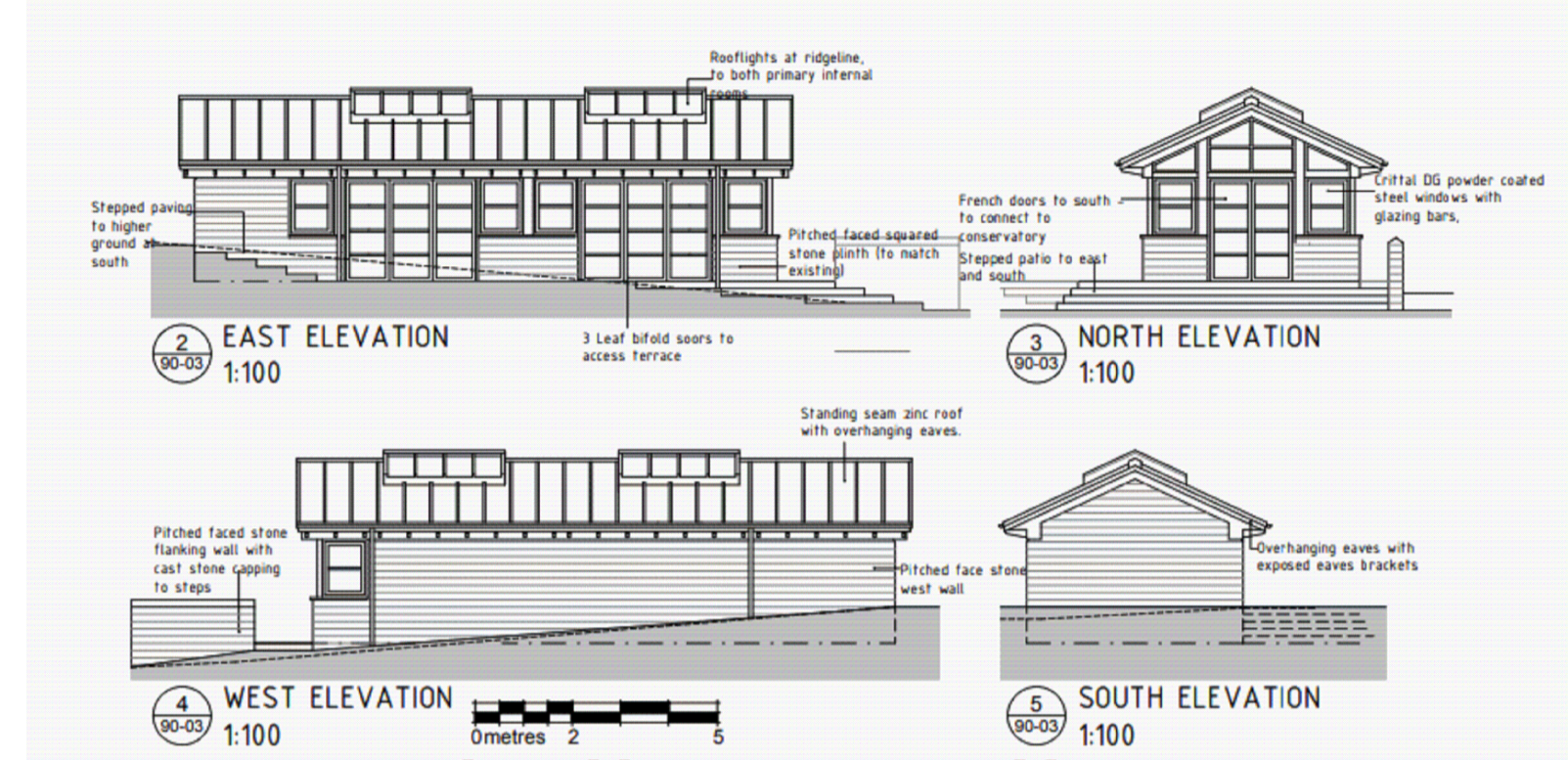


Site Address: Thurnscoe Hall, High Street, Thurnscoe, Rotherham S63 0ST

Arboricultural Impact Assessment:

The proposal aims to rebuild a garden structure in the southwest side of the garden in the location of a current structure.

