arbtech

**Arboricultural Impact Assessment to BS5837:2012**

**Boom Developments Ltd.**

**Low Farm,**
**Wakefield Road,**
**Grange Moor,**
**Wakefield,**
**WF4 4BB.**

4 July 2023

Alan Thompson FdSc (Arb) MArborA

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*If this report has been released electronically the appendices referred to herein can be found in the annexed zip folder/s as .pdf files. If this report has been released in hard copy the appendices will be bound into the back of this report. Plans are annexed separately as A0, A1, A2 or A3 as appropriate.*


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## Introduction

Barton Hyett Associates received written instruction in February 2022 from Boom Developments Ltd to attend Low Farm, Wakefield Road, Grange Moor, Wakefield, West Yorkshire, WF4 4BB to undertake an arboricultural survey to BS5837:2012 guidance to assess trees, hedges and major shrub groups growing on and within influencing distance of the site and to produce a Schedule of trees, Tree Constraints Plan and Arboricultural Impact Assessment.

ArbtechConsulting Limited (Arbtech) received written instruction in April 2023 from Boom Developments Ltd to produce the Arboricultural Method Statement and Tree Protection Plan for the project.

## Executive Summary

This report describes the extent and effect of the proposed development at the site on individual trees and groups of trees within and adjacent to the site.

**Figure 1: OS Map (Bing Maps) showing site location.**

**Figure 2: Aerial Image of Survey Area (Google Earth) illustrating site boundary.**

Trees within the survey area were surveyed; using a methodology guided by British Standard 5837:2012 'Trees in relation to design, demolition and construction – Recommendations' ("BS5837").

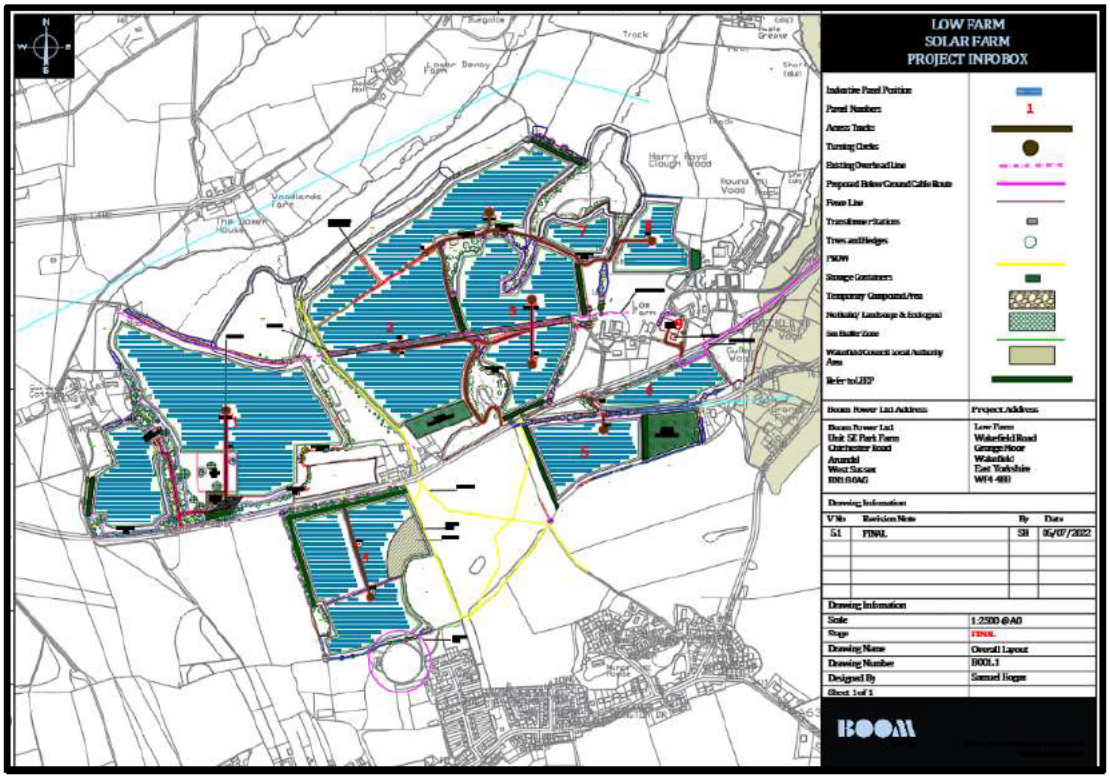
Subsequently, this report has been produced, balancing the layout of the proposed development against the competing needs of trees. This report comprises all of the requisite elements of an arboricultural implications assessment, method statement and supporting plans.

## Checklist for Submission to Local Planning Authority

| | |
|---|---|
| Tree survey | ☒ |
| Tree constraints plan | ☒ |
| Arboricultural impact assessment | ☒ |
| Arboricultural method statement | ☒ |
| Tree protection plan | ☒ |

This report and its appendices follow precisely the strategy for arboricultural appraisal intended to provide local planning authorities with evidence that trees have been properly considered throughout the development process.

## Proposal




**N.B.** It is noted that the masterplan may be altered slightly as the development design progresses. However, the intention that infrastructure will not be located within any tree RPAs and no new access tracks will be proposed will be adhered to in any future iteration of the scheme design so that the findings of this report remain valid.

## General Information

**Client:** Boom Developments Ltd.

**Site:** Low Farm, Wakefield Road, Grange Moor, Wakefield, West Yorkshire, WF4 4BB

**Brief proposal description:** Construction of solar power farm with associated access tracks, transformer compounds, ancillary infrastructure & fencing.

Table 1: Documents referred to.

| Document | Reference No. |
|---|---|
| Topographical Survey | 31351 NGLS |
| Proposed layout drawing | LOFA – B001 v5.1 |
| Landscape master plan drawing | N/A |
| LPA pre-app comments | N/A |
| British Standard 5837:2012 | "BS5837" |
| Arboricultural Impact Assessment | LOFA-KIRK-APRVD-AIA-Rpt-v1.0 |
| Tree Protection Plan | Arbtech TPP 01 Rev A |

## Tree Survey

**Survey:** An arboricultural survey to BS5837 of all trees within impacting distance of the site was undertaken by Dave Holmes of Barton Hyett Associates on 9th & 10th of March 2022.

A total of 101No. individual trees, 33No. hedges, 67No. groups of trees and 16No. wooded areas were surveyed. Details for each of the trees surveyed are provided in the Schedule of Trees (see Appendix 3)

Table 2: Documents upon which this tree survey has been based:

| Document | Originator | Reference Number | Title |
|---|---|---|---|
| Topographical Survey | Survey Solutions | 31351NGLS | LOFA Topo |

**Limitations:** The survey was made at ground level using visual observation only. Detailed examinations, such as climbing inspections and decay detection equipment were not employed, though may form part of the survey's management recommendations. Measurements were taken using specialist tapes, laser and GPS devices. Where this was not possible, measurements are estimated.

**Scope:** Pre-development tree surveys make arboricultural management recommendations based exclusively upon the individual tree or group of trees condition relative to their present context (*i.e. not in relation to the proposed development*).

**Legal Status:** No statutory protection check has been performed. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order ("TPO"), and those trees without. This is principally because a detailed planning consent overrides any TPO protection. Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.

* For more information on the surveyed trees please see Barton Hyett Associates, Tree Survey Schedule (Appendix 1).

Table 3: Documents upon which this assessment has been based

| Document | Originator | Reference Number | Title |
|---|---|---|---|
| Topographical Survey | Survey Solutions | 31351NGLS | LOFA Topo |
| Proposal | Boom Developments Ltd. | LOFA – B001 v5.1 | Overall Planning Layout |

There are a number of issues that may need to be addressed in an arboricultural impact assessment between the trees and the proposed development, these are as follows:

- The effect and extent of the proposed development within the root protection areas (RPAs) of retained trees;
- The potential conflicts of the proposed development with canopies of retained trees; and
- The likelihood of any future remedial works to retained trees beyond which would have been scheduled as a part of usual management.

Table 4: Impacts upon the RPAs of retained trees

| Tree Number | Species | Structure | Incursion |
|---|---|---|---|
| T7 | Sycamore | Access Track | RPA |
| T23 | Sycamore | Access Track | RPA |
| T24 | Beech | Access Track | RPA |
| T35 | Oak | Access Track | RPA |
| T36 | Sycamore | Access Track | RPA |
| T39 | Ash | Access Track | RPA |
| T77 | Sycamore | Access Track | RPA |
| T91 | Oak | Access Track | RPA |
| G39 | Various | Access Track | RPA |
| G40 | Ash | Access Track | RPA |

| Tree Number | Species | Structure | Incursion |
|---|---|---|---|
| G59 | Various | Access Track | RPA |
| G62 | Various | Access Track | RPA |
| G63 | Various | Access Track | RPA |
| W7 | Various | Access Track | RPA |

**Trees to be removed.**

The proposal requires the removal of one category C tree, and the partial removal of a small section of category B hedgerow.

Table 5: Number of individual trees to be removed.

| U | A | B | C |
|---|---|---|---|
| 0 | 0 | 0 | 1 |

Table 6: Number of groups to be removed. Indicates partial removal of hedge/group () represents partial removal of a group or hedge.

| U | A | B | C |
|---|---|---|---|
| 0 | 0 | 0 (1) | 0 |

## Arboricultural Method Statement

The purpose of this method statement is to demonstrate how any aspect of the development that has potential to result in loss or damage to a tree may be implemented and provide an adequate level of protection for those trees that are to be retained during the proposed works.

Details of key site personnel, including site / project manager will be submitted to the Council's Tree Officer prior to the commencement of site works.

This method statement is to be approved and agreed to in writing by all key personnel prior to the commencement of site works.

No site personnel are to be present and no demolition, site clearance, building work or delivery of materials is to occur until the protective measures are in accordance with this method statement and the Tree Protection Plan drawing number Arbtech TPP 01.

Protective measures should be in accordance with this method statement and the Tree Protection Plan; drawing number Arbtech TPP 01 will remain unaltered and in situ, unless otherwise specified, for the entire duration of the construction.

Table 7: Documents upon which this assessment has been based

| Document | Originator | Reference Number | Title |
|---|---|---|---|
| Topographical Survey | Survey Solutions | 31351NGLS | LOFA Topo |
| Proposal | Boom Developments Ltd. | LOFA – B001 v5.1 | Overall Planning Layout |

## Tree Works

For reasons of public safety, all tree works referred to herein must be carried out prior to any site personnel commencing works or any building materials being delivered.

Table 8: Summary of Tree Works

| No. | Species | Works | Category |
|---|---|---|---|
| T22 | Sycamore | Fell to ground level; remove stump | $C_1$ |
| G59 | Various | Crown lift to 4m above access road to give clearance for site traffic & plant machinery. | $A_{12}$ |
| H7 | Hawthorn | Removal of small section of hedge to facilitate construction of access track into southern field in zone 4. | $B_2$ |

**Notes**

All tree work is to be undertaken in accordance with British Standard BS 3998:2010, Recommendations for tree work. All arising's are to be removed and the site is to be left as found. Care is to be taken of the ground around retained trees to make sure that it does not become compacted as a result of tree surgery operations. No equipment or vehicles such as timber Lorries, tractors, excavators or cranes shall be parked or driven beneath the crowns of any retained trees, to prevent subsequent compaction and root death.

**Tree removal**

A tree should be felled in one piece only when there is no significant risk of damage to people, property or protected species (see Annex A).
Where restrictions (e.g. lack of space, buildings, other features, land ownership or use, or other trees which are to be retained) cannot be overcome, trees should be dismantled in sections.
This also applies where a tall stump is being retained but where branches are to be removed/pruned.
Extensively decayed trees can be unpredictable when they are being felled, and special precautions should therefore be taken, such as the use of a winch to guide the direction of fall.

**Stump removal – stump grinding**

Stump grinding should be to a minimum of 300mm deep or to extend through the base of the stump leaving the major roots disconnected if the intention is to reduce the potential for the spread of Honey fungus.
The grinding residue should be treated as arising's and removed from site.
*NOTE Mechanical destruction of a stump by stump grinding is less disruptive to the site than digging out.*
The hole left by stump removal, should be filled with soil or other material. The filling should be appropriate for future site usage, and for any surface treatment that is to be installed.
Where future plant growth is desired, the backfill material should be firmed in 150 mm layers by treading, avoiding excessive compaction and destruction of the soil structure.

**Stump removal - digging**

Stump removal by digging out should include disposal/utilisation of woody material (see Clause **13**).
*NOTE Whether done by hand or machine, digging out can cause severe disturbance of the site.*
Where possible, when winching out a stump, a ground or other type of anchor should be used rather than a tree to be retained. If there is no alternative to using such a tree as an anchor, appropriate protective measures should be adopted.

**After stump removal**

The hole left by stump removal, whether by digging out or grinding, should be filled with soil or other material. The filling should be appropriate for future site usage and for any surface treatment that is to be installed.
Where future plant growth is desired, the back fill material should be firmed in 150mm layers by treading, avoiding excessive compaction and destruction of the soil structure.

## Site Management

The site manager will be responsible for briefing and inducting all personnel who will be working on any stage of this development and especially those who will be working within or adjacent to the canopies or RPAs of retained trees; and will make them aware of, and provide a copy of this method statement and tree protection plan drawing number Arbtech TPP 01; this is to include but not exclusively of the movement and or operation of plant, excavations, unloading deliveries, mixing and or pouring of cement and concrete.

