ARBORICULTURAL CONSULTANTS

Tree Survey

At

Northcliff Lodge
Penarth

Inspected by:-
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I have been instructed by Celtic Developments Penarth Ltd to carry out a survey on trees at Northcliff Lodge, Penarth.

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 10 years, 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	18m
Single/Multi stemmed	Multi stemmed
Stem Diameter	1.2m
Branch Spread	N – 10m E – 10m S – 10m W – 10m
Height of Crown	5m
Age	Mature
Physiological Condition	Fair
Structural Condition	Twin stemmed specimen of good form. Evidence of slight thinning in upper crown.
Prel. Man. Recommendations	No action required at this time
Est. Remaining Contribution	>40
Category	B2

T2	**Ash (Fraxinus excelsior)**
Height	13m
Single/Multi stemmed	Single stem
Stem Diameter	0.57m
Branch Spread	N – 6m E – 6m S – 6m W – 6m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with evidence of excessive thinning throughout crown
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C

T3	**Oak (Quercus robur)**
Height	4m
Single/Multi stemmed	Single stem
Stem Diameter	0.1m
Branch Spread	N – 1m E – 1m S – 1m W – 1m
Height of Crown	2m
Age	Young
Physiological Condition	Good
Structural Condition	Young tree of good form
Prel. Man. Recommendations	No action required at this time
Est. Remaining Contribution	>40
Category	C

T4	**Lime (Tilia europaea)**
Height	12m
Single/Multi stemmed	Single stem
Stem Diameter	0.49m
Branch Spread	N – 6m E – 6m S – 6m W – 6m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form. Main stem leans slightly to east. Main stem divides at 2m leading to triple stemmed mid crown with evidence of minor inclusions within these lower forks. Evidence of minor root damage resulting from grass cutting machinery.
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	20-40
Category	C

T5	**Sycamore (Acer pseudoplatanus)**
Height	17m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.8m
Branch Spread	N – 6m E – 3m S – 6m W – 8m
Height of Crown	4m
Age	Mature
Physiological Condition	Poor
Structural Condition	Tree of poor form previously suppressed by a removed specimen. Main stem heavily colonised by ivy thus preventing full inspection. Evidence of basal decay and cracking of bark which indicates that this specimen is in a declining structural condition.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T6	**Sycamore (Acer pseudoplatanus)**
Height	17m
Single/Multi stemmed	Single stem
Stem Diameter	0.34m
Branch Spread	N – 3m E – 1m S – 5m W – 2m
Height of Crown	4m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form heavily suppressed by adjacent specimens. Tree with low stem diameter to height ratio.
Prel. Man. Recommendations	Monitor for stability
Est. Remaining Contribution	10-20
Category	C

T7	**Sycamore (Acer pseudoplatanus)**
Height	16m
Single/Multi stemmed	Single stem
Stem Diameter	0.26m
Branch Spread	N – 0m E – 2m S – 5m W – 3m
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. Dense vegetation prevents full inspection. Tree of low stem diameter to height ratio.
Prel. Man. Recommendations	Monitor for stability
Est. Remaining Contribution	10-20
Category	C

T8	**Sycamore (Acer pseudoplatanus)**
Height	16m
Single/Multi stemmed	Single stem
Stem Diameter	0.55m
Branch Spread	N – 6m E – 3m S – 7m W – 6m
Height of Crown	3m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form. Main stem divides at 3m leading to twin stemmed mid crown. Evidence of possible decay associated at this lower fork. Some deadwood extending over adjacent footway.
Prel. Man. Recommendations	Prune to remove major deadwood. Monitor for health.
Est. Remaining Contribution	10-20
Category	C

G9	**Group of Yew (Taxus baccata)**
Height	5m
Single/Multi stemmed	Single and multi stemmed
Stem Diameter	Up to 0.3m
Branch Spread	N – 1m E – 1m S – 1m W – 1m
Height of Crown	0m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Gappy hedgerow with some evidence of die-back in upper crowns
Prel. Man. Recommendations	Trim annual growth from top and sides
Est. Remaining Contribution	20-40
Category	C

T10	**Beech (Fagus sylvatica)**
Height	10m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.4m
Branch Spread	N – 6m E – 3m S – 0m W – 3m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Twin stemmed specimen of poor form with evidence of basal inclusion which may ultimately lead to failure. This specimen is heavily suppressed and unsuitable for retention.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T11	**Sycamore (Acer pseudoplatanus)**
Height	15m
Single/Multi stemmed	Single stem
Stem Diameter	0.41m
Branch Spread	N – 5m E – 3m S – 3m W – 4m
Height of Crown	4m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form. Some evidence of die-back and thinning of crown. Peeling and cracking of bark on main stem.
Prel. Man. Recommendations	Prune to remove major deadwood. Monitor for health.
Est. Remaining Contribution	10-20
Category	C

