



# AVArbiculture

## **Arboricultural Survey** **To British Standard 5837 (2012)**

**Client:** Green Acres Architects  
**Location:** Bottom Road, Top Town TT1 4XY

**Date of Survey:** 1st March 2020

**Survey Location:**

Bottom Road  
Top Town  
TT1 4XY

**Survey commissioned by:**

Green Acres Architects  
Tall Trees Avenue  
Burniestoun  
BU1 4TT

**Prepared by:**

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Signed:



Michael J Charkow

Date: 2nd March 2020

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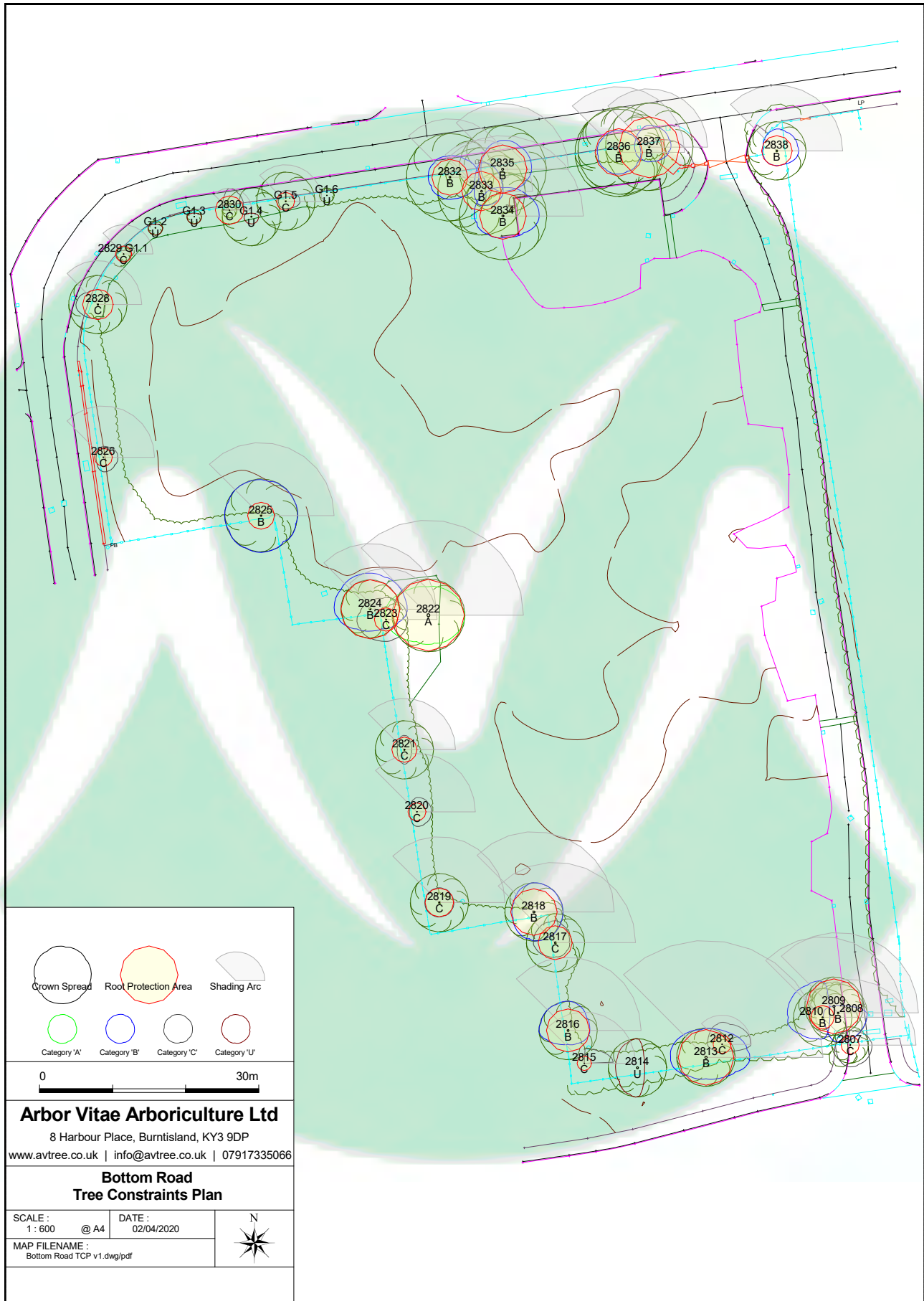
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## 1 Client Brief and Overview

