



Arboricultural Method Statement for: Hawke Ridge Business Park

Inspected and prepared by

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Prepared for

Bellway Homes Limited
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Report date

17th June 2026

Site address

Hawke Ridge Business Park
Mill Lane
Hawkeridge
Westbury
BA13 4LD

Report reference

HawkeRidge_AMS_062026

Planning Reference

TBC

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1.0 Introduction

- 1.1 This preliminary arboricultural method statement (**AMS**) is intended to provide initial details and specifications for all tree protection measures and arboricultural related operations necessary during the construction of a residential development on land adjacent Hawk Ridge Business Park in Westbury (Figures 1 and 2) and will form the basis of a detailed arboricultural method statement if required through planning condition should the scheme achieve consent and if further arboricultural detail is considered necessary by Wiltshire Council. This AMS has been informed by Assured Trees Arboricultural Impact Assessment ref: *HawkeRidge_AIA_062026*.

Site location:



Figure 1: Site Location indicated by orange arrow
Source: Streetmap¹.



Figure 2: Red line indicates approximate site limits.
Source: Google Maps².

- 1.2 **The proposal** is for the erection of: (i) 1 No. retail convenience store (Class E), 3 No. flexible retail units (Class E), and roadside drive-through unit (sui generis); (ii) a 64-bed care home (Class C2); and (iii) 249 No. residential dwellings (Class C3) with associated access, green and blue infrastructure works.
- 1.3 Copies of this AMS will be kept on site and the site manager will communicate the content to all staff and contractors with duties that involve working near trees or have the potential to impact retained trees.

¹ <https://www.streetmap.co.uk/>

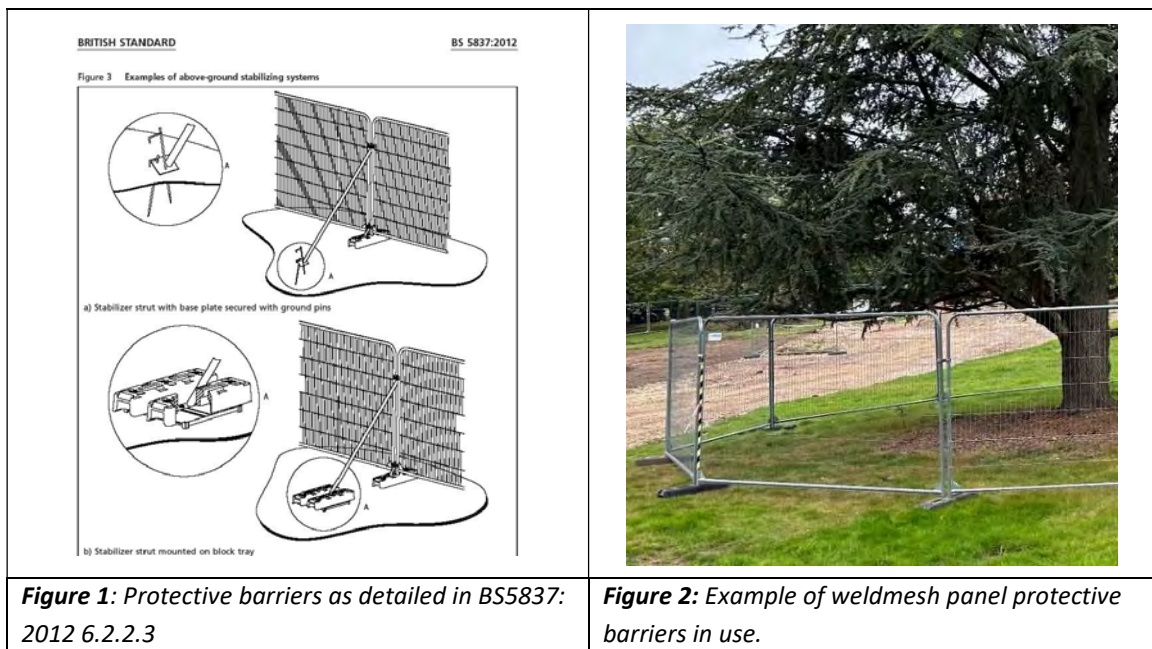
² <https://www.google.com/maps>

2.0 Arboricultural works

- 2.1 Prior to any site preparation or construction works on site hedge 19 will be removed. Tree works will be carried out in accordance with *BS3998:2010 Tree work – Recommendations*.

3.0 Tree protection

- 3.1 **Barriers:** Following the removal of H19 and before the commencement of any site preparation or construction works, protective barriers will be installed in the positions indicated on the Tree Protection Plan in accordance with BS5837: 2012 6.2.2.3. The barriers will consist of 2 metre tall welded mesh panels on rubber feet and will be well braced to resist impact as illustrated in figures 1 and 2.



- 3.2 The protective barriers will create Construction Exclusion Zones (**CEZ**) in order to prevent construction activity of any kind, including the storage of materials, within the unprotected RPA of retained trees. The barriers will remain in place until the completion of all adjacent development works unless otherwise stated within this AMS. **The barriers must not otherwise be moved or altered in any way without the written consent of Wiltshire Council.** If site constraints require the alteration of the barriers then the project arboriculturalist will first be consulted who will take the necessary steps to obtain appropriate consent.

4.0 Works within Root Protection Areas (RPAs)

- 4.1 No works are required within the RPA of a retained tree or hedge.
- 4.2 **Buried services** are not required within the RPA of a retained tree or hedge. If services are required to run within the RPA of a retained tree for unforeseen reasons, they will be installed in accordance with the National Joint Utilities Group (NJUG) Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees - Issue 2: 16th November 2007³.

