Arboricultural Impact Assessment Arboricultural Method Statement Tree Protection Plan

> Le Brace Pond Lane Emborough Radstock BA3 4SE

For Dave and Charly Kimber

August 2021



Ref: 21441AIAv01

# **Record Sheet**

| Report title     | Arboricultural Impact Assessment<br>Arboricultural Method Statement<br>Tree Protection Plan |
|------------------|---|
| Site address     | Le Brace<br>Pond Lane<br>Emborough<br>Radstock<br>BA3 4SE                                   |
| Project          | Kennels building and associated works   |
| Clients          | Dave and Charly Kimber  |
| Agent            | Ink Architecture  |
| Author           | Jim Walker MICFor MArborA   |
| Report reference | 21441AIA  |
| Version          | V01   |
| Date of issue    | 25 <sup>th</sup> August 2021  |

Alltree Cutlers Green Chewton Mendip Somerset BA3 4NE

T 01761 241871 E info@alltree.co.uk W alltree.co.uk

# Contents

| Executive Summary  | . 2 |
|--|-----|
| 1. Introduction  | . 3 |
| 1.1. Brief   | . 3 |
| 1.2. Documents provided to Alltree                             | . 3 |
| 1.3. Limitations and inspection notes                          | . 3 |
| 1.4. Data collection   | . 4 |
| 2. Site Location and Description                               | . 5 |
| 3. Arboricultural Impact Assessment                            | . 6 |
| 3.1. Development proposal                                      | . 6 |
| 3.2. Tree removal  | . 6 |
| 3.3. Potential damage to retained trees below ground           | . 7 |
| 3.4. Potential damage to aerial parts during construction work | . 8 |
| 3.5. Future pressure for pruning/removal after the development | . 8 |
| 3.6. Contamination of soil from building materials             | . 8 |
| 4. Tree Protection   | . 8 |
| 5. Legal Constraints and Planning Policy                       | . 9 |
| 6. Arboricultural Method Statement                             | 10  |
| 6.1. Scope   | 10  |
| 6.2. Site location   | 10  |
| 6.3. Contact details   | 10  |
| 6.4. Works programme   | 11  |
| 6.5. Supervision and monitoring                                | 11  |
| 6.6. Arboricultural works                                      | 11  |
| 6.7. Protective fencing  | 12  |
| 6.8. Site access, plant and machinery, site compound           | 13  |
| 6.9. Excavation for realignment of driveway within RPAs        | 13  |
| 6.10. Underground services                                     | 13  |
| 6.11. Soft landscaping, tree planting and maintenance          | 13  |
| 6.12. General precautions                                      | 14  |
| 6.13. Contingency plans  | 15  |
| Bibliography   | 16  |
|  |     |
| Appendix A Tree schedule and schedule of works                 |     |

| Appendix A | Tree schedule and schedule of works                  |
|------------|--|
| Appendix B | Tree Protection Plan - Drawing no. 21441-LB-TPP-SK01 |
| Appendix C | Construction exclusion zone - Site notice example    |

# Executive Summary

- 1. The development proposal involves replacement of existing disused outbuildings with a new kennels building, realignment of existing drive, new parking and turning area, plus installation of a 1.8m mesh fence around the field perimeter.
- 2. Removal of five minor low quality trees and shrubs, plus three beech stems is required to facilitate the new drive access and parking area. In addition, the removal of eight poor quality trees is recommended as part of routine arboricultural management.
- 3. The impact on screening, visual amenity or biodiversity from tree loss will be negligible and adequately mitigated in the short term by replacement planting as part of a soft landscape scheme.
- 4. The impact of the development on the health and amenity of retained trees both on and off the site should be insignificant provided that the recommended tree protection measures are implemented for the duration of the demolition and construction phases.

# 1. Introduction

### 1.1. Brief

- 1.1.1 This report is prepared for Dave and Charly Kimber to provide arboricultural information in relation to a planning application for proposed development at Le Brace, Pond Lane, Emborough, BA3 4SE.
- 1.1.2 The report is undertaken in accordance with BS 5837:2012 Trees in relation to design, demolition and construction Recommendations. It demonstrates that the implications of the proposal on the trees located on and adjacent to the site have been fully considered.
- 1.1.3 The information within this report is supplied in order to:
  - Identify and assess the quality and value of the trees on and adjacent to the site that may be affected by the proposed development.
  - Identify canopy spreads and root protection areas (RPAs) for retained trees and present the information on a Tree Protection Plan (TPP).
  - Evaluate the likely effects of development activities on retained trees, as well as the impact of any tree removal. Provide recommendations to mitigate any adverse impact.
  - Provide a Tree Protection Plan (TPP) showing trees for removal/retention, location of protective fencing and areas requiring additional protective measures.
  - Provide an Arboricultural Method Statement (AMS) detailing specific measures to protect retained trees during the development works.

# 1.2. Documents provided to Alltree

| Document Name     | Prepared by      | Reference no.     |
|-------------------|------------------|-------------------|
| 0265 Planning Set | Ink Architecture | 0265 PL01 to PL06 |

# 1.3. Limitations and inspection notes

- 1.3.1 A site visit was carried out by Jim Walker on 19<sup>th</sup> August 2021.
- 1.3.2 The trees were visually inspected from ground level with the aid of binoculars, mallet and metal probe. No internal decay detection devices were used in assessing stem condition.

- 1.3.3 It should be noted that this survey is not a tree safety inspection and comprehensive long-term management recommendations are not provided. Trees are dynamic, living organisms that may shed branches or fail as part of their natural processes. It is therefore recommended that a detailed health and safety assessment is undertaken upon completion of the project.
- 1.3.4 The findings and recommendations within the report relate to conditions found at the time of inspection and are valid for a period of one year only. Any significant alteration to the site that may affect tree condition (such as excavations, changes in soil levels or drainage patterns) will necessitate a reassessment of the trees and the site.
- 1.3.5 No assessment has been carried out regarding any impact that the existing trees may have on buildings and structures.

# 1.4. Data collection

- 1.4.1 Survey findings are presented in the Tree Schedule (Appendix A) and include:-
  - Designated tree/hedge number
  - Tree species
  - Height in metres
  - Stem diameter in millimetres
  - Root protection area (as a radius from tree stem in metres)
  - Branch spread (to N, S, E and W) in metres
  - Crown clearance (height of periphery of crown spread above ground level) in metres
  - Height in metres of first significant branch and direction of growth
  - Life stage Young (Y), Semi-mature (SM), Early Mature (EM), Mature (M), Over mature (OM), Veteran (V)
  - Physiological condition Good (G), Fair (F), Poor (P), Dead (D)
  - Tree structural condition Good (G), Fair (F), Poor (P)
  - Condition and site notes where this has a bearing on the health or structural condition of the tree
  - Management recommendations and/or work in light of proposed development
  - Estimated remaining contribution in years (<10, 10+, 20+, 40+)
  - Retention category as set down in the cascade chart for tree quality assessment (Section 4.5 and Table 1 of BS 5837:2012)
- 1.4.2 Tree height has been measured with a clinometer and rounded to the nearest half metre. Stem diameter has been measured according to BS 5837:2012 Annex C and rounded to the nearest 10mm.
- 1.4.3 A retention value has been given to each tree based on its condition, quality and future contribution to the site in accordance with BS 5837:2012 Trees in relation to design, demolition and construction Recommendations (see Appendix A, Table 1).

