ARBORICULTURAL METHOD STATEMENT
to BS 5837:2012
at
Former Kirklees College
New North Road
Huddersfield
West Yorkshire
HD1 5NN

Client:
FDA Landscape

Client Address:
Westleigh Hall
Wakefield Road
Denby Dale
Huddersfield
West Yorkshire
HD8 8QZ

JCA Ref:
22125-A/AJB



JCA Limited
Arboricultural & Ecological Consultants

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1. Introduction

1.1 Purpose of the Method Statement

1.1.1 This Arboricultural Method Statement has been prepared to ensure good practice in the protection of retained trees during the development at **Former Kirklees College**, **New North Road**, **Huddersfield**.

1.2 Terms of Reference

1.2.1 JCA Limited is instructed by **FDA Landscape** to prepare an Arboricultural Method Statement for the proposed development, based on our arboricultural report dated 10th July 2024 (JCA Ref: **22125/AJB**). The arboricultural survey and report conforms to the most recent specifications outlined in BS 5837: 2012 *Trees in relation to design, demolition and construction - Recommendations*.

1.2.2 It is proposed to construct a retail sore along with its associated infrastructure.

1.2.3 The following drawings have been provided and these are the basis of the Arboricultural Method Statement and the Tree Protection Plan at **Appendix 4**:

- Topographical Survey (Drawing Ref. **9905-TOPO**).
- Development Layout (Drawing Ref. **7355-SMR-00-ZZ-DR-A-2003-S4-C1**).

1.3 Status of the Method Statement

1.3.1 This Arboricultural Method Statement should be included as part of the specification and schedule of works issued to the building contractor and can form part of the contract.

1.3.2 This Arboricultural Method Statement should be available on site for inspection by the local authority, contractors and other relevant persons.

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2. Tree Works

2.1 Tree Works Prior to or Post Construction

2.1.1 No tree works are required before, during or after the construction phase.

2.1.2 Damage to trees during the construction phase should be entirely prevented by the installation of the temporary protective fencing to create a Construction Exclusion Zone (CEZ). All persons on site must be aware of limitations that apply within the CEZ (please refer to **Section 3.1.3**).

2.1.3 If any trees on site are damaged, this must be immediately reported to JCA to agree on appropriate remedial action. Contact numbers for all parties can be found at **Section 7**.

3. The Protective Fencing Prior, During and Post Construction

3.1 Protective Fencing Prior to Construction

3.1.1 The installation of the temporary protective barrier will be the very first job to be undertaken on site prior to the onset of the construction phase.

3.1.2 The protective fencing must be constructed in accordance with BS 5837: 2012 *Trees in relation to design, demolition and construction - Recommendations* and will be located as shown on the Tree Protection Plan at **Appendix 5**. Where possible, the protective barrier will enclose the entire Root Protection Area (RPA) of the trees to make a Construction Exclusion Zone (CEZ); **this area is to be considered a restricted area; no pedestrians, vehicles, equipment or machinery are allowed within the CEZ and the storage of materials is not permitted, unless specified within this Method Statement**.

3.1.3 The protective fencing will be installed in accordance with BS 5837: 2012 and will comprise of a vertical and horizontal scaffold framework, well braced to resist impacts. The vertical tubes should be spaced at a maximum interval of 3m and driven securely into the ground, taking care to avoid underground services and structural roots. Finally, weld mesh panels are to be securely fixed on the scaffold framework. Please refer to **Appendix 2** for protective fencing details.

3.1.4 Once the fencing is installed, waterproof signs with the sentence '*Protected tree zone, no storage or operations within this are*a' are to be placed at 3m intervals to ensure that all personnel are aware of the restrictions that apply to the cordoned off area. A prepared sign is available at **Appendix 2**.

