

**ARBORICULTURAL REPORT  
AND  
ARBORICULTURAL IMPACT ASSESSMENT  
to BS 5837:2012  
at  
71 Coach Road  
Cowcliffe  
Huddersfield  
West Yorkshire  
HD2 2NW**

**Client:**  
Mr and Mrs G Hollingdrake

**Client Address:**  
Jilley Royde House  
Huddersfield  
West Yorkshire  
HD2 2FH

**JCA Ref:**  
22167/AJB



**JCA** Limited  
Arboricultural & Ecological Consultants

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## 1. Introduction

### 1.1 Purpose of the Report

- 1.1.1 JCA Limited has been instructed by **Mr and Mrs G Hollingdrake** to survey the trees at **71 Coach Road, Cowcliffe, Huddersfield**, and prepare the findings in a report.
- 1.1.2 This report provides detailed, independent, arboricultural advice on the trees in the context of potential development, conducted in accordance with the guidelines contained within BS5837: 2012 '*Trees in relation to design, demolition and construction – Recommendations*' (BS5837:2012).
- 1.1.3 The specific design of the proposed development has been considered within the Arboricultural Impact Assessment in **Section 4** and is detailed on the Arboricultural Implications Plan at **Appendix 6**.

### 1.2 Terms of Reference

- 1.2.1 For this purpose, a topographical survey (**Ref: 5870CM**) has been supplied, which forms the basis for the Tree Constraints Plan at **Appendix 5**. The topographical survey, along with all other documents supplied to JCA, is assumed to be correct. No checking of such documents will be undertaken and JCA cannot be held responsible for incorrect data supplied by other parties.

### 1.3 Tree Survey Details and Methodology

- 1.3.1 The survey took place during July 2024 and was conducted by **Andrew Bussey** *LANTRA Accredited PTI*.
- 1.3.2 During this survey, all trees were inspected from ground level. Further investigations, such as a climbed inspection or a decay detection survey, have not been undertaken.
- 1.3.3 Only those trees within the site boundary with a stem diameter above 75mm have been included. Where applicable, trees outside the site boundary, but close enough to be affected by a proposed development, are also included.
- 1.3.4 Tree data was collected in accordance with **Section 4.4** and **Section 4.5** of BS5837: 2012. Full details of all trees surveyed are recorded in the tables at **Appendix 1** which can be cross referenced with the Tree Constraints Plan at **Appendix 5**. A full explanation of the tables can be found at **Appendix 2**.
- 1.3.5 Measurements were obtained using clinometers, specialist tapes or electronic distometers. Where this was not possible, due to restricted access or other mitigating circumstances, measurements were estimated to the best ability of the surveyor. Where measurements have been estimated, these are clearly highlighted at **Appendix 1** with a '#' symbol.

## 2. Status of the Trees

- 2.1 A check was made with **Kirklees Metropolitan Borough Council** in MONTH 2024 to determine whether any of the trees surveyed as part of this report are subject to any statutory controls.
- 2.2 We are informed that **T4** and **T5** are subject to a Woodland Tree Preservation Order (**TPO Ref: HU1/49/w2**).
- 2.3 No work must be undertaken to those trees subject to a Tree Preservation Order until an approved Works to Protected Trees application has been granted, or until planning permission has been granted which includes accurately specified tree works.
- 2.4 Prior to any works being undertaken to trees, those instructing and proposing to carry out the work should satisfy themselves that all appropriate consents are in place to prevent potential breach of legislation.
- 2.5 The presence of a Tree Preservation Order (TPO) represents the Local Authority's desire to retain trees within the landscape. As such, trees covered by a TPO are generally more likely to require retention within a proposed scheme and this should be taken into account during the design process. In some cases, the removal of TPO trees may be agreed upon, providing the benefits of the proposed development are deemed greater than the material loss of the trees. The value of existing vegetation is just one factor in the decision making process; all benefits of the proposed development will be taken into consideration in the usual manner.

