## ARBORICULTURAL IMPACT ASSESSMENT

(INC. TREE SURVEY TO BS 5837:2012)

CLIENT - Montague Jamieson

PROJECT - 49 High Street

DOC. REF - P2925-AIA01 V1

PLANNING REF - n/a

CREATION DATE - 29/11/2022

W. www.lignaconsultancy.co.uk
E. info@lignaconsultancy.co.uk
T. 01284 598008

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## PURPOSE OF DOCUMENT

This document assesses the anticipated impact that the proposed scheme will have on the surrounding tree population, and outlines possible technical design considerations and mitigation measures that should be implemented in order to minimise the overall arboricultural impact.

## ARBORICULTURAL DOCUMENT REGISTER

Planning Do	ocuments	Version Issued		
Document	Ref.	Current Version	Document Date	
Arb. Impact Assessment	P2925-AIA01	V1	29/11/2022	
Arb. Site Plan (Existing)	P2925-ASP01	V1	23/11/2022	
Arb. Site Plan (Proposed)	P2925-ASP02	V1	23/11/2022	



## 1. SUMMARY

#### 1.1 PROPOSED DEVELOPMENT

1.1.1 Renovation of existing buildings with a small extension on to existing foundations.

#### 1.2 TREE SURVEY

1.2.1 The following woody vegetation was considered to be of note in relation to any development of the site: 8 individual trees, 2 groups of trees.

#### 1.3 PROTECTION MEASURES

1.3.1 The implementation of tree protection measures will be required to ensure that the site's retained trees remain undamaged. Information as to the requirements of such can be found in *Section 3.8*.

#### 1.4 TECHNICAL DESIGN CONSIDERATIONS

1.4.1 The design team must consider and implement the design advice provided in *Section 3.9* of this document.

#### 1.5 PROVISION OF NEW TREE PLANTINGS

1.5.1 New tree plantings are not considered to be necessary as part of the proposed scheme.

#### 1.6 CONCLUSION

1.6.1 The table below summarizes the trees which will be lost, pruned, or protected by special measures during the development project.

	Tree Category			
	А	В	С	U
Trees/groups to be removed (* groups to have sections removed)	-	-	Т8	-
Hedges/shrubs to be removed (* hedges to have sections removed)	-	-	-	-
Trees/groups/hedges to be pruned	-	-	-	-
Trees to be subjected to RPA incursions (excl. no-dig techniques)	Т4	-	Т2	-

#### ARBORICULTURAL IMPACT ASSESSMENT



Trees to be protected through arboricultural measures / supervision (other than barriers and ground protection)	Т4	-	T2
Trees requiring specialist design considerations (for purposes of minimising arboricultural impact)	Т4	-	Т2

1.6.2 Considering the anticipated arboricultural impact from the construction activities associated with the development of the site, and the implementation of the proposed mitigation measures outlined in this document, the proposed development's arboricultural impact is considered to be **low**.



## 2 GENERAL INFORMATION

#### 2.1 BRIEF

2.1.1 Ligna Consultancy Ltd were instructed by the client, Montague Jamieson, to undertake a tree survey in accordance with BS 5837:2012 and to prepare an arboricultural impact assessment for the proposed scheme at 49 High Street.

#### 2.2 PROPOSED DEVELOPMENT

2.2.1 Renovation of existing buildings with a small extension on to existing foundations.

#### 2.3 **SITE**

2.3.1 The site discussed within this report is located at:

49 High Street Lakenheath, Brandon, Suffolk, IP27 9DS

#### 2.4 PROJECT CONTACT

Role	Name	Telephone	Email
Arboricultural Surveyor	Alistair Godfrey	01284 598008	alistair@lignaconsultancy.co.uk

#### 2.5 SCOPE OF REPORT

- 2.5.1 This report consists of the following:
  - Appraisal of arboricultural impact
  - Outline of tree protection & mitigation measures
- 2.5.2 Appendices included with this report are:
  - Tree Survey
  - Site Photos
  - Arboricultural Site Plan (Existing) (P2925-ASP01 V1)
  - Arboricultural Site Plan (Proposed) (P2925-ASP02 V1)

#### 2.6 DOCUMENTS PROVIDED

- 2.6.1 The following documents were submitted to Ligna Consultancy Ltd for consideration:
  - Existing Site Plan (388\_02\_A Existing Ground Floor Plan, Elevations, Section and Site Layout)
  - Proposed Site Plan (388\_03\_E Proposed Floor Plans, Elevations, Section, Site Layout and 3Ds)



