JK ARBORICULTURE

Arboricultural survey & implication study. – 46 Church Lane Bishopthorpe, York

October 2023

Goodlands

Railway Street

Slingsby

York YO624AL



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1. INTRODUCTION:

I am instructed by Mark Bramhall of Bramhall Blenkarn Leonard to carry out an arboricultural survey at 46 Church Lane Bishopthorpe in connection with the proposed demolition of the Doctor's Surgery and the construction of a new dwellinghouse. Ref: EML-OUT/1513/20230909-144027-144. The purpose of this report is to provide a preliminary consideration of the arboricultural implications created by the proposed development. In accordance with the feasibility and planning sections of BS5837:2012 "Trees in relation to design, demolition and construction – Recommendations", trees deemed to be within the influencing distance of the projected construction have been evaluated for quality, and longevity.

Date of inspection:

A site visit was made on 6 October 2023

2. METHODOLOGY:

The trees have been evaluated in relation to British standard 5837:2012 – Trees in relation to design, demolition and construction – Recommendations with regard to their quality and their value in the landscape. All inspections were made from ground level. Trees are living organisms; consequently, their health and structural condition may change rapidly during extremes of weather and as a result of other environmental influences. These observations are based on the general condition of the trees at the time of inspection and the experience of the

surveyor. It is strongly recommended that tree stocks are inspected twice a year, i.e., in leaf and during autumn/winter. The consultant shall not be responsible for events which happen after this time due to factors which were not apparent at the time, and the acceptance of this report constitutes an agreement with the guidelines and the terms listed in this report. The report aims to consider both the aesthetic qualities of the trees as well as their health, and a general indication as to their structural stability and the future safe life expectancy. This information along with the tree's general size and categorisation (U, A, B, or C) is recorded at Appendix 2 – Table 1. - Tree Survey Data. The report also considers the implication for trees as a consequence of the proposed development.

The Survey Plan at Appendix 3 plots the individual trees, and allocates a (T) number for each individual tree. The accurate crown spreads of individual trees, or estimation of crown spread in a particular direction, where access is not possible, are also recorded in the survey data Individual trees are also allocated a colour code with reference to BS 5837:2012. Trees in relation to Demolition, Design and Construction – Recommendations where A category trees are the highest quality trees, B category trees of good quality but downgraded owing to recognisable faults, and C category trees those of least significance or poor quality. (See Cascade Chart for tree quality at Appendix 1)

The root protection areas (RPA's) are calculated by multiplying the diameter of each tree trunk measured at 1.5m from ground level by a factor of 12 to provide a radius of a circle that should be protected during the development by fencing in accordance with the British Standard Table 1 **Tree Survey**: provides details for each tree surveyed. The trees and the radii for root protection areas are annotated on the plan at Appendix 3. All inspections were made from ground level.

Draft proposals for the site are illustrated at Appendix 3A

3. THE SITE, LOCATION, SPECIES & GENERAL CONDITION OF TREES:

The property is located on the southern side of Church Lane on a narrow rectangular plot. The trees that are the subject of this report are located along the eastern and southern boundaries of the site plus a single tree (T11) growing towards the southern end of the site and positioned just off the western boundary, T3, 4, and 6 are growing within the neighbouring property's curtilage.

The trees:

T1 is a maturing ash growing within the boundary hedge on the eastern side of the access. The upper third of the crown shows significant dieback. From my inspections of the Google maps Street View images this dieback has been occurring since at least 2008. The image below from 2008 shows the alignment of fairly recent trench running north south close to the trunk of the tree which will have at the time severed a large portion of roots on that side of the tree ang likely to have caused the current dieback in the upper crown which has steadily progressed.



T2 is a small narrow dead tree.

T3 is a large spreading sycamore formed by five main stems. The crown of this tree hangs low over the eastern boundary of the site. The tree appears to be in a healthy condition.

T4 is a single stem of sycamore, although healthy , is supressed by the dominance of T3.

T5 is a scrubby muti-stemmed self-sown small sycamore.

T6 is a large wide-spreading ash which appears to be in a reasonably healthy condition.

T7 is a medium-sized wild plum of narrow crown formed by two twisted stems. In a reasonably healthy condition.

T8 is a small narrow holly growing within the southern boundary hedge. In good health.

T9 is a scrubby hawthorn growing out of the base of the hedge close to the south western corner of the site.

T10 is a narrow wild plum in the south west corner of the site.

T11 is a young horse chestnut which is heavily infested with Horse Chestnut scale which has caused some early defoliation.

