

**ARBORICULTURAL METHOD STATEMENT
to BS 5837:2012
at
8 Norford Way
Rochdale
Lancashire
OL11 5QS**

Client:
Mr Sediq

Client Address:
8 Norford Way
Rochdale
Lancashire
OL11 5QS

JCA Ref:
20292/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 **8 Norford Way, Rochdale**.

1.2 Terms of Reference

- 1.2.1 JCA Limited is instructed by **Mr Sediq** to prepare an Arboricultural Method Statement for the proposed development, based on our arboricultural survey dated 17th February 2023. The arboricultural survey and this report conform 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 an extension to the rear of the existing dwelling, to increase the size of the porch to the front and to undertake a loft conversion.
- 1.2.3 A development layout has been provided and this is the basis of the Arboricultural Method Statement and the Tree Protection Plan at **Appendix 3**.

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.

2. Tree Works Prior, During and Post Construction

2.1 Tree Works During Construction

- 2.2.1 In this case, no above ground tree works are envisaged to be required during the construction phase.
- 2.2.2 Damage to trees during the construction phase should be entirely prevented by the installation of the temporary protective barrier (fencing and ground protection), 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**).
- 2.2.3 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**.
- 2.2.4 Root pruning is required to enable the construction of an extension within the RPA of two trees within **G6**, as indicated in blue shade on the plan at **Appendix 3**. This operation will be undertaken during the construction phase and will be supervised throughout by the appointed arboriculturalist.
- 2.2.5 For this method, the closest point of the proposed extension in relation to the trees will be marked on-site by an appointed engineer or another qualified person, using an appropriate method (e.g. temporary, biodegradable spray paint or pegs and lines). A trench will then be excavated along this line to the required depth. Any roots exposed during this operation will be cleanly severed using appropriate hand tools (e.g. sanitised hand saws or bypass secateurs).

3. The Protective Barrier Prior, During and Post Construction

3.1 Protective Barrier Prior to Construction

- 3.1.1 The installation of the temporary protective barrier will be the very first job to be undertaken on site following the completion of the tree works (**Section 2.1**). This barrier will comprise of protective fencing and ground protection, as detailed below and in **Section 3.2**.
- 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 3**. 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 weld mesh panel fencing, situated in rubber or concrete feet. Panels will be joined together using a minimum of two anti-tamper couplers, positioned so that they can only be removed from inside the barrier. The fencing will be supported at each joint (where two panels meet) with a stabiliser strut, attached to the fencing at one end and a block tray at the other. 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 area*’ 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**.

3.2 Ground Protection

- 3.2.1 Where it is not possible to enclose the entire RPA of a tree with protective fencing, it will be necessary to lay appropriate ground protection which, in combination with the fencing described in **Section 3.1**, will comprise the protective barrier.
- 3.2.2 The ground protection will be installed in the location shown in brown shade on the plan at **Appendix 3** prior to construction and retained until the material completion of development. The purpose of the ground protection is to enable site traffic to pass over the RPAs of trees, whilst minimizing compaction and disturbance of the underlying soil which can lead to root asphyxiation and damage.

- 3.2.3 As only pedestrian traffic is required to pass over the RPA, a porous, thin geotextile membrane will be laid over the exposed area. A layer of sharp sand or woodchip, no less than 100mm in depth will be evenly spread over the geotextile and **must not** be compacted by mechanical means. Scaffold boards will then placed on top of this. This construction detail will provide adequate ground protection for **pedestrian use only**. Vehicular/mechanical movement is not permitted over this type of ground protection.

3.3 Checking the Protective Barrier Prior to Construction

- 3.3.1 Once installed, the appointed arboriculturalist will be invited on site to inspect the protective fencing and ground protection, 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 and ground protection 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 or ground protection 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 Barrier During Construction

- 3.4.1 No operations shall take place which require the removal of part of the protective barrier without prior agreement with the Local Planning Authority.
- 3.4.2 The protective barrier 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 Barrier

- 3.5.1 When the development phase is complete and the main site machinery has been removed, the protective barrier 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**).

4. Demolition Phase / Construction Phase

4.1 Demolition Works

- 4.1.1 In this case, no significant 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 To the knowledge of JCA, no ground level changes are required 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 No new hard surfaces are proposed within the RPA of retained trees. As such, no specialist mitigation actions are required.