#### 2.7 AUTHOR

- 2.7.1 Alistair Godfrey is a tree surveyor. He has worked in arboriculture for 6 years, initially working with tree surgery firms to carry out domestic tree work operations. He has worked at Cambridge University Botanic Gardens for 3 years on the Tree and Shrub team and has recently worked on a large-scale tree planting plan with the National Trust. He has a level 4 Certificate in arboriculture and LANTRA Professional Tree Inspection.
- 2.7.2 This report has been checked and edited by Benjamin Hallinan MArborA.

#### 2.8 LIMITATIONS

- 2.8.1 Detailed inspections and recommendations relating to tree condition and health are not included within this report.
- 2.8.2 Any engineering solutions presented within this document are recommendations for their suitability from an arboricultural viewpoint. The architect and structural engineers should make the final decision on the suitability of the methods advised.
- 2.8.3 Information provided by third parties, considered in the creation of this report, is assumed to be correct.

#### 2.9 PROTECTED TREES

- 2.9.1 Details of trees (if any) that are protected by Tree Preservation Orders (TPOs) or are situated within Conservation Area are available upon request.
- 2.9.2 It is the standard approach of Ligna Consultancy not to obtain this information from the LPA prior to an application, as the LPA will provide details of nearby protected trees as part of the consultation.
- 2.9.3 It should also be noted that granted planning permission that includes tree work specifications overrides Tree Preservation Orders and Conservation Area protections (approved works only).

#### 2.10 NESTING BIRDS / BATS

- 2.10.1 Officially, the 'Bird Nesting Season' is between February and August (Natural England). During this time, it is recommended that vegetation works (tree or hedge cutting) or site clearance is avoided if there is a reasonable potential for the disruption of nesting birds.
- 2.10.2 All parties involved in the management and/or development of a site must actively avoid causing disturbance and disruption to nesting birds. Failure to do this may result in an infringement of the *Wildlife and Countryside Act* 1981 and the *European Habitats Directive* 1992 / Nesting Birds Directive.
- 2.10.3 When tree or vegetation clearance work has to be undertaken during the nesting season, a pre works survey needs to be carried out by a suitably competent person.
- 2.10.4 Generally, it should be assumed that birds will be nesting in trees, and it is down to the site/project manager that any activities that have the potential to disturb nesting birds are assessed for their suitability and potential impact,



and records are kept that show that any works carried out in the management of trees and other vegetation have not disturbed nesting birds.

#### 2.11 SUMMARY OF TERMS

Term	Definition			
Species	The type of tree.			
Stem	The main woody upright portion of a tree that is supported by the roots and supports the crown.			
Branch Spread	The length of a tree's branches from stem to tip measured from the north, east, south and western sides of the crown.			
BS 5837	The commonly used name for the official guidance document relating to trees and development (BS 5837:2012 - Trees in relation to design, demolition and construction – Recommendations)			
Canopy / Crown	The branches, leaves, and reproductive structures extending from the trunk or main stems of a tree/trees.			
DBH	Diameter of a tree's stem, measured as per BS 5837:2012			
RPA	The root protection area (RPA) is 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.			
Facilitation Tree Works	Tree pruning/felling required in order to facilitate the implementation of the proposed development.			
Tolerance	The relative tolerance the species can show to construction related activities such as root-loss, soil compaction and other development pressures.			
Category (Cat.)	Categorisation of the tree's value based on the methodology shown in Appendix 1, A1.4. This rating takes into account the size, quality, condition, estimated remaining life expectancy and legal status of each tree.			

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2.12.1 This report was prepared for use by the Clients and their contractors for planning purposes. The report and its appendices may not be copied, modified, or distributed beyond the necessary parties without the written consent of Ligna Consultancy Ltd.



