

Arboricultural Impact Assessment Arboricultural Method Statement Tree Protection Plan

BARRINGTON CLOSE, FAIRFORD CLOSE



On behalf of

Bromford / EG Carter

Sue Rankine BSc (hons), Dip Arb L4, *TechArborA Arboricultural Consultant*

December 2023

Version No	Checked by	Date
1.0	AR	03/12/2023



Proposed Development: The demolition of existing housing and replacing with 85 new housing units

Number of trees to be retained: 21

Number of trees to be removed: 55

Number of replacement trees required: 113

Tree protection: Tree protection barriers, temporary ground protection

1.0 Introduction

1.1 Brief

This report is prepared by Hillside Trees Ltd on behalf of Bromford and EG Carter

1.2 Purpose of the Report

- **1.2.0** This report is intended to accompany a planning application relating to proposed development at Barrington Close and Fairford Close. This document has been produced to demonstrate that the implications of the proposed development in relation to the arboricultural and landscape value of the trees on the site have been fully considered during the detailed design process.
- **1.2.1** This report and the accompanying information is supplied in order to:
 - Identify trees to be removed and those to be retained and requiring protection during the site preparation and construction phase of the project.
 - Present information regarding the location of protective barriers (Construction Exclusion Zones) and temporary ground protection on a Tree Protection Plan.
 - Provide a Detailed Arboricultural Method Statement for the recommended works related to trees to be retained during and after the development.

1.3 Documents Provided to Hillside Trees Ltd.

- Topographical Survey. Anthony Brookes Surveys Ltd Drawing No: 710/12110/1A and 710/12110/1B
- Proposed Site Plan. Nash Partnership Drawing No: 21027-NP-XX-XX-DR-A-1002-3 Proposed Site Plan

1.4 Tree Survey Methodology

- **1.4.1** A tree survey was undertaken on 14th January 2022 by an Arboricultural Consultant of Hillside Trees Ltd.
- **1.4.2** The survey took place from ground level aided by the Visual Tree Assessment method (Mattheck and Breloer, 1994).

3

Hillside Trees Ltd 2 Hillside, Bowden Hill, Chilcompton, Radstock, BA3 4EN Tel: 01761 233244 E: enquiries@hillsidetrees.co.uk **1.4.3** This survey is not a tree risk assessment but takes into account any observed structural defects of the trees in order to inform conclusions with regard to their retentive worth.

1.5 Data Collection

1.5.1 Data collected includes designated tree number, tree species, height, number of stems, stem diameter, crown clearance (height of periphery of crown spread above ground level), branch spread (to N, S, E and W), age class, physiological condition, useful life expectancy, tree structural condition, site notes (where this has a bearing on the present or future health or structural condition of the tree), and tree category.

1.6 Presentation of the Data Collected

- **1.6.1** Data collected regarding individual trees and groups of trees are presented in the Tree Schedule table in Appendix A in accordance with BS5837:2012 'Trees in relation to design, demolition and construction Recommendations'. The tree schedule also gives scientific names for all trees mentioned in the report.
- **1.6.2** The data significant to the proposed site layout is also presented on the Tree Protection Plan Drawing Number 231130-BCFC-TPP-SD contained within the Detailed Arboricultural Method Statement (Appendix B).
- **1.6.3** All other relevant data are presented within the main body of this report.
- **1.6.4** Trees have been allocated an individual tree number. This tree number is used to identify individual trees and groups of trees throughout this report, within the Tree Schedule and on the Tree Protection Plan presented in the appendices of this report.

2.0 Arboricultural Constraints

An assessment of the trees surveyed presented in the Tree Schedule table in Appendix A, is also considered in the main body of the report below.

A Tree Constraints Plan has been produced showing the root protection areas (RPAs) for the individual trees identified in the Tree Schedule (Appendix A). This represents the minimum area in m² which ideally should be left undisturbed around each tree were it to be retained. The RPA has been calculated in accordance with Section 4.6 of BS5837:2012 'Trees in relation to design, demolition and construction – Recommendations'.