## **3. Tree Survey Details**

### **3.1 Tree Retention Categories**

- 3.1.1 In total, **4** individual trees and **1** group of trees were surveyed in accordance with BS5837: 2012. Of these, **2** trees were considered to fall into retention category 'A' and **2** trees and **1** group of trees were considered to fall into retention category 'C'. For a full explanation of the retention categories, please refer to **Appendix 2 (Section A2.3)**.
- 3.1.2 As a general rule, those trees listed as retention category 'A' are the most valuable items of vegetation and as such the removal of these is likely to be met with resistance by the Local Planning Authority (LPA).
- 3.1.3 Those items listed as retention category 'C' are of lesser value and the removal of these is generally less likely to be met with resistance by the LPA.

### **3.2 Recommended Work for Arboricultural Reasons**

- 3.2.1 No tree works are required under the current context of the site. However, all trees which are to be retained within the proposed development should be inspected on a regular basis in the interests of risk management. They should have a biennial re-inspection regime, ideally with each inspection being undertaken during a different season, in order to observe any defects, pests and diseases that are only evident at certain times of year.

## 4. Arboricultural Impact Assessment (AIA)

### 4.1 Proposed Development

- 4.1.1 The proposed development will consist of the demolition of the existing building and site features and the construction of a detached, two storey dwelling with a lower ground floor.
- 4.1.2 We have been supplied with **Drawing No. 24-033-05 Planning - site plan**, which details the proposed development. The tree data has been overlaid onto the proposed designs to create the Arboricultural Implications Plan, which can be found at **Appendix 6**. This provides the basis for which this Arboricultural Impact Assessment has been prepared.
- 4.1.3 All tree works required to accommodate the proposals are detailed in *italics* in the recommendation columns of the tables at **Appendix 1**.

### 4.2 Tree Removals for Development

- 4.2.1 In order to facilitate the proposed development, it will be necessary to remove **T1** and **G2**, each of which are considered to be low value trees which fall into retention category 'C'.

### 4.3 Pruning for Development

- 4.3.1 In this case, no pruning works are required to accommodate the proposed development.

### 4.4 Temporary Protection Measures

#### 4.4.1 The Protective Barrier

- 4.4.1.1 In order to ensure the effective protection of retained trees during development, protective fencing will be installed, in accordance with BS5837: 2012. This will be the first job on site following the tree removals. The fencing will be positioned to protect the entire **Root Protection Area (RPA)** of the retained trees, in order to create a **Construction Exclusion Zone (CEZ)**.

## **4.5 Implications for Retained Trees**

### **4.5.1 Works within the RPA**

4.5.1.1 No construction activities are required within the root protection areas of trees to be retained on, or adjacent to this site.

### **4.5.2 Demolition**

4.5.2.1 In this case, no significant demolition activities are required adjacent to retained trees and as such, no mitigation measures are considered necessary.

### **4.5.3 Access/Construction of Hard Surfacing**

4.5.3.1 In this case, the proposed scheme does not require the construction of hard surfaces within the RPA of retained trees. As such no specialised construction techniques/surface treatments will be required for this purpose.

### **4.5.4 Construction / Foundation Design**

4.5.4.1 The footprint of the proposed building does not encroach into the RPA of retained trees. As such no specialist construction or foundation methods are considered necessary for the sole purpose of preventing damage to trees.

4.5.4.2 Despite this, specialist foundation designs may still be required for other reasons, and advice should always be sought from a suitably qualified structural expert. The water demand of trees can be an important consideration when determining the appropriate foundation design. Because of this, water demands for the trees identified on this site are included at **Appendix 1**, in accordance with current **NHBC Standards**, for use by the appointed structural expert.

### **4.5.5 Tree Shade**

4.5.5.1 Due to the location of the trees, and their distance from to the proposed building, issues related to shading are considered to be unlikely and do not require mitigation.

### **4.5.6 Utilities**

4.5.6.1 In this case the routing of proposed utilities is situated outside the RPAs of retained trees. As such, no mitigation actions are considered necessary to mitigate potential damage to tree roots.

### **4.5.7 Site Facilities**

4.5.7.1 The site facilities, which typically includes the toilets, storage of materials and parking, must be located away from the trees and outside the RPAs.

4.5.7.2 Care should also be taken to prevent soil contamination with chemical spillages, including petrol, diesel and oils.

