ARBORICULTURAL
CONSULTANTS & CONTRACTORS

Tree Survey

At

Ham Woods
Llantwit Major

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I have been instructed by Nick Rubenstein of Oota Developments to carry out a survey on trees at Ham Woods, Llantwit Major.

Scope of Report

This Tree Survey has been undertaken within the recommendations of British Standards 5837:2012 and current good arboricultural practice.

The survey entailed a visual inspection from ground level of all trees.

Each tree has been numbered and, where instructed, for future identification on site, have been tagged using small durable metal or plastic tags.

Due to variations of existing ground levels through the site, height dimensions are estimated and are given in metres. Accurate heights, measured with the aid of optical instruments can be provided where instructed.

Trunk/stem diameters are measured at 1.5 metres above ground level, or immediately above the root flare for multi-stemmed trees.

Estimate branch spread is taken in metres from the centre of the trunk, at the four cardinal points of a compass, to achieve an accurate representation of crown shape.

An assessment of a tree's age classification is made in terms of it maturity within the site's landscape.

An assessment of a tree's physiological condition is to be made as good, fair, poor, dead.

Data on the structural condition of the tree should be entered, e.g., collapsing, leaning and the presence of any decay or physical defect should be noted.

Preliminary management recommendations include further investigation of suspected defects that require more detailed assessment and potential for wildlife habitat.

An assessment of a tree's future life expectancy is made as <10, 10-20, 20-40 or >40 etc.

Table 1 – Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate)		
Category U 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	• 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 U category trees (i.e. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) • Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline • 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 NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.		
	1 Mainly arboricultural values	2 Mainly landscape values	3 Mainly cultural values, including conservation
Category A Those of high quality 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 essential components of groups, or of formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation; historical, commemorative or other value (e.g. veteran trees or wood-pasture)
Category B Those of moderate quality 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	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural benefits
Category C Those of low quality with an estimated remaining life expectancy of at least 10years, or young trees with a stem diameter below 150mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	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	Trees with no material conservation or other cultural value

T1	**Sycamore (Acer pseudoplatanus)**
Height	12m
Single/Multi stemmed	Single stem
Stem Diameter	0.54m
Branch Spread	N – 3m E – 2m S – 3m W – 3m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form with extensive die-back throughout crown extending to only 5m above ground level. This specimen is in a declining condition.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T2	**Sycamore (Acer pseudoplatanus)**
Height	11m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.6m
Branch Spread	N – 3m E – 3m S – 3m W – 3m
Height of Crown	3m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Twin stemmed specimen of poor form with extensive die-back throughout upper crown. This specimen is unsuitable for retention.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T3	**Horse Chestnut (Aesculus hippocastanum)**
Height	17m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.9m
Branch Spread	N – 7m E – 7m S – 7m W – 7m
Height of Crown	2m
Age	Mature
Physiological Condition	Poor
Structural Condition	Tree of variable form with extensive decay throughout upper crown extending into main stem. This specimen is hazardous and unsafe for retention.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T4	**Sycamore (Acer pseudoplatanus)**
Height	9m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.4m
Branch Spread	N – 4m E – 4m S – 4m W – 4m
Height of Crown	0m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form with extensive die-back throughout upper crown. This specimen is unsuitable for retention.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T5	**Horse Chestnut (Aesculus hippocastanum)**
Height	16m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.8m
Branch Spread	N – 2m E – 8m S – 8m W – 3m
Height of Crown	0m
Age	Mature
Physiological Condition	Poor
Structural Condition	Multi stemmed specimen of poor form with extensive cracking throughout main stems and major limbs indicating that this specimen is suffering from bleeding canker disease
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T6	**Horse Chestnut (Aesculus hippocastanum)**
Height	17m
Single/Multi stemmed	Single stem
Stem Diameter	0.66m
Branch Spread	N – 7m E – 8m S – 3m W – 5m
Height of Crown	2m
Age	Mature
Physiological Condition	Poor
Structural Condition	Tree of reasonable form with evidence of decay at base of main stem possibly associated with raising of ground levels. This specimen is unsafe for retention.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T7	**Sycamore (Acer pseudoplatanus)**
Height	9m
Single/Multi stemmed	Single stem
Stem Diameter	0.33m
Branch Spread	N – 3m E – 3m S – 3m W – 3m
Height of Crown	1m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form with extensive squirrel damage throughout upper crown
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T8	**Oak (Quercus robur)**
Height	14m
Single/Multi stemmed	Single stem
Stem Diameter	0.47m
Branch Spread	N – 0m E – 0m S – 0m W – 6m
Height of Crown	8m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form with crown developed on western side only. Extensive die-back throughout upper crown.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T9	**Oak (Quercus robur)**
Height	15m
Single/Multi stemmed	Single stem
Stem Diameter	0.49m
Branch Spread	N – 6m E – 6m S – 6m W – 6m
Height of Crown	8m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of reasonable form with extensive die-back and thinning throughout upper crown possibly associated with previous raising of ground levels
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U
T10	**Horse Chestnut (Aesculus hippocastanum)**
Height	13m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.7m
Branch Spread	N – 9m E – 7m S – 7m W – 4m
Height of Crown	1m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Multi stemmed specimen of poor form with extensive splitting and cracking on major limbs and main stem possibly associated with raising of ground levels
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U
T11	**Sycamore (Acer pseudoplatanus)**
Height	13m
Single/Multi stemmed	Single stem
Stem Diameter	0.41m
Branch Spread	N – 8m E – 3m S – 2m W – 3m
Height of Crown	5m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with slightly misshapen upper crown. Some evidence of squirrel damage at base of main stem.
Prel. Man. Recommendations	Monitor for stability
Est. Remaining Contribution	10-20
Category	C

T12	**Sycamore (Acer pseudoplatanus)**
Height	11m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.6m
Branch Spread	N – 6m E – 6m S – 6m W – 6m
Height of Crown	1m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Multi stemmed specimen of variable form
Prel. Man. Recommendations	No action required at this time
Est. Remaining Contribution	10-20
Category	C