The Tree Constraints Plan also shows a representation of the crown spread of each tree measured in four cardinal directions.

4

Hillside Trees Ltd 2 Hillside, Bowden Hill, Chilcompton, Radstock, BA3 4EN Tel: 01761 233244 E: enquiries@hillsidetrees.co.uk

Directors: A Rankine BSc (Forestry), Tech Cert (Arbor A), ProfArborA, S J Rankine BSc (Hons), Dip Arb L4, TechArborA

The preparation of the Tree Constraints Plan described above has assisted in the design of the site layout through presenting the above and below ground constraints posed to the development of the site by the trees present.

The trees on site are covered by South Gloucestershire Council Tree preservation Order 2019

2.1 Trees Identified for Retention

The proposed development involves the demolition of existing housing and replacing with 85 new housing units

The following on site trees will be retained

Tree / group nos	Common name	Total
T1	Sycamore	1
T2	Sycamore	1
T3	Hawthorn	1
T4	Ash	1
T5	Prunus	1
T6	Rowan	1
T7	Rowan	1
Т8	Norway maple	1
T9	Lime	1
T38	Lime	1
T43	Lime	1
G44	Lime	2
T46	Whitebeam	1
T48	Whitebeam	1
T49	London plane	1
T50	Norway maple	1
T51	Silver maple	1
T57	Field maple	1
G58	Cherry	2
	Total number retained	21

2.2 Trees Identified for Removal and Mitigation

The removal of the following trees is necessary in order for the project to go ahead and will be mitigated by the following number of trees under the South Gloucestershire Tree Replacement Standard

5

Hillside Trees Ltd 2 Hillside, Bowden Hill, Chilcompton, Radstock, BA3 4EN Tel: 01761 233244 E: enquiries@hillsidetrees.co.uk

Tree /	Number in	Common name	Stem diameter in	No. Replacement
group no	group		cm at 1.5m	trees needed
T10		Hawthorn	N/A - U category	N/A - U category
T11		Oak	2.90	2
T12		Cherry	3.60	3
T13		Cherry	3.60	3
T14		Whitebeam	5.90	5
T15		Whitebeam	N/A - U category	N/A - U category
T16		Silver maple	8.00	8
T17		Lime	4.10	4
T18		Cherry	4.60	4
G19	5	Alder	2.10	10
T20		Lime	5.59	5
T21		Hawthorn	3.10	3
T22		Cherry	1.20	1
T23		Ash	N/A - U category	N/A - U category
T24		Ash	N/A - U category	N/A - U category
G25	4	Alder	3.30	12
T26		Oak	4.60	4
T27		Cherry	N/A - U category	N/A - U category
T28		Cherry	N/A - U category	N/A - U category
G29	2	Field maple	4.00	8
T30		Ash	N/A - U category	N/A - U category
T31		Ash	N/A - U category	N/A - U category
G32	3	Alder	2.10	6
T33		Ash	N/A - U category	N/A - U category
G34	2	Field maple	3.50	6
T35		Cherry	3.50	3
T36		Lawson cypress	1.50	1
G37	3	Cherry	2.40	6
G39	2	Field maple	4.00	8
G40	4	Ash	N/A - U category	N/A - U category
T41		Norway maple	7.20	7
G42	2	Ash	N/A - U category	N/A - U category
T45		Ash	N/A - U category	N/A - U category
T47		Manna ash	N/A - U category	N/A - U category
T56		Whitebeam	4.50	4
T59		Manna ash	N/A - U category	N/A - U category
T60		Manna ash	N/A - U category	N/A - U category
	Total no. trees to			Total no. trees to
	be removed 55			be replaced 113

6

Hillside Trees Ltd 2 Hillside, Bowden Hill, Chilcompton, Radstock, BA3 4EN Tel: 01761 233244 E: enquiries@hillsidetrees.co.uk

Directors: A Rankine BSc (Forestry), Tech Cert (Arbor A), ProfArborA, S J Rankine BSc (Hons), Dip Arb L4, TechArborA

2.3 Trees Outside The Site Boundary

There are 5 trees outside the site boundary which were surveyed but are not affected within the current proposals.