#### **4.5.8 Landscaping**

- 4.5.8.1 Proposed fence lines may be constructed within the RPA of a tree if necessary, providing that appropriate considerations are taken with regards to the well-being of the effected tree. As such, no continual trenching is to be undertaken within the RPA (e.g. for small walls onto which panel fencing is installed). Excavations must be kept to a minimum and therefore only fence designs requiring intermittent posts will be acceptable within the RPA. Fences should also be kept as far away from the main stems of the trees as is reasonably possible.
- 4.5.8.2 No ground level changes are to be undertaken within the RPAs of retained trees, unless otherwise stated or agreed with the appointed Arboricultural Consultant or the LPA. The requirement to raise/lower ground levels within RPAs must be communicated to these parties at the earliest practical convenience.

## 5. Summary

- 5.1 We are informed that **T4** and **T5** are subject to a Woodland Tree Preservation Order (**TPO Ref: HU1/49/w2**).
- 5.2 No tree works are required under the current context of the site.
- 5.3 The proposed development will consist of the demolition of the existing building and site features and the construction of a detached, two storey dwelling with a lower ground floor.
- 5.4 **T1** and **G2** require removal in order to facilitate the proposed development. These are discussed in **Section 4.2** and detailed on the Arboricultural Implications Plan at **Appendix 6**.
- 5.5 All development work carried out in close proximity to trees must be executed in a manner sympathetic to their needs. Otherwise, the condition of the trees may deteriorate in the months and years following development, leading to a loss of amenity and resulting in potentially hazardous trees. Care must therefore be taken to ensure that the retained trees are suitably protected.
- 5.6 In accordance with **Section 6.1** of **BS 5837: 2012**, the next stage on this site should be the preparation of an **Arboricultural Method Statement (AMS)**, to ensure that all the retained trees survive the development process. An **AMS** details which trees are to be removed, which trees are to be retained and any other tree works which are required to facilitate development. The **AMS** will also advise on temporary protective barriers, temporary ground protection, site supervision, location of services and it will detail specialist construction techniques.
- 5.7 The data gained during the survey provides an indication of the health of the trees. However, it does not enable a comprehensive assessment of their condition over time. Trees are living organisms which are affected by many factors including weather conditions, diseases/disorders, light levels and human activities. Due to this, this report is only valid for a period of 1 year from the date of issuing. Should an update or revision of this report be required outside of this time period, JCA may require a further site visit to ensure that the condition of the trees has not significantly changed. It is advised that the trees are inspected regularly, in the interests of risk management.

# Appendices

Tree Ref.	Age	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread			Observations	Recommendations	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
	Common Name					W	E	S								
T 1	Semi-mature Korean Fir <i>Abies koreana</i>	6	0	0 n/a	18	2	2	2	Single-stemmed and vertical with a balanced crown. No evidence of significant pruning. No major visible defects.	<i>Remove to facilitate the proposed development.</i>	GOOD	GOOD	LOW	MOD	40+	C 1
G 2	Semi-mature Cypress <i>Cupressus sp.</i>	To 2.5	0+	0+ n/a	To 15	See plan			Three trees of a reasonable form. No major visible defects.	<i>Remove to facilitate the proposed development.</i>	GOOD	GOOD	LOW	HIGH	20+	C 2
T 3	Semi-mature Cypress <i>Cupressus sp.</i>	4	0	0 n/a	20	1.8	1.8	1.8	Single-stemmed and vertical with a balanced crown. No evidence of significant pruning. No major visible defects.	No action required.	GOOD	GOOD	LOW	HIGH	20+	C 1
T 4	Mature Sycamore <i>Acer pseudoplatanus</i>	16	3	5 E	75#	6# 5# 4#	7		Situated on adjacent land within a wider woodland. Twin-stemmed at 2.5m with a balanced crown. Not fully inspected due to limited access.	No action required.	GOOD	GOOD	MOD	MOD	40+	A 1
T 5	Mature Sycamore <i>Acer pseudoplatanus</i>	16	3	5 E	55#	3# 3# 4#	6		Situated on adjacent land within a wider woodland. Single-stemmed and vertical with a balanced crown. Not fully inspected due to limited access.	No action required.	GOOD	GOOD	MOD	MOD	40+	A 1