The site manager will be responsible for the day to day running and protection of all retained trees and for liaising with the project arborist about any tree related matters and prior to any works that may or will affect the RPAs or canopies of retained trees; this is to include but not exclusively the movement and or operation of plant, excavations, unloading deliveries, mixing, pouring and storage of all caustic materials that may cause harm to retained trees.

Any incidents of damage to retained trees or of tree protection measures will be documented by the site manager who will then report these incidents to the project arboriculturist immediately and make sure that works within this area cease until the project arborist has had an opportunity to inspect the damage and where appropriate, agree a mitigation plan with the local planning authority tree officer.

The site manager may designate another person to take charge of briefing and inducting process of new site personnel or visitors in his absence.

If the site manager is replaced or is absent from site for more than three consecutive working days the project arborist will be informed and a pre start meeting will be held with the new or acting site manager.

It is the responsibility of the site manager to ensure that the planning conditions attached to the planning consent are adhered to at all times and that a monitoring regime and supervision of any works within or adjacent to the RPAs are adopted.

If at any time pruning works are required other than those previously approved, permission must be sought from the LPA tree officer and once permission is granted they are to be carried out by a suitably qualified person in accordance with BS3998:2010 Tree work – Recommendations.

## Prohibition

- Mechanical digging or scraping is not permitted within a defined root protection area or within areas cordoned off by protective barrier fencing.
- No access will be permitted within the protected areas;
- No materials, equipment or debris will be stored within any of the fenced areas, or against the fencing;
- Fires are not permitted within 10m of any vegetation.
- Leaning objects against or attaching of objects to a tree is not permitted.
- Machinery, plant and vehicles are not permitted to be washed down within 10m of vegetation.
- Chemicals and materials are not to be transported, stored, used or mixed within a root protection area or within areas cordoned off by protective barrier fencing.
- Cement silos, mixing site to be situated within a bunded area to prevent pillage/leaking of chemicals harmful to trees. These areas are to be sited well clear of protected trees.
- Refuelling of plant or machinery is prohibited within 10m of the construction exclusion zones.
- It is essential that allowance should be made for the slope of the ground so that damaging materials such as concrete washings, mortar or diesel oil cannot run towards trees.
- Where machinery is to be used within 5m of retained tree canopies a banks man will be required at all times whilst setting up, moving or operating within this distance of retained trees canopies.
- Storage of all caustic material and chemicals are to be situated well clear of protected areas and preferably on lower ground if slopes are present, or to be situated within a bonded area to prevent any spills or leaks entering the ground.

## Sequencing of works

A logical sequence of events is to be observed and shall be phased as follows.

Table 9: Sequence of Events

| Stage | Event |
|---|---|
| Stage 1 | Pre-commencement site meeting |
| Stage 2 | Carry out tree works as specified within the summary of tree works |
| Stage 3 | Installation of protective measures in accordance with the approved tree protection plan/s |
| Stage 4 | Compound/Site set up |
| Stage 5 | Undertake and complete construction works |
| Stage 6 | Undertake external landscaping works outside of the construction exclusion zones |
| Stage 7 | Removal of all machinery and materials form site |
| Stage 8 | Dismantle and removal of protective measures |
| Stage 9 | Undertake external landscaping works within the construction exclusion zones |
| Stage 10 | Sign off from project arboriculturist |

## Protective Measures

Protective measures are to be sited and aligned in accordance with the tree protection plan TPP 01 (Appendix 1) prior to the commencement of any works or the introduction of any machinery or material to site.

In the event that the protective measures and their positions do not comply with this arboricultural method statement document number Arbtech AMS 01 (04-07-23) and tree protection plan drawing number Arbtech TPP 01, the project arboriculturist shall inform the client and fencing contractor so adjustments can be made.

When the protective measures comply with document number Arbtech AMS 01 (04-07-23) and tree protection plan drawing number Arbtech TPP 01, the project arboriculturist will sign off the protective measures in writing to the client and will send a copy to the fencing contractor, site agent and local authority tree officer.

If the protective measures become damaged or there is any accident or emergencies involving trees, these areas are to be cordoned off immediately with high visibility plastic mesh fencing. The site agent is to photograph and document the damage and inform the project arboriculturist immediately after the incident and all work within in this area is to cease until the project arboriculturist has made a visit to the site. Any and all damaged sections of protective measures shall be replaced within 48 hours of the initial incident.

The protected area is sacrosanct and will not be invaded by the storage of materials, mixing of concrete or other products, accessed by machinery, equipment or pedestrians or in any other way disturbed by construction activity.

The protective measures will remain in place until the completion of stage 8 (see Sequencing of Works), thereafter they will be carefully dismantled only with the agreement of the project arboriculturist and or the local authority tree officer.

The existing site boundary measures are to be retained for the duration of the development. If for any reason the existing boundary measures are not to be used protective barrier fencing is to be installed along the line of the boundaries and is only to be removed upon the written permission of the project arboriculturist or LPA tree officer upon the completion of the development or immediately prior to the installation of the permanent boundary measures.

No equipment, vehicles or plant shall operate beyond the tree protection fencing. Booms, hoists and rigs should be kept as far away from the canopies of retained trees at all times. Where it is necessary to operate within 5m of a tree canopy, it will be done with the utmost caution and under the control of a banks man. Damage to trees will be

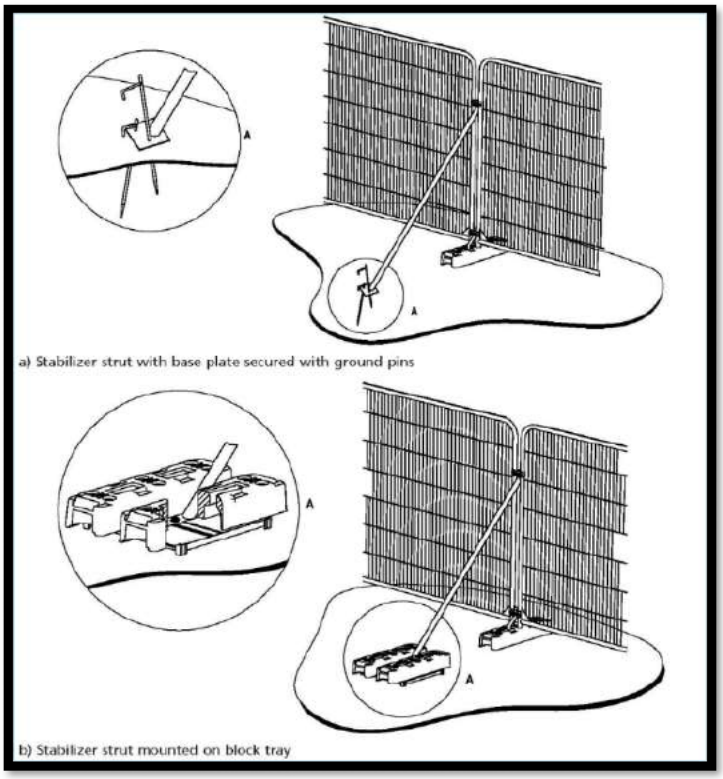
considered a breach of this tree protection plan, which in turn could be a breach of planning permission.

**Protective Barrier Fencing**

To be erected prior to the commencement of all works on site and retained in place throughout construction.
Due to the large size of the site & the low impact nature of the proposal, protective fencing has only been specified for trees/groups of trees/hedges in proximity of high use zones such as the site access road, site tracks, the site compound and transformers compounds.
The proposed perimeter fencing, once installed, will also act a protective barrier for the trees/hedges at the site during construction.

**Protective Fencing Specification:** To comprise of 2m tall, welded mesh panels on rubber or concrete feet. Panels are to be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence. The panels should be supported on the inner side by stabiliser struts, which should be attached to a base plate and secured with ground pins.

Signage denoting the words "*tree protection area*" at 5.0m intervals should be fixed to the protective barrier fencing (See Appendix 2).



## Construction

Prior to the construction of the proposal, a copy of the construction method statement should have been submitted and approved by the project arboriculturist and LPA tree officer, to ensure that there is no conflict with this method statement.

Any excavations and construction work within or immediately adjacent to RPAs or canopies of retained trees is to be undertaken under the direct on-site supervision of an arboriculturist.

### Access Tracks

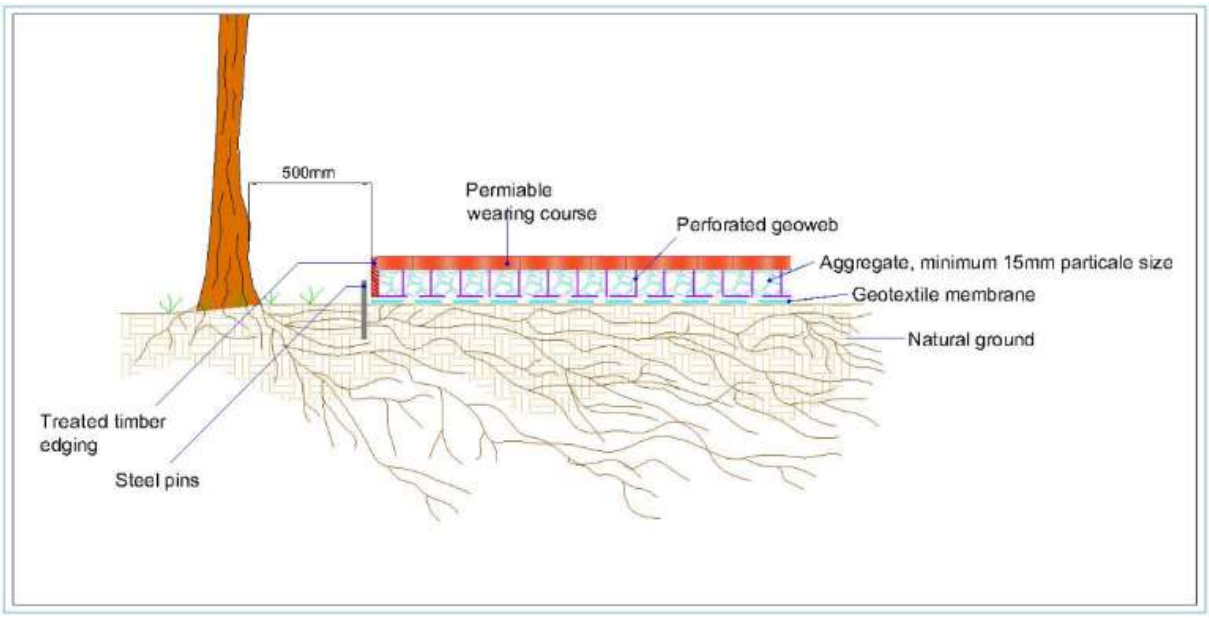
New hard surfacing to be situated within the RPAs of trees T7, T23, T24, T35, T36, T39, T77, T91, groups G39, G40, G59, G62, G63 & woodland W7 is to be designed in conjunction with arboricultural advice to accommodate the likely loading. The removal of the turf layer or other surface vegetation may be acceptable if necessary, but ideally the construction will be situated entirely above the existing ground level..

Multi-dimensional confinement system

A multi-dimensional confinement system (such as CellWeb$^{TM}$ or similar) will be used, it is to be laid entirely above the existing soil surface over a geo textile membrane and or a bi-axel geo-grid (such as tensar TriAx). Prior to this any small hollows on the surface may be filled with clean sharp sand (not builders' sand) to a maximum depth of 150mm. The 'CellWeb' is to be backfilled by hand with no-fines aggregate of 20mm – 30mm. The use of an excavator/machinery to fill the confinement system may be possible at the discretion of the project arboriculturist.

The area of 'CellWeb' shall be covered with a permeable geotextile fabric and the finished wearing course laid on top. The wearing course shall be permeable to both water and air to comply with 'SUDS' regulations.

Edge supports of an appropriate size and strength should be set above ground level and should be secured with either haunching or steel pins driven into the ground. The outer edge of the supports may be banked up with clean topsoil.




Typical cross section for multi-dimensional confinement system using timber edging

Installation of a multi-dimensional confinement system

a) Prepare the surface
- Remove any surface rocks and debris;
- Create a level surface by filling in any hollows with clean angular stone or sharp sand;
- Do not level off any high spots or compact the soil through rolling.

b) Layout Geotextile membrane
- Layout the permeable Geotextile membrane, overlaying edges of the required area by 300mm;
- Overlap any joints by 300m or more.

c) Layout multi-dimensional confinement system (MDC)
- Layout the collapsed MDC system on-top of the Geotextile membrane;
- Place one steel pin into the center cell at one end of the panel and secure it into the ground;
- Pull out the MDC to its full length (see manufacturers specifications), place a steel pin in the center at the opposite end and secure it into the ground;
- Pull out the MDC to its full width (see manufacturers specifications), and secure each corner into the ground with steel pins;
- Create a panel to the correct size using the required number of steel pins (as per the manufacture specifications);
- Makes sure all cells are fully extended (as per manufactures specifications);
- Staple adjacent panels together (as per manufacturers specifications);
- If a curved shape is required, the panels are to be cut down to the required size and shape once the MDC is pinned out. Do not curve or bend panels into place.

d) Infill with clean angular stone

- The infill material must be a clean (no fines or loimestone) angular stone (as per manufactures specifications)
- Do not use M.O.T type 1 or crushed stone with fines within or adjacent to RPAs;
- Infill the MDC cells with clean angular stone, working towards the tree using the infilled panels as a platform;
- No compaction is requires of the infill. Do not use a whacker plate, roller or any other means of compaction.

e) Edge restraints

- All kerb edging should be situated on top of the MDC within RPAs, Do not excavate within RPAs to install kerb edging;
- Where edging is required for light structures, a peg and treated timber board edging is normally acceptable;
- Other options include wooden sleepers, plastic or metal edging;
- The outer edges of the supports may be banked up with clean top soil and or mulch.

f) Wearing course

- Install a permeable geotextile membrane, over lapping any joints by 300mm before laying the wearing course;
- Surfaces will be loose gravel,
- Within RPAs the wearing course shall be permeable to both water and air.