T13	**Sycamore (Acer pseudoplatanus)**
Height	9m
Single/Multi stemmed	Single stem
Stem Diameter	0.38m
Branch Spread	N – 12m E – 0m S – 0m W – 0m
Height of Crown	4m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form leaning extensively to the north
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T14	**Ash (Fraxinus excelsior)**
Height	14m
Single/Multi stemmed	Single stem
Stem Diameter	0.44m
Branch Spread	N – 4m E – 1m S – 2m W – 3m
Height of Crown	5m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form with extensive die-back throughout upper crown
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T15	**Ash (Fraxinus excelsior)**
Height	13m
Single/Multi stemmed	Single stem
Stem Diameter	0.69m
Branch Spread	N – 0m E – 0m S – 0m W – 9m
Height of Crown	7m
Age	Mature
Physiological Condition	Poor
Structural Condition	Tree of poor form. Main stem has failed at 8m leading to extensive decay extending into main stem.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T16	**Sycamore (Acer pseudoplatanus)**
Height	14m
Single/Multi stemmed	Single stem
Stem Diameter	0.63m
Branch Spread	N – 5m E – 6m S – 2m W – 4m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form with extensive die-back in upper crown and decay extending throughout major limbs and into main stem. This specimen is unsuitable for retention.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T17	**Sycamore (Acer pseudoplatanus)**
Height	17m
Single/Multi stemmed	Single stem
Stem Diameter	0.84m
Branch Spread	N – 8m E – 8m S – 8m W – 8m
Height of Crown	3m
Age	Mature
Physiological Condition	Poor
Structural Condition	Tree of reasonable form with massive basal decay. Extensive cavities at base indicate that this specimen is unsafe for retention.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T18	**Sycamore (Acer pseudoplatanus)**
Height	14m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.9m
Branch Spread	N – 10m E – 2m S – 4m W – 6m
Height of Crown	3m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with evidence of thinning and die-back throughout crown
Prel. Man. Recommendations	Monitor for stability
Est. Remaining Contribution	10-20
Category	C
T19	**Sycamore (Acer pseudoplatanus)**
Height	11m
Single/Multi stemmed	Single stem
Stem Diameter	0.41m
Branch Spread	N – 4m E – 2m S – 2m W – 3m
Height of Crown	5m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of reasonable form with evidence of basal decay
Prel. Man. Recommendations	Monitor for stability
Est. Remaining Contribution	10-20
Category	C
T20	**DEAD**
T21	**DEAD**

T22	**Sycamore (Acer pseudoplatanus)**
Height	13m
Single/Multi stemmed	Single stem
Stem Diameter	0.41m
Branch Spread	N – 5m E – 0m S – 5m W – 5m
Height of Crown	4m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with crown more heavily developed on southern side
Prel. Man. Recommendations	Monitor for stability
Est. Remaining Contribution	10-20
Category	C

T23	**Ash (Fraxinus excelsior)**
Height	19m
Single/Multi stemmed	Single stem
Stem Diameter	0.8m
Branch Spread	N – 7m E – 8m S – 0m W – 3m
Height of Crown	10m
Age	Mature
Physiological Condition	Poor
Structural Condition	Tree of poor form with massive split and associated decay on main stem at 2m. This specimen is at risk of failure.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T24	**Sycamore (Acer pseudoplatanus)**
Height	16m
Single/Multi stemmed	Single stem
Stem Diameter	0.74m
Branch Spread	N – 6m E – 6m S – 6m W – 6m
Height of Crown	6m
Age	Mature
Physiological Condition	Fair
Structural Condition	Tree of reasonable form. Main stem colonised by ivy thus preventing full inspection.
Prel. Man. Recommendations	Sever ivy at base. Monitor for health and stability particularly if adjacent specimens are removed.
Est. Remaining Contribution	20-40
Category	B

T25	**Sycamore (Acer pseudoplatanus)**
Height	16m
Single/Multi stemmed	Single stem
Stem Diameter	0.58m
Branch Spread	N – 5m E – 5m S – 0m W – 3m
Height of Crown	3m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with crown more heavily developed on northern side. Main stem heavily colonised by ivy thus preventing full inspection.
Prel. Man. Recommendations	Sever ivy at base. Monitor for health.
Est. Remaining Contribution	10-20
Category	C
T26	**Elm (Ulmus spp)**
Height	11m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.45m
Branch Spread	N – 5m E – 5m S – 5m W – 5m
Height of Crown	1m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form that is at risk of Dutch Elm disease
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C
T27	**DEAD**
T28	**Sycamore (Acer pseudoplatanus)**
Height	14m
Single/Multi stemmed	Single stem
Stem Diameter	0.39m
Branch Spread	N – 4m E – 4m S – 4m W – 4m
Height of Crown	5m
Age	Middle aged
Physiological Condition	Fair
Structural Condition	Tree of reasonable form sited on river bank
Prel. Man. Recommendations	Monitor for stability
Est. Remaining Contribution	20-40
Category	B

T29	**DEAD**
T30	**Elm (Ulmus spp)**
Height	13m
Single/Multi stemmed	Single stem
Stem Diameter	0.41m
Branch Spread	N – 4m E – 4m S – 4m W – 4m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with evidence of commencement of Dutch Elm disease
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C
T31	**Ash (Fraxinus excelsior)**
Height	13m
Single/Multi stemmed	Single stem
Stem Diameter	0.42m
Branch Spread	N – 4m E – 4m S – 4m W – 4m
Height of Crown	8m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form. Evidence of increase in ground levels which may have led to some die-back in upper crown.
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C
T32	**Sycamore (Acer pseudoplatanus)**
Height	11m
Single/Multi stemmed	Single stem
Stem Diameter	0.38m
Branch Spread	N – 3m E – 3m S – 3m W – 3m
Height of Crown	5m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form with extensive squirrel damage throughout crown. This specimen is unsuitable for retention.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T33	**Douglas Fir (Pseudotsuga menziesii)**
Height	15m
Single/Multi stemmed	Single stem
Stem Diameter	0.44m
Branch Spread	N – 3m E – 3m S – 3m W – 3m
Height of Crown	5m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form with extensive die-back throughout crown
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T34	**Sycamore (Acer pseudoplatanus)**
Height	16m
Single/Multi stemmed	Single stem
Stem Diameter	0.45m
Branch Spread	N – 5m E – 5m S – 5m W – 5m
Height of Crown	4m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form. Main stem divides at 2m leading to twin stemmed mid crown. Evidence of squirrel damage throughout crown.
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C