- 1.4.4 Trees falling within categories A, B, or C should be a material consideration within the development process and are given a numbered subcategory (1-3) to reflect their arboricultural, landscape or conservation/cultural value respectively. Category A and B trees represent those trees most worthy of retention and any design should reflect this. Category C trees are of less importance and would generally be retained only where they would not pose a significant constraint on the development. Category U trees are those that would normally be removed in the short term as part of routine arboricultural management and therefore may be excluded from the design/planning process.
- 1.4.5 A nominal RPA for each category A to C tree has been calculated and plotted on the TPP in accordance with Section 4.6 and Annex C and D of BS 5837:2012. This is a notional indication of the extent of root activity. Actual root distribution is unlikely to be symmetrical, being influenced by soil type and depth, the proximity of structures, watercourses and hard surfaces, as well as topography, drainage and ground compaction.
- 1.4.6 The TPP also shows a representation of the crown spread of each tree measured in four cardinal directions.

# 2. Site Location and Description

- 2.1 The site is approximately 0.4 ha and comprises the house and garden of Le Brace, plus an adjoining field with derelict outbuildings.
- 2.3 The property is bounded to the north, south and west by agricultural land. To the east is Pond Lane and a small woodland.
- 2.4 The site is accessed via a narrow tarmac drive between two stone retaining walls. The entrance is dominated by a large ash tree (T1) located immediately outside the site boundary. The tree was not inspected in detail but has early symptoms of ash dieback disease.
- 2.5 The northern boundary comprises overgrown hedgerow remnants of beech and sycamore. The sycamore (G6 and G7) are growing beneath overhead electricity wires and are in very poor condition, having been heavily topped and also damaged by grey squirrels.
- 2.6 A small ornamental thuja (G4), two rhododendrons (G5) and an apple (T8) are growing between the drive and northern boundary. At the western end of the drive are low quality copper beech, Leyland cypress and two decayed sycamore pollards (T9 T13).
- 2.7 Trees in the southeast corner of the garden are generally low to poor quality and include cherries (T14, T17), ash-leaf maple (T15), overmature cherry laurel (G16), plus Leyland cypress, apple, hazel, rowan, birch and damson (G18 T23).

- 2.8 A close grown, linear group of approximately twenty beech stems screens the field from the drive (G25). This was presumably planted as a hedge, but has since been neglected and is now up to 13 metres in height.
- 2.9 The boundary between the field and adjacent woodland is defined by post and wire fencing, overgrown by understorey hazel, thorn, holly and ivy. Trees within the woodland are predominantly ash, with occasional alder (T30 T33).

# 3. Arboricultural Impact Assessment

# 3.1. Development proposal

The development proposal involves replacement of existing disused outbuildings with a new kennels building, realignment of existing drive, new parking and turning area, plus installation of a 1.8m mesh fence around the field perimeter.

# 3.2. Tree removal

| Ref. no.                | Species                              | Stem<br>dia.<br>(mm) | B.S.<br>Cat.            | Reason for removal                   | Impact on visual<br>amenity<br>None/Low/<br>Moderate/High |  |  |  |  |  |  |  |  |  |
|-------------------------|--------------------------------------|----------------------|-------------------------|--------------------------------------|---|--|--|--|--|--|--|--|--|--|
| Tree remova             | ee removal to facilitate development |                      |                         |                                      |   |  |  |  |  |  |  |  |  |  |
| T4                      | Thuja<br>'Zebrina'                   | 75                   | 75 C2 Drive realignment |                                      | None  |  |  |  |  |  |  |  |  |  |
| G5                      | Rhododendron                         | 75                   | C2                      | Drive realignment                    | None  |  |  |  |  |  |  |  |  |  |
| T8                      | Apple                                | 170                  | C2                      | Drive realignment                    | None  |  |  |  |  |  |  |  |  |  |
| T24                     | Bay laurel                           | 150                  | C2                      | New access for parking area          | None  |  |  |  |  |  |  |  |  |  |
| Part G25<br>(3 x stems) | Beech                                | 300                  | B2                      | New access for parking area          | Low   |  |  |  |  |  |  |  |  |  |
| Trees recom             | mended for remo                      | oval as p            | oart of ro              | outine estate management             |   |  |  |  |  |  |  |  |  |  |
| G6<br>(x2)              | Sycamore                             | 100                  | U                       | Very poor. Extensive squirrel damage | None  |  |  |  |  |  |  |  |  |  |
| G7<br>(x2)              | Sycamore                             | 350                  | U                       | Very poor. Extensive squirrel damage | None  |  |  |  |  |  |  |  |  |  |
| T14                     | Cherry                               | 180                  | U                       | Moribund                             | None  |  |  |  |  |  |  |  |  |  |
| T17                     | Cherry                               | 200                  | U                       | Tree in decline                      | Low   |  |  |  |  |  |  |  |  |  |
| T18                     | Apple                                | 200                  | U                       | Very poor                            | Low   |  |  |  |  |  |  |  |  |  |
| T26                     | Ash                                  | T26                  | U                       | Ash dieback disease                  | Low   |  |  |  |  |  |  |  |  |  |

- 3.2.1 Removal of four minor trees and shrubs (T4, G5, T8) is necessary for the new drive access. This will have no impact on visual amenity or screening of the site.
- 3.2.2 A bay laurel (T24) and a maximum of three beech stems from G25 will be removed to facilitate the car parking area. This work will have a low impact on visual amenity and screening which should be adequately mitigated by replacement tree and shrub planting as part of a soft landscape scheme.
- 3.2.3 Removal of the poor quality sycamore along the northern boundary will provide opportunities for replacement planting to improve long-term screening of the site.
- 3.2.4 Removal of two poor quality cherries (T14, T17) and one apple (T18) is recommended as part of routine management due to their poor condition.
- 3.2.5 The large ash tree (T1) immediately outside the site is infected with ash dieback disease. It has a short life expectancy and is likely to require removal within five years. It has therefore been disregarded from this impact assessment. One ash tree growing within the hedgeline (T26) has advanced ash dieback disease and should be removed as part of routine arboricultural management.

# 3.3. Potential damage to retained trees below ground

- 3.3.1 Excavation for realignment of the driveway has potential to impact the RPAs of G3, T9, T10 and T11. Actual root morphology on this aspect is likely to be restricted by the existing retaining wall and the percentage of RPAs affected is estimated to be between 5% and 15%. Provided that excavation within the RPAs is undertaken manually under supervision of an arboriculturist, no long-term impact on the health or viability of these trees is anticipated.
- 3.3.2 All other retained trees on site should remain unaffected by the development provided that temporary tree protection fencing is installed and maintained as specified in the Arboricultural Method Statement (AMS) and Tree Protection Plan (TPP).
- 3.3.3 Installation for a new boundary fence should not have a negative impact on tree health provided that holes are excavated manually and a dry mix used for securing the posts.
- 3.3.4 The location and route of any new underground services has not been confirmed. These should be designed to avoid the RPAs of retained trees.
- 3.3.5 If encroachment into RPAs is unavoidable, alternative methods of excavation/ installation may be required, such as hand digging or thrust boring. Advice should be sought from the project arboriculturist and approval by the Local Planning Authority (LPA) may be necessary (refer to NJUG Vol 4 2007 Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees).

