

TREE SURVEY & CONSTRAINTS PLAN IN ACCORDANCE WITH BS 5837:2012

Proj. No 10496	The Old Vica	rage, The Street, Badwell Ash, Bury St Edmunds, Suffolk, IP31 3DH
C	client:	Jenny Auchincloss Designs
Date	of Report:	25/09/2023

Hayden's Arboricultural Consultants Ltd, Units 3-5 Moseley's Farm Business Centre Fornham All Saints, Bury St Edmunds Suffolk. IP28 6JY

Telephone: 01284 765391 Email: Info@treesurveys.co.uk
WWW.treesurveys.co.uk



TREE SURVEY & CONSTRAINTS PLAN IN ACCORDANCE WITH BS 5837:2012

The Tree Constraints Plan (TCP) is an important tool that objectively evaluates, classifies and categorises trees in accordance with BS 5837 (2012). Simultaneously, it also provides the architect and designer with an assessment of the associated constraints they may create. As such, the data presented is aimed at pre-empting the requirements of the Local Planning Authority (LPA) by identifying and quantifying key constraints such as canopy dimensions, root protection areas (RPA), water demand and ground cover. The TCP also provides an assessment of the general condition of the trees.

The benefit of the TCP is that the developable area that is free from physical tree constraints, both above and below ground, is clearly identified. Ideally, all development should take place outside the canopy spread and RPA of the trees considered worthy or appropriate for retention thus allowing a traditional construction process. It is usually technically possible (though not necessarily desirable) to build within a very limited portion of the RPA of trees using specialist engineering techniques that provide for minimal or no root disturbance, but inevitably this is more difficult and expensive than traditional construction methods and may not be acceptable to the LPA. Similarly, and wherever possible, construction should take place a minimum of 2 metres beyond the maximum branch spread of retained trees to allow workspace for scaffolding etc.

Once the final design is settled it will be necessary to complete an 'Arboricultural Impact Assessment and Preliminary Method Statement' (Prelim TS & AIA) which will form part of the planning application submission. The Prelim TS & AIA will also provide more detailed information regarding tree surgery and pests and diseases etc.

NB: This report is for design guidance only and not sufficient to support a planning application

Contents

- 1.0 Site Drawing
- 2.0 Schedule of Trees
- 3.0 Explanatory Notes
- 4.0 Statutory Tree Protection



Hayden's sourced TPO & Conservation Area status from the Local Planning Authority's Online Mapping System on 14/09/23. We								
TPO's are present on site								
The site is not located within a conservation area We would advise it prudent that before any tree work commences, this is checked directly with the Local Planning Authority to confirm that their online mapping system is definitive.								
	N	OTE:						
Hayden's Arbori Topographical S positions of all tr additional featur position of the tr as exact but give	layden's Arboricultural Consultants were provided with a opographical Survey but these do not always show the positions of all the trees/features on site. The locations of any additional features have been fixed using GPS. As such the position of the trees/landscape features should not be taken as exact but gives a fair distribution of their locations on site.							
CATEC	SORY /	AND DE	FINTION					
Category U	Those in suc as living trees	h condition that they s in the current land u	cannot realistically be retained use for longer than 10 years					
Category A	Trees of hig expectancy of	h quality with an est f at least 40 years	imated remaining life					
Category B	Trees of mo expectancy of	derate quality with a f at least 20 years	an estimated remaining life					
Category C	Trees of low expectancy of diameter belo	r quality with an estir f at least 10 years, o ow 150mm	nated remaining life r young trees with a stem					
	LEC	GEND						
• ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Existin 5837:2	g Tree/Fe 012 Cateo	ature BS gory B					
• ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Existing 5837:2	g Tree/Fe 012 Cateo	ature BS gory C					
Area Area	Line of Area (F followin in BS 5	Root Prot RPA) - cal ng guidelir 8837:2012	tection culated nes set					
	Additio doesn'i 2012 c is inclu	onal feature which t meet BS 5837: categorisation but uded for reference						
20/09/2023 KFJ Bas	ed on Alpha Sur	veys Topographical S	Survey Drawing: AS1910-01					
v: Date: By: Rev The position, c are based on a The original o	rision: ondition, a site surv f this draw	and dimensi ey undertak ving was pro	ons of the trees en on 05/09/2023 oduced in colour -					
	s copy sho	ale 1:200	elled upon"					
)m 4m		8m	12m 16m					
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5 Moseleys Fa Fornham All S Bury St Edmur Suffolk IP28 6	© HAYDEN'S 2022 5 Moseleys Farm Business Centre Fornham All Saints, Bury St Edmunds Suffolk IP28 6JY Southern Office: 01722 657423							
www.treesurvey	/s.co.uk	Emai	I: info@treesurveys.co.uk					
Jenny Auc	hincloss De	signs	Tree Survey and Constraints Plan					
The Old Vicarag	e, The Stree	et, Badwell Ash	n, Suffolk, IP31 3DH					
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10496-D-CP