T35	**Elm (Ulmus spp)**
Height	13m
Single/Multi stemmed	Single stem
Stem Diameter	0.39m
Branch Spread	N – 0m E – 4m S – 6m W – 3m
Height of Crown	3m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of variable form with evidence of severe Dutch Elm disease
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T36	**DEAD**
T37	**Beech (Fagus sylvatica)**
Height	17m
Single/Multi stemmed	Single stem
Stem Diameter	0.48m
Branch Spread	N – 0m E – 0m S – 11m W – 0m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form leaning extensively to south. Evidence of basal decay possibly associated with raising of ground levels. This specimen is unsuitable for retention.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U
T38	**Beech (Fagus sylvatica)**
Height	19m
Single/Multi stemmed	Single stem
Stem Diameter	0.87m
Branch Spread	N – 9m E – 9m S – 9m W – 9m
Height of Crown	6m
Age	Mature
Physiological Condition	Poor
Structural Condition	Tree of poor form with massive decay on main stem at 2m. This specimen is unsafe for retention.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T39	**Beech (Fagus sylvatica)**
Height	19m
Single/Multi stemmed	Single stem
Stem Diameter	0.66m
Branch Spread	N – 3m E – 4m S – 2m W – 5m
Height of Crown	6m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form. Main stem divides at 2m with evidence of severe inclusion within this lower fork. This specimen is at risk of failure.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

G40	**Group of Beech (Fagus sylvatica)**
Height	20m
Single/Multi stemmed	Single stem
Stem Diameter	0.6m
Branch Spread	N – 8m E – 8m S – 8m W – 8m
Height of Crown	3m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Trees of variable form that will be excessively exposed due to removal of adjacent specimens. These trees have structural defects that indicate they are unsafe for retention.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T41	**DEAD**

G42	**Group of Sycamore (Acer pseudoplatanus) and Ash (Fraxinus excelsior)**
Height	Up to 12m
Single/Multi stemmed	Single and multi stemmed
Stem Diameter	Up to 0.4m
Branch Spread	N – 5m E – 5m S – 5m W – 5m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Trees of generally reasonable form with some minor die-back in upper crowns.
Prel. Man. Recommendations	Monitor for stability and health
Est. Remaining Contribution	10-20
Category	C
T43	**DEAD**
T44	**DEAD**
T45	**Elm (Ulmus spp)**
Height	16m
Single/Multi stemmed	Single stem
Stem Diameter	0.51m
Branch Spread	N – 8m E – 2m S – 4m W – 5m
Height of Crown	5m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of reasonable form with evidence of slight thinning of crown which may indicate commencement of Dutch Elm disease
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C

T46	**Ash (Fraxinus excelsior)**
Height	19m
Single/Multi stemmed	Single stem
Stem Diameter	0.74m
Branch Spread	N – 4m E – 8m S – 9m W – 4m
Height of Crown	9m
Age	Mature
Physiological Condition	Poor
Structural Condition	Tree of variable form with massive decay throughout main stems. This specimen is at risk of failure.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

G47	**Group of 2 Sycamore (Acer pseudoplatanus)**
Height	17m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.7m
Branch Spread	N – 3m E – 3m S – 3m W – 3m
Height of Crown	6m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Trees of poor form with extensive die-back throughout crowns. Some major limbs have already failed.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T48	**Sycamore (Acer pseudoplatanus)**
Height	17m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.7m
Branch Spread	N – 7m E – 7m S – 7m W – 7m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Multi stemmed specimen sited on bank of river
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C

G49	**Group of Horse Chestnut (Aesculus hippocastanum)**
Height	15m
Single/Multi stemmed	Single stem
Stem Diameter	0.3m
Branch Spread	N – 5m E – 5m S – 5m W – 5m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Trees of poor form with extensive decay throughout crowns
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T50	**Ash (Fraxinus excelsior)**
Height	11m
Single/Multi stemmed	Single stem
Stem Diameter	0.38m
Branch Spread	N – 9m E – 0m S – 0m W – 0m
Height of Crown	4m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	This specimen is partially collapsed and hung-up in adjacent trees
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T51	**Sycamore (Acer pseudoplatanus)**
Height	11m
Single/Multi stemmed	Single stem
Stem Diameter	0.54m
Branch Spread	N – 5m E – 5m S – 2m W – 3m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form with massive basal decay
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T52	**Horse Chestnut (Aesculus hippocastanum)**
Height	20m
Single/Multi stemmed	Single stem
Stem Diameter	0.96m
Branch Spread	N – 8m E – 9m S – 10m W – 9m
Height of Crown	3m
Age	Mature
Physiological Condition	Poor
Structural Condition	Notable specimen of reasonable form leaning slightly to south-east. Evidence of bleeding lesions and potential basal decay. Evidence of severe storm damage in lower crown which has led to commencement of decay. Evidence of large cavities in mid crown which may lead to major structural failure. This specimen is unsuitable for retention.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T53	**Horse Chestnut (Aesculus hippocastanum)**
Height	20m
Single/Multi stemmed	Single stem
Stem Diameter	0.1m
Branch Spread	N – 9m E – 9m S – 9m W – 9m
Height of Crown	4m
Age	Mature
Physiological Condition	Poor
Structural Condition	Tree of variable form with massive basal decay. This specimen is at risk of failure.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T54	**Horse Chestnut (Aesculus hippocastanum)**
Height	14m
Single/Multi stemmed	Single stem
Stem Diameter	0.74m
Branch Spread	N – 5m E – 5m S – 5m W – 5m
Height of Crown	3m
Age	Mature
Physiological Condition	Poor
Structural Condition	Tree of poor form. Main stem has failed at approximately 7m leading to extensive decay in main stem. This specimen is unsafe for retention.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T55	**Horse Chestnut (Aesculus hippocastanum)**
Height	18m
Single/Multi stemmed	Single stem
Stem Diameter	0.68m
Branch Spread	N – 4m E – 4m S – 4m W – 4m
Height of Crown	2m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with notable twist in main stem at approximately 8m. This specimen may become at risk of failure particularly is adjacent trees are removed for safety reasons.
Prel. Man. Recommendations	Monitor for stability
Est. Remaining Contribution	10-20
Category	C

