Access Road to Thorney Business Park,
Iver

Arboricultural Method Assessment

December 2024
12338_AMS.001

Project Details	
Client:	Thorney Lane LLP
Project:	Access Road to Thorney Business Park, Iver
Report Title:	Arboricultural Method Statement
Project Number:	11338
File Reference:	11338_AMS.001
Date:	December 2024

Copyright

Limitations

This assessment has been prepared in respect of the proposed development and should not be interpreted as a report on tree health and safety. Reasonable effort has been made to identify visible defects whilst undertaking the tree survey; trees are however, prone to natural failure without warning therefore no guarantee can be made as to the absolute safety of any of the trees surveyed. Aspect's opinion of tree condition and structural potential is therefore 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 context. Reliance should not be given to comments made in respect of other disciplines i.e. landscape, ecology or civil engineering without first consulting an appropriate expert.

Liability

This report has been prepared for the exclusive use of the commissioning client and unless otherwise agreed in writing by Aspect Arboriculture Ltd. no other party may use, or rely on the contents of the report. No liability is accepted by Aspect Arboriculture Ltd. for any use of this report, other than for the purposes for which it was originally prepared and provided. No warranty, express or implied, is made as to the advice in this report. The content of this report is partly based on information provided by third parties. Unless otherwise stated, information obtained from any third party has not been independently verified by Aspect Arboriculture Ltd.

Contact Details

Aspect Arboriculture Ltd.
Hardwick Business Park I Noral Way I Banbury I Oxfordshire I OX16 2AF
t 01295 276066 f 01295 265072 e info@aspect-arbor.com
w www.aspect-arbor.com

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1 Introduction

1.1 Background

1.1.1 Aspect Arboriculture are commissioned by Thorney Lane LLP to prepare an Arboricultural Method Statement and Tree Protection Plan (hereafter the AMS and TPP) to inform tree protection associated with the proposed new access road to Thorney Business Park, Iver.

1.1.2 Planning consent for the development has been granted subject to conditions under ref PL/22/1710/FA. One pre-commencement Condition relates to arboriculture. Condition no.3 requires the production of a Tree Protection Plan and, where needed, construction methodology to ensure the confident protection of retained trees. This AMS has been produced in direct response to this condition, and includes a schedule of works requiring auditing.

1.1.3 Condition 3 reads:

No works or development (including for the avoidance of doubt any works of demolition) shall take place until a tree constraints plan and method statement (in accordance with British Standard 5837:2012 'Trees in relation to design, demolition and construction' (or any replacement thereof or EU equivalent)) has been submitted to and approved in writing by the Local Planning Authority. The method statement shall provide, as required, details of a no dig driveway; phasing of demolition and construction operations; siting of work huts and contractor parking; areas for the storage of materials and the siting of skips and working spaces; the erection of scaffolding. Protective fencing detailed in the method statement shall consist of a vertical and horizontal scaffold framework, braced to resist impacts, with vertical tubes spaced at a maximum level of 3m. On to this, weldmesh panels shall be securely fixed with wire scaffold clamps. The fencing shall be erected to protect existing trees and hedgerows during construction and shall conform to British Standard 5837:2012 'Trees in Relation to Construction' or any replacement thereof or EU equivalent. The approved fencing shall be erected prior to the commencement of any works or development on the site including any works of demolition. The approved fencing shall be retained and maintained until all building, engineering or other operations have been completed. No work shall be carried out or materials stored within the fenced area without prior written agreement from the Local Planning Authority. The approved method statement shall be complied with for the duration of construction works.

1.1.4 The AMS will be submitted to, and approved by, Buckinghamshire 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 development works.

1.1.5 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 Statutory Designations

1.2.1 Background checks reveal that the site does not occur within a Conservation Area, and that no tree preservation orders afford protection to any trees within influence of the application area.

1.3 Scope

1.3.1 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.

1.4 Limitations

1.4.1 The 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.

1.4.2 Aspect's opinion of tree condition and structural potential is valid for limited 12 month 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 Works

2.1 Tree Protection Plan

2.1.1 The Tree Protection Plan (TPP) provided in appendix A will be relied upon during 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 consented redevelopment, it will be necessary to remove trees detailed within Table 1 overleaf; to confirm, the tree removals are identical to those detailed within the site's outline consent. Table 1 differs from that within the Arboricultural Impact Assessment as a result of the updated tree survey; the divergence relates two tree removals (T14 and T15), and the decline of two trees (T1 and T25) from Category C to Category U.

2.2.2 Trees to be removed will be spray marked with a red flash by the project arboriculturist. The presence of the appointed arboricultural contractor, Site Manager and Arboricultural Officer are also recommended during this process to safeguard against erroneous felling.

2.2.3 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.

2.2.4 **Table 1:** Net Tree Removals by BS5837 Category.

Category A	Category B	Category C
None	**T16** English Oak	**T2** White Willow
		G1+Δ
		G2+Δ
		G8+Δ
		G17+Δ
		G18+Δ
		G20+Δ
		G23+
		G26+
		G27+Δ
		G28+Δ

+ Denotes assemblage of three or more species (refer to appendix B)
Δ Denotes partial removal of tree group or hedge

2.3 Pruning Works

2.3.1 The implementation of the consented development will require pruning works, limited to crown lifting trees within G22 which occupy the southern boundary to maintain c.2.5m vertical ground clearance over footpaths. This work will be restricted to the shortening of secondary lower branches only, and will not have any negative effect on tree health, vitality or amenity value. Their function and integrity as boundary features will also remain unaffected.

2.3.2 It is also recommended that dead branches are removed from the canopies of retained trees within G2, which oversail the proposed footpath.

2.3.3 Pruning work must be undertaken in accordance with section 7.3 (for removal of deadwood), and section 7.6 (for crown lifting) 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.

2.3.4 Works should also 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 must be installed before works commence as illustrated on the Tree Protection Plan provided at appendix A. The fencing is to be of the default specification within BS5837:2012, and as cited within the consent's condition. The location for protective barriers has been informed by retained trees' canopy extents and root protection areas (RPA), and are shown within appendix A with a dark blue line.

2.4.2 The Site Manager will be responsible for arranging attendance of the Project Arboriculturist for the purpose of setting out barriers; any issues arising during construction of the access road will be resolved on site and reported to the Council's Arboricultural Officer by the Project Arboriculturist.

2.5 Proposed Order of Works

2.5.1 The following order of works must be followed:

i. Pre-commencement site meeting between the Project Arboriculturist, Site Manager and the Council's Arboricultural Officer. Necessary tree removals, tree protection and any requirements for arboricultural attendance will be discussed and communicated.

ii. Necessary tree removals to be carried out prior to installation of tree protection barriers and commencement of works in the vicinity.

iii. Tree protection barriers to be installed following removals and prior to 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 also assume responsibility for arranging attendance of the Project Arboriculturist should any arboricultural issue arise during construction works.