## Landscaping

Any tree planting should take into consideration the available space for tree growth and development in order to ensure the trees are physically suited to the site at maturity. A specification for and notation relating to the precise alignment of replacement trees will be contained in the landscape proposals.

Landscaping around retained trees may only be carried out once all tree protection measures have been removed (planting, turfing, fencing etc.).

All excavations within the Root Protection Areas shall be undertaken by hand and without reducing current ground levels unless it is agreed in writing with the LPA. At no time is the use of a rotavator permitted within the RPAs of retained tree.

Any tree roots discovered will be left in-situ and shall not be cut or otherwise damaged. Where possible, the soil structure within the Root Protection area shall be preserved.

No works will be carried out within the RPAs of any trees if the soil moisture is of such a level that soil compaction may be likely. Should the soil become compacted or has poor structure which would hinder the development of the existing trees and plants or any new plantings the arboriculturist should be consulted about soil decompaction techniques.

## Monitoring and Supervision

Where trees have been identified within this method statement and tree protection plan drawing number Arbtech TPP 01 for retention, there should be an auditable system of arboricultural monitoring. This is to extend to arboricultural supervision whenever demolition or construction activity is to take place within or adjacent to any canopy or RPA.

The development's tree protection measures are to be monitored and all demolition and construction works to be undertaken within or adjacent to the RPAs of retained trees are to be supervised by project arboriculturist, who should be retained to record and report observations to the council at appropriate intervals.

**Pre-commencement site meeting**

Prior to the commencement of any works or machinery and materials arriving on site a pre-commencement site meeting involving the project arborist, landowner or agent, site manager, contractors and engineer (as appropriate) and the relevant LPA officers will be held to ensure that all aspects of the arboricultural method statement and tree protection are understood and for all parties to swap contact details (see Appendix 4).

**Monitoring and supervision schedule**

The initial monitoring visit will be to check that the tree protective measures are in the correct location and as specified within the approved method statement; if so to sign off their installation.

There after monitoring visits are to take place at regular intervals, to ensure that tree protection measures are in place and are functioning as designed or whenever necessary to undertake works to be carried out under arboricultural supervision. The frequency of the monitoring visits is to be determined with the LPA tree officer at the pre-commencement site meeting.

A record of all arboricultural monitoring and supervision visits will be kept and any faults will be logged, this will then be copied to the site agent, developer and local planning authority in a digital format.

If during the course of the development it is necessary for areas to be re-designed so that they would require changes to the approved arboricultural method statement or tree protection plan and so affecting retained trees the project arborist and LPA tree officer will be invited to attend a site meeting with all relevant parties. Prior to any changes being implemented these must have been approved in writing by the LPA tree officer.

## Supervision

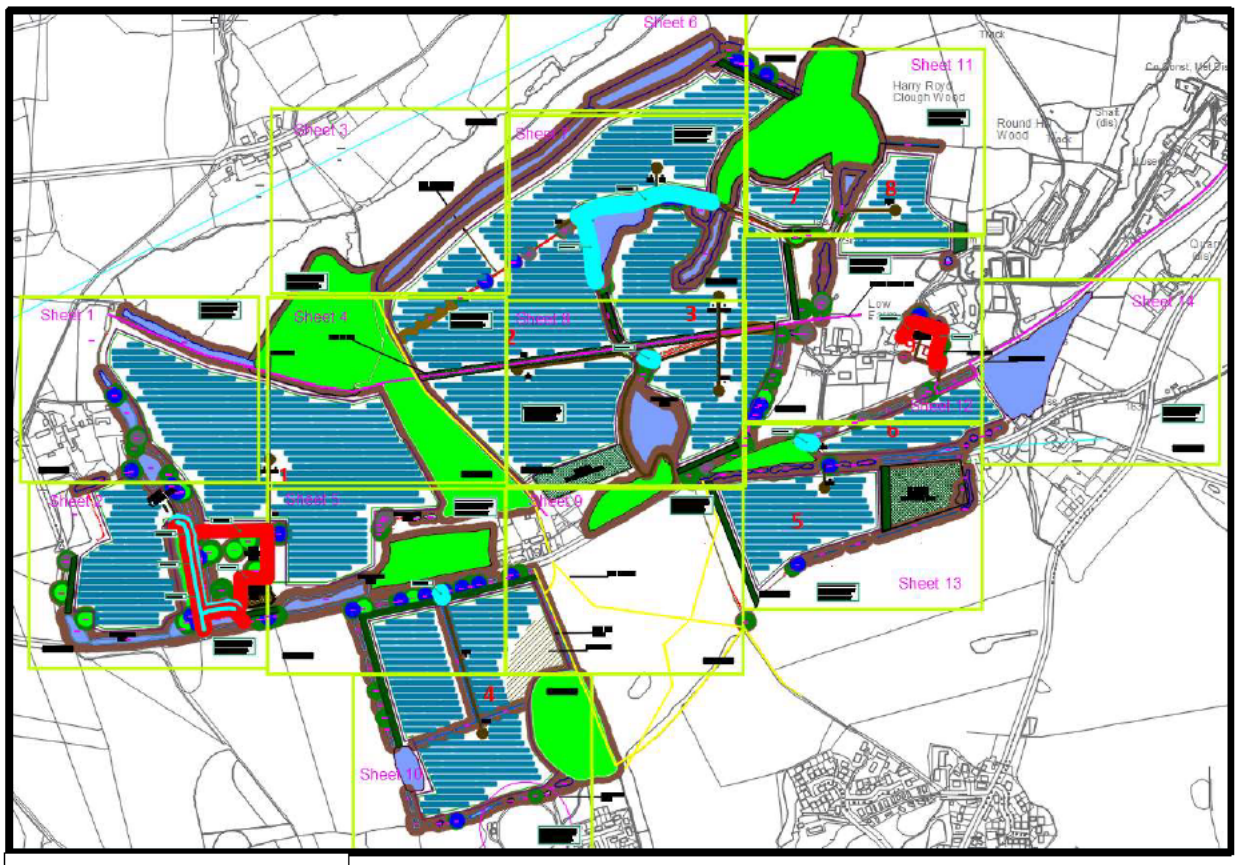
The arboricultural consultant will be required to attend site to directly supervise all demolition and construction works that are to be undertaken within or adjacent to the RPAs of all retained trees and will be advised a minimum of 72 hours prior to the commencement of any works that require his attendance, these will include:

1. Pre-commencement site meeting.
2. Location of protective measures.
3. Installation of no-dig surfacing within RPAs.
4. Any demolition and or excavations within or adjacent to RPAs, including foundations, hard surfacing or underground services (a non-exhaustive list).

## Completion meeting

Once all construction works have been completed all materials and machinery has been removed from site the project arborist shall be informed and will invite the LPA tree officer to meet on site to discuss the process and discuss any final remedial works that may be required and to sign the development off so that the protective measures may be removed.

# Appendix 1: Tree Protection Plan




TPP 01 – Sheet-plan

# Sheet 1

KEE OU

ARBTECH

arbtech

TX3

# Sheet 2

T 1/EOP
& Sto age Co t.

TREE
SHAD NG
AREA

Temporary
Compound
Area

TREE SHADING
AREA

KEE OU

ARBTECH

arb'tech

# Sheet 3

**Field Access Po nt -**
**North of Bu lt Wall**

KEE OU

ARBTECH

arb'tech

# Sheet 4

Refer to LEEP

n ng Circle

4

1

2

KEE OU

ARBTECH

arb'tech

B

B

B 0

0

0 0 S

0 0 0 0 0 0

# Sheet 5

X2

TREE SHADING AREA

TREE SHAD NG AREA

S

TX14

KEE OU

ARBTECH

arb'tech

# Sheet 6

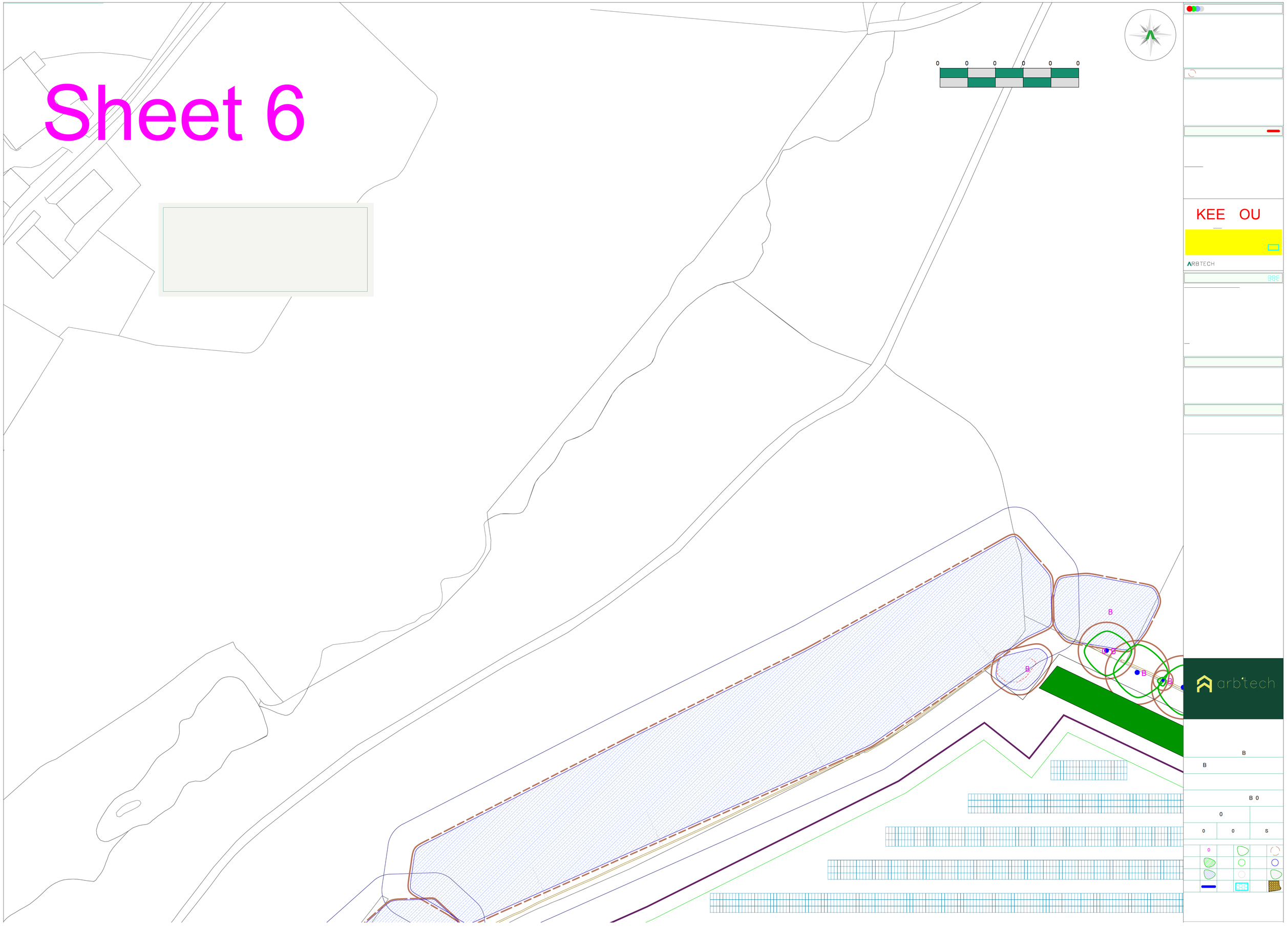







KEE OU

ARBTECH


B
B
B

# Sheet 7

TX8

TX9

TX7

TREE SHADING

TREE SHADING

S

S

B

KEE OU

ARBTECH

arbtech

B

B

B 0

0

0 0 S

0 0 0 0 0 0

# Sheet 8

2

3

TX6

TX5

TX11

TX12

TX10

TREE SHADING AREA

No Build/
Proposed Landscaping

0 0 0 0 0 0

KEE OU

ARBTECH

arb'tech

# Sheet 9

PRoW (Yellow)

Fence Line (Black)

No Build Area

4

TX15

Sheet 10

# Sheet 11

# Harry Royd
# Clough Wood

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REE SHADING AREA

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Sheet 12

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# Sheet 13

# Sheet 14

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Proposed Cable Route

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# Appendix 3: Tree Survey Schedule