4.4 Construction of Rear Extension

- 4.4.1 In this case, no specialist foundation methods are required for arboricultural purposes. However, the RPAs of two trees within **G6** are situated within the footprint of proposed buildings, and as such root pruning will be required in accordance with **Section 2.2**, to minimise potential damage to tree roots.

4.5 Excavations and Services

- 4.5.1 In this case the routing of the 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.

4.6 Location of the Site Facilities

- 4.6.1 The site facilities, typically including the 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.

5. Timescale of Works

5.1.1 The timescale 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 3).		
Stage 3	Install ground protection within the RPAs of those trees which are not fully protected by the fencing (as detailed in Section 3).		
Stage 4	Have the Arboricultural Consultant inspect the fencing and ground protection measures prior to any on site construction. Once inspected, the protective fencing and ground protection must not to be moved or breached.		
Stage 5	Undertake the construction phase. Root pruning to be undertaken under arboricultural supervision in line with Section 2.2.		
Stage 6	Following the completion of the construction phase, the protective fencing and ground protection can be removed.		

6. Relevant Contact Details

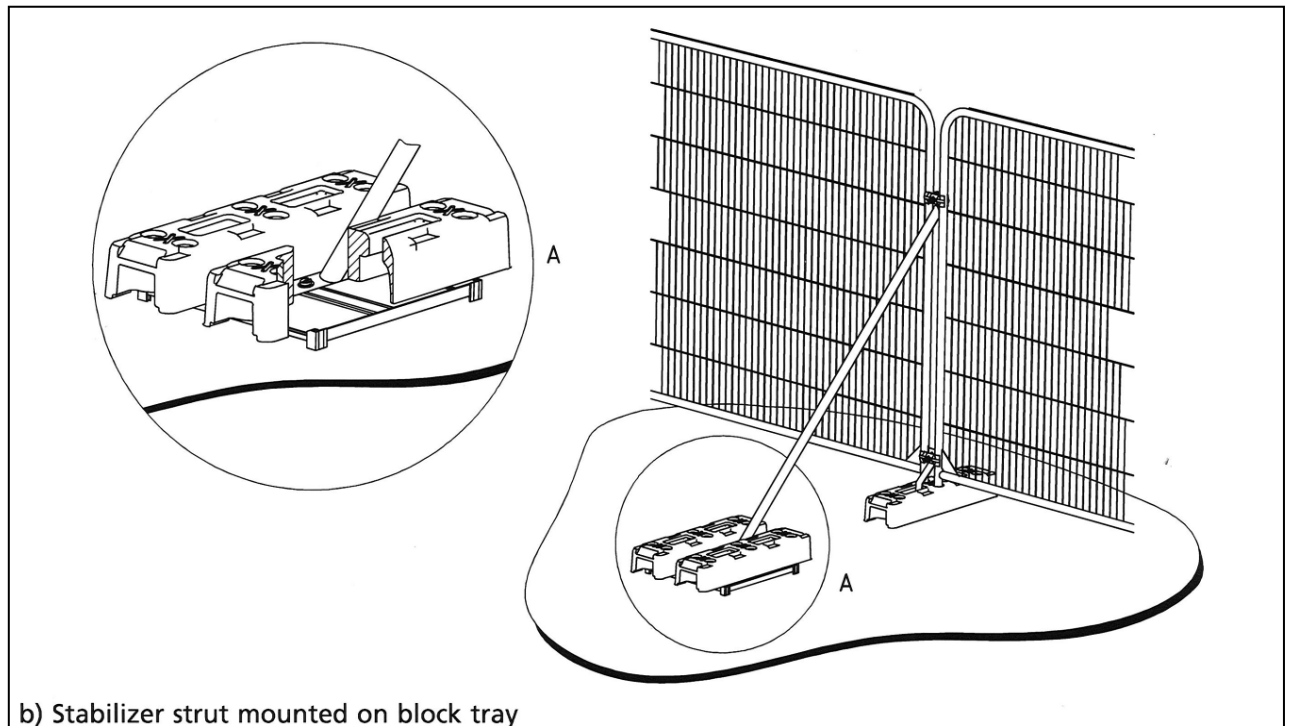
Contact Name	Organisation/Detail	Contact Number
Andrew Bussey Arboricultural Consultant	JCA Limited	01422 376335
Tree Officer	Rochdale Metropolitan Borough Council	01706 647474
TBC Site Manager	TBC	TBC