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

2.6.1 James Bardey (Aspect Arboriculture)

Principal Arboricultural Consultant

Telephone: 01295 585 600

Email: james.bardey@aspect-arbor.com

3 Conclusions

3.1.1 This document has been prepared to in response to Condition 3 attached to the planning consent for the construction of the proposed access road to Thorney Business Park, Iver (PL/22/1710/FA). The document has been prepared to demonstrate how retained trees will be safely integrated as part of the scheme, informed by guidance provided in BS5837:2012 including details of the site's existing trees (updated in July 2024).

3.1.2 Pursuant to the instruction, this document and its supporting work (Appendices A - D) identifies all aspects of the consented works that must be managed to facilitate the confident protection of retained trees during construction.

3.1.3 To ensure confident tree retention, siting of tree protection barriers 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).

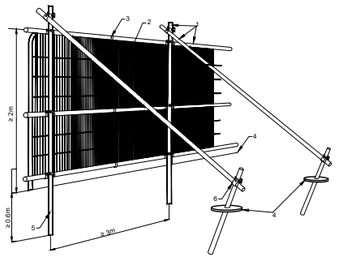
3.1.4 It is Aspect's opinion that, subject to strict adherence to this document, the proposed access road can be constructed without incurring harm to retained trees.

APPENDICES

APPENDIX A

TREE PROTECTION PLAN (11338 TPP 01 Rev A)

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

11338 TPP 01 Rev A (1/6)

11338 TPP 01 Rev A (2/6)

11338 TPP 01 Rev A (3/6)

11338 TPP 01 Rev A (4/6)

11338 TPP 01 Rev A (5/6)

11338 TPP 01 Rev A (6/6)

The Ridgeway Trading Estate

Thorney Business Park

Grand Union Canal Slough Arm

Pit

KEY:

- Site Boundary
- 15 Tree Numbers
- Tree Canopies
- Intermittent Group
- Category 'A' RPA
- Category 'B' RPA
- Category 'C' RPA
- 8 Trees to be Removed
- Tree Protection Barrier

Note: Trees 1, 2, 3, 4, 5, 6, 8, 9, 16, 26, 27 and all Groups have been plotted using measurements onsite in conjunction with aerial imagery. Their locations were not recorded on the topographical survey of the site (drawing ref: 105551 X Survey A.dwg).

Note: The RPA footprint for trees 3, 4, 14, 15, 17, 18, 19, 20, 21, 22, 23, 24 and groups 4, 5, 6, 7, 22, 29, 30, 32 have been displaced to allow for the effect of the adopted highway, and existing watercourse. The surface area of the RPA has not been reduced.

Cited from Google Earth

REV	DATE	NOTE	Drawn	Chk'd
A	DEC '24	Revised in accordance with updated survey	JB	n/a

REVISIONS

aspect arboriculture

TITLE
Thorney Lane, Iver
Tree Constraints Plan

CLIENT
Savills

SCALE	DATE	DRAWN
NTS	APR 2022	GW

DRAWING NUMBER	REVISION
11338 TPP 01 Rev A (Overview)	

Based on: IVR-EVO-HY-ZZ-DR-D-0003 P06 Site Boundary.dwg

Default Barrier Specification, cited BS 5837:2012

Key
1 Standard scaffold poles
2 Heavy gauge 2m tall galvanized tube and welded mesh infill panels
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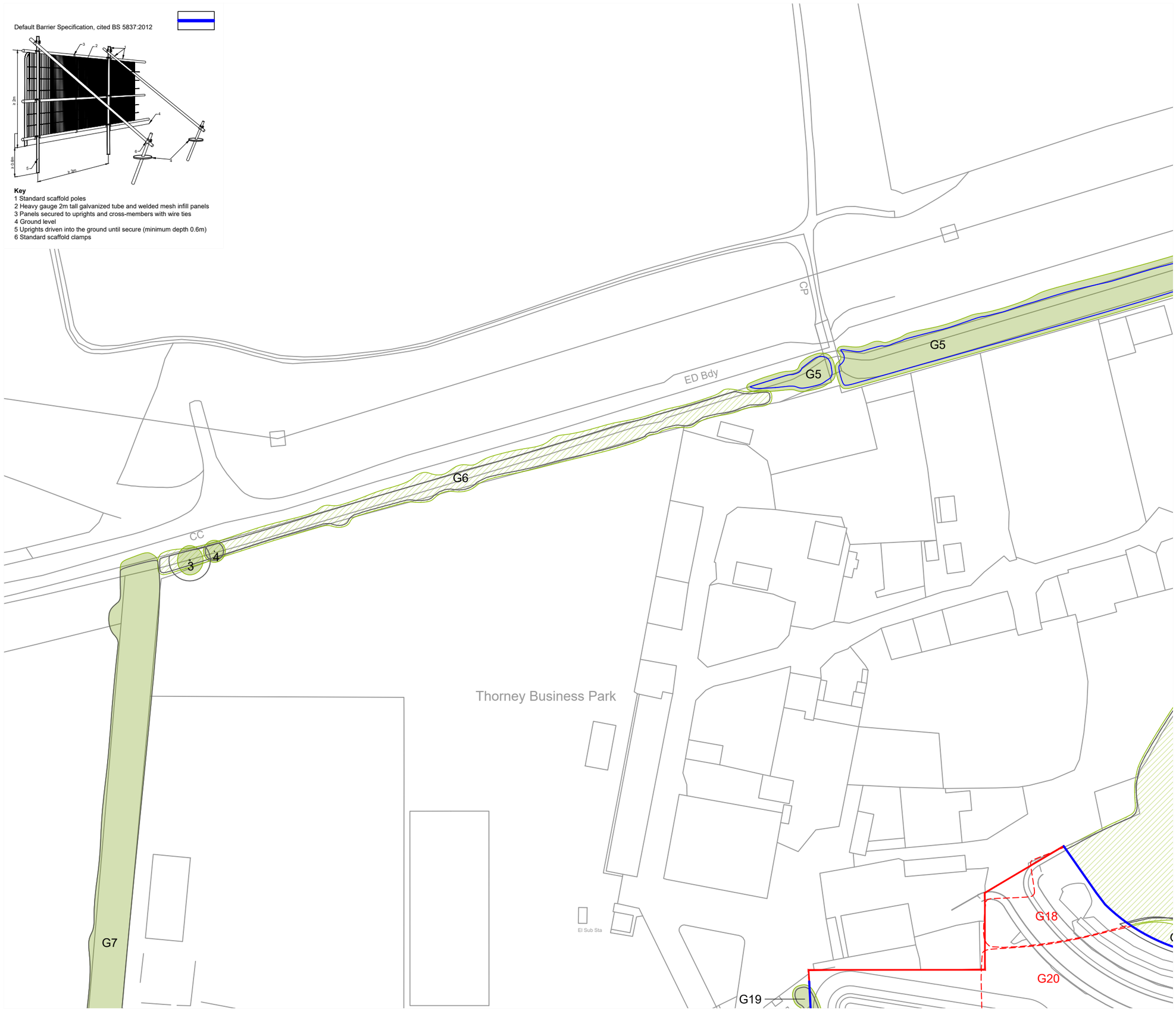
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6m)
6 Standard scaffold clamps