5.0 Access for construction works

- 5.1 Construction traffic will enter the north and south sites via the existing entrances from Mill Lane and will not access the unprotected RPA of a retained tree at any time.
- 5.2 Construction compounds, material storage areas, welfare facilities and contractor car parking areas will be located outside of the RPAs of retained trees.

6.0 Additional precautions outside of the construction exclusion zone

- 6.1 Fires will not be lit in a position where heat could affect the foliage or branches of a retained tree, no equipment, machinery, structure, notice boards, telephone cables or other services will be attached to or supported by a retained tree.
- 6.2 Cement, fuel and any other chemicals that could be harmful to retained trees will be stored and mixed in designated areas as far away from the outer edge of all RPAs as possible using spill trays to ensure accidental spillages will not contaminate RPAs. Spill kits will be kept on site at all times and all staff will be briefed on the location and correct use of the spill kits.
- 6.3 Planning of site operations will take sufficient account of wide loads, tall loads and plant with booms, jibs and counterweights (including drilling rigs), in order that they can operate without coming into contact with retained trees. Any transit or traverse of plant in proximity to trees will be conducted under the supervision of a banksman, to ensure that adequate clearance from trees is maintained at all times.

³ <http://streetworks.org.uk/wp-content/uploads/V4-Trees-Issue-2-16-11-2007.pdf>

7.0 Supervision and monitoring

- 7.1 Assured Trees Ltd will be responsible for the monitoring of all tree protection measures and compliance with this Arboricultural Method Statement. A pre-commencement site meeting will be held between a minimum of the site foreman and the project arboriculturalist to fully communicate the measures detailed within this AMS. A certificate of compliance will be issued to the client for the operations listed in table 1.

No.	Operation
1	Pre-commencement site meeting between a minimum of the site foreman and the project arboriculturalist.
2	Erection of tree protection barriers in the position shown on the Tree Protection Plan.
3	Compliance with this AMS- post construction issue.

Table 1: Operations for which a certificate of compliance may be produced.

8.0 Contingency plans

- 8.1 The occurrence of any unforeseen incidents that may adversely impact retained trees will be reported to Assured Trees as soon as practicable following the incident. Assured Trees will then advise on the appropriate course of action and will produce and maintain a record of any such incidents including any subsequent measures taken.

9.0 Sequence of works

Development stage	Sequence number	Operation	Details
Pre-development	01	Preparatory works	Removal of hedge 19.
	02	Installation of tree protection	Installation of temporary tree protection barriers in the initial positions indicated on the Tree Protection Plan.
Main construction phase	03	All works	Main construction phase with no access to unprotected RPAs.
Post - construction	04	Removal of tree protection	- Removal of temporary protective barriers following completion of all construction and hard landscape works. - Soft landscape works including mitigation tree planting.

Table 2: Sequence of works

Appendix B: Tree Protection Plan





Symbol Guide

Category

Root Protection Area

Crown Spread

Tree Number

Category

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/Remove
Line of Protective Fencing	Proposed Tree for Removal

NOTE: Tree/group numbers marked with an * have approximate locations.



ASSURED TREES

Project Name:

Hawke Ridge Business Park, Mill Lane, Hawkeridge, Westbury, BA13 4LD

Drawing Title:

Tree Protection Plan

Drawing Number:

260619-HR-TTP-Rev A-DB&AM&NB

Client:

-

Date:

June 2026

Scale:

1:1000 @ A1

Appendix C: Tree Survey Schedule



Tree Survey Schedule	
Client: Bellway Homes Limited, Woolsington House, Woolsington, Newcastle Upon Tyne, NE13 8BF	
Location: Hawke Ridge Business Park, Mill Lane, Hawkeridge, Westbury BA13 4LD	
Surveyor: Stuart Roberts	

Tree Number	Single (S) or Group (G)	Tree Name (species)	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Crown Clearance (m)	Height & direction of 1 st branch	Crown spread				Age Class	Physiological Condition	Structural Condition	Condition Notes	Recommendations	Estimated Remaining Life Contribution	BS Category	Root Protection Area (Radius, m)
								North(m)	South(m)	East (m)	West (m)								
01	S	Pear	6	130	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.6
02	S	Pear	6	140	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.7
03	S	Pear	6	120	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.4
04	S	Pear	6	120	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.4
05	S	Pear	6	130	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.6
06	S	Pear	6	140	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.7
07	S	Pear	6	120	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.4
08	S	Pear	6	120	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.4
09	S	Pear	6	110	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge, stem lean north.	None.	40+	C1	1.3
10	S	Pear	7	130	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.6
11	S	Pear	6	130	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.6
12	S	Pear	6	130	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.6
13	S	Pear	6	140	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.7