3.0 Tree Protection

The trees to be retained on site during and after development as listed in Section 2.1 will require protection.

Protection measures based on the RPA's presented in the Arboricultural Impact Assessment Plan, will involve the erection of tree protection barriers as discussed in the Detailed Arboricultural Method Statement (Appendix B). Where the proposed site layout requires the breaching of these ideal areas, measures are recommended in order to minimise the damage to the roots and the root environment of the tree in question. Such measures acknowledge the fact that the extent, distribution and actual position of roots of a tree within the RPA are not known.

REFERENCES

Mattheck, C. and Breloer, H. (1995). The Body Language of Trees: A handbook for failure analysis. Research for Amenity Trees 4. HMSO, London, 240pp.

STANDARDS PUBLICATIONS

Trees in relation to design, demolition and construction – Recommendations (BS5837), British Standards Institution, London (2012)

Tree Work Recommendations (BS3998), British Standards Institution, London (2010)

Appendix A

Tree Schedule

Table 1 Cascade Chart taken from BS5837:2012 Trees in relation to design, demolition and construction – Recommendations.

Appendix A - Tree ScheduleBarrington Close, Fairford Close

Client: Bromford / EG Carter

Surveyor: Alister Rankine

Date of Survey: 14th January 2022



Tree Number	Single or Group	Number in group	Common Name	Scientific Name	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Root Protection Area (Radius, m)	Crown Clearance (m)	N - Radius (m)	S - Radius (m)	E - Radius (m)	W - Radius (m)	Age Class	Physiological Condition	ULE (Years)	Tree Structural Condition and Site Notes	BS Category
T1	S		Sycamore	Acer pseudopatanus	14	620	1	7.44	4	2	4	4	3	М	G	40+	Good	B2
T2	S		Sycamore	Acer pseudopatanus	14	530	1	6.36	3	3	2	4	4	М	G	40+	Good	B2
T3	S		Hawthorn	Crataegus monogyna	9	332	2	3.99	4	3	1	2	2	М	F	10-20	Fair	C1
T4	S		Ash	Fraxinus excelisor	10	200	1	2.40	3	2	2	4	1	М	F	<10	Fair	U
T5	S		Prunus	Prunus sp	11	340	1	4.08	2	4	3	3	3	М	F	10-20	Fair	C1
T6	S		Rowan	Sorbus aucuparia	6	100	1	1.20	2	1	1	2	1	М	F	10-20	Fair	C1
T7	S		Rowan	Sorbus aucuparia	7	120	1	1.44	2	1	1	1	1	М	F	10-20	Fair	C1
T8	S		Norway maple	Acer platanoides	13	520	1	6.24	3	4	4	4	4	М	G	40+	Good	B2
T9	S		Lime	Tilia x europaea	15	600	1	7.20	2	5	5	5	5	М	G	40+	Good	B2
T10	S		Hawthorn	Crataegus monogyna	6	367	6	4.41	2	1	1	1	1	М	Р	<10	Poor	U
T11	S		Oak	Quercus robur	8	290	1	3.48	2	5	3	3	4	М	G	40+	Good	B1
T12	S		Cherry	<i>Prunus</i> sp	9	360	1	4.32	2	4	4	4	4	М	F	20-40	Fair	C1
T13	S		Cherry	Prunus sp	9	360	1	4.32	4	2	5	3	5	М	F	20-40	Fair	C1
T14	S		Whitebeam	Sorbus aria	13	590	1	7.08	3	4	4	4	4	М	G	40+	Good	B1/2
T15	S		Whitebeam	Sorbus aria	11	470	1	5.64	2	3	3	3	3	М	F	<10	Poor	U
T16	S		Silver maple	Acer saccharinum	17	800	1	9.60	5	5	5	5	5	М	G	40+	Good	B1/2
T17	S		Lime	Tilia x europaea	17	410	1	4.92	2	4	4	4	4	М	G	40+	Good	B1/2
T18	S		Cherry	<i>Prunus</i> sp	12	460	1	5.52	3	4	4	4	4	М	G	20-40	Fair	C1
G19	G	5	Alder	Alnus glutinosa	9	210	1	2.52	3	2	2	2	2	М	F	20-40	Fair	C2
T20	S		Lime	Tilia x europaea	10	569	10	6.83	1	2	2	2	2	М	F	40+	Fair	C1
T21	S		Hawthorn	Crataegus monogyna	5	310	15	3.72	2	1	1	1	1	М	F	10-20	Poor	C1
T22	S		Cherry	Prunus sp	5	120	1	1.44	2	1	1	1	1	М	F	10-20	Fair	C1
T23	S		Ash	Fraxinus excelisor	8	200	1	2.40	2	2	2	2	2	М	F	<10	Fair	U
T24	S		Ash	Fraxinus excelisor	9	280	1	3.36	3	3	3	3	3	М	F	<10	Fair	U
G25	G	4	Alder	Alnus glutinosa	11	330	1	3.96	3	2	2	2	3	М	F	20-40	Fair	C2
T26	S		Oak	Quercus robur	12	460	1	5.52	3	6	6	6	6	М	G	40+	Good	B1/2
T27	S		Cherry	Prunus sp	8	300	1	3.60	3	2	2	2	2	М	Р	<10	Poor	U
T28	S		Cherry	Prunus sp	8	310	1	3.72	3	4	4	4	4	М	Р	<10	Poor	U
G29	G	2	Field maple	Acer campestre	9	400	1	4.80	2	3	3	3	3	М	F	20-40	Fair	C1/2
T30	S		Ash	Fraxinus excelisor	5	150	1	1.80	3	2	2	2	2	М	Р	<10	Poor	U