The proposal includes steps to the east which infringe on the assumed Root Protection Area of an element of G20 by 16%, 9% and 13%. This infringement using traditional methods may lead to the decline of the X3 trees as a result of root loss/damage. The trees may be retained if alternative construction methods are used such as mini screw piles and a 'no dig' policy for the steps leading to the proposed building, however this may not be thought worthwhile and by retaining the trees we may also limit the use of the proposed steps.



The intended route for construction plant and materials to access the site may require the use of ground protection, this area should be detailed on a Tree Protection Plan, ground protection should be laid prior to any works to deter from ground compaction.

Tree Pruning:

No tree pruning is expected, however facilitation crown lifting may be required to T1-8 if high sided vehicles are accessing the site. In this case pruning should be completed in line with BS3998:2010 limiting the wound size to 50mm.

T19

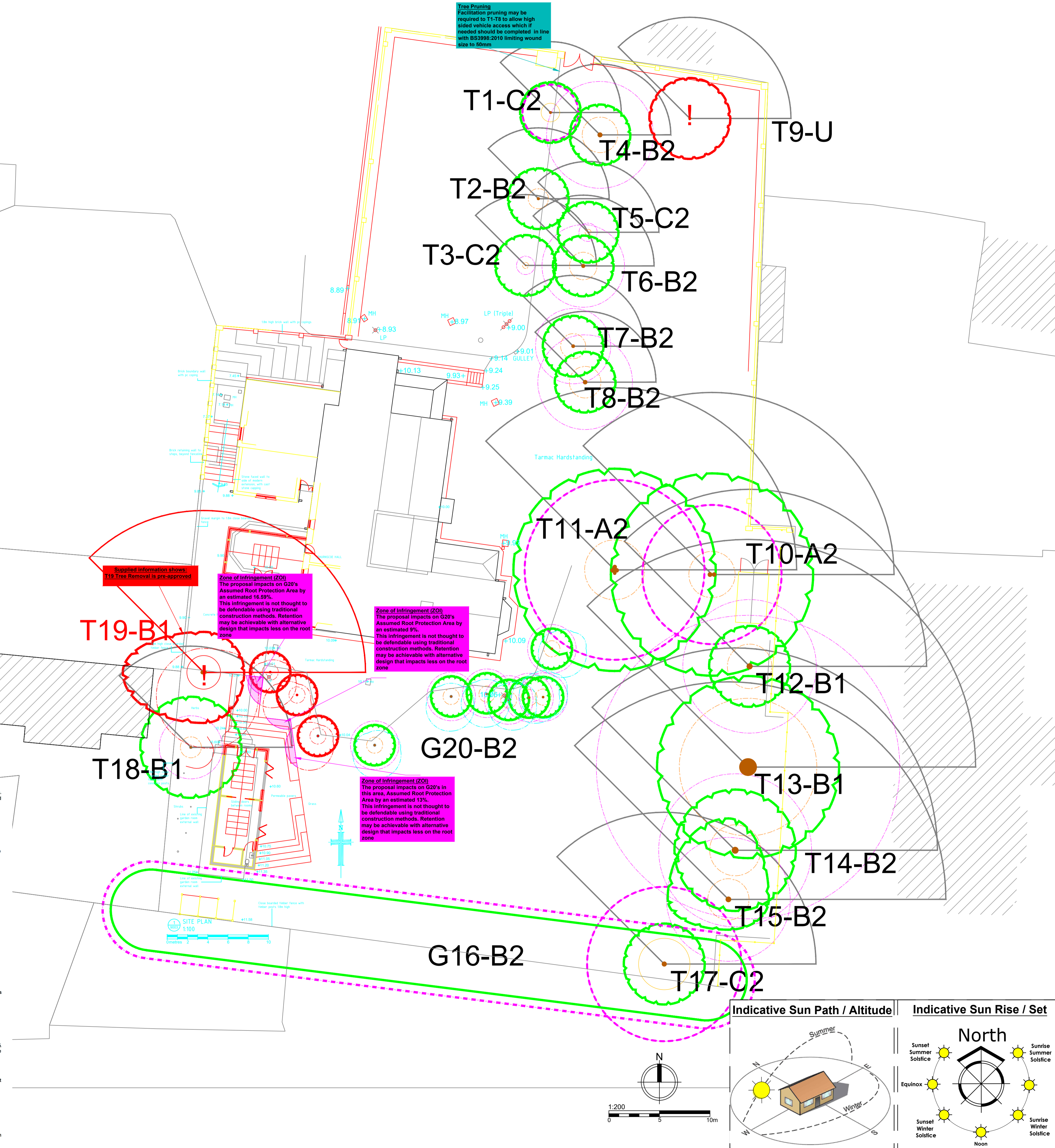
Supplied information suggests that approval has been gained to remove T19 prior to the proposed scheme however we cannot confirm this. If retained or refused, the AIA will require reviewing to reflect the likely impact on T19 with adjustments to the design or inclusion to remove the tree as part of the scheme.

