



ARBORICULTURAL METHOD STATEMENT

to BS 5837:2012 at:

Land at
Paddock Road
Staincross
Barnsley
S75 6LG

This document describes how the trees will be protected and managed during the development of this site. It explains how and when the protection measures must be installed and maintained throughout the development.

A copy of this document report must be permanently available on site for the duration of all development activity and should be referenced for practical guidance on how to protect the retained trees at this site.

Prepared for:
RMH Properties Ltd

Date: *March 2024*

Reference: AWA5708



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1. Introduction

1.1 Instruction

- 1.1.1 We have been instructed by RMH Properties Ltd to prepare an arboricultural method statement for the proposed development.

1.2 Purpose

- 1.2.1 This method statement has been prepared in order to demonstrate that the development operations at this site can be undertaken with minimal risk of adverse impact on the trees to be retained.
- 1.2.2 This method statement conforms to BS 5837:2012 *Trees in relation to design, demolition and construction - Recommendations*. It is based on the arboricultural data, collected at a site visit during September 2022, detailed within Appendix 3 of this report.

1.3 Description of Development

- 1.3.1 It is proposed to build a new residential development with associated access, parking, landscaping and facilities. The proposed development layout has been provided by my client and is the basis for the Tree Protection Plan at Appendix 4.

1.4 Details of Consent

- 1.4.1 Planning consent is subject to this method statement being agreed upon in advance by the Local Planning Authority. The contents of this report must be adhered to, before, during, and after the construction phase.
- 1.4.2 As such, no equipment, machinery or materials shall be brought onto the site in connection with the development until this arboricultural method statement detailing tree management and tree protection measures has been submitted to and approved by the Local Planning Authority.

1.5 Legal

- 1.5.1 The following advice is for guidance purposes only. Some trees are protected by legislation, and it is essential that the legal status of trees is established prior to carrying out works to them.
- 1.5.2 Unauthorised work to protected trees could lead to prosecution, resulting in enforcement action such as fines or a criminal record. Tree Preservation Orders, Conservation Areas, Planning Conditions, Felling Licences or Restrictive Covenants legally protect many trees in the UK.
- 1.5.3 An online search has been carried out with Barnsley Metropolitan Borough Council on 04/03/24 to ascertain whether any trees at the site are located within a Conservation area or are protected by a Tree Preservation Order (TPO). As of this date no trees within the site are legally protected.
- 1.5.4 Due to the large potential penalties for illegally carrying out work to protected trees, before authorising any tree works a further check should be made with the Local Planning Authority to confirm if any trees are covered by a Tree Preservation Order or are within a Conservation Area. If either applies, then statutory permission is required before any works can take place. Statutory permission is not required for the removal of deadwood.
- 1.5.5 The Multi-Agency Geographical Information for the Countryside (MAGIC) website was used to search for areas of ancient woodlands listed on the Ancient Woodland (DEFRA 2021), and a check for catalogued Ancient and Veteran trees using the woodland trust ancient tree inventory (Woodland Trust 2021).
- 1.5.6 It was confirmed that there are no designated ancient woodlands or veteran trees within the survey area.
- 1.5.7 Trees provide a wide range of habitats for many species, some of which are legally protected such as bats, nesting birds, badgers and dormice. It is essential that appropriate care is taken to ensure that this legislation is not contravened.
- 1.5.8 When appointing a tree surgeon, only properly qualified and experienced companies should be used, who have adequate Public Liability and Employer's Liability Insurance. All tree work should be carried out according to British Standard 3998:2010 Tree Work - Recommendations.

2. Method Statement Timeline

2.1 Overview of Sequence of Operations

2.1.1 In overview, it is necessary to undertake the following sequence of operations in relation to arboricultural input for development operations.

- 1 Method statement approved by the LPA
- 2 Undertake tree works
- 3 Install tree protection measures
- 4 Pre commencement meeting/ confirm fencing is as specified
- 5 Construct new development
- 6 Remove tree protection fencing

2.2 Specific Sequence of Operations

2.2.1 The following timeline table informs the key principles for development operations proceeding in relation to arboricultural requirements conditioned as part of this method statement.

2.2.2 The actions and timescales within this table must be adhered to in order to discharge the arboricultural method statement planning condition for this site.