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SCHE	EDULE OF	TREES		The C	Old Vicarag	e, The Street, Bady	well Ash, Bury St Edmunds, Suffolk		Surveyed By: Alex Turner Managed By: Alex Turner	Date: 05/09/2	2023
TreeNo	Species	DBH	He	ight	Visual	Crown Spread	Problems / Comments	BS	Work Required	Pi	riority
		Min Dist	Crown	Lowest	Age	Water Demand		Cat			
On site		RPA (m²)	Aspect	Aspect	SULE	Ground Cover					
A001	Holly, English Yew, Hazel.	110	5	5.5	Low	N2, E2, S2, W2	Mixed species area of young trees with crowns touching and overhanging the site boundary fence and wall. Average dimensions	C1	No work required.		4
	Cherry Spp	1.32	0.1		Y	Moderate	provided. Fair form and condition.				
Yes		5.5			20+ years	lvy					
A002	Bay Laurel, Cherry Laurel.	210		6	Low	N2.5, E2.5, S2.5, W2.5	Mixed species area of young trees with crowns touching and overhanging the site boundary fence and wall. Average dimensions	C1	No work required.		4
	Crimson	2.52	0.5		SM	Moderate	provided. Fair form and condition.				
Yes	Cherry Spp	20			10+ years	Building, Ivy					
A003	Cherry Laurel, Cherry Plum,	100		6	Moderate	N2, E2, S2, W2	Dense mixed species area of small trees and shrubs. Unable to access due to low branches. Average dimensions provided. Close	C1	No work required.		4
	Elder, Dogwood	1.2	0.1		SM	Moderate	proximity with existing boundary wall. Fair form and condition.				
Yes	Spp, Hornbeam, Ash	4.5			20+ years	Bare earth, Grass					
A004	Cherry Laurel, Hawthorn, Holly	210		3	Low	N2.5, E2.5, S2.5, W2.5	Mixed species area of maturing trees with crowns touching and overhanging the site boundary fence and wall. Stems are in close	C1	No work required.		4
		2.52	0.1		SM	High	proximity with existing fence. Average dimensions provided. Dense				
Yes		20			20+ years	Bare earth, Grass	-screen. Fair form and condition.				
G001	English Yew	500	1	1	Moderate	N4.5, E4.5, S4.5, W4.5	Group of five trees forming homogenous crown. Stem bases are at the top of the raised area of ground: higher by 1 metre to north-west	B1	No work required.		4
		6	0.1		EM	Moderate	over approximately 3 metres. Average dimensions provided. At				
Yes		113.1			40+ years	Gravel, Bare earth	Ivy is becoming established on two stems. Low branches inhibits				
							species. Ground works have been undertaken to the south/south- west but thought to have not had particular impact on the root. Good form and condition.				
G002	Holm Oak	110		5	Low	N2, E2, S2, W2	Pair of trees growing within 1 metre of site boundary fence. Comparatively new trees to site. Trees grow beneath crown of larger	C1	No work required.		4
		1.32	0.5		Y	High	neighbouring tree and in close proximity with neighbouring dwelling				
Yes		5.5			10+ years	Building, Bare earth	condition.				
G003	Hornbeam	140	8	5.5	Low	N2.5, E2.5, S2.5, W2.5	Pair of new/young trees growing within 0.5 metres of existing brick wall. Average dimensions provided. No obvious visual defects at time	C1	No work required.		4
		1.68	1		Y	Moderate	of inspection. Potential for conflict with wall depending on the existing				
Yes		8.9			20+ years	Building, Bare earth					