Tree Number	Single (S) or Group (G)	Tree Name (species)	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Crown Clearance (m)	Height & direction of 1 st branch	Crown spread				Age Class	Physiological Condition	Structural Condition	Condition Notes	Recommendations	Estimated Remaining Life Contribution	BS Category	Root Protection Area (Radius, m)
								North(m)	South(m)	East (m)	West (m)								
14	S	Pear	6	120	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.4
15	S	Pear	5	100	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.2
16	S	Pear	5	100	1	2	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.2
17	H	Field maple	1.5	100	1	0	---	See tree constraints plan				Y	G	G	Field boundary field maple hedge trimmed to form.	None.	40+	C1	1.2
18	H	Mixed species	1.5	100	1	0	---	See tree constraints plan				Sm	G	G	Field boundary hedge on west site boundary containing field maple, hazel, hawthorn and Elder, managed to form.	None.	40+	C2	1.2
19	H	Mixed species	1.5	80	1	0	---	See tree constraints plan				Y	P	P	Sporadic field boundary hedge dominated by bramble growth with occasional field maple, elm and hawthorn, top flailed to form.	Remove hedge to facilitate proposals.	10+	C2	1.0
20	H	Mixed species	5	120	1	0	---	See tree constraints plan				Y	G	F	Field boundary hedgerow comprised of recently planted willow, hawthorn, hazel, field maple, alder and beech, many of which are still in tree shelters or still have tree ties attached, no recent management, significant number of small dead trees due to shading.	None.	40+	C3	1.4
21	S	Willow	8	260	1	2	2-S	3	3	3	3	Y	G	G	Young willow within hedgerow on the north site boundary, twin stem from 2m from good union.	None.	40+	C1	3.1
22	S	Willow	11	270	1	2	2-E	3	3	3	3	Y	G	G	Young willow within hedgerow on the north site boundary, twin stem from 2m from narrow union, branch tears in lower crown to the south.	None.	40+	C1	3.2
23	S	Willow	11	240	1	2	2-N	3	3	3	3	Y	G	G	Young single stem willow within hedgerow on the north site boundary.	None.	40+	C1	2.9

Tree Number	Single (S) or Group (G)	Tree Name (species)	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Crown Clearance (m)	Height & direction of 1 st branch	Crown spread				Age Class	Physiological Condition	Structural Condition	Condition Notes	Recommendations	Estimated Remaining Life Contribution	BS Category	Root Protection Area (Radius, m)
								North(m)	South(m)	East (m)	West (m)								
24	S	Willow	11	310	1	2	2-E	3	3	3	3	Y	G	G	Young willow within hedgerow on the north site boundary, twin stem from 2m from narrow union, branch tears in lower crown to south.	None.	40+	C1	3.7
25	S	Willow	10	280	1	2	2-E	3	3	4	3	Y	G	G	Young willow within hedgerow on the north site boundary, branch tears in lower crown to south.	None.	40+	C1	3.4
26	S	Willow	10	250	1	2	2-N	2	2	4	3	Y	G	G	Young willow within hedgerow on the north site boundary, crown suppressed to south.	None.	40+	C1	3.0
27	S	Willow	9	190	1	2	2-N	3	2	3	3	Y	G	G	Young willow within hedgerow on the north site boundary, crown suppressed to west.	None.	40+	C1	2.3
28	S	Willow	11	270	1	1.5	1.5-E	2	3	3	3	Y	G	G	Young willow within hedgerow on the north site boundary, crown suppressed to east.	None.	40+	C1	3.2
29	S	Willow	10	210	1	1.5	1.5-E	3	1	1	3	Y	G	G	Young willow within hedgerow on the north site boundary, crown bias north west.	None.	40+	C1	2.5
30	S	Willow	11	280	1	1.5	1.5-N	3	2	3	2	Y	G	G	Young willow within hedgerow on the north site boundary, crown bias north east.	None.	40+	C1	3.4
31	S	Willow	10	220	1	1.5	2-N	3	3	2	3	Y	G	G	Young willow within hedgerow on the north site boundary, minor crown suppression to north.	None.	40+	C1	2.6
32	S	Willow	10	210	1	1.5	1.5-N	2	2	2	3	Y	G	G	Young willow within field boundary hedgerow, crown bias west.	None.	40+	C1	2.5
33	S	Willow	10	280	1	2	2-N	4	3	3	3	Y	G	G	Young willow within field boundary hedgerow, multi stem from 2m from narrow unions with bark inclusion.	None.	40+	C1	3.4
34	S	Willow	10	200	1	1	2-N	3	2	2	3	Y	G	G	Young willow within field boundary hedgerow, twin stem from 2m from good union.	None.	40+	C1	2.4
35	S	Willow	10	300	1	1	2-S	3	3	3	3	Y	G	G	Young willow within field boundary hedgerow, multi stem from 2m.	None.	40+	C1	3.6
36	S	Willow	9	240	1	2	2-S	2	2	2	3	Y	G	G	Young willow within field boundary hedgerow, multi stem from 2m.	None.	40+	C1	2.9

Tree Number	Single (S) or Group (G)	Tree Name (species)	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Crown Clearance (m)	Height & direction of 1 st branch	Crown spread				Age Class	Physiological Condition	Structural Condition	Condition Notes	Recommendations	Estimated Remaining Life Contribution	BS Category	Root Protection Area (Radius, m)
								North(m)	South(m)	East (m)	West (m)								
37	S	Willow	10	290	1	0	2-N	3	3	3	2	Y	G	G	Young willow within field boundary hedgerow, multi stem from 2m.	None.	40+	C1	3.5
38	S	Willow	9	210	1	2	2-N	2	2	2	2	Y	G	G	Young willow within field boundary hedgerow, suppressed crown form.	None.	40+	C1	2.5
39	S	Goat willow	11	750	1	0	2-S	5	6	3	4	Om	P	P	Large off-site goat willow adjacent to the north site boundary, 2 large scaffold limbs have failed and are resting at ground level, one large scaffold limb remains to the south, significant decay in the main stem, prolific arboreal ivy.	None.	10+	B3	9.0
40	G	Damson	7	140	1	0	---	See tree constraints plan				Sm	G	F	Dense off-site tree group adjacent to site boundary.	None.	20+	C1	1.7
41	S	Willow	12	370	1	2	2-S	2	3	4	3	Sm	G	G	Willow within field boundary hedgerow, multi stem from 2m, crown suppressed to north.	None.	40+	C2	4.4
42	G	Willow	12	270	1	2	2-N	2	1	3	2	Sm	G	G	Single stem willow within field boundary hedgerow, suppressed crown form, significant squirrel damage in upper crown.	None.	40+	C2	3.2
43	S	Willow	12	360	1	1	1-E	3	3	3	3	Sm	G	G	Willow within field boundary hedgerow, crown suppressed to north, significant squirrel damage in upper crown.	None.	40+	C2	4.3
44	S	Ash	9	340	1	3	3-S	3	4	4	4	Sm	P	F	Off-site ash adjacent site boundary and overhanging a footpath style, sparse crown, symptomatic of Ash Dieback Disease with 50%-75% remaining crown (class 2).	None.	<10	C1	4.1
45	H	Mixed species	5	140	1	0	---	See tree constraints plan				Y	G	G	Recently planted hedgerow on the site boundary adjacent footpath containing field maple, beech, hawthorn, hazel, holly and blackthorn, tree shelters and tree ties still in place, no management since planting.	Consider laying the hedge.	40+	C2	1.7