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3.2 Ground Protection

3.2.1 Ground protection is not required for retained trees on this occasion.

3.3 Checking the Protective Fencing Prior to Construction

3.3.1 Once installed, the appointed arboriculturalist will be invited on site to inspect the protective fencing, ensuring that it is located in the correct position and that it has been constructed in accordance with this Method Statement. No other work, including soil stripping, excavation, or the bringing onto site of materials or machinery, shall commence until the barrier is installed and confirmed to be acceptable by the appointed arboriculturalist.

3.3.2 It is important that the protective fencing be checked by the arboricultural consultant prior to any construction works being carried out on site. **If at any time during construction the protective fencing is not correctly installed, or if it does not comply with BS 5837: 2012, this could result in damage being caused to trees and consequently, a stop notice may be served by the LPA.**

3.4 Protective Fencing During Construction

3.4.1 No operations shall take place which require the removal of part of the protective fencing without prior agreement with the Local Planning Authority.

3.4.2 The protective fencing must be inspected for faults or damage by the site manager or other responsible named person on a regular basis and a written record kept. Any faults or defects must be repaired or replaced as soon as is reasonably practicable. Details of the site manager and relevant contact details can be found at **Section 7**.

3.5 Removal of the Protective Fencing

3.5.1 When the development phase is complete and the main site machinery has been removed, the protective fencing may be dismantled and removed from site.

3.5.2 It should be noted the same restrictions apply to all RPAs as the CEZ (please refer to **Section 3.1.2**).

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4. Demolition Phase / Construction Phase

4.1 Demolition Works

4.1.1 In this case, no further demolition works are required adjacent to retained trees. Providing that the protective barrier is installed correctly and prior to the commencement of demolition/construction, no further actions are required to prevent foreseeable damage to these trees. See **Section 3** for further details regarding the protective barrier.

4.2 Ground Level Changes

4.2.1 No ground level changes are permitted within the RPA of any tree to be retained on this site. As such no mitigation actions are considered necessary.

4.3 Construction of Hard Surfaces

4.3.1 In this case, no new hard surfaces are proposed within the RPA of retained trees. As such, no specialist mitigation actions are required.

4.4 Construction of New Building

4.4.1 In this case, the proposed building is located at a sufficient distance from retained trees that no specialist foundation methods are required for arboricultural purposes.

4.5 Excavations and Services

4.5.1 Precise details on service routes are not available at this time. As such, no provision for the routing of utilities within the RPAs is made within the scope of this report.

4.5.2 All utilities should ideally be located outside the RPA of retained trees; this should be achievable as the trees to be retained are located around the site periphery.

4.5.3 If, for whatever reason, incursions into the RPAs are considered unavoidable, the consulting arboriculturalist and/or the LPA must be consulted immediately, to prevent a breach of planning conditions and/or damage to retained trees.

4.5.4 Guidance and methodologies on the installation of underground services whilst minimising damage to tree roots is provided at **Appendix 3**.

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4.6 Location of the Site Compound

4.6.1 The site compound, typically including the site office, mess facilities, toilets, storage of materials and parking, must be located away from, and outside the RPA of retained trees.

4.6.2 Those areas designated for the storage and/or mixing of chemicals, including petrol, diesel and oils must also be located away from, and outside the RPA of retained trees. Such areas should be constructed with consideration to, and contingencies for, the occurrence of spillages, preventing the leaching of chemicals into unprotected, open ground.

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5. Post Construction Phase

5.1 Post Construction Landscaping

5.1.1 Following completion of the main construction phase, the protective fencing may be removed and the landscaping phase can commence.

5.1.2 The proposals may include for the installation of boundary fences. Where these are located within the RPA of retained trees, post holes will be dug by hand and they are to be as small as practically possible. They may be driven in either by hand or using mechanical means. However, if construction plant is to be used, it must work from outside of the RPA at all times.

5.1.3 The retained trees on site may be subject to some form of landscaping or seeding beneath their canopies after the development phase. At this stage the protective barrier will have been removed and the property may be occupied.