T12	**Sycamore (Acer pseudoplatanus)**
Height	13m
Single/Multi stemmed	Single stem
Stem Diameter	0.44m
Branch Spread	N – 4m E – 4m S – 8m W – 4m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Misshapen specimen of poor form. Evidence of basal decay with associated bulging at base of main stem indicates that this specimen is unsafe for retention adjacent to highway.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T13	**Corsican Pine (Pinus nigra maritima)**
Height	17m
Single/Multi stemmed	Single stem
Stem Diameter	0.69m
Branch Spread	N – 5m E – 7m S – 10m W – 8m
Height of Crown	8m
Age	Mature
Physiological Condition	Fair
Structural Condition	Notable specimen of variable form. Main stem leans slightly to the south. Crown more heavily developed on southern side. Evidence of slight thinning and die-back in upper crown which is normal for a specimen of this age.
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	20-40
Category	B

G14	**Group of Ash (Fraxinus excelsior)**
Height	13m
Single/Multi stemmed	Single and multi stemmed
Stem Diameter	0.3m
Branch Spread	N – 3m E – 3m S – 3m W – 3m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Self-sown specimens of poor form leaning extensively. These trees will become a hazard in relation to the adjacent highway.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T15	**Ash (Fraxinus excelsior)**
Height	14m
Single/Multi stemmed	Single stem
Stem Diameter	0.38
Branch Spread	N – 7m E – 5m S – 1m W – 5m
Height of Crown	4m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with evidence of slight thinning in upper crown
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C

T16	**Norway Maple (Acer platanoides)**
Height	9m
Single/Multi stemmed	Single stem
Stem Diameter	0.21m
Branch Spread	N – 2m E – 4m S – 2m W – 0m
Height of Crown	3m
Age	Young
Physiological Condition	Poor
Structural Condition	Tree of poor form with evidence of wound on main stem at 1.5m
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T17	**Hawthorn (Crataegus monogyna)**
Height	5m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.2m
Branch Spread	N – 3m E – 2m S – 3m W – 2m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Twin stemmed specimen of variable form
Prel. Man. Recommendations	No action required at this time
Est. Remaining Contribution	10-20
Category	C

T18	**Yew (Taxus baccata)**
Height	7m
Single/Multi stemmed	Single stem
Stem Diameter	0.17m
Branch Spread	N – 2m E – 2m S – 2m W – 2m
Height of Crown	1m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of reasonable form with evidence of slight thinning of crown
Prel. Man. Recommendations	No action required at this time
Est. Remaining Contribution	20-40
Category	C

T19	**Sycamore (Acer pseudoplatanus)**
Height	18m
Single/Multi stemmed	Single stem
Stem Diameter	0.78m
Branch Spread	N – 3m E – 6m S – 10m W – 3m
Height of Crown	6m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of variable from. Main stem divides at 2m leading to twin stemmed mid crown. Evidence of thinning and die-back in crown. Major deadwood and hung-up branches extend over highway. Minor basal decay present. This specimen appears to be in a declining condition.
Prel. Man. Recommendations	Undertake 25% overall crown reduction. Prune to remove major deadwood. Monitor for health.
Est. Remaining Contribution	10-20
Category	C

T20	**Lime (Tilia europaea)**
Height	14m
Single/Multi stemmed	Single stem
Stem Diameter	0.35m
Branch Spread	N – 4m E – 5m S – 3m W – 5m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form which appears to have lost its leading shoot causing dysfunctional growth in upper crown
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C

T21	**Purple Plum (Prunus pissardii)**
Height	10m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.4m
Branch Spread	N – 11m E – 4m S – 0m W – 0m
Height of Crown	1m
Age	Mature
Physiological Condition	Poor
Structural Condition	Tree of poor form leaning at an acute angle due to suppression by adjacent specimens. This tree is liable to failure.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T22	**Beech (Fagus sylvatica)**
Height	11m
Single/Multi stemmed	Single stem
Stem Diameter	0.36m
Branch Spread	N – 4m E – 5m S – 3m W – 3m
Height of Crown	2m
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 with evidence of major inclusion within this lower fork. Ultimately this fork may fail.
Prel. Man. Recommendations	Monitor for safety
Est. Remaining Contribution	20-40
Category	C

G23	**Group of Leyland Cypress (Cupressocyparis leylandii)**
Height	14m
Single/Multi stemmed	Single and multi stemmed
Stem Diameter	0.25m
Branch Spread	N – 2m E – 2m S – 2m W – 2m
Height of Crown	0m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Untidy hedgerow on boundary of site
Prel. Man. Recommendations	Trim annual growth from top and sides
Est. Remaining Contribution	10-20
Category	C

T24	**Sycamore (Acer pseudoplatanus)**
Height	14m
Single/Multi stemmed	Single stem
Stem Diameter	0.49m
Branch Spread	N – 6m E – 3m S – 4m W – 6m
Height of Crown	3m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with extensive squirrel damage throughout crown which has led to partial failure of some branches
Prel. Man. Recommendations	Prune to remove excessively squirrel damaged branches. Monitor for health.
Est. Remaining Contribution	10-20
Category	C