### 3.4. Potential damage to aerial parts during construction work

- 3.4.1 Minor crown lifting work will be required to ensure adequate clearance over the new building and access drive.
- 3.4.2 Pruning of understorey shrubs will be necessary along the field boundary to facilitate installation of a new fence.
- 3.4.3 The level of pruning is not considered significant. No adverse impact on health or amenity value is anticipated provided that the specified pruning work is carried out in accordance with BS 3998:2010 Treework Recommendations and prior to commencement of any other site operations.

### 3.5. Future pressure for pruning/removal after the development

- 3.5.1 Retained trees are at sufficient distance from the proposed building that no long-term pressure for pruning or removal is anticipated.
- 3.5.2 Seasonal leaf litter may create a minor problem on surfaces that should be addressed as part of routine property maintenance.

### 3.6. Contamination of soil from building materials

- 3.6.1 Materials such as concrete, cement, oil, fuel, bitumen and vehicle washings are toxic to tree roots and may have serious implications for tree health if allowed to leach into the soil.
- 3.6.2 Wherever possible, materials must not be stored or discharged within RPAs or 10m of a tree stem (whichever is greater). Where there is a risk of contamination of RPAs suitable precautionary and pollution control measures must be put in place. This includes use of impermeable membranes, bunds and spill kits at appropriate locations to effectively control and clear up accidental spillage or pollution incidents.

# 4. Tree Protection

- 4.1 The majority of tree roots generally occur in the top metre of soil and may extend well beyond the canopy spread. The principal causes of damage to trees during development works are from root severance during excavation work, soil compaction from site vehicles and ground level changes. It is therefore essential that suitable tree protection is installed before any equipment, machinery or materials are brought onto the site and maintained for the duration of the development.
- 4.2 The tree protection fencing should be erected at the locations identified on the tree protection plan (Appendix B) and in accordance with BS 5837:2012 paragraph 6.2.2.3 and Fig 3. This is defined as "heras panels", supported by stabiliser struts, attached to a base plate and secured with ground pins.

- 4.3 Once erected, the barriers and construction exclusion zone (CEZ) within should be regarded as sacrosanct and should not be removed or altered without consent from the LPA or project arboriculturist.
- 4.4 The protective fencing should remain in place until all excavation and hard landscaping works have been completed and equipment, machinery and surplus materials have been removed from the site. The fencing can then be removed with agreement of the arboricultural consultant to enable completion of any soft landscaping works.

# 5. Legal Constraints and Planning Policy

- 5.1 It is understood that the property is not within a conservation area and there are no tree preservation orders on the site. Confirmation should be obtained from the LPA prior to carrying out any tree works not approved as part of a planning application.
- 5.2 All tree work should be undertaken by a suitably qualified and experienced arboricultural contractor in accordance with BS 3998:2010 Treework Recommendations.
- 5.3 Attention is drawn to the Wildlife and Countryside Act 1981 (as amended), Countryside and Rights of Way Act 2000, and The Conservation of Habitats and Species Regulations 2017. These acts and regulations provide statutory protection for listed species of flora and fauna. Of particular relevance to tree work is the comprehensive protection afforded to birds and bats. This has implications for timing of works, as well as the requirement for surveys and licences in certain cases.
- 5.4 National and local planning policies relevant to this report include:
  - National Planning Policy Framework Feb 2019: 15. Conserving and enhancing the natural environment
  - Mendip District Council Local Plan Part I: Strategy and Policies (December 2014) DP1: Local Identity and Distinctiveness

# 6. Arboricultural Method Statement

### 6.1. Scope

- 6.1.1 This Method Statement outlines measures for protection of retained trees during the course of the development. It is intended to be a standalone document for use during the implementation of the proposed works.
- 6.1.2 Copies of the Arboricultural Method Statement document will be available for inspection on site and will form the basis of the management of all works relating to the trees on the site following commencement of the project.

### 6.2. Site location

Le Brace Pond Lane Emborough Radstock BA3 4SE

### 6.3. Contact details

- 6.3.1 <u>Applicants</u> Dave and Charly Kimber
- 6.3.2 <u>Agent</u>
   Simon Hill Ink Architecture
   6 Fair Close, Norton St Philip, Bath, BA2 7LD
   Email: simon@ink-architecture.co.uk Tel: 07795 035725
- 6.3.3 <u>Main contractor</u> To be confirmed
- 6.3.4 <u>Arboricultural consultant</u> Alltree Cutlers Green, Chewton Mendip, Somerset, BA3 4NE Email: info@alltree.co.uk Tel: 01761 241871

#### 6.3.5 <u>Local planning authority</u> Mendip District Council Cannards Grave Road, Shepton Mallet, BA4 5BT Email: bo.walsh@mendip.gov.uk Tel: 0300 303 8588

# 6.4. Works programme

| Orde | Order of works requiring arboricultural supervision or advice  |  |  |  |  |  |  |  |  |  |
|------|--|--|--|--|--|--|--|--|--|--|
| 1    | Pre-commencement site meeting (sec. 6.5)   |  |  |  |  |  |  |  |  |  |
| 2    | Arboricultural works (sec. 6.6)  |  |  |  |  |  |  |  |  |  |
| 3    | Installation of tree protection fencing (sec. 6.7) in accordance with tree protection plan (TPP) drawing no. 21441-LB-TPP-SK01 |  |  |  |  |  |  |  |  |  |
| 4    | Excavation for realignment of driveway within Root Protection Areas (RPAs) (sec. 6.9)  |  |  |  |  |  |  |  |  |  |
| 5    | Removal of tree protection barriers (sec. 6.7)   |  |  |  |  |  |  |  |  |  |
| 6    | Soft landscaping (sec. 6.10)   |  |  |  |  |  |  |  |  |  |
| 7    | Site inspection and sign off (sec. 6.5)  |  |  |  |  |  |  |  |  |  |

# 6.5. Supervision and monitoring

- 6.5.1 The appointed arboricultural consultant will be responsible for the supervision and monitoring of all operations relating to protection of the trees on site.
- 6.5.2 A pre-commencement meeting will be arranged with the project team to agree site logistics and ensure that all tree protection measures are understood. The site manager will be responsible for ensuring that these are implemented and adhered to for the duration of the development.
- 6.5.3 A record of site visits will be completed by the arboricultural consultant using a standard proforma. Copies of each site visit report will be forwarded to the site agent, client and Local Planning Authority (LPA) if required.
- 6.5.4 N.B. It is the responsibility of the main contractor to give the appointed arboriculturist reasonable notice of activities requiring advice or site supervision.

# 6.6. Arboricultural works

- 6.6.1 The schedule of works in Appendix A sets out recommended felling and remedial work.
- 6.6.2 All tree work will be carried out before commencement of any other site operations including the erection of protective barriers.
- 6.6.3 All works will be carried out in accordance with BS 3998:2010 'Tree work Recommendations'.
- 6.6.4 All tree work will be undertaken with due regard to the Wildlife and Countryside Act 1981 (as amended), Countryside and Rights of Way Act 2000 and The Conservation of Habitats and Species Regulations 2017.