2.2.3 The precise timing and order of some of the development operations may need to be changed due to site specific operational requirements, yet any operations that may affect the trees on the site must be done so under arboricultural supervision by a suitably qualified person appointed by the contractor.

Sequence of Operations		
Stages	Action	Arboricultural Input
1 Approval	This AMS is submitted to and approved in writing by the LPA.	If necessary, liaise with contractor and LPA to discuss methodologies detailed.
2 Tree Works	Tree removals and pruning works shall be carried out as the first operation on site, in accordance with Appendix 3 and as detailed in section 3.1.	Review the tree work requirements with the tree contractor. If necessary, liaise with the contractor on site during tree works.
3 Tree Protection	Installation of the tree protection measures will take place as shown at Appendix 4, prior to any storage of plant, materials and machinery.	If necessary, liaise with the contractor installing the tree protection measures until completed to the standard specified in this method statement.
4 Site Meeting	Following installation of tree protection measures, the LPA shall be invited to inspect the fencing and tree works and discuss any other site operations that have implications for trees.	Meeting with a representative of the LPA and the site manager. Alternatively, contractor can confirm the protection measures, and tree works are as specified by taking photographs.
5 Construction	Undertake the construction of the new development.	If necessary, liaise with the local authority and the site foreman to ensure any issues are adequately resolved.
6 Site Finishing	Removal of tree protection fencing must only be undertaken when all site traffic and machinery has left the site.	If acceptable to the LPA, the contractor can take photographs of the site to give to the LPA to gain approval for the removal of the tree protection fencing.

3. Tree Management

3.1 Tree Works

- 3.1.1 G8, G11, G12, T14, T15, T16, T18, G34 and T35: Remove these to facilitate the development, (detailed in red on the protection plan).
- 3.1.2 G3, G7, G13, G17, G25, G29 and G30: Partially remove or prune these back as required to facilitate the development, (detailed in red on the protection plan).
- 3.1.3 All tree work must be carried out according to British Standard 3998:2010 Tree Work - Recommendations.
- 3.1.4 When appointing a tree surgeon, only properly qualified and experienced companies should be used, who have adequate Public Liability and Employer's Liability Insurance.

4. Tree Protection

4.1 Tree Protection Fencing

- 4.1.1 The tree protection fencing for this site should be located as shown on the Tree Protection Plan at Appendix 4 (as illustrated with a purple line).
- 4.1.2 The tree protection fencing will be appropriate to the degree and proximity of likely construction works. In this instance, due to the ground conditions an adequate level of protection for the trees could be provided by secured 'Heras' type fencing, of welded mesh panels on rubber or concrete feet.
- 4.1.3 For lower value shrub and hedge groups heavy duty plastic mesh fencing, secured to steel stakes, or where suitable, secure wooden site hoardings, will provide adequate protection. As shown on the Tree Protection Plan at Appendix 4 (as illustrated with a pink line).
- 4.1.4 The precise fencing location may need to be slightly adjusted on site due to local site conditions but is not expected to differ from that shown on the Tree Protection Plan. The final fencing position must be agreed

on by the LPA before the commencement of any site works.

- 4.1.5 The tree protection fencing details should be incorporated into relevant subsequent plans, method statements used for design purposes and construction drawings issued for use on site, to ensure that all interested parties are fully aware of the areas in which access and works may and may not take place.
- 4.1.6 The fencing should be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence (see Appendix 1 for an example). The fencing panels should be supported on the inner side by stabilizer struts, which should normally be attached to a base plate secured with ground pins or mounted on a block tray (see Appendix 1 for an example).
- 4.1.7 The area enclosed by the fencing is referred to as the Construction Exclusion Zone (CEZ); this area should be considered a restricted area. No pedestrians, vehicles, storage of materials, equipment or machinery should be allowed within the CEZ unless specified in this method statement. The site manager must ensure that all personnel are aware of the restrictions that apply to the fenced-off area.
- 4.1.8 Once the fencing is erected, waterproof warning signs labelled 'Tree Protection Area' should be placed at 3m intervals to ensure that all personnel are aware of the restrictions that apply to the fenced-off area (see at Appendix 1 for example signs).
- 4.1.9 The tree protection fencing should 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 should be repaired or replaced as soon as is reasonably practicable.
- 4.1.10 The Tree Protection Fencing shall not be removed, breached or altered without prior written authorisation from the local planning authority and under arboricultural supervision by a suitable named responsible individual appointed by the site manager.