**BS5837:2012 TREE SURVEY SCHEDULE**

**LOW FARM, WAKEFIELD**

PROJECT NO: 4958

SURVEYOR: DAVE HOLMES

CLIENT: BOOM POWER

SURVEY DATE: 09-10/03/2022

Barton Hyett Arboricultural Consultants

## INDIVIDUAL TREES

| Ref | Species | On / off site | Height (m) | No. of Stems | Est diam? | Calc. / Actual Stem Dia. (mm) | Crown radii (m) N-E-S-W | Avg. Canopy Height (m) | 1st branch ht (m) | 1st branch dir. | Life Stage | Special importance | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) | RPA m² | TPO? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T1 | Oak (English) | On | 10 | 1 | None | 480.0 | 5-6-4-6 | 1 | 1.0 | W | EM | None | Loss of main leader; heavily pruned to south | Good | Fair | 20+ | B1 | 6 | 104 | Yes |
| T2 | Oak (English) | On | 11 | 1 | None | 640.0 | 6-6-7-6 | 1 | 2.0 | E | EM | None | Loss of main leader; including cavity to north east of main stem @1.5m | Good | Fair | 20+ | B1 | 8 | 185 | Yes |
| T3 | Sycamore | On | 6 | 1 | None | 300.0 | 4-5-3-4 | 0 | 0.0 | None | SM | None | Self-seeded beneath oak | Fair | Fair | 10+ | C1 | 4 | 41 | Yes |
| T4 | Oak (English) | On | 14 | 1 | Yes | 600.0 | 6-5-6-7 | 0 | 1.0 | N | EM | None | Heavily swathed in ivy | Good | Fair | 20+ | B1 | 7 | 163 | Yes |
| T5 | Oak (Turkey) | On | 20 | 1 | None | 930.0 | 8-8-9-10 | 0.5 | 1.5 | S | M | None | Good example of species; historic storm damage to upper crown; pruning work to south of lower canopy | Good | Fair | 40+ | A1 | 11 | 391 | Yes |
| T6 | Sycamore | On | 15 | 1 | None | 680.0 | 5-6-7-6 | 0 | 0.0 | None | M | None | Sub-dominant limb to west forming cohesive crown with main stem | Good | Fair | 20+ | B1 | 8 | 209 | Yes |
| T7 | Sycamore | On | 12 | 2 | None | 560.0 | 4-5-5-5 | 2 | 2.0 | E | EM | None | Stem to west pruned to allow clearance above gateway | Good | Fair | 20+ | B1 | 7 | 142 | Yes |
| T8 | Oak (English) | On | 16 | 1 | Yes | 800.0 | 8-7-7-9 | 3 | 5.0 | S | M | None | Old beefsteak fungus to south east corner of root collar; excavations to south of root plate; heavily pruned to south | Good | Fair | 20+ | B1 | 10 | 290 | Yes |
| T9 | Oak (English) | On | 13 | 1 | Yes | 850.0 | 6-9-8-7 | 1 | 2.0 | N | M | Emerging Veteran | Damage to south of main stem @3-4m; decay/bark loss to first scaffold limb east; visible woodpecker activity to south west of main stem @5m; burred lower main stem; wind swept form to north east | Good | Fair | 40+ | A1 | 10 | 327 | Yes |
| T10 | Sycamore | On | 14 | 1 | None | 570.0 | 5-6-7-6 | 2.5 | 2.5 | W | M | None | Typical for species | Good | Fair | 20+ | B1 | 7 | 147 | Yes |
| T11 | Elder | On | 5 | 3 | None | 220.0 | 2-2-1-2 | 0.5 | 0.25 | W | EM | None | Typical for species | Fair | Fair | 10+ | C1 | 3 | 22 | Yes |
| T12 | Oak (English) | On | 16 | 1 | None | 850.0 | 8-8-8-9 | 2 | 2.0 | W | M | None | Good example of species; historic storm damage & pruning to south of crown; forks into 2 stems @5m | Good | Fair | 40+ | A1 | 10 | 327 | Yes |

**BS5837:2012 TREE SURVEY SCHEDULE**

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SURVEY DATE: 09-10/03/2022

Barton Hyett Arboricultural Consultants

| Ref | Species | On / off site | Height (m) | No. of Stems | Est diam? | Calc. / Actual Stem Dia. (mm) | Crown radii (m) N-E-S-W | Avg. Canopy Height (m) | 1st branch ht (m) | 1st branch dir. | Life Stage | Special importance | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) | RPA $m^2$ | TPO? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T13 | Sycamore | Off | 15 | 1 | None | 750.0 | 6-7-6-7 | 2.5 | 2.5 | N | M | None | Sun dominant limb to south west forming cohesive crown with main stem | Good | Fair | 20+ | B1 | 9 | 254 | Yes |
| T14 | Sycamore | Off | 13 | 1 | None | 600.0 | 5-7-6-6 | 2.0 | 2.0 | N | M | None | Forks into 2 stems @3.5m; barbed wire embedded to east of stem | Good | Fair | 20+ | B1 | 7.2 | 163 | Yes |
| T15 | Sycamore | Off | 13 | 1 | Yes | 500.0 | 5-5-6-5 | 2.0 | 2.5 | S | M | None | Moderate dieback in upper crown; small elder to south of root plate | Fair | Fair | 10+ | C1 | 6.0 | 113 | Yes |
| T16 | Oak (English) | On | 5 | 1 | None | 370.0 | 4-2-6-6 | 1.0 | 1.5 | N | SM | None | Typical for species | Good | Fair | 20+ | B1 | 4.4 | 62 | None |
| T17 | Sycamore | Off | 12 | 12 | None | 480.0 | 2-2-2-2 | 0.0 | 0.0 | None | EM | None | Re-gen from mature boles | Fair | Fair | 10+ | C1 | 5.8 | 104 | None |
| T18 | Oak (English) | On | 9 | 1 | None | 660.0 | 4-6-4-5 | 0.5 | 0.5 | E | M | None | Historic occluding @2m to west of main stem; heavily crown lifted; forks into 2 stems @2.5m; parts of old fence affixed to lower stem | Good | Fair | 20+ | B1 | 7.9 | 197 | None |
| T19 | Hawthorn | On | 4 | 1 | None | 250.0 | 1-2-1-2 | 0.0 | 0.0 | None | EM | None | Diameter recorded @0.5m | Good | Fair | 20+ | B1 | 3.0 | 28 | None |
| T20 | Hawthorn | On | 4 | 1 | Yes | 350.0 | 1-2-1-2 | 0.0 | 0.0 | None | EM | None | Diameter estimated @0.5m | Good | Fair | 20+ | B1 | 4.2 | 55 | None |
| T21 | Oak (English) | On | 9 | 2 | None | 550.0 | 8-5-7-6 | 0.5 | 0.5 | W | EM | None | Sub dominant limb to south forming cohesive crown with main stem | Good | Fair | 20+ | B1 | 6.6 | 137 | None |
| T22 | Sycamore | On | 8 | 8 | None | 590.0 | 4-3-2-2 | 0.0 | 0.0 | None | SM | None | Had been partially cut back to clear gateway | Fair | Fair | 10+ | C1 | 7.1 | 157 | None |
| T23 | Sycamore | On | 16 | 1 | None | 640.0 | 6-6-7-5 | 3.0 | 4.0 | W | M | None | Typical for species | Good | Fair | 20+ | B1 | 7.7 | 185 | None |
| T24 | Beech (Common) | On | 20 | 1 | None | 1060.0 | 9-10-8-8 | 1.0 | 3.0 | N | M | None | Good example of species; forks into 2 stems @3m; main stems heavily swathed in ivy | Good | Fair | 40+ | A1 | 12.7 | 508 | Yes |
| T25 | Cypress (Lawson) | On | 7 | 1 | None | 400.0 | 2-3-2-2 | 0.0 | 0.0 | None | EM | None | Topped @7m | Fair | Fair | 10+ | C1 | 4.8 | 72 | Yes |
| T26 | Cypress (Leyland) | On | 8 | 5 | None | 270.0 | 2-2-2-2 | 0.0 | 0.0 | None | EM | None | Topped @8m | Fair | Fair | 10+ | C1 | 3.2 | 33 | Yes |
| T27 | Elm (English) | On | 9 | 4 | Yes | 310.0 | 2-3-3-2 | 0.0 | 0.0 | None | EM | None | Dead standing | None | Poor | <10 | C1 | 3.7 | 43 | Yes |
| T28 | Elm (English) | On | 8 | 10 | None | 570.0 | 2-2-2-2 | 0.0 | 0.0 | None | EM | None | Multi stemmed | None | Poor | <10 | C1 | 6.8 | 147 | Yes |

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CLIENT: BOOM POWER

SURVEY DATE: 09-10/03/2022

Barton Hyett Arboricultural Consultants

| Ref | Species | On / off site | Height (m) | No. of Stems | Est diam? | Calc. / Actual Stem Dia. (mm) | Crown radii (m) N-E-S-W | Avg. Canopy Height (m) | 1st branch ht (m) | 1st branch dir. | Life Stage | Special importance | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) | RPA $m^2$ | TPO? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T29 | Ash (Common) | On | 14 | 2 | None | 600.0 | 6-8-7-4 | 1.0 | 2.0 | N | EM | None | Typical for species | Good | Fair | 20+ | B1 | 7.2 | 163 | Yes |
| T30 | Willow (Goat) | On | 8 | 5 | None | 350.0 | 3-2-3-2 | 0.0 | 0.0 | None | EM | None | Multi stemmed; within Conservation Area | Good | Fair | 10+ | C1 | 4.2 | 55 | None |
| T31 | Ash (Common) | On | 10 | 4 | None | 510.0 | 5-4-7-4 | 0.0 | 0.0 | None | EM | None | Multi stemmed; within Conservation Area | Good | Fair | 10+ | C1 | 6.1 | 118 | None |
| T32 | Willow (Goat) | Off | 14 | 6 | None | 930.0 | 5-5-7-6 | 0.0 | 0.0 | None | EM | None | Multi stemmed; within Conservation Area | Good | Fair | 20+ | B1 | 11.2 | 391 | None |
| T33 | Sycamore | On | 14 | 1 | Yes | 400.0 | 5-5-6-5 | 0.0 | 0.0 | None | EM | None | Difficult to access owing to ditch & thorn thicket | Good | Fair | 20+ | B1 | 4.8 | 72 | None |
| T34 | Oak (English) | On | 17 | 1 | None | 820.0 | 8-8-9-9 | 1.0 | 1.5 | N | M | None | Good example of species; pruning work to north & west of lower canopy | Good | Fair | 40+ | A1 | 9.8 | 304 | None |
| T35 | Oak (English) | On | 16 | 1 | None | 800.0 | 9-9-8-9 | 4.5 | 4.5 | E | M | None | Historic storm damage with loss of upper crown; pruning work to south of lower canopy; delaminated limb @8m to south east of crown; hung-up limb to east of crown @5m | Fair | Fair | 20+ | B1 | 9.6 | 290 | None |
| T36 | Sycamore | On | 16 | 1 | None | 720.0 | 6-5-7-8 | 4.5 | 4.5 | S | M | None | Occluding would to west of main stem @1.5m; pruning work to north; west & south of canopy | Good | Fair | 20+ | B1 | 8.6 | 235 | None |
| T37 | Sycamore | On | 14 | 1 | None | 620.0 | 6-5-6-6 | 1.5 | 2.0 | N | M | None | Occluding would to south of main stem @0.5m; pruning work to remove basal shoots | Good | Fair | 20+ | B1 | 7.4 | 174 | None |
| T38 | Sycamore | On | 8 | 1 | None | 370.0 | 3-4-2-2 | 0.0 | 0.0 | None | EM | None | Extensive decay throughout main stem; significant basal shoots; good habitat stem | Fair | Poor | 10+ | C1 | 4.4 | 62 | None |
| T39 | Ash (Common) | On | 15 | 2 | Yes | 1060.0 | 7-7-8-6 | 5.0 | 4.5 | N | M | None | Forks into 2 stems @2m; small cavity to south of root collar; historic storm damage/ damaged limbs with associated decay & visible woodpecker activity; pruning work to improve clearance above gateway | Good | Fair | 20+ | B1 | 12.7 | 508 | None |
| T40 | Sycamore | On | 8 | 5 | Yes | 480.0 | 2-1-3-4 | 0.0 | 0.0 | None | EM | None | Extensive decay to upper crown | Fair | Poor | 10+ | C1 | 5.8 | 104 | None |