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0m 10m 20m 50m

KEY:

- Site Boundary
- 15 Tree Numbers
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Cited from Google Earth

REV	DATE	NOTE	Drawn	Chk'd
A	DEC '24	Revised in accordance with updated survey	JB	n/a

REVISIONS

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TITLE
Thorney Lane, Iver
Tree Protection Plan

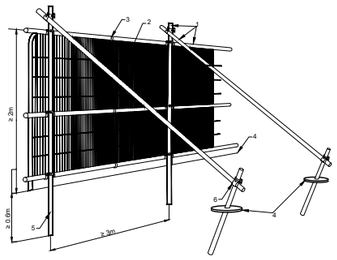
CLIENT
Savills

SCALE	DATE	DRAWN
1:1500 @ A3	APR 2022	GW

DRAWING NUMBER	REVISION
11338 TPP 01 Rev A (1/6)	

Based on: IVR-EVO-HY-ZZ-DR-D-0003 P06 Site Boundary.dwg

Default Barrier Specification, cited BS 5837:2012



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1:1500 @ A3

0m 10m 20m 50m

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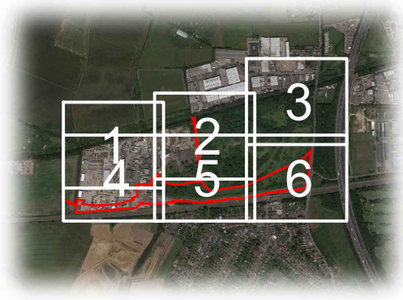

Cited from Google Earth

REV	DATE	NOTE	Drawn	Chk'd
A	DEC '24	Revised in accordance with updated survey	JB	n/a

REVISIONS

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TITLE
Thorney Lane, Iver
Tree Protection Plan

CLIENT
Savills

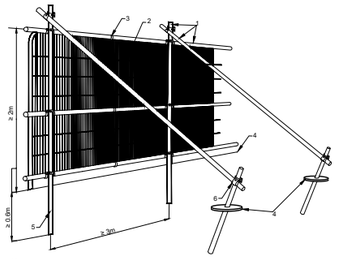
SCALE	DATE	DRAWN
1:1500 @ A3	APR 2022	GW

DRAWING NUMBER
11338 TPP 01 Rev A (2/6)

REVISION

Based on: IVR-EVO-HY-ZZ-DR-D-0003 P06 Site Boundary.dwg

Default Barrier Specification, cited BS 5837:2012



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4 Ground level
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6 Standard scaffold clamps

RIDGE WAY
El Sub Sta
Sub Sta
FB
Path (um)
Drain
THORNEY LANE SOUTH
Gantry
G1
G2
G3
G4
G5
G9
G10
G11
G12
G13
G28
G29
G30
G31
7
17
18
19
20
21
22
23
24

1:1500 @ A3

0m 10m 20m 50m

KEY:

- Site Boundary
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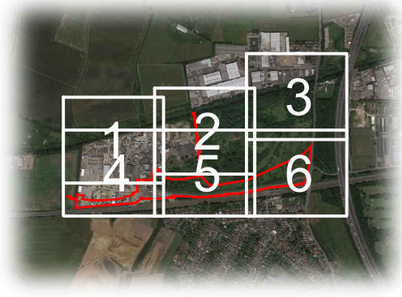

Cited from Google Earth

REV	DATE	NOTE	Drawn	Chk'd
A	DEC '24	Revised in accordance with updated survey	JB	n/a

REVISIONS

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TITLE
Thorney Lane, Iver
Tree Protection Plan

CLIENT
Savills

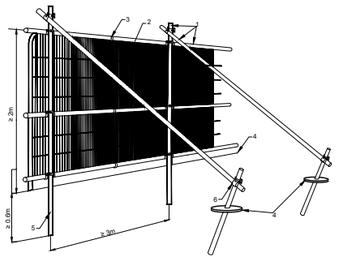
SCALE	DATE	DRAWN
1:1500 @ A3	APR 2022	GW

DRAWING NUMBER
11338 TPP 01 Rev A (3/6)

REVISION

Based on: IVR-EVO-HY-ZZ-DR-D-0003 P06 Site Boundary.dwg

Default Barrier Specification, cited BS 5837:2012



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6 Standard scaffold clamps

G6
G7
G18
G19
G20
G21
G22
Thorney Business Park
El Sub Sta
Hopper
SM
16
14 Removed as of 22/07/2024
15 Removed as of 22/07/2024

1:1500 @ A3

0m 10m 20m 50m

KEY:

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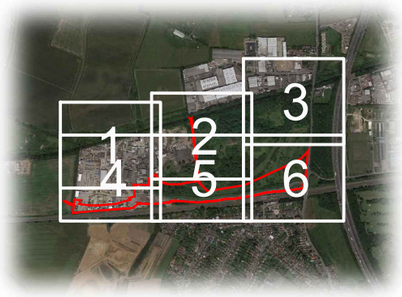

Cited from Google Earth

A REV	DEC '24 DATE	Revised in accordance with updated survey NOTE	JB Drawn	n/a Chk'd

REVISIONS

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Thorney Lane, Iver
Tree Protection Plan

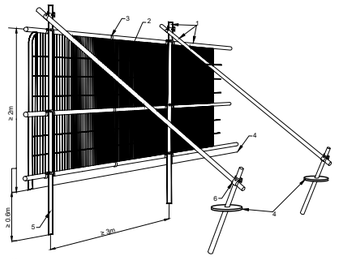
CLIENT
Savills

SCALE	DATE	DRAWN
1:1500 @ A3	APR 2022	GW

DRAWING NUMBER	REVISION
11338 TPP 01 Rev A (4/6)	

Based on: IVR-EVO-HY-ZZ-DR-D-0003 P06 Site Boundary.dwg

Default Barrier Specification, cited BS 5837:2012



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Builders Yard
Pond
Path (um)
El Sub Sta
MP 15.0
SL
BATHURST WALK
79
93
67
53
39
27

G1
G2
G5
G8
G11
G14
G16
G17
G18
G20
G22
G23
G25
G26
G27
10
11
12
13
16
Removed as of 22/07/2024