5.1.4 Landscaping works must be carried out in such a way as to avoid ground level changes or deep digging within RPAs. Tractor mounted rotovation or other mechanised cultivation methods must not be used within the RPAs of retained trees.

5.1.5 Heavy machinery is not permitted in the vicinity of retained trees, unless otherwise stated in this method statement.

5.1.6 Herbicides should be appropriate for the purpose and should not be used in such a way as to damage any retained trees or vegetation.

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6. Timescale of Works

6.1.1 The timescales for arboricultural requirements are summarised below:

Timescale	Action	✓	Initial
Stage 1	All requirements listed in the planning consent are approved by the Local Authority planning office.		
Stage 2	Install the temporary protective fencing around the trees (as detailed at **Appendix 2** and as shown on the Tree Protection Plan at **Appendix 4**).		
Stage 3	Have the Arboricultural Consultant inspect the fencing measures **prior** to any on site construction. Once inspected, the protective fencing must not to be moved or breached.		
Stage 4	Undertake the construction phase.		
Stage 5	Following the completion of the construction phase and when all site traffic and machinery has left, the protective fencing can be removed.		
Stage 6	Undertake the landscaping schema in line with **Section 5**.		

7. Relevant Contact Details

Contact Name	Organisation/Detail	Contact Number
Andrew Bussey Arboricultural Consultant	JCA Limited	01422 376335
Tree Officer	Kirklees Metropolitan Borough Council	01484 414909
TBC Site Manager	TBC	TBC

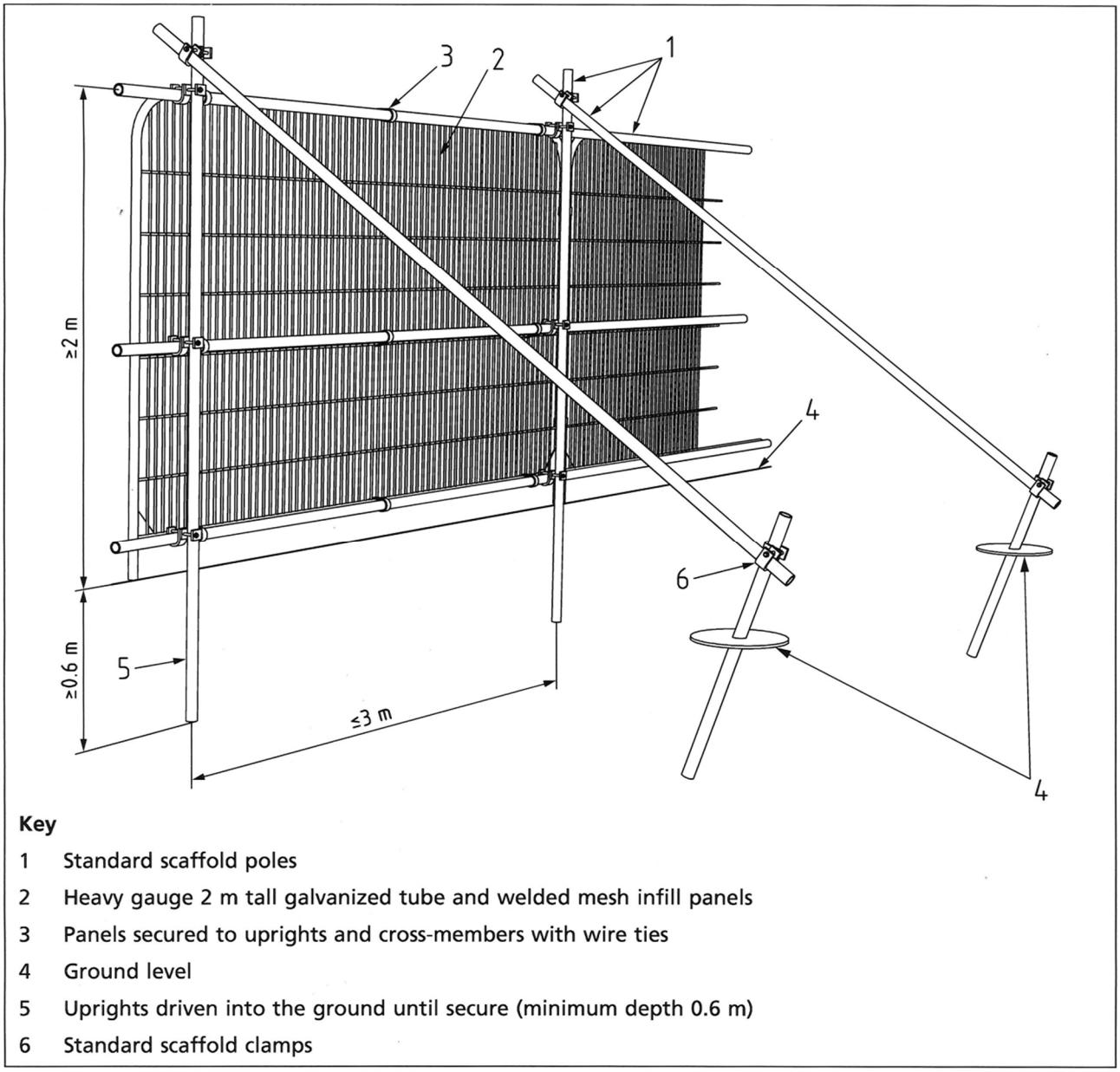
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Appendices