Category	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	Retention
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years.	Trees that are particularly good examples of their species, especially if rare or unusual, or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit this.	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals, or trees occurring as collectives but situated so as to make little visual contribution to the wider locality.	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture).	Green on Plan
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories.	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value, and/or trees offering low or only temporary/transient landscape benefits.	Trees with material conservation or other cultural value.	Blue on Plan
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.			Trees with no material conservation or other cultural value.	Grey on Plan

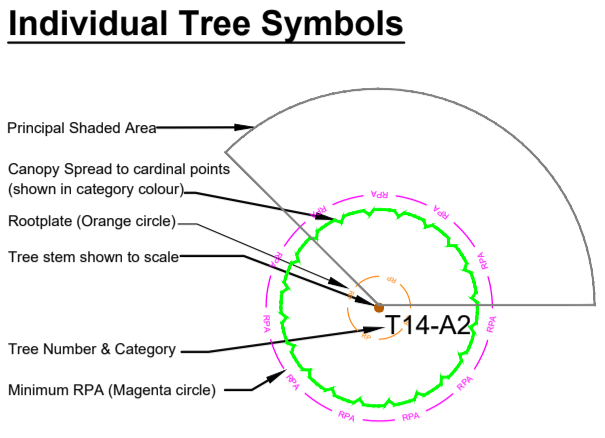
BS5837 Tree Survey
The following survey has been prepared from a visual assessment taken from ground level without any detailed investigation. Observations are based upon the body language of the trees and any visual indicators present at the time of inspection. This survey should be regarded as a preliminary overview; ongoing inspections will be required as specified individually. In most situations, the health, condition and safety of trees should be checked on a cyclical basis, alternating between early and late seasons to ensure a full picture of tree health is established. Inspections should only be carried out by a suitably qualified arborist.

Mathematical abbreviations: > Greater than, < Less than.
Et: This includes any attributes that have been estimated.
Measurements/estimates: Measurements are taken with a tape, diometer or laser. If dimensions are estimated, this will be indicated within the Et column.
Tree number: Numbered Tag attached to each stem, usually on the inside face of the stem at roughly 2.5 metres. Where the number is prefixed by a T, G, H, A, ST, S or W this denotes that the tag refers to a Tree, Group, Hedge, Area, Stump, Shrub or Woodland.
Name: Tree species are detailed by their common name-Latin can be provided upon request.
Age: I record the age as an estimate of the tree's likely span for guidance only, i.e.:
Y Young Recently established/planted tree
EM Early Mature Fully established and growing with high vigour
M Mature The middle one-third of its likely expected lifespan
OM Over Mature The later one-third of its likely expected life span with signs of canopy retrenchment.
V Veteran An aged example of the species, typically with defects & conservation value
A Ancient Beyond its expected life span possible of historical interest or in a state of decline
Height: I estimate height to the nearest metre to the mean height.
Crown Height: I estimate height to the nearest half metre to the mean underside of the canopy.
FSB: The height and direction of the First Significant Branch.
Diameter: These figures relate to a measurement of the stem at 1.5m above ground level recorded in millimetres, measured with a rounded-down diameter tape.
Canopy (N S E W): I estimate the distance of the canopy radius to the nearest metre to provide a mean distance of separation between the stem and the outer canopy.
Condition: Is a personal assessment of the tree's growth rate in the current season, in comparison to other trees within the locality, region and an indicator of the tree likely response to site change.
Life Expectancy: Is a personal assessment of the trees likely expected remaining safe life span in years, assuming the current site management continues, or the tree is protected from significant environmental change. Trees can enter into serious decline with site changes and likewise, the expected safe life can be significantly improved following changes/improvements to site management and following remedial works.
Good A tree of normal vitality Fair A tree of lower vitality Poor A tree of low vitality Dead A dead or very low vitality tree