1:1500 @ A3

0m 10m 20m 50m

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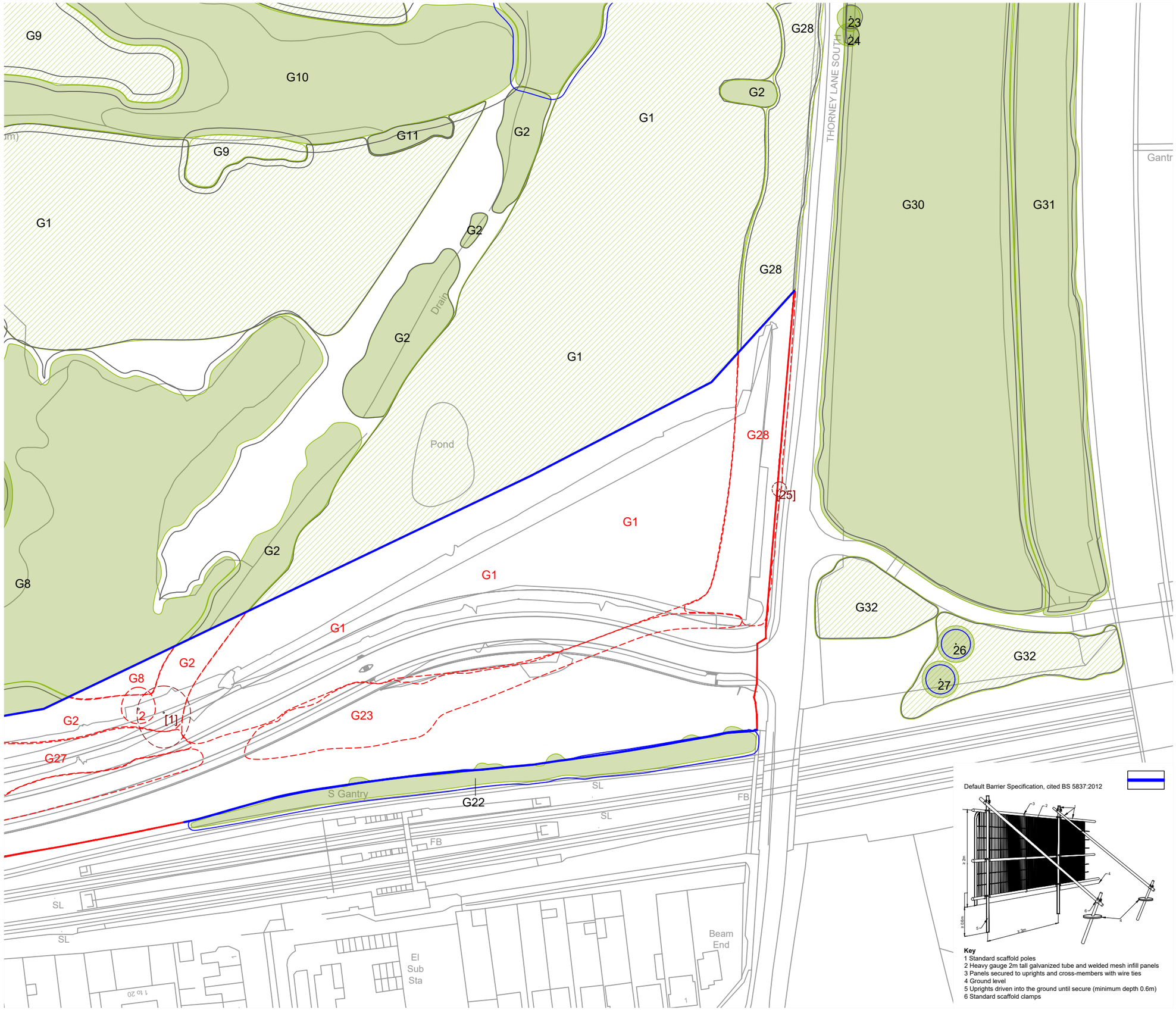
1:1500 @ A3	APR 2022	GW

DRAWING NUMBER	REVISION
11338 TPP 01 Rev A (5/6)	

Based on: IVR-EVO-HY-ZZ-DR-D-0003 P06 Site Boundary.dwg



1:1500 @ A3

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- 15 Tree Numbers
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Note: Trees 1, 2, 3, 4, 5, 6, 8, 9, 16, 26, 27 and all Groups have been plotted using measurements onsite in conjunction with aerial imagery. Their locations were not recorded on the topographical survey of the site (drawing ref: 105551 X Survey A.dwg).

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Default Barrier Specification, cited BS 5837:2012

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DRAWING NUMBER	REVISION
11338 TPP 01 Rev A (6/6)	

Based on: IVR-EVO-HY-ZZ-DR-D-0003 P06 Site Boundary.dwg

APPENDIX B

WORKS AUDITING SCHEDULE (11338 WAS 01)

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 11338_AMS.001 and illustrated on drawing no. 11338_TPP.01 Rev A Tree Protection Plan.	As drawn		
2: Tree Removals and Pruning Works	As drawn		
3: Inspection of tree protection barriers prior to commencement of development works.	As drawn		

APPENDIX C

TREE SURVEY SCHEDULE (11338 TS 01 Rev A)

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BS 5837:2012 Tree Schedule: Thorney Lane, Iver

