Existing hard standing

Stem Protection Box\*

No-Dig Construction\*

Alternative Tree Protection Fencing\*

\*See note on drawing

**KEY PLAN (not to scale)**

|     |          |       |         |                                 |
|-----|----------|-------|---------|---------------------------------|
| B   | 22/01/26 | LE    | NA      | Updated survey & Tree removals  |
| A   | Dec 25   | LE    | CTLN    | Updated tree protection fencing |
| REV | DATE     | DRAWN | CHECKED | REVISION COMMENT                |
|     |          | BY    | BY      |                                 |

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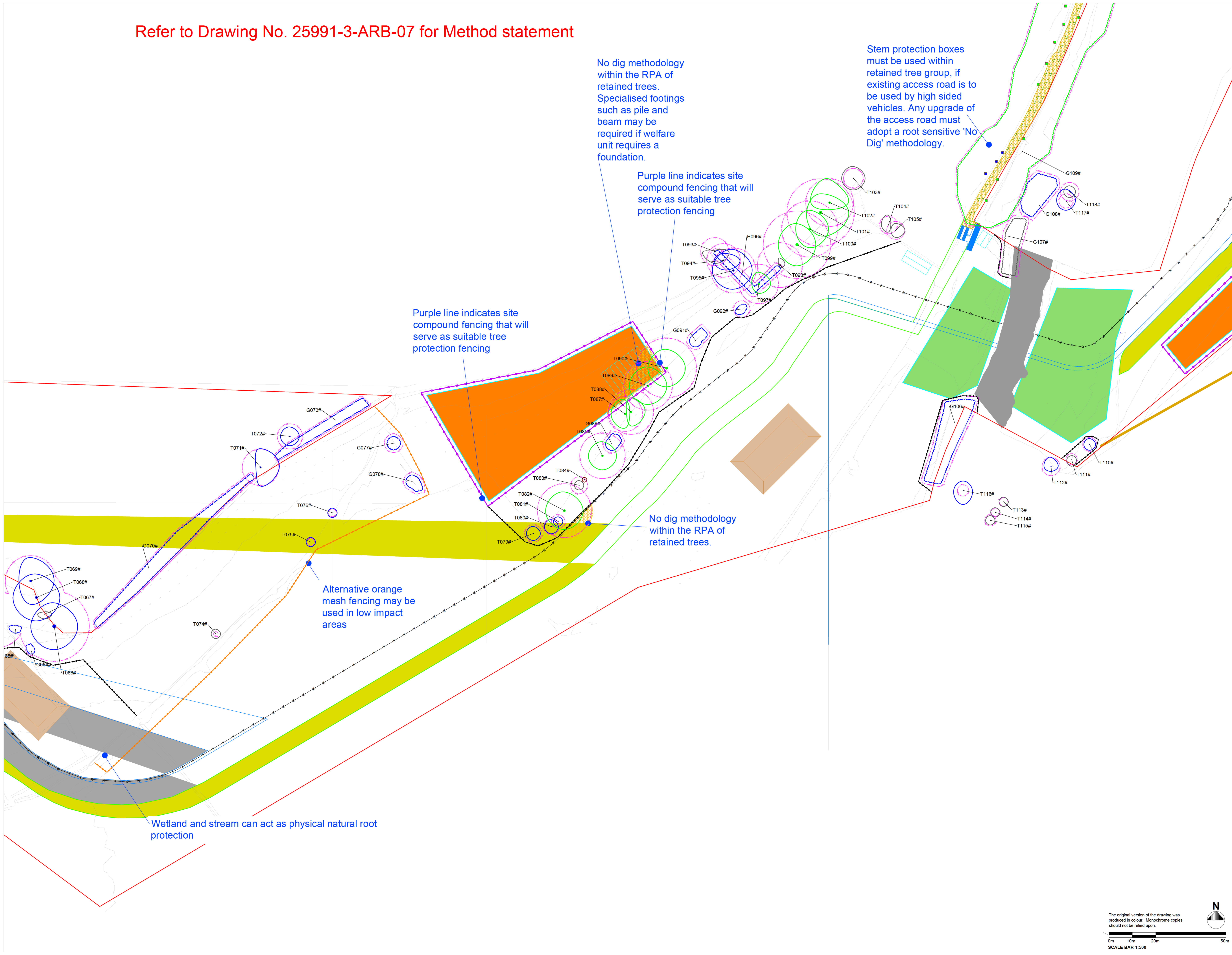
Job  
**25991-3- Newton-in-Bowland (Hodder Crossing)**