G25	**Group of Sycamore (Acer pseudoplatanus)**
Height	14m
Single/Multi stemmed	Single stem
Stem Diameter	0.4m
Branch Spread	N – 6m E – 6m S – 6m W – 6m
Height of Crown	4m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Trees generally of variable form with evidence of squirrel damage and associated decay at base of main stems. Ultimately these specimens may become unsafe.
Prel. Man. Recommendations	Monitor for safety
Est. Remaining Contribution	10-20
Category	C

T26	**Ash (Fraxinus excelsior)**
Height	16m
Single/Multi stemmed	Single stem
Stem Diameter	0.4m
Branch Spread	N – 0m E – 7m S – 8m W – 0m
Height of Crown	6m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form leaning at acute angle to the south-east. Evidence of dysfunctional tissue growth at base of main stem indicates that this specimen is under stress.
Prel. Man. Recommendations	Undertake 30% overall crown reduction. Monitor for health.
Est. Remaining Contribution	10-20
Category	C

T27	**Holm Oak (Quercus ilex)**
Height	16m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.8m
Branch Spread	N – 12m E – 1m S – 6m W – 12m
Height of Crown	3m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Twin stemmed specimen with extensive basal decay
Prel. Man. Recommendations	Undertake 30% overall crown reduction. Monitor for safety.
Est. Remaining Contribution	10-20
Category	C

T28	**Sycamore (Acer pseudoplatanus)**
Height	10m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.4m
Branch Spread	N – 3m E – 3m S – 3m W – 3m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Twin stemmed specimen of variable form with extensive squirrel damage throughout crown
Prel. Man. Recommendations	Monitor for safety
Est. Remaining Contribution	10-20
Category	C

T29	**Sycamore (Acer pseudoplatanus)**
Height	17m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.9m
Branch Spread	N – 8m E – 8m S – 8m W – 8m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Multi stemmed specimen of variable form. Main stems heavily colonised by ivy thus preventing full inspection. Evidence of squirrel damage throughout crown. Evidence of severe basal inclusions which may ultimately lead to failure.
Prel. Man. Recommendations	Monitor for safety
Est. Remaining Contribution	10-20
Category	C

T30	**Ash (Fraxinus excelsior)**
Height	16m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.55m
Branch Spread	N – 3m E – 10m S – 3m W – 0m
Height of Crown	6m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Twin stemmed specimen of poor form. Major stem leans extensively to east over site and is at risk of failure.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T31	**Holm Oak (Quercus ilex)**
Height	10m
Single/Multi stemmed	Single stem
Stem Diameter	0.32m
Branch Spread	N – 3m E – 3m S – 3m W – 3m
Height of Crown	1m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form. Stem leans mainly to the north. Extensive ivy colonisation in upper crown.
Prel. Man. Recommendations	Sever ivy at base. Monitor for stability.
Est. Remaining Contribution	20-40
Category	C

T32	**Monterey Cypress (Cupressus macrocarpa)**
Height	19m
Single/Multi stemmed	Single stem
Stem Diameter	0.68m
Branch Spread	N – 3m E – 3m S – 3m W – 3m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form. Main stem divides at 2m, 3m and 4m producing multi stemmed mid crown with evidence of inclusions within all lower forks. These forks may become at risk of failure at a later date.
Prel. Man. Recommendations	Monitor for safety
Est. Remaining Contribution	10-20
Category	C

G33	**Group of Leyland Cypress (Cupressocyparis leylandii), Holly (Ilex aquifolium) and Sweet Bay (Laurus nobilis)**
Height	10m
Single/Multi stemmed	Single and multi stemmed
Stem Diameter	0.4m
Branch Spread	N – 3m E – 3m S – 3m W – 3m
Height of Crown	1m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Trees generally of variable form
Prel. Man. Recommendations	No action required at this time
Est. Remaining Contribution	10-20
Category	C

T34	**Poplar (Populus spp)**
Height	3m
Single/Multi stemmed	Single stem
Stem Diameter	0.1m
Branch Spread	N – 1m E – 1m S – 1m W – 1m
Height of Crown	1m
Age	Young
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

G35	**Group of Leyland Cypress (Cupressocyparis leylandii) and Iris Yew (Taxus baccata 'Fastigiata')**
Height	5m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.35m
Branch Spread	N – 1m E – 1m S – 1m W – 1m
Height of Crown	0m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Trees generally of variable form. Some die-back in crowns.
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C

T36	**Ash (Fraxinus excelsior)**
Height	15m
Single/Multi stemmed	Single stem
Stem Diameter	0.33m
Branch Spread	N – 2m E – 3m S – 4m W – 3m
Height of Crown	3m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C

T37	**Kilmarnock Willow (Salix spp)**
Height	3m
Single/Multi stemmed	Single stem
Stem Diameter	0.1m
Branch Spread	N – 1m E – 1m S – 1m W – 1m
Height of Crown	1m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Ornamental specimen of variable form
Prel. Man. Recommendations	No action required at this time
Est. Remaining Contribution	10-20
Category	C

T38	**Grey Alder (Alnus incana)**
Height	16m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.7m
Branch Spread	N – 4m E – 4m S – 4m W – 4m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Twin stemmed specimen of variable form with evidence of basal inclusions
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C