Tree Number	Single (S) or Group (G)	Tree Name (species)	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Crown Clearance (m)	Height & direction of 1 st branch	Crown spread				Age Class	Physiological Condition	Structural Condition	Condition Notes	Recommendations	Estimated Remaining Life Contribution	BS Category	Root Protection Area (Radius, m)
								North(m)	South(m)	East (m)	West (m)								
46	H	Mixed species	5	150	1	0	---	See tree constraints plan				M	F	F	Hedgerow on the site boundary adjacent to a footpath, sporadic to the south and dominated by hawthorn, becoming denser to the north and dominated by blackthorn, also including elm, hazel, elder and goat willow, no recent management.	None.	40+	C2	1.8
47	S	Horse chestnut	5	255	2	1	1-N	2	3	3	2	Y	F	F	Small chestnut on the bank of Bitham Brook, minor symptoms of bacterial bleeding canker.	None.	40+	C1	3.0
48	S	Willow	12	1,380	1	1.5	1.5-S	5	5	5	5	Om	G	F	Old willow pollard on the bank of Bitham Brook, hollow main stem with cavity opening to the south, historically managed as a pollard but with no recent management.	None.	20+	B3	15.0
49	S	Horse chestnut	5	330	1	1	1-E	3	3	4	3	Y	F	F	Small chestnut on the bank of Bitham Brook, minor symptoms of bacterial bleeding canker.	None.	40+	C1	4.0
50	S	Horse chestnut	5	220	1	1	1-S	3	3	4	3	Y	F	F	Small chestnut on the bank of Bitham Brook, minor symptoms of bacterial bleeding canker.	None.	40+	C1	2.6
51	S	Willow	15	600	1	0	1-N	7	5	6	4	M	F	P	Willow on the north side of Bitham Brook, severe wound on main stem from 0-2m from large limb failure, advanced decay within the wound, stem lean and crown bias south.	None.	<10	C2	7.2
52	S	Willow	14	320	1	1	1-W	3	2	3	2	Sm	G	G	Willow on field margin, minor crown suppression to the east.	None.	40+	C2	3.8
53	S	Willow	14	240	1	2	2-E	2	2	2	2	Sm	G	G	Willow on field margin, drawn up slender crown form.	None.	40+	C2	2.9
54	S	Willow	14	260	1	1	2-E	3	3	2	3	Sm	G	G	Willow on field margin, multi stem from 2m.	None.	40+	C2	3.1
55	S	Goat Willow	12	374	4	1	1-S	4	4	4	4	Sm	G	F	Goat willow on north bank of watercourse, multi-stem from base, brambles established in lower crown.	None.	40+	C2	4.5

Tree Number	Single (S) or Group (G)	Tree Name (species)	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Crown Clearance (m)	Height & direction of 1 st branch	Crown spread				Age Class	Physiological Condition	Structural Condition	Condition Notes	Recommendations	Estimated Remaining Life Contribution	BS Category	Root Protection Area (Radius, m)
								North(m)	South(m)	East (m)	West (m)								
56	H	Mixed species	5	100	1	0	---	See tree constraints plan				Y	G	F	Recently planted field boundary hedgerow containing hazel, beech, alder, hawthorn, holly, willow and field maple, many are still in tree shelters or have tree ties still attached, no recent management.	None.	40+	C1	1.2
57	S	Willow	12	280	1	1	1-S	3	2	2	3	Sm	G	G	Goat willow on field margin, multi-stem from 2m, minor crown suppression to south.	None.	40+	C2	3.4
58	S	Willow	12	240	1	1	1-S	3	3	3	3	Sm	G	G	Goat willow on field margin, twin stem from 2m from good union, established epicormic growth at base.	None.	40+	C2	2.9
59	S	Norway maple	7	140	1	2	2-S	2	2	2	2	Y	G	G	Young maple planted in roadside verge, good condition.	None.	40+	C1	1.7
60	S	Norway maple	6	120	1	2	2-E	2	2	2	2	Y	G	G	Young maple planted in roadside verge, good condition.	None.	40+	C1	1.4
61	H	Elm and hawthorn	5	100	1	0	---	See tree constraints plan				Y	P	P	Short section of field boundary hedgerow dominated by elm the majority of which are dead or dying.	Remove dead and dying elm.	10+	C2	1.2
62	H	Elm and hawthorn	6	150	1	0	---	See tree constraints plan				Sm	P	P	Section of field boundary hedgerow adjacent Mills Road dominated by elm a significant quantity of which are dead or dying from Dutch elm disease.	Remove dead and dying elm.	10+	C2	1.8
63	S	Goat willow	5	255	8	1	1.5-N	2	2	2	2	Y	G	F	Multi stem from 0.5m, prolific bramble growth in lower crown.	None.	20+	C1	3.0
64	G	Goat willow	4	226	8	0	---	See tree constraints plan				Y	G	F	Linear tree group containing young multi-stem goat willows growing within a drainage ditch to the north west of the field boundary hedge adjacent Mills Road.	None.	20+	C1	2.7
65	S	Willow	12	370	1	2	2-N	3	4	3	4	Sm	G	G	Willow between a field boundary hedge and a drainage ditch, multi-stem from 2m from good unions.	None.	40+	C2	4.4