4.2 Drainage and Utilities

- 4.2.1 New drainage and underground utilities are to be positioned outside of the RPAs of retained trees, and above ground utilities will be routed away from areas where they are likely to interfere with the retained trees' crowns.
- 4.2.2 NJUG 10: Guidelines for the Planning, Installation and Maintenance of Utility Services in Proximity to Trees should be considered when installing services.

4.3 Additional Precautions

- 4.3.1 Allowance should be made for operations outside of the CEZ that could indirectly impact on trees. Including space for site huts, temporary toilet facilities (including their drainage) and other temporary structures; and space for storing (whether temporary or long-term) materials.
- 4.3.2 Care must be taken to prevent contamination with chemical spillages, including petrol, diesel and oils. Cement mixers and any other toxic materials should not be permitted within the RPA of the trees. Any materials whose accidental spillage would cause damage to a tree should be stored and handled well away from the outer edge of its RPA.
- 4.3.3 Fires on the site should be avoided if possible. Where they are unavoidable, and approved by the Local environmental health authority, they should not be lit in a position where heat could affect foliage or branches. The potential size of a fire and the wind direction should be considered when determining its location, and it should be attended always until safe enough to leave.

4.4 Post Construction Landscaping

- 4.4.1 Many of the 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 fencing will have been removed and the property may be occupied.

- 4.4.2 Landscaping works should be carried out in such a way as to avoid ground level changes or deep digging. Tractor mounted rotovation or other mechanised cultivation methods must not be used.
- 4.4.3 No heavy machinery should be brought into the vicinity of retained trees.
- 4.4.4 Herbicides should be appropriate for the purpose and should not be used in such a way as to damage any retained trees or vegetation.

5. Signature

I trust this report provides all the required information.

Signed



Adam Winson

Chartered Arboriculturist, MSc, BSc (Hons), MICFor, AIEEM

5th March 2024

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Appendix 1: Images and Figures