## Appendix 2: Explanation of Tree Descriptions

### A2.1 Measurements/ Reference Information

- A2.1.1 *REF NUMBER*. All items surveyed are allocated a reference number preceded with a letter, identifying the type of vegetation surveyed: T = an individual tree, G = a group of trees or an area of vegetation, W = woodland, H = a hedgerow.
- A2.1.2 *SPECIES: COMMON AND BOTANICAL NAME*. The common and botanical names of the species present are noted. If the species is not clear or identifiable, then a general common name and genus will be noted.
- A2.1.3 *AGE CLASS* of the tree is described as young, semi-mature, early-mature, mature, over-mature, veteran or dead.
- A2.1.4 *HEIGHT* of the tree is measured in metres from the stem base to the top of the crown.
- A2.1.5 *CROWN HEIGHT* is an indication of the height above ground level at which the crown begins.
- A2.1.6 *STEM DIAMETER* is measured at 1.5 metres above (higher) ground level. Where the tree is multi-stemmed at this point; diameter measurements are taken for each stem. If more than five stems are present, an average stem diameter is taken. If for whatever reason it is not practical to measure multiple-stemmed trees in this way, the diameter is measured close to ground level, just above the root buttress.
- A2.1.7 *CROWN SPREAD* is measured from the centre of the stem base to the tips of the branches to all four cardinal points.
- A2.1.8 *HEIGHT AND DIRECTION OF LOWEST BRANCH*. The height and direction of the lowest significant branch is noted because of potential issues relating to clearances and the need for tree pruning.
- A2.1.9 *NHBC WATER DEMAND*. The water demand of each tree is listed in accordance with current NHBC Standards. This is included to aid structural engineers, architects and other members of the design team as it determines foundation depth and other considerations with regard to trees.

## **A2.2 Evaluations**

- A2.2.1 *PHYSIOLOGICAL CONDITION* is classed as good, fair, poor, or dead. This is an indication of the health and vitality of the tree and takes into account vigour, presence of disease and dieback.
- A2.2.2 *STRUCTURAL CONDITION* is classed as good, fair or poor. This is an indication of the structural integrity of the tree and takes into account significant wounds, decay and quality of branch junctions.
- A2.2.3 *LIFE EXPECTANCY* is classed as; 0, less than 10 years, 10+ years, 20+ years, or 40 + years. This is an indication of the minimum number of years before removal of the tree is likely to be required.
- A2.2.4 *AMENITY VALUE*. A general indication is given in respect to the amenity/landscape value of the tree/group within the surrounding area.
- A2.2.5 *PRIORITIES*. A priority rating is given concerning the time periods in which the recommended works should be undertaken. LOW priority works should be undertaken within 12 months of the survey, MOD (moderate) priority works should be undertaken within 6 months and HIGH priority works should be completed as soon as practically possible. If no works are recommended, N/A (not applicable) will be used.

## **A2.3 Retention Categories**

- A2.3.1 *A (marked green on the Tree Constraints Plan) = Trees of high quality.*
- These trees are of high quality and value with a good life expectancy (usually with an estimated remaining life expectancy of 40 years).
- A2.3.2 *B (marked in blue on the Tree Constraints Plan) = Trees of moderate quality.*
- These trees are of moderate quality and value with a reasonable life expectancy (usually with an estimated life expectancy of at least 20 years).
- A2.3.3 *C (marked in grey on the Tree Constraints Plan) = Trees of low quality.*
- These trees are of low quality and value but which are in adequate condition to remain or are young trees with a stem diameter below 15cm (usually with an estimated life expectancy of at least 10 years).
- A2.3.4 Trees categorised as retention category 'A', 'B' or 'C' are then justified by being further divided into 3 subcategories:
- 1 = Mainly arboricultural qualities.
  - 2 = Mainly landscape qualities.
  - 3 = Mainly cultural values, including conservation value.