Tree Number	Single or Group	Number in group	Common Name	Scientific Name	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Root Protection Area (Radius, m)	Crown Clearance (m)	N - Radius (m)	S - Radius (m)	E - Radius (m)	W - Radius (m)	Age Class	Physiological Condition	ULE (Years)	Tree Structural Condition and Site Notes	BS Category
T31	S		Ash	Fraxinus excelisor	9	450	1	5.40	3	4	4	4	4	М	F	<10	Fair	U
G32	G	3	Alder	Alnus glutinosa	8	210	1	2.52	3	2	2	2	2	М	F	10-20	Fair	C1
G33	G	3	Ash	Fraxinus excelisor	9	320	1	3.84	3	4	4	4	4	М	F	<10	Fair	U
G34	G	2	Field maple	Acer campestre	10	350	1	4.20	3	4	4	2	3	М	F	20-40	Fair	C1
T35	S		Cherry	Prunus sp	8	350	1	4.20	4	4	1	4	4	М	Р	10-20	Fair	C1
T36	S		Lawson cypress	Chamaecyparis lawsoniana	8	150	1	1.80	0	1	1	1	1	М	F	20-40	Fair	C1
G37	G	3	Cherry	Prunus sp	6	240	1	2.88	2	3	3	3	3	М	Р	10-20	Poor	C1
T38	S		Lime	Tilia x europaea	16	760	1	9.12	3	6	6	6	6	М	G	40+	Good	B1/2
G39	G	2	Field maple	Acer campestre	10	400	1	4.80	2	4	4	4	4	М	F	10-20	Fair	C1
G40	G	4	Ash	Fraxinus excelisor	12	230	1	2.76	3	4	4	4	4	М	F	<10	Fair	U
T41	S		Norway maple	Acer platanoides	15	720	1	8.64	5	6	6	6	6	М	G	40+	Good	B1/2
G42	G	2	Ash	Fraxinus excelisor	11	250	1	3.00	3	4	4	4	4	М	F	<10	Fair	U
T43	S		Lime	Tilia x europaea	16	560	1	6.72	4	5	5	5	5	М	G	40+	Good	B1/2
G44	G	2	Lime	Tilia x europaea	16	500	1	6.00	5	5	5	5	5	М	G	40+	Good	B1/2
T45	S		Ash	Fraxinus excelisor	16	680	1	8.16	4	6	6	6	6	М	G	<10	Good	U
T46	S		Whitebeam	Sorbus aria	12	500	1	6.00	4	3	3	3	3	М	F	20-40	Fair	C1/2
T47	S		Manna ash	Fraxinus ornus	8	410	1	4.92	2	3	3	3	3	М	Р	<10	Poor	U
T48	S		Whitebeam	Sorbus aria	8	490	1	5.88	2	3	3	3	3	М	F	20-40	Fair	C1/2
T49	S		London plane	Platanus x hispanica	14	460	1	5.52	2	1	5	5	6	М	F	40+	Fair	C1/2
T50	S		Norway maple	Acer platanoides	13	420	1	5.04	3	3	3	3	3	М	F	40+	Fair	C1/2
T51	S		Silver maple	Acer saccharinum	18	800	1	9.60	3	8	8	8	8	М	G	40+	Good	B1/2
T52	S		Whitebeam	Sorbus aria	12	450	1	5.40	2	3	3	3	3	М	F	20-40	Fair. Off site	C1/2
T53	S		Ash	Fraxinus excelisor	10	450	1	5.40	3	4	4	4	4	М	F	<10	Fair. Off site	U
G54	G	2	Alder	Alnus glutinosa	8	250	1	3.00	3	2	2	2	2	М	F	10-20	Fair. Off site	C1
T55	S		Ash	Fraxinus excelisor	10	520	1	6.24	3	4	4	4	4	М	F	<10	Fair. Off site	U
T56	S		Whitebeam	Sorbus aria	9	450	1	5.40	5	3	3	3	3	М	F	10-20	Fair	C1
T57	S		Field maple	Acer campestre	9	300	1	3.60	3	3	3	3	3	М	F	20-40	Fair	C1
G58	G	2	Cherry	Prunus sp	8	270	1	3.24	2	3	3	3	3	М	F	10-20	Fair	C1
T59	S		Manna ash	Fraxinus ornus	7	380	1	4.56	3	2	2	2	2	М	F	<10	Fair	U
T60	S		Manna ash	Fraxinus ornus	6	269	2	3.23	2	2	2	2	2	М	Р	<10	Poor	U