T56	**Sycamore (Acer pseudoplatanus)**
Height	14m
Single/Multi stemmed	Single stem
Stem Diameter	0.74m
Branch Spread	N – 5m E – 5m S – 5m W – 5m
Height of Crown	3m
Age	Mature
Physiological Condition	Poor
Structural Condition	Tree of poor form with massive decay throughout base of main stem and in mid crown. This specimen is at risk of failure.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T57	**Horse Chestnut (Aesculus hippocastanum)**
Height	19m
Single/Multi stemmed	Single stem
Stem Diameter	0.64m
Branch Spread	N – 5m E – 5m S – 5m W – 5m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of reasonable form with massive basal decay
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T58	**Horse Chestnut (Aesculus hippocastanum)**
Height	14m
Single/Multi stemmed	Single stem
Stem Diameter	0.46m
Branch Spread	N – 4m E – 4m S – 4m W – 4m
Height of Crown	4m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form. Main stem divides at 4m leading to multi stemmed mid crown. Evidence of severe decay within these lower forks.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T59	**Elm (Ulmus spp)**
Height	11m
Single/Multi stemmed	Single stem
Stem Diameter	0.45m
Branch Spread	N – 5m E – 5m S – 5m W – 5m
Height of Crown	3m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of variable form with evidence of severe Dutch Elm disease throughout crown
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T60	**Horse Chestnut (Aesculus hippocastanum)**
Height	15m
Single/Multi stemmed	Single stem
Stem Diameter	0.49m
Branch Spread	N – 5m E – 5m S – 5m W – 5m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of reasonable form with extensive basal decay. This specimen is unsafe for retention in relation to adjacent highway.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T61	**Horse Chestnut (Aesculus hippocastanum)**
Height	18m
Single/Multi stemmed	Single stem
Stem Diameter	0.77m
Branch Spread	N – 0m E – 5m S – 10m W – 2m
Height of Crown	1m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with crown more heavily developed on southern side
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C

T62	**Horse Chestnut (Aesculus hippocastanum)**
Height	18m
Single/Multi stemmed	Single stem
Stem Diameter	0.72m
Branch Spread	N – 9m E – 3m S – 1m W – 7m
Height of Crown	2m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of reasonable form. Main stem heavily colonised by ivy thus preventing full inspection.
Prel. Man. Recommendations	Sever ivy at base. Monitor for health.
Est. Remaining Contribution	20-40
Category	C

T63	**Ash (Fraxinus excelsior)**
Height	18m
Single/Multi stemmed	Single stem
Stem Diameter	0.77m
Branch Spread	N – 0m E – 1m S – 7m W – 6m
Height of Crown	8m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form. Old mechanical wound on main stem may have led to commencement of basal decay.
Prel. Man. Recommendations	Monitor for health with a view to undertaking some form of crown reduction in the foreseeable future
Est. Remaining Contribution	10-20
Category	C
T64	**Ash (Fraxinus excelsior)**
Height	16m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.5m
Branch Spread	N – 1m E – 5m S – 6m W – 5m
Height of Crown	6m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Twin stemmed specimen of variable form. Main stems heavily colonised by ivy thus preventing full inspection.
Prel. Man. Recommendations	Sever ivy at base. Monitor for health.
Est. Remaining Contribution	10-20
Category	C
T65	**Sycamore (Acer pseudoplatanus)**
Height	13m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.4m
Branch Spread	N – 2m E – 2m S – 2m W – 2m
Height of Crown	6m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Twin stemmed specimen of variable form with extensive die-back throughout crown
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T66	**Ash (Fraxinus excelsior)**
Height	17m
Single/Multi stemmed	Single stem
Stem Diameter	0.67m
Branch Spread	N – 8m E – 5m S – 3m W – 5m
Height of Crown	8m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with main stem leaning slightly to east. Evidence of previous storm damage in upper crown which has led to development of new branch growth which may be weakly joined to old wood.
Prel. Man. Recommendations	Monitor for stability
Est. Remaining Contribution	10-20
Category	C
T67	**Ash (Fraxinus excelsior)**
Height	13m
Single/Multi stemmed	Single stem
Stem Diameter	0.41m
Branch Spread	N – 6m E – 6m S – 6m W – 6m
Height of Crown	5m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form. Main stem divides at 4m leading to twin stemmed mid crown. Main stem heavily colonised by ivy thus preventing full inspection.
Prel. Man. Recommendations	Sever ivy at base
Est. Remaining Contribution	10-20
Category	C