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Barton Hyett Arboricultural Consultants

| Ref | Species | On / off site | Height (m) | No. of Stems | Est diam? | Calc. / Actual Stem Dia. (mm) | Crown radii (m) N-E-S-W | Avg. Canopy Height (m) | 1st branch ht (m) | 1st branch dir. | Life Stage | Special importance | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) | RPA $m^2$ | TPO? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T41 | Oak (English) | On | 13 | 1 | None | 620.0 | 5-3-4-7 | 1.0 | 2.0 | W | M | None | Heavily pruned to south east leaving unbalanced form | Good | Fair | 20+ | B1 | 7.4 | 174 | None |
| T42 | Sycamore | On | 15 | 2 | None | 570.0 | 6-5-7-6 | 0.0 | 0.0 | None | EM | None | Sub dominant limb to south forming cohesive crown with main stem | Good | Fair | 20+ | B1 | 6.8 | 147 | None |
| T43 | Sycamore | On | 16 | 1 | Yes | 650.0 | 7-7-8-6 | 5.0 | 5.0 | N | M | None | Extensive fire damage to lower stem; recommend reducing tree to habitat stem in mid to long-term | Fair | Poor | 10+ | C1 | 7.8 | 191 | None |
| T44 | Sycamore | On | 16 | 1 | Yes | 650.0 | 6-8-9-7 | 0.0 | 0.0 | None | M | None | Extensive bark damage to northern side of tree - possibly fire damage as per adjacent sycamore; wounds are occluding; prolific basal shoots | Good | Fair | 10+ | C1 | 7.8 | 191 | None |
| T45 | Sycamore | On | 15 | 1 | None | 740.0 | 6-8-8-7 | 4.5 | 5.0 | S | M | None | Pruning work to crown lift above track/land with associated decay around pruning points | Good | Fair | 20+ | B1 | 8.9 | 248 | None |
| T46 | Sycamore | On | 7 | 1 | None | 730.0 | 1-1-1-1 | 4.5 | 0.0 | None | M | None | Topped @7m | Poor | Fair | 10+ | C1 | 8.8 | 241 | None |
| T47 | Oak (English) | On | 5 | 1 | Yes | 700.0 | 3-2-2-3 | 1.5 | 0.0 | None | M | None | Topped @5m | Fair | Fair | 10+ | C1 | 8.4 | 222 | None |
| T48 | Sycamore | On | 13 | 1 | None | 460.0 | 5-4-4-5 | 4.0 | 2.0 | W | EM | None | Pruning work to crown lift above track/land | Good | Fair | 20+ | B1 | 5.5 | 96 | Yes |
| T49 | Sycamore | On | 7 | 1 | None | 310.0 | 1-4-3-3 | 5.5 | 5.5 | S | EM | None | Extensive decay to main stem; recommend reducing to habitat stem | Fair | Poor | <10 | C1 | 3.7 | 43 | Yes |
| T50 | Sycamore | On | 10 | 1 | None | 300.0 | 4-5-4-3 | 3.0 | 3.0 | S | EM | None | Minor decay in upper crown/stems from historic storm damage; pruned to south west for crown lift leaving pruning pegs | Fair | Fair | 10+ | C1 | 3.6 | 41 | Yes |
| T51 | Sycamore | On | 18 | 1 | None | 700.0 | 7-7-7-8 | 3.0 | 3.0 | W | M | None | Pruning work to crown lift above land | Good | Fair | 40+ | A1 | 8.4 | 222 | Yes |
| T52 | Sycamore | On | 18 | 1 | None | 760.0 | 7-8-6-6 | 1.0 | 1.5 | W | M | None | Large 'hazard beam' to north of crown @7m | Good | Fair | 20+ | B1 | 9.1 | 261 | Yes |
| T53 | Sycamore | On | 15 | 1 | None | 540.0 | 3-3-6-6 | 4.5 | 4.5 | E | M | None | Suppressed by adjacent tree | Good | Fair | 20+ | B1 | 6.5 | 132 | Yes |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T54 | Beech (Common) | On | 14 | 1 | None | 450.0 | 4-7-5-6 | 2.0 | 2.0 | S | EM | None | Typical for species | Good | Fair | 20+ | B1 | 5.4 | 92 | Yes |
| T55 | Sycamore | On | 18 | 1 | None | 850.0 | 8-7-8-8 | 3.0 | 3.0 | S | M | None | Large 'hazard beam' to north of crown @6m | Good | Fair | 20+ | B1 | 10.2 | 327 | Yes |
| T56 | Oak (English) | On | 15 | 1 | None | 660.0 | 7-6-7-7 | 2.0 | 2.0 | N | M | None | Forks into 2 stems @3m; pruning work to crown lift above land | Good | Fair | 20+ | B1 | 7.9 | 197 | None |
| T57 | Sycamore | On | 16 | 1 | None | 570.0 | 7-6-7-7 | 3.0 | 3.0 | W | M | None | Typical for species | Good | Fair | 20+ | B1 | 6.8 | 147 | Yes |
| T58 | Sycamore | On | 12 | 1 | None | 480.0 | 4-4-5-6 | 4.0 | 4.0 | W | EM | None | Write fence affixed to lower stem causing tourniquet effect; short extension growth throughout a sparse crown | Fair | Fair | 10+ | C1 | 5.8 | 104 | Yes |
| T59 | Sycamore | On | 16 | 1 | None | 700.0 | 8-8-7-8 | 2.0 | 2.0 | N | M | None | Typical for species | Good | Fair | 20+ | B1 | 8.4 | 222 | Yes |
| T60 | Sycamore | Off | 17 | 1 | Yes | 850.0 | 7-9-9-8 | 0.0 | 0.0 | None | M | None | Typical for species | Good | Fair | 20+ | B1 | 10.2 | 327 | None |
| T61 | Ash (Common) | On | 18 | 1 | None | 960.0 | 10-11-9-8 | 2.0 | 2.0 | N | M | None | Large cavity to south of main stem @2m; large wound site to west of main stem @2.5m; pocket of connective decay appears to run through main stem; inonotus brackets to 1st significant limb | Good | Fair | 20+ | B1 | 11.5 | 417 | None |
| T62 | Hawthorn | Off | 4 | 1 | Yes | 300.0 | 1-1-2-2 | 0.0 | 0.0 | None | EM | None | Typical for species | Good | Fair | 20+ | B1 | 3.6 | 41 | None |
| T63 | Sycamore | Off | 17 | 1 | Yes | 950.0 | 8-10-10-9 | 0.0 | 0.0 | None | M | None | Minor deadwood; slightly sparse crown | Fair | Fair | 20+ | B1 | 11.4 | 408 | None |
| T64 | Sycamore | Off | 18 | 1 | Yes | 900.0 | 8-10-9-9 | 0.0 | 0.0 | N | M | None | Typical for species | Good | Fair | 20+ | B1 | 10.8 | 366 | None |
| T65 | Rowan | On | 4 | 6 | None | 200.0 | 1-2-2-1 | 0.0 | 0.0 | None | SM | None | Typical for species | Fair | Fair | 10+ | C1 | 2.4 | 18 | None |
| T66 | Hawthorn | On | 6 | 12 | Yes | 310.0 | 1-2-2-2 | 0.0 | 0.0 | None | EM | None | Typical for species | Good | Fair | 20+ | B1 | 3.7 | 43 | None |
| T67 | Whitebeam | On | 5 | 10 | None | 320.0 | 1-3-2-2 | 0.0 | 0.0 | None | EM | None | Typical for species | Good | Fair | 20+ | B1 | 3.8 | 46 | None |
| T68 | Whitebeam | On | 5 | 10 | None | 320.0 | 1-3-2-2 | 0.0 | 0.0 | None | EM | None | Typical for species | Good | Fair | 20+ | B1 | 3.8 | 46 | None |
| T69 | Oak (English) | Off | 15 | 2 | Yes | 710.0 | 8-10-9-6 | 2.0 | 2.0 | N | M | None | On boundary; pruning work to crown lift leaving pruning pegs | Good | Fair | 20+ | B1 | 8.5 | 228 | Yes |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T70 | Chestnut (Horse) | Off | 18 | 1 | None | 1220.0 | 8-6-8-8 | 2.0 | 2.5 | W | M | None | Large indiscriminate pruning wounds to east with associated decay; mazegill fungal brackets to east of stem around decay site; recommend tree be reduced to habitat monolith in mid to long term | Fair | Fair | <10 | C1 | 14.6 | 673 | Yes |
| T71 | Sycamore | On | 17 | 1 | None | 480.0 | 6-7-6-5 | 1.0 | 1.0 | S | EM | None | Typical for species | Good | Fair | 20+ | B1 | 5.8 | 104 | Yes |
| T72 | Sycamore | On | 18 | 1 | None | 790.0 | 9-10-8-7 | 0.0 | 0.0 | None | M | None | Typical for species | Good | Fair | 20+ | B1 | 9.5 | 282 | None |
| T73 | Chestnut (Horse) | On | 14 | 1 | None | 660.0 | 8-7-6-6 | 2.0 | 2.5 | W | M | None | Indiscriminate pruning wounds to east with associated decay; decayed wound to south east of main stem @2.5m; radial cracks to bark of main stem; recommend tree be reduced to habitat monolith in mid to long term | Fair | Fair | <10 | C1 | 7.9 | 197 | None |
| T74 | Beech (Common) | On | 20 | 1 | None | 990.0 | 10-10-10-8 | 4.0 | 4.5 | W | M | None | Good example of species; good stem taper; wound site to east of main stem @3.5m | Good | Fair | 40+ | A1 | 11.9 | 443 | Yes |
| T75 | Oak (Turkey) | On | 20 | 1 | None | 990.0 | 9-11-10-10 | 4.0 | 4.0 | W | M | None | Good example of species; heavy crown lift to clear land leaving pruning pegs throughout lower crown | Good | Fair | 40+ | A1 | 11.9 | 443 | Yes |
| T76 | Beech (Common) | On | 20 | 1 | None | 1230.0 | 10-12-11-9 | 2.5 | 3.0 | S | M | None | Good example of species; good stem taper; wound site to north of main stem @2.5m with small ganoderma bracket forming; pruning work to crown lift above land to north of crown | Good | Fair | 40+ | A1 | 14.8 | 684 | Yes |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T77 | Sycamore | On | 20 | 1 | None | 880.0 | 9-9-9-8 | 0.0 | 0.0 | None | M | None | Large cavity to south of main stem from root collar to 3m showing good occlusion/reactionary growth; old pruning work in past to crown lift above entranceway to north & east of lower canopy | Good | Fair | 20+ | B1 | 10.6 | 350 | Yes |
| T78 | Chestnut (Horse) | On | 20 | 1 | None | 880.0 | 7-7-7-7 | 2.0 | 5.5 | S | M | None | Old wound from failed limb to north of main stem @5m; recent minor bark damage to south of main stem from machinery @1.5m | Good | Fair | 20+ | B1 | 10.6 | 350 | Yes |
| T79 | Sycamore | On | 14 | 1 | None | 380.0 | 5-5-6-6 | 5.0 | 5.0 | S | EM | None | Heavy crown lift to clear land; multiple pruning wounds with associated decay | Good | Fair | 20+ | B1 | 4.5 | 65 | Yes |
| T80 | Sycamore | On | 14 | 1 | None | 660.0 | 6-7-8-6 | 0.0 | 0.0 | N | M | None | Pruning wound to north of main stem @2m with associated decay | Good | Fair | 20+ | B1 | 7.9 | 197 | Yes |
| T81 | Chestnut (Horse) | On | 15 | 1 | None | 570.0 | 6-5-6-6 | 2.0 | 2.0 | N | M | None | Old wound to north of main stems @2m with associated decay | Good | Fair | 20+ | B1 | 6.8 | 147 | Yes |
| T82 | Beech (Common) | On | 20 | 1 | None | 820.0 | 8-9-8-7 | 3.0 | 3.0 | W | M | None | Pruning wound to south of main stem @2.5m & to north @3.5m with associated decay; good stem taper | Good | Fair | 40+ | A1 | 9.8 | 304 | Yes |
| T83 | Sycamore | On | 15 | 1 | None | 520.0 | 7-6-7-7 | 2.5 | 2.5 | N | EM | None | Typical for species | Good | Fair | 20+ | B1 | 6.2 | 122 | Yes |
| T84 | Oak (English) | On | 18 | 1 | None | 820.0 | 8-10-9-10 | 5.0 | 5.0 | E | M | None | Large area of basal damage to east; various old wounds throughout crown with associated decay & woodpecker activity | Good | Fair | 20+ | B1 | 9.8 | 304 | Yes |
| T85 | Oak (Turkey) | On | 20 | 1 | None | 1050.0 | 11-12-10-10 | 5.0 | 5.0 | S | M | None | Good example of species; heavy crown lift to clear land leaving pruning pegs throughout lower crown; old wound to northern most scaffold limb with visible cavity @6; woodpecker activity to north of main stem @5m | Good | Fair | 40+ | A1 | 12.6 | 499 | Yes |

**BS5837:2012 TREE SURVEY SCHEDULE**

**LOW FARM, WAKEFIELD**

PROJECT NO: 4958

SURVEYOR: DAVE HOLMES

CLIENT: BOOM POWER

SURVEY DATE: 09-10/03/2022

Barton Hyett Arboricultural Consultants

| Ref | Species | On / off site | Height (m) | No. of Stems | Est diam? | Calc. / Actual Stem Dia. (mm) | Crown radii (m) N-E-S-W | Avg. Canopy Height (m) | 1st branch ht (m) | 1st branch dir. | Life Stage | Special importance | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) | RPA $m^2$ | TPO? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T86 | Lime (Small-leafed) | On | 20 | 1 | Yes | 1000.0 | 7-6-8-6 | 0.0 | 0.0 | None | M | None | Dense basal shoots; debris from ploughing piled around root collar; small elder growing within canopy dripline | Good | Fair | 40+ | A1 | 12.0 | 452 | Yes |
| T87 | Oak (Turkey) | On | 20 | 1 | None | 920.0 | 10-12-11-10 | 5.0 | 5.0 | S | M | None | Good example of species; heavy crown lift to clear land leaving pruning pegs throughout lower crown; debris from ploughing piled around root collar | Good | Fair | 40+ | A1 | 11.0 | 383 | Yes |
| T88 | Sycamore | On | 16 | 1 | None | 970.0 | 7-9-7-9 | 4.0 | 4.0 | S | M | None | Old wound to south of main stem @4.5m; crown lift to clear land leaving large pruning pegs to lower stem; debris from ploughing piled around root collar; small elder growing within root plate | Good | Fair | 20+ | B1 | 11.6 | 426 | Yes |
| T89 | Oak (Turkey) | On | 20 | 1 | None | 1120.0 | 8-13-11-10 | 5.0 | 5.5 | S | M | None | Good example of species; heavy crown lift to clear land leaving pruning pegs throughout lower crown; debris from ploughing & deadwood piled around root collar | Good | Fair | 40+ | A1 | 13.4 | 567 | Yes |
| T90 | Sycamore | On | 20 | 1 | Yes | 850.0 | 10-9-9-10 | 0.0 | 0.0 | None | M | None | Dense basal shoots; debris from ploughing piled around root collar; small elder growing within canopy dripline | Good | Fair | 40+ | A1 | 10.2 | 327 | Yes |
| T91 | Oak (Turkey) | On | 20 | 1 | None | 1030.0 | 10-11-10-9 | 5.0 | 6.0 | W | M | None | Good example of species; heavy crown lift to clear land leaving pruning pegs throughout lower crown; debris from ploughing piled to north east of root collar | Good | Fair | 40+ | A1 | 12.4 | 480 | Yes |
| T92 | Elder | On | 4 | 3 | None | 300.0 | 2-4-3-2 | 0.0 | 0.0 | None | SM | None | Typical for species | Fair | Fair | 10+ | C1 | 3.6 | 41 | None |