4. LEGAL PROTECTION:

The site is within Bishopthorpe Conservation Area

5. PROMINENCE IN THE LANDSCAPE:

T1 ash is prominent on passing the site in both directions, whilst only the upper parts of the crown of T3 Sycamore are visible from the village street when approaching the site from the west. The remaining trees on the site and on the neighbouring property to the east are not visible from Church Lane.

6. DEVELOPMENT PROPOSALS:

The proposal is to demolish the existing doctor's surgery and construct a new dwelling on approximately the same footprint.

7. IMPLICATION FOR TREES:

Tree No.	Species	Implications for tree

T1	Ash (Fraxinus excelsior)	The tree is proposed to be removed as part of the draft development proposals. Considering the continued decline of the tree and the prevalence of Ash die-back disease in the UK the long-term viability of this tree is uncertain.
T2		Dead tree to be removed
Т3	Sycamore (Acer psuedopatanus)	A small percentage of the prescribed root protection area, approximately 3%, is within the south eastern corner of the proposed new dwelling. This is not considered significant in terms of root loss through excavations for foundations as there is no other proposed root disturbance within the root

		protection area for this tree. Provided that those parts of the root protection area within the site and outside the proposed footprint for the new dwelling are adequately protected during the development the health of this tree should not be adversely affected.
T4	Sycamore (Acer psuedopatanus)	Unaffected by the development proposals provided that it is adequately fenced off along the alignment of its prescribed root protection area during the development phase.
		Implications for tree
Tree No.	Species	
Τ5	Sycamore (Acer psuedopatanus)	Small insignificant scrubby tree to be removed as part of the development proposals.
T6	Ash (Fraxinus excelsior)	This tree is well outside the influence of the development. Provided that the small section of root protection area within the site is fenced off along its prescribed root protection area this tree will not be affected by the development proposals.
Τ7	Wild plum (Prunus domestica)	Small insignificant tree to be removed as part of the development proposals.

T8	Holly	Small boundary tree to be retained and unaffected by the development proposals provided that the small section of root protection area within the site is fenced off along its prescribed root protection area
Т9	Hawthorn (Crataegus monogyna)	Small tree within the southern boundary hedge to be removed to accommodate a new garden shed.
T10	Wild plum (Prunus domestica)	Small tree within the southern boundary hedge unaffected by the development proposals.

Tree No.	Species	Implications for tree

T11	Horse chestnut	Small young tree growing close to the western boundary wall. Considering
	(Aesculus hippocastanum)	the tree's likely mature size and it's position close to the boundary wall, and
		a neighbouring building, the tree is to be removed as part of the
		development proposals.
H1	Privet and hawthorn hedge (Lugustrum vulgarie and Crataegus	To be retained as part of the development proposals
	monogyna)	

H2	Hathorn hedge	To be removed as part of the development proposals
	(Crataegus monogyna)	
H3 & H4	Privet	To be removed as part of the development proposals and replaced with a
	(Lugustrum vulgarie)	wall as part of the development proposals.

8. CONCLUSIONS:

The proposed draft development proposals directly affect only T1 (Ash) and T3 (Sycamore). The health of the ash appears to have been compromised by the introduction of a service trench adjacent to the trunk of the tree at least fifteen years ago. The removal of major roots at the time will have caused a check in the tree's growth and the resultant dieback in the upper parts of the crown. In addition, whilst there was no strong evidence of Ash die-back disease at the time of inspection there is a strong possibility that it could succumb to the disease in future, especially as it has been stressed by the historical trenching. In addition, the tree is immediately adjacent to the public highway and may lose dead branches under storm conditions. It is not recommended that this tree is retained in the long-term. Should this tree have to be retained it should not be further compromised by the proposed development as only a very small percentage of the proposed root protection area lies within the northern section of the footprint of the proposed new dwelling, and, although a portion of the root protection area is to be used for car parking it should be possible to provide an appropriate surface that will not cause compaction of the ground within that part of the root protection area.

The sycamore is growing in the neighbouring garden to the east but its root protection area extends into the development site and slightly into the footprint of the proposed new dwelling. This infringement is not considered significant in terms

of the proposed development footprint and should not have any detrimental effects on the long-term health of this tree provided that ground protection is implemented to protect those parts of the root protection area outside of the footprint are adequately protected.

The other trees to be removed which are growing close to the southern boundary of the site are considered to be trees of low quality and T11 Horse Chestnut is will within a few years out-grow its location close to the western boundary and a neighbouring building.

I conclude that the draft proposals could be achieved provided that the appropriate tree protection measures are specified within a detailed Arboricultural Method Statement.