Tree Number	Single (S) or Group (G)	Tree Name (species)	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Crown Clearance (m)	Height & direction of 1 st branch	Crown spread				Age Class	Physiological Condition	Structural Condition	Condition Notes	Recommendations	Estimated Remaining Life Contribution	BS Category	Root Protection Area (Radius, m)
								North(m)	South(m)	East (m)	West (m)								
66	S	Willow	14	420	1	2	2-N	4	4	3	3	Sm	G	G	Willow between field a boundary hedge and a drainage ditch, multi stem from 2m from good unions.	None.	40+	C2	5.0
67	S	Willow	10	300	1	1	2-W	3	3	2	2	Sm	G	G	Willow between field a boundary hedge and a drainage ditch, multi stem from 2m from good unions.	None.	40+	C2	3.6
68	S	Willow	10	280	1	2	2-S	3	3	2	3	Sm	G	G	Willow between field a boundary hedge and a drainage ditch, multi stem from 2m from good unions.	None.	40+	C2	3.36
69	G	Goat willow	5	226	8	0	---	See tree constraints plan				Y	G	F	Group of young multi-stem goat willow growing around a drainage ditch near the site boundary.	None.	20+	C1	2.7
70	S	Field maple	4	50	1	1	2-N	1	0	0	1	Y	G	F	Recently planted amenity tree.	None.	40+	C1	0.6
71	S	Field maple	4	70	1	2	2-N	1	1	1	1	Y	G	G	Recently planted amenity tree.	None.	40+	C1	0.8
72	S	Field maple	4	80	1	2	2-N	1	1	1	1	Y	G	G	Recently planted amenity tree.	None.	40+	C1	1.0
73	S	Field maple	4	80	1	2	2-N	1	1	1	1	Y	G	G	Recently planted amenity tree.	None.	40+	C1	1.0
74	S	Field maple	4	80	1	2	2-N	1	1	1	1	Y	G	G	Recently planted amenity tree.	None.	40+	C1	1.0
75	S	Field maple	4	80	1	2	2-N	1	1	1	1	Y	G	G	Recently planted amenity tree.	None.	40+	C1	1.0
76	H	Field maple	2	50	1	0	---	See tree constraints plan				Y	G	G	Young site boundary field maple hedge, managed to form.	None.	40+	C1	0.6
77	S	Pear	5	130	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.6
78	S	Pear	6	140	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.7
79	H	Field maple	2	50	1	0	---	See tree constraints plan				Y	G	G	Young field maple hedge in roadside verge, managed to form.	None.	40+	C1	0.6
80	S	Pear	5	130	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.6

Tree Number	Single (S) or Group (G)	Tree Name (species)	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Crown Clearance (m)	Height & direction of 1 st branch	Crown spread				Age Class	Physiological Condition	Structural Condition	Condition Notes	Recommendations	Estimated Remaining Life Contribution	BS Category	Root Protection Area (Radius, m)
								North(m)	South(m)	East (m)	West (m)								
81	S	Pear	5	130	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.6
82	S	Pear	5	120	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.4
83	S	Pear	5	120	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.4
84	S	Pear	4	110	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.3
85	S	Pear	4	110	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.3
86	H	Hawthorn	2	100	1	0	---	See tree constraints plan				Sm	G	G	14m section of hawthorn hedge in roadside verge trimmed to form.	None.	40+	C1	1.2
87	H	Field maple	2	50	1	0	---	See tree constraints plan				Y	G	G	Young site boundary field maple hedge, managed to form.	None.	40+	C1	0.6
88	S	Pear	5	130	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge.	None.	40+	C1	1.6
89	S	Pear	5	120	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge	None.	40+	C1	1.4
90	S	Pear	5	130	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge	None.	40+	C1	1.6
91	S	Pear	5	110	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge	None.	40+	C1	1.3
92	S	Pear	5	120	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge	None.	40+	C1	1.4
93	S	Pear	5	110	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge	None.	40+	C1	1.3
94	S	Pear	5	100	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge	None.	40+	C1	1.2
95	S	Pear	5	110	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge	None.	40+	C1	1.32