**BS5837:2012 TREE SURVEY SCHEDULE**

**LOW FARM, WAKEFIELD**

PROJECT NO: 4958

SURVEYOR: DAVE HOLMES

CLIENT: BOOM POWER

SURVEY DATE: 09-10/03/2022

Barton Hyett Arboricultural Consultants

| Ref | Species | On / off site | Height (m) | No. of Stems | Est diam? | Calc. / Actual Stem Dia. (mm) | Crown radii (m) N-E-S-W | Avg. Canopy Height (m) | 1st branch ht (m) | 1st branch dir. | Life Stage | Special importance | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) | RPA $m^2$ | TPO? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T93 | Chestnut (Horse) | On | 16 | 1 | None | 790.0 | 9-8-8-9 | 0.0 | 1.0 | W | M | None | Bark necrosis to north of main stem from root collar to 1st union; radial cracks evident throughout scaffold limbs; consider reducing to habitat stem in mid to long term | Good | Fair | 20+ | B1 | 9.5 | 282 | Yes |
| T94 | Sycamore | On | 12 | 1 | None | 330.0 | 2-2-3-2 | 0.0 | 0.0 | None | SM | None | Typical for species | Fair | Fair | 10+ | C1 | 3.9 | 49 | Yes |
| T95 | Chestnut (Horse) | On | 18 | 1 | None | 900.0 | 10-9-9-8 | 1.0 | 1.5 | N | M | None | Old wound to north of main stem @1.5m with associated decay | Good | Fair | 20+ | B1 | 10.8 | 366 | Yes |
| T96 | Chestnut (Horse) | On | 16 | 1 | None | 720.0 | 9-9-8-9 | 0.0 | 1.5 | N | M | None | Occluded bark damage to north of main stem @1m | Good | Fair | 20+ | B1 | 8.6 | 235 | Yes |
| T97 | Oak (English) | On | 4 | 2 | None | 230.0 | 2-2-1-1 | 0.0 | 0.0 | None | SM | None | Typical for species | Good | Fair | 10+ | C1 | 2.8 | 24 | None |
| T98 | Oak (English) | On | 5 | 3 | Yes | 700.0 | 4-5-3-3 | 0.0 | 0.0 | None | EM | None | Topped @3m | Good | Fair | 10+ | C1 | 8.4 | 222 | None |
| T99 | Oak (English) | On | 4 | 3 | None | 250.0 | 2-2-2-1 | 0.0 | 0.0 | None | SM | None | 2x small trees forming cohesive crown | Good | Fair | 10+ | C1 | 3.0 | 28 | None |
| T100 | Oak (English) | On | 4 | 2 | None | 140.0 | 1-1-2-1 | 0.0 | 0.0 | None | SM | None | Typical for species | Good | Fair | 10+ | C1 | 1.7 | 9 | None |
| T101 | Sycamore | On | 6 | 7 | Yes | 660.0 | 3-3-3-3 | 0.0 | 0.0 | None | EM | None | Topped @2m | Good | Fair | 10+ | C1 | 7.9 | 197 | None |

**BS5837:2012 TREE SURVEY SCHEDULE**

**LOW FARM, WAKEFIELD**

PROJECT NO: 4958

SURVEYOR: DAVE HOLMES

CLIENT: BOOM POWER

SURVEY DATE: 09-10/03/2022

Barton Hyett Arboricultural Consultants

## GROUPS OF TREES

| Ref | Species | On / off site | Height range (m) | No. of trees | Est diam? | Max stem diam (mm) | Av. Crown radius (m) | Avg. Canopy Height (m) | Life Stage | Special importance | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) | TPO? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G1 | Elm | On | 12 | 40 | None | 340 | 4.0 | 0.0 | SM | None | Thicket of elm to field edge | Good | Fair | 20+ | B2 | 4.1 | Yes |
| G2 | Sycamore; oak | On | 12 | 6 | Yes | 600 | 5.0 | 0.0 | EM | None | Stand of 5x sycamore & 1x oak to field edge; heavily swathed in ivy | Good | Fair | 20+ | B2 | 7.2 | Yes |
| G3 | Sycamore; oak | On | 13 | 2 | None | 600 | 5.0 | 0.0 | EM | None | Early mature sycamore with small self seeded oak growing to west | Good | Fair | 20+ | B2 | 7.2 | Yes |
| G4 | Elm; elder; hawthorn | On | 12 | 40 | None | 280 | 2.0 | 0.0 | SM | None | Thicket to field edge; predominantly elm; upper crown dieback & bark necrosis | Fair | Poor | 10+ | C2 | 3.3 | Yes |
| G5 | Sycamore; oak; ash; elm | On | 5 - 16 | 10 | None | 710 | 6.0 | 1.0 | M | None | 5x sycamore; 3x ash; 1x elm; 1x oak; stand of trees at field edge consisting of 1x mature oak & 2x mature ash with other stems early | Good | Fair | 20+ | B2 | 8.5 | Yes |
| G6 | Sycamore | Off | 8 - 14 | 10 | None | 490 | 5.5 | 1.0 | M | None | Stand of trees at field edge consisting of 5x mature stems & 5x early mature stems | Good | Fair | 20+ | B2 | 5.9 | Yes |
| G7 | Sycamore | Off | 10 - 14 | 7 | None | 520 | 5.5 | 1.0 | M | None | Stand of trees at field edge consisting of 2x mature stems & 5x early mature stems | Good | Fair | 20+ | B2 | 6.2 | Yes |
| G8 | Sycamore | Off | 10 - 12 | 4 | Yes | 600 | 5.5 | 1.0 | M | None | Stand of trees at field edge consisting of 2x mature stems & 2x early mature stems | Good | Fair | 20+ | B2 | 7.2 | Yes |
| G9 | Sycamore | Off | 10 - 12 | 7 | Yes | 600 | 5.5 | 1.0 | M | None | Stand of trees at field edge consisting of 1x mature stem & 6x early mature stems; minor crown dieback within northern most tree | Good | Fair | 20+ | B2 | 7.2 | Yes |
| G10 | Sycamore | Off | 8 - 12 | 8 | None | 410 | 5.0 | 1.0 | EM | None | Stand of early mature trees at field edge | Good | Fair | 20+ | B2 | 4.9 | Yes |
| G11 | Sycamore | Off | 12 - 16 | 4 | None | 660 | 5.0 | 1.0 | M | None | Stand of trees at field edge; 2x mature stems; 1x early mature & 1x young stem | Good | Fair | 20+ | B2 | 7.9 | Yes |
| G12 | Sycamore | Off | 12 | 2 | None | 440 | 4.5 | 0.0 | EM | None | Two stems at field edge; stem to west offsite; stem to west onsite | Good | Fair | 20+ | B2 | 5.3 | None |
| G13 | Sycamore; ash | On | 12 | 3 | None | 150 | 3.0 | 0.0 | EM | None | Three stems at field edge; re-gen from mature boles | Fair | Fair | 10+ | C2 | 1.8 | None |
| G14 | Hawthorn; oak; elder | Off | 5 - 8 | 8 | None | 280 | 2.0 | 0.0 | SM | None | Group of remnant parts of hedge & self seeded trees | Good | Fair | 10+ | C2 | 3.3 | None |
| G15 | Oak; sycamore; hawthorn; hazel | Off | 6 - 12 | 15 | None | 710 | 5.0 | 1.0 | M | None | Stand of trees at field edge | Good | Fair | 20+ | B2 | 8.5 | None |
| G16 | Hazel; holly | On | 9 | 3 | Yes | 200 | 5.0 | 1.0 | M | None | Group of trees spanning drainage ditch | Good | Fair | 20+ | B2 | 2.4 | None |
| G17 | Ash; hawthorn; elder | Off | 1 - 11 | 6 | Yes | 350 | 5.0 | 1.0 | EM | None | Offsite group in private garden | Good | Fair | 20+ | B2 | 4.2 | None |
| G18 | Goat willow; ash; hawthorn | On | 1 - 11 | 10 | None | 250 | 3.5 | 0.5 | SM | None | Self seeded trees colonising scrubby corner of field | Good | Fair | 10+ | C2 | 3.0 | None |

**BS5837:2012 TREE SURVEY SCHEDULE**

**LOW FARM, WAKEFIELD**

PROJECT NO: 4958

SURVEYOR: DAVE HOLMES

CLIENT: BOOM POWER

SURVEY DATE: 09-10/03/2022

Barton Hyett Arboricultural Consultants

| Ref | Species | On / off site | Height range (m) | No. of trees | Est diam? | Max stem diam (mm) | Av. Crown radius (m) | Avg. Canopy Height (m) | Life Stage | Special importance | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) | TPO? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G19 | Oak; sycamore; ash; hawthorn | On | 5 - 15 | 5 | None | 460 | 4.0 | 0.0 | EM | None | 1x oak; 2x ash & 2x sycamore with sporadic thorn hedge; all trees multi stemmed | Good | Fair | 20+ | B2 | 5.5 | None |
| G20 | Oak; sycamore; birch; hawthorn | On | 4 - 15 | 14 | None | 590 | 4.0 | 0.0 | EM | None | Copse on road side/field edge with sporadic thorn hedge | Good | Fair | 20+ | B2 | 7.1 | None |
| G21 | Oak; birch; goat willow; sycamore; hawthorn; blackthorn | On | 4 - 15 | 25 | None | 620 | 4.5 | 0.0 | EM | None | Copse on road side/field edge | Good | Fair | 20+ | B2 | 7.4 | None |
| G22 | Oak; sycamore; ash; blackthorn | On | 4 - 15 | 6 | None | 520 | 5.0 | 0.0 | EM | None | Copse on road side/field edge | Good | Fair | 20+ | B2 | 6.2 | None |
| G23 | Oak; ash; sycamore; hawthorn | On | 4 - 15 | 18 | None | 410 | 5.0 | 0.0 | EM | None | Copse on road side/field edge | Good | Fair | 20+ | B2 | 4.9 | None |
| G24 | Sycamore; elm | On | 4 - 12 | 5 | None | 250 | 3.0 | 0.0 | SM | None | Copse on road side/field edge; crown dieback & bark necrosis to elm | Good | Fair | 20+ | B2 | 3.0 | Yes |
| G25 | Lime | On | 16 | 2 | Yes | 600 | 6.0 | 0.0 | M | None | Typical for species | Good | Fair | 20+ | B2 | 7.2 | Yes |
| G26 | Lime | On | 12 - 14 | 2 | Yes | 450 | 4.5 | 0.0 | EM | None | 1x stem to west with extensive basal shoots; 1x multi stemmed tree to east | Good | Fair | 20+ | B2 | 5.4 | Yes |
| G27 | Elm; ash; goat willow; cypress | On | 2 - 14 | 40 | None | 390 | 4.5 | 0.0 | EM | None | Several dead standing elm; cypress is an unlikely choice to re-gap a rural copse/ | Fair | Fair | 20+ | C2 | 4.7 | Yes |
| G28 | Elm; goat willow; ash | On | 2 - 14 | 50 | None | 290 | 4.5 | 0.0 | EM | None | Several dead standing elm | Fair | Fair | 20+ | C2 | 3.5 | Yes |
| G29 | Elm | Off | 14 | 2 | Yes | 400 | 4.5 | 0.0 | EM | None | 2x multi stemmed trees | Good | Fair | 20+ | B2 | 4.8 | None |
| G30 | Ash; goat willow | Off | 15 | 2 | Yes | 600 | 7.0 | 0.0 | M | None | 2x multi stemmed trees | Good | Fair | 20+ | B2 | 7.2 | None |
| G31 | Birch | Off | 12 | 3 | Yes | 350 | 5.0 | 1.0 | EM | None | Typical for species | Good | Fair | 20+ | B2 | 4.2 | None |
| G32 | Goat willow; elder | On | 2 - 6 | 3 | None | 120 | 2.5 | 0.0 | SM | None | 2x willow; 1x elder; within Conservation Area | Fair | Fair | 10+ | C2 | 1.5 | None |
| G33 | Goat willow; birch | Off | 8 | 6 | Yes | 250 | 3.0 | 0.0 | EM | None | Self seeded group adjacent to existing entranceway/field edge; within Conservation | Fair | Fair | 10+ | C2 | 3.0 | None |
| G34 | Ash | On | 15 | 2 | None | 490 | 7.0 | 1.0 | EM | None | Typical for species; within Conservation Area | Good | Fair | 20+ | B2 | 5.9 | None |
| G35 | Ash; hawthorn | On | 10 - 14 | 2 | None | 430 | 6.5 | 1.0 | EM | None | 2x trees forming cohesive crown; within Conservation Area | Good | Fair | 20+ | B2 | 5.2 | None |
| G36 | Ash; goat willow; hawthorn; elder | On | 8 - 12 | 14 | None | 420 | 4.5 | 0.0 | EM | None | Remnant sections of hedge/self seeded group; within Conservation Area | Good | Fair | 20+ | B2 | 5.0 | None |
| G37 | Oak | On | 14 | 3 | None | 470 | 6.0 | 1.0 | EM | None | Group forming cohesive crown; 1x tree onsite; 2x trees offsite; within Conservation | Good | Fair | 20+ | B2 | 5.6 | None |