### 6.7. Protective fencing

- 6.7.1 Before any equipment or materials are brought onto the site, protective barriers will be erected in locations identified on the TPP (Appendix B).
- 6.7.2 The protective barriers will be erected in accordance with BS 5837:2012 Paragraph 6.2.2.3 and Fig 3 (see below). This will comprise "heras panels", supported by stabiliser struts, attached to a base plate and secured with ground pins.



Specification for protective barrier taken from Fig 3 a) BS 5837:2012 Trees in relation to design, demolition and construction. Recommendations

- 6.7.3 All-weather exclusion site notices will be fixed to the fencing panels (see Appendix C).
- 6.7.4 Once the fencing is in place the arboricultural consultant will undertake a site inspection and produce a site report as outlined in section 6.5.3.
- 6.7.5 With the exception of works detailed in this method statement and/or approved by the LPA, no excavation, construction or storage of materials will take place within the exclusion zone (as defined by the protective fencing) for the duration of the development works.
- 6.7.6 Once the protective barriers have been erected, no panels shall be temporarily removed without prior consent from the LPA tree officer and supervision of the arboricultural consultant.
- 6.7.7 The protective fencing will remain in place until all construction works have been completed and equipment and surplus materials have been removed from the site. The fencing will be then removed with agreement of the arboricultural consultant to enable completion of any soft landscaping works.

#### 6.8. Site access, plant and machinery, site compound

- 6.8.1 Access for vehicles will be via the existing site access on Pond Lane.
- 6.8.2 Storage of materials, parking and welfare facilities will be located on existing hardstanding outside the RPAs of trees and hedges.

#### 6.9. Excavation for realignment of driveway within RPAs

- 6.9.1 All excavation within RPAs will be carried out under supervision of the project arboriculturist.
- 6.9.2 The inner line of the excavation for the drive realignment will be set out and marked with hi-viz paint.
- 6.9.3 Excavation will be undertaken using hand tools or air spades only. If ground conditions are suitable, air spades are the most effective tool for removing soil around roots with minimal damage. Where this is not possible hand forks and trowels will be used close to roots. Great care will be taken to avoid bark damage to retained roots.
- 6.9.4 Roots under 25mm will be pruned back to the face of the excavation using clean pruning saws or secateurs. Should roots be encountered over this diameter, the arboriculturist will determine whether they may be pruned or retained. The exposed roots will be covered with damp hessian and protected from direct sunlight to avoid desiccation.
- 6.9.5 When the arboriculturist is satisfied that there is no further root activity, excavation may proceed using a using a lightweight excavator and toothless bucket.
- 6.9.6 A pollution control geotextile membrane will be laid over the excavated face to prevent contamination of soil and roots from cement.

#### 6.10. Underground services

All new underground services, including soakaways, will be connected to existing or located outside RPAs of retained trees.

#### 6.11. Soft landscaping, tree planting and maintenance

- 6.11.1 All soft landscaping will be undertaken after completion of the main construction phase.
- 6.11.2 All topsoil, seeding and/or turfing work within RPAs will be undertaken manually. No vehicles or plant shall enter RPAs.
- 6.11.3 New trees will be planted during the first available planting season after completion of the construction phase.
- 6.11.4 Trees will be planted and maintained in accordance with BS 8545:2014 Trees: from nursery to independence in the landscape Recommendations and Section 10.2 of the National Plant Specification 'Handling and Establishing Landscape Plants' (HTA).

- 6.11.5 Tree pits and planting areas will be prepared manually and protected from soil compaction.
- 6.11.6 Tree pits will be square with minimum diameter 25% greater than that of the root ball and 100mm deeper. Pit base and sides will be manually broken up if glazed.
- 6.11.7 Rootballs will be watered to saturation prior to planting and the trees positioned with the top of the root ball at existing soil level.
- 6.11.8 Trees will be secured with double stakes and flexible strapping.
- 6.11.9 New hedging will be 60-80cm (ht), planted in a double staggered row at a minimum of four plants per metre, with canes and spiral rabbit guards.
- 6.11.10 Trees and hedging will be mulched to a depth of 75mm in order to maintain a one metre radius weed-free zone and to conserve moisture.
- 6.11.11 Trees and hedging will be inspected regularly to ensure that a one metre radius weedfree area is maintained and the trees are securely anchored for a period of two years. Stakes/ties shall be removed as appropriate when deemed to be no longer necessary.
- 6.11.12 During the first two growing seasons, trees and hedging will be irrigated to field capacity every week in periods of dry weather. Should any tree fail, it will be replaced with a similar size and species in the first available planting season.

#### 6.12. General precautions

- 6.12.1 Protective fencing must not be removed or altered without prior consultation with either the LPA or the project arboriculturist.
- 6.12.2 Other than supervised works specified in this Arboricultural Method Statement no unauthorised access or excavation will take place within RPAs.
- 6.12.3 Materials such as concrete, cement, oil, fuel, bitumen and vehicle washings are toxic to tree roots and may have serious implications for tree health if allowed to leach into the soil. Wherever possible they must not be stored or discharged close to trees. Where there is a risk of contamination of RPAs suitable precautionary and pollution control measures must be put in place. This includes use of impermeable membranes, bunds and spill kits at appropriate locations to effectively control and clear up accidental spillage or pollution incidents.
- 6.12.4 Builder's sand, which contains salt, is toxic to tree roots and must not be used to backfill excavations close to trees. Sharp sand should be used.
- 6.12.5 No notice boards, cables or other services will be attached to any tree.
- 6.12.6 Cranes, tippers and truck-mounted loaders must be positioned away from tree canopies to avoid damage to aerial parts.
- 6.12.7 No fires will be lit on site of any kind.

- 6.12.9 Any physical damage caused to a tree must be reported to the site agent immediately.
- 6.12.10 Damage to protective fencing must be reported to the site agent immediately to ensure prompt repair.

#### 6.13. Contingency plans

- 6.13.1 In the event of any incidents occurring that may adversely affect tree health, the site agent shall inform the arboricultural consultant at the earliest opportunity and not more than one working day following the incident.
- 6.13.2 The arboricultural consultant will visit the site to inspect and assess the circumstances and make any appropriate recommendations. The LPA tree officer will be informed and any remedial action will be submitted for approval.
- 6.13.3 Incidents that may merit such contingency plans include:
  - Accidental/unauthorised damage to the limbs, roots or trunk of trees
  - The discharge/spillage of toxins/waste within or adjacent to a Root Protection Area
  - Unauthorised breaching of a tree protective barrier or Construction Exclusion Zone

# Bibliography

British Standards Institution, (2010). BS 3998:2010 Tree work - Recommendations. London

British Standards Institution, (2012). BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations. London

British Standards Institution, (2014). BS 8545:2014 Trees: from nursery to independence in the landscape – Recommendations. London

Horticultural Trades Association, (2002). *National Plant Specification General Glossary Section 10.2 - Handling and Establishing Landscape Plants*. HTA.

Lonsdale, D., 1999. Principles of Tree Hazard Assessment and Management. London. TSO

Mattheck, C., 2007. Updated Field Guide for Visual Tree Assessment. Karlsruhe GmbH

Mattheck, C. Bethge, K. and Weber, K., (2015). *The Body Language of Trees: Encyclopaedia of Visual Tree Assessment*. Karlsruhe GmbH

NJUG, (2007). *Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees. Volume 4, issue 2.* London

Roberts, J. Jackson, N. and Smith, M., (2006). *Tree Roots in the Built Environment. Research for Amenity Trees No. 8.* HMSO, London

Stokes. J., & Jones. G. (2019). *Ash dieback: an Action Plan Toolkit.* Tree Council Publication. Tree Council, London.