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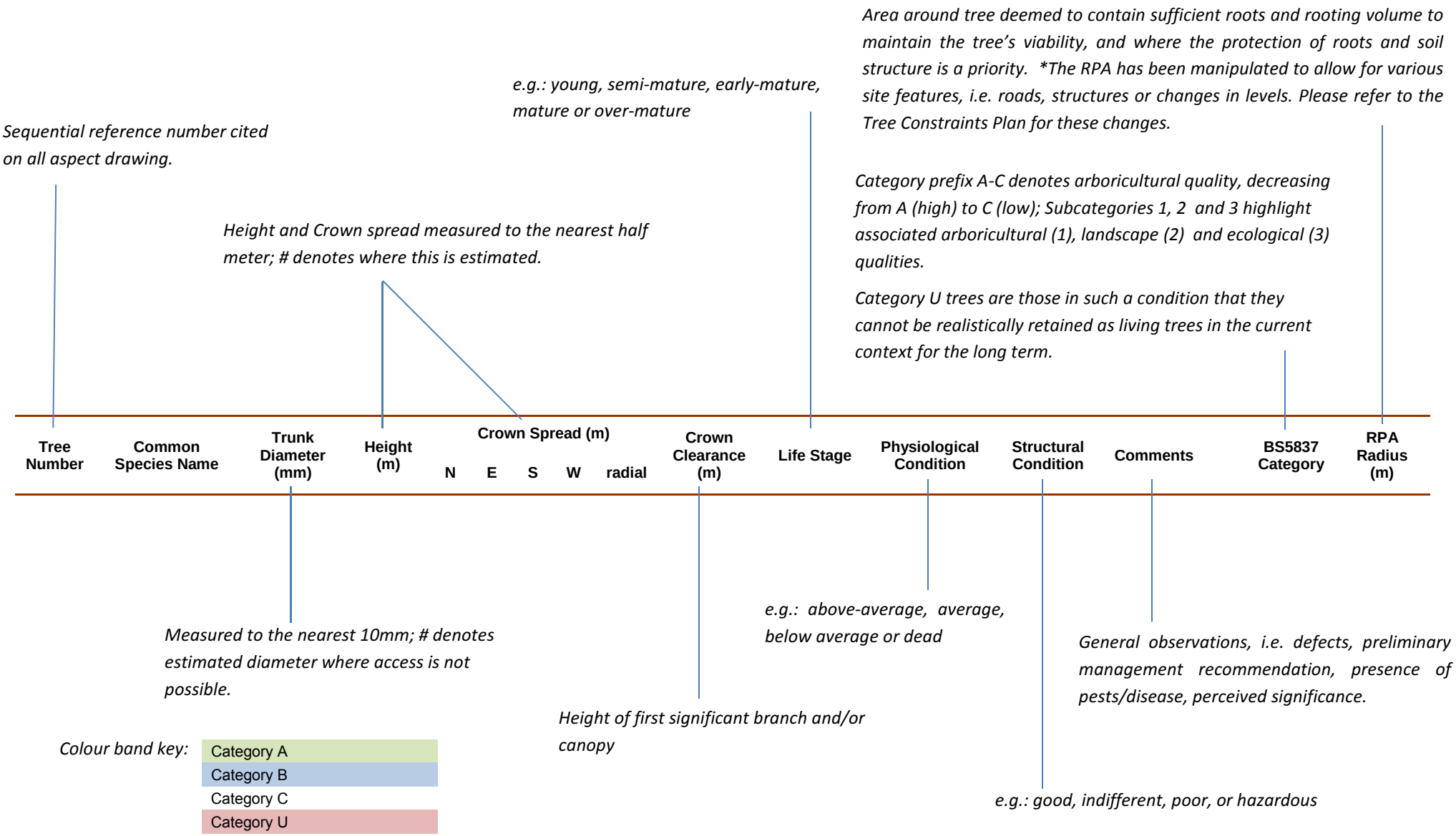
BS5837:2012 Tree Survey: Explanation of Survey Criteria



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)				Radial	First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W									
1	White Willow	470 360 235 175 165 145 #	14	11#	11#	14.5#	11#		0.5	0.5	Early Mature	Below Average	Hazardous	Stem inaccessible due to dense understory Failed at base, 1 no stem remains standing Hazardous structural condition, unsuitable for retention	U	N/A
2	White Willow	480 2*310	16	9#	7#	6#	7#		3	5	Early Mature	Average	Poor	Dominant component of G2 Multi stemmed from ground level, unions tight and included Average internal deadwood Minor epicormic growth Limited access due to dense understory Low arboricultural quality	C1	7.8
3	Goat Willow	360 330 320 230	11.5	6#	5.5	6#	5		0.5	0.5	Early Mature	Below Average	Poor	Dominant component of G6 Multi stemmed from ground level, unions tight and included Failed co-dominant stem to west Above average epicormic growth Dieback to tips Unremarkable example of species	C1	7.5
4	Hawthorn	300#	8					4.5	2.25	2.5	Mature	Average	Indifferent	Dominant component of G6 Established scrub Low arboricultural quality	C12	3.6
5	White Willow	3* 800 700 4* 650 #	23#	22#	17#	22.5#	14.5#		1#	0.5#	Mature	Average	Poor	Stem inaccessible due to dense understory Surveyed from a distance Low arboricultural quality	C1	15
6	Hybrid Black Poplar	660 630 2* 560 540 530 500 300 #	25#	13#	14#	13.5#	16#		1.25#	1#	Mature	Below Average	Poor	Stem inaccessible due to dense understory Surveyed from a distance Low arboricultural quality	C1	15
7	English Oak	370	11	6	7.5	7	6		0.5	0.5	Early Mature	Below Average	Indifferent	Dominant component of G13 Above average minor epicormic growth and internal deadwood Squat canopy form Unremarkable example of species	C1	4.5
8	Ash	280 2* 260 3* 230 200 170 165 160	18	7	8#	8.5	7#		1.75	1.25	Early Mature	Below Average	Poor	Dominant component of G15 Lapsed coppice stool, unions tight and over included Several partially occluded impact wounds to lower stems Dieback to tips and sparse canopy at time of survey Low arboricultural quality	C1	8.4

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								
9	Ash	310 270 240 200 90 85 80	16.5	5.25	8#	4	7.5#		0.75	1	Early Mature	Average	Poor	Dominant component of G15 Lapsed coppice stool, unions tight and over included Several partially occluded impact wounds to lower stems Dieback to tips and sparse canopy at time of survey Low arboricultural quality	C1	5.7
10	Ash	700#	24.5	9#	9#	6.75	8.5		7#	4.25	Mature	Below Average	Indifferent	Established within site boundary Stem inaccessible due to large mound of brash around base Significant scaffold tear out wounds to north at c.4.75m and to east at c.6.5m, exposing heartwood with signs of active decay Above average epicormic growth Dieback to tips Low arboricultural quality	C1	8.4
11	White Willow	850 2* 700 #	24	6#	7#	9#	8.25		2	1	Mature	Below Average	Poor	Established within site boundary Stem inaccessible due to unstable steep embankment Storm damage throughout entire crown Above average epicormic growth Slightly sparse canopy and dieback to tips Low arboricultural quality	C1	15
12	White Willow	950#	22.5	9#	8.25	9	6.25		4	1	Mature	Below Average	Poor	Established within site boundary Stem inaccessible due to unstable steep embankment Storm damage throughout entire crown Above average epicormic growth Slightly sparse canopy and dieback to tips Low arboricultural quality	C1	11.4
13	White Willow	1320#	26	13#	12#	12#	10.5#		4.5#	0.5#	Mature	Below Average	Poor	Stem inaccessible due to dense understory Surveyed from a distance Low arboricultural quality	C1	15
14	Weeping Willow													Removed as of 22/07/2024		
15	Lime													Removed as of 22/07/2024		