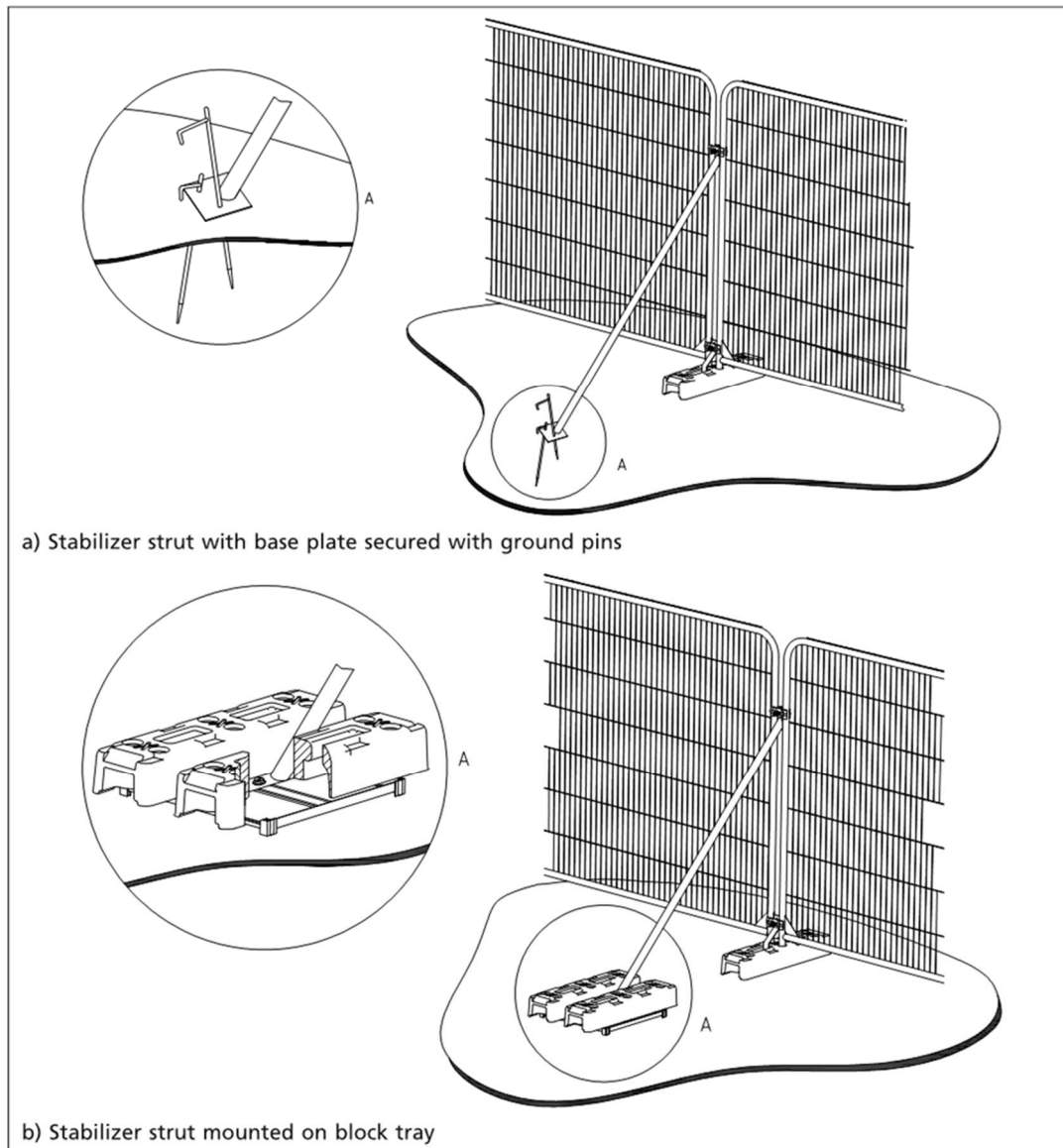


Figure 1: Secured 'Heras' type fencing with stabilizing system and fixed central pins (©BSI)



Figure 2: Secured 'Heras' type fencing with stabilizing system and anti-tamper couplers



Figure 3: Plastic mesh fencing secured with heavy duty metal stakes



Figure 4: Warning sign for fencing



Figure 5: Example of A3 correx tree protection warning sign fixed to fencing panel

Appendix 2: Relevant Contact Details

Contact Name	Organisation/ Details	Contact Number	Contact E-mail
CHERYL BELL	RMH Properties Ltd	01226 385834	rbdsLtd@yahoo.com
Adam Winson	AWA Tree Consultants Ltd	0114 272 1124	adam@awatrees.com
Edward Jowett	Barnsley Tree Officer Development Management	01226 772557	EdwardJowett@barnsley.gov.uk

	Tree Species			Measurements				Crown (m)				Tree Condition							Value		Management	
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
G1	Privet	Ligustrum ovalifolium	Semi-mature	2	10+	40 avg	No	0	See Plan				No visual defects	Multiple stemmed at base, Vertical, Tight union	Old pruning wounds, Minor deadwood	Managed boundary hedge.	Good	Good	>40 yrs	Low	C	No works required
T2	Lawson Cypress	Chamaecyparis lawsoniana	Semi-mature	6	1	160	Yes	1	1.5	1.5	1.5	1.5	No visual defects, Limited access around base	Single stemmed, Vertical	Minor deadwood	Limited visibility due to boundary hedge.	Good	Good	>40 yrs	Low	C	No works required
G3	Blackthorn, Hawthorn	Prunus sp. Crataegus sp.	Semi-mature	5	10+	60 avg	No	1	See Plan				Soil erosion, Adjacent ground works	Multiple stemmed at base, Slight lean, Old pruning wounds, Stubs, Epicormic growths, Tight union	Unbalanced, Minor deadwood, Snapped / hanging branches	Unmanaged boundary hedge, relatively sparse.	Fair	Fair	20 to 40 yrs	Low	C	Prune back southern third to facilitate new development
T4	Horse Chestnut	Aesculus hippocastanum	Semi-mature	5	1	170	Yes	2	1	1	1.5	1	No visual defects	Multiple stemmed at 1.5m, Vertical, Old pruning wounds, Epicormic growths, Tight union	No visual defects		Fair	Good	>40 yrs	Low	C	No works required
T5	Lawson Cypress	Chamaecyparis lawsoniana	Semi-mature	10	1	320	Yes	2	2.5	3	2	2	No visual defects	Single stemmed, Vertical	Minor deadwood		Good	Good	>40 yrs	Moderate	C	Crown lift eastern overhanging crown to clear 3m, to facilitate new development