Weber, K. and Mattheck, C., 2003. Manual of Wood Decay in Trees. Arboricultural Association

# Appendix A

Tree schedule and schedule of works

Table 1 Cascade Chart for tree quality assessment taken from BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations.

| oup number | Species and Specie |      | imeter (mm)<br>adius (m) |        | ິຍ<br>Branch spread<br>radius (m) |      |     |     |        | Life stage<br>Physiological<br>condition | al condition       | Condition and site notes | Management recommendations<br>&<br>Schedule of works in light of | ed remaining<br>Jution (Yrs.)   | on category   |                      |          |
|------------|--|------|--------------------------|--------|-----------------------------------|------|-----|-----|--------|--|--------------------|--------------------------|--|---|---|----------------------|----------|
| Tree / gro |  | Hei  | Stem dia                 | RPA ra | N                                 | s    | E   | w   | Canopy | First signif<br>height (m                | height (m)<br>Life |                          | Structura  |   | proposed development                                    | Estimate<br>contribu | Retentic |
| 1          | Common ash   | 16.0 | 900<br>est.              | 10.8   | 8.0                               | 10.0 | 7.0 | 9.0 | 5.0    | 7.0 S                                    | OM                 | Р                        | F  | Off site. No access to inspect. Ivy.<br>Early ash dieback disease (AHC1).<br>Shed primary branch                            | -   | <10                  | U        |
| 2          | Common beech   | 13.0 | 350<br>m/s<br>calc.      | 4.2    | 7.0                               | 6.0  | 6.0 | 4.0 | 1.5    | 2.0 S                                    | SM                 | G                        | F  | Multi-stem hedge remnant.<br>Squirrel damage  | Crown lift to 4m on south aspect                        | 10+                  | C2       |
| G3         | Common beech   | 12.0 | 300                      | 3.6    | 6.0                               | 6.0  | 4.0 | 7.0 | 1.0    | 2.5 S                                    | SM                 | G                        | F  | Two trees. Multi-stem hedge<br>remnants. Ivy. Squirrel damage   | Crown lift to 4m on south aspect                        | 10+                  | C2       |
| 4          | Western red<br>cedar 'Zebrina'   | 3.0  | 75                       | 0.9    | 2.0                               | 2.0  | 2.0 | 2.0 | 0.0    | -  | SM                 | G                        | F  | -   | Remove to facilitate drive realignment                  | 10+                  | C2       |
| G5         | Rhododendron   | 4.0  | 75                       | 0.9    | 2.0                               | 1.0  | 2.0 | 2.0 | 0.0    | -  | SM                 | G                        | F  | Two ornamental shrubs   | Remove to facilitate drive realignment                  | 10+                  | C2       |
| G6         | Sycamore   | 4.5  | 100                      | -      | 2.0                               | 3.0  | 3.0 | 3.0 | 1.0    | 1.0 S                                    | SM                 | Р                        | Р  | Three trees topped at 3m due to extensive squirrel damage   | Remove and replant boundary with native hedge and trees | <10                  | U        |
| G7         | Sycamore   | 6.0  | 350                      | -      | 3.0                               | 5.0  | 3.0 | 3.0 | 1.0    | 1.0 S                                    | SM                 | Р                        | Р  | Two tree topped at 3m due to<br>utility wires. Extensive squirrel<br>damage. Broken suspended<br>limbs. Very poor condition | Remove and replant boundary with native hedge and trees | <10                  | U        |

| roup number | under<br>Do<br>Species |      | eight (m)<br>iameter (mm) | ight (m)<br>ameter (mm) | ameter (mm) | liameter (mm) | diameter (mm) | liameter (mm) | iameter (mm) | ameter (mm)                         | ameter (mm) | iameter (mm)          | radius (m) | В  | ranch<br>radiu                            | spre<br>s (m)       | ad      | / Height (m) | ificant branch<br>n) & direction | e stage | siological<br>ndition | ral condition | Condition and site notes | Management recommendations<br>&<br>Schedule of works in light of | ed remaining<br>oution (Yrs.) | on category |
|-------------|------------------------|------|---------------------------|-------------------------|-------------|---------------|---------------|---------------|--------------|-------------------------------------|-------------|-----------------------|------------|--|---|---------------------|---------|--------------|----------------------------------|---------|-----------------------|---------------|--------------------------|--|-------------------------------|-------------|
| Tree / g    |                        | He   | Stem dia                  | RPA                     | N           | S             | E             | w             | Canopy       | Canopy<br>First signif<br>height (m |             | Phys<br>co<br>structu |            |  | proposed development                      | Estimato<br>contrik | Retenti |              |                                  |         |                       |               |                          |  |                               |             |
| 8           | Apple                  | 10.0 | 170<br>m/s<br>calc.       | 2.0                     | 3.0         | 3.0           | 3.0           | 2.0           | 1.5          | 1.0 E                               | EM          | F                     | F          | Multi-stem   | Remove to facilitate drive<br>realignment | 10+                 | C2      |              |                                  |         |                       |               |                          |  |                               |             |
| 9           | Copper beech           | 11.0 | 400                       | 4.8                     | 5.0         | 6.0           | 7.0           | 3.0           | 1.5          | 1.0 S                               | SM          | F                     | F          | Extensive squirrel damage. Tree<br>house   | Crown lift to 5m over drive               | 10+                 | C2      |              |                                  |         |                       |               |                          |  |                               |             |
| 10          | Copper beech           | 12.0 | 450                       | 5.4                     | 5.0         | 5.0           | 3.0           | 2.0           | 1.0          | 1.5 S                               | SM          | F                     | F          | Ivy. Squirrel damage   | Crown lift to 5m over drive               | 10+                 | C2      |              |                                  |         |                       |               |                          |  |                               |             |
| 11          | Leyland cypress        | 14.0 | 450                       | 5.4                     | 3.0         | 4.0           | 3.0           | 2.0           | 0.0          | -                                   | EM          | F                     | F          | Exposed roots on south aspect.<br>Ivy  | Crown lift to 5m over drive               | 10+                 | C2      |              |                                  |         |                       |               |                          |  |                               |             |
| 12          | Sycamore               | 7.0  | 750                       | -                       | 3.0         | 3.0           | 3.0           | 3.0           | 2.0          | 2.0 S                               | OM          | Р                     | Р          | Decayed/hollow monolith topped<br>at 4m. Squirrel damage. Habitat<br>value   | Remove all soft growth back to stem       | <10                 | U       |              |                                  |         |                       |               |                          |  |                               |             |
| 13          | Sycamore               | 6.0  | 600                       | -                       | 2.0         | 2.0           | 1.0           | 3.0           | 2.0          | 2.5 W                               | ОМ          | Р                     | Ρ          | Decayed ivy clad stem topped at<br>4m. No access to inspect in detail.<br>Squirrel damage. Broken<br>suspended limbs | -   | <10                 | U       |              |                                  |         |                       |               |                          |  |                               |             |
| 14          | Cherry                 | 4.0  | 180                       | -                       | 2.0         | 3.0           | 2.0           | 2.0           | 1.5          | 1.0 N                               | SM          | Р                     | Р          | Moribund   | Fell                                      | <10                 | U       |              |                                  |         |                       |               |                          |  |                               |             |
| 15          | Ash-leaved<br>maple    | 11.0 | 300                       | 3.6                     | 6.0         | 5.0           | 5.0           | 5.0           | 1.8          | 1.2 W                               | EM          | F                     | F          | -  | Crown lift to 3m                          | 10+                 | C1      |              |                                  |         |                       |               |                          |  |                               |             |