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)				Radial	First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W									
16	English Oak	590	16.5	6.75	7	7.25	8		4	1.5	Early Mature	Below Average	Indifferent	Dominant component of G23 Established epicormic growth forming lower secondary canopy Above average internal deadwood and epicormic growth Split forming on primary union at c.5.5m Low arboricultural quality	B2	7.2
17	Lime	380	13	3.5	3#	4.75	4#		1.5	0	Early Mature	Below Average	Poor	Established planting within roadside grass verge Cohesive with G29 Partially Ivy clad Bifurcates from c.3.75m, union tight and included Slightly sparse canopy at time of survey Prominent within views from adjacent road Unremarkable example of the species	C1	4.5
18	Lime	380	14.5	4.5	3#	4.25	5#		1.5	0.25	Early Mature	Below Average	Indifferent	Established planting within roadside grass verge Cohesive with G29 Sparse canopy and dieback to tips Above average internal deadwood Prominent within views from adjacent road Low arboricultural quality	C1	4.5
19	Ash	370	16.5	5	5.75	7#	6#		2.5	3.25	Early Mature	Below Average	Indifferent	Established planting within roadside grass verge Cohesive with G29 Sparse canopy and dieback to tips Above average internal deadwood Prominent within views from adjacent road Low arboricultural quality	C1	4.5
20	Ash	280#	14	4#	3.5#	5#	6#		3#	4.5	Early Mature	Below Average	Indifferent	Established planting within roadside grass verge Stem inaccessible due to narrow verge and close proximity to adjacent road Cohesive with G29 Sparse canopy and dieback to tips Above average internal deadwood Prominent within views from adjacent road Low arboricultural quality	C1	3.3
21	Ash	350#	15	5#	3.25	6#	6.5#		2#	2.25	Early Mature	Below Average	Indifferent	Established planting within roadside grass verge Stem inaccessible due to narrow verge and close proximity to adjacent road Cohesive with G29 Sparse canopy and dieback to tips Above average internal deadwood Prominent within views from adjacent road Low arboricultural quality	C1	4.2
22	English Oak	290#	12.5	3	3.75	7#	6#		1.5	2#	Early Mature	Below Average	Indifferent	Established planting within roadside grass verge Stem inaccessible due to narrow verge and close proximity to adjacent road Cohesive with G29 Sparse canopy and dieback to tips Above average internal deadwood Prominent within views from adjacent road Low arboricultural quality	C1	3.6

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)				Radial	First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W									
23	Ash	350#	14	4.5	4	6	5.5		2.5#	2	Early Mature	Below Average	Indifferent	Established planting within roadside grass verge Stem inaccessible due to narrow verge and close proximity to adjacent road Cohesive with G29 Sparse canopy and dieback to tips Above average internal deadwood Prominent within views from adjacent road Low arboricultural quality	C1	4.2
24	Ash	280#	15.5	5	3.5	4.5	6#		2.5#	0.75	Early Mature	Below Average	Indifferent	Established planting within roadside grass verge Stem inaccessible due to narrow verge and close proximity to adjacent road Cohesive with G29 Basal epicormic growth Sparse canopy and dieback to tips Above average internal deadwood Prominent within views from adjacent road Low arboricultural quality	C1	3.3
25	Elm	250	10.5					3	2.5	0.5	Semi Mature	Dead	Hazardous	Standing dead	U	N/A
26	Sycamore	500#	17					7.5#	2#	1#	Early Mature	Average	Indifferent	Dominant component of G32 Inaccessible, appears offsite within third party land Surveyed from a distance, measurements estimated Structure appears typical for species within current context Forms single mutually supressed and cohesive canopy with T27 Moderate value as cohesive pair	B2	6
27	Sycamore	500#	17					7.5#	2#	1#	Early Mature	Average	Indifferent	Dominant component of G32 Inaccessible, appears offsite within third party land Surveyed from a distance, measurements estimated Structure appears typical for species within current context Forms single mutually supressed and cohesive canopy with T26 Moderate value as cohesive pair	B2	6
G1	Goat Willow Hawthorn Blackthorn Ash Field Maple Sycamore Buddleia	2* 210 200 190 2* 180 160 max 100 3* 85 2* 75 av	3 to 10					6.5 max 3.5 av	0.25 av	0.25 av	Young to Early Mature	Average	Poor	Intermittent parcels of colonising scrub and self-set specimens, majoring on multi stemmed Goat Willow Low arboricultural quality	C12	6 max 2.4 av

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m) N	E	S	W	Radial	First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
G2	Goat Willow Hawthorn Dogwood White Willow Blackthorn Ash Buddleia	4* 160 av	8 av					5.25 av	0.5 to 2.5	0.25 to 2	Young to Early Mature	Below Average to Average	Poor	Intermittent collection of predominantly multi stemmed Hawthorn and Goat Willow, established along embankment of internal ditch Low arboricultural quality	C12	3.9
G3	English Oak White Willow Goat Willow Aspen Hawthorn Hybrid Black Poplar Elder Silver Birch Cherry Ash	450 max 195 av	25 max 13 av					9.5 max 3.25 av	0.5 to 2	0.5 to 4	Young to Early Mature	Below Average to Average	Poor to Indifferent	Cohesive collection majoring on White Willow with frequent early mature English Oak and Ash Frequent failed Goat Willow and White Willow Typically etiolated form within interior Informal footpaths throughout Individually of limited merit, moderate value as collection only	B2	5.4 max 2.4 av
G4	Hawthorn Sycamore Elder Blackthorn Buddleia Goat Willow Ash Cherry Hornbeam Aspen	280 190 160 max 3* 90 av	12 max 6 av					3 av	0.25 av	0.25 av	Young to Early Mature	Average	Indifferent	Cohesive boundary scrub group majoring on Hawthorn with occasional self-set specimens Provides screen of adjacent road Low arboricultural quality	C12	4.5 max 1.8 av
G5	Ash Sycamore Hawthorn Cherry English Oak Holly Goat Willow Elder Damson Apple Rowan Blackthorn Turkey Oak	420 410 280 max 5* 80 av	18 max 9 av					9.5 max 3 av	0.5to 2	0.5 to 1.5	Young to Mature	Below Average to Average	Poor to Indifferent	Cohesive collection established on river embankment majoring on English Oak and Ash with frequent multi stemmed Sycamore Hawthorn dominant understory Individually of limited merit, moderate value as collection only	B2	7.8 max 2.1 av
G6	Hawthorn Buddleia Blackthorn Hawthorn English Oak Damson Elder Field Maple Cherry	540 280 max 3* 70 av	16 max					8 max	0.5 to 1.5	0.5 to 1.5	Young to Early Mature	Average	Indifferent	Intermittent scrub group established on river embankment Low arboricultural quality	C12	7.2 max 1.5 av