Comments/ Observations: General comments referring to tree health, structure and condition.
Management Options: Comments detailing remedial works required to improve immediate safety or improve the management of the tree.
Tree Risk Assessment: We typically apply our BARMY (Barnes Associates Risk Method (of) Yorkshire) - we are proudly based in Yorkshire and could not resist the inclusion of the 'Y'. We openly admit this is a method based upon the THREATS methodology. The complete details of THREATS (The Hazard-Risk Evaluation and Treatment System) can be found at <https://www.fiac.uk.com/wp-content/uploads/2010/07/THREATS-GN-June-2010.pdf> and unless stated otherwise, assumes the risk referred for the next year.
Rootplate: Is a representation of the area under a tree that is subjected to high loading and is important for tree stability. It is calculated by 4 x Diameter of the Trees stems, as detailed by C. Mattheck in 'The Body Language of Trees'.
Minimum RPA (m) - Root Protection Area: Minimum distance in metres of the position of protective fencing in line with section 4.6 of BS5837:2012. In order to avoid damage to the roots or rooting environment of retained trees, an area equivalent to a circle with a radius 12 times the stem diameter.
Tree Protection Zone (TPZ) (m) - This is an additional distance offset of 2m beyond the RPA fence, to provide space for growth and to act as a buffer to the RPA fence; essentially, this provides construction access, such as a zone for scaffolding.
Root Protection Area (Radius) (m) - RPA given in metres from the centre of the stem.
Root Protection Area (Area) (m²) - The ideal total area for the RPA given in metres squared.
Buffer Zone - The magenta RPA line offers the minimum root protection area in line with BS5837, the buffer zone offers a 2m zone outside the RPA which should be considered in the project planning phase to include further protection/ exclusion to protect potential tree roots and allow future growth. It also provides access/scaffolding space outside the minimum RPA.



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- Tree Management Requirements**
- Trees to be retained within the scheme and protected in line with the guidelines set out in BS5837.
 - Zone of Infringement- (ZOI) Indicated by Magenta shading. Areas of conflict within RPA's of retained trees.
 - Trees to be removed to enable the scheme to be carried out as proposed. All works to be undertaken in line with BS3998.
 - Trees identified as U category requiring management, irrespective of scheme

Notes:
Plan is based upon an aerial image sourced from Google Earth. As such, precision scaling cannot be guaranteed.

Drainage/Utility layout not provided.
Excavation dimensions/battering not provided.

Date	Description
01/11/2023	Preliminary Issue

A

Client: Pearce Bottomly

Project: Thurnscoe Hall, High Street

Title: Arboricultural Impact Assessment

Drawing No: BA12012AIA Status: p

Scale: 1:200 @ A1

Date: 01/11/2023

Drawn By: BS Checked: SB Approved: SB

BARNES associates
SURVEY MANAGE IMPROVE
Unit 1 Foundry Yard, New Row
Boroughbridge YO51 9AX
T 01423 322 371
E info@barnesassociates.co.uk
W barnesassociates.co.uk
Company Number 10438116
Registered in England and Wales