Tree Ref.	Age Common Name *Botanical Name*	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
T 1	Early-mature Norway Maple 'Crimson King' *Acer platanoides 'Crimson King'*	17	2	5 n/a	50#	6.2 6.6 4.3 4	Twin-stemmed at 6m with a balanced crown. Occasional pruning wounds. Not fully inspected due to limited access caused by protective fencing.	No action required.	GOOD	GOOD	HIGH	MOD	40+	1 A 2
T 2	Early-mature Whitebeam *Sorbus aria*	16	1.5	4 N	39#	4.8 6.2 1 4	Single-stemmed and vertical with an unbalanced crown. Occasional pruning wounds. Not fully inspected due to limited access caused by protective fencing.	No action required.	GOOD	GOOD	HIGH	MOD	20+	B 2
T 3	Early-mature Norway Maple 'Crimson King' *Acer platanoides 'Crimson King'*	15	4	5 n/a	36#	3.9 1.7 4 3	Overhanging the footpath. Single-stemmed and vertical with an unbalanced crown. Occasional pruning wounds. Not fully inspected due to limited access caused by protective fencing.	No action required.	GOOD	GOOD	HIGH	MOD	20+	B 2
T 4	Early-mature Norway Maple 'Crimson King' *Acer platanoides 'Crimson King'*	16	4	4.5 n/a	40#	3.4 4.2 6 4.6	Overhanging the footpath. Twin-stemmed at 3.5m with a balanced crown. Not fully inspected due to limited access caused by protective fencing.	No action required.	GOOD	GOOD	HIGH	MOD	40+	1 A 2
T 5	Early-mature Common Lime *Tilia x europaea*	13	3	4 n/a	55#	5.2# 5.2# 5.2# 5.2#	Multi-stemmed at 4m with a balanced crown. Located within a planting bed which will restrict the root protection area of this tree. No major visible defects.	No action required.	GOOD	GOOD	HIGH	MOD	40+	B 2

Appendix 2: Protective Barrier

A2.1 The protective barrier will be installed in accordance with BS5837: 2012. The default specification of BS 5837: 2012 (pictured below for reference) recommends a vertical and horizontal, scaffold framework, well braced to resist impacts, with vertical tubes at no more than 3m intervals. These should be driven into the ground. Weld mesh panels should be affixed to this framework with scaffold clamps.