Tree Number	Single (S) or Group (G)	Tree Name (species)	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Crown Clearance (m)	Height & direction of 1 st branch	Crown spread				Age Class	Physiological Condition	Structural Condition	Condition Notes	Recommendations	Estimated Remaining Life Contribution	BS Category	Root Protection Area (Radius, m)
								North(m)	South(m)	East (m)	West (m)								
96	S	Pear	5	120	1	1.5	1.5-S	1	1	1	1	Y	G	G	Young amenity tree planted in road side verge adjacent field boundary hedge	None.	40+	C1	1.4
97	S	Hawthorn	4	265	7	0	0.5-S	3	3	2	2	Sm	G	F	Hawthorn growing adjacent site boundary closed board fence, multi-stem from ground level.	None.	20+	C1	3.2
98	G	Mixed species	7	150	1	0	---	See tree constraints plan				Y	G	G	Young tree plantings on site boundary including blackthorn, hawthorn, alder, birch and field maple, tree shelters still in place.	None.	40+	C1	1.8
99	S	Willow	15	450	1	2	2-S	3	4	4	5	Sm	G	G	Willow on site boundary, multi-stem from 2m from narrow unions.	None.	40+	C2	5.4
100	S	Willow	15	440	1	3	2.5-S	4	2	4	3	Sm	G	G	Willow on site boundary, minor crown suppression to south.	None.	40+	C2	5.3
101	H	Mixed species		50	1	0	---	See tree constraints plan				Y	G	G	Field boundary mixed species hedgerow contains young hazel, birch, hawthorn and field maple beneath the canopy of occasional semi-mature willows. Currently unmanaged with many tree shelters still in place.	None.	40+	C3	0.6
102	S	Willow	14	420	1	1.5	1.5-S	5	4	3	4	Sm	G	G	Willow on site boundary, multi-stem from 1.5m from narrow unions, brambles established in lower crown.	None.	40+	C2	5.0
103	S	Willow	14	270	1	2	2-N	2	3	3	2	Y	G	G	Willow on site boundary, minor crown suppression to west.	None.	40+	C2	3.2
104	S	Willow	14	370	1	2	2-S	5	3	4	3	Sm	G	G	Willow on site boundary, multi stem from 2m from narrow unions.	None.	40+	C2	4.4
105	S	Willow	14	390	1	1.5	2-W	4	3	3	4	M	G	G	Willow on site boundary, multi stem from 3m from good unions.	None.	40+	C2	4.7
106	S	Willow	12	210	1	1.5	1.5-E	3	1	3	2	Sm	G	F	Small willow, crown suppressed to the south-west, triple stem from 3.5m.	None.	40+	C2	2.5
107	S	Willow	13	340	1	2	2-N	3	3	2	3	Sm	G	G	Willow on site boundary, twin stem from 2m from narrow union.	None.	40+	C2	4.1

Tree Number	Single (S) or Group (G)	Tree Name (species)	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Crown Clearance (m)	Height & direction of 1 st branch	Crown spread				Age Class	Physiological Condition	Structural Condition	Condition Notes	Recommendations	Estimated Remaining Life Contribution	BS Category	Root Protection Area (Radius, m)
								North(m)	South(m)	East (m)	West (m)								
108	S	Willow	13	330	1	2	2-E	3	3	3	3	Sm	G	G	Willow on site boundary, triple stem from 2m from narrow unions.	None.	40+	C2	4.0
109	S	Willow	13	420	1	2	2-N	4	3	4	3	Sm	G	G	Willow on site boundary, multi-stem from 2m from narrow unions.	None.	40+	C2	5.0
110	S	Willow	14	460	1	2	2-N	4	3	3	4	Sm	G	G	Site boundary willow, multi-stem from 2m from narrow unions.	None.	40+	C2	5.5
111	S	Willow	14	320	1	2	2-N	3	3	2	2	Sm	G	G	Site boundary willow with suppressed crown form.	None.	40+	C2	3.8
112	S	Willow	14	370	1	2	2-N	4	4	4	3	Sm	G	G	Site boundary willow, multi-stem from 2m from narrow unions.	None.	40+	C2	4.4
113	S	Willow	14	370	1	2	2-S	4	3	3	4	Sm	G	G	Site boundary willow, twin stem in upper crown.	None.	40+	C2	4.4
114	S	Willow	14	360	1	2	2-S	3	2	3	3	Sm	G	F	Site boundary willow, east side of crown reduced for power line clearance.	None.	40+	C2	4.3
115	S	Willow	14	350	1	2	2-N	3	2	2	3	Sm	G	G	Site boundary willow, twin stem in upper crown.	None.	40+	C2	4.2
116	S	Willow	14	370	1	0	0.5-S	3	4	4	4	Sm	G	G	Site boundary willow, crown bias south.	None.	40+	C2	4.4
117	S	Willow	14	390	1	2	2-N	3	3	4	3	Sm	G	G	Site boundary willow, multi-stem from 2m from narrow unions.	None.	40+	C2	4.7
118	G	Mixed species	5	150	1	0	---	See tree constraints plan				Y	G	G	Tree group in the north-east corner of the site containing recently planted oak, hawthorn, alder, hazel, field maple and willow, many of which are still in shelters.	None.	40+	C1	1.8
119	S	Willow	15	450	1	0	1-W	4	4	3	4	Sm	G	G	Established epicormic growth at base, cankers throughout crown.	None.	40+	C2	5.4
120	S	Willow	15	420	1	0	0-S	4	3	3	4	Sm	G	G	Established epicormic growth at base, multi-stem from 2m from narrow unions.	None.	40+	C2	5.0
121	S	Willow	15	400	1	2	2-N	3	3	3	2	Sm	G	G	Single stem willow with suppressed crown form.	None.	40+	C2	4.8