- 1.1 Mike Charkow of Arbor Vitae Arboriculture Ltd was instructed Green Acres Architects to carry out an arboricultural survey of 34 trees at Bottom Road, Top Town TT1 4XY.
- 1.2 No proposed development plans were seen by the author.
- 1.3 The trees are not within a conservation area, nor do any tree preservation orders relate to this site.
- 1.4 The survey was carried out on the 1st of March 2020. Conditions were overcast and dry with a strong breeze.
- 1.5 The tree survey is a tree management and building design tool which aims to survey the trees in their current context. The aims of the tree survey are:
  - to categorise the trees as to their suitability for retention in terms of their quality and value. Quality is based on the tree's condition, and importance in terms of cultural, species, aesthetic or ecological significance.
  - to minimise unnecessary impact to the retained tree population and demonstrate the constraints and opportunities available in the positioning of building and other work activity.

## 2 Tree Constraints Plan





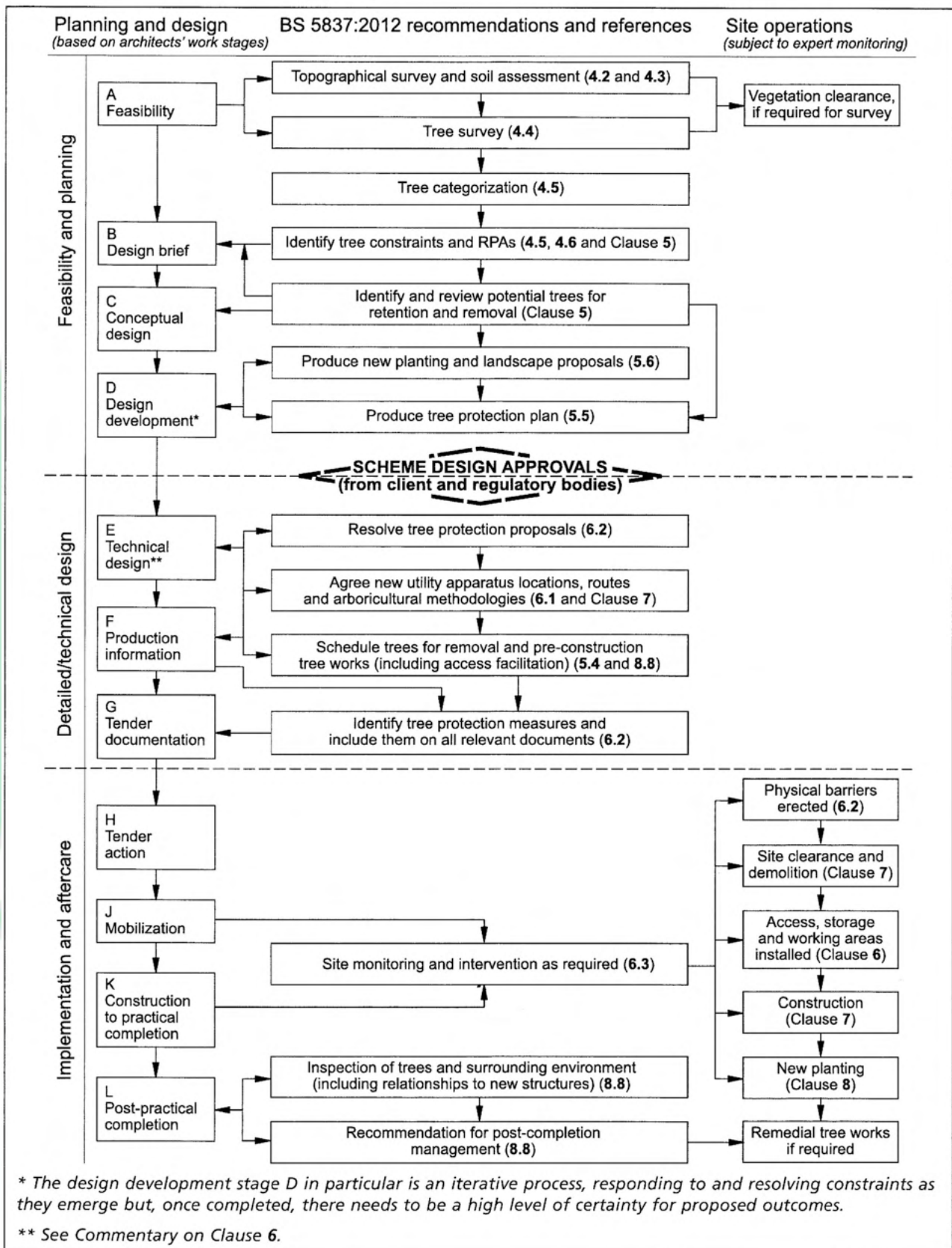
### 3 Survey Findings

- 3.1 34 individual trees were surveyed.
- 3.2 1 tree was categorised as 'A'; 14 as 'B', 13 as 'C' and 6 as 'U'. See [appendix 8](#) for retention category definitions.
- 3.3 No trees were classed as mature, 18 as early-mature and 16 as young.
- 3.4 17 trees were rated as being in good condition, 12 as moderate and 5 as poor.