	Tree Species			Measurements				Crown (m)					Tree Condition							Value		Management
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
T6	Ash	Fraxinus excelsior	Semi-mature	6.5	1	210	Yes	3	2	2	1.5	2	No visual defects	Single stemmed, Slight lean, Old pruning wounds	Stubs		Good	Fair	10 to 20 yrs	Low	C	No works required
G7	Leyland Cypress	X Cuprocyparis leylandii	Semi-mature	2.5	10+	60 avg	No	0	See Plan				Soil erosion, Adjacent ground works	Single stemmed or Multiple stemmed at base, Vertical, Old pruning wounds, Stubs, Tight union	Old pruning wounds	Boundary hedge. Minor excavations close to roots along southern boundary.	Fair	Good	20 to 40 yrs	Low	C	Remove/prune back western half to facilitate new development
G8	Blackthorn	Prunus spinosa	Young	5	10+	40 avg	No	0.5	See Plan				No visual defects	Single stemmed or Multiple stemmed at base, Vertical, Tight union	No visual defects	Dense group of young to semi mature shrubby trees.	Good	Good	>40 yrs	Low	C	Remove to facilitate new development
T9	Oak	Quercus robur	Early-mature	14	1	400	Yes	3.5	3	5	4	4	No visual defects, Limited access around base	Single stemmed, Vertical, Old pruning wounds, Epicormic growths	Minor deadwood	Very limited visibility due to high boundary wall. Distance from site boundary estimated.	Good	Good	>40 yrs	Moderate	B	No works required
T10	Sycamore	Acer pseudoplatanus	Early-mature	12	2	340, 280	Yes	4	4	4	3	3	No visual defects, Limited access around base	Twin stemmed, Vertical, Old pruning wounds	No visual defects	very limited visibility due to high boundary wall. Distance from site boundary estimated.	Good	Good	>40 yrs	Moderate	B	No works required
G11	Blackthorn	Prunus spinosa	Young	5	10+	80 avg	No	0.5	See Plan				Adjacent ground works	Single stemmed or Multiple stemmed at base, Vertical, Tight union	No visual defects	Dense group of young to semi mature trees.	Good	Good	>40 yrs	Low	C	Remove to facilitate new development

	Tree Species			Measurements				Crown (m)				Tree Condition							Value		Management	
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
G12	Elder, Hawthorn, Holly	<i>Sambucus sp.</i> <i>Crataegus sp.</i> <i>Ilex sp.</i>	Semi-mature	5	10+	90 avg	No	0	2	2	2	2	Soil compaction, Adjacent ground works	Multiple stemmed at base, Slight lean, Stubs, Tight union	Minor deadwood, Snapped / hanging branches	Dense group, full of brambles. Earth has recently been piled up to west of stems.	Fair	Fair	20 to 40 yrs	Low	C	Remove to facilitate new development
G13	Hawthorn	<i>Crataegus monogyna</i>	Semi-mature	5	10+	130 avg	No	1	See Plan				Soil compaction, Adjacent ground works	Multiple stemmed at base, Significant lean, Bark damage, Tight union	Stubs, Moderate deadwood, Snapped / hanging branches	Linear group forming a single canopy. Several sparse sections & areas full of brambles. Occasional Elder. Possibly a managed hedge in the past.	Fair	Fair	>40 yrs	Low	C	Prune back western crowns to facilitate new development Could be enhanced with additional planting & managed as a boundary hedgerow.
T14	Hawthorn	<i>Crataegus monogyna</i>	Early-mature	6	6	170 avg	No	0.5	3.5	4.5	3.5	3	Soil compaction, Adjacent ground works	Twin stemmed at base, Multiple stemmed at 1m, Slight lean, Tight union, Partially included bark	Stubs, Minor deadwood	Earth has been piled up to west of stem. Surrounded by smaller Elders.	Good	Fair	>40 yrs	Low	C	Remove to facilitate new development
T15	Hawthorn	<i>Crataegus monogyna</i>	Semi-mature	5	1	230	No	0.5	4	2.5	2	3	Soil compaction	Single stemmed, Slight lean, Old pruning wounds, Epicormic growths, Tight union, Minor cavities, Bark damage	Minor deadwood	Surrounded by smaller Elders & Hawthorn saplings.	Good	Fair	>40 yrs	Low	C	Remove to facilitate new development