Table 1 – Cascade chart for tree quality assessment

Category and definition			Identification on plan	
Category U Those in such condition that they cannot realistically b retained as living trees in the context of the current land use for longer than 10 years	Trees that have a serious, in collapse, including those that whatever reason, the loss of Tree that are dead or show a Trees infected by pathogens quality trees suppressing other NOTE Category U trees can have see 4.5.7	RGB code 127-000-000 AutoCAD 246		
TREES TO BE CONSIDERED FO	OR RETENTION	Criteria - Subcategories		lala a (Maratiana a a antara
Category and definition	1 Mainly arboricultural qualities	Identification on plan		
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue	Trees groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture	LIGHT GREEN RGB code: 000-255-000 AutoCAD 90
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value	MID BLUE RGB code: 000-000-255 AutoCAD 170
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value	GREY RGB code: 091-091-091 AutoCAD 252

Appendix B

Detailed Arboricultural Method Statement



Arboricultural Method Statement Tree Protection Plan

BARRINGTON CLOSE, FAIRFORD CLOSE



On behalf of

Bromford / EG Carter

Sue Rankine BSc (hons), Dip Arb L4, *TechArborA Arboricultural Consultant*

December 2023



Arboricultural Method Statement

INTRODUCTION

The purpose of this document is to give a step by step guide to protecting trees on this site. It is vital that all members of the team are familiar with it so that they not only understand **why** trees need protecting but also **how** they are to be protected and their own role in protecting them.