Tree Number	Single (S) or Group (G)	Tree Name (species)	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Crown Clearance (m)	Height & direction of 1 st branch	Crown spread				Age Class	Physiological Condition	Structural Condition	Condition Notes	Recommendations	Estimated Remaining Life Contribution	BS Category	Root Protection Area (Radius, m)
								North(m)	South(m)	East (m)	West (m)								
122	S	Willow	15	410	1	2	2-S	4	2	3	4	Sm	G	G	Twin stem from 2m from good union.	None.	40+	C2	4.9
123	S	Willow	15	380	1	2	2-N	2	3	3	3	Sm	G	G	Twin stem from 2m from good union.	None.	40+	C2	4.6
124	S	Willow	15	380	1	0	0,5-S	4	3	3	3	Sm	G	G	Established epicormic growth at base, twin stem in upper crown.	None.	40+	C2	4.6
125	G	Mixed species	6	150	1	0	---	See tree constraints plan				Y	G	G	Field boundary tree group containing young field maple, willow, blackthorn, alder, hawthorn, poplar and hazel in close proximity planting, bramble growth throughout group.	None.	40+	C2	1.8
126	G	Mixed species	5	150	1	0	---	See tree constraints plan				Y	G	G	Field boundary tree group containing young field maple, willow, blackthorn, hawthorn, and hazel in close proximity planting, bramble growth throughout group.	None.	40+	C2	1.8
127	S	Willow	14	360	1	2	2-W	3	2	3	3	Y	G	G	Willow in field boundary tree group, multi-stem from 2m from narrow unions.	None.	40+	C2	4.3
128	G	Mixed species	5	200	1	0	---	See tree constraints plan				Y	G	G	Field boundary tree group in close proximity planting including willow, alder, hawthorn, field maple and hazel.	None.	40+	C2	2.4
129	S	Willow	14	440	1	1	1-W	3	3	2	3	Y	G	G	Field boundary willow, multi-stem in upper crown.	None.	40+	C2	5.3
130	S	Willow	16	400	1	2	2-W	4	2	3	4	Sm	G	G	Field boundary willow growing within boundary tree group, twin stem from 2m from fair union.	None.	40+	C2	4.8
131	S	Willow	14	410	1	2	2-N	2	3	3	4	Sm	G	G	Field boundary willow growing within boundary tree group, multi-stem from 1.5m from narrow unions.	None.	40+	C2	4.9
132	S	Willow	16	460	1	2	1-S	5	3	4	4	Sm	G	G	Field boundary willow growing within boundary tree group, triple stem from 2m from narrow unions.	None.	40+	C2	5.5

Tree Number	Single (S) or Group (G)	Tree Name (species)	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Crown Clearance (m)	Height & direction of 1 st branch	Crown spread				Age Class	Physiological Condition	Structural Condition	Condition Notes	Recommendations	Estimated Remaining Life Contribution	BS Category	Root Protection Area (Radius, m)
								North(m)	South(m)	East (m)	West (m)								
133	H	Blackthorn	6	120	1	0	---	See tree constraints plan				M	F	F	Dense unmanaged section of blackthorn hedge on site boundary between a footpath style and power line poles.	None.	20+	C3	1.4
134	H	Hawthorn, blackthorn and elder	6	200	1	0	---	See tree constraints plan				M	G	F	Field boundary hedgerow dominated by hawthorn, hedge density decreases to the west where the hedge is more sporadic, the north face of the hedge has been flailed to form but the hedge is outgrown with no top management.	None.	40+	C3	2.4
135	S	Hawthorn	6	283	8	1	0.5-E	1	3	3	3	M	G	F	Field boundary hawthorn, likely hedgerow remanent, multi-stem from ground level, north side of crown restricted through flailing.	None.	40+	C1	3.4
136	S	Hawthorn	7	390	4	1	1.5W	1	3	3	4	M	G	F	Field boundary hawthorn, likely hedgerow remanent, multi-stem from ground level, north side of crown restricted through flailing.	None.	40+	C1	4.7
137	S	Elder	6	300	4	2	2-W	1	2	2	3	M	F	F	Field boundary elder, sparse crown, prolific bramble growth in crown, prolific arboreal ivy.	None.	<10	C3	3.6
138	G	Hawthorn x 3	5	200	1	0	---	See tree constraints plan				Sm	F	F	Group of 3 x hawthorn on the field boundary likely hedgerow remnants, north side of crowns restricted through flail management.	None.	20+	C1	2.4
139	G	Willow	8	250	1	0	---	See tree constraints plan				Sm	F	F	Small tree group on the site boundary, dominated by willow with smaller hawthorn, multiple wounds on the north side of crowns due to attempted flail management.	None.	20+	C1	3.0
140	H	Mixed species	5	150	1	0	---	See tree constraints plan				Sm	F	F	Field boundary hedgerow dominated by hawthorn also containing elder, goat willow, willow, elm, and field maple. Sporadic gaps towards the west end that have been filled by bramble growth. Gives way to elm and field maple to the west.	None.	20+	C3	1.8

Tree Number	Single (S) or Group (G)	Tree Name (species)	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Crown Clearance (m)	Height & direction of 1 st branch	Crown spread				Age Class	Physiological Condition	Structural Condition	Condition Notes	Recommendations	Estimated Remaining Life Contribution	BS Category	Root Protection Area (Radius, m)
								North(m)	South(m)	East (m)	West (m)								
141	S	Hawthorn	3	70	2	1	1-N	1	1	1	1	Y	G	F	Young self-seeded hawthorn, twin stem from 1m.	None.	40+	C1	0.8
142	G	Goat willow	4	100	1	0	---	See tree constraints plan				Y	F	F	Group containing young self-seeded goat willow stems near site boundary.	None.	40+	C1	1.2