Title  
**Figure 5 - Arboricultural Method Statement**

|    |          |            |                |
|----|----------|------------|----------------|
| By | Date     | Scale @ A0 | Drg. no.       |
| LE | Dec 2025 | 1:500      | 25991-3-ARB-08 |



Refer to Drawing No. 25991-3-ARB-07 for Method statement



### GENERAL NOTES

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### KEY

Stem Location

Location Estimated

Tree Categories (BS 5837:2012)

Category A Trees

Category B Trees

Category C Trees

Category U Trees

Tree to be potentially Removed. Refer to report section 4.3

Root Protection Area (RPA)

Tree Protection Fencing\*

Existing hard standing

Stem Protection Box\*

No-Dig Construction\*

Alternative Tree Protection Fencing\*

\*See note on drawing

### KEY PLAN (not to scale)

|     |          |       |         |                                 |
|-----|----------|-------|---------|---------------------------------|
| B   | 22/01/26 | LE    | NA      | Updated survey & Tree removals  |
| A   | Dec 25   | LE    | CTLN    | Updated tree protection fencing |
| REV | DATE     | DRAWN | CHECKED | REVISION COMMENT                |
|     |          | BY    | BY      |                                 |

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Wythenshawe  
Manchester, M22 5WB  
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Job

**25991-3- Newton-in-Bowland (Hodder Crossing)**

Title

**Figure 5 - Arboricultural Method Statement**

|    |          |            |                |
|----|----------|------------|----------------|
| By | Date     | Scale @ A0 | Dwg. no.       |
| LE | Dec 2025 | 1:500      | 25991-3-ARB-09 |