THE IMPORTANCE OF TREES

- Trees play a crucial role in the fight against climate change. One mature tree can absorb in the region of 1 tonne of carbon during its lifetime the world needs all the trees it can get
- Trees are an important wildlife habitat, for example many insects and birds rely on them for food and shelter
- Trees are an integral part of human habitat. People like trees for their landscape value and for their shading and sheltering properties

WHAT WILL CAUSE DAMAGE TO A TREE?

- Wounds to the trunk or limbs of a tree can let in pathogens which could go on to infect and eventually even kill a tree
- Removal of branches decreases the number of leaves a tree has. Leaves are vital to the tree for manufacture of the energy they need through photosynthesis
- Compaction of the soil around a tree will damage its roots making it unable to absorb water or oxygen which can result in the tree's death. The extent of the roots are shown on the Tree Protection Plan in the document below as Root Protection Areas or RPA's

HOW YOU AND YOUR TEAM CAN PREVENT DAMAGE TO TREES

- Ensure all members of the team read this document before work starts
- Follow the instructions given, don't cut corners
- Take pride in protecting trees treated well they will outlive you and continue to give benefit for years to come

Planning permission for this project depends on this method statement being followed. Dealing with breaches of condition is far harder, more time consuming and costly than following the instructions. Failure to comply could even result in prosecution.

THE PROJECT ARBORICULTURALIST IS ON HAND TO HELP. IF IN DOUBT, PLEASE RING FOR ADVICE. 01761 233244

10

Hillside Trees Ltd.

2 Hillside, Bowden Hill, Chilcompton, Radstock, BA3 4EN
Tel: 01761 233244 E: enquiries@hillsidetrees.co.uk

Directors: A Rankine BSc (Forestry), Tech Cert (Arbor A), ProfArborA, S J Rankine BSc (Hons), Dip Arb L4, TechArborA



December 2023

This Method Statement Comprises:

- 1. Method Statement Document
- 2. Appendices:
 - I. Schedule of Tree Removal
 - **II.** Tree Protection Site Notice
 - **III. Temporary Ground Protection**
- 3. Tree Protection Plan (231130-BCFC-TPP-SD)

THESE DOCUMENTS ARE TO BE KEPT TOGETHER

Full Site Address:

Barrington Close and Fairford Close Bristol BS15

Proposed Development:

The proposed development involves the demolition of existing housing and replacing with 85 new housing units

Contacts:

Clients:

Bromford and EG Carter

Project Manager (for the client):

Mathew Vye

Carter Construction

Telephone: 01452 529194

Email: mathewvye@egcarter.co.uk

Contractor / Builder:

To be confirmed

Site Manager:

To be confirmed



December 2023

Arboricultural Officer:

Lea Bending Arboricultural Officer South Gloucestershire Council

Tel: 01454 865859

Email: lea.bending@southglos.gov.uk

Project Arboriculturalist:

Sue Rankine Hillside Trees Ltd.

Telephone: 01761 233244 Email: sue@hillsidetrees.co.uk

Works Requiring Tree Protection / Works:

Development	Tree Numbers	Type of Protection / Works	Reference
Operations			
Site traffic and	T10 – G37, G39 – G42,	Remove	Appendix I
general	T45, T47, T56, T59, T60		
construction			
	T1 – T9, T38, T43, G44,	Tree protection barriers	
	T46, T48 – T51, T57, G58	Tree protection site notices	Appendix II
		Temporary ground protection (T1,	Appendix III
		T5 and T9 only)	

Sequencing of Operations:

The tree protection measures appropriate for the site operations below, if required by the Local Planning Authority will be monitored by the Project Arboriculturalist.