## 3 ARBORICULTURAL IMPACT ASSESSMENT

## ASSESSMENT & APPRAISAL OF IMPACTS

The following section lists and discusses any aspects of the proposed design and its implementation that has the potential to harm nearby trees, and outlines possible mitigation measures:

#### 3.1 TREES TO BE REMOVED TO FACILITATE THE PROPOSED SCHEME

Affected Trees	Cat. C: T8 (Cupressus spp.)
Impact Appraisal & Mitigation	T4 is due to be removed owing to its location within the proposed layout. Due the low arboricultural significance of this tree, any amenity or arboricultural impact resulting from its removal is considered to be negligible. The removal does not require offsetting through new plantings.
Significance (with mitigation)	Negligible

#### TREES TO BE PRUNED AS PART OF THE PROPOSED SCHEME

Affected Trees	n/a
Pruning works	No trees are expected to be pruned as part of this scheme.
Significance (with mitigation)	Negligible

#### 3.

.3 DEMOLITION OF EXISTING WALL						
Affected Trees	Cat. A: T4 (Sequoiadendron giganteum)					
	Cat. C: T2 (Cupressus x leylandii)					
Impact Whilst the demolition of the garden wall will not directly impact any retained tree, it has the potential to cause damage to nearby trees if done incorrectly.						
	Damage can be prevented through the use of the following arboriculturally sensitive methods:					
	- Any plant and vehicles engaged in demolition works must either operate from outside the RPA of all trees or from atop existing surfacing or temporary ground protection.					
	- Should the retention of the existing foundations be unfeasible, their removal must be accomplished via excavation on the southern edge of					



the foundations. These excavations must not exceed the depth of the foundation, and should not extend more than 0.3m from the wall. Significance Nealiaible

(with mitigation)

#### INSTALLATION OF NEW GARDEN WALL

Affected Trees

Cat. A: T4 (Sequoiadendron giganteum)

Cat. C: T2 (Cupressus x leylandii)

**Impact** Appraisal & Mitigation

The excavation and installation of the new garden wall foundations has the potential to result in sizeable RPA incursions to T2 and T4 if traditional construction methods are used.

Owing to the size of the potential incursion, structural beams, laid at or above ground level should be used to bridge intact tree roots. This will reduce the number of roots severed during the installation of the foundations.

Assuming the above methodology is used, any lasting impact on the overall health and condition of the trees is believed to be well within tolerable limits.

Significance (with mitigation)

Negligible

#### 3.5 INSTALLATION OF NEW SURFACING

Affected Trees

Cat. A: T4 (Sequoiadendron giganteum)

Cat. C: T2 (Cupressus x leylandii)

**Impact** Appraisal & Mitigation

As part of the proposed scheme, new surfacing is to be installed within the RPAs of T2 and T4.

To prevent root loss and disturbance, a specialist no-dig 3D cellular system (Cellweb TRP) with a depth of at least 100mm (refer to manufacturer's quidance on suitable loading) must be used as the subbase for the new surfacing. (see Arb. Site Plan Proposed for required area of specialist surfacing).

Prior to this being installed, the top 50mm of turf may be removed manually.

This type of specialist surfacing allows for the retention of underlying tree roots while protecting against possible soil compaction damage and allowing the continuation of water and gas exchange between soil and air.

Significance (with mitigation)

Negligible



#### 3.6 IMPLEMENTATION OF PROPOSED SCHEME

Affected Trees	All retained trees
Impact Appraisal & Mitigation	During the construction process, all retained trees are susceptible to damage from general construction related activities.
3	In order to reduce the risk of construction damage to the site's retained trees, temporary ground protection and stem protection must be installed before the commencement of any site works.
Significance (with mitigation)	Negligible

#### TREE RELATED SHADING AND NUISANCES

#### 3.7 LONG-TERM IMPACT OF RETAINED TREES ON PROPOSED SCHEME

#### 3.7.1 Shading

3.7.1.1 None of the trees observed are considered to possess a significant potential for a negative shading impact on any of the proposed dwellings; any tree-related shading of property is expected to be minimal, transient and well within the recommended levels outlined in BRE 209 guidance.

Note - Shading arcs, as discussed in BS 5837, have not been included on the Arb. Site Plans owing to their poor accuracy, and the extreme unlikelihood that the shading will not be within tolerable levels. Ligna Consultancy Ltd have undertaken many detailed shading assessments, and in all situations, light levels have been shown to be well within acceptable levels (BRE 209). Situations where lighting levels may not be suitable are most likely to involve rows of large dense conifers near to dwellings.

#### 3.7.2 Canopy Growth

3.7.2.1 The layout of the scheme has been designed with consideration of the location and growth potential of nearby trees. Owing to such, no noteworthy contention between tree canopies and property are anticipated.