## **Appendix 3: General Guidelines**

- A3.1 All tree work must be undertaken to BS 3998: 2010 '*Recommendations for tree work*' or other recognised industry practice.
- A3.2 Staff carrying out the work must be qualified, experienced and ideally be Arboricultural Association approved contractors. They should be covered by adequate public liability insurance.
- A3.3 This report is based upon a visual inspection. The consultant shall not be responsible for events which happen after this time due to factors which were not apparent at the time, and the acceptance of this report constitutes an agreement with the guidelines and the terms listed in this report.
- A3.4 Any defects seen by a contractor or the employer that were not apparent to the consultant must be brought to the consultant's attention immediately.
- A3.5 No liability can be accepted by JCA in respect of the trees unless the recommendations of this report are carried out under the supervision of JCA and within JCA's timescale.
- A3.6 It is advisable to have trees inspected by an arboricultural consultant regularly.

## Appendix 4: Author Qualifications

### Principal Consultant and Managing Director

**Jonathan Cocking** *F.R.E.S., Tech. Cert. (Arbor.A), PDipArb (RFS) FArborA CBiol MSB. MICFor.* Jonathan is a Registered Consultant and Fellow of the Arboricultural Association and sits on its Professional Committee. He has 31 years' experience in the Arboricultural profession and served for eight years as Senior Arboriculturist with a large local authority before establishing JCA in 1997. Jonathan has since developed JCA's portfolio of services and its extensive client base. He is a Chartered Biologist, a Chartered Arboriculturalist and an Expert Witness with much experience of litigation work.

### Technical Director

**Toby Thwaites** *BSc (Hons), HND (Arboriculture), MArborA.* Toby joined JCA in 1998 after graduating in Ecology at the University of Huddersfield and has since graduated in Arboriculture at the University of Central Lancashire. A former JCA team leader and Consulting Arboriculturist, Toby is now Technical Director and oversees all office and on-site activities at JCA and is on hand to offer technical support and advice.

### Operations Director

**Charles Cocking** *FdSc (Arboriculture), MArborA.* Charles joined JCA in January 2014 having previously worked for the company on a part time basis during 2013. Charles obtained his Foundation Degree in Arboriculture at Askham Bryan College, York, and is a Professional Member of the Arboricultural Association. Charles now oversees all internal operations for the company.

### Consulting Staff: Arboriculture

**Andrew Bussey.** Andrew started working in consultancy at JCA in 2006 having spent 12 years working as an arborist for various private companies before joining a Local Authority forestry team. He has various NPTC qualifications, is QTRA qualified and is a LANTRA Accredited Professional Tree Inspector.

**Emily Wilde** *FdSc (Arboriculture).* Emily joined JCA having previously worked for various private tree surgery and consultancy companies over the past 8 years. She initially obtained a ND in Forestry & Arboriculture, followed by a FdSc in Arboriculture at Askham Bryan College, York. Emily has various NPTC certificates and is QTRA qualified.