Key

1 Standard scaffold poles
2 Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6 m)
6 Standard scaffold clamps

Protective Barrier to BS 5837: 2012.

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TREE PROTECTION ZONE

KEEP OUT!

TREES ENCLOSED BY THIS FENCE ARE PROTECTED
BY STRICT PLANNING CONDITIONS

ANY DAMAGE CAUSED TO THESE TREES MAY
RESULT IN **CRIMINAL PROSECUTION**

RESTRICTED AREA:

- THE PROTECTIVE FENCE MUST NOT BE MOVED OR BREACHED
- NO PERSON, MACHINERY, VEHICLE OR PLANT IS PERMITTED WITHIN THE TREE PROTECTION ZONE
- NO MATERIALS SHALL BE STORED WITHIN THE TREE PROTECTION ZONE
- NO EXCAVATIONS ARE PERMITTED WITHIN THE TREE PROTECTION ZONE
- NO SPOIL IS TO BE DEPOSITED WITHIN THE TREE PROTECTION ZONE
- NO FIRES ARE TO BE LIT WITHIN THE TREE PROTECTION ZONE

REPORT TREE DAMAGE TO JCA LIMITED ON
01422 376 335

Appendix 3: Utilities and Drainage

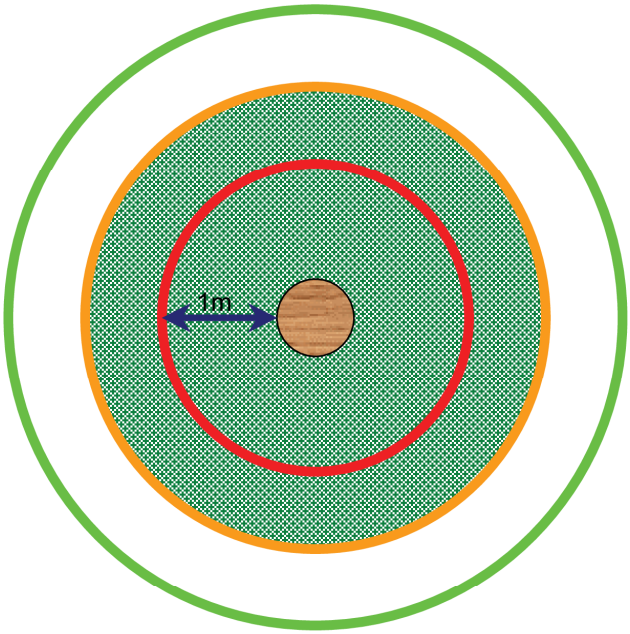
A3.1 Over-ground services should be routed away from areas where they are likely to interfere with the crowns of trees. Similarly any landscaping should take account of over-ground services and mature tree size.

A3.2 Underground services must be routed outside the RPA of retained trees, unless otherwise specified within this report. NJUG Volume 4 Issue 2 (on the next page) is a set of accepted guidelines for installing services in the proximity of trees. Please note that this is not a substitute for site-specific advice by an arboriculturalist and consultation should be made wherever incursions of RPAs are envisaged. The contents of this report, specifically **Section 4.5**, supersede the set of guidelines on the next page, which are only included for reference.

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The National Joint Utilities Group

NJUG Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees – Issue 2



TREE PROTECTION ZONE

Key to Diagram

Trunk of Tree

Spread of canopy or branches

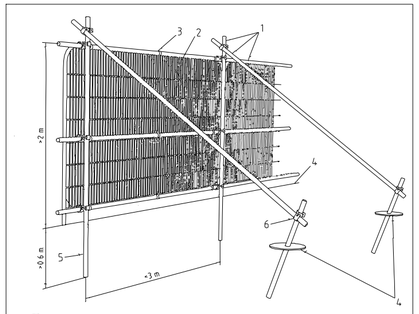
PROHIBITED ZONE – 1m from trunk. Excavations of any kind must not be undertaken within this zone unless full consultation with Local Authority Tree Officer is undertaken. Materials, plant and spoil must not be stored within this zone.