TreeNo	Species	DBH	Height		Height Vis		Visual	Crown Spread	Problems / Comments	BS	Work Required	Priority
		Min Dist	Crown	Lowest	Age	Water Demand		Cat				
On site		RPA (m²)	Aspect	Aspect	SULE	Ground Cover						
G004	European Lime	120		7	Low	N2, E2, S2, W2	Group of six trees growing on site boundary. Stems are located within 0.5 metres of existing boundary fence. Average dimensions	C1	No work required.	4		
		1.44	0.5		Y	Moderate	provided. Fair form and condition.					
Yes		6.5			40+ years	Gravel, Off-site/no access						
G005	English Yew	300		3	Low	N2, E2, S2, W2	Pair of trees managed into rounded shapes. No clear access to stems to measure DBH so it is estimated. Average dimensions	C1	No work required.	4		
		3.6	0.1		SM	Moderate	provided. Fair form and condition.					
Yes		40.7			20+ years	Grass, Gravel						
H001	Hornbeam, Holly, Cherry	100		6	Moderate	N3, E3, S3, W3	Boundary hedge between site and road to west and property to the north. North extent of hedge is growing adjacent to existing fence.	C1	No work required.	4		
	Laurel	1.2	0.1		SM	Moderate	Average dimensions provided. Dense feature. Good screening value. Fair form and condition					
Yes		4.5			20+ years	Grass, Tarmac						
T001	Beech	640	2	20	High	N6, E6, S3, W7.5	Tree growing close (within 2 metres) to existing boundary fence. Poor access around crown extents so estimations have been made		No work required.	4		
		7.68	2		EM	Moderate	where the branches overhang fences or difficult terrain. Build up of					
Yes		185.3			40+ years	Building, Bare earth	past surgery to reduce crown on east aspect. No obvious visual defects at time of inspection. South crown extent partially			L		
					1	1	suppressed by neighbouring tree. Good form and condition.					
T002	Beech	420	2	20	Moderate	N1, E4, S6, W4	Tree growing close (within 2 metres) to existing boundary fence. Poor access around crown extents so estimations have been made	B1	No work required.	4		
		5.04	2		SM	Moderate	where the branches overhang fences or difficult terrain. Build up of green waste material east of stem base obscures levels. Evidence of					
Yes		79.8			40+ years	Building, Bare earth	past surgery to reduce crown on east aspect. No obvious visual					
							neighbouring tree. Good form and condition.					
T003	Sycamore	600	18	8.5	High	N5.5, E6, S5, W6	Tree growing close (within 4 metres) to existing boundary fence. Poor access around crown extents so estimations have been made	B1	Monitor condition in three years to assess implications of root damage.	3		
		7.2	2.5		EM	Moderate	where the branches overhang fences or above other trees. Multi-					
Yes		162.9			20+ years	Bare earth	crown. Root damage is evident to the west where a vehicle has					
							area. Roots up to 50mm diameter have been broken or snapped high in the soil profile. Fair form. Good physiological condition currently.					
T004	Box	400		8	Low	N3, E2.5, S3.5, W5	Multi-stemmed form from ground level. Large south stem has suffered a recent tear out wound leaving a 700mm long area of	B1	No work required.	4		
		4.8	1.8		М	Moderate	exposed wood. Crown is growing beneath larger neighbouring tree so					
Yes		72.4			20+ years	Bare earth	area but no visible damage to roots. Good example of species. Good					