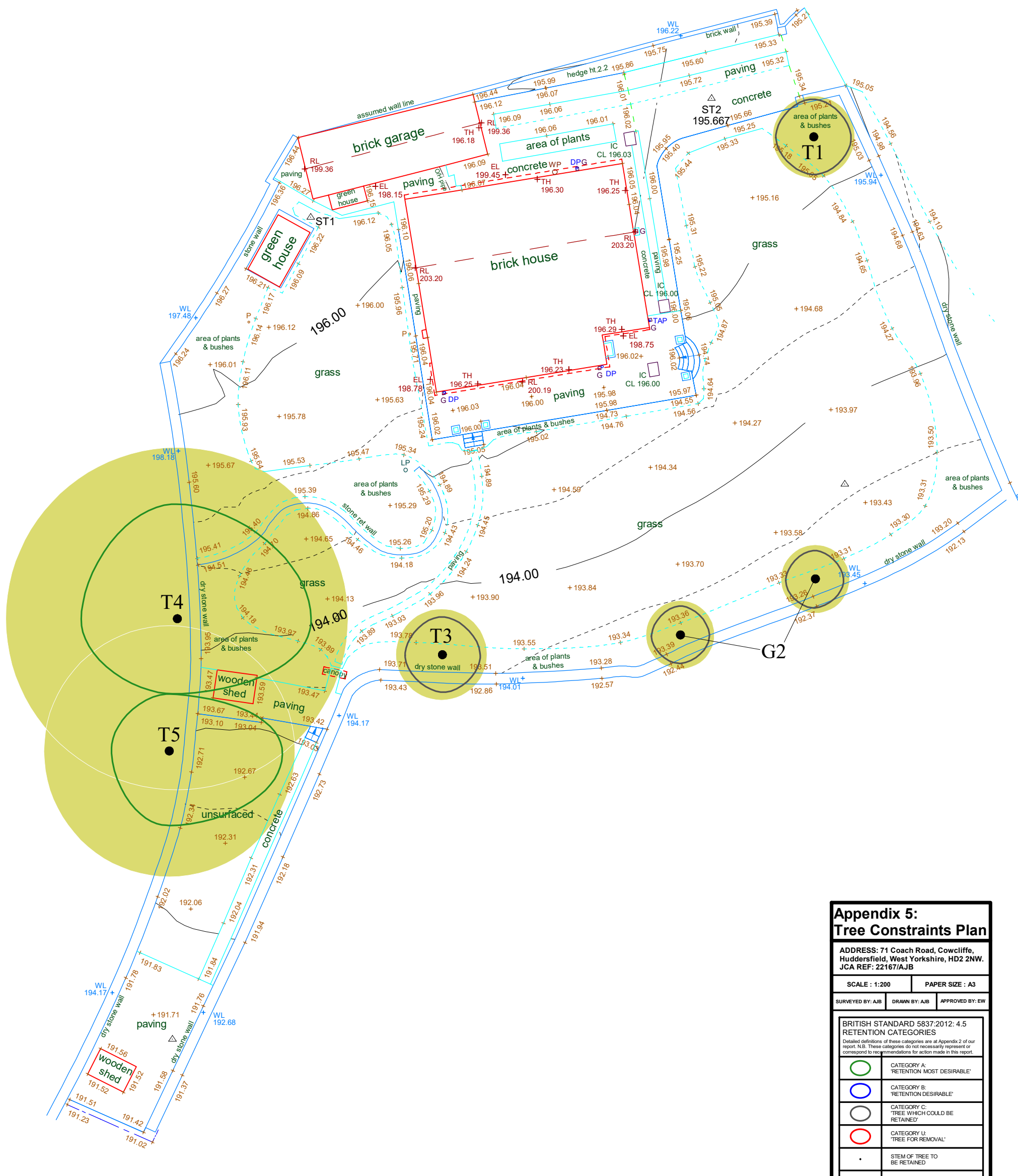
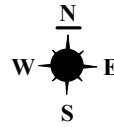
**Mick Eltringham** *ND (Forestry).* Mick joined JCA after spending 12 years working in the industry for various private companies in the north and south of England. He has also spent the last five years working as a consultant for two canopy research projects in the Amazon Rainforest, working with Oxford University and the University of Arizona. He has various NPTC Qualifications.

**Dan Kemp** *FdSc (Arboriculture), BTEC National Diploma(Arboriculture), National Certificate In Horticulture, City & Guilds In Horticulture.* Dan joined JCA in February 2019 with nearly 30 years' experience in arboriculture with extensive Botanical and Mycological expertise. He worked as a London Tree Officer for 12 years and in several arboricultural and horticultural management posts, specialising particularly in tree risk assessments and tree related subsidence.

**Luke Wickham** *FdSc (Arboriculture and Urban Forestry), TechArborA.* Luke joined JCA in 2021 after obtaining his Foundation Degree in Arboriculture and Urban Forestry at Askham Bryan College. Having previously worked within the industry for the past 4 years, running his own small business and sub-contracting for local firms, Luke brings a sound knowledge and understanding of the practical and academic sides of the industry.

**David de Peña** *BSc (Hons) Ecology and Conservation.* After earning his degree from Manchester Metropolitan University, David worked as an ecologist at various consultancies, contributing to a wide range of projects, including major infrastructure projects across the UK. More recently, David transitioned to arboriculture and served as a surveyor for Manchester City of Trees, where he participated in a project to quantify the value of Greater Manchester's woodlands and trees.