PRECAUTIONARY ZONE – 4 x tree circumference. Where excavations must be undertaken within this zone the use of mechanical excavation plant should be prohibited. Precautions should be undertaken to protect any exposed roots. Materials, plant and spoil should not be stored within this zone. Consult with Local Authority Tree Officer if in any doubt.

PERMITTED ZONE – outside of precautionary zone. Excavation works may be undertaken within this zone however caution must be applied and the use of mechanical plant limited. Any exposed roots should be protected.

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Default specification for a protective barrier



Key

1. Standard scaffold poles
2. Heavy gauge 2m tall galvanized tube and welded mesh infill panels
3. Panels secured to uprights and cross-members with wire ties
4. Ground level
5. Uprights driven into the ground until secure (minimum depth 0.6m)
6. Standard scaffold clamps



TREE PROTECTION MEASURES

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

UNLESS OTHERWISE STATED IN THE ARBORICULTURAL METHOD STATEMENT, THE RPA NEEDS TO REMAIN UNDISTURBED.

TO ACHIEVE THIS, PROTECTIVE FENCING WILL BE INSTALLED TO ENCLOSE THE RPA TO MAKE A CONSTRUCTION EXCLUSION ZONE (CEZ);

THIS AREA IS TO BE CONSIDERED A RESTRICTED AREA; NO PEDESTRIANS, VEHICLES, THE STORAGE OF MATERIALS, EQUIPMENT OR MACHINERY ARE ALLOWED WITHIN THE CEZ, UNLESS SPECIFIED WITHIN THE ARBORICULTURAL METHOD STATEMENT.

IT IS IMPORTANT THAT THE PROTECTIVE FENCING IS CHECKED BY THE LPA OR THE ARBORICULTURAL CONSULTANT PRIOR TO ANY CONSTRUCTION WORKS BEING CARRIED OUT. IF THE TREE PROTECTION MEASURES ARE NOT CORRECTLY INSTALLED OR IF THEY DO NOT COMPLY WITH BS 5837: 2012, THIS COULD RESULT IN DAMAGE BEING CAUSED TO TREES AND CONSEQUENTLY A STOP NOTICE MAY BE SERVED BY THE LPA.

THIS PLAN IS TO BE PRINTED IN COLOUR AND READ IN CONJUNCTION WITH THE JCA ARBORICULTURAL REPORT (JCA REF: 22125-A/AJB)

Appendix 4: Tree Protection Plan

ADDRESS: Former Kirklees College, New North Road, Huddersfield, West Yorkshire, HD1 5NN.
JCA REF: 22125-A/AJB.

SCALE: 1:500	PAPER SIZE : A2

SURVEYED BY: AJB	DRAWN BY: AJB	APPROVED BY: LW

	TREE TO BE RETAINED
	STEM OF TREE TO BE RETAINED
	ROOT PROTECTION AREA (RPA)
	PROTECTIVE FENCE LINE (CEZ)
	ROOT PROTECTION AREA (PRIOR TO OFF-SETTING)

JCA Limited
Arboricultural & Ecological Consultants

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.*

10th July 2024

For and on behalf of ***JCA Ltd***

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JCA Ltd. Arboricultural and Ecological Consultants
Professional Tree and Ecology Advice nationwide

ARBORICULTURAL SERVICES

Guidance for Architects and Developers

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

Advice for Engineers, Loss Adjusters and Insurers

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

Advice for Local Authorities and Social Housing

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

Tree Advice for the Legal Profession

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

Veteran Tree Management

- Ancient Woodland Management
- Veteran Tree Management

Tree Health and Pest and Disease Management

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

ECOLOGICAL SERVICES

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

Ecological Post-Planning Services

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



HEAD QUARTERS:

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