#### **Condition and Recommendations**

- 3.5 6 trees were recommended for removal due to their condition. These are trees 2809, 2814, G1.2, G1.3, G1.4 and G1.6.
- 3.6 Some of the trees recommended for removal have a pathogenic infection or decay. Two trees are being strangled by tree tie that should have been removed. One tree has suffered large woody root loss, probably during demolition works ([appendix 14](#)).
- 3.7 A number of trees on site have some minor root damage, thought to have been caused during demolition works.
- 3.8 Tree 2821 is growing into a tree stake; the stake should be removed.
- 3.9 See [appendix 11](#) for the full tree survey schedule. See [appendix 13](#) for the prioritised work schedule.

## Appendix 3:

**BS5837 Figure 1: Trees in the Planning Process**

## Appendix 8:

**BS5837 (2012) Table 1**

Table 1 Cascade chart for tree quality assessment			
Category and definition	Criteria (including subcategories where appropriate)		Identification on plan
Trees unsuitable for retention (see Note)			
<b>Category U</b> Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	<ul style="list-style-type: none"><li>Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)</li><li>Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline</li><li>Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality</li></ul> <p><i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i></p>		Trees identified by tree number and coloured circle referring to retention category.
<b>1 Mainly arboricultural qualities      2 Mainly landscape qualities      3 Mainly cultural values, including conservation</b>			
Trees to be considered for retention			
<b>Category A</b> <b>Trees of high quality</b> with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)		<b>Colour</b> Dark Red <b>RGB Code</b> 127-000-000
<b>Category B</b> <b>Trees of moderate quality</b> with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation		<b>Colour</b> Light Green <b>RGB Code</b> 000-255-000
<b>Category C</b> <b>Trees of low quality</b> with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories		<b>Colour</b> Mid Blue <b>RGB Code</b> 000-000-255
		Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	



Appendix 11: **Tree Schedule**

TN	Tag	Species	H	D	AC	V	Condition	Recommendations	U	ERC	RC	1B	SN	SE	SS	SW	CN	CE	CS	CW	Bat	RI
1	2807	Sycamore (Acer pseudoplatanus)	9	177	Y	N	GOOD	NWR		>40	C	1E	2.0	3	3	2	1.0	1	2	2	L	60
2	2808	Sycamore (Acer pseudoplatanus)	11	210	EM	N	GOOD	NWR		>40	B	2E	1.0	4	4	2	6.0	2	2	4	L	60
3	2809	White Willow (Salix alba)	11	305	EM	N	POOR Included bark unions in lower stem. Decay in union at 0.2m.	FELL Remove the tree.	6	<10	U	-	-	-	-	-	-	-	-	-	L	-
4	2810	Hornbeam 'Fastigiata' (Carpinus betulus 'Fastigiata')	11	282	EM	N	GOOD	NWR		>40	B		5.0	1	3	5	4.0	3	2	4	L	60
5	2812	Himalayan Tree-Cotoneaster (Cotoneaster frigidus)	4	100	Y	N	GOOD	NWR		>40	C	2W	3.0	4	1	2	3.0	2	2	2	L	60
6	2813	Common Ash (Fraxinus excelsior)	16	310	EM	N	MODERATE Apparently stable included bark unions throughout, with some fusion.	NWR		>40	B	2E	4.0	6	3	5	2.0	3	4	2	L	60
7	2814	Common Ash (Fraxinus excelsior)	15	250	EM	N	POOR Large stem failure stub at 5m. Large stem wound at 4m.	FELL Remove the tree.	6	<10	U	-	-	-	-	-	-	-	-	-	L	-
8	2815	Sycamore (Acer pseudoplatanus)	7	80	Y	N	MODERATE Large stem sweep to NE.	NWR		>40	C	3N	2.0	4	0	0	3.0	3	-	-	L	60
9	2816	Hornbeam 'Fastigiata' (Carpinus betulus 'Fastigiata')	10	240	EM	N	MODERATE Included bark union at 1m with robust fusion wood and a partially integrated crown.	NWR		>40	B	2N	4.0	3	2	4	2.0	2	2	4	L	60
10	2817	Hornbeam 'Fastigiata' (Carpinus betulus 'Fastigiata')	11	190	EM	N	MODERATE Included bark union at 1m with some fusion wood and a partially integrated crown. The western stem is being propped by a tree stake.	OTHER Remove the tree stake.		20-40	C	2N	3.0	2	2	3	2.0	2	2	3	L	36
11	2818	Hornbeam 'Fastigiata' (Carpinus betulus 'Fastigiata')	11	260	EM	N	MODERATE Included bark union at 1.5m with robust fusion wood and an integrated crown.	NWR		>40	B	1.5N	4.0	4	4	3	2.0	2	2	2	L	60