It will be the responsibility of the Project Manager and / or the Site Manager to inform the Project Arboriculturalist if site visits and reports are required and to arrange them accordingly.



December 2023

Please note: If the Project Manager and / or the Site Manager fails to inform the Project Arboriculturalist when site monitoring is required and the schedule of monitoring visits is not followed, it will not be possible to issue a Certificate of Compliance at the end of the project.

1. Pre-commencement site meeting

a. The Appointed Contractor will co-ordinate with the Project Arboriculturalist to discuss and agree the site operations programme and tree protection.

2. Carry out tree removal (See Appendix I)

- a. All tree removal will be carried out by a suitably qualified and experienced tree surgeon
- All works will be carried out to industry best practice and will be in accordance with BS3998

3. Install tree protection barriers

- a. Tree protection barriers will be installed in the locations shown on the Tree Protection Plan
- b. The areas between the tree protection barriers and the trees will be a construction exclusion zone (CEZ's)
- c. Tree protection barriers will be r 'Heras' weldmesh panels secured in robust bases and tightly clamped.
- d. Site notices will be securely fixed to the tree protection barrier panels (Appendix II)
- e. There will be no movement of tree protection barriers unless it is overseen by the Project Arboriculturalist
- f. No activity is planned to take place within the CEZ's; however, any work that does take place within the CEZ's will require approval of the Local Planning Authority and will be overseen and approved by the Project Arboriculturalist.

4. Installation of temporary ground protection

- a. Temporary ground protection will be installed in the location indicated on the Tree Protection Plan.
- b. Ground protection will consist of scaffold boards or heavy duty chip board placed on top of a compression-resistant layer (e.g. 100mm depth woodchip) laid on to a geo-textile membrane.

5. Construction of new buildings

a. Construction of the new buildings will not require access to the CEZ's.

6. Installation of services

a. Installation of services will not require access to the CEZ's

7. Construction of bin storage area in north west of site

a. Temporary ground protection will be lifted in order to install the bin storage area

8. Removal of tree protection barriers and ground protection

- a. Tree protection barriers and ground protection will only be removed once all works associated with the development have been completed (with the exception of the bin storage area in point 7 above). These include:
 - Construction and fitting out of the new dwellings
 - Installation of services

General Precautions

1. Site office, welfare facilities and site storage compound will be positioned outside the CEZ's. The location will be agreed between the Site Manager and the Project Arboriculturalist prior to commencement of the project.



December 2023

- 2. Any crane or plant for the manoeuvring of materials will be sited on locations to be agreed between the Site Manager and the Project Arboriculturalist prior to commencement of the project. All crane operations should be conducted under the supervision of a banksman to ensure adequate clearance from the retained trees is maintained at all times.
- 3. No materials that are likely to have an adverse effect on tree health will be stored or discharged within 10 metres of the trunk of a tree that is to be retained. Consideration will be given to the implications of storing materials upslope of this exclusion zone in order to avoid the risk of potential spillages leaching down-slope and contaminating the Root Protection Area of a tree. Such materials include:
 - Oil
 - Bitumen
 - Cement
- 4. No fires will be lit unless the site of the fire is agreed with the Project Arboriculturalist.
- 5. Concrete will not be mixed or transported over unprotected ground, within 10 metres of the trunk of any tree.
- 6. In the event of unforeseen incidents occurring that may adversely affect or threaten the welfare or security of the trees, the Site Manager shall inform the Project Arboriculturalist at the earliest opportunity and not more than one working day following the incident.
- 7. The Project Arboriculturalist will visit the site to inspect and assess the circumstances and make any appropriate recommendations. The Local Planning Authority Arboricultural Officer will be informed by the Project Arboriculturalist of such incidents and recommendations will be submitted for approval by the Local Planning Authority, initially verbally, and then in writing.
- 8. A record of any emergency incidents and works shall be maintained by the Project Arboriculturalist.
- 9. Incidents which may merit such contingency plans include:
 - Accidental / unauthorised damage to the limbs, roots or trunk of trees
 - The spillage of chemicals within or adjacent to a Root Protection Area
 - The discharge of toxins / waste within or adjacent to a Root Protection Area



December 2023

• The un-scheduled breaching of a tree protective barrier or Construction Exclusion Zone.