T39	**Ash (Fraxinus excelsior)**
Height	13m
Single/Multi stemmed	Multi stemmed
Stem Diameter	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	Twin stemmed specimen of variable form with extensive basal inclusions
Prel. Man. Recommendations	Monitor for stability
Est. Remaining Contribution	10-20
Category	C

T40	**Sycamore (Acer pseudoplatanus)**
Height	18m
Single/Multi stemmed	Single stem
Stem Diameter	0.74m
Branch Spread	N – 8m E – 8m S – 8m W – 8m
Height of Crown	3m
Age	Mature
Physiological Condition	Fair
Structural Condition	Tree of reasonable form with well-balanced crown
Prel. Man. Recommendations	No action required at this time
Est. Remaining Contribution	>40
Category	B

T41	**Sycamore (Acer pseudoplatanus)**
Height	18m
Single/Multi stemmed	Single stem
Stem Diameter	0.44m
Branch Spread	N – 5m E – 2m S – 6m W – 3m
Height of Crown	3m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of reasonable form slightly suppressed by adjacent specimen
Prel. Man. Recommendations	No action required at this time
Est. Remaining Contribution	20-40
Category	C

T42	**Sycamore (Acer pseudoplatanus)**
Height	16m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.7m
Branch Spread	N – 7m E – 7m S – 7m W – 7m
Height of Crown	1m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Multi stemmed specimen of variable form. Main stem and mid crown heavily colonised by ivy thus preventing full inspection. Extensive squirrel damage throughout crown which has led to some branch failure.
Prel. Man. Recommendations	Prune to remove excessively squirrel damaged branches. Sever ivy at base. Monitor for health.
Est. Remaining Contribution	20-40
Category	C

T43	**Sycamore (Acer pseudoplatanus)**
Height	12m
Single/Multi stemmed	Single stem
Stem Diameter	0.39m
Branch Spread	N – 3m E – 3m S – 3m W – 3m
Height of Crown	3m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with extensive squirrel damage throughout crown. Main stem heavily colonised by ivy.
Prel. Man. Recommendations	Prune to remove excessively squirrel damaged branches. Monitor for health.
Est. Remaining Contribution	10-20
Category	C

T44	**Sycamore (Acer pseudoplatanus)**
Height	18m
Single/Multi stemmed	Single stem
Stem Diameter	0.78m
Branch Spread	N – 8m E – 5m S – 7m W – 6m
Height of Crown	5m
Age	Mature
Physiological Condition	Fair
Structural Condition	Tree of reasonable form
Prel. Man. Recommendations	Sever ivy at base. Prune to remove major deadwood.
Est. Remaining Contribution	>40
Category	B

T45	**Sycamore (Acer pseudoplatanus)**
Height	18m
Single/Multi stemmed	Single stem
Stem Diameter	0.55m
Branch Spread	N – 6m E – 2m S – 6m W – 5m
Height of Crown	3m
Age	Middle aged
Physiological Condition	Fair
Structural Condition	Tree of reasonable form. Main stem heavily colonised by ivy thus preventing full inspection.
Prel. Man. Recommendations	Sever ivy at base
Est. Remaining Contribution	>40
Category	B

T46	**Sycamore (Acer pseudoplatanus)**
Height	13m
Single/Multi stemmed	Single stem
Stem Diameter	0.7m
Branch Spread	N – 8m E – 9m S – 2m W – 3m
Height of Crown	4m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with crown more heavily developed on northern and eastern side. Main stem and mid crown 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

T47	**Sycamore (Acer pseudoplatanus)**
Height	16m
Single/Multi stemmed	Single stem
Stem Diameter	0.6m
Branch Spread	N – 6m E – 3m S – 7m W – 6m
Height of Crown	3m
Age	Middle aged
Physiological Condition	Fair
Structural Condition	Tree of reasonable form. Main stem heavily colonised by ivy thus preventing full inspection.
Prel. Man. Recommendations	Sever ivy at base
Est. Remaining Contribution	20-40
Category	B

T48	**Sycamore (Acer pseudoplatanus)**
Height	14m
Single/Multi stemmed	Single stem
Stem Diameter	0.8m (estimate)
Branch Spread	N – 5m E – 5m S – 5m W – 5m
Height of Crown	4m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form. Main stem densely colonised by ivy and other vegetation thus preventing full inspection. Evidence of slight die-back and thinning within crown.
Prel. Man. Recommendations	Sever ivy at base
Est. Remaining Contribution	10-20
Category	C

G49	**Group of Sycamore (Acer pseudoplatanus) and Ash (Fraxinus excelsior)**
Height	Up to 13m
Single/Multi stemmed	Single and multi stemmed
Stem Diameter	Up to 0.35m
Branch Spread	N – 3m E – 3m S – 3m W – 3m
Height of Crown	2m
Age	Young/Middle aged
Physiological Condition	Fair to poor
Structural Condition	Trees generally of variable form. Mainly coppice re-growth.
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C

T50	**Yew (Taxus baccata)**
Height	13m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.8m
Branch Spread	N – 5m E – 5m S – 5m W – 5m
Height of Crown	2m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of reasonable form but with evidence of severe thinning and die-back in upper crown
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	20-40
Category	C