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0m

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20m

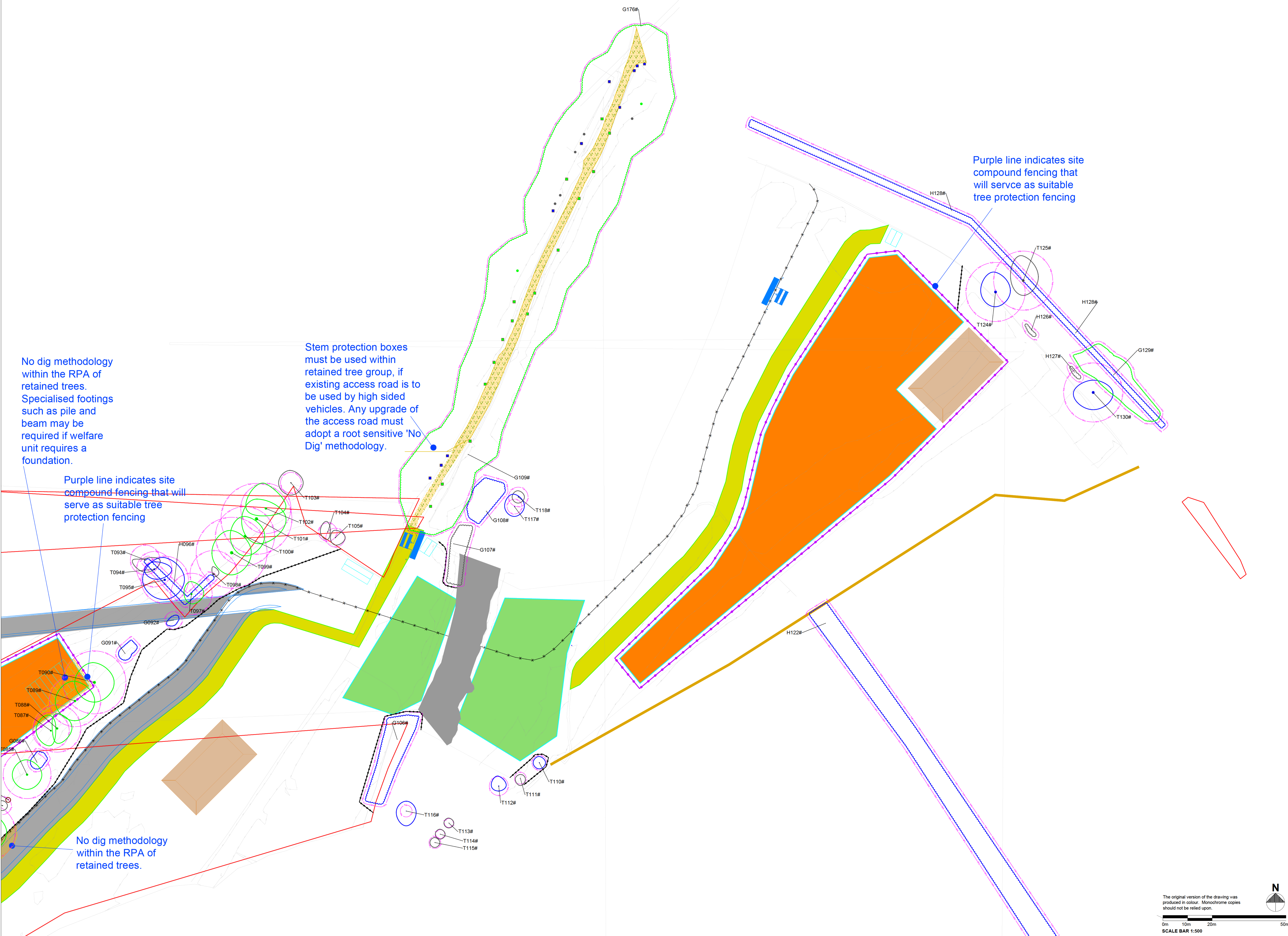
50m

SCALE BAR 1:500

N



Refer to Drawing No. 25991-3-ARB-07 for Method statement



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**KEY**

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Root Protection Area (RPA)

Tree Protection Fencing

Existing hard standing

Stem Protection Box

No-Dig Construction

\*See note on drawing

**KEY PLAN** (not to scale)

|     |          |       |         |                                 |
|-----|----------|-------|---------|---------------------------------|
| B   | 22/01/26 | LE    | NA      | Updated survey & Tree removals  |
| A   | Dec 25   | LE    | CTLN    | Updated tree protection fencing |
| REV | DATE     | DRAWN | CHECKED | REVISION COMMENT                |
|     |          | BY    | BY      |                                 |

MROC, Signal Road  
Wythenshawe  
Manchester, M22 5WB  
Tel: 0161 7 502080  
www.curaterrae.co.uk

Job

**25991-3- Newton-in-Bowland (Hodder Crossing)**

Title

**Figure 5 - Arboricultural Method Statement**

|    |          |            |                |
|----|----------|------------|----------------|
| By | Date     | Scale @ A0 | Drg. no.       |
| LE | Dec 2025 | 1:500      | 25991-3-ARB-10 |

The original version of the drawing was produced in colour. Monochrome copies should not be relied upon.

0m 10m 20m 50m

SCALE BAR 1:500

N



## Appendix 4: Tree Protection Signage

# Tree Protection Area



## Keep Out!

Trees enclosed by this fence are protected by planning conditions and are subjects of a tree preservation order (Town & Country Planning Act 1990).

Contravention of tree preservation orders may lead to criminal prosecution.

Any incursion into the protected area must be with the written permission of the local planning authority or under the supervision of the Project Arboriculturist.

For any issues relating to this tree protection area please call us on:  
0114 266 9292



## Appendix 5: Suffolk County Council Ash Die Back Canopy Description



#### The Issue

Identifying the symptoms of Ash Dieback in large trees can be difficult, so a system was needed to enable easy description of the current state of an Ash Tree. Tree Canopy assessment has been widely used since the late 1980's across Europe based on work produced in Switzerland in 1986. In 1990 the Forestry Commission produced a book – '[Assessment of Tree Condition](#)' to enable a standard system for describing the condition of a tree based on the percentage of existing canopy remaining.

Using this methodology Suffolk County Council undertook to describe the health of an Ash in Suffolk.

#### The steps undertaken

During the summer of 2013/14 Suffolk County Council assessed and photographed Ash across the county. They determined that there were 4 useful categories to describe Ash canopies. The categories chosen were

- 100% full canopy,
- 75% canopy,
- 50% canopy
- and 25% canopy.

These are represented photographically in the pictures at the end of this Case Study.