This Method Statement has Been Informed by the Following Information

- Arboricultural Site Survey carried out by Hillside Trees Ltd on 14th January 2022
- Topographical Survey. Anthony Brookes Surveys Ltd Drawing No: 710/12110/1A and 710/12110/1B
- Proposed Site Plan. Nash Partnership Drawing No: 21027-NP-XX-XX-DR-A-1002-3 Proposed Site Plan
- BS5837: 2012 'Trees in relation to design, demolition and construction Recommendations'



December 2023

Appendix I

Schedule of Tree Removal

Tree Number	Work Specification
T10 – G37, G39 – G42, T45, T47, T56, T59, T60	Take down to ground level Take out roots or grind stumps

All tree surgery works will be carried out by a suitably qualified and experienced tree surgeon

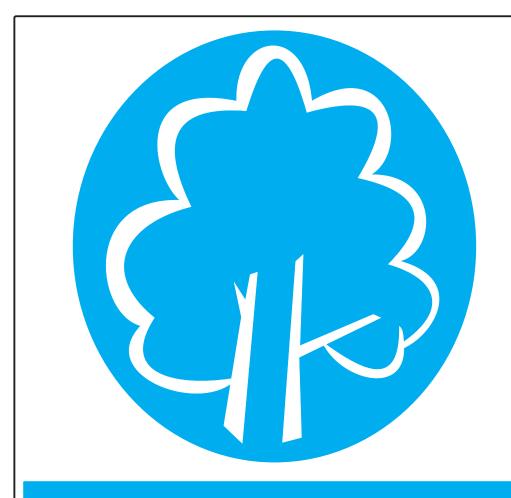
All works will be carried out to industry best practice and will be in accordance with BS3998:2010 'Works to Trees'



December 2023

Appendix II

Tree Protection Site Notice



PROTECTIVE FENCING. THIS
FENCING MUST BE
MAINTAINED IN ACCORDANCE
WITH THE APPROVED PLANS
AND DRAWINGS FOR THIS
DEVELOPMENT.



TREE PROTECTION AREA KEEP OUT!

(TOWN & COUNTRY PLANNING ACT 1990)
TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY
PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A
TREE PRESERVATION ORDER.

CONTRAVENTION OF A TREE PRESERVATION ORDER MAY
LEAD TO CRIMINAL PROSECUTION

ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY



Appendix III

Barrington Close, Fairford Close

Temporary Ground Protection



Temporary Ground Protection Method and Specification

BS5837 recognizes that incursions in to the construction inclusion zones will be required at times during some developments.

The objective is to minimize soil compaction

Example 1 - for pedestrian movements only, a single thickness of scaffold boards places either on top of a driven scaffold frame, so as to form a suspended walkway, or on top of a compression-resistant layer (e.g.) 100mm depth of woodchip), laid on to a geotextile membrane.

Example 2 - For pedestrian-operated plant up to a gross weight of 2 t, proprietary inter-linked ground protection boards placed on top of a compression-resistant layer (e.g. 150mm depth of woodchip), laid onto a geotextile membrane;

Example 3 - For wheeled or tracked construction traffic exceeding 2 t gross weight, an alternative system (e.g. proprietary systems or pre-cast reinforced concrete slabs) to an engineering specification designed conjunction with arboricultural advice, to accommodate the likely loading to which it will be subjected.

WOODEN BOARDING/TRACK-WAY

WOODCHIP 100mm-200mm

GEOTEXTILE MEMBRANE



December 2023

Tree Protection Plan

Drawing no: 231130-BCFC-TPP-SD