T51	**Corsican Pine (Pinus nigra maritime)**
Height	17m
Single/Multi stemmed	Single stem
Stem Diameter	0.77m
Branch Spread	N – 8m E – 8m S – 8m W – 8m
Height of Crown	3m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of good form with extensive die-back and thinning throughout crown. This specimen appears to be in a declining condition.
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C

T52	**Magnolia (Acuminata)**
Height	3m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.35m
Branch Spread	N – 1m E – 1m S – 1m W – 1m
Height of Crown	0m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Tree of poor form. Heavily reduced in the past.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T53	**Magnolia (Acuminata)**
Height	5m
Single/Multi stemmed	Single stem
Stem Diameter	0.35m
Branch Spread	N – 2m E – 2m S – 2m W – 2m
Height of Crown	1m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form that has been heavily reduced in the past
Prel. Man. Recommendations	No action required at this time
Est. Remaining Contribution	10-20
Category	C

G54	**Group of 1 Cherry (Prunus spp) and 1 Cypress (Cupressus spp)**
Height	5m
Single/Multi stemmed	Single stem
Stem Diameter	0.15m
Branch Spread	N – 2m E – 2m S – 2m W – 2m
Height of Crown	1m
Age	Young
Physiological Condition	Fair to poor
Structural Condition	Trees of variable form
Prel. Man. Recommendations	No action required at this time
Est. Remaining Contribution	10-20
Category	C

T55	**Ash (Fraxinus excelsior)**
Height	16m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.7m
Branch Spread	N – 5m E – 8m S – 4m W – 4m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Poor
Structural Condition	Twin stemmed self-sown specimen of poor form. Northern most stem leans excessively and is at risk of failure.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T56	**Sycamore (Acer pseudoplatanus)**
Height	14m
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	Fair to poor
Structural Condition	Self-sown specimen of variable form
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	10-20
Category	C

G57	**Group of Apple (Malus spp), Ash (Fraxinus excelsior), Rowan (Sorbus aucuparia), Cherry (Prunus spp) and Plum (Prunus spp)**
Height	3m
Single/Multi stemmed	Single stem
Stem Diameter	0.1m
Branch Spread	N – 1m E – 1m S – 1m W – 1m
Height of Crown	0m
Age	Young
Physiological Condition	Fair to poor
Structural Condition	Mainly fruit trees of variable form
Prel. Man. Recommendations	No action required at this time
Est. Remaining Contribution	10-20
Category	C

G58	**Group of Ash (Fraxinus excelsior) and Sycamore (Acer pseudoplatanus)**
Height	17m
Single/Multi stemmed	Single and multi stemmed
Stem Diameter	Up to 0.7m
Branch Spread	N – 8m E – 8m S – 8m W – 8m
Height of Crown	3m
Age	Mature
Physiological Condition	Fair/Fair to poor
Structural Condition	Trees surrounded by dense vegetation thus preventing full inspection. Trees generally of reasonable form but some specimens exhibit signs of mild die-back.
Prel. Man. Recommendations	Monitor for health
Est. Remaining Contribution	20-40
Category	C

T59	**Lime (Tilia europaea)**
Height	17m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.8m
Branch Spread	N – 8m E – 8m S – 8m W – 8m
Height of Crown	2m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Multi stemmed specimen of coppice re-growth from old rotten stump. Evidence of excessive decay at base of main stems indicate that without reduction this specimen is liable to failure.
Prel. Man. Recommendations	Undertake 30% overall crown reduction. Monitor for stability.
Est. Remaining Contribution	10-20
Category	C

T60	**Sycamore (Acer pseudoplatanus)**
Height	16m
Single/Multi stemmed	Single stem
Stem Diameter	0.37m
Branch Spread	N – 1m E – 3m S – 4m W – 3m
Height of Crown	6m
Age	Middle aged
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with low stem diameter to height ratio. Main stem heavily colonised by ivy thus preventing full inspection.
Prel. Man. Recommendations	Sever ivy at base. Monitor for stability.
Est. Remaining Contribution	10-20
Category	C

T61	**Goat Willow (Salix caprea)**
Height	10m
Single/Multi stemmed	Multi stemmed
Stem Diameter	0.65m
Branch Spread	N – 6m E – 3m S – 2m W – 2m
Height of Crown	3m
Age	Mature
Physiological Condition	Poor
Structural Condition	Tree of poor form that has already partially collapsed. This specimen is at risk of total failure.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T62	**Oak (Quercus robur)**
Height	15m
Single/Multi stemmed	Single stem
Stem Diameter	0.8m
Branch Spread	N – 12m E – 6m S – 4m W – 8m
Height of Crown	3m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form with evidence of some basal decay. Evidence of severe previous storm damage which has led to commencement of decay within major limbs.
Prel. Man. Recommendations	Undertake 30% overall crown reduction. Monitor for health.
Est. Remaining Contribution	20-40
Category	C