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 Priority	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
T 1	Semi-mature Cherry <i>Prunus sp</i>	6	2	2 n/a	14, 10	1 2 2 1.5	Twin-stemmed at 0.5m with a balanced crown. Previously topped.	No action required. n/a	GOOD	FAIR	LOW	MOD	10+	C 1
G 2	Semi to early-mature Mixed species <i>Details in observations</i>	To 9	0+	0+ n/a	To 20	See plan	Maintained trees of a reasonable form comprised of Cypress and Cedar.	No action required. n/a	GOOD	GOOD	LOW	MOD TO HIGH	20+	C 2
T 3	Early-mature Pine <i>Pinus sp.</i>	6	2	1.5 S	29	3# 3.5 3 2	A tree of a poor form due to past pruning.	No action required. n/a	GOOD	FAIR	LOW	MOD	20+	C 2
G 4	Semi to early-mature Mixed species <i>Details in observations</i>	To 9	0+	0+ n/a	To 28	See plan	A dense group of Holly, Cypress, Cherry Laurel and Rowan of a reasonable form.	No action required. n/a	GOOD	GOOD	LOW	LOW TO HIGH	20+	C 2
T 5	Early-mature Weeping Willow <i>Salix babylonica</i>	15	1.5	8 n/a	48	6# 8# 4.5 6	Twin-stemmed at 8m with an unbalanced crown and a poor form. Minor deadwood noted as well as a decay cavity at 4m on the main stem.	Monitor biennially. Low	GOOD	FAIR	LOW	HIGH	10+	C 1
G 6	Early-mature to mature Mixed species <i>Details in observations</i>	To 20	1+	3+ n/a	To 60	See plan	A group of Sycamore, Lime and Beech of a vertical form, some of which have been heavily crown lifted, leaving many top heavy. Three trees presumed to be in the neighbouring garden have been topped.	Root prune the area shown in blue shade on the plan at Appendix 3 under arboricultural supervision. Monitor biennially. Low	GOOD	FAIR	MOD	MOD	20+	B 2
T 7	Mature Sycamore <i>Acer pseudoplatanus</i>	18	5	5 n/a	55	4 3 6 5#	Single-stemmed and vertical with an unbalanced crown which has been heavily crown lifted. A significant cavity with decay is present at the base.	Remove for arboricultural reasons. Moderate	FAIR	POOR	LOW	MOD	<10	U
G 8	Early-mature Downy Birch <i>Betula pubescens</i>	To 13	0+	0+ n/a	To 45#	See plan	Situated on adjacent land. Four previously topped trees of a reasonable form.	No action required. n/a	GOOD	FAIR	LOW	LOW	10+	C 2
G 9	Semi to early-mature Mixed species <i>Details in observations</i>	To 10	0+	0+ n/a	To 30	See plan	Cherry and Downy Birch which have been previously topped.	No action required. n/a	GOOD	FAIR	LOW	LOW TO MOD	10+	C 2

Appendix 2: Protective Barrier

A2.1 An example of the above-ground stabilisation system recommended for use within this report.



TREE PROTECTION ZONE

KEEP OUT!

TREES ENCLOSED BY THIS FENCE ARE PROTECTED
BY STRICT PLANNING CONDITIONS

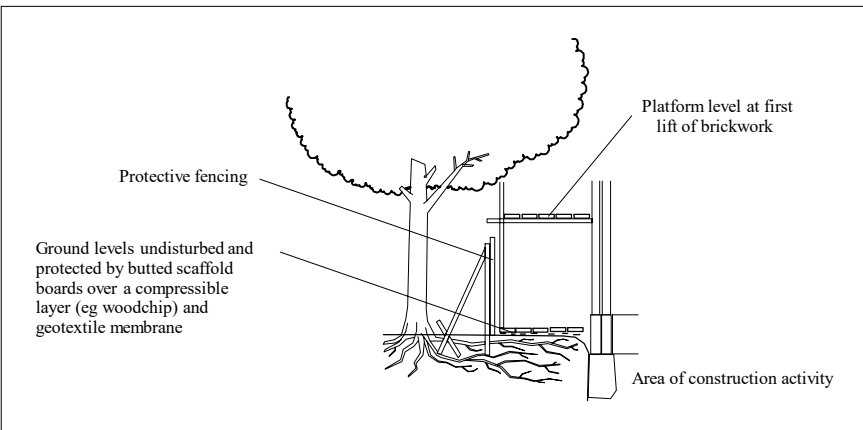
ANY DAMAGE CAUSED TO THESE TREES MAY
RESULT IN CRIMINAL PROSECUTION

RESTRICTED AREA:

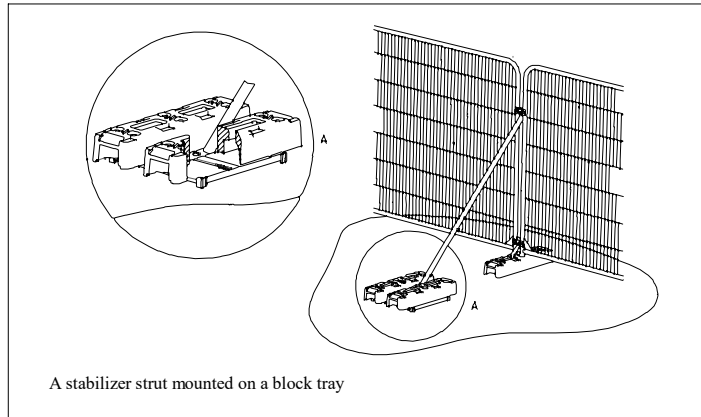
- THE PROTECTIVE FENCE MUST NOT BE MOVED OR BREACHED
- NO PERSON, MACHINERY, VEHICLE OR PLANT IS PERMITTED WITHIN THE TREE PROTECTION ZONE
- NO MATERIALS SHALL BE STORED WITHIN THE TREE PROTECTION ZONE
- NO EXCAVATIONS ARE PERMITTED WITHIN THE TREE PROTECTION ZONE
- NO SPOIL IS TO BE DEPOSITED WITHIN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

An example of scaffolding within the RPA



An example of an above-ground stabilizing system



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.

WHERE IT IS NOT POSSIBLE TO ENCLOSE THE RPA WITH THE PROTECTIVE FENCING, GROUND PROTECTION MEASURES WILL NEED TO BE LAID TO MINIMIZE ANY GROUND COMPACTION AND ANY DISTURBANCE TO THE UNDERLYING SOIL.

THE PROTECTIVE BARRIER WILL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES TAKING PLACE AND WILL BE RETAINED IN PLACE UNTIL THE MATERIAL COMPLETION OF DEVELOPEMNT.

IT IS IMPORTANT THAT THE PROTECTIVE BARRIER 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.

TREE PROTECTION MEASURES ARE NOT DEEMED PRACTICABLE FOR T1, G2, T3, G8 AND G7 DUE TO SITE CONSTRAINTS

THIS PLAN IS TO BE PRINTED IN COLOUR AND READ IN CONJUNCTION WITH THE JCA ARBORICULTURAL REPORT (JCA REF: 20292/AJB)

Appendix 3:
Tree Protection Plan

ADDRESS: 8 Norford Way, Rochdale,
Lancashire, OL11 5QS.
JCA REF: 20292/AJB

SCALE: 1:200 PAPER SIZE : A2

SURVEYED BY: AJB DRAWN BY: AJB APPROVED BY: CC

	TREE TO BE RETAINED
	TREE TO BE REMOVED FOR ARBORICULTURAL REASONS
	STEM OF TREE TO BE RETAINED
	STEM OF TREE TO BE REMOVED
	ROOT PROTECTION AREA (RPA)
	AREA OF RPA ENCROACHED BY THE PROPOSED EXTENTION WHERE ROOT PRUNING MUST BE UNDERTAKEN UNDER ARBORICULTURAL SUPERVISION
	PROTECTIVE FENCE LINE (CEZ)
	PROPOSED NEW DEVELOPMENT
	LOCATION WHERE GROUND PROTECTION MEASURES MUST BE INSTALLED

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.*

23rd February 2023

For and on behalf of **JCA Ltd**

Registered Office:

**Unit 80
Bowers Mill
Branch Road
Barkisland
Halifax
HX4 0AD**

**Tel. 01422 376335
Fax. 01422 376232
Email: jon@jcaac.com**

www.jcaac.com

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Professional Tree and Ecology Advice nationwide

ARBORICULTURAL SERVICES

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- Arboricultural Method Statements (AMS)

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- Tree Root Identification

Veteran Tree Management

- Ancient Woodland Management
- Veteran Tree Management

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

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:

Unit 80 Bowers Mill,
Branch Road,
Barkisland,
Halifax, HX4 0AD.

Tel: 01422 376335
Mobile: 07778 391986
Email: jon@jcaac.com
Website: www.jcaac.com

Company Reg No. 05005041
VAT No. 686 4674 78