Alltree, Cutlers Green, Chewton Mendip, Somerset, BA3 4NE

Survey date: 19<sup>th</sup> August 2021 Surveyor: Jim Walker MICFor MArborA Ref: 21441v01 Page 2

| oup number | ight (m)<br>ameter (mm) |      | ameter (mm)<br>radius (m) |       | ິຍ<br>Branch spread<br>radius (m) |     |     |     |        | ficant branch<br>1) & direction | e stage | iological<br>ndition | al condition | Condition and site notes  | Management recommendations<br>&<br>Schedule of works in light of | ed remaining<br>bution (Yrs.) | on category |
|------------|-------------------------|------|---------------------------|-------|-----------------------------------|-----|-----|-----|--------|---------------------------------|---------|----------------------|--------------|---|--|-------------------------------|-------------|
| Tree / gr  |                         | Hei  | Stem dia                  | RPA r | N                                 | s   | E   | w   | Canopy | First signifiheight (m)         |         | Life<br>Phys<br>cor  |              |   | proposed development   |                               | Retenti     |
| G16        | Cherry laurel           | 10.0 | 200<br>av.                | 2.4   | 6.0                               | 6.0 | 6.0 | 5.0 | 0.0    | -                               | М       | G                    | F            | Two multi-stem groups<br>overhanging site. Potential<br>screening | Coppice and manage regrowth at approximately 2m-3m height        | 10+                           | C2          |
| 17         | Kanzan cherry           | 8.0  | 300                       | -     | 6.0                               | 4.0 | 3.0 | 4.0 | 2.0    | 2.5 N                           | ОМ      | Р                    | Р            | Crown dieback. Major dead<br>wood. Tree in decline                | Fell   | <10                           | U           |
| 18         | Apple                   | 8.0  | 200                       | -     | 2.0                               | 2.0 | 2.0 | 2.0 | 2.0    | 1.5 N                           | М       | Р                    | Р            | Poor condition  | Fell   | <10                           | U           |
| G19        | Leyland cypress         | 13.0 | 450                       | 5.4   | 5.0                               | 5.0 | 5.0 | 4.0 | 3.0    | 1.0 E                           | м       | F                    | F            | Two trees topped at 8m  | -  | 10+                           | C2          |
| G20        | Rowan<br>Hazel          | 8.0  | 200                       | 2.4   | 1.0                               | 3.0 | 4.0 | 3.0 | 0.0    | -                               | EM      | F                    | F            | Suppressed by G16. Overhanging site to east                       | Prune back and crown lift to 5m<br>over site                     | 10+                           | C2          |
| 21         | Silver birch            | 10.0 | 280                       | 3.4   | 2.0                               | 3.0 | 3.0 | 3.0 | 1.0    | 1.0 S                           | SM      | F                    | G            | -   | -  | 10+                           | C1          |
| 22         | Cherry                  | 10.0 | 300                       | 3.6   | 2.0                               | 4.0 | 3.0 | 4.0 | 1.5    | 1.2 E                           | SM      | G                    | G            | Minor dead wood   | -  | 10+                           | C1          |
| 23         | Damson                  | 8.0  | 180                       | 2.2   | 2.0                               | 3.0 | 3.0 | 3.0 | 1.0    | 1.0 E                           | SM      | F                    | F            | Phelinus sp. fruit bodies   | -  | 10+                           | C1          |

Alltree, Cutlers Green, Chewton Mendip, Somerset, BA3 4NE

Survey date: 19<sup>th</sup> August 2021 Surveyor: Jim Walker MICFor MArborA Ref: 21441v01 Page 3

| oup number | sbecies ameter (mm)                      |      | eight (m)<br>ameter (mm)<br>radius (m) |       | ြေ Branch spread<br>radius (m) |     |     |     | Height (m) | gnificant branch<br>(m) & direction | e stage            | iological<br>ndition | al condition | Condition and site notes   | Management recommendations<br>&<br>Schedule of works in light of  | ed remaining<br>bution (Yrs.) | on category |
|------------|--|------|--|-------|--------------------------------|-----|-----|-----|------------|-------------------------------------|--------------------|----------------------|--------------|--|---|-------------------------------|-------------|
| Tree / gr  |  | Hei  | Stem dia                               | RPA r | N                              | s   | E   | w   | Canopy     | First signi<br>height (m            | height (m)<br>Life |                      | Structur     |  | proposed development  | Estimate<br>contrib           | Retenti     |
| 24         | Bay laurel                               | 5.0  | 150<br>m/s<br>calc.                    | 1.8   | 1.0                            | 3.0 | 2.0 | 3.0 | 0.0        | -                                   | EM                 | G                    | F            | Multi-stem   | Remove to facilitate development  | 10+                           | C2          |
| G25        | Common beech                             | 13.0 | 300<br>av.                             | 3.6   | 6.0                            | 8.0 | 6.0 | 6.0 | 1.0        | 1.5 N                               | SM                 | G                    | F            | Linear group of approx. 20 stems.<br>Overgrown/unmanaged<br>hedgerow | Remove three stems at western<br>end of group to facilitate<br>development<br>Crown lift to 4m over drive | 20+                           | B2          |
| G26        | Common ash                               | 15.0 | 350                                    | -     | 5.0                            | 5.0 | 5.0 | 5.0 | 5.0        | 5.0 N                               | SM                 | Р                    | F            | Two stems. Ash dieback disease<br>(AHC2)                             | Fell  | <10                           | U           |
| 27         | Common beech                             | 10.0 | 200<br>m/s<br>calc.                    | 2.4   | 4.0                            | 2.0 | 3.0 | 3.0 | 1.0        | 1.0 N                               | SM                 | F                    | F            | Multi-stem   | -   | 10+                           | C2          |
| 28         | Common holly                             | 6.0  | 350                                    | 4.2   | 2.0                            | 4.0 | 2.0 | 3.0 | 0.0        | -                                   | EM                 | Р                    | Р            | Dense ivy  | -   | 10+                           | C2          |
| G29        | Hawthorn<br>Hazel<br>Holly<br>Blackthorn | 10.0 | 250                                    | 3.0   | 3.0                            | 3.0 | 3.0 | 3.0 | 0.0        | -                                   | М                  | F                    | F            | Dense ivy  | Prune back to boundary fence  | 10+                           | C2          |
| 30         | Common ash                               | 17.0 | 550<br>est.                            | -     | 7.0                            | 2.0 | 6.0 | 3.0 | 2.5        | 5.0 N                               | EM                 | Р                    | P            | Off site. No access to inspect. Ash dieback disease (AHC3)           | -   | <10                           | U           |