**BS5837:2012 TREE SURVEY SCHEDULE**

**LOW FARM, WAKEFIELD**

PROJECT NO: 4958

SURVEYOR: DAVE HOLMES

CLIENT: BOOM POWER

SURVEY DATE: 09-10/03/2022

Barton Hyett Arboricultural Consultants

| Ref | Species | On / off site | Height range (m) | No. of trees | Est diam? | Max stem diam (mm) | Av. Crown radius (m) | Avg. Canopy Height (m) | Life Stage | Special importance | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) | TPO? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G38 | Oak; sycamore; holly; hawthorn; elder | On | 16 | 40 | None | 1000 | 7.0 | 1.0 | M | None | Group forming cohesive crowns; flanking drainage ditch; predominantly oak & sycamore | Good | Fair | 20+ | B2 | 12.0 | None |
| G39 | Sycamore; oak; birch; hornbeam | On | 16 | 17 | None | 720 | 6.0 | 1.0 | M | None | Group forming cohesive crowns; predominantly oak & sycamore | Good | Fair | 20+ | B2 | 8.6 | None |
| G40 | Ash | On | 15 | 2 | None | 820 | 7.0 | 2.5 | M | None | Trees adjacent to flooded pit hole; hollowing to stems - basal cavity visible to east of root collar on eastern tree & visible woodpecker activity; pronounced hollowing to western most tree; upper crown of western most tree formed by re-gen from decayed bole | Good | Fair | 20+ | B2 | 9.8 | None |
| G41 | Oak; ash; hawthorn; elder | On | 16 | 50 | None | 630 | 6.0 | 1.0 | M | None | Group forming cohesive crowns; flanking drainage ditch; predominantly oak; ash & | Good | Fair | 20+ | B2 | 7.6 | None |
| G42 | Oak; elder | On | 17 | 4 | None | 640 | 6.0 | 1.0 | M | None | 2x mature oak; 2x early mature elder; tree to east has been pruned leaving a large pruning peg & unbalanced crown | Good | Fair | 20+ | B2 | 7.7 | None |
| G43 | Sycamore; beech | On | 12 - 16 | 10 | None | 610 | 5.5 | 1.0 | EM | None | 8x sycamore & 2x beech; building materials stored within plot | Good | Fair | 20+ | B2 | 7.3 | Yes |
| G44 | Sycamore; beech | On | 8 - 14 | 3 | None | 510 | 5.0 | 1.0 | EM | None | All 3 stems show decay to main stems | Fair | Fair | 10+ | C2 | 6.1 | Yes |
| G45 | Sycamore | On | 14 - 16 | 2 | None | 700 | 6.0 | 2.0 | M | None | Pruning work to crown lift above land | Good | Fair | 20+ | B2 | 8.4 | Yes |
| G46 | Oak; hawthorn | On | 12 | 4 | None | 630 | 5.0 | 1.0 | EM | None | 2x oak with 2x remnant thorn; decay to main stem of northern most oak | Good | Fair | 20+ | B2 | 7.6 | None |
| G47 | Sycamore; elder | On | 2 - 15 | 10 | None | 560 | 5.0 | 1.0 | EM | None | 6x sycamore with 4x elder; growing within sunken pit | Good | Fair | 20+ | B2 | 6.7 | None |
| G48 | Sycamore; oak; ash; elm; holly; elder | Off | 2 - 12 | 14 | None | 390 | 4.0 | 1.0 | EM | None | Sample area; scrubby end of woodland feature abutting survey site | Good | Fair | 20+ | B2 | 4.7 | None |
| G49 | Sycamore; ash | On | 14 | 11 | None | 490 | 5.0 | 1.0 | M | None | Stand of trees at field edge; predominantly sycamore | Good | Fair | 20+ | B2 | 5.9 | None |
| G50 | Sycamore; oak; Corsican pine; elder; rhododendron | On | 2 - 14 | 150 | None | 540 | 5.0 | 1.0 | M | None | Stand of trees at field edge flanking forest ride; trees occur to both sides of ha-ha wall; standing water within ditch in places; beehives to east of plot | Good | Fair | 20+ | B2 | 6.5 | None |
| G51 | Oak; birch; sycamore | Off | 8 - 10 | 10 | Yes | 300 | 3.0 | 1.5 | EM | None | Scrubby group of young trees on adjacent site; area appears to have been recently | Good | Fair | 20+ | B2 | 3.6 | None |
| G52 | Horse chestnut; sycamore; elder | On | 2 - 16 | 10 | None | 790 | 6.0 | 1.5 | M | None | Stand of trees at field edge; predominantly sycamore with 1x chestnut to south; elder occurs as understory | Good | Fair | 20+ | B2 | 9.5 | Yes |

**BS5837:2012 TREE SURVEY SCHEDULE**

**LOW FARM, WAKEFIELD**

PROJECT NO: 4958

SURVEYOR: DAVE HOLMES

CLIENT: BOOM POWER

SURVEY DATE: 09-10/03/2022

Barton Hyett Arboricultural Consultants

| Ref | Species | On / off site | Height range (m) | No. of trees | Est diam? | Max stem diam (mm) | Av. Crown radius (m) | Avg. Canopy Height (m) | Life Stage | Special importance | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) | TPO? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G53 | Horse chestnut; sycamore; oak; beech; elder | On | 2 - 16 | 33 | None | 810 | 6.0 | 1.5 | M | None | Stand of trees at field edge with access track running through group; predominantly sycamore; elder occurs as understory | Good | Fair | 20+ | B2 | 9.7 | Yes |
| G54 | Ash; elm | On | 10 - 12 | 3 | None | 430 | 5.0 | 0.0 | EM | None | Stand of trees at field edge | Fair | Fair | 20+ | B2 | 5.2 | None |
| G55 | Oak; ash; elm | Off | 8 - 14 | 20 | None | 410 | 6.0 | 0.0 | EM | None | Stand of trees at field edge on adjacent site | Fair | Fair | 20+ | B2 | 4.9 | None |
| G56 | Sycamore; beech; horse chestnut; cherry; lime | On | 8 - 16 | 30 | None | 980 | 6.0 | 1.0 | EM | None | Stand of trees at field edge; predominantly early mature sycamore; mature beech; sycamore & chestnut (1 of each) to west of | Good | Fair | 20+ | B2 | 11.8 | Yes |
| G57 | Lime; beech; elm; elder | On | 8 - 16 | 38 | None | 560 | 5.5 | 1.0 | EM | None | Stand of trees at field edge/roadside; predominantly early mature lime & beech with multi stemmed elm; sporadic elder | Good | Fair | 20+ | B2 | 6.7 | Yes |
| G58 | Sycamore; beech; elm; cherry; elder | On | 6 - 16 | 30 | None | 960 | 6.0 | 1.0 | M | None | Stand of trees at field edge/roadside; predominantly mature sycamore; 1x mature beech to north west of plot; cherry; elm & elder occur as understory | Good | Fair | 20+ | B2 | 11.5 | Yes |
| G59 | Sycamore; horse chestnut; beech; elder | On | 6 - 17 | 41 | None | 1100 | 6.0 | 1.0 | M | None | Stand of trees forming avenue along access track; elder occurs as limited understory | Good | Fair | 40+ | A2 | 13.2 | Yes |
| G60 | Horse chestnut; sycamore; elder | On | 2 - 16 | 17 | None | 620 | 6.0 | 1.5 | M | None | Stand of trees forming avenue along access track; predominantly sycamore | Good | Fair | 20+ | B2 | 7.4 | Yes |
| G61 | Elm; goat willow | On | 2 - 15 | 20 | None | 440 | 4.5 | 0.0 | EM | None | Small stand of predominantly elm; dead stems to south east of plot | Fair | Fair | 10+ | C2 | 5.3 | Yes |
| G62 | Sycamore; beech; horse chestnut; elder | On | 2 - 18 | 18 | None | 1000 | 7.0 | 2.0 | M | None | Stand of trees forming avenue along access track; predominantly sycamore; Japanese knotweed stems within plot & to east | Good | Fair | 20+ | B2 | 12.0 | Yes |
| G63 | Sycamore; beech; cherry; horse chestnut; holly; elder | On | 2 - 18 | 40 | None | 880 | 6.0 | 1.0 | M | None | Stand of trees at field edge/roadside; predominantly sycamore; 1x mature horse chestnut to west of plot showing heavily decayed main stem; holly & elder occur as | Good | Fair | 20+ | B2 | 10.6 | Yes |
| G64 | Sycamore; horse chestnut; elm | On | 4 - 14 | 3 | None | 600 | 6.0 | 0.0 | M | None | Closely grown sycamore & chestnut forming cohesive crown; small elm growing beneath canopy dripline | Good | Fair | 20+ | B2 | 7.2 | Yes |
| G65 | Beech; sycamore; oak; ash; horse chestnut; cherry; elm; elder; hawthorn | On | 2 - 18 | 70 | None | 1000 | 6.0 | 1.5 | M | None | Stand of trees at field edge/roadside; predominantly sycamore & beech with elm; thorn & elder occurring as understory | Good | Fair | 20+ | B2 | 12.0 | Yes |
| G66 | Sycamore; goat willow | On | 4 | 2 | None | 90 | 3.0 | 0.0 | SM | None | 1x multi stemmed willow & 1x sycamore which is young re-gen from old bole | Fair | Fair | 10+ | C2 | 1.1 | None |

**BS5837:2012 TREE SURVEY SCHEDULE**

**LOW FARM, WAKEFIELD**

PROJECT NO: 4958

SURVEYOR: DAVE HOLMES

CLIENT: BOOM POWER

SURVEY DATE: 09-10/03/2022

Barton Hyett Arboricultural Consultants

| Ref | Species | On / off site | Height range (m) | No. of trees | Est diam? | Max stem diam (mm) | Av. Crown radius (m) | Avg. Canopy Height (m) | Life Stage | Special importance | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) | TPO? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G67 | Birch; goat willow; oak | On | 2 - 8 | 11 | None | 150 | 3.0 | 0.0 | SM | None | 1x early mature multi stemmed willow; 1x semi mature birch; remaining stems made up of young willow; birch & oak | Fair | Fair | 10+ | C2 | 1.8 | None |

## HEDGES

| Ref | Species | On / off site | Av. Height (m) | Av. width (m) | Av. Stem diam (mm) | Avg. Canopy Height (m) | Life Stage | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H1 | Hawthorn; blackthorn; elder | On | 4.5 | 2.5 | 90.0 | 0.0 | EM | Outgrown hedge; sporadic gaps to west; sides flailed & top growth left unchecked | Good | Good | 20+ | B2 | 1.1 |
| H2 | Hawthorn; blackthorn; elder; hazel | On | 5 | 3.0 | 80.0 | 0.0 | EM | Outgrown hedge; sides flailed & top growth left unchecked | Good | Fair | 20+ | B2 | 1.0 |
| H3 | Hawthorn; hazel | On | 4.5 | 2.5 | 90.0 | 0.0 | EM | Outgrown hedge; sides flailed & top growth left unchecked | Good | Good | 20+ | B2 | 1.1 |
| H4 | Hawthorn | On | 4 | 2.0 | 80.0 | 0 | EM | Outgrown hedge; sides flailed & top growth left unchecked | Good | Fair | 20+ | B2 | 1.0 |
| H5 | Hawthorn; elder | On | 2 | 1.5 | 90.0 | 0 | M | Predominantly thorn; partially choked with brambles; sporadic gaps where elder occurs | Good | Fair | 20+ | B2 | 1.1 |
| H6 | Hawthorn | On | 2 | 1.5 | 90 | 0 | M | 3x mature remnant stems to far west of hedge; maintained by flail | Good | Fair | 40+ | B2 | 1.1 |
| H7 | Hawthorn | On | 2 | 1.5 | 70 | 0 | EM | Maintained by flail | Good | Fair | 40+ | B2 | 0.8 |
| H8 | Hawthorn; elder | On | 2 | 1.5 | 70 | 0 | EM | Maintained by flail; predominantly thorn | Good | Fair | 40+ | B2 | 0.8 |
| H9 | Hawthorn | On | 2 | 1.5 | 70 | 0 | EM | Maintained by flail | Good | Fair | 40+ | B2 | 0.8 |
| H10 | Hawthorn; oak | On | 5 | 5.0 | 90 | 0 | EM | Remnant stems of hedgerow forming sporadic group which spans drainage ditch; 1x oak stem | Good | Fair | 20+ | B2 | 1.1 |
| H11 | Hawthorn | On | 5 | 5.0 | 90 | 0 | EM | Remnant stems of hedgerow forming sporadic group which spans drainage ditch | Good | Fair | 20+ | B2 | 1.1 |
| H12 | Hawthorn; oak; goat willow | On | 5 | 5.0 | 90 | 0 | EM | Hedge spans drainage ditch; predominantly thorn | Good | Fair | 20+ | B2 | 1.1 |
| H13 | Hawthorn; lilac | On | 5 | 3.0 | 90 | 0 | M | Remnant section of hedge at scrubby field corner | Good | Fair | 20+ | B2 | 1.1 |
| H14 | Hawthorn; holly; sycamore | On | 5 | 3.0 | 90 | 0 | M | Sides flailed & top growth left unchecked; predominantly thorn; 2x sycamore approx 7m in height | Good | Fair | 20+ | B2 | 1.1 |
| H15 | Hawthorn | On | 5 | 3.0 | 90 | 0 | M | Sides flailed & top growth left unchecked | Good | Fair | 20+ | B2 | 1.1 |
| H16 | Hawthorn | Off | 6.0 | 4.0 | 110 | 0.0 | M | Outgrown/derelict hedge; heavily swathed in ivy | Good | Fair | 20+ | B2 | 1.3 |
| H17 | Hawthorn | Off | 6.0 | 3.0 | 90 | 0.0 | M | Outgrown/derelict hedge; swathed in ivy | Good | Fair | 20+ | B2 | 1.1 |