	Tree Species			Measurements				Crown (m)				Tree Condition							Value		Management	
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
T16	Hazel	<i>Corylus avellana</i>	Semi-mature	6.5	10+	70 avg	No	1.5	4	4.5	3	5	Soil compaction	Multiple stemmed at base, Vertical, Tight union, Partially included bark, Stubs	Minor deadwood	Dense mass of stems. Smaller Elder at base.	Good	Fair	20 to 40 yrs	Low	C	Remove to facilitate new development
G17	Hawthorn	<i>Crataegus monogyna</i>	Semi-mature	5	10+	130 avg	No	1	See Plan				Soil compaction, Adjacent ground at higher level	Multiple stemmed at base, Significant lean, Bark damage, Tight union	Stubs, Moderate deadwood, Snapped / hanging branches	Linear group forming a single canopy. Several sparse sections & areas full of brambles. Occasional Elder. Possibly a managed hedge in the past.	Fair	Fair	>40 yrs	Low	C	Prune back western crowns to facilitate new development Could be enhanced with additional planting & managed as a boundary hedgerow.
T18	Cherry	<i>Prunus avium</i>	Semi-mature	7.5	2	130, 90	No	1.5	1.5	1	2	1.5	Soil compaction, Adjacent ground works	Twin stemmed at base, Slight lean, Tight union, Bark damage, Stubs	No visual defects	Earth has been piled up to west of stem.	Good	Fair	20 to 40 yrs	Low	C	Remove to facilitate new development
T19	Sycamore	<i>Acer pseudoplatanus</i>	Semi-mature	9	2	190, 160	No	3	2.5	3.5	2.5	3	Soil compaction, Adjacent ground works	Twin stemmed at base, Vertical, Epicormic growths, Bark damage	No visual defects	Growing within Hawthorn group. Earth has been piled up to west of stem.	Good	Fair	>40 yrs	Moderate	C	No works required
G20	Hawthorn	<i>Crataegus monogyna</i>	Semi-mature	2	10+	60 avg	No	0	See Plan				No visual defects	Single stemmed, Vertical, Old pruning wounds, Tight union	Old pruning wounds	Well managed hedge.	Good	Good	>40 yrs	Low	C	No works required

Tree Species				Measurements				Crown (m)					Tree Condition							Value		Management
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
T21	Willow	Salix fragilis	Mature	15	1	630	No	3	6	8	2.5	5.5	Soil compaction	Single stemmed, Significant lean, Bark damage, Stubs	Minor dieback, Major deadwood, Snapped / hanging branches	Large superficial bark wound from base to 1.5m on west of stem. Further longer wound on western limb that overhangs an entrance to the recreation area. Large eastern branch at 2m has partially snapped & is resting in adjacent foliage. Several small Hawthorn saplings at base.	Fair	Poor	<10 yrs	Moderate	U	Removal advised regardless of any development, but tree may not be in site owners property
T22	Willow	Salix fragilis	Mature	15	1	560	No	2	6	6.5	3	6	Soil compaction	Single stemmed, Slight lean, Stubs, Bark damage	Moderate deadwood, Snapped / hanging branches. Large eastern & south eastern branches have partially snapped & are resting on the ground.	Surrounded by small Hawthorn saplings. Full risk assessment advised due to likelihood of further branch failures, but tree is likely to have very limited prospects.	Fair	Poor	10 to 20 yrs	Moderate	C	Remove failed branches regardless of any development
T23	Sycamore	Acer pseudoplatanus	Semi-mature	14	2	220, 130	No	1	4	5	2.5	2	No visual defects	Twin stemmed at 1m, Slight lean, Tight union, Partially included bark	Minor deadwood	Surrounded by small Hawthorn saplings.	Fair	Good	>40 yrs	Moderate	C	No works required