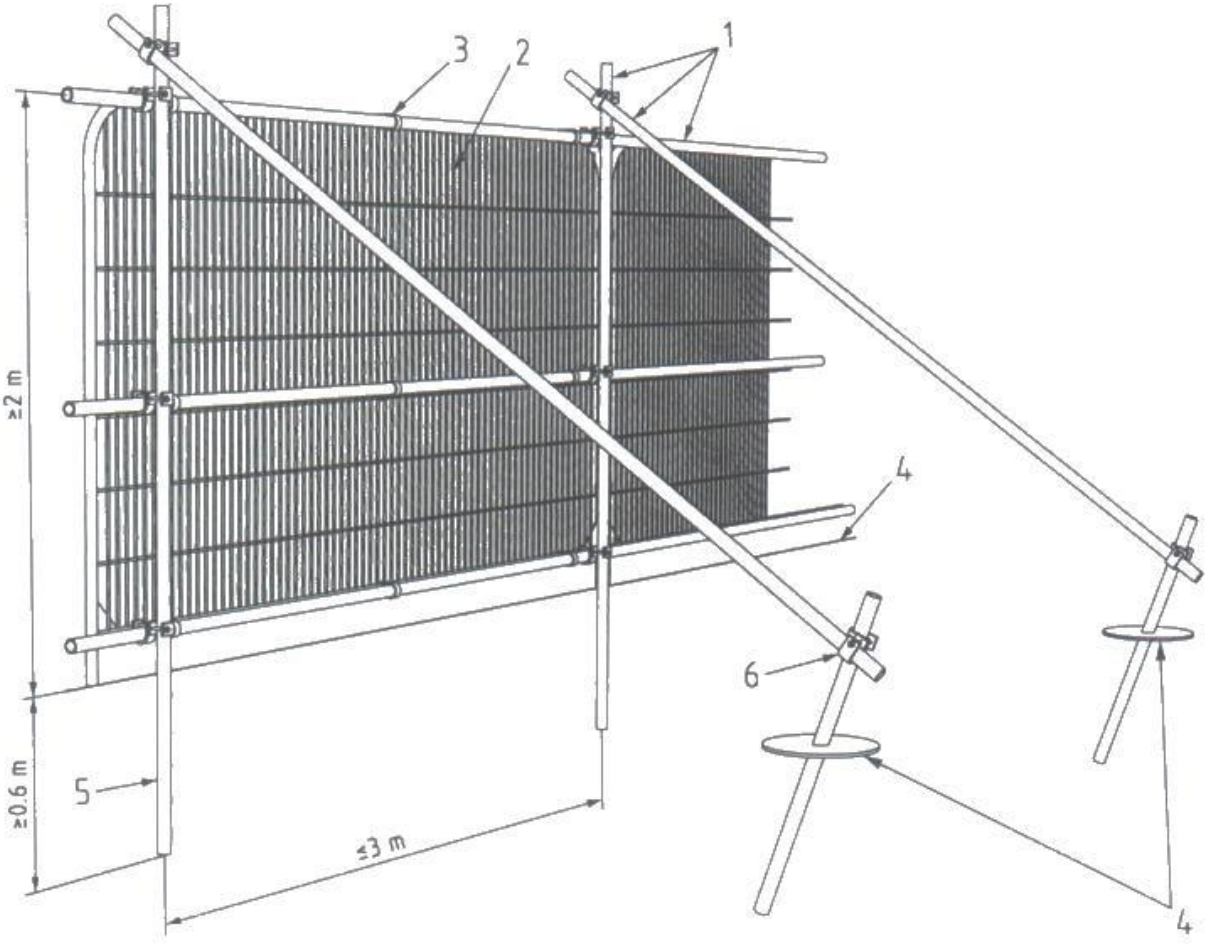
T63	**Ash (Fraxinus excelsior)**
Height	18m
Single/Multi stemmed	Single stem
Stem Diameter	0.9m
Branch Spread	N – 8m E – 7m S – 5m W – 7m
Height of Crown	6m
Age	Mature
Physiological Condition	Poor
Structural Condition	Tree of variable form with evidence of severe basal decay. This specimen is at risk of failure.
Prel. Man. Recommendations	Remove
Est. Remaining Contribution	<10
Category	U

T64	**Ash (Fraxinus excelsior)**
Height	18m
Single/Multi stemmed	Single stem
Stem Diameter	0.9m
Branch Spread	N – 10m E – 8m S – 5m W – 4m
Height of Crown	5m
Age	Mature
Physiological Condition	Fair to poor
Structural Condition	Tree of variable form that has previously been heavily reduced leading to commencement of decay within some major limbs
Prel. Man. Recommendations	Undertake 30% overall crown reduction. Monitor for stability.
Est. Remaining Contribution	20-40
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**