Table Heading	Definition
Tree Number	Tree numbers as they appear in the Tree Schedule and are marked on the Tree Protection Plan drawings.
Single or group	S for a single tree, G for a group of trees and H for a hedge
Species	The common name of the tree
Height (m)	In meters measured with a laser clinometer
Calculated stem diameter (mm)	Calculated diameter of the stem(s) measured in millimetres at 1.5 meters from ground level
Number of stems	Indicates the number of stems measured to inform the Root Protection Area
Crown clearance (m)	Height in metres of crown clearance above adjacent ground level
Crown spread (m)	The spread of the crown measured in metres, taken at the four cardinal points from the trunk
Age class	(Np) Newly planted, (Y) Young, (SM) Semi-Mature, (EM) Early mature, (M) Mature, (A) Ancient or (V) Veteran
Physiological condition	Good – tree has good health and vitality. Fair- tree has minor health and vitality problems. Poor- tree has low vitality and significant health problems. Dead- dead tree.
Structural condition	G-good P- poor F- Fair D-dead
Condition notes	Specific notes relating to the condition of the tree
Recommendations	Recommendations for tree surgery based on any physical defects found or for further investigation of defects that require a more detailed assessment
Estimated remaining contribution	In years <10, 10+, 20+ or 40+
RPA (Root Protection Area) Radius (m):	The radius of the area in square metres that will need to be protected during construction with a protective fence and/or load bearing surface
Category grading Category	Category A: Trees of high quality with an estimated remaining life expectancy of at least 40 years Category B: Trees of moderate quality with an estimated remaining life expectancy of at least 20 years Category C: Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter <150mm Category U: Trees in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years
TREE SURVEY SCHEDULE KEY	

Appendix D: Tree survey methodology

The tree survey

A baseline tree survey is carried out by a qualified arboriculturalist, from ground level, in accordance with the methodology set out in *BS5837:2012 Trees in relation to design, demolition and construction – Recommendations*.

The results of the tree survey are used to establish material constraints arising from existing trees and is intended to be used (along with any other relevant baseline data) to inform feasibility studies and design options. For this reason, the tree survey should be completed and made available to the design team independently of any specific proposals for the development of a site.

The tree survey will include all individual trees, tree groups, woodlands and hedges within influencing distance of the proposed development site. Trees will ordinarily be recorded as individuals but may be recorded as groups if there is no need to differentiate between the trees in the group.

The quality of each tree or group of trees is recorded by allocating it to one of four categories along with a sub-category in accordance with the *BS5837:2012* Cascade chart for tree quality assessment. A category rating of either A, B, C or U is allocated based on the condition of a tree or group of trees in its/their current surroundings. No consideration is given to any specific development proposal when allocating category ratings, category definitions are detailed below:

Category	Criteria
A	<i>Trees or groups which have high quality and value, are in good structural and physiological condition and are expected to have a useful life expectancy of at least another 40 years- indicated in green on the associated plans</i>
B	<i>Trees or groups which would be considered as category A trees but which are of lower value, poorer structural condition, or which are expected to have a useful life expectancy of a minimum of 20 years- indicated in blue on the associated plans</i>
C	<i>Trees or groups which are of low quality and value, trees currently in adequate condition to remain until new planting is established or are young trees with a stem diameter less than 150mm. Category C trees are expected to have a life expectancy of a minimum of 10 years- indicated in grey on the associated plans</i>
U	<i>Trees or groups in such a condition that any existing value would be lost within ten years and which should, in the current context, be removed for reasons of sound arboricultural management- indicated in red on associated plans</i>

BS5837:2012 Tree categorisation criteria

Sub categories are awarded in accordance with the following criteria:

Sub category	Inclusion criteria
1	<i>Trees with arboricultural value</i>
2	<i>Trees with landscape value</i>
3	<i>Trees with cultural or conservation (ecological) value</i>

BS5837:2012 Tree sub-category criteria

Data for all trees, groups and hedges within influencing distance of the proposed development site is recorded in a tree survey schedule in accordance with *BS5837: 2012*. Trees are not physically tagged (unless we are instructed to do so) but are assigned individual numbers that are used to identify the tree, tree group, woodland or hedgerow throughout the report, within the Tree Survey Schedule and on the associated plans. The following information is collected for each tree in the survey:

Tree or group number; Single or group category; Common name of species; Height in metres; Number of stems; Stem diameter; Clearance of crown from ground level in metres; Crown spread in cardinal directions; Age class; Physiological condition; Structural condition; Estimated remaining contribution in years; Preliminary management recommendations; Tree categorisation; Radius in metres of the **Root Protection Area (RPA)**.

All measurements are taken using a stem diameter measuring tape, laser clinometer and laser distance measuring device. Where site constraints prevent the use of a measuring device the measurement is estimated and is suffixed with a '#' symbol in the tree survey schedule.

Root protection areas

Below ground constraints or Root Protection Areas (**RPAs**) for all trees included in the site survey are calculated in accordance with *BS5837:2012 4.6.1*. The RPA is a layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure should be treated as a priority, the RPA does not represent the entire root system of a tree.

The RPAs are plotted onto the associated plans as a circle centred on the base of each tree stem with a radius of 12 times the trees stem diameter measured at 1.5 metres above ground level. For tree groups the largest stem diameter in the group is used to set the RPA.

If deemed appropriate by the arboricultural surveyor the individual stem diameters of trees within a group may be taken in order to set an accurate group RPA boundary whilst still recording all trees within the group as a single group record.

BS5837:2012 4.6.2 requires that where pre-existing site conditions or other factors indicate that rooting has occurred asymmetrically the RPA should be modified to produce a polygon of an equivalent area. Any trees on site identified as requiring a modification to their RPA are indicated within the AIA.