Tree Species				Measurements				Crown (m)					Tree Condition								Value		Management
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works	
T24	Willow	Salix fragilis	Mature	15	1	580	No	2	8.5	7.5	5	7.5	No visual defects	Single stemmed, Vertical, Stubs, Bark damage	Moderate deadwood, Snapped / hanging branches	Several eastern branches have snapped & are resting on the ground or in surrounding foliage. Full risk assessment advised, but tree is likely to have relatively limited prospects.	Fair	Fair	20 to 40 yrs	Moderate	C	Remove failed branches regardless of any development	
G25	Elder, Hawthorn	Sambucus sp. Crataegus sp.	Semi-mature	2	10+	80 avg	No	0	See Plan				No visual defects	Single stemmed, Vertical, Old pruning wounds, Tight union	Old pruning wounds	Well managed hedge. Occasional much larger stem, but managed at same height.	Good	Good	>40 yrs	Low	C	Prune back eastern crowns to facilitate new development Could be enhanced with additional planting & managed as a boundary hedgerow.	
G26	Elder, Hawthorn	Sambucus sp. Crataegus sp.	Semi-mature	2	10+	80 avg	No	0	See Plan				Soil compaction, Adjacent ground works	Single stemmed, Vertical, Old pruning wounds, Tight union	Old pruning wounds	Well managed hedge. Earth piled up against stems to north. Occasional much larger stem, but managed at same height.	Good	Good	>40 yrs	Low	C	No works required	
T27	Sycamore	Acer pseudoplatanus	Young	6.5	1	110	No	2	1	1.5	1	1	Soil compaction, Adjacent ground works	Single stemmed, Tight union	No visual defects	Earth piled up against northern side of stem.	Good	Fair	10 to 20 yrs	Low	C	No works required	

	Tree Species			Measurements				Crown (m)					Tree Condition							Value		Management
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
G28	Blackthorn	Prunus spinosa	Semi-mature	4	10+	50 avg	No	0.5	See Plan				Soil compaction	Multiple stemmed at 1m, Vertical, Old pruning wounds, Stubs, Epicormic growths	Old pruning wounds	Growing in narrow strip between footpath & boundary fence, managed as a hedge on western side. Occasional Elder.	Fair	Fair	20 to 40 yrs	Low	C	No works required
G29	Leyland Cypress	X Cuprocyparis leylandii	Semi-mature	4	10+	80 avg	No	0	See Plan				No visual defects	Single stemmed or Multiple stemmed at base, Slight lean, Old pruning wounds, Stubs, Tight union	Old pruning wounds, Minor deadwood	Southern section is growing against & over a wooden fence. Managed as a hedge on the top & on the eastern/northern side.	Fair	Good	20 to 40 yrs	Low	C	Remove southern section to facilitate new development
G30	Hawthorn	Crataegus monogyna	Semi-mature	6	10+	60 avg	No	1	See Plan				Soil compaction	Multiple stemmed at base, Old pruning wounds, Stubs, Epicormic growths, Tight union, Partially included bark	Minor deadwood	Boundary hedge. Previously managed at a smaller size, now overgrown. Various stones piled around the stems.	Fair	Fair	20 to 40 yrs	Low	C	Remove/prune back eastern half to facilitate new development
T31	Hawthorn	Crataegus monogyna	Semi-mature	6.5	1	200	Yes	2	0.5	1	2	0.5	No visual defects, Limited access around base	Single stemmed, Significant lean, Ivy covered	Small / sparse, Ivy in crown	Very limited visibility due to boundary fence & dense ivy.	Poor	Fair	10 to 20 yrs	Low	C	No works required