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m) N	E	S	W	Radial	First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
G7	Aspen Cherry Hawthorn Apple Buddleia Goat willow Elder English Oak	220 max 110 av	12 max 6 av					3.25 av	0.5 to 1	0.5 to 1	Young to Semi Mature	Below Average to Average	Poor to Indifferent	Cohesive group of boundary buffer plantings Structures typical for species within current context Predominantly readily replaceable at current age Unremarkable collection	C12	2.7 max 1.2 av
G8	Goat Willow Hawthorn English Oak White Willow Ash	445 425 410 365 320 295 # max 205 av	22 max 13 av					9 max 4 av	0.5 av	0.5 av	Young to Early Mature	Below Average to Average	Poor to Indifferent	Cohesive group majoring on multi stemmed Hawthorn and Goat Willow Occasional self-set English Oak and Ash Frequent standing deadwood throughout Unremarkable collection	C12	11.1 max 2.4 av
G9	Hawthorn Silver Birch English Oak Blackthorn Ash Sycamore Goat Willow Dogwood	350 310 240 220 210 170 2* 160 max	16 max 9 av					5 av	0.5 av	0.5 av	Young to Early Mature	Below Average to Average	Poor to Indifferent	Intermittent parcels of Hawthorn and Goat Willow with occasional self-set specimens Multiple failed components within collection Informal footpaths throughout Low arboricultural quality	C12	7.8
G10	White Willow Goat Willow Hawthorn Blackthorn Ash Hybrid Black Poplar	540 500 360 max 400 av	24 max 18 av					6.5 av	0.5 to 8	0.5 to 10	Young to Mature	Below Average to Average	Poor to Indifferent	Cohesive group majoring on White Willow with Hawthorn as understory Majority of White Willow canopies have dieback to tips Multiple failed components within group Unremarkable collection	C12	9.9 max 4.8 av
G11	Blackthorn	75 max	5 max					1 av	0.25 av	0.25 av	Young to Semi Mature	Average	Indifferent	Small intermittent parcels of colonising scrub Low arboricultural quality	C12	0.9
G12	Hawthorn Blackthorn Dogwood Cherry	90 av	12 max 7 av					1.5 av	0.5 av	0.5 av	Young to Early Mature	Average	Indifferent	Intermittent collection majoring on Hawthorn informal footpaths throughout Low arboricultural quality	C12	1.2
G13	Hawthorn	90 av	7 max					1 av	0.5 av	0.5 av	Young to Early Mature	Average	Indifferent	Intermittent parcel of colonising Hawthorn Low arboricultural quality	C12	1.2
G14	Hawthorn Goat Willow Blackthorn Elder	2* 85 av	6.5 av					2 max	0.5 av	0.5 av	Young to Early Mature	Average	Indifferent	Intermittent parcel majoring on Hawthorn with occasional Goat Willow and Blackthorn Low arboricultural quality	C12	1.5

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)				Radial	First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W									
G15	Hawthorn Blackthorn Elder Ash	290 270 2* 190 max 3* 80 av	12.5 max 5 av					5.5 max	0.5 av	0.5 av	Young to Early Mature	Average	Indifferent	Intermittent parcel majoring on Hawthorn with frequent self-set Ash and Elder Low arboricultural quality	C12	5.7 max 1.8 av
G16	Hawthorn Goat Willow Elder Ash	2* 320 185 max 4* 75 av	9.5 max					9 max 3.75 av	0.5 av	0.5 av	Young to Early Mature	Below Average to Average	Poor to Indifferent	Cohesive boundary collection majoring on multi stemmed Goat Willow and Hawthorn Frequent failed components occurring throughout Low arboricultural quality	C12	6 max 1.8 av
G17	Hawthorn White Willow Elder Sycamore Goat Willow	500 370 av	21 max					5.75 av	0.5 to 2	1 av	Early Mature to Mature	Below Average to Average	Poor to Indifferent	Collection majoring on early mature White Willow, significant storm damage and sparse canopies to majority of components Understory made up of colonising scrub Several large collapsed specimens within	C12	7.5
G18	Cherry White Willow Hawthorn Elder Buddleia Silver Birch Goat Willow Sycamore Osier Sycamore	300 290 250 210 170 max 4* 95 av	12.5 max 7 av					3.25 av	0.5 av	0.5 av	Young to Early Mature	Average	Poor to Indifferent	Collection comprised of 3no. Cherries with colonising scrub and self-set specimens as understory Low arboricultural quality	C12	6.6 max 2.4 av
G19	Lawson Cypress	230# av	14 max					4# av	1# av	1.5# av	Semi Mature to Early Mature	Average	Poor to Indifferent	Inaccessible, offsite within neighbouring third party land Cohesive group Structures appear typical for species within current context Unremarkable collection	C12	2.7
G20	Goat Willow Silver Birch English Oak Ash Sycamore White Willow Elder Hawthorn Crack Willow Cherry	550# max 2*165 av	18 max 12 av					4.5 av	0.5 to 2.5	1 av	Young to Early Mature	Below Average to Average	Poor to Indifferent	Established scrub with occasional self-set English Oak, Silver Birch and Ash Structures typical for species within current context Partial removal towards western extent Unremarkable collection	C12	6.6 max 2.7 av
G21	Hawthorn Ash Sycamore Silver Birch Buddleia Goat Willow	100# av	7#					2 av	0.5 av	0.5 av	Young to Semi Mature	Average	Indifferent	Inaccessible, offsite within railway embankment Low arboricultural quality	C12	1.2

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m) N	E	S	W	Radial	First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
G22	Cherry Silver Birch English Oak Goat Willow Buddleia Elder Sycamore Hawthorn Blackthorn Ash	450# max 220# av	13 av					4 # av	0.5 av	0.5 av	Young to Early Mature	Average	Indifferent	Inaccessible, offsite within railway embankment Collection of established self-set specimens Provides partial screen of adjacent rail track Individually of limited merit, conferred moderate value as collective for screening benefits only	B2	5.4 max 2.7 av
G23	Hawthorn Blackthorn Osier Willow Goat Willow Elm English Oak Sycamore Cherry Buddleia Holm Oak White Willow	3*110# av	11.5 av					6 av	0.5 av	0.5 av	Young to Early Mature	Average	Indifferent	Unmanaged boundary collection majoring on Goat Willow and Hawthorn Occasionally intermittent Occasional standing dead Elm Parcels of Japanese Knotweed establishing throughout Low arboricultural quality	C12	2.4
G24	Goat Willow Hawthorn Buddleia Blackthorn	280# max	10 av					3.5 av	0.5 av	0.5 av	Young to Early Mature	Average	Indifferent	Inaccessible, unable to thoroughly inspect Parcel of colonising scrub Low arboricultural quality	C12	3.3
G25	Goat Willow Silver Birch Elder Hawthorn Ash	560# max 4* 85 av	15.5 max 9.5 av					4 av	0.5 av	0.5 av	Young to Early Mature	Below Average to Average	Poor to Indifferent	Intermittent collection majoring on Goat Willow and Silver Birch Multiple failed components occurring throughout Unremarkable collection	C12	6.6 max 2.1 av
G26	Hawthorn Elder Ash Beech Damson Blackthorn	3* 180 av	11 max 6 av					2.5 av	0.5 av	0.5 av	Young to Early Mature	Below Average to Average	Poor to Indifferent	Collection majoring on Hawthorn Low arboricultural quality	C12	3.6
G27	Goat Willow White Willow Hawthorn Elder Ash Buddleia Sycamore Blackthorn Silver Birch Elm	230# max 75 av	10 max					2.5 av	0.5 av	0.5 av	Young to Early Mature	Average	Indifferent	Intermittent parcel of establishing scrub Ash components in decline Low arboricultural quality	C12	2.7 max 0.9 av
G28	Elder Hawthorn Elm Alder Sycamore Rowan	2* 100 av	10 max					4 av	0.5 av	0.5 av	Young to Early Mature	Below Average to Average	Poor to Indifferent	Unmanaged intermittent boundary group comprised of establishing scrub with occasional established specimens Frequent standing dead Elm Provides screen of road to east Low arboricultural quality	C12	1.8