| roup number | Species      | ight (m) | ameter (mm) | radius (m) | В   | ranch<br>radiu | spre<br>s (m) | ad<br>) | y Height (m) | gnificant branch<br>(m) & direction | fe stage | Life stage<br>Physiological<br>condition |         | Condition and site notes  | Management recommendations<br>&<br>Schedule of works in light of | ted remaining<br>ibution (Yrs.) | tion category |
|-------------|--------------|----------|-------------|------------|-----|----------------|---------------|---------|--------------|-------------------------------------|----------|--|---------|---|--|---------------------------------|---------------|
| Tree / g    |              | He       | Stem di     | RPA        | N   | s              | E             | w       | Canop        | First sign<br>height (r             | 5        | Phy<br>co                                | Structu |   | proposed development   | Estimat<br>contril              | Retent        |
| 31          | Common alder | 18.0     | 500<br>est. | 6.0        | 4.0 | 3.0            | 3.0           | 3.0     | 5.0          | 5.0 N                               | EM       | G  | G       | Off site. No access to inspect                                      | -  | 10+                             | C2            |
| 32          | Common ash   | 17.0     | 500<br>est. | -          | 4.0 | 4.0            | 4.0           | 4.0     | 4.0          | 4.0 N                               | EM       | F  | F       | Off site. No access to inspect.<br>Early ash dieback disease (AHC1) | -  | <10                             | U             |
| 33          | Common ash   | 17.0     | 600<br>est. | -          | 5.0 | 5.0            | 4.0           | 5.0     | 1.0          | 2.0 N                               | EM       | F  | F       | Off site. No access to inspect.<br>Early ash dieback disease (AHC1) | Crown lift to 3m over site                                       | <10                             | U             |

Survey date: 19<sup>th</sup> August 2021 Surveyor: Jim Walker MICFor MArborA Ref: 21441v01 Page 5

# Key to Schedule

| Height (m)                       |                      | Height in metr   | leight in metres measured with a clinometer   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------|----------------------|--|---|---|--|--|--|--|--|--|--|--|--|--|--|--|
| Stem Diamet                      | er (mm)              | Stem diameter  | (mm) measured at 1.5 metres or immediatel   | y above root flare for multi stem trees and rounded to nearest 10mm.                    |  |  |  |  |  |  |  |  |  |  |  |  |
| m/s calc.                        |                      | Trees with mo  | re than one stem are given a calculated comb  | ined stem diameter (mm) to determine the RPA in accordance with BS 5827:2012 sec. 4.6.1 |  |  |  |  |  |  |  |  |  |  |  |  |
| est.                             |                      | Estimated dim  | ension for inaccessible/off site trees  |   |  |  |  |  |  |  |  |  |  |  |  |  |
| RPA Radius (                     | m)                   | Root Protectio   | n Area as a radius from tree stem in metres   |   |  |  |  |  |  |  |  |  |  |  |  |  |
| Branch Sprea                     | nd Radius m)         | ) Branch spread in metres as radius from stem taken at the four cardinal points (N, S, E, W) |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
| Canopy Heigl                     | ht (m)               | Existing height of tree canopy above ground level measured in metres                         |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
| First Significa<br>Height & dire | ant Branch<br>ection | Existing height  | of first significant branch above ground level  | and direction of growth   |  |  |  |  |  |  |  |  |  |  |  |  |
| Life Stage                       | Y                    | oung Newly planted tree 0-10yrs  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|                                  | SM                   | Semi-mature  | emi-mature Tree in first third of normal life expectancy for species  |   |  |  |  |  |  |  |  |  |  |  |  |  |
|                                  | EM                   | Early Mature Tree in second third of normal life expectancy for species                      |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|                                  | М                    | Mature Tree in final third of normal life expectancy for species                             |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|                                  | OM                   | Over mature  | Tree beyond normal life expectancy for spec   | cies  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                  | V                    | Veteran  | Tree that is of interest biologically, aesthetic  | cally or culturally because of its age, size or condition                               |  |  |  |  |  |  |  |  |  |  |  |  |
| Physiological                    | Condition            | Good   | Fully functioning biological system with normal extension growth, leaf/bud size, crown density, incremental growth for species  |   |  |  |  |  |  |  |  |  |  |  |  |  |
|                                  |                      | Fair   | Fully functioning biological system but displaying below average extension growth, leaf/bud size, crown density, incremental growth for spec  |   |  |  |  |  |  |  |  |  |  |  |  |  |
|                                  |                      | Poor   | or Biological system with low functionality symptoms include: - poor extension growth, small and/or chlorotic leaves, small buds, limited incremental growth, sparse crown and/or die back. |   |  |  |  |  |  |  |  |  |  |  |  |  |
| Structural Co                    | ondition             | Good   | Tree without any significant structural defection   | cts   |  |  |  |  |  |  |  |  |  |  |  |  |
|                                  |                      | Fair   | Tree with minor defects that may be remed   | ied with appropriate management.  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                  |                      | Poor   | Tree with significant defects that cannot be  | remedied  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ash Health C                     | lass (AHC)           | Ash Health Cla   | ss (AHC) 1. 100% - 75% remaining canopy   | Ash Health Class (AHC) 2. 75%-50% remaining canopy                                      |  |  |  |  |  |  |  |  |  |  |  |  |
|                                  |                      | Ash Health Cla   | ss (AHC) 3. 50%-25% remaining canopy  | Ash Health Class (AHC) 4. 25%-0% remaining canopy                                       |  |  |  |  |  |  |  |  |  |  |  |  |
| Retention Ca                     | tegory               | Trees categoris<br>Table 1 Cascad  | sed in accordance with BS 5837: 2012 Trees in<br>le chart for tree quality assessment   | relation to design, demolition and construction - Recommendations                       |  |  |  |  |  |  |  |  |  |  |  |  |

Appendix A - Schedule of trees for proposed development at Le Brace, Pond Lane, Emborough, Radstock, BA3 4SE

#### BS 5837: 2012 Trees in relation to design, demolition and construction - Recommendations Table 1 Cascade chart for tree quality assessment

| Category and Definition   | Criteria (including subcategories where appropriate)  |   |   | Identification on Plan |  |
|---|---|---|---|------------------------|--|
| Trees unsuitable for retention (see note)   |   |   |   |                        |  |
| <b>Category U</b><br>Those in such a condition that they<br>cannot realistically be retained as<br>living trees in the context of the<br>current land use for longer than 10<br>years | <ul> <li>Trees that have a serious, irremediable, structural defect, sur become unviable after removal of other U category trees (e.g mitigated by pruning)</li> <li>Trees that are dead or are showing signs of significant, imme</li> <li>Trees infected with pathogens of significance to the health a adjacent trees of better quality</li> </ul>   | DARK RED  |   |                        |  |
| Trees to be considered for retentio   | Trees to be considered for retention  |   |   |                        |  |
|   | 1 Mainly arboricultural values  | 2 Mainly landscape values   | 3 Mainly cultural values, including conservation  |                        |  |
| Category A<br>Trees of high quality with an<br>estimated remaining life<br>expectancy of at least 40 years  | Trees that are particularly good examples of their species,<br>especially if rare or unusual; or those that are essential<br>components of groups or formal or semi-formal arboricultural<br>features (e.g. the dominant and/or principal trees within an<br>avenue)  | Trees, groups or woodlands of<br>particular visual importance as<br>arboricultural and/or landscape<br>features   | Trees, groups or woodlands of<br>significant conservation,<br>historical, commemorative or<br>other value (e.g. veteran trees<br>or wood-pasture) | LIGHT GREEN            |  |
| Category B<br>Trees of moderate quality with an<br>estimated remaining life<br>expectancy of at least 20 years  | Trees that might be included in category A, but are<br>downgraded because of impaired condition (e.g. presence of<br>significant though remediable defects including<br>unsympathetic past management and storm damage) such<br>that they are unlikely to be suitable for retention beyond 40<br>years; or trees lacking the special quality necessary to merit<br>the category A designation | Trees present in numbers, usually<br>growing as groups or woodlands, such<br>that they attract a higher collective<br>rating than they might as individuals; or<br>trees occurring as collectives but<br>situated so as to make little visual<br>contribution to the wider locality | Trees with material<br>conservation or other cultural<br>value  | MID BLUE               |  |
| Category C<br>Tree of low quality with an<br>estimated remaining life<br>expectancy of at least 10 years, or<br>young trees with a stem diameter<br>below 150mm                       | Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories   | Trees present in groups or woodlands,<br>but without this conferring on them<br>significantly greater landscape value,<br>and/or trees offering low or only<br>temporary/transient landscape benefits   | Trees with no conservation or other cultural value  | GREY                   |  |