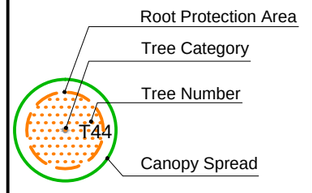
Key

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

Northcliff Lodge, Penarth

Tree Constraints Plan

Tree Constraints Plan



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

Scale 1:700 @A3
06/2015

Treescene

Northcliff Lodge, Penarth

Tree Constraints Plan

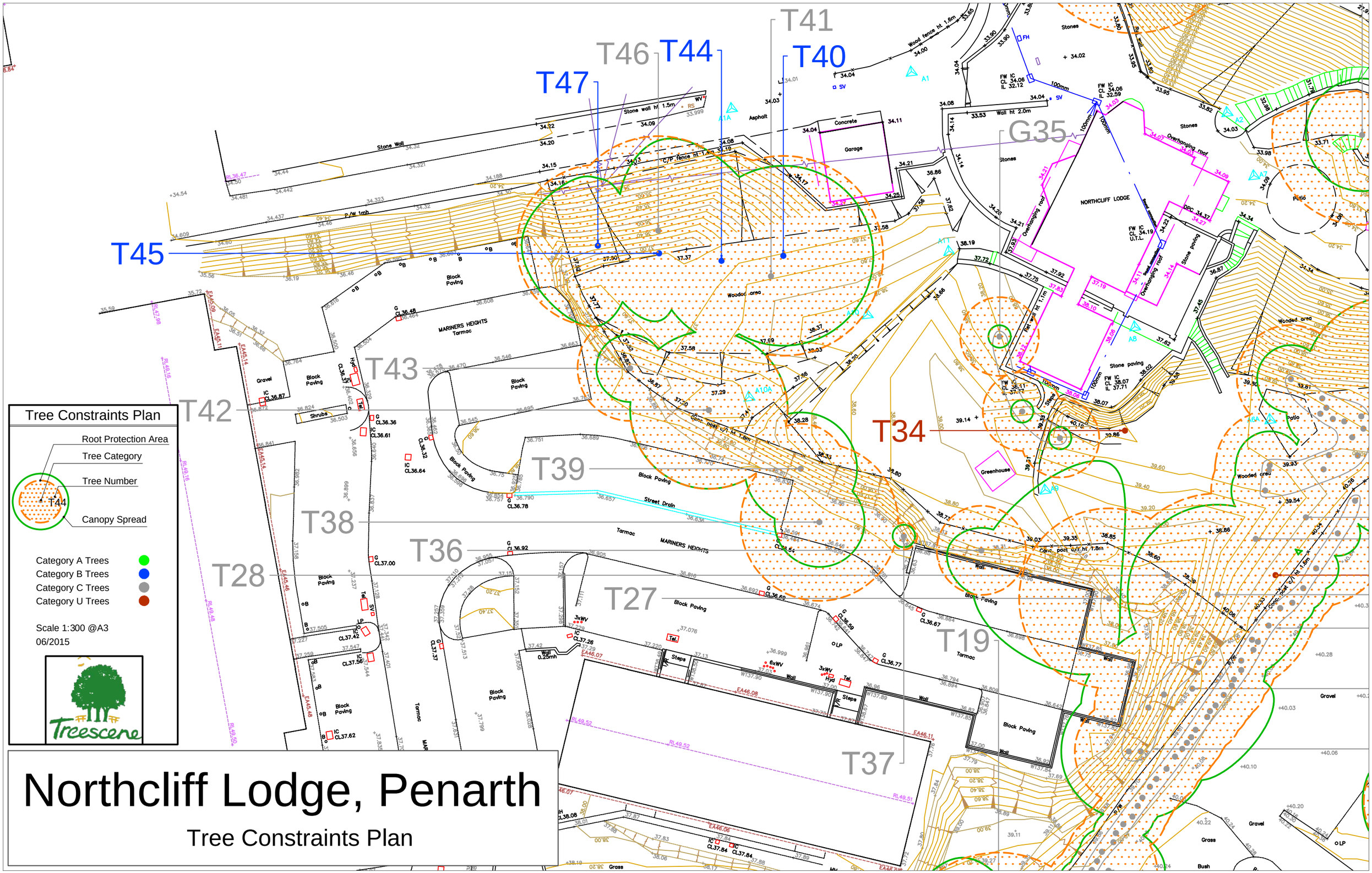
Tree Constraints Plan

Root Protection Area
Tree Category
Tree Number
T44
Canopy Spread

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

Scale 1:300 @A3
06/2015

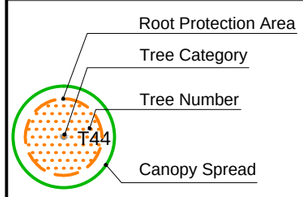
Treescene


T41
T46
T44
T40
T47
T45
T43
T42
T39
T38
T36
T28
T27
T37
T19
T34
G35
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 1:300 @A3
06/2015
Treescene
Stone Wall
Stone wall ht 1.5m
C/P fence ht 1.8m
P/W 1mh
Wood fence ht 1.6m
Wall ht 2.0m
Asphalt
Concrete
Garage
Block Paving
MARINERS HEIGHTS
Tarmac
Gravel
Shrubs
Wooded area
NORTHCLIFF LODGE
Overhanging roof
Stone paving
Patio
Stones
Greenhouse
Steps
Wall
Grass
Bush
Street Drain
Conc. post c/f ht 1.8m
Conc. post c/f ht 1.6m
Red wall ht 1.1m
Northcliff Lodge, Penarth
Tree Constraints Plan