LIST OF APPENDICE

Appendix 1	Cascade chart for tree quality assessment – BS 5837:2012
Appendix 2	Table 2 - Tree Data Sheets
Appendix 3	Tree Survey Plan
Appendix 3A	Draft Proposals
Appendix 4	Default Tree Protection Fencing
Appendix 5	Photographs

BS5837:2012 Table 1 - Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate	•)		Identification on plan						
Trees unsuitable for retention (see Note	e)									
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										
11	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation							
Trees to be considered for retention										
Category A Trees 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 those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	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)	0						
Category B Trees 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	cultural value	•						
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	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							

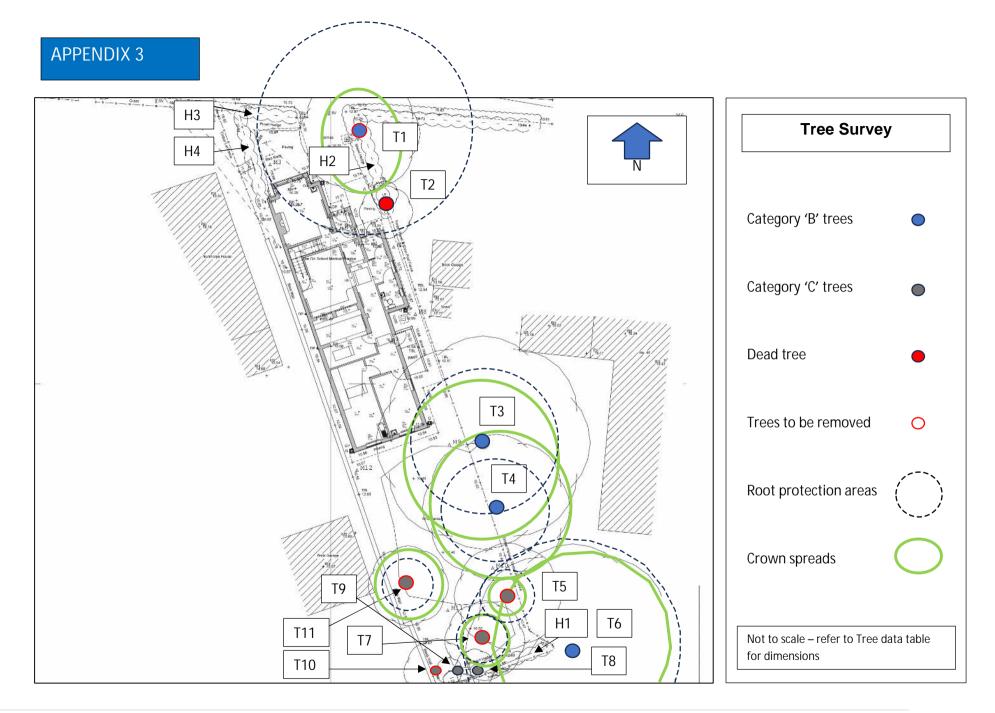
Tree	Species	Hgt	Trunk	Cr. S	Cr. Spread(M)			Height to	×	₹ AGE	Structural	Physiological		ш	Grade	RPA
No		(m)	Diam (mm)	N es	s st. es	E	W ed	1 st branch n/s/e/w	– Mature, SM semi-N	6unor -	condition	condition	emaining ontribution	stimated	BS 5837	(Rad.) metres
									Σ	≻						

T1	Ash (Fraxinus excelsior)	13	640	5.3	4.6	5.7	4.3	2.9 (w)	M	Fair	Fair, significant die- back in upper crown, possibly infected with Ash dieback disease.	≤10	C1	7.68
T2	Small dead	tree												
Τ3	Sycamore (Acer pseudoplatanus)	16	<i>5stem</i> 300 250 200 200 200	5.6	6est	6.1	6.1	2.3(w)	SM	Good	<i>Good, five stems emerging from ground level. Healthy tree.</i>	40+	<i>B2</i>	4.87
Τ4	Sycamore (Acer pseudoplatanus)	15	300	2.2	6 est.	5.0	ó <i>4.5</i>		Y	<i>Good but supressed by T3, leans to the south</i>	Good	25+	B2	3.60