T68	**Sycamore (Acer pseudoplatanus)**
Height	17m
Single/Multi stemmed	Single stem
Stem Diameter	0.8m
Branch Spread	N – 8m E – 8m S – 8m W – 8m
Height of Crown	4m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form. Main stem divides at 2m leading to twin stemmed mid crown. Main stem heavily colonised by ivy thus preventing full inspection. Evidence of slight thinning of crown.
Prel. Man. Recommendations	Sever ivy at base. Monitor for health.
Est. Remaining Contribution	10-20
Category	C
G69	**DEAD**
T70	**DEAD**
T71	**Sycamore (Acer pseudoplatanus)**
Height	13m
Single/Multi stemmed	Single stem
Stem Diameter	0.45m
Branch Spread	N – 3m E – 3m S – 3m W – 3m
Height of Crown	6m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of variable form with extensive die-back throughout upper crown. This specimen is in a deteriorating condition and unsuitable for retention.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T72	**Sycamore (Acer pseudoplatanus)**
Height	15m
Single/Multi stemmed	Single stem
Stem Diameter	0.52m
Branch Spread	N – 3m E – 3m S – 3m W – 3m
Height of Crown	7m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form with extensive die-back throughout upper crown
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T73	**Horse Chestnut (Aesculus hippocastanum)**
Height	18m
Single/Multi stemmed	Single stem
Stem Diameter	0.68m
Branch Spread	N – 8m E – 4m S – 1m W – 4m
Height of Crown	2m
Age	Mature
Physiological Condition	Poor
Structural Condition	Tree of variable form with crown more heavily developed on northern side. Evidence of die-back in upper crown. This specimen will be at risk of failure due to removal of adjacent dead and dying trees.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T74	**Horse Chestnut (Aesculus hippocastanum)**
Height	12m
Single/Multi stemmed	Single stem
Stem Diameter	0.58m
Branch Spread	N – 5m E – 5m S – 5m W – 5m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form with extensive die-back throughout crown
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T75	**Ash (Fraxinus excelsior)**
Height	23m
Single/Multi stemmed	Single stem
Stem Diameter	0.83m
Branch Spread	N – 9m E – 9m S – 9m W – 9m
Height of Crown	8m
Age	Mature
Physiological Condition	Fair
Structural Condition	Notable specimen of reasonable form
Prel. Man. Recommendations	Monitor for stability
Est. Remaining Contribution	>40
Category	B

T76	**Horse Chestnut (Aesculus hippocastanum)**
Height	15m
Single/Multi stemmed	Single stem
Stem Diameter	0.44m
Branch Spread	N – 6m E – 6m S – 6m W – 6m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of variable form with evidence of bleeding lesions on main stem indicating that this specimen is diseased
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T77	**Ash (Fraxinus excelsior)**
Height	23m
Single/Multi stemmed	Single stem
Stem Diameter	0.94m
Branch Spread	N – 6m E – 7m S – 8m W – 11m
Height of Crown	6m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Notable specimen of reasonable form. Evidence of die-back throughout crown.
Prel. Man. Recommendations	Prune to remove major deadwood. Undertake 20% overall crown reduction. Monitor for health.
Est. Remaining Contribution	20-40
Category	C

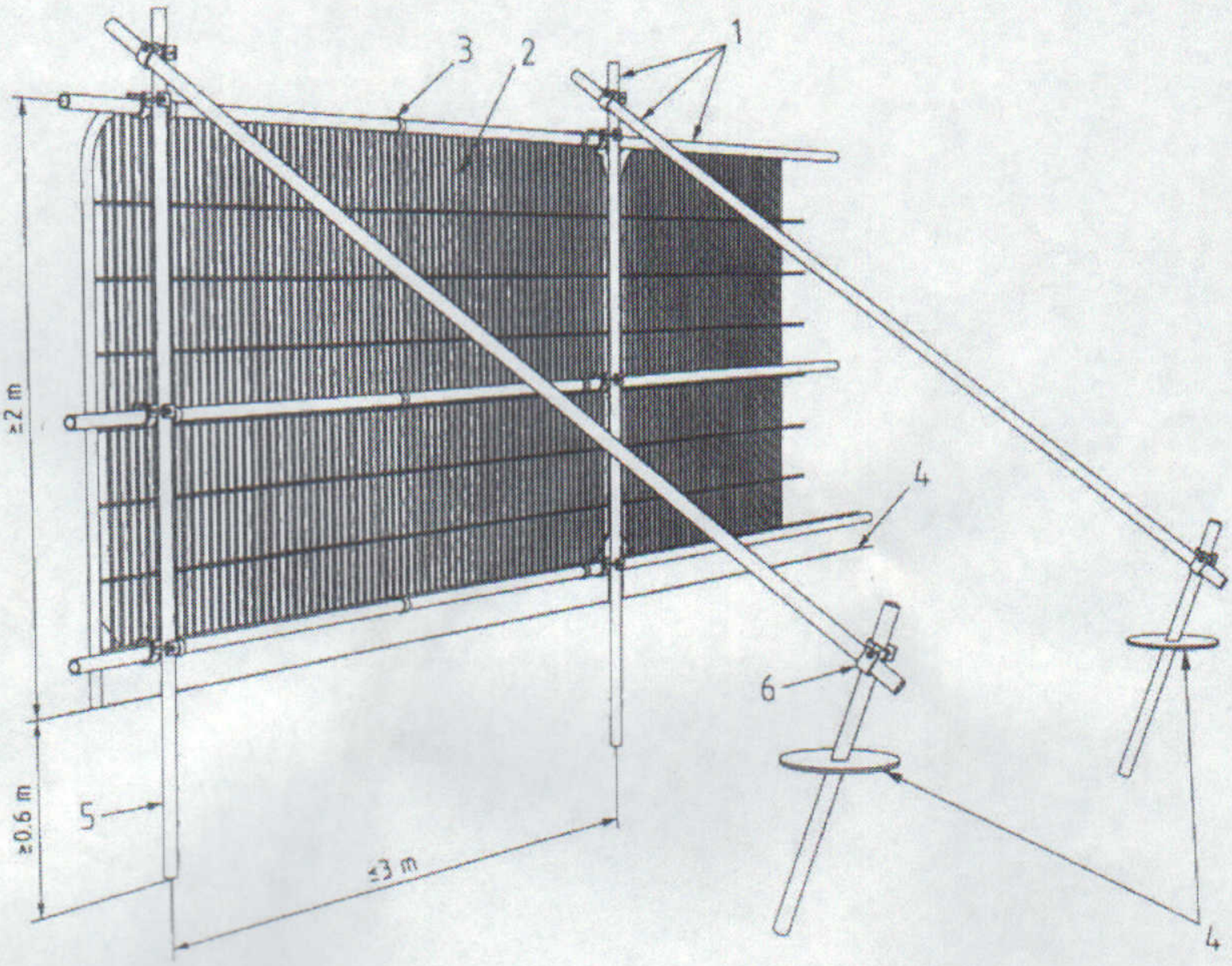
T78	**Ash (Fraxinus excelsior)**
Height	19m
Single/Multi stemmed	Single stem
Stem Diameter	0.66m
Branch Spread	N – 11m E – 3m S – 0m W – 0m
Height of Crown	8m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form. Main stem leaning extensively to north.
Prel. Man. Recommendations	Undertake 20% overall crown reduction. Prune to remove major deadwood. Monitor for stability.
Est. Remaining Contribution	10-20
Category	C
T79	**DEAD**
T80	**Horse Chestnut (Aesculus hippocastanum)**
Height	12m
Single/Multi stemmed	Single stem
Stem Diameter	0.49m
Branch Spread	N – 3m E – 3m S – 3m W – 3m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form with evidence of die-back throughout crown. Main stem divides at 2m with evidence of decay within this lower fork.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U
T81	**Horse Chestnut (Aesculus hippocastanum)**
Height	13m
Single/Multi stemmed	Single stem
Stem Diameter	0.44m
Branch Spread	N – 0m E – 3m S – 8m W – 3m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form with massive basal decay
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T82	**Sycamore (Acer pseudoplatanus)**
Height	10m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.4m
Branch Spread	N – 1m E – 3m S – 2m W – 2m
Height of Crown	3m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with evidence of thinning and die-back in upper crown. Main stem heavily colonised by ivy.
Prel. Man. Recommendations	Sever ivy at base
Est. Remaining Contribution	10-20
Category	C