These 4 classes fit with work undertaken in Germany by Professor Andreas Roloff who has been describing the state of vitality of European Trees. He also uses 4 categories – described as

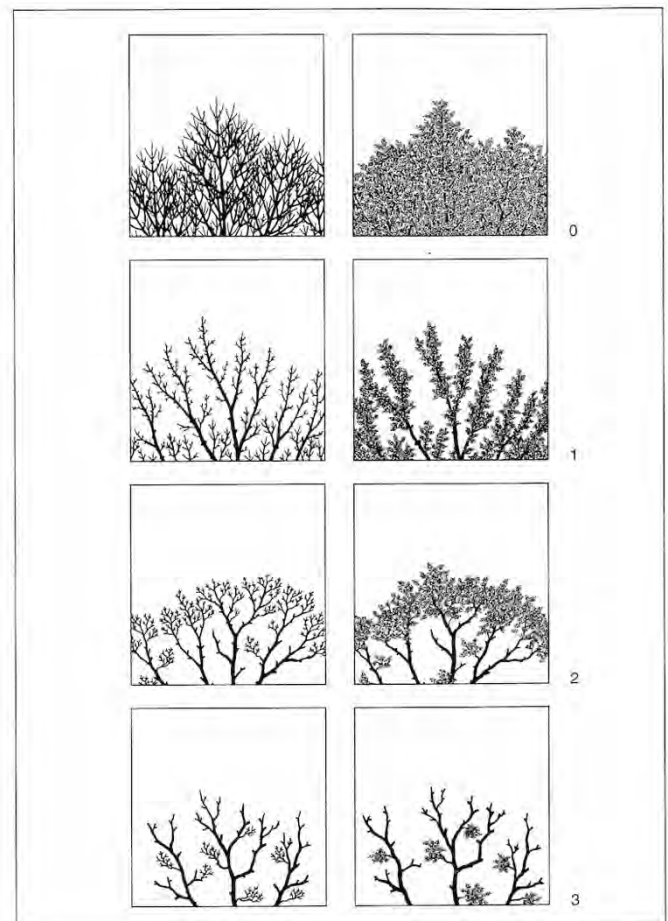
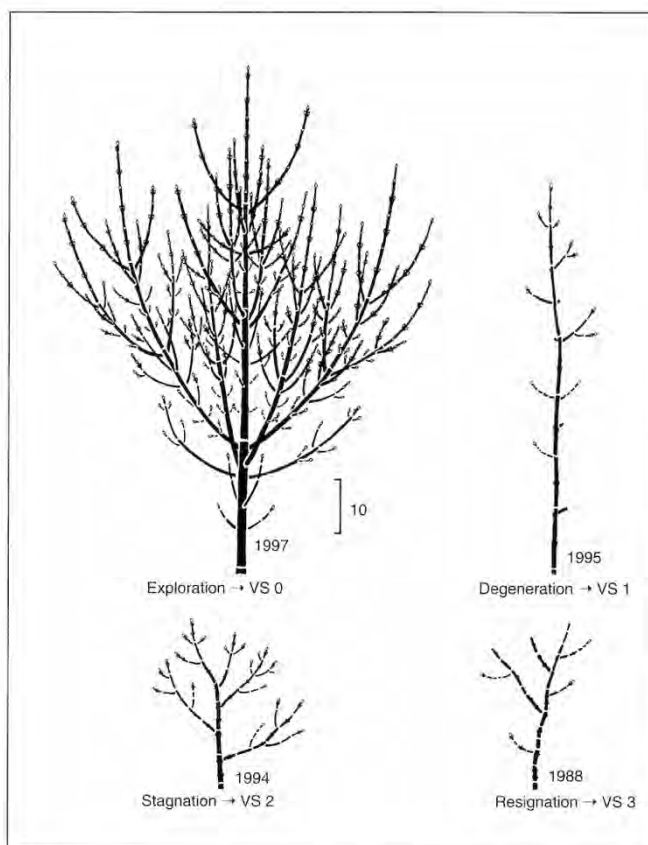
- Vitality Class 0: Healthy vigorous trees showing treetop shoots in the exploration phase: both the main axes and part of the lateral twigs consist of long-shoots. For this reason, a regular net-like branching pattern is developed, which reaches deep into the interior of the crown. The crowns are equally closed and domed, and do not show any greater gap unless a stronger intervention has occurred, such as pruning measures, because such a gap is closed quickly by the intensive ramification. In summer, a dense foliage arises without any greater gap.
- Vitality Class 1: Weakened trees show treetop shoots in the degeneration phase. Thus, spears/"fox tails" are formed, rising above the canopy. The leaves on these spears are dense and grow all around them (at the top of the lateral short-shoots or shortshoot chains). The crowns make a frazzled impression on the outside, and have a fastigiated appearance, because the airspace between the spears is not completely filled by leaves and twigs, and the crown has a spiky outline. Inside the crown, the branching pattern, and hence the foliage, is quite dense. In this vitality class, straight percurrent main axes of the treetop branches are still dominant, but the crowns no longer look as intact as in class 0 because of the spears shooting out of the canopy.
- Vitality Class 2: In obviously less vigorous trees, the treetop shoots begin to build short-shoots in the stagnation phase. The leafless state could be designated as the claw stage, because the short-shoot chains in the outside of the crowns grow longer, are predominant, and stretch claw-like to the light. These short-shoot chains, growing too long, break off in summer in thunderstorms and heavy rains, and strew the forest floor in