Northcliff Lodge, Penarth

Tree Constraints Plan

Tree Constraints Plan



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

Scale 1:300 @A3
06/2015

Treescene

T41

T40

T48

G49

T59

T50

T52

T51

T62

T61

T63

T53

G58

T55

G54

G35

NORTHCLIFF LODGE

Garage

Concrete

Asphalt

Wall ht 2.0m

Wood fence ht 1.6m

Stone ret. wall

Stone paving

Overhanging roof

Grass

Stones

Pond

Walkway

Bench

Patio

Shed

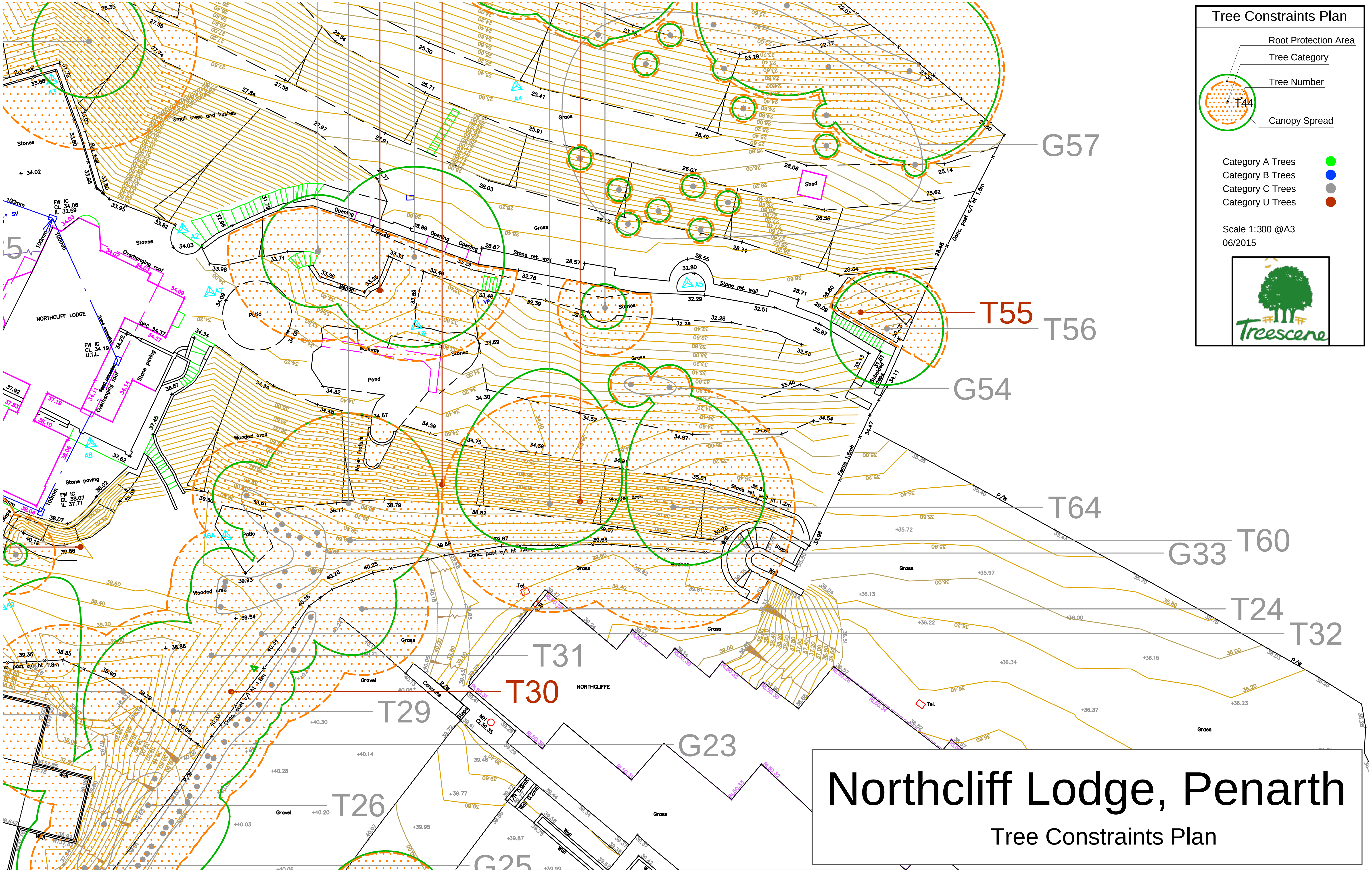
Opening

Conc. post c/l ht 1.8m

Fence 1.6mh

Wooded area

Small trees and bushes



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 1:300 @A3
06/2015
Treescene
G57
T55
T56
G54
T64
T60
G33
T24
T32
T31
T30
T29
G23
T26
G25
NORTHCLIFF LODGE
NORTHCLIFFE
Northcliff Lodge, Penarth
Tree Constraints Plan