Recommendations for Tree Protection during Development

Due to the high risk to established trees we would recommend the installation of protective fencing prior to commencement of **any** works on site in accordance with BS 5837:2012 "Trees in relation to Construction". Trees should be protected using scaffold frame supporting weld mesh panel fencing sited on the edge of the Root Protection Area as defined in BS5837:2012. These fenced areas should not be used for the storage of any plant machinery or materials and personnel should be excluded at all times; these fences should remain in situ until after final landscaping has been carried out, removed by hand with great care to prevent compaction or root damage to established trees. The services of a suitably qualified arborist should be sought **prior** to the commencement of each stage.

Figure 2 **Default specification for protective barrier**



Key

1 Standard scaffold poles

2 Heavy gauge 2 m 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 0.6 m)

6 Standard scaffold clamps

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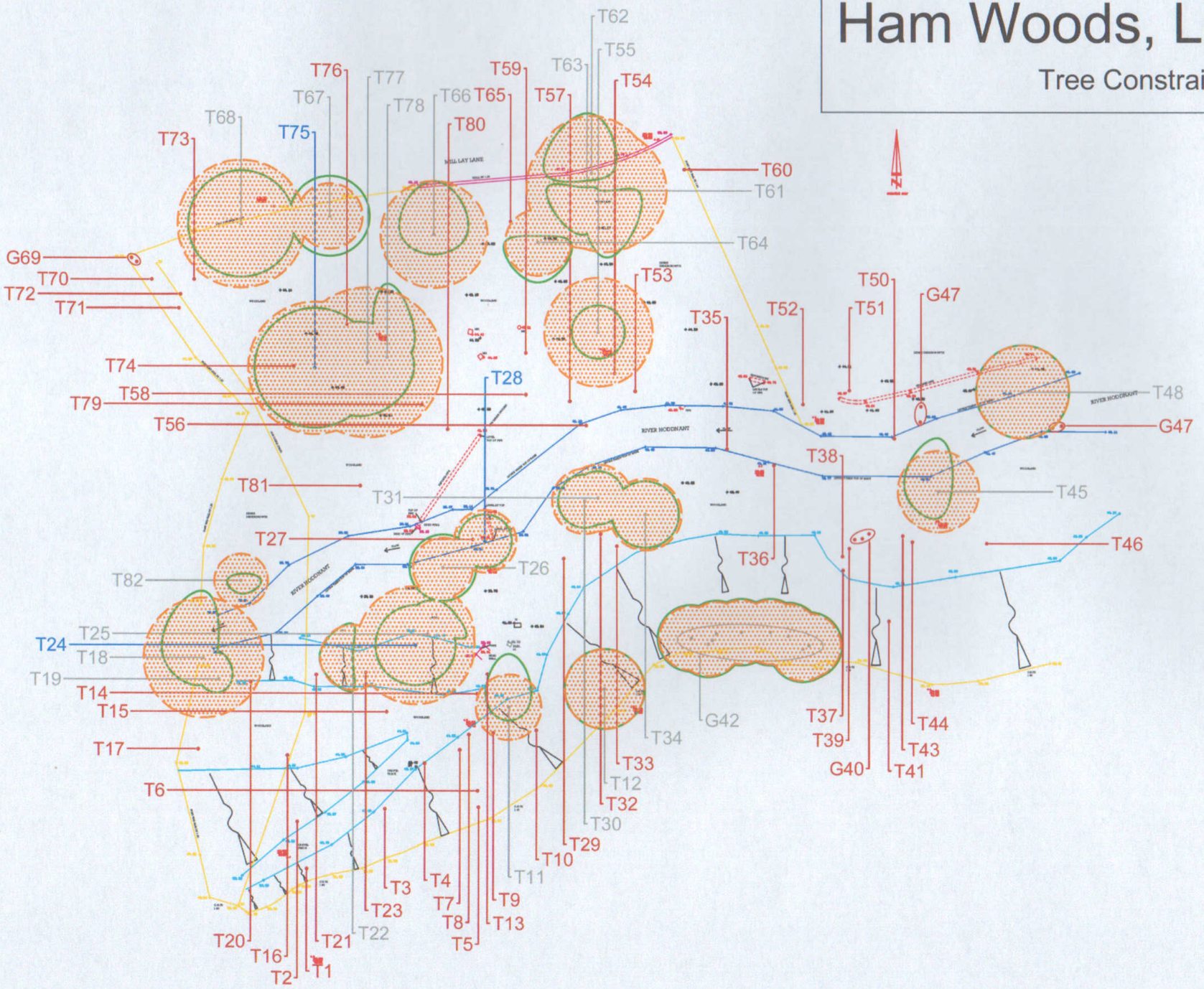
Tree Constraints Plan