declining stands. Under normal circumstances, trees get rid of parts of their unimportant twigs in the inner and lower crown parts in this way. However, if the treetop shoots themselves are declining, the self-pruning of twigs progresses into the outskirts of the crown, and the crowns become thin from the inside outwards. The cause for this occurrence is not premature leaf fall, but broken short-shoot chains, a lack of shoots, and dead buds and twigs. The branching pattern shows a bushy and lumpy accumulation in the periphery of the crown. This accumulation causes summer and winter bushy crown structures and greater gaps. The crown periphery still has hardly any straight percurrent branches.

- Vitality class 3: In considerably damaged or declining trees of the crowns finally fall apart by the breaking off of larger branches and the dieback of whole crown parts. The tree seems to consist only of more or less surplus sub-crowns, dispersed randomly in the airspace and forming whip-like structures. The treetop is often dying back or is already dead, because the treetop shoots grew in the retraction phase.

These 4 vitality classes are shown below for Ash.



The work in Germany and Suffolk complements each other and establishes the ability to be able to assign an ash tree to 1 of 4 categories, which describe the trees current health or vitality. This is a simple and useful method for describing the current state of an Ash's health.

## The Outcome

Using this 4 category framework, allows a tree to be assigned to a category, showing its current state of health, enabling data on the tree to be collected. The suggestion going forward is that these 4 classes are used as described as:

Ash Health Class 1 – 100 – 75% Canopy (Vitality Class 0)

Ash Health Class 2 – 75% -50% Canopy (Vitality Class 1)

Ash Health Class 3 – 50% - 25% Canopy (Vitality Class 2)

Ash Health Class 4 – 25% - 0% Canopy (Vitality Class 3)

**Figure 1: Photos of Dieback of ash trees**



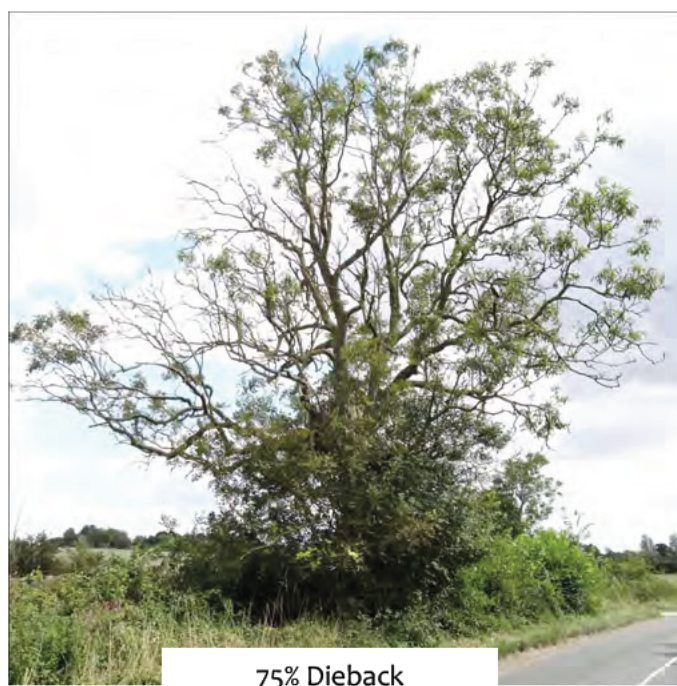
0% Dieback - Healthy Crown



25% Dieback



50% Dieback



75% Dieback