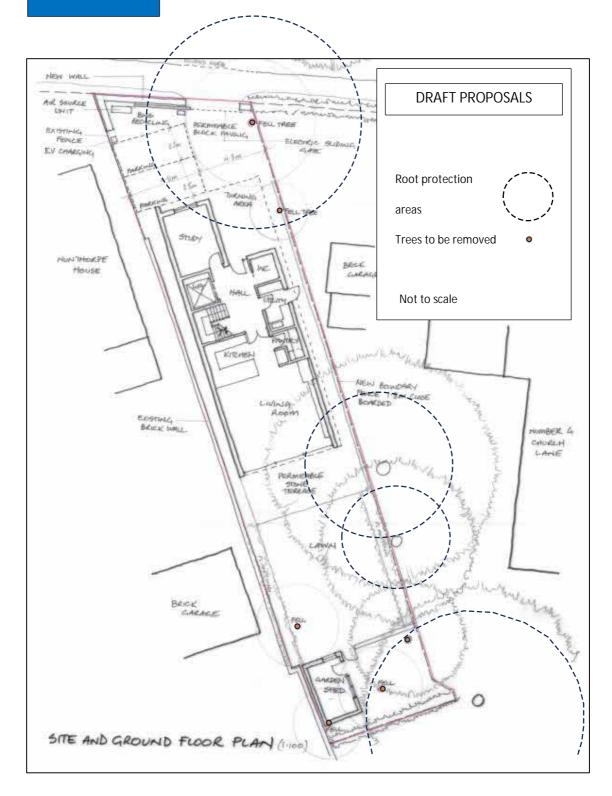
T5 T6	Sycamore Ash	3	5stem 80 80 80 60 50 650	2.6 N S 2.0 E W Not applicable	From ground level Not	Y SM	Good, small scrubby tree Good,	Good Good	20+	C2 B2	1.90 7.80
	(Fraxinus excelsior)		est		applicable						
Τ7	Wild plum Prunus domestica	10	120 120	2 1.5 2.5 2.5	1.9w	SM	Good	Good	20+	C2	2.0
Т8	Holly Ilex aquifolium	6	150	1 1 1 1	1.9w	SM	Good	Good	40+	C2	1.80
Т9	Hawthorn Crataegus monogyna	3	2 stems, 50 50	1m E W		Ŷ	Good	Good	40+	C2	1.0
T10	Wild plum Prunus domestica	7	240	1.8 2.2 2 2		Y	Good	Good	20+	C2	2.88

T11	Horse	8	140	2.4	2.7	2.3 2	1.2w	Y	Go od	Fair, heavy infestation	≤15	C1	1.68
	Chestnut	0			2., 2					of leaf minor which has	- / 0		
	Chesthat									caused leaves to brown			
	Aesculus												
	hippocastanum									with some defoliation.			
H1	Privet and	1.9-						Y	Good	Good	40+		Allow
	hawthorn	2.1											1m
	(Lugustrum												
	ovalifolium												
	and Crataegus												
	monogyna)												
	monogynaj												
H2	hawthorn	2						М-	Good	Fair	20+		To be
													removed
	(Crataegus												
	monogyna)												
H3	Privet and	1.8						M	Good	Good			To be
	hawthorn												removed
	(Lugustrum												
	ovalifolium												

H4	Privet	1.8		М	Good	Fair, die-back at		To be
						northern section		removed
	(Lugustrum							
	ovalifolium)							



APPENDIX 3A



APPENDIX 4



T1 Ash showing die-back in upper crown



T3 Sycamore





T4 Sycamore

T5 Sycamore





T6 Ash







T8 Holly (centre), T9 Hawthorn

T10 Wild Plum



H2 Hawthorn



T11 Horse chestnut

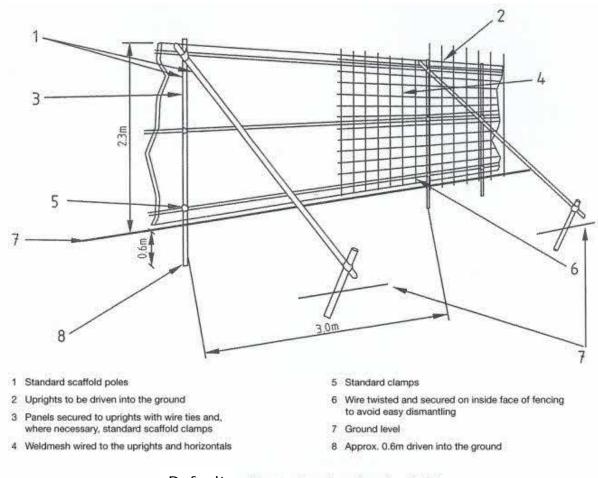




H3 Privet

H4 Privet

APPENDIX 5



Default - Protective fencing for RPA