Tree Constraints Plan

Root Protection Area

Tree Category

Tree Number

T44

Canopy Spread

Category A Trees

Category B Trees

Category C Trees

Category U Trees

Scale 1:600 @A3

05/2015

Treescene

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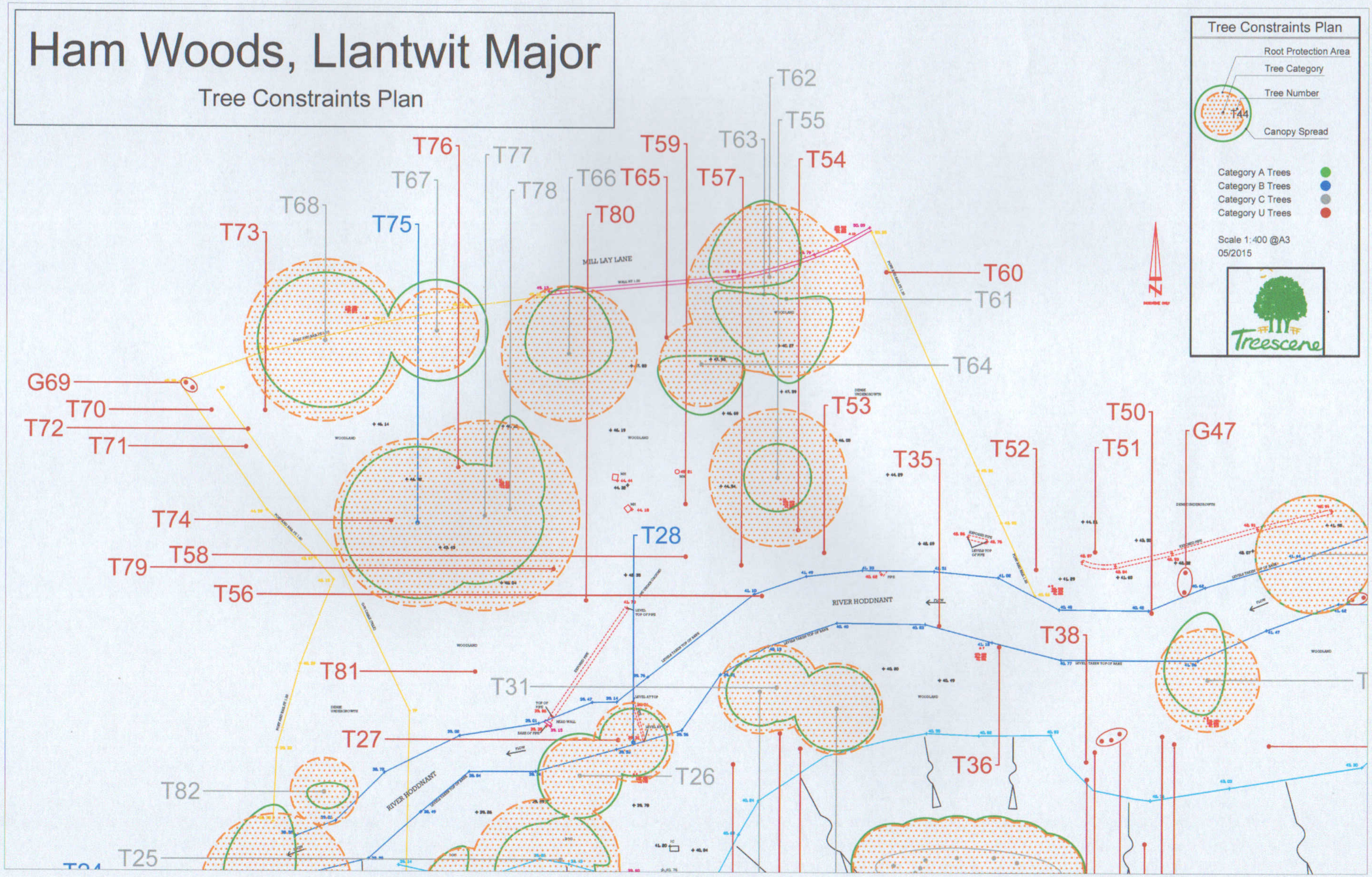
Tree Constraints Plan



