

Arboricultural Method Statement

For a development works on

Land West of Pagham Road, Pagham



On behalf of

Pagham Homes

Inspected and prepared by

Nick Baxter BSc(Hons) TechArborA
Arboricultural Consultant

17th November 2021

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1) INTRODUCTION

I have previously surveyed the trees at this site in August 2016 & September 2017, I recently undertook another site visit in July 2021. Outline planning for a mixed use development was granted in 2018 (ref P/140/16/OUT). This report details which trees will need to be removed and how retained trees will be protected during construction for Phase A and B.

This report has been made to support a reserved matters submission pursuant to outline planning permission (P/140/16/OUT). Specifically, in order to discharge Condition 9 of the outline planning permission:

“Prior to the commencement of each phase of the development an Arboricultural Method Statement and Tree Protection Plan shall be submitted for that phase to and approved in writing by the Local Planning Authority and the development shall be undertaken in strict accordance with the details so approved.”

The layout of this development near the retained trees is largely identical to the layout already submitted within the Arboricultural Method Statement dated 4.11.21. As a result, this report outlines the same information as the other reserved matters application (Land South of Summer Lane and West of Pagham Road, Pagham).

Some of the roadside trees are protected by a tree preservation order (Arun District Council ref. TPO/P/3/19), the protected trees are highlighted grey in the tree schedule at the rear of this document.

Project arboriculturist: Nick Baxter, Tel 07415 890038; nick@boskytrees.co.uk

Site manager: TBC

The site manager must be provided with a copy of this document and a copy should be available on-site at all times. **It is the site manager's responsibility to pass on the information in this document to all construction staff and site contractors.**

This method statement provides details of how planned operations near trees will be carried out. However, arboricultural supervision will be required if any unforeseen construction activity is to take place within or adjacent to the root protection area (RPA) of any of the retained trees at the site (the RPAs are indicated on the tree removal plan). This supervision must be carried out by a suitably qualified arboriculturist. It is recommended that the project arboriculturist and the local authority's tree officer are informed of necessary works near trees as soon as they become apparent.

2) TREE REMOVALS

Nine trees (T401, T402, T415, T416, T417, T423, T470, T471 & T481), five groups of trees (G3–G6 & G14) and one section of one hedge (H3) have been agreed for removal for the highways infrastructure. These removals are shown on the tree removal plan (TR-1 rev.B) dated 11.10.17 within planning ref. P/140/16/OUT.

In addition to the trees that have already been agreed for removal, one B-grade tree (T14), two C-grade trees (T15 & T16) and one C-grade tree-group (G17) will also need to be removed. These additional removals will enable new parking bays and a footpath to be constructed in the north-western corner of the site.

All of these tree removals are detailed in Section 7 of this document.

3) GENERAL METHOD STATEMENT FOR EFFECTIVE TREE PROTECTION

Trees are vulnerable to root damage caused by ground disturbance, direct injury of the trunk or branches, environmental change, pests, and diseases. Construction work often exerts pressures on existing trees, and a tree that has taken many decades to reach maturity can be damaged irreparably in a few minutes by unwitting or negligent actions.

For this project temporary fencing will be used during construction to protect the retained trees at the site. The extent of the tree protection fencing that will be required is shown on the tree protection plan, TPP-1F (this is provided at the rear of the document). **For effective tree protection it is crucial that the protective fencing is installed before any heavy plant machinery is used on the site.** The tree protection fencing must remain in place until the construction works have been completed (unless under arboricultural supervision). The fenced off areas will be construction exclusion zones.

Soil compaction quickly occurs if vehicles pass over an area of soil. Compaction may cause reduced infiltration rates of water, poor drainage, reduced availability of water, and reduced air and oxygen supply to roots. This leads to reduced root growth and as a result the health of the tree is impacted. Therefore, to ensure that soil compaction is avoided, it is very important that no vehicles enter the fenced-off areas during construction operations.

All construction staff should be made aware of the following restrictions that apply to the construction exclusion zones:

1. No excavation or raising of soil levels is permitted within the construction exclusion zones without written permission from the project arboriculturist.
2. Site offices and staff welfare facilities must be located outside of the construction exclusion zones unless agreed with the local authority's arboricultural officer.
3. No materials of any kind are to be stored within the construction exclusion zone.
4. No utility trenches are to be routed through a construction exclusion zone without written permission from the local authority's arboricultural officer.
5. Care must be taken when planning site operations to ensure that wide or tall loads, or plant with booms, jibs and counterweights can operate without coming into contact with retained trees. Branches may be tied back so that they are out of the way if necessary.
6. Potential contaminants such as fuel, oils and chemicals must be stored on an impervious base within a bund able to contain at least 110% of the volume stored. Provision must also be made for any spillage or run off to be contained away from the protected area.
7. Cement and concrete mixing must take place at least 10m from any trees, over a suitable hard surface to prevent soil contamination from spillage or washing out.
8. Fires should be avoided, however if permitted by the site manager, they must not be lit in a position where heat could affect foliage or branches, (At least 15m from the base of a tree would normally be sufficient).

4) SPECIFICATION FOR TREE PROTECTION FENCING

The extent of the tree protection fencing that will be required is shown on the tree protection plan, TPP-1F (this is provided in Section 6). **For effective tree protection it is crucial that the protective fencing is installed before any heavy plant machinery is used on the site.** The tree protection fencing must remain in place until the construction works have been completed (unless under arboricultural supervision). The fenced off areas will be construction exclusion zones.

Most planning permission notices include a condition for tree protection that requires proof to be provided to demonstrate that the tree protection fencing has been put up properly and in accordance with the tree protection plan. This can be done by installing the fencing and informing the council two weeks in advance of starting construction, or by employing an arboricultural consultant to check the fencing and produce a record of the inspection. Alternatively, photos could be taken as evidence that the fencing has been put up before any other works have started.

Fencing (or other forms of barrier) must be fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees. In most cases fencing should consist of a scaffold framework comprising a vertical and horizontal framework, well braced to resist impacts, with vertical tubes spaced at a maximum interval of 3m. A specification for fencing suitable for most construction sites is provided in Figure 2 of BS5837 but in some situations more light-weight stabilising systems for fencing may be sufficient, this is detailed in Figure 3a and 3b in BS5837 (both of these diagrams are reproduced on the next page). Alternative methods of barrier could be appropriate for tree protection provided that they are sufficient to exclude construction activity; but any such methods must first be agreed by the Local Authority's arboricultural officer.

Once the barriers have been erected the areas of land within the construction exclusion zone should be regarded as sacrosanct, and should not be removed or altered without prior consultation with the project arboriculturist and, where necessary, approval from the local planning authority. All-weather notices should be attached to the fencing with words such as: 'Construction Exclusion Zone - No Access'. Throughout the construction period attention should be paid to ensure that barriers remain rigid and complete.

Arboricultural supervision will be required whenever construction and development activity is to take place within a construction exclusion zone. This supervision must be carried out by a suitably qualified arboriculturist.

Figure 2 Default specification for protective barrier

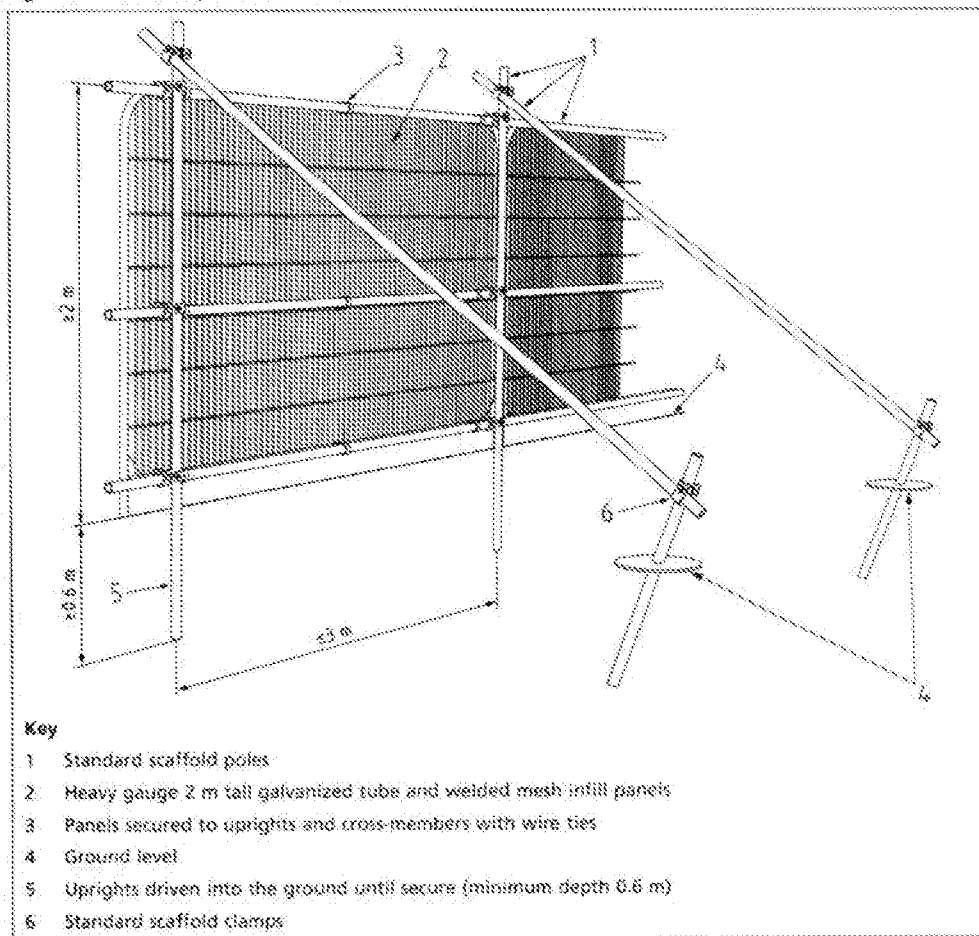
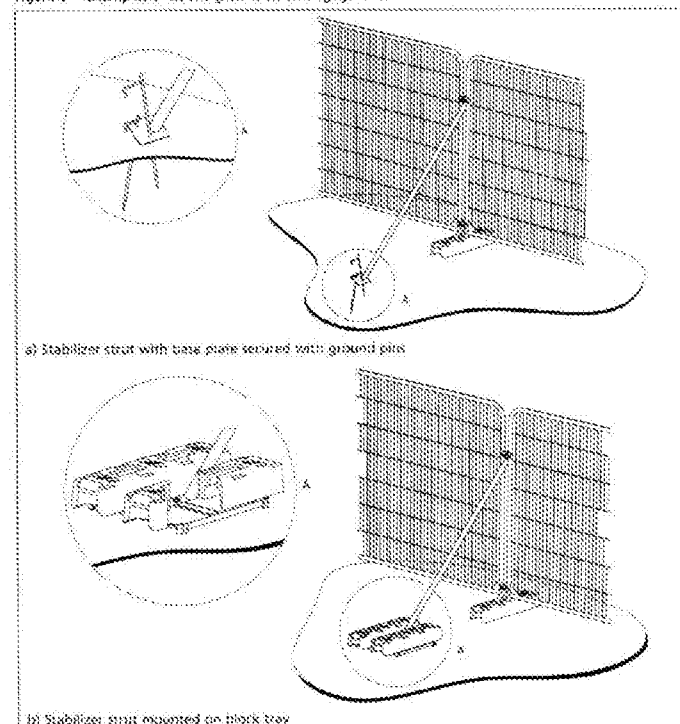


Figure 3 Examples of above-ground stabilizing systems

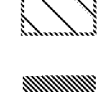
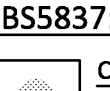






Key

- Root Protection Area
- Canopy spread
- Trunk position
- Tree number

-  Tree group canopy outline
-  Hedge line
-  Trees scheduled for removal
-  Tree group canopy outline
-  Hedge line

B55837:2012 - Tree Category

-  **Category A Trees**
High quality and value
At least 40 years life-expectancy
-  **Category B Trees**
Moderate quality and value
At least 20 years life-expectancy
-  **Category C Trees**
Moderate quality and value
At least 10 years life-expectancy
-  **Category U Trees**
Poor quality and value
Less than 10 years life expectancy

BOSKYTREES

www.boskytrees.co.uk
info@boskytrees.co.uk
Tel: 01373 832778

Project Name:

Land West of Pagham Lane
Pagham

Drawing Title:

Tree Removal Plan

Drawing Number:	TR-1	Revision:	F
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Client:

Pagham Homes

Agent:

Date:

17-11-2021

Scale:

1:1800 @ A0

AREA DISTRICT COUNCIL PLANNING DEPT



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N

Tree protection fencing

Canopy spread

Trunk position

Tree number

Tree group canopy outline

Hedge line

1.0m

Measurement from trunk to the protection fence

Site boundary

BOSKYTREES

info@boskytrees.co.uk
Tel: 01373 832778

Project Name:

Land West of Pagham Road
Pagham

Drawing Title:

Tree Protection Plan

Drawing Number:

TPP-1

Revision:

F

Client:

Pagham Homes

Agent:

Date:

17-11-2021

Scale:

1:1800 @ A0

Tree Schedule

Surveyor: Nick Baxter



Site: Land West of Pagham Road, Pagham

Date of Survey: 6th July 2021

Tree Number	Tree Species	Height (m)	Number of Stems	Stem Ø (cm)	N - Radius (m)	S - Radius (m)	E - Radius (m)	W - Radius (m)	1st Branch (m)	Age Class	Overall Health	ULE (Years)	Tree Structural Condition & Site Notes	Recommended Management	Category
T14	Oak	11	1	38	4.5	4.5	4.5	4.5	3	M	G	40+	Slight trunk lean to the north. Arboreal ivy. No obvious significant defects. Ditch immediately to the north.	Fell and remove the stump.	B1
T15	Field maple	7	MS	64	3	4	4	3	2	M	G	40+	Multi stemmed from base. Crown flailed on the east side. Arboreal ivy. No obvious significant defects. Ditch immediately to the west. Ploughed field to the east.	Fell and remove the stump.	C2
T16	Field maple	7	MS	64	3	4	4	3	2	M	G	40+	Multi stemmed from base. Crown flailed on the east side. Arboreal ivy. No obvious significant defects. Ditch immediately to the west. Ploughed field to the east.	Fell and remove the stump.	C2
T401	Ash	10	1	53	5	3	5	5	3	M	F	20+	Minor crown dieback. Past crown lift over road. A ditch lies directly north of the tree.	Fell as already agreed in accordance with planning ref P/140/16/OUT.	C2
T402	Ash	10	1	64	3	4	5	5	2.5	M	F	20+	Minor crown dieback. Past crown lift over road.	Fell as already agreed in accordance with planning ref P/140/16/OUT.	C2
T415	Sycamore	9	1	30	3.5	3.5	4	2.5	3.5	M	G	40+	Past crown lift. Upper crown leans to the east. No obvious significant defects. Ditch immediately to the west.	Fell as already agreed in accordance with planning ref P/140/16/OUT.	C2
T416	Sycamore	12	1	45	6.5	7	6	5	4	M	G	40+	Past crown lift. Upper crown leans to the east. No obvious significant defects. Ditch immediately to the west.	Fell as already agreed in accordance with planning ref P/140/16/OUT.	B2
T417	Sycamore	8	1	38	4	4	5	5	4	M	G	40+	Past crown lift over the field. A ploughed field lies 2m to the west and a ditch to the east.	Fell as already agreed in accordance with planning ref P/140/16/OUT.	B2
T418	Oak	8	1	20	2	3	4	4	3	EM	F	40+	Suppressed crown. A ploughed field lies 2m to the west and a ditch to the east.	No action required at present.	C2
T419	Oak	7	2	23	3	2	3	3	3	EM	F	40+	Suppressed crown. A ploughed field lies 2m to the west and a ditch to the east.	No action required at present.	C2

A key explaining each category is provided at the rear of the schedule

Tree Number	Tree Species	Height (m)	Number of Stems	Stem Ø (cm)	N - Radius (m)	S - Radius (m)	E - Radius (m)	W - Radius (m)	1st Branch (m)	Age Class	Overall Health	ULE (Years)	Tree Structural Condition & Site Notes	Recommended Management	Category
T420	Oak	9	1	63	6	4	6	6	4	M	G	40+	Arboreal ivy. No obvious significant defects. A ploughed field lies 2m to the west and a ditch to the east.	No action required at present.	B2
T421	Sycamore	6	1	27	2.5	2	3	3	3	EM	P	10+	Dieback in lower crown from farm machinery damage. Arboreal ivy. A ploughed field lies 2m to the west and a ditch to the east.	No action required at present.	U
T422	Sycamore	6	1	18	2	2	2	2	3	EM	F	20+	Dieback in lower crown from farm machinery damage. A ploughed field lies 2m to the west and a ditch to the east.	No action required at present.	C2
T423	Field maple	5	1	20	2	2	2	2	3	EM	F	20+	Dieback in lower crown from farm machinery damage. A ploughed field lies 2m to the west and a ditch to the east.	Fell as already agreed in accordance with planning ref P/140/16/OUT.	C2
T433	Field maple	5	3	20	3	2	2	2	4	EM	G	40+	Dieback in lower crown from farm machinery damage. A ploughed field lies 1m to the west and a ditch to the east. Protected by a TPO (TPO/P/3/19).	No action required at present.	C2
T434	Oak	8	1	35	4.5	2	5	4	4	M	G	40+	Minor damage to lower branches on west side from farm machinery. A ploughed field lies 1m to the west and a ditch to the east. Protected by a TPO (TPO/P/3/19).	No action required at present.	B2
T435	Sycamore	7	1	37	2	3	4	3	4	M	F	20+	Crown dieback. Minor damage to lower branches on west side from farm machinery. A ploughed field lies 1m to the west and a ditch to the east. Protected by a TPO (TPO/P/3/19).	No action required at present.	C2
T436	Oak	6	1	19	2	2	2	2	3	EM	G	40+	No obvious significant defects. A ploughed field lies 1m to the west and a ditch to the east. Protected by a TPO (TPO/P/3/19).	No action required at present.	C1
T437	Goat willow	5	3	31	4	4	4	4	4	M	G	40+	Multi stemmed from base. Damage to lower crown on west side. A ploughed field lies 1m to the west and a ditch to the east. Protected by a TPO (TPO/P/3/19).	No action required at present.	C2
T438	Oak	5	2	20	2	2	3	0.5	2	EM	G	40+	Suppressed crown. A ploughed field lies 1m to the west and a ditch to the east. Protected by a TPO (TPO/P/3/19).	No action required at present.	C2
T439	Oak	9	1	45	5.5	3	6	5	4	M	G	40+	Crown extends from 2m. Minor damage to lower branches on west side from farm machinery. No obvious significant defects. A ploughed field lies 1m to the west and a ditch to the east. Protected by a TPO (TPO/P/3/19).	No action required at present.	B2

A key explaining each category is provided at the rear of the schedule

Tree Number	Tree Species	Height (m)	Number of Stems	Stem Ø (cm)	N - Radius (m)	S - Radius (m)	E - Radius (m)	W - Radius (m)	1st Branch (m)	Age Class	Overall Health	ULE (Years)	Tree Structural Condition & Site Notes	Recommended Management	Category
T440	Oak	8	2	25	2	3	5	4	4	EM	F	40+	Minor crown dieback. A ploughed field lies 1m to the west and a ditch to the east. Protected by a TPO (TPO/P/3/19).	No action required at present.	C2
T441	Oak	8	1	32	4	4	5	5	3	M	G	40+	Minor crown dieback. A ploughed field lies 1m to the west and a ditch to the east. Protected by a TPO (TPO/P/3/19).	No action required at present.	B2
T442	Ash	8	2	27	4.5	4.5	4.5	4.5	3	M	G	40+	Minor damage to lower branches on west side from farm machinery. A ploughed field lies 1m to the west and a ditch to the east. Protected by a TPO (TPO/P/3/19).	No action required at present.	B2
T443	Ash	7	1	44	4.5	4.5	4.5	4.5	3	M	G	40+	Recent branch failure at 3m. Past crown lift. A ploughed field lies 1m to the west and a ditch to the east. Protected by a TPO (TPO/P/3/19).	No action required at present.	B2
T444	Field maple	5	1	25	4.5	1	4	1	2	M	G	40+	Three stems from 2m. Windswept crown leans to the north. No obvious significant defects. Ditch immediately to the east.	No action required at present.	C2
T445	Sycamore	8	3	26	3.5	3.5	3.5	3.5	3	M	G	40+	Crown lift on west side over field. No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	C2
T446	Sycamore	8	2	27	3.5	3.5	3.5	3.5	3	M	F	20+	Crown lift on west side over field. No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	C2
T447	Sycamore	10	1	48	5	5	5	4	3	M	G	40+	Roadside tree. Three stems from 2m. Past crown lift on east side over road. No obvious significant defects. Ditch immediately to the west.	No action required at present.	B2
T448	Sycamore	12	1	48	6.5	7	6	5	4	M	G	40+	Roadside tree. Three stems from 2m. Past crown lift on east side over road. No obvious significant defects. Ditch immediately to the west.	No action required at present.	B2
T449	Oak	9	1	45	4	4	5	2	4	M	G	40+	Arboreal ivy. No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east. Tree not tagged.	No action required at present.	B2
T450	Oak	7	1	28	2	1	4	2	4	EM	P	<10	Crown dieback. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	U
T451	Ash	6	1	13	1	1	1	1	3	SM	F	40+	Small self sown tree. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	C1

A key explaining each category is provided at the rear of the schedule

Tree Number	Tree Species	Height (m)	Number of Stems	Stem Ø (cm)	N - Radius (m)	S - Radius (m)	E - Radius (m)	W - Radius (m)	1st Branch (m)	Age Class	Overall Health	ULE (Years)	Tree Structural Condition & Site Notes	Recommended Management	Category
T452	Oak	6	1	27	3	2	4	3	3	EM	F	20+	Crown extends east. Minor crown dieback. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	C2
T453	Ash	8	1	25	3	0.5	3	1	3	M	F	<10	Major crown dieback as a result of Chalara ash dieback. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	U
T454	Oak	8	1	45	5	5	6	4	4	M	G	40+	Arboreal ivy. No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	B2
T455	Oak	5	1	25	3	3	5	4	3	EM	G	40+	Minor damage to lower branches on west side from farm machinery. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	C2
T456	Ash	5	1	32	4	2	4	2	3	M	G	40+	Low crown. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	C2
T457	Ash	9	1	28	4	2	4	2	4	EM	F	10+	Crown dieback. Two stems extend from 2m. Crown extends north away from larger companion. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	C2
T458	Ash	11	1	45	4	2	5	4	4	M	G	40+	Arboreal ivy. No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	B2
T459	Oak	9	1	48	3	3	4	5	3	M	G	40+	Arboreal ivy. No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	B2
T460	Sycamore	8	1	55	3	5	5	5	3	M	G	40+	Arboreal ivy. No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	B2
T461	Sycamore	16	1	48	6.5	6.5	5	6	3.5	M	G	40+	Slight crown lean to the east. No obvious significant defects. Prolific arboreal ivy. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	B2
T462	Cherry	5	2	23	4.5	4.5	4.5	4.5	3	M	P	<10	Two stems from base. Major crown dieback. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	U
T463	Goat willow	4	MS	29	4	2	3	2	1	EM	G	40+	Multi stemmed from base. Damage to lower crown on west side. Situated on the edge of the ditch.	No action required at present.	C1
T464	Oak	5	1	29	3	3	3	3	2	EM	G	40+	Arboreal ivy. No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	C2
T465	Goat willow	6	MS	29	4	1	3	3	2	M	G	40+	Multi stemmed from base. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	C2

A key explaining each category is provided at the rear of the schedule

Tree Number	Tree Species	Height (m)	Number of Stems	Stem Ø (cm)	N - Radius (m)	S - Radius (m)	E - Radius (m)	W - Radius (m)	1st Branch (m)	Age Class	Overall Health	ULE (Years)	Tree Structural Condition & Site Notes	Recommended Management	Category
T466	Goat willow	7	MS	29	4	1	3	3	2	M	G	40+	Multi stemmed from base. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	C2
T467	Sycamore	7	MS	40	4	4	4	4	3	M	G	40+	Multi stemmed from base. Arboreal ivy. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	B2
T468	Sycamore	8	1	35	5	5	5	5	3	M	P	<10	Major crown dieback. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	U
T469	Ash	7	1	28	4	4	4	4	3	M	G	40+	No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	B2
T470	Ash	7	2	25	3	3	3	3	3	EM	G	40+	Two stems from base. Arboreal ivy. Ploughed field to the west. Large ditch immediately to the east.	Fell as already agreed in accordance with planning ref P/140/16/OUT.	C2
T471	Ash	7	1	26	3	3	3	3	3	EM	G	40+	Arboreal ivy. No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	Fell as already agreed in accordance with planning ref P/140/16/OUT.	C2
T472	Sycamore												This tree has now been removed.		
T473	Whitebeam	7	1	25	3	3	3	3	3	M	G	40+	Arboreal ivy. No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	B1
T474	Goat willow	4	MS	22	2.5	2.5	2.5	2.5	1	EM	G	20+	Multi stemmed from base. Ploughed field to the north. Large ditch immediately to the south	No action required at present.	C2
T479	Oak	9	1	50	4.5	4.5	4.5	4.5	3	M	G	40+	Two stems extend from 3m. Arboreal ivy. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	B2
T480	Field maple	5	2	17	2	2	2	2	2	EM	G	40+	Suppressed crown. Arboreal ivy. No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	C2
T481	Goat willow	4	MS	45	3	3	3	3	2	M	G	40+	Multi stemmed from base. Ploughed field to the west. Large ditch immediately to the east.	Fell as already agreed in accordance with planning ref P/140/16/OUT.	C2
T482	Ash	7	1	55	4	4	4	4	4	M	G	40+	Symmetrical crown. Arboreal ivy. Tree not tagged. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	B2
T483	Whitebeam	4	1	18	3	3	2	2	3	M	G	40+	Past machinery damage to lower crown. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	C1

A key explaining each category is provided at the rear of the schedule

Tree Number	Tree Species	Height (m)	Number of Stems	Stem Ø (cm)	N - Radius (m)	S - Radius (m)	E - Radius (m)	W - Radius (m)	1st Branch (m)	Age Class	Overall Health	ULE (Years)	Tree Structural Condition & Site Notes	Recommended Management	Category
T484	Oak	3	1	15	2	2	2	2	2	EM	G	40+	No obvious significant defects. Ploughed field 3m to the west. Large ditch immediately to the east.	No action required at present.	C2
T485	Hawthorn	4	MS	15	2	2	2	2	2	EM	G	40+	No obvious significant defects.	No action required at present.	C2
T486	Field maple	5	2	21	3	3	3	3	3	EM	G	40+	Two stems from base. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	C2
T487	Field maple	5	3	25	3	3	3	3	3	EM	G	40+	No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	C2
T488	Field maple	5	3	31	3.5	3.5	3.5	3.5	3	M	G	40+	Minor damage to lower branches on west side from farm machinery. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	B1
T489	Elm	5	1	9	1	1	1	1	2	EM	G	<10	This tree will soon reach the age of getting Dutch elm disease. Tree not tagged.	No action required at present.	U
T490	Elm	7	1	12	1	1	1	1	2	EM	D	<10	Standing dead tree. Tree not tagged.	No action required at present.	U
T491	Whitebeam	5	1	18	1	2	2	2	3	M	P	<10	Major crown dieback. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	U
T492	Ash	7	1	24	3	3	3	3	4	M	G	40+	No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	B2
T493	Whitebeam	5	1	21	1.5	1.5	1.5	1.5	3	M	G	40+	Suppressed crown. Recent branch torn in lower crown. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	C2
T494	Whitebeam	5	2	26	3	3	3	3	3	M	G	40+	Two stems from base. No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	B2
T495	Elm	6	1	10	1	1	1	1	2	EM	G	<10	This tree will soon reach the age of getting Dutch elm disease. Tree not tagged.	No action required at present.	U
T496	Elm	6	1	10	1	1	1	1	2	EM	G	<10	This tree will soon reach the age of getting Dutch elm disease. Tree not tagged.	No action required at present.	U
T497	Elm	6	1	10	1	1	1	1	2	EM	G	<10	This tree will soon reach the age of getting Dutch elm disease. Tree not tagged.	No action required at present.	U

A key explaining each category is provided at the rear of the schedule

Tree Number	Tree Species	Height (m)	Number of Stems	Stem Ø (cm)	N - Radius (m)	S - Radius (m)	E - Radius (m)	W - Radius (m)	1st Branch (m)	Age Class	Overall Health	ULE (Years)	Tree Structural Condition & Site Notes	Recommended Management	Category
T498	Elm	6	1	10	1	1	1	1	2	EM	G	<10	This tree will soon reach the age of getting Dutch elm disease. Tree not tagged.	No action required at present.	U
T499	Ash	8	1	38	5	5	5	5	3	M	G	40+	Arboreal ivy. No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	B2
T500	Field maple	8	1	48	5	5	5	5	3	M	G	40+	No obvious significant defects. Ploughed field to the west. Large ditch immediately to the east.	No action required at present.	B2

A key explaining each category is provided at the rear of the schedule

Group Schedule

Site: Land West of Pagham Road, Pagham

Surveyor: Nick Baxter

Date of Survey: 6th July 2021



Group Number	Tree Species	Number in Group	Height (m)	Number of stems	Stem Ø (cm)	N - Radius (m)	S - Radius (m)	E - Radius (m)	W - Radius (m)	1st Branch	Age Class	Overall Health	ULE (Years)	Tree Structural Condition & Site Notes	Recommended Management	Category
G2	Leyland cypress and field maple	3	11	1	25	4	4	5	4	2	M	G	40+	Arboreal ivy. Multi stemmed from 2m. No obvious significant defects. Large ditch immediately to the east.	No action required at present.	C2
G3	Field maple and ash	7	9	1	35	4	4	4	4	3	M	G	40+	These have all been crown lifted over both the road on the field. No obvious significant defects. Tag no's. 403-410.	Remove these trees as already agreed in accordance with planning ref P/140/16/OUT.	B2
G4	Sycamore	4	9	1	35	4	4	4	4	3	M	G	40+	These have all been crown lifted over the road. No obvious significant defects. A ditch lies to the east of these trees. Tag no's. 411-414.	Remove these trees as already agreed in accordance with planning ref P/140/16/OUT.	B2
G5	Oak and sycamore	8	10	1	30	2	2	4	4	3	M	G	40+	These have all been crown lifted over the field. No obvious significant defects. A ditch lies to the east of these trees and a ploughed field 1-2m to the west. Tag no's. 424-432.	Remove these trees as already agreed in accordance with planning ref P/140/16/OUT.	B2
G6	Oak	4	8	1	30	4	4	4	4	3	M	G	40+	Arboreal ivy. No obvious significant defects. A ditch lies to the west of these trees and a ploughed field 1-2m to the east. Tag no's. 475-478.	Remove these trees as already agreed in accordance with planning ref P/140/16/OUT.	B2
G11	Elm	5	9	1	12	1.5	1.5	1.5	1.5	2	EM	G	<10	This group will soon reach the age of getting Dutch elms disease. Ditch immediately to the north.	No action required at present.	U
G12	Ash and oak	5	14	1	25	4	4	4	4	5	M	G	40+	Arboreal ivy. No obvious significant defects. One oak within this tree-group is protected by a TPO. Ditch immediately to the north.	No action required at present.	B2
G13	Elm	5	3	1	9	1	1	1	1	1	SM	F	<10	This group will soon reach the age of getting Dutch elms disease. Ditch immediately to the east.	No action required at present.	U
G14	Goat willow	4	6	MS	30	5	7	7	2.5	2	M	G	20+	Multi stemmed from base. Recent pruning work on the west side for clearance of farm track. Growing on the south side of a ditch.	Remove these trees as already agreed in accordance with planning ref P/140/16/OUT.	C2

A key explaining each category is provided at the rear of the schedule

Group Number	Tree Species	Number in Group	Height (m)	Number of stems	Stem Ø (cm)	N - Radius (m)	S - Radius (m)	E - Radius (m)	W - Radius (m)	1st Branch	Age Class	Overall Health	ULE (Years)	Tree Structural Condition & Site Notes	Recommended Management	Category
G15	Blackthorn	20	4	1	9	2	2	2	2	2	M	G	20+	Blackthorn scrub. Brambles growing within group.	No action required at present.	C2
G16	Hybrid black poplar	40	22	1	45	4	4	8.5	8.5	4	M	G	40+	A linear planting of trees acting as a screen and shelterbelt for the buildings behind. Prominent trees in the landscape. Arboreal ivy. Ploughed field to the east of this group.	No action required at present.	B2
G17	Willow	7	5	1	15	3	3	3	3	1	M	G	40+	Dense area of willow scrub.	Remove.	C2
G18	Field maple	2	7	1	25	4	4	4	4	3	M	F	20+	No obvious significant defects. Growing to the west side of a farm track and ditch.	No action required at present.	C2

A key explaining each category is provided at the rear of the schedule

Hedge Schedule

Site: Land West of Pagham Road, Pagham

Surveyor: Nick Baxter

Date of Survey: 6th July 2021



Hedge Number	Tree Species	Height (m)	No. of Stems	Stem Ø (cm)	Width (m)	Length (m)	Age Class	Overall Health	U/L (Years)	Condition & Notes	Recommended Management	Category
H1	Sycamore and blackthorn	6	MS	10	2	20	EM	G	20+	These appear to be self sown trees that now act as a field boundary hedgerow.	Remove a 4m length from the northern end (as indicated in the tree removal plan, TR-1D). This has already been agreed in accordance with planning ref P/140/16/OUT.	C2
H2	Hawthorn, blackthorn and willow	6	MS	9	2	30	EM	G	20+	This is a field boundary hedgerow. It seems that it has never been managed. Ploughed field to the west of this hedge. Large ditch immediately to the east.	No action required at present.	C2
H3	Hawthorn, blackthorn and willow	4	MS	9	3	135	EM	F	20+	This is a field boundary hedgerow. It seems to be flailed on the west side. Ploughed field to the west of this hedge. Large ditch immediately to the east.	Remove a 52m section of this hedgerow (as indicated in the tree removal plan, TR-1D). This has already been agreed in accordance with planning ref P/140/16/OUT.	C2
H4	Blackthorn and elm	5	MS	10	1.5	15	EM	G	20+	This is a field boundary hedgerow. It seems to be flailed on the west side. Ploughed field to the west of this hedge. Large ditch immediately to the east.	No action required at present.	C2
H5	Blackthorn	2	MS	9	2	5	EM	G	20+	This is a field boundary hedgerow. It seems to be flailed. Ditch immediately to the north.	No action required at present.	C2
H6	Blackthorn and hawthorn	3	MS	10	2	75	M	G	20+	Few gaps. This is a field boundary hedgerow. It seems to be flailed. Ditch immediately to the north.	No action required at present.	C2
H7	Blackthorn	3	MS	10	2	25	M	G	20+	Few gaps. This is a field boundary hedgerow. It seems to be flailed. Ditch immediately to the south.	No action required at present.	C2
H8	Blackthorn and willow	4	MS	10	3	30	M	G	20+	This is a field boundary hedgerow. It seems to be partly flailed. Ditch immediately to the east.	No action required at present.	C2

A key explaining each category can be found at the rear of the schedule.

Tree Schedule - KEY

Tree/Group/Hedge Number

Tree, tree-groups or hedges have been allocated a number for the purpose of this survey. Numbers within the Tree Schedule relate to those marked on the Tree Removal Plan and Tree Protection Plan drawings.

Trees protected by a tree preservation order (TPO) are highlighted by grey colouration in the tree schedule.

Species

Common names are listed.

Number in Group

Number of trees within a group. A group of trees may comprise of more than one species.

Height (m)

All heights are estimated in metres.

Number of Stems

The number of stems is either 1, 2, 3, 4, 5 or MS (multi-stemmed). This feature influences how the area of the recommended root protection area is calculated.

Stem or Combined Diameter (cm)

Single stem diameters are measured at 1.5m with a diameter tape. The combined stem diameters for trees with up to five stems and trees with more than five stems (MS) trees are calculated in accordance with the guidance.

Crown Spread Radius (m)

The crown radius from tree trunk to crown limit identified at the four cardinal points (N, S, E and W) in order to allow presentation of the above ground constraints on the Tree Protection Plan.

Measurements are approximate and recorded to the nearest half metre.

1st Branch (m)

This is a record of the height of the lowest branch. This is useful when planning access routes or considering if pruning will be required to site new features under a tree crown.

Age Class

(Y) Young, (SM) Semi-Mature, (EM) Early-Mature, (M) Mature, (FM) Fully-Mature or (V) Veteran.

Overall Health

An overall assessment of the physiological condition of the tree recorded as (G) Good, (F) Fair, (P) Poor, (D) Dead.

ULE (Years)

Useful Life Expectancy. Anticipated future contribution to amenity, in years.

Tree Structural Condition & Site Notes

Observations on the form of the tree, condition and structural integrity.

Site notes are detailed when relevant to the growth conditions or rooting constraints.

Management Recommendations

Recommended tree surgery works to be carried out prior to construction. Terminology used is based on guidance detailed in BS3998:2010 – Recommendations for tree work¹.

Category

Tree category as defined within BS5837:2012. Categories A (high quality), B (moderate quality) and C (low quality) are trees that should be considered for retention. Category U trees are unsuitable for retention.

¹ British Standards Institution (2010). BS3998 - Recommendations for Tree Work. BSI, London.