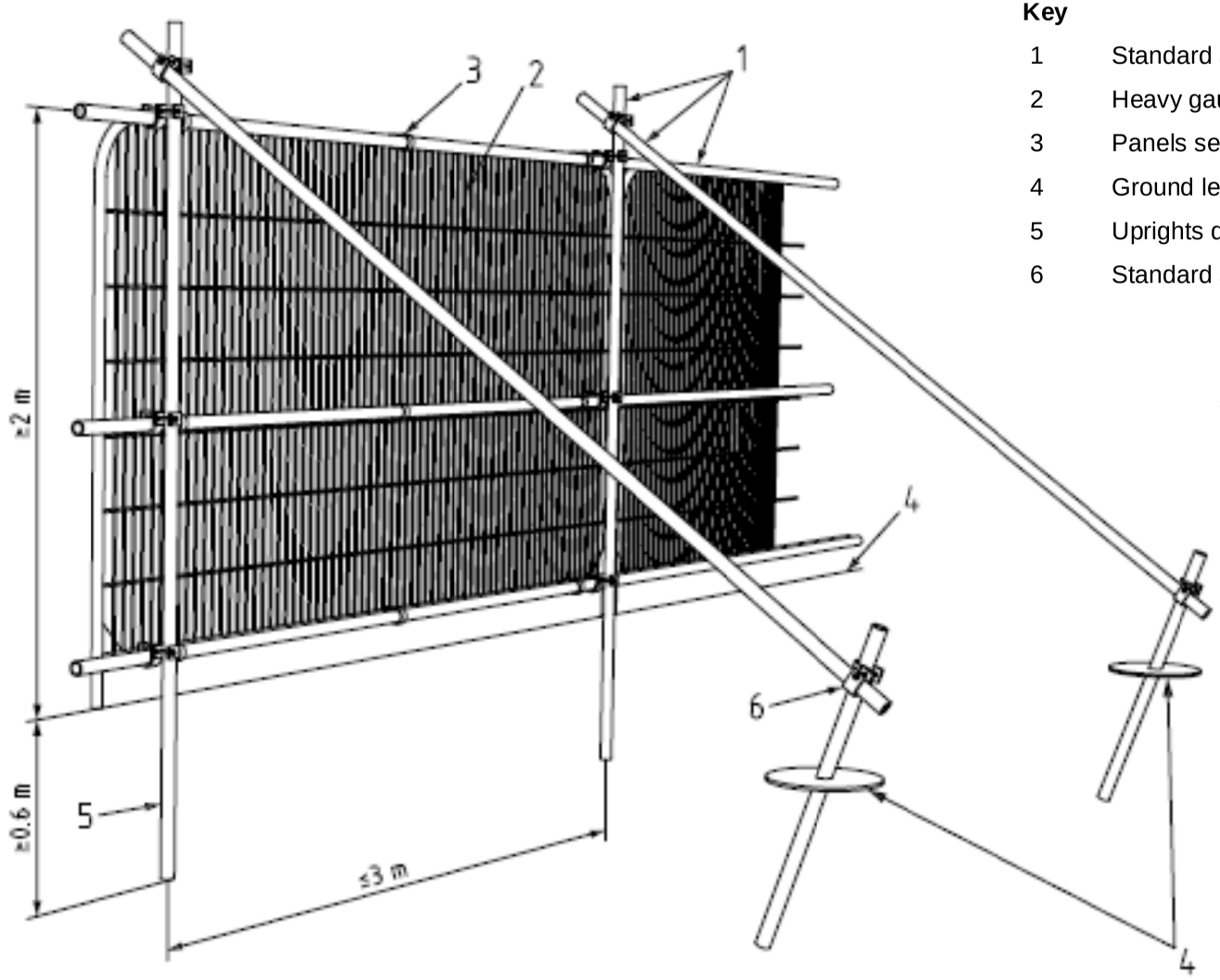
Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	Radial								
G29	Ash Blackthorn Hawthorn Elm	150 max	6.5 max					1.5 av	0.5 av	0.5 av	Young to Semi Mature	Average	Indifferent	Short length of roadside buffer plantings Low arboricultural value, readily replaceable at current age	C12	1.8
G30	Ash English Oak Field Maple White Poplar Alder Hawthorn Elm Aspen Dogwood Cherry	185 av	13 av					3.75	0.5 to 3.5	0.5 to 6.5	Young to Semi Mature	Below Average to Average	Poor to Indifferent	Cohesive group of roadside buffer plantings Majority of Ash appear to have sparse canopies Several English Oak have Oak Processionary Moth infestations Low arboricultural value, predominantly readily replaceable at current age	C12	2.1
G31	Hawthorn Field Maple Cherry Ash Dogwood	120 av	10 av					3 av	0.5 av	0.5 av	Young to Semi Mature	Below Average to Average	Poor to Indifferent	Cohesive group of roadside buffer plantings Situated within embankment of adjacent M25 Provides dense screen of adjacent highway Low arboricultural value, readily replaceable at current age	C12	1.5
G32	Field Maple Hawthorn Sycamore Goat Willow Hazel Blackthorn Ash Apple Damson	3* 115 av	11 max					2.75 av	0.5 av	0.5 av	Young to Semi Mature	Average	Indifferent	Intermittent collection of buffer plantings and colonising scrub Low arboricultural value, predominantly readily replaceable at current age	C12	2.4

APPENDIX D

BARRIER SPECIFICATIONS

Recommended Tree Protection Fencing Specification for this Development

(Source: 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

Notes:

- *Supports are to be sited tree side of the panel front face.*
- *All weather notices should be attached to every fourth panel highlighting the importance of the barrier in its correct position. An example is provided overleaf which may be duplicated for use on this development.*

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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 Arboriculture
West Court
Hardwick Business Park
Noral Way
Banbury
Oxfordshire OX16 2AF

T: 01295 276066
F: 01295 265072
E: info@aspect-arbor.com
W: www.aspect-arbor.com