TreeNo	Species	DBH	He	ight	Visual	Crown Spread	Problems / Comments	BS	Work Required	Priority
		Min Dist	Crown Base	Lowest Branch	Age	Water Demand		Cat		
On site		RPA (m²)	Aspect	Aspect	SULE	Ground Cover				
T005	Cherry Laurel	70	:	3	Low	N1, E1, S1, W1	Off-site multi-stemmed tree in close proximity with boundary fence. Crown overhangs fence. All dimensions estimated due to lack of	C1	No work required.	4
		0.84	1.8		Y	Moderate	access.			
No		2.2			10+ years	Bare earth, Building, Off-site/no access				
T006	English Oak	720	20	0.5	High	N8, E4, S8, W7.5	Tree growing close (within 2 metres) to existing boundary fence. East crown extent is estimated due to fence. Evidence of past surgery to	B1	No work required.	4
		8.64	3		EM	High	reduce crown on east aspect near neighbouring dwelling resulting in			
Yes		234.5			40+ years	Building, Bare earth	inspection. Good form and condition.			
T007	Holly	130	5	5.5	Low	N2.5, E2.5, S2.5, W2.5	Tree growing within 1 metre of boundary fence. Crown overhangs and touches fence. Fair form and condition.	C1	No work required.	4
		1.56	1.5		Y	Moderate				
Yes		7.6			20+ years	Grass				
T008	Holm Oak	130		6	Low	N1.5, E1.5, S1.5, W1.5	Tree growing within 1 metre of boundary fence. Crown overhangs and touches fence. Fair form and condition.	C1	No work required.	4
		1.56	1.5		Y	High				
Yes		7.6			20+ years	Grass				
T009	Sycamore	620	1	18	High	N5, E7, S6, W5.5	Evidence of past surgery to reduce crown and subsequent regrowth on all aspects. Pruning wounds closest to stem have not occluded	B1	No work required.	4
		7.44	2		EM	Moderate	well and there is localised insect activity and decay. Otherwise no			
Yes		173.9			20+ years	Bare earth				
T010	Holly	100		5	Low	N1.5, E1.5, S1.5, W1.5	Tree growing adjacent to gravel driveway. No obvious visual defects at time of inspection. Fair form and condition.	C1	No work required.	4
		1.2	0.5		Y	Moderate				
Yes		4.5			40+ years	Grass, Gravel, Building				
T011	Holly	100		5	Low	N1.5, E1.5, S1.5, W1.5	Tree growing adjacent to gravel driveway. No obvious visual defects at time of inspection. Fair form and condition.	C1	No work required.	4
		1.2	0.5		Y	Moderate				
Yes		4.5			40+ years	Grass, Gravel, Building				
T012	Holly	100	:	5	Low	N1.5, E1.5, S1.5, W1.5	Tree growing adjacent to gravel driveway. No obvious visual defects at time of inspection. Fair form and condition.	C1	No work required.	4
		1.2	0.5		Y	Moderate	_			
Yes		4.5			40+ years	Grass, Gravel, Building				

TreeNo	Species	DBH	Не	ight	Visual	Crown Spread	Problems / Comments	BS	Work Required	Priority
		Min Dist	Crown Base	Lowest Branch	Age	Water Demand		Cat		
On site		RPA (m²)	Aspect	Aspect	SULE	Ground Cover				
T013	Holly	120		5	Low	N1.5, E1.5, S1.5, W1.5	Tree growing adjacent to gravel driveway. No obvious visual defects at time of inspection. Fair form and condition.	C1	No work required.	4
		1.44	0.5		Y	Moderate				
Yes		6.5			40+ years	Grass, Gravel, Building				
T014	Turkey Oak	880		19	High	N10, E5, S6.5, W6	Tree growing close to boundary. Long branch extents on north aspect. Telecoms cables run through crown. Black bleeds on stem	B1	Monitor annually condition of crown and extent of stem bleeds and possible beetle	3
		10.56	0.5		М	High	but solid wood underneath when resonance tested. Possible acute		exit holes.	
Yes		350.3			20+ years	Grass, Dense undergrowth, Tarmac	Agrilus biguttatus so not able to confirm diagnosis. Potentially a Phytophthora infection. Crown is sparse but no one area is more			
	I	1				1	strongly affected than others.	1		
T015	Tilia Platyphyllos	750	1	6.5	Moderate	N3.5, E3.5, S3.5, W3.5	DBH is estimated due to Epicormic growth. Epicormic growth inhibits full inspection of stem base. Evidence of past surgery to heavily	B1	No work required.	4
		9	0.5		EM	Moderate	reduce crown. Strong regrowth. Good form and condition.			
Yes		254.5			20+ years	Bare earth, Grass, Gravel				
T016	Holm Oak	800		18	High	N7.5, E5, S4, W6.5	Tree growing between on site dwelling and off-site house. Crown overhangs boundary. Stem is located within 0.5 metres of existing	B1	No work required.	4
		9.6	2		М	High	boundary fence. No access to stem base due to construction			
Yes		289.5			40+ years	Building, Bare earth, Gravel	been subject to surgery to reduce back from dwelling. No obvious visual defects at time of inspection. Good form and condition.			
T017	Taxus Baccata	500		8	Moderate	N4, E3.5, S3, W1	Tree growing close to boundary. Stem is approximately 100mm from existing fence. West crown is difficult to see due to surrounding trees	B1	No work required.	4
		6	0.5		SM	Moderate	but it appears to have been reduced to be clear of the adjacent off-			
Yes		113.1			40+ years	Bare earth, Gravel, Off-site/no access	access. Twin stemmed form. Tight union. Fair form and condition.			