## Appendix 12: **Root Protection Areas for Retained Trees**

TN	Tag Number	Species	Diameter	Root Protection Area (sq m)	Root Protection Radius (m)	RC
1	2807	Sycamore (Acer pseudoplatanus)	177	14	2.1	C
2	2808	Sycamore (Acer pseudoplatanus)	210	20	2.5	B
4	2810	Hornbeam 'Fastigiata' (Carpinus betulus 'Fastigiata')	282	36	3.4	B
5	2812	Himalayan Tree-Cotoneaster (Cotoneaster frigidus)	100	5	1.2	C
6	2813	Common Ash (Fraxinus excelsior)	310	43	3.7	B
8	2815	Sycamore (Acer pseudoplatanus)	80	3	1.0	C
9	2816	Hornbeam 'Fastigiata' (Carpinus betulus 'Fastigiata')	240	26	2.9	B
10	2817	Hornbeam 'Fastigiata' (Carpinus betulus 'Fastigiata')	190	16	2.3	C
11	2818	Hornbeam 'Fastigiata' (Carpinus betulus 'Fastigiata')	260	31	3.1	B
12	2819	Sycamore (Acer pseudoplatanus)	160	12	1.9	C
13	2821	Cherry species (Prunus sp.)	140	9	1.7	C
14	2820	Poplar species (Populus sp.)	128	7	1.5	C
15	2822	Scots Pine (Pinus sylvestris)	400	72	4.8	A
16	2824	Willow species (Salix sp.)	330	49	4.0	B
17	2823	Apple species (Malus sp.)	206	19	2.5	C
18	2825	Apple species (Malus sp.)	321	47	3.9	B
19	2826	Whitebeam (Sorbus aria)	162	12	1.9	C
20	2828	Common Rowan (Sorbus aucuparia)	170	13	2.0	C
21	2829 G1.1	Japanese Rowan (Sorbus commixta)	90	4	1.1	C
24	2830	Unknown shrub	159	11	1.9	C
26	G1.5	Japanese Rowan (Sorbus commixta)	100	5	1.2	C
28	2832	Whitebeam (Sorbus aria)	200	18	2.4	B
29	2833	Common Rowan (Sorbus aucuparia)	220	22	2.6	B
30	2834	Common Ash (Fraxinus excelsior)	260	31	3.1	B
31	2835	Whitebeam (Sorbus aria)	100	5	1.2	B
32	2836	Common Hornbeam (Carpinus betulus)	339	52	4.1	B
33	2837	Common Hornbeam (Carpinus betulus)	240	26	2.9	B
34	2838	Hornbeam 'Fastigiata' (Carpinus betulus 'Fastigiata')	294	39	3.5	B

### Appendix 13: **Prioritised Work Schedule**

TN	Tag	Species	AC	V	Condition	Recommendations	Bat
<b>Within 3 Months</b>							
27	G1.6	Japanese Rowan (Sorbus commixta)	EM	N	MODERATE The tree has been height reduced. Fireblight infection in one stem.	FELL Remove the tree to prevent the pathogen from spreading.	L
<b>Within 6 Months</b>							
3	2809	White Willow (Salix alba)	EM	N	POOR Included bark unions in lower stem. Decay in union at 0.2m.	FELL Remove the tree.	L
7	2814	Common Ash (Fraxinus excelsior)	EM	N	POOR Large stem failure stub at 5m. Large stem wound at 4m.	FELL Remove the tree.	L
22	G1.2	Japanese Rowan (Sorbus commixta)	Y	N	POOR A tree tie is strangling the leader.	FELL Remove the tree.	L
23	G1.3	Japanese Rowan (Sorbus commixta)	Y	N	POOR A tree tie is strangling the leader. Large stem wound at 1m.	FELL Remove the tree.	L
25	G1.4	Japanese Rowan (Sorbus commixta)	Y	N	POOR Root severance within 1m to south. The tree is leaning to the north.	FELL Remove the tree.	L
<b>Within 12 Months</b>							
13	2821	Cherry species (Prunus sp.)	Y	N	GOOD Growing into a tree stake.	OTHER Remove the tree stake.	L