**BS5837:2012 TREE SURVEY SCHEDULE**

**LOW FARM, WAKEFIELD**

PROJECT NO: 4958

SURVEYOR: DAVE HOLMES

CLIENT: BOOM POWER

SURVEY DATE: 09-10/03/2022

Barton Hyett Arboricultural Consultants

| Ref | Species | On / off site | Av. Height (m) | Av. width (m) | Av. Stem diam (mm) | Avg. Canopy Height (m) | Life Stage | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H18 | Hawthorn; holly; goat willow; sycamore; ash | On | 5.0 | 3.0 | 90 | 0.0 | EM | Outgrown hedge | Good | Fair | 20+ | B2 | 1.1 |
| H19 | Hawthorn; holly; goat willow; sycamore; ash | On | 5.0 | 3.0 | 90 | 0.0 | M | Sides flailed & top growth left unchecked; predominantly thorn | Good | Fair | 20+ | B2 | 1.1 |
| H20 | Hawthorn; elder; sycamore; elm | On | 4.5 | 2.5 | 70 | 0.0 | EM | Sides flailed & top growth left unchecked; predominantly thorn; 2x small trees within west of hedge approximately 8m in height (1x sycamore & 1x elm) | Good | Fair | 40+ | B2 | 0.8 |
| H21 | Blackthorn; goat willow; hazel | On | 6.0 | 5.0 | 90 | 0.0 | EM | Outgrown hedge forming dense thicket; predominantly thorn | Good | Fair | 20+ | B2 | 1.1 |
| H22 | Hawthorn; holly; elder | On | 2.0 | 1.5 | 70 | 0.0 | EM | Maintained by flail; predominantly thorn; gaps appearing where elder is present | Good | Fair | 20+ | B2 | 0.8 |
| H23 | Hawthorn | On | 1.5 | 1.0 | 70 | 0.0 | EM | Maintained by flail; sporadic gaps | Good | Fair | 20+ | B2 | 0.8 |
| H24 | Hawthorn; elder | On | 1.5 | 1.0 | 70 | 0.0 | EM | Maintained by flail; sporadic gaps; predominantly thorn | Good | Fair | 20+ | B2 | 0.8 |
| H25 | Hawthorn; elder | On | 1.5 | 1.0 | 70 | 0.0 | EM | Maintained by flail; sporadic gaps; predominantly thorn | Good | Fair | 20+ | B2 | 0.8 |
| H26 | Hawthorn; holly | On | 4.5 | 3.0 | 110 | 0.0 | M | Remnant part of hedge; mature thorn with young thorn & holly | Good | Fair | 20+ | B2 | 1.3 |
| H27 | Hawthorn | On | 3.5 | 2.0 | 220 | 0.0 | EM | Remnant parts of derelict hedge | Good | Fair | 20+ | B2 | 2.6 |
| H28 | Hawthorn | On | 1.5 | 1.0 | 50 | 0.0 | SM | Maintained by flail; sporadic gaps | Good | Fair | 20+ | C2 | 0.6 |
| H29 | Hawthorn; elder | On | 1.5 | 1.0 | 50 | 0.0 | SM | Maintained by flail; sporadic gaps; predominantly thorn | Good | Fair | 20+ | C2 | 0.6 |
| H30 | Hawthorn | On | 4.5 | 3.0 | 100 | 0.0 | M | Remnant parts of hedge; topped to south adjacent to 11kv overhead power lines | Good | Fair | 20+ | B2 | 1.3 |
| H31 | Hawthorn | On | 4.5 | 3.5 | 120 | 0.0 | M | Remnant parts of derelict hedge | Good | Fair | 20+ | B2 | 1.5 |
| H32 | Hawthorn; sycamore | On | 4.0 | 2.5 | 80 | 0.0 | M | Remnant parts of derelict hedge | Fair | Fair | 10+ | C2 | 1.0 |
| H33 | Hawthorn; sycamore; elder | On | 4.0 | 2.5 | 50 | 0.0 | Y | Sporadic linear feature; young re-gen from early mature stems; predominantly sycamore | Fair | Fair | 10+ | C2 | 0.6 |

**BS5837:2012 TREE SURVEY SCHEDULE**

**LOW FARM, WAKEFIELD**

PROJECT NO: 4958

SURVEYOR: DAVE HOLMES

CLIENT: BOOM POWER

SURVEY DATE: 09-10/03/2022

Barton Hyett Arboricultural Consultants

## WOODLAND

| Ref | Species | On / off site | Height range (m) | No. of trees | Est diam? | Max stem diam (mm) | Av. Crown radius (m) | Avg. Canopy Height (m) | Life Stage | Special importance | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) | ASNW Buffer | TPO? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W1 | Oak; sycamore; holly; hazel; elder | On | 2 - 15 | 80 | None | 690 | 6.0 | 1.0 | M | None | Covert to field edge; predominantly oak with sycamore; other species occur as understory which is dominated by elder; stems to far west of plot are offsite (to west of wall); Japanese knotweed to northern boundary of plot; potential badger sett to north | Good | Fair | 40+ | B2 | 8.3 | N/A | Yes |
| W2 | Oak; Scot's pine; ash; sycamore; holly; hawthorn | On | 2 - 15 | 500 | Yes | 550 | 5.5 | 1.0 | EM | None | Hillhouse Wood. Predominantly oak with Scot's pine; sporadic ash & sycamore; other species occur as limited understory; buildings within plot at approximate centre; remnant sections of derelict thorn hedge around perimeter of plot | Good | Good | 40+ | A2 | 6.6 | N/A | None |
| W3 | Oak; beech; sweet chestnut; ash; birch; sycamore; elder | On | 2 - 18 | 60 | None | 730 | 6.0 | 1.0 | M | None | Predominantly oak; beech & chestnut; sporadic ash; birch & sycamore; elder occurs as limited understory; unmettled track to east of plot | Good | Good | 40+ | A2 | 8.8 | N/A | Yes |
| W4 | Sycamore; oak; birch ash; hawthorn; elder | On | 2 - 16 | 500 | Yes | 600 | 5.0 | 1.0 | M | None | Gulley Wood. Predominantly oak & sycamore; thorn & elder occurs as limited understory; old workings to north west corner of plot; Japanese knotweed at south west corner of plot; overlapped by Conservation Area | Good | Fair | 40+ | B2 | 7.2 | N/A | Yes |
| W5 | Oak; sycamore; birch; elm; hornbeam; holly; elder; rhododendron | On | 2 - 18 | 600 | None | 660 | 6.0 | 1.0 | EM | ASNW | Harry Royd Clough Wood. Predominantly oak & sycamore with birch; elm & hornbeam; other species occur as understory | Good | Good | 40+ | A2 | 7.9 | 11.0 | None |
| W6 | Sycamore; oak; birch; elm; holly; elder | On | 2 - 18 | 50 | None | 630 | 5.0 | 1.0 | EM | None | Predominantly sycamore with birch; elm & oak; other species occur as understory | Good | Fair | 40+ | B2 | 7.6 | N/A | None |
| W7 | Oak; sycamore; elder | On | 16 | 65 | None | 750 | 5.0 | 1.0 | EM | None | Predominantly oak; with elder as limited understory | Good | Fair | 40+ | B2 | 9.0 | N/A | None |

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**LOW FARM, WAKEFIELD**

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SURVEY DATE: 09-10/03/2022

Barton Hyett Arboricultural Consultants

| Ref | Species | On / off site | Height range (m) | No. of trees | Est diam? | Max stem diam (mm) | Av. Crown radius (m) | Avg. Canopy Height (m) | Life Stage | Special importance | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) | ASNW Buffer | TPO? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W8 | Oak; sycamore; birch; goat willow ; hawthorn; elder | On | 16 | 250 | None | 990 | 6.0 | 2.0 | EM | None | Pit Hill Plantation. Predominantly oak & sycamore with birch & willow; thorn & elder occur as limited understory; old workings within site; recent mechanical excavations; burning of detritus & storage of surplus building materials; access track direct from road (temporarily blocked) | Good | Fair | 40+ | B2 | 11.9 | N/A | Yes |
| W9 | Oak; sycamore; hornbeam; ash; elm; beech; birch; holly; elder | On | 16 | 200 | None | 630 | 6.0 | 2.0 | EM | None | Predominantly oak & sycamore with birch; beech; ash elm & hornbeam; holly & elder occur as limited understory | Good | Fair | 40+ | A2 | 7.6 | N/A | Yes |
| W10 | Sycamore; ash; elm; oak; sweet chestnut; holly; elder; hawthorn; yew | On | 16 | 300 | None | 660 | 6.0 | 2.0 | M | None | The Rookery. Predominantly oak & sycamore with sporadic sweet chestnut; holly & elder occur as limited understory; group abuts lake on northern boundary | Good | Fair | 40+ | A2 | 7.9 | N/A | Yes |
| W11 | Oak; sycamore; Scot's pine; beech; elm; blackthorn; holly; elder; rhododendron | On | 16 | 400 | None | 740 | 6.0 | 2.0 | M | None | Fishponds Plantation. Predominantly oak; Scot's pine; beech & sycamore; other species occur as understory; Japanese knotweed located to eastern boundary & also adjacent to ponds within plot; derelict structure to north west 'nib' of plot | Good | Fair | 40+ | A2 | 8.9 | 11.0 | None |
| W12 | Larch; birch; sycamore; elm; holly; elder | On | 16 | 400 | None | 410 | 4.5 | 0.5 | EM | ASNW | Denby Wood. Predominantly larch with birch & sycamore; other species occur as understory; sample area of group edge | Good | Fair | 20+ | B2 | 4.9 | 9.5 | None |
| W13 | Beech; Corsican pine; sycamore; elm; elder | On | 16 | 250 | None | 480 | 5.0 | 2.0 | EM | ASNW | Denby Wood. Predominantly beech & pine with occasional sycamore; other species occur as limited understory; sample area of group edge | Good | Fair | 40+ | B2 | 5.8 | 10.0 | None |
| W14 | Oak; sycamore; Norway spruce; Scot's pine; larch; holly; rhododendron | Off | 2 - 18 | 400 | None | 640 | 6.0 | 1.0 | EM | ASNW | Grange Wood. Predominantly oak; sycamore; spruce; pine & larch; other species occur as understory; ha-ha wall to southern boundary; outlying oak to south have been topped for 11kv overhead power line | Good | Good | 40+ | A2 | 7.7 | 11.0 | None |

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| Ref | Species | On / off site | Height range (m) | No. of trees | Est diam? | Max stem diam (mm) | Av. Crown radius (m) | Avg. Canopy Height (m) | Life Stage | Special importance | General Observations | Health & vitality | Struct. cond. | Estimated Remaining Contribution (Years) | BS5837 Category | RPA Radius (m) | ASNW Buffer | TPO? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W15 | Corsican pine; Norway spruce; oak; sycamore; elder; rhododendron | On | 16 | 400 | None | 410 | 4.5 | 0.5 | EM | None | Predominantly pine & oak; other species occur as understory | Good | Fair | 20+ | **B2** | 4.9 | N/A | None |
| W16 | Sycamore; birch; oak; larch; holly; rhododendron | On | 16 | 400 | None | 440 | 5.0 | 2.5 | EM | None | Predominantly larch with birch & sycamore; occasional oak; other species occur as understory | Good | Fair | 20+ | **B2** | 5.3 | N/A | None |

## Appendix 4: Contact Details

| Name | Position | Company | Contact |
|---|---|---|---|
| Sarah Cullen | Client | Boom Developments Ltd. | |
| | Tree Officer | | |
| Alan Thompson | Arboricultural Consultant | Arbtech Consulting Ltd. | 01244 661170<br>07703 676216<br>at@arbtech.co.uk<br>https://arbtech.co.uk |
| | Site Manager | | |
| | Main contractor | | |

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| Arbtech AMS 01 Rev B | Alan Thompson | - | Arboricultural Consultant | 1 | 04/07/2023 |

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