Explanatory Notes for Tree Constraints Plans

- **DBH (mm)** Diameter of main stem in millimetres at 1.5 metres from ground level. Where the tree is a multi-stem, the diameter is calculated in accordance with item 4.6.1 of BS 5837:2012.
- **RPA** This is the Root Protection Area, measured in square metres and defined in BS5837:2012 as "a layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure is treated as a priority". The RPA is shown on the drawing. Ideally this is an area around the tree that must be kept clear of construction, level changes of construction operations.
- **Crown Base** Recorded in metres, the distance from ground and aspect of the lowest branch material.
- **Crown Spread** Indicates the radius of the crown from the base of the tree in each of the northern, eastern, southern and western aspects.
- Age Recorded as one of the following categories:

Y Young. Recently planted or establishing tree that could be transplanted without specialist equipment, i.e. less than 150 mm DBH.

S/M Semi-mature. An established tree, but one which has not reached its prospective ultimate height.

E/M Early-mature. A tree that is reaching its ultimate potential height, whose growth rate is slowing down but if healthy, will still increase in stem diameter and crown spread.

M Mature. A mature specimen with limited potential for any significant increase in size, even if healthy.

O/M Over-mature. A senescent or moribund specimen with a limited safe useful life expectancy. Possibly also containing sufficient structural defects with attendant safety and/or duty of care implications.

V Veteran. Although there is no exact definition this is usually a tree that is of interest biologically, culturally or aesthetically because of its age, size or condition.

D Dead.

- Safe Useful LifeRelates to the prospective life expectancy of the tree and isExpectancygiven as one of 4 categories:
 - 40 years+;
 - 20 years+;
 - 10 years+;
 - Less than 10 years.

Water Demand	This gives the water demand of the species of tree when mature, as
	given in the NHBC Standards Chapter 4.2 "Building Near Trees".

BS 5837 Main Category Using this assessment (BS 5837:2012, Table 1), trees can be divided into one of the following simplified categories, and are differentiated by cross-hatching and by colour on the attached drawing:

Category A - Those of high quality with an estimated remaining life expectancy of at least 40 years;

Category B - Those of moderate quality with an estimated remaining life expectancy of at least 40 years;

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 150 mm;

Category U - Those trees in such condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years.

- **BS 5837 Sub** Category Table 1 of BS 5837:2012 also requires a sub-category to be applied to the A, B, C, and U assessments. This allows for a further understanding of the determining classification as follows:
 - Sub-Category 1 Mainly arboricultural qualities

Sub-Category 2 - Mainly landscape qualities

Sub-Category 3 - Mainly cultural values, including conservation

Please note that a specimen or landscape feature may fulfil the requirements of more than one Sub-Category.

- **Recommended** Identifies the necessary tree work to mitigate anticipated problems and deal with existing problems in the setting at the time of the inspection.
- **Priority** This gives a priority rating to each tree allowing the client to prioritise necessary tree works identified within the Tree Survey.
 - **1** Urgent works required immediately;
 - 2 Works required within 6 months;
 - 3 Works required within 1 year;
 - 4 Re-inspect in 12 months,

Tree Preservation Order / Conservation Area Online Mapping Extract