Tree Constraints Plan

Root Protection Area

Tree Category

Tree Number

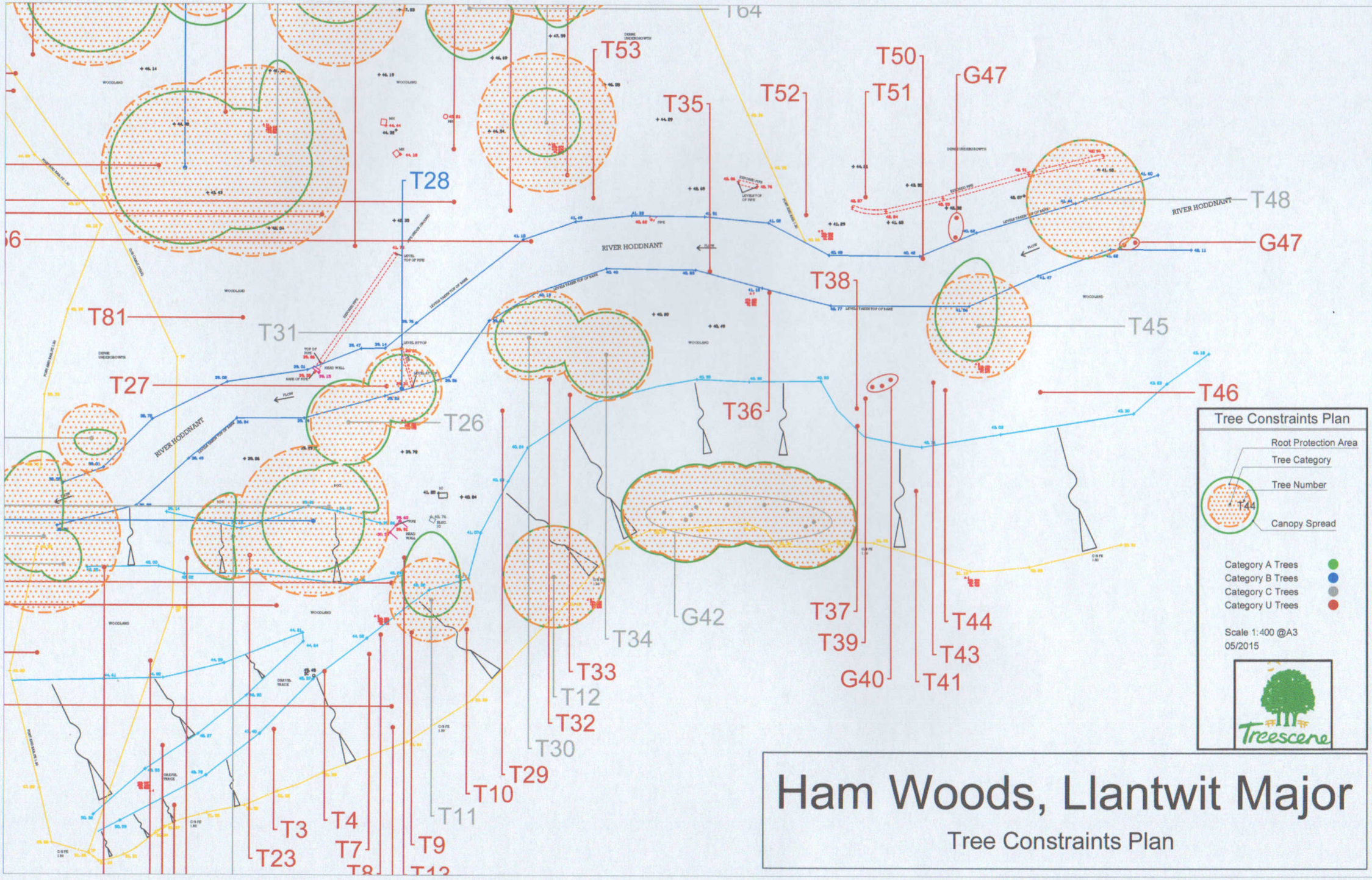
T44

Canopy Spread

Category A Trees
Category B Trees
Category C Trees
Category U Trees

Scale 1:400 @A3
05/2015

Treescene



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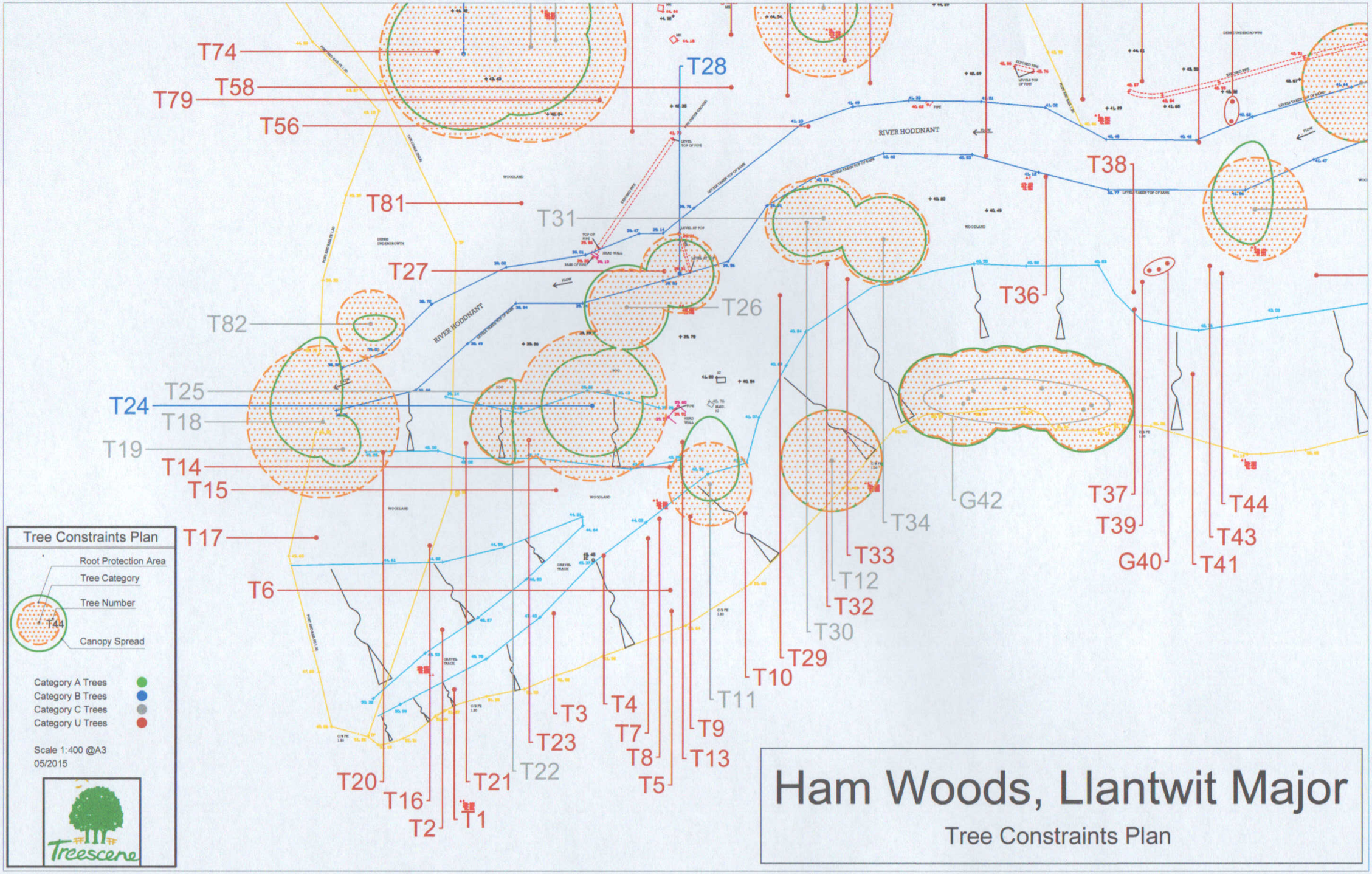
Tree Constraints Plan



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Tree Constraints Plan