**Stella Bolam** *Dip Arb L4 (ABC), TechArborA.* Stella joined JCA having previously worked at a Local Authority as a Community Forestry Project Development Officer for over two years. She holds a degree in English, gained her Level 4 Diploma in Arboriculture in 2023, and was elected as a Board Trustee for the Arboricultural Association in 2022.



**Appendix 5:  
Tree Constraints Plan**

ADDRESS: 71 Coach Road, Cowcliffe,  
Huddersfield, West Yorkshire, HD2 2NW.  
JCA REF: 22167/AJB

SCALE : 1:200      PAPER SIZE : A3

SURVEYED BY: AJB      DRAWN BY: AJB      APPROVED BY: EW

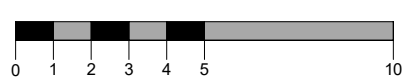
BRITISH STANDARD 5837:2012: 4.5 RETENTION CATEGORIES	
	CATEGORY A: 'RETENTION MOST DESIRABLE'
	CATEGORY B: 'RETENTION DESIRABLE'
	CATEGORY C: 'TREE WHICH COULD BE RETAINED'
	CATEGORY U: 'TREE FOR REMOVAL'
	STEM OF TREE TO BE RETAINED
	STEM OF TREE TO BE REMOVED
	ROOT PROTECTION AREA

**Root Protection Area: RPA**

THE ROOT PROTECTION AREA SHOULD IDEALLY REMAIN UNDISTURBED IF THE TREE IS TO BE RETAINED.

THE DEVELOPMENT PROPOSALS SHOULD THEREFORE BE DESIGNED TO AVOID THE RPA OF ANY TREE WHICH IS TO BE RETAINED.

IF IT IS NECESSARY FOR THE DEVELOPMENT TO ENCROACH INTO THE RPA OF A TREE WHICH IS TO BE RETAINED THEN SPECIALIST CONSTRUCTION TECHNIQUES AND MATERIALS MUST BE CONSIDERED.



THE LOCATIONS OF G2, G3, T4 AND T5 MUST BE TREATED AS INDICATIVE AS THEY WERE NOT SHOWN ON THE TOPOGRAPHICAL PLAN PROVIDED

THIS PLAN IS TO BE PRINTED IN COLOUR AND READ IN CONJUNCTION WITH THE JCA ARBORICULTURAL REPORT (JCA REF: 22167/AJB)





I hope that this report provides all the necessary information, but should any further advice be needed please do not hesitate to contact the author.

Signed



.....  
**Andrew Bussey** *LANTRA Accredited PTI.*

22<sup>nd</sup> August 2024

For and on behalf of **JCA Ltd**

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# JCA Ltd. Arboricultural and Ecological Consultants

## Professional Tree and Ecology Advice nationwide

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### ARBORICULTURAL SERVICES

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#### Guidance for Architects and Developers

- British Standard 5837 Tree Surveys
- Arboricultural Implication Assessments (AIA)
- Arboricultural Method Statements (AMS)

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#### Advice for Engineers, Loss Adjusters and Insurers

- Tree Surveys for Subsidence
- Heave Assessment
- Tree Root Identification

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#### Advice for Local Authorities and Social Housing

- Tree Safety Surveys
- Specialist Decay Detection
- Landscape and Orchard Design

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#### Tree Advice for the Legal Profession

- Subsidence Litigation
- Personal Injury and Accident Investigation
- Expert Witness, Planning Inquiries and Appeals

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#### Veteran Tree Management

- Ancient Woodland Management
- Veteran Tree Management

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#### Tree Health and Pest and Disease Management

- Pest and Disease Surveys
- Tree Health Checks
- Disease Mitigation and Control

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### ECOLOGICAL SERVICES

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#### Ecological Pre-Planning Services

- Phase 1 Habitat Surveys
- Great Crested Newt eDNA Sampling
- Protected Species: Bat, Wintering and Nesting Bird, Badger, Amphibian, Otter, Water Vole, White-Clawed Crayfish, Dormice and Reptile Surveys.
- Preparation for Environmental Impact Assessment (EIA)
- Invasive Species Surveys
- Code for Sustainable Homes

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#### Ecological Post-Planning Services

- Biodiversity Enhancement Plans
- Protected Species Mitigation
- Ecological Management (Bat and Bird box installation and inspection)

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