	Tree Species			Measurements				Crown (m)					Tree Condition							Value		Management
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
T32	Hawthorn	Crataegus monogyna	Early-mature	6.5	2	240, 210	Yes	2	2.5	2.5	1.5	2.5	No visual defects, Limited access around base	Twin stemmed at base, Significant lean, Ivy covered	Small / sparse, Old pruning wounds, Minor deadwood, Ivy in crown	Growing directly to north of 1m retaining wall. Very limited visibility due to boundary fence & dense ivy.	Poor	Fair	10 to 20 yrs	Low	C	No works required
T33	Hawthorn	Crataegus monogyna	Semi-mature	5	1	140	Yes	1.5	1	2.5	1.5	1	No visual defects	Single stemmed, Significant lean, Tight union, Ivy covered	Minor deadwood, Old pruning wounds	Growing to north of 1m retaining wall.	Good	Fair	20 to 40 yrs	Low	C	No works required
G34	Apple	Malus domestica	Semi-mature	2	10+	100 avg	No	0.5	See Plan				No visual defects	Multiple stemmed at base, Stubs, Old pruning wounds	Old pruning wounds	Espalier fruit trees.	Fair	Good	20 to 40 yrs	Low	C	Remove to facilitate new development
T35	Japanese Maple	Acer palmatum	Semi-mature	3	3	120, 110, 70	No	1	2	2	1.5	1	No visual defects	Multiple stemmed, at base, Slight lean, Tight union	Old pruning wounds		Good	Good	>40 yrs	Low	C	Remove to facilitate new development

Heras tree protection fencing



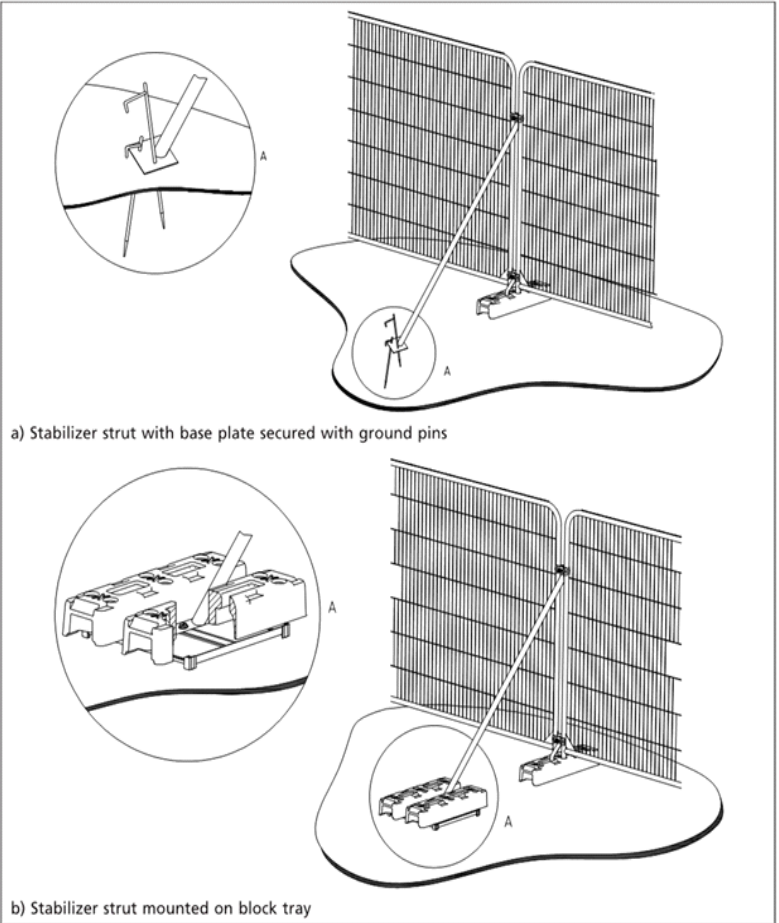
Mesh hedge protection fencing



Warning sign for fencing



Heras tree protection fencing



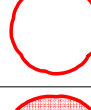
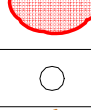
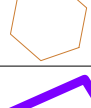
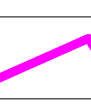


Appendix 4:
Tree Protection Plan

28 Paddock Road, Barnsley, S75 6LG
Ref: AWA5708

BRITISH STANDARD 5837:2012

SCALE: 1:500 PAPER: A1

	TREE/ TREE GROUP/ HEDGE TO BE RETAINED
	TREE/ TREE GROUP/ HEDGE TO BE REMOVED
	TREE/ TREE GROUP/ HEDGE TO BE PRUNED
	TREE STEM
	RPA: ROOT PROTECTION AREA
	HERAS TREE PROTECTION FENCING
	MESH HEDGE /SHRUB PROTECTION FENCING