Appendix A - Schedule of trees for proposed development at Le Brace, Pond Lane, Emborough, Radstock, BA3 4SE

Appendix B

Tree Protection Plan - Drawing no. 21441-LB-TPP-SK01



| Symbol Guide<br>Root protection area<br>Canopy spread<br>Tree position<br>(colour represents<br>retention category)<br>Tree number<br>Tree To Be Removed<br>B 5837:2012 - Tree Category<br>Moderate quality<br>Category A Trees<br>Moderate quality<br>Category U Trees<br>Category U Trees<br>Categ |              |  |  |  |  |  |
|--|--------------|--|--|--|--|--|
| Root protection area         Canopy spread         Tree position         (colour represents)         retention category)         Tree number         Image: Category A Trees         Category A Trees         Category B Trees         Category B Trees         Category B Trees         Category D Trees         Category B Trees         Moderate quality         Category U Trees         Poor quality/remove         Tree Protection Fencing   |              | Symbol Guide   |  |  |  |  |
| BS 5837:2012 - Tree Category         Image: Category A Trees High quality         Image: Category B Trees Moderate quality         Image: Category B Trees Moderate quality         Image: Category C Trees Moderate quality         Image: Category B Trees Moderate quality         Image: Category C Trees Moderate quality         Image: Category B Trees Moderate quality         Image: Category C Trees Moderate quality         Image: Category B Trees Moderate quality         Image: Category C Trees Moderate Quality         Image   |              | Root protection area<br>Canopy spread<br>Tree position<br>(colour represents<br>retention category)<br>Tree number<br>Tree To Be Removed |  |  |  |  |
| Category A Trees         High quality         Category B Trees         Moderate quality         Image: Category C Trees         Poor quality/remove         Image: Category B Trees         Moderate quality         Image: Category C Trees         Poor quality/remove         Image: Category C Trees         NOTE         All TREE POSITIONS ARE APPROXIMATE         Category C Trees         Poor Category C Trees         Poor Category C Trees         Poor Category C Trees         Category C Trees         Category C Trees         Category C Trees         Poor Category C Trees         Category C Trees   |              | BS 5837:2012 - Tree Category   |  |  |  |  |
| Category B Trees<br>Moderate quality       Category 0 Trees<br>Poor quality/remove         Tree Protection Fencing         NOTE<br>ALL TREE POSITIONS ARE APPROXIMATE         Image: Construction of the second   |              | Category A Trees<br>High quality   | Category C Trees<br>Low quality  |  |  |  |
| Image: State of the second state of  |              | Category B Trees<br>Moderate quality   | Category U Trees     Poor quality/remove   |  |  |  |
| NOTE         ALL TREE POSITIONS ARE APPROXIMATE         Image: Stress of the stress of   |              | Tree Protection Fencing  |  |  |  |  |
| NOTE         ALL TREE POSITIONS ARE APPROXIMATE         Image: Contract of the streng o  |              |  |  |  |  |  |
| NOTE         ALL TREE POSITIONS ARE APPROXIMATE         Image: Contract of the stress o  |              |  |  |  |  |  |
| Cutters Green       Chewton Mendip         Somerset       BA3 4NE         I. 01761 241871       E. info@alltree.co.uk         Client:       Dave and Charly Kimber         Agent:       Ink Architecture         Site:       Le Brace         Pond Lane, Emborough       Radstock BA3 4SE         Drawing Title:       TREE PROTECTION PLAN         Scale       1:250 @ A3       Date       August 2021         Drawing No.       21441-LB-TPP-SK01  | Y            | NOTE<br>ALL TREE POSITIONS ARE APPROXIMATE   |  |  |  |  |
| Client :<br>Dave and Charly Kimber<br>Agent: Ink Architecture<br>Site:<br>Le Brace<br>Pond Lane, Emborough<br>Radstock BA3 4SE<br>Drawing Title :<br>TREE PROTECTION PLAN<br>Scale 1:250 @ A3 Date August 2021<br>Drawing No.<br>21441-LB-TPP-SK01   |              | alltree  | Cutlers Green<br>Chewton Mendip<br>Somerset<br>BA3 4NE<br>T. 01761 241871<br>E. info@alltree.co.uk<br>W. www.alltree.co.uk |  |  |  |
| Agent:       Ink Architecture         Site:       Le Brace         Pond Lane, Emborough       Radstock BA3 4SE         Drawing Title :       TREE PROTECTION PLAN         Scale       1:250 @ A3       Date         August 2021       Drawing No.         21441-LB-TPP-SK01  |              | Client :<br>Dave and Charly Kimber   |  |  |  |  |
| Site:<br>Le Brace<br>Pond Lane, Emborough<br>Radstock BA3 4SE<br>Drawing Title :<br>TREE PROTECTION PLAN<br>Scale 1:250 @ A3 Date August 2021<br>Drawing No.<br>21441-LB-TPP-SK01  |              | Agent: Ink Architecture  |  |  |  |  |
| Drawing Title :<br>TREE PROTECTION PLAN<br>Scale 1:250 @ A3 Date August 2021 Drawing No. 21441-LB-TPP-SK01   |              | <sup>Site:</sup><br>Le Brace<br>Pond Lane, Emborough<br>Radstock BA3 4SE   |  |  |  |  |
| Scale         1:250 @ A3         Date         August 2021           Drawing No.         21441-LB-TPP-SK01  |              |  |  |  |  |  |
| 21441-LB-TPP-SK01  | <            | Scale 1:250 @ A3   | Date August 2021   |  |  |  |
|  | $\mathbf{i}$ | Drawing No. 21441-LB-TPP-SK01  |  |  |  |  |

# Appendix C

All weather construction exclusion zone site notice example



PROTECTIVE FENCING. THIS FENCING MUST BE MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND DRAWINGS FOR THIS DEVELOPMENT.



# TREE PROTECTION AREA KEEP OUT !

(TOWN & COUNTRY PLANNING ACT 1990) TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A TREE PRESERVATION ORDER. CONTRAVENTION OF A TREE PRESERVATION ORDER MAY LEAD TO CRIMINAL PROSECUTION

ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY