

Land South of Barnham Station

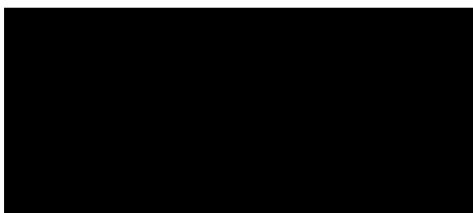
Arboricultural Method Statement

November 2020
10716_AMS.001

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CONTENTS

1. Introduction	1
1.1 Background	1
1.2 Scope	2
1.3 Limitations	2
2. Essential Work	3
2.1 Tree Protection Plan	3
2.2 Tree Removals	3
2.3 Pruning Works	4
2.4 Protective Barriers	4
2.5 Supervised Excavation	6
2.6 Proposed Order of Works	7
2.7 Site Manager's Point of Contact for Arboricultural Input	8
3. Conclusions	8

APPENDICES

Tree Protection Plan	Appendix A
Works Auditing Schedule	Appendix B
Tree Survey Schedule	Appendix C
Tree Protection Barrier Specifications	Appendix D

1 INTRODUCTION

1.1 Background

1.1.1 Aspect Arboriculture are instructed by Gleeson Strategic Land to prepare an Arboricultural Method Statement and Tree Protection Plan (hereafter the AMS and TPP) to inform the proposed residential development of Land South of Barnham Station.

1.1.2 This Arboricultural Method Statement (AMS) and appended Tree Protection Plan (TPP) have been prepared in response to Arun District Council's Local Plan Policy ENV DM4 which requests that new development proposals are accompanied by an Arboricultural Method Statement and Tree Protection Plan.

1.1.1 POLICY ENV DM4: Protection of Trees

'Development will be permitted where it can be demonstrated that trees protected by a Tree Preservation Order(s) (TPO), identified as Ancient Woodland, in a Conservation Area or contributing to local amenity, will not be damaged or destroyed now and as they reach maturity, unless development:

a. Would result in the removal of one or more trees in the interests of good arboricultural practice. This shall be demonstrated by the developer following the advice of a suitably qualified person which shall be guided by BS 5837 (2012). Details of any advice received having regard to BS 5837 (2012) shall be submitted, in writing, as part of a planning application; or

b. Would enhance the survival and growth prospects of other protected trees;

c. The benefits of the proposed development in a particular location outweigh the loss of trees or woodland, especially ancient woodland.

Where planning permission is granted in any of the above instances, conditions shall be used to ensure that, for any trees which are removed as part of a development, at least an equivalent number of a similar species and age (where practical) are planted on the proposed development site. Sufficient space for replacement trees to mature without causing future nuisance or damage shall be provided. The planting of new trees shall form an integral part of the design of any development scheme.

Proper provision must be made for the protection and management of trees or areas of woodland on-site when undertaking development. A management plan shall be provided as part of a planning application in accordance with BS 5837 (2012) in order to ensure that trees are adequately protected during development and appropriately maintained in the future. Conditions for the continued protection of trees on sites shall be included in any planning permission given.

Where there are existing trees on or adjacent to a development site, developers shall be required to provide:

d. Land and tree surveys

e. A tree constraints plan

f. An arboricultural impact assessment to include a tree protection plan and arboricultural method statement

These will ensure that development is planned to take a comprehensive view of tree issues at an early stage in the design process and that development works do not have a negative impact on existing trees.'

1.1.3 It is our understanding that this work will be submitted to, and approved by, Arun District Council (hereafter the Council), prior to the commencement of any construction works occurring on site. Once approved, the safeguarding measures and works should be implemented as specified and maintained to the Council's satisfaction until completion of the development.

1.1.4 The confident protection of retained trees will be achieved through the use of the appended Tree Protection Plan (appendix A) and Works Auditing Schedule (appendix B), alongside other supporting documents included within appendices C and D.

1.2 **Scope**

1.2.1 This work relates to arboriculture therefore reliance should not be given to comments made in respect of other disciplines i.e. civil engineering or construction phasing, without first referencing an appropriate expert.

1.3 **Limitations**

1.3.1 This document has been prepared to inform safeguarding measures during development and should not be interpreted as a report on tree health and safety. Reasonable effort has been made to identify visible defects whilst carrying out the tree survey, however trees are prone to natural failure without warning; no guarantee can be made as to the absolute safety of any of the trees surveyed.

1.3.2 Aspect's opinion of tree condition and structural potential is valid for limited period from the date of survey. Validity is assumed in the absence of inclement weather and no change to the tree's existing context. A copy of the site's tree survey information is provided within appendix C.

2 ESSENTIAL WORK

2.1 Tree Protection Plan

2.1.1 The Tree Protection Plan (TPP) provided in appendix A will be relied upon during the construction of the development. It must be read in conjunction with the entirety of this document.

2.1.2 To prevent avoidable damage occurring to retained trees or erroneous tree loss, a scaled A1 copy of the TPP, accompanied by a copy of this document will be provided to the Site Manager. This will ensure they are able to:

- Clearly identify all retained trees;
- Identify the correct locations for tree protection barriers;
- Identify features of the site that must be prepared/installed under an arboricultural watching brief;
- Request attendance of the Project Arboriculturist on site for site monitoring and to provide advice in case of any emerging issues;
- Demonstrate compliance with the Council's consent for the development by safeguarding trees which are to be retained and enable the Project Arboriculturist to evidence this by completing the Works Auditing Schedule (appendix B).

2.2 Tree Removals

2.2.1 To implement the scheme of development it will be necessary to remove the trees detailed within Table 1 below.

2.2.2 **Table 1.** Net Tree Removals by BS5837 Category.

Category A	Category B	Category C	Category U
None	None	T39 Cherry G14+Δ G15 Apple H3+Δ H5 Beech H6+Δ	None

+ Denotes assemblage of three or more species (refer to appendix C)

Δ Denotes partial removal of tree group or hedge

2.2.3 Trees to be removed will be spray marked with a red flash by the project arboriculturist. The marking out of partial tree group or hedge clearances will be done by the Project Arboriculturist with the assistance of a site engineer. This will ensure site features can be clearly identified on the ground and ensure the correct judgement made as to the extent of

clearance required. The presence of the appointed arboricultural contractor is also recommended during this process to safeguard against erroneous felling.

2.2.4 Felling works should be timed to avoid the main nesting season for birds between 1st March and 31st August. If scheduled within this period an ecologist must be present to advise on any necessary protective measures, and to confirm that tree works are not likely to cause disturbance to nesting birds.

2.2.5 This work will be undertaken in accordance with the principles within BS3998:2010 by a qualified and competent contractor to ensure cuts are performed correctly and positioned so as to avoid damage/harm to surrounding retained trees.

2.3 Pruning Works

2.3.1 To implement the scheme of development, it will be necessary to carry out the pruning work detailed within Table 2 below.

2.3.2 **Table 2.** Pruning Work.

Tree	Pruning Work
H6+	- Selectively prune the hedgerow's lateral growth by c.1-1.5m to restore a managed edge following clearance work
G14+	- Selectively prune components by up to c.1-2m to rebalance crowns following clearance work

+ Denotes assemblage of three or more species (refer to appendix C)

2.3.3 In addition to the works detailed within Table 2, it is recommended that dead branches are removed from the canopies of retained trees. Although not required to accommodate the development, this will help mitigate the risk of future tree related hazards emerging.

2.3.4 The pruning work must be undertaken in accordance with section 7.3 (for the removal of deadwood) and section 7.8 (for selective pruning) of BS3998:2010. A qualified and competent contractor should be employed to ensure that cuts are performed correctly and positioned so as to avoid future structural defects or physiological issues, facilitate growth and maintain aesthetic value.

2.3.5 This work should be timed to avoid the main nesting season for birds between 1st March and 31st August. If scheduled within this period an ecologist must be present to advise on any necessary protective measures, and to confirm that tree works are not likely to cause disturbance to nesting birds.

2.4 Protective Barriers

2.4.1 Tree protection barriers are required to safeguard retained trees from damage during construction works. Protective barriers should be installed before construction works commence and consist of the default BS5837:2012 barrier specification (refer to Figure 1

below). The location for protective barriers has been informed by retained trees' canopy extents and root protection areas (RPA). The location for protective barriers is illustrated with a solid dark blue line within the Tree Protection Plan (appendix A).

2.4.2 Figure 1. Protective Barrier Specification



2.4.3 Where development is not within close proximity to retained trees it is considered appropriate for a lighter secondary specification barrier to be utilised. The lighter barrier specification omits the diagonal bracing and includes heras panels pinned on rubber feet with a driven 100mmx100mm timber post every second panel. Locations where the secondary specification barrier can be utilised are illustrated within the Tree Protection Plan (appendix A) with a dashed light blue line.

2.4.4 It will be necessary to relocate protective fencing in certain areas to facilitate construction works within close proximity to retained trees. Where this is required, secondary positions are illustrated within the Tree Protection Plan (appendix A) with a dotted pink line.

2.4.5 The Site Manager will be responsible for arranging attendance of the Project Arboriculturist, for the purpose of setting out barriers and for their monitoring at appropriate intervals for the

duration of the development; issues will be resolved on site and reported to the Council's Arboricultural Officer by the Project Arboriculturist.

2.5 Supervised Excavation

2.5.1 To implement the scheme of development, it will be necessary to undertake excavation work on the peripheries of T16 (Horse Chestnut) and T22's (Corsican Pine) root protection areas, to accommodate part of an access road and associated footpath.

2.5.2 To avoid detriment occurring to T16 and T22, the excavation works must be carried out sensitively and under arboricultural supervision, adopting the principles within section 7.2 of BS5837:2012. The extent of excavation works which must be carried out under arboricultural supervision are illustrated with an orange wash within the Tree Protection Plan provided within appendix C.

2.5.3 During supervised excavation works within the RPAs of retained trees, the following procedure will be adopted:

- i. The breaking up and clearance of the existing soils must be undertaken under arboricultural supervision, using a low impact method of excavation, utilising hand tools, an air-spade, or a vacuum excavator.
- ii. If necessary, roots that are less than 25mm diameter will be pruned back, preferably to a side branch, using sharp cutting tools in accordance with best practice i.e. using secateurs or pruning saw.
- iii. During the works the protective bark of larger roots is not to be damaged, until the project arboriculturist has judged whether they can be retained or not.
- iv. No roots over 25mm will be pruned without approval of the appointed Project Arboriculturist as they may be integral to tree health and stability. If it becomes necessary to prune roots over 25mm diameter to accommodate site features, the Project Arboriculturist will provide the Developer and the Council's Arboricultural Officer with appropriate recommendations for remedial action/ management.
- v. Any exposed roots which can be retained will be covered in hessian or clean top soil to protect from dehydration and temperature flux. Hessian is to be removed prior to backfilling.
- vi. Areas adjacent to roots that are to be filled with concrete will be lined with an impermeable membrane to prevent concrete leachate coming into contact with tree roots.
- vii. Any use of an excavator to complete excavations will occur from outside the trees' RPA (which will be spray-marked on the ground in advance of the works taking place). A toothless bucket will be utilised at all times.

- viii. A record of exposed roots will be made and accompanied by a photographic log.
- ix. Should any issues be raised during the works then the Project Arboriculturist will inform the Developer and the Council's Arboricultural Officer, indicating the nature of the problem and recommendations for remedial action (if required).
- x. Tree protection barriers are to be reinstated or repositioned on completion - whichever is within the interest of protecting RPAs. This will be determined by the Project Arboriculturist.
- xi. Upon request, written confirmation of the works being undertaken to a satisfactory standard can be provided to the Developer and the Council's Arboricultural Officer by the Project Arboriculturist.

2.6 **Proposed Order of Works**

- i. Site meeting to be held between the Project Arboriculturist, Site Manager and the Council's Arboricultural Officer. Stages of arboricultural auditing/monitoring requirements will be identified/agreed.
- ii. Necessary tree removals to be carried out prior to installation of tree protection barriers and commencement of development works in the vicinity.
- iii. Tree protection barriers are to be installed following removals and prior to construction works commencing in the vicinity. Upon request, barrier positions can be set-out by the Project Arboriculturist, as detailed within this document.
- iv. The Council's Arboricultural Officer shall be informed of the proposed commencement date as soon as possible, to allow the inspection of protection measures.
- v. The Site Manager will assume responsibility for arranging the attendance of the Project Arboriculturist to oversee, relocation of barriers and for the supervision of works within retained trees' RPAs, as detailed within the Works Auditing Schedule (appendix B).
- vi. The Site Manager will also assume responsibility for arranging attendance of the Project Arboriculturist for the monitoring of barriers at appropriate intervals for the duration of the development works. Erection of barriers and monitoring is included within the Works Auditing Schedule (appendix B).

2.7 Site Manager's Point of Contact for Arboricultural Input:

- A. Mr Patrick Haythornthwaite (Aspect Arboriculture)
Principal Arboricultural Consultant
Telephone: 01295 276066
Email: Patrick.Haythornthwaite@aspect-arbor.com
- B. Mr Justin Hodges (Aspect Arboriculture)
Arboricultural Consultant
Telephone: 01295 276066
Email: Justin.Hodges@aspect-arbor.com

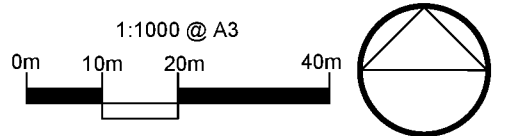
3 CONCLUSIONS

- 3.1 This document has been prepared in response to Arun District Council Local Plan Policy ENV DM4. It relates to the residential development of Land South of Barnham Station and has been informed by guidance provided in BS5837:2012 including details of the site's existing trees (collected during August 2020).
- 3.2 Pursuant to the instruction, this document and its supporting work (Appendices A - D) identifies all aspects of the development that must be managed to facilitate the confident protection of retained trees during construction.
- 3.3 To ensure confident tree retention, siting of tree protection barriers and the specified construction works must be audited by the Project Arboriculturist; the outcome of these works will be reported to the Council's Arboricultural Officer on completion. These elements are specified within the Works Auditing Schedule (appendix B).
- 3.4 It is Aspect's opinion that, subject to strict adherence to this document, the development can be implemented without incurring harm to retained trees.

APPENDICES

APPENDIX A

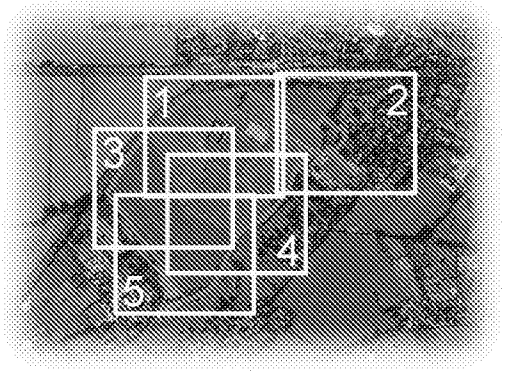
TREE PROTECTION PLAN - 10716 TPP 01 Rev A



- KEY:
- Site Boundary
 - Tree Numbers
 - Tree Canopies
 - Category 'U' Trees
 - Category 'A' RPA
 - Category 'B' RPA
 - Category 'C' RPA
 - Trees to be Removed
 - Tree Protection Barrier
 - Tree Protection Barrier (Secondary Specification)
 - Tree Protection Barrier (2nd Position)
 - Manual Excavation

Note: Trees 1-11, 15, 22, 23, 28-29 and 50-53. Groups 1-11, 13, 14, 16, and 21-22; and Hedgerows 1-4, 5 and 10 have been plotted using measurements onsite in conjunction with aerial imagery. Their locations were not recorded on the topographical survey of the site. Groups 18-20 and Hedgerows 7, 9 and 11 were partly recorded on the survey and have been plotted using this along with measurements onsite and aerial imagery (drawing ref: SOR017713-2d.dwg).

Note: The RPA footprint for Trees 5, 8-11, 13, 14, 16-18, 20, 21, 23, 25, 29-35, 39, 41-46 and 48-52 and Groups 9, 12, 17 and 21 have been displaced to allow for the effect of the adopted highway, existing building foundations and existing watercourse. The surface area of the RPA has not been reduced with the exception of Tree 49, due to its location.



Cited from Google Earth

REV	DATE	NOTE	Drawn	Chk'd

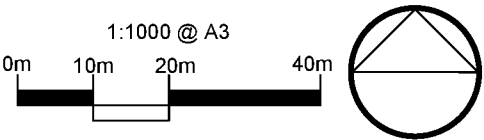
aspect arboriculture

TITLE
**Land South of Barnham Station
Tree Protection Plan**

CLIENT
Gleeson Strategic

SCALE 1:1000 @ A3	DATE NOV 2020	DRAWN GW
DRAWING NUMBER 10716 TPP 01 Rev A (1/5)		REVISION

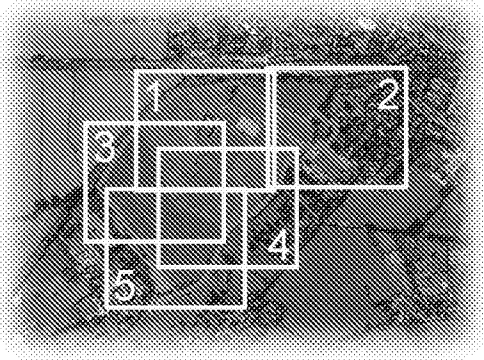
Based on: 1311_Tars Farm_Application drawings_181120.dwg



- KEY:
- Site Boundary
 - Tree Numbers
 - Tree Canopies
 - Category 'U' Trees
 - Category 'A' RPA
 - Category 'B' RPA
 - Category 'C' RPA
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aspect arboriculture

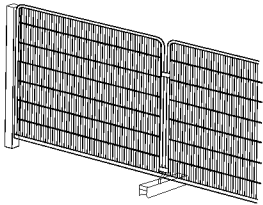
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Land South of Barnham Station
Tree Protection Plan

CLIENT
Gleeson Strategic

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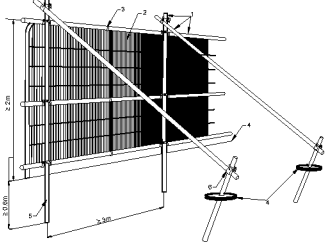
Based on: 1311_Tars Farm_Application drawings_181120.dwg

Secondary Reduced Barrier Specification

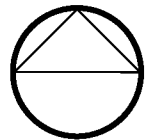
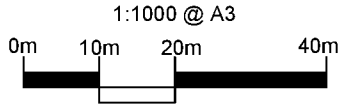


Heras panels supported with pinned rubber feet and driven 100x100mm timber posts on every second panel.

Default Barrier Specification, cited BS 5837:2012



Key
1 Standard scaffold poles
2 Heavy gauge 2m tall galvanized tube and welded mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6m)
6 Standard scaffold clamps

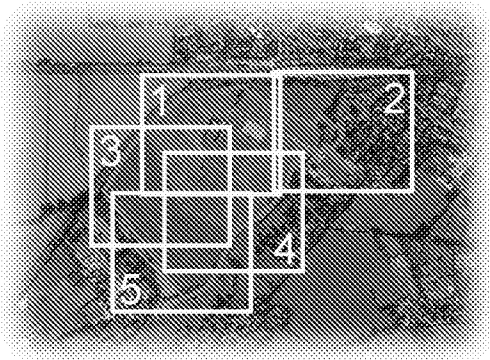


KEY:

- Site Boundary
- Tree Numbers
- Tree Canopies
- Category 'U' Trees
- Category 'A' RPA
- Category 'B' RPA
- Category 'C' RPA
- Trees to be Removed
- Tree Protection Barrier
- Tree Protection Barrier (Secondary Specification)
- Tree Protection Barrier (2nd Position)
- Manual Excavation

Note: Trees 1-11, 15, 22, 23, 28-29 and 50-53. Groups 1-11, 13, 14, 16, and 21-22; and Hedgerows 1-4, 5 and 10 have been plotted using measurements onsite in conjunction with aerial imagery. Their locations were not recorded on the topographical survey of the site. Groups 18-20 and Hedgerows 7, 9 and 11 were partly recorded on the survey and have been plotted using this along with measurements onsite and aerial imagery (drawing ref: SOR017713-2d.dwg).

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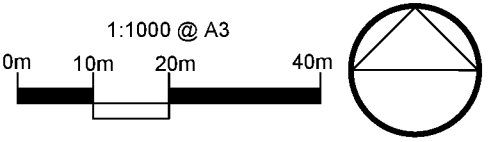
TITLE
Land South of Barnham Station
Tree Protection Plan

CLIENT
Gleeson Strategic

SCALE 1:1000 @ A3	DATE NOV 2020	DRAWN GW
DRAWING NUMBER 10716 TPP 01 Rev A (3/5)	REVISION	

Based on: 1311_Tars Farm_Application drawings_181120.dwg

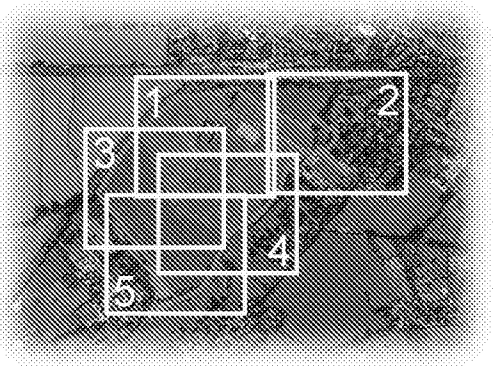
Existing boundary watercourse considered sufficient to protect offsite trees.



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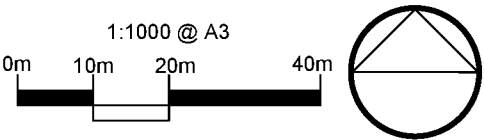
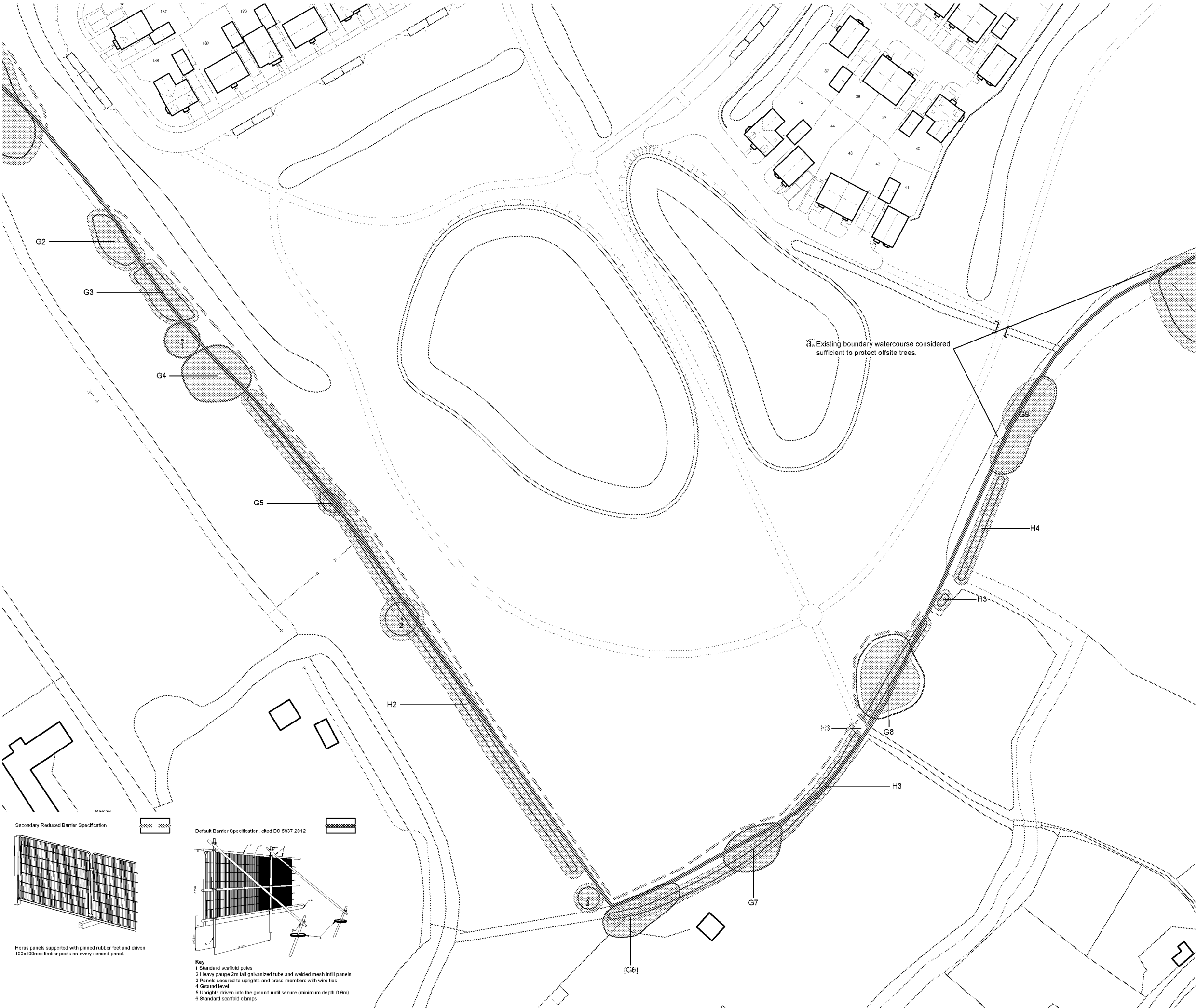
aspect arboriculture

TITLE
Land South of Barnham Station
Tree Protection Plan

CLIENT
Gleeson Strategic

SCALE 1:1000 @ A3	DATE NOV 2020	DRAWN GW
DRAWING NUMBER 10716 TPP 01 Rev A (4/5)		REVISION

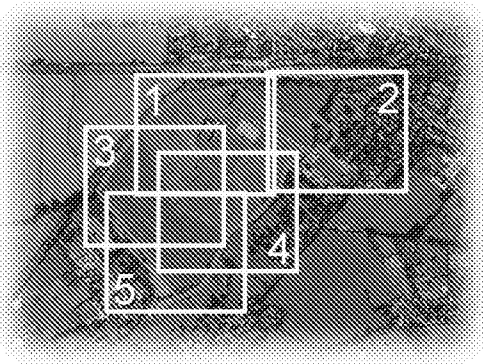
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aspect arboriculture

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Land South of Barnham Station
Tree Protection Plan

CLIENT
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SCALE 1:1000 @ A3	DATE NOV 2020	DRAWN GW
DRAWING NUMBER 10716 TPP 01 Rev A (5/5)	REVISION	

Based on: 1311_Tars Farm_Application drawings_181120.dwg

Secondary Reduced Barrier Specification

Horas panels supported with pinned rubber feet and driven 100x100mm timber posts on every second panel.

Default Barrier Specification, cited BS 5837:2012

Key
1 Standard scaffold poles
2 Heavy gauge 2m tall galvanized tube and welded mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6m)
6 Standard scaffold clamps

APPENDIX B

WORKS AUDITING SCHEDULE

Works Auditing Schedule

Works Requiring Auditing	Tree No.	Date Undertaken	Date Reported to LPA
1. Pre-commencement meeting identifying tree removals, tree protection barrier locations and safeguarding measures, as specified within 10716_AMS.001 and illustrated on drawing no. 10716_TPP.01.	As drawn		
2: Inspection of tree protection barriers prior to commencement of development works by Project Arboriculturist.	As drawn		
3: Supervised Excavation	T16 T22		
Inspection of installed tree protection barriers as specified within 10716_AMS.001 and illustrated on drawing no. 10716_TPP.01, on an appropriate basis.	As drawn		

This schedule will be completed as evidence that works have been undertaken as per the approved methodology.

APPENDIX C

TREE SURVEY SCHEDULE (10716 TS 01)

BS 5837:2012 Tree Schedule: Land South of Barnham Station

e.g.: young, semi-mature, early-mature,
mature or over-mature

Height and Crown spread measured to the nearest half meter; # denotes where this is estimated.

Category prefix A-C denotes arboricultural quality, decreasing from A (high) to C (low); Subcategories 1, 2 and 3 highlight associated arboricultural (1), landscape (2) and ecological (3) qualities.

Category U trees are those in such a condition that they cannot be realistically retained as living trees in the current context for the long term.

Measured to the nearest 10mm; # denotes estimated diameter where access is not possible.

*e.g.: above-average, average,
below average or dead*

Height of first significant branch and/or canopy

General observations, i.e. defects, preliminary management recommendation, presence of pests/disease, perceived significance.

e.g.: good, indifferent, poor, or hazardous

The following survey should not be interpreted as a report on tree health and safety. Aspect's opinion of tree condition and structural potential is valid for a limited period of 12 months from the date of inspection. Validity is assumed in the absence of inclement weather and no change to the trees existing setting.

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	Radial								
1	Goat Willow	3" 200 2" 150 #	7.5m					5 #	1 #	2 #	Early Mature	Below Average	Indifferent	Situated within field boundary Inaccessible due to dense understorey Appears offsite within neighbouring third party land Sparse canopy at time of survey Low arboricultural quality	C12	4.8
2	Goat Willow	2" 200 2" 170 #	7.5m					6	0.5 #	0.5 #	Early Mature	Average	Poor	Situated within field boundary Inaccessible due to dense understorey Appears offsite within neighbouring third party land Forks into three co dominant stems from c.0.25m, unions appear tight and included Low arboricultural quality	C12	4.5
3	Ash	250 #	6m					4 #	1 #	2 #	Semi Mature	Average	Indifferent	Situated within field boundary Inaccessible due to dense understorey Appears offsite within neighbouring third party land Low arboricultural value, readily replaceable at current size	C12	3
4	Norway Spruce	170 #	5.5m					3 #	1.5 #	1 #	Semi Mature	Average	Indifferent	Inaccessible, offsite within neighbouring third party land Low arboricultural value, readily replaceable at current size	C12	2.1
5	English Oak	1100 # of	20m	6.5	13	9 #	9		5 #	1.5	Mature	Average	Indifferent	Principal field boundary component Inaccessible, offsite within neighbouring third party land to south of water course Partially clad and obscured by Ivy, unable to thoroughly inspect Large scaffold tear out wound - exposing heartwood to north at c.6.5m Above average epicormic growth Average internal deadwood of frequent large diameter Visually prominent individual	A2	13.2*
6	False Acacia	280 #	12.5m					4	1 #	0.5 #	Semi Mature	Below Average	Indifferent	Inaccessible, offsite within neighbouring third party land to south of water course Sparse canopy at time of survey Above average minor epicormic growth and internal deadwood Unremarkable example of species	C1	3.3

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	Radial								
7	Copper Beech	600 #	14.5m					7 #	2.5 #	2 #	Early Mature	Average	Indifferent	Inaccessible, offsite within neighbouring third party land to south of water course Structure appears typical for species within current context Average internal deadwood Moderate example of species whilst maturing	B12	7.2
8	Corsican Pine	800 #	25m					5 #	15	13.5	Mature	Average	Indifferent	Dominant field boundary component Inaccessible, offsite within neighbouring third party land to south of water course Structure appears typical for species within current context Average internal deadwood Prominent within moderate distance views from all directions	A2	9.6*
9	English Oak	680	16.5m	7.5	9	7.5 #	8		4.5	1.5	Early Mature	Average	Indifferent	Established within field boundary on embankment of adjacent water course Kinks to north at c.1.75, then corrects at c. 3m Average internal deadwood Minor epicormic growth Moderate example of species whilst maturing	B12	8.1*
10	English Oak	900 #	15.5m	5	7.5	10.5 #	6.75		1.75	1	Mature	Below Average	Indifferent	Established within field boundary on embankment of adjacent water course Clad in dead ivy Unbalanced scaffold structure, biased to south Unsympathetic scaffold limb removals to south Above average minor epicormic growth Slightly sparse canopy at time of survey Prominent boundary feature	B2	10.8*
11	Hawthorn	3" 100 6" 95	4.5m	4.5	4.75	3.5	4.25		0.5	0.5	Early Mature	Average	Indifferent	Established scrub Low arboricultural quality	C12	3.6*
12	Lawson Cypress	110	4m					1.75	0.25	0.25	Semi Mature	Average	Indifferent	Establishing ornamental planting Low arboricultural value, readily replaceable at current size	C12	1.5
13	Elder	2" 180 5" 100 3" 70	4m					2.75	0.25	0.25	Early Mature	Average	Indifferent	Established scrub Low arboricultural quality	C12	4.2*

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	Radial								
14	Hawthorn	250 2" 90	3.5m					2.75	1	0.5	Early Mature	Average	Indifferent	Established scrub Low arboricultural quality	C12	3.3"
15	English Oak	600 #	13.5m					5	3 #	3 #	Early Mature	Average	Indifferent	Inaccessible, offsite within neighbouring residential land Structure appears typical for species within current context Average internal deadwood Prominent within moderate distance views	B2	7.2
16	Horse Chestnut	830 # oi	18m	8	3.75	8	8.25		5	1.5	Mature	Average	Indifferent	Established within field boundary Inaccessible due to dense understory Clad and obscured by Ivy, unable to thoroughly inspect Average internal deadwood Minor epicormic growth High value as prominent cohesive pair with T17	A2	9.9"
17	Horse Chestnut	680 # oi	16.5m	6	5.25	5.75	3		5.5	1.5	Early Mature	Average	Indifferent	Established within field boundary Inaccessible due to dense understory Clad and obscured by Ivy, unable to thoroughly inspect Average internal deadwood Minor epicormic growth High value as prominent cohesive pair with T16	A2	8.1"
18	Horse Chestnut	390 # oi	9.5m	6	3.5	1	3		1 #	1	Early Mature	Below Average	Indifferent	Established within field boundary Inaccessible due to dense understory Heavily suppressed by T16 and T17 Sparse canopy and dieback to tips at time of survey Reduced future potential	C12	4.8"
19	Horse Chestnut	550 #	13m	4 #	5.5	6.25	6.25		4.75	2.25	Early Mature	Below Average	Hazardous	Considered to be in a state of terminal decline	U	N/A
20	Lime	1100 #	18.5m	6	6	6.75	6		1.75	1	Mature	Average	Indifferent	Dominant field boundary component Inaccessible due to prolific basal epicormic growth Slightly sparse upper canopy at time of survey Average internal deadwood Visually prominent individual	A2	13.2"

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	Radial								
21	Lime	1000 #	11.5m	6	5.5	6	4.5		0.5	0.5	Mature	Below Average	Indifferent	Established within field boundary Inaccessible due to prolific basal epicormic growth Unsympathetic reduction in height to c.11m Dieback to upper crown Above average epicormic growth Individually of low quality, conferred moderate value as component of wider collective	B2	12*
22	Corsican Pine	740	16m	5.5	7 #	7.5	10		7	2.75	Mature	Average	Indifferent	Component of G16 Structure typical for species within current context Unsympathetic lower limb removals Prominent within views from surrounding dwellings High value as component of wider collective Subject to Tree Preservation Order ref: TPO BN/3/20:T1	A2	9
23	Lime	930	20m	8	5	6	6.75		5.5	3	Mature	Average	Indifferent	Component of G16 Structure typical for species within current context Average internal deadwood and epicormic growth Prominent within views from surrounding dwellings High value as component of wider collective	A2	11.1*
24	English Oak	970	20m	10.5	10 #	11.25	9.5 #		3.75	0.5	Mature	Average	Indifferent	Established within H7 Structure typical for species within current context Above average minor internal deadwood Visually prominent individual Good example of species at maturity Subject to Tree Preservation Order ref: TPO BN/1/18:T1	A12	11.7
25	Magnolia	150 2" 100	5.5m	3.75	3	3 #	4		0.75	0.5	Early Mature	Average	Indifferent	Established ornamental planting Low arboricultural value, readily replaceable at current size	C12	2.4*
26	Apple	190 2" 170 7" 140	7.5m	4.5	2	4	3		0.5	0.5	Early Mature	Average	Poor	Dominant component of G17 Multi stemmed from ground level, unions tight and included Unremarkable example of the species	C12	5.7
27	Cherry	340	7.5m	7.5	5.75	3.5	5		2.75	2	Early Mature	Below Average	Poor	Dominant component of G17 Unbalanced scaffold structure, biased to north Sparse canopy at time of survey Unremarkable example of species	C12	4.2

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	Radial								
28	Holm Oak	450 #	13.5m					6.5	5 #	4.5 #	Early Mature	Average	Indifferent	Inaccessible, offsite within neighbouring residential land Structure appears typical for species within current context Unsympathetic lower limb removals Prominent within views from adjacent road and surrounding dwellings	B2	5.4
29	Corsican Pine	550 #	15.5m					5.75	4.5 #	4 #	Early Mature	Average	Indifferent	Inaccessible, offsite within neighbouring residential land Structure appears typical for species within current context Average internal deadwood Prominent within views from adjacent road and surrounding dwellings	B2	6.6*
30	Sycamore	370	16.5m	5 #	5.5	3.75	5.25		5.25	6	Early Mature	Average	Indifferent	Dominant component of G17 Average internal deadwood Unremarkable example of species	C1	4.5*
31	Plum	370 160	9.5m	3	4.75	5.75	7.5		0.5	0.5	Early Mature	Below Average	Indifferent	Dominant component of G17 Sparse canopy at time of survey Unremarkable example of species	C1	4.8*
32	Sycamore	440 380 320 180	14.5m	5 #	5.25	8.25	6.25		5	4	Early Mature	Average	Poor	Dominant component of G17 Multi stemmed from c.0.25m, unions tight and included Unsympathetic lower limb removals Unremarkable example of the species	C1	8.4*
33	Sycamore	430 280	14	6 #	8.5	3.75	3.5 #		6	4.75	Early Mature	Average	Poor	Dominant component of G17 Bifurcates from c.0.25m, union over included with lobed reaction growth Unremarkable example of species	C1	6.3*
34	Sycamore	380	14m	2 #	6	7.5	4		6.5	5	Early Mature	Average	Indifferent	Dominant component of G17 Basal epicormic growth Unremarkable example of species	C1	4.5*
35	Silver Birch	380	15m	6.25	4.75	6.75	5		6.5	4	Early Mature	Average	Indifferent	Establishing urban planting Unsympathetic crown reduction Prominent within views from adjacent road and surrounding dwellings	B2	4.5*

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	Radial								
36	Whitebeam	470	10m	5.5	5.75	5	4.5		3	3	Early Mature	Below Average	Indifferent	Established urban planting Unsympathetic large diameter pruning to lower crown <i>hannotus hispidus</i> fruiting body to south at c.4.5m Prominent within views from surrounding dwellings	B2	5.7*
37	Goat Willow	2" 250 #	12m					5	3.5	2.5	Early Mature	Below Average	Poor	Inaccessible, offsite within residential garden Standing deadwood	U	N/A
38	Hawthorn	140 120 #	4.5m					2.75	0.5	0.5	Semi Mature	Average	Indifferent	Situated within roadside grass verge Low arboricultural value, readily replaceable at current size	C12	2.1
39	Cherry	430 270	9.5h	7	7.25	4.5	7.25		3.25	1.5	Mature	Average	Poor	Established urban planting Co-dominant tear out wound at c.1.5m with signs of active decay Split forming within co-dominant union Unremarkable example of species	C1	5.4*
40	Silver Birch	300	9.5m	1.5	4.25	4.5	2.25		2	1.5	Early Mature	Below Average	Indifferent	Established urban planting Prominent within views from surrounding dwellings Unsympathetic crown reduction Dieback throughout entire crown Unremarkable example of species	C1	3.6
41	Silver Birch	410	12m	5.25	3.75	5.25	4		3.75	0.25	Early Mature	Average	Indifferent	Established urban planting Prominent within views from surrounding dwellings Unsympathetic crown reduction Unremarkable example of species	C1	4.8*
42	Hawthorn	430	5m	3.75	3.25	4	4		1.5	1.5	Mature	Below Average	Indifferent	Established urban planting Prominent within views from surrounding dwellings Dieback throughout entire crown Unremarkable example of species	C1	5.1*

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	Radial								
43	Beech	880	16m	10m	11m	10m	10m		4m	1.5	Mature	Average	Poor	Established urban planting Sub dominant stem at c.2m, union over included with lobed reaction growth Average internal deadwood Minor epicormic growth Visually prominent individual	A2	10.5*
44	Cherry	380	6m	3.75	3.75	4.75	4		2	2	Early Mature	Below Average	Poor	Established urban planting Prominent within views from surrounding dwellings Unsympathetic crown reduction Sparse canopy at time of survey Unremarkable example of species	C1	4.5*
45	Cherry	385	6m	3.5	2.75	3.5	3		2	3.5	Early Mature	Below Average	Poor	Established urban planting Prominent within views from surrounding dwellings Unsympathetic crown reduction Sparse canopy at time of survey Unremarkable example of species	C1	4.5*
46	Whitebeam	460	9.5m	5.5	5 #	4.5	5		3	2.5	Early Mature	Average	Poor	Established urban planting Prominent within views from surrounding dwellings Bifurcates from c.1.5m, union over included with lobed reaction growth Squat canopy form Unremarkable example of species	C1	5.4*
47	Apple	140	4.5m					2.5	1.5	1	Semi Mature	Average	Indifferent	Establishing urban planting Low arboricultural value, readily replaceable at current size	C12	1.8
48	Monterey Cypress	310 2" 160 4" 140 2" 100	13.5	4	1 #	5.5	5.75		1	3	Early Mature	Average	Poor	Situated within roadside grass verge Multi stemmed from c.0.5m, unions tight and included Prominent within views from adjacent road Unremarkable example of species	C1	5.7*

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	Radial								
49	Beech	800	18.5m	8.5	9.5	7.75	8		2.5	1.5	Mature	Average	Indifferent	Situated within roadside grass verge Multiple fused and crossing scaffold limbs Average internal deadwood Minor epicormic growth Prominent within views from all directions	A2	9.6*
50	Corsican Pine	400 #	15m					6	6 #	2.5	Early Mature	Average	Indifferent	Inaccessible, offsite within neighbouring residential land Unsympathetic pruning to lower crown Structure appears typical for species within current context Prominent within views from adjacent roads and surrounding dwellings	B2	4.8*
51	Corsican Pine	700 # oi	20m	7.5	10	9#	9.5		6	5	Early Mature	Average	Indifferent	Inaccessible, offsite within neighbouring residential land Partially clad and obscured by Ivy, unable to thoroughly inspect Unsympathetic pruning to lower crown Structure appears typical for species within current context Prominent within views from adjacent roads and surrounding dwellings	B12	8.4*
52	English Oak	625	16m	9	6.5	9 #	10.25		4.75	5.5	Early Mature	Average	Indifferent	Established within roadside grass verge Slightly sparse canopy at time of survey Average internal deadwood Minor epicormic growth Structure typical for species within current context Prominent within views from adjacent road and surrounding dwellings Moderate example of species whilst maturing	B12	7.5*
53	English Oak	500 oi	10.5m					6.75	2.25	0.5	Early Mature	Average	Indifferent	Inaccessible, offsite within neighbouring railway embankment Clad and obscured by Ivy, unable to thoroughly inspect Structure appears typical for species within current context Squat canopy form Unremarkable example of species	C1	6
G1	Alder Elder Hawthorn	390 max	17m max					6.75 max	0.5 to 2.5	0.5 to 2.5	Semi Mature to Early Mature	Below Average to Average	Poor to Indifferent	Cohesive field boundary majoring on Alder with self-set Elder and recently planted Hawthorn whips as understory Frequent multi-stemmed Alder occurring throughout Individually of limited merit, moderate value as prominent collection	B2	4.8

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	Radial								
G2	Field Maple	290 max #	9.5m max					6 max	1 to 3 #	0.5 to 2.5	Semi Mature	Average	Indifferent	Collection of 3no Field Maple Inaccessible due to dense Bramble understory Appears offsite within neighbouring third party land Low arboricultural quality	C1	3.6
G3	Dogwood	75 # max	4m max					2 # av	0.25 av	0.25 av	Young to Semi Mature	Average	Indifferent	Field boundary parcel Inaccessible due to dense Bramble understory Low arboricultural value, readily replaceable at current size,	C12	0.9
G4	Field Maple Hazel Blackthorn Elder	300 # max	10m max					3.75 av	0.5 to 2.5	0.5 to 2	Young to Semi Mature	Average	Indifferent	Field boundary collection Inaccessible due to dense Bramble understory Low arboricultural quality	C12	3.6
G5	Field Maple	250 # av	8m max					4 max	0.5 to 3	0.5 to 2.5	Semi Mature	Average	Indifferent	Field boundary collection of 2no Field Maple Low arboricultural quality	C12	3
G6	Hawthorn	220 170 150 max	5m max					5 max	0.5 av	0.5 av	Early Mature	Dead to Below Average	Poor	Cohesive pair of Hawthorn, one is standing deadwood and the other is in a state of terminal decline Unsuitable for retention	U	N/A
G7	Ash English Oak Hawthorn	500 # max	10m max					5.75 max	0.5 to 2.5	0.5 to 1.5	Early Mature	below Average	Indifferent	Cohesive field boundary collection Inaccessible, offsite within neighbouring third party land Ash component has dieback throughout crown and above average epicormic growth English Oak has a squat canopy form Unremarkable collection	C1	6
G8	Ash Field Maple Hawthorn Blackthorn	900 # max	13.5m max					9.5 max	1 to 4	0.5 to 5.5	Semi Mature to Mature	Below Average to Average	Poor to Indifferent	Inaccessible, offsite within neighbouring third party land Large cavity to Ash from ground level to c.1m with signs of active decay Prominent within moderate distance views	B2	10.8
G9	Field Maple	380 # max	8.5m max					4.25 max	0.5 av	0.5 av	Semi Mature to Early Mature	Below Average	Indifferent	Boundary collection of 4no Field Maple Situated on north and south embankments of watercourse All components have dieback to upper crown Unremarkable collection	C1	4.5*

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	Radial								
G10	Horse Chestnut Crack Willow Hawthorn Elm Elder Silver Birch	400 max	13.5m					7.5 max	0.5 to 2.5 #	0.5 to 1.5	Young to Early Mature	Average	Poor to Indifferent	Cohesive parcel mapping on Crack Willow Inaccessible, offsite within neighbouring third party land Situated to south of water course Individually of limited merit, conferred moderate value as collection only	B2	4.8
G11	Hawthorn Ash Elm	200 max	6m max					3.75 max	0.5 av	0.5 av	Semi Mature	Average	Indifferent	Intermittent understory scrub group for T5 to T8 Low arboricultural quality	C12	2.4
G12	Apple	360 max	5.5m max					4.75 max	0.5 to 2	0.5 to 1	Semi Mature to Early Mature	Average	Indifferent	Cohesive collection of 4no orchard plantings Low arboricultural value, predominantly readily replaceable at current size	C12	4.2*
G13	Horse Chestnut Ash Elder Leyland Cypress	880 # max	19.5m max					9.5 max	0.5 to 5.5	0.5 to 3.5	Semi Mature to Mature	Below Average to Average	Poor to Indifferent	Cohesive field boundary collection Appears outside of sites boundary Structures typical for species within current context High collective value	A2	10.5
G14	Elm Hawthorn Lime Elder Privet Purple Plum Holly Buddleia	295 max oi	11.5 max					4.25 max	0.5 av	0.5 av	Semi Mature	Average	Indifferent	Unmanaged boundary collection of establishing scrub and ornamental plantings Provides screen of adjacent residential land Low arboricultural quality	C12	3.6
G15	Apple	130 2" 100 max	5.5m max					2.7 av	0.5 av	0.5 av	Young to Semi Mature	Average	Indifferent	Cohesive collection of ornamental plantings Low arboricultural value, readily replaceable at current size	C12	
G16	Walnut Larch Beech Lime	640 av	22m max					8.75 max	0.5 to 10	0.5 to 9	Semi Mature to Mature	Average	Indifferent	Mutually suppressed, cohesive collection of established ornamental plantings Appears outside of sites boundary Structures typical for the species within current context Individually of moderate quality, high value as collective only	A2	7.8

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	Radial								
G17	Cherry Norway Maple Viburnum Rhododendron Dogwood Spotted Laurel Norway Spruce Damson Holly Bay Laurel Leyland Cypress Hawthorn Magnolia Purple Plum	2" 160 2" 150 max	7m max					3 av	0.5 av	0.5 av	Young to Semi Mature	Average	Indifferent	Two cohesive parcels of previously maintained ornamental plantings Situated within domestic garden of Tars Farm House Low arboricultural value, readily replaceable at current size	C12	3.6*
G18	Cherry Plum Holly Sycamore Elm Hazel Snowberry Bay Laurel Cherry Laurel Lonicera	180 av	9m max					5 max	0.5 av	0.5 av	Semi Mature	Average	Indifferent	Intermittently cohesive collection of ornamental plantings and establishing self-set specimens Partially offsite within multiple residential gardens and roadside verge Low arboricultural value, readily replaceable at current size	C12	2.1
G19	Field Maple Silver Birch Dogwood Buddleia Sycamore English Oak Ash	150 max	8.5m max					2.75 max	0.5 av	0.5 av	Young to Semi Mature	Average	Indifferent	Cohesive collection of urban plantings and self-set specimens Situated within grass verge of adjacent public footpath Low arboricultural value, readily replaceable at current size	C12	1.8
G20	Sycamore Walnut	280 # av	14.5m max					6.5 max	0.5 to 5 #	0.5 to 4 #	Semi Mature	Average	Indifferent	Intermittently cohesive collection of established ornamental plantings Inaccessible, offsite within neighbouring residential land Structures appear typical for species within current context Prominent within views from adjacent road Individually of low significance, moderate value as collective only	B2	3.3

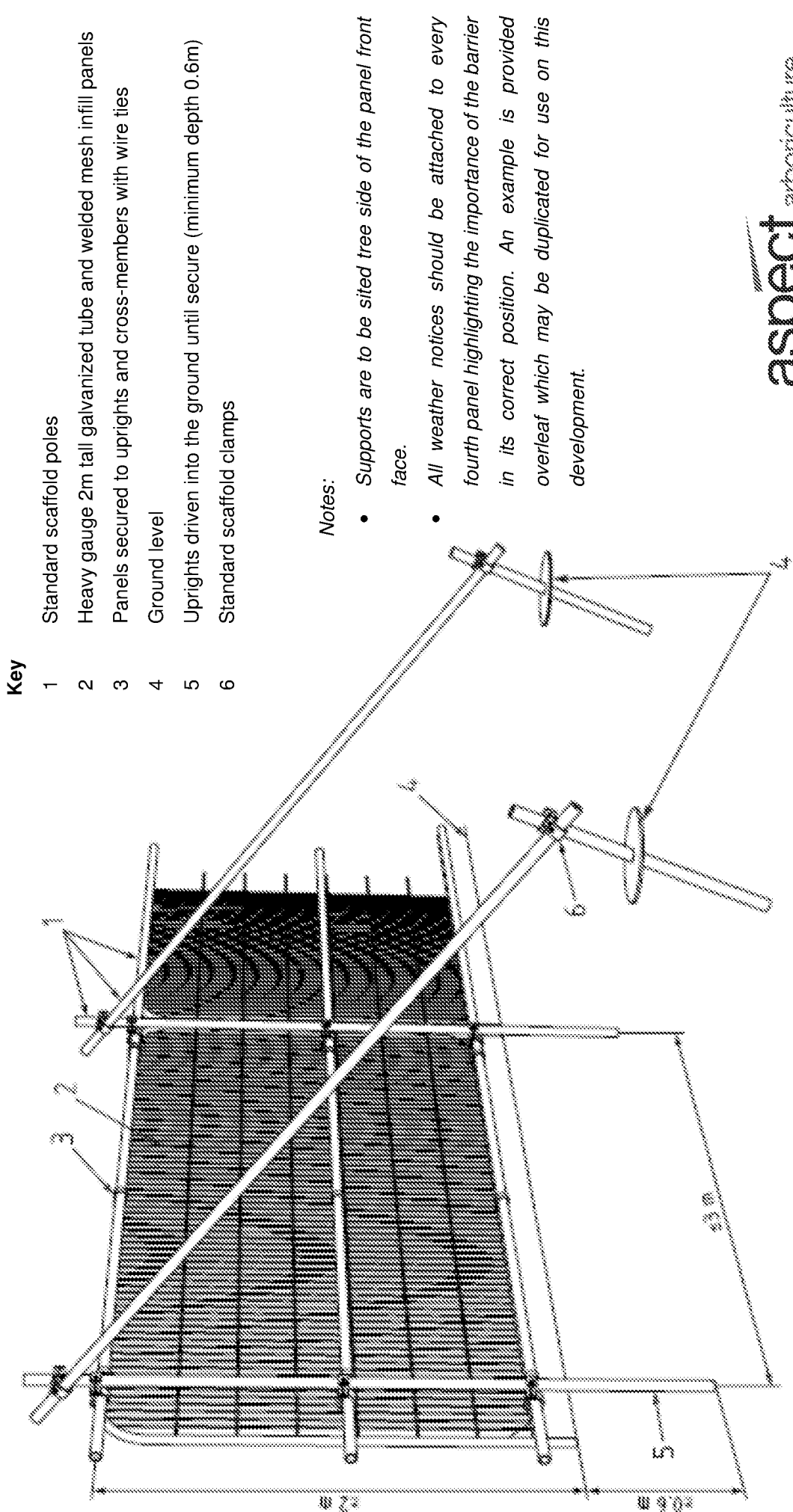
Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	Radial								
G21	Bay Laurel Sycamore Beech Snowberry Elaeagnus Holly Lonicera	390 oi max	16.5m max					5 av	0.5 to 3.5	0.5 to 4.5	Young to Early Mature	Average	Indifferent	Mixed cohesive collection of ornamental plantings and establishing self-set specimens Situated within roadside verge and multiple residential gardens Unremarkable collection	C1	4.8*
G22	Hawthorn Field Maple Blackthorn	210 2" 140 max	5.5m max					2.5 av	0.5 av	0.5 av	Semi Mature	Below Average to Average	Poor to Indifferent	Intermittent field boundary collection majoring on Field Maple Low arboricultural quality	C1	3.6
H1	Blackthorn Elder Hawthorn Dogwood	75 av	5m max					4 max	0.25 av	0.25av	Semi Mature	Average	Indifferent	Unmanaged field boundary hedgerow	C12	0.9
H2	Blackthorn Hawthorn Dogwood Elder	75 av	3m to 7m					2.75 av	0.25 av	0.25 av	Semi Mature	Average	Indifferent	Unmanaged field boundary hedgerow	C12	0.9
H3	Blackthorn Hawthorn Elder	75 av	3.5m max					2 max	0.25 av	0.25 av	Semi Mature	Average	Indifferent	Unmanaged field boundary hedgerow, becomes intermittent towards eastern extent	C12	0.9
H4	Ash Hawthorn Blackthorn	75 # av	4m max					2 av	0.25 av	0.25 av	Semi Mature	Average	Indifferent	Short length of unmanaged field boundary hedgerow Clad and obscured by Bramble, unable to thoroughly inspect	C12	0.9
H5	Beech	25 max	1.5m av					0.25 av	0.25 av	0.25 av	Young	Average	Indifferent	Recently planted whips	C12	0.3
H6	Damson Beech Sycamore Hawthorn Privet Blackthorn	250 max	3m to 7m					4.5 max	0.25 av	0.25 av	Young to Early Mature	Average	Indifferent	Partially managed field boundary hedgerow, maintained on sides only	C12	3

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	Radial								
H7	Leyland Cypress Beech Apple Cherry Laurel Elm Hazel Privet	75 av	5.5m max					1.5 av	0.25 av	0.25 av	Semi Mature	Average	Indifferent	Maintained domestic hedgerow, majoring on Leyland Cypress	C12	0.9
H8	Spotted Laurel Holly	75 av	2.5m max					1 av	0.25 av	0.25 av	Semi Mature	Average	Indifferent	Maintained domestic hedgerow	C12	0.9
H9	Privet	75 max	1.5m av					1 av	0.25 av	0.25 av	Semi Mature	Average	Indifferent	Maintained domestic hedgerow	C12	0.9
H10	Privet Holly Yew Sycamore	75 av	3m max					1 av	0.25 av	0.25 av	Semi Mature	Average	Indifferent	Intermittently maintained domestic hedgerow	C12	0.9
H11	Yew	75 max	2m max					1 av	0.25 av	0.25 av	Semi Mature	Average	Indifferent	Maintained domestic hedgerow	C12	0.9

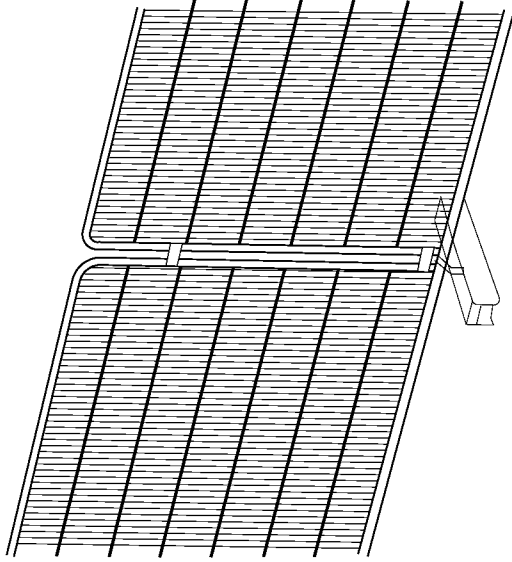
APPENDIX D

TREE PROTECTION BARRIER SPECIFICATION

Recommended Tree Protection Fencing Specification for this Development
(Source: BS 5837: 2012)

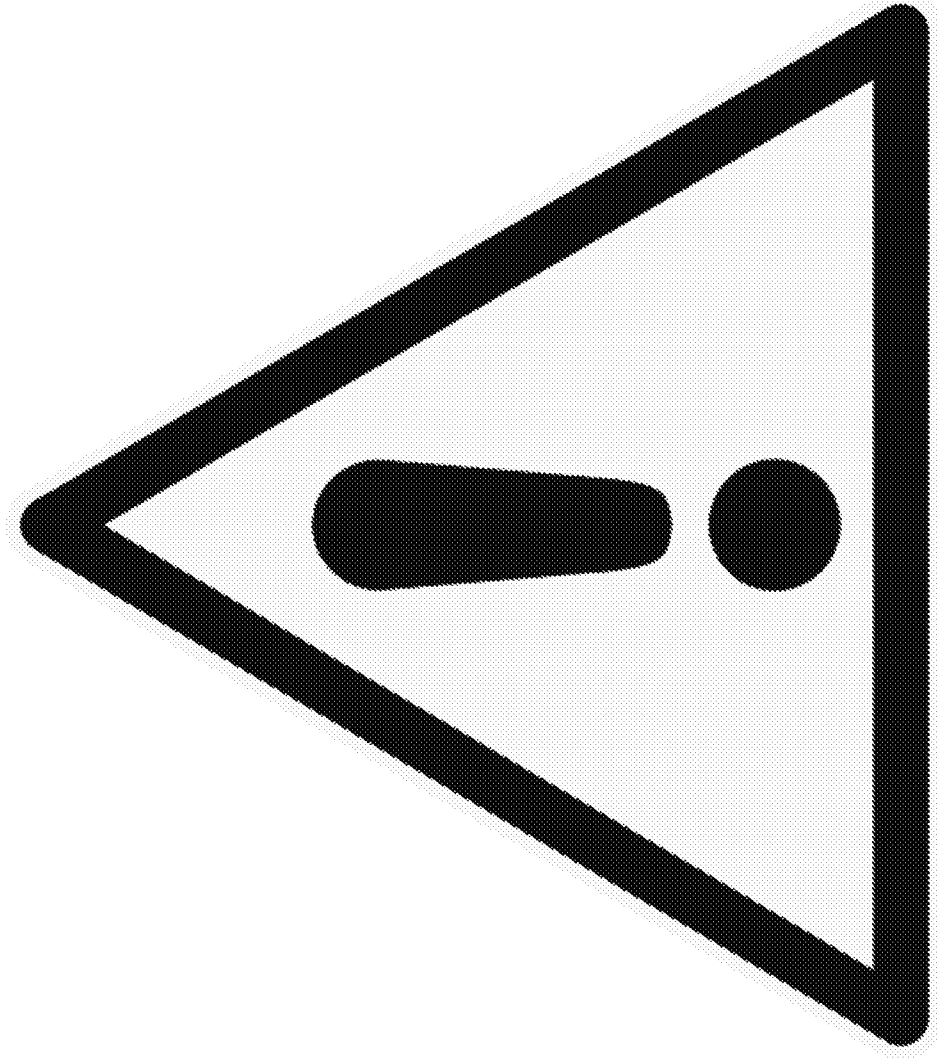


Barrier Type B Specification



Heras panels supported with pinned rubber feet and driven 100x100mm timber posts on every second panel.

TREE PROTECTION BARRIER



- DO NOT MOVE THIS FENCE
- NO SITE ACTIVITY TREE SIDE OF FENCE
- NO STORAGE TREE SIDE OF FENCE
- For assistance call Aspect Arboriculture:
01295 276066

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aspect

Aspect Arboriculture
West Court
Hardwick Business Park
Noral Way