#### 3.7.3 Nuisances

3.7.3.1 Owing to the tree species present within and around the site, and the layout of the proposed scheme, additional unreasonable tree-related nuisances, such as leaf and fruit-fall, are not thought to exist beyond what might generally be considered as acceptable limits.



#### MITIGATION PROPOSAL

The following proposals, if approved, should be detailed within an arboricultural method statement and tree protection plan prior to the commencement of any development associated works:

#### 3.8 PROTECTIVE MEASURES

#### 3.8.1 Temporary Ground Protection

3.8.1.1 Ground protection boards shall be installed within parts of the RPAs of T3, T4 and T7 to protect them from soil compaction damage during the construction of the proposed scheme.

#### 3.8.2 Tree Protection Barriers

3.8.2.1 Barriers shall be erected, and a construction exclusion zone established, to protect all retained trees during the construction of the proposed scheme.

#### 3.8.3 Arb. Sensitive Demolition of Garden Wall

- 3.8.3.1 Any plant and vehicles engaged in demolition works must either operate from outside the RPA of all trees or from atop existing surfacing or temporary ground protection.
- 3.8.3.2 Should the retention of the existing foundations be unfeasible, their removal must be accomplished via excavation on the southern edge of the foundations. These excavations must not exceed the depth of the foundation, and should not extend more than 0.3m from the wall.

#### 3.9 TECHNICAL DESIGN CONSIDERATIONS

#### 3.9.1 Installation of New Garden Wall

3.9.1.1 To reduce root loss resulting from the installation of the building foundations, structural beams, laid at or above ground level should be used to bridge intact tree roots. These should be based on hand dug piers.

#### 3.9.2 <u>Use of Specialist No-Dig Surfacing within RPAs</u>

- 3.9.2.1 A ≥100mm deep no-dig 3D geocell system (we recommend Cellweb TRP) must be used for all new surfacing within the RPAs of T2 and T4.
- 3.9.2.2 Owing to the nature of no-dig surfacing, the FSL will likely be increased as a result of its use. This may result in the need to increase the level of areas of adjacent existing surfacing so as to provide a consistent surface level.

#### 3.9.3 Routing and Installation of Utility Apparatus



- 3.9.3.1 Wherever possible, utility apparatus should be routed outside of any RPAs. Failing this, services should be routed together in common ducts, with any inspection chambers being located outside of the RPA.
- 3.9.3.2 Where it is necessary for underground services to intersect an RPA, specialist excavation methods should be used.
- 3.9.3.3 In such situations, the design team should consult with Ligna Consultancy in order to establish a suitable services route, and specify the specialist excavation method most suitable.

#### 3.9.4 Potential for Subsidence & Heave

3.9.4.1 Where shrinkable sub-soils may be present, the potential for tree related subsidence and/or ground heave (resultant from proposed tree removals) must be considered by a structural engineer prior to the final specification of foundation depth/type.

#### 3.10 PROVISION OF NEW TREE PLANTINGS

3.10.1 New tree plantings are not considered to be necessary as part of the proposed scheme.

#### CONCLUSION

#### 3.11 SUMMARY OF THE DEVELOPMENT'S OVERALL IMPACT

3.11.1 The table below summarizes the trees which will be lost, pruned, or protected by special measures during the development project.

	Tree Category			
	А	В	С	U
Trees/groups to be removed (* groups to have sections removed)	-	-	Т8	-
Hedges/shrubs to be removed (* hedges to have sections removed)	-	-	-	-
Trees/groups/hedges to be pruned	-	-	-	-
Trees to be subjected to RPA incursions (excl. no-dig techniques)	Т4	-	Т2	-
Trees to be protected through arboricultural	Т4	-	T2	

#### ARBORICULTURAL IMPACT ASSESSMENT



measures / supervision (other than barriers and ground protection)			
Trees requiring specialist design considerations (for purposes of minimising arboricultural impact)	Т4	-	Т2

3.11.2 Considering the anticipated arboricultural impact from the construction activities associated with the development of the site, and the implementation of the proposed mitigation measures outlined in this document, the proposed development's arboricultural impact is considered to be **low**.



## 4 APPENDICES

#### 4.1 APPENDICES

4.1.1 The following appendices are included within this document:

Appendix	Document
1	Tree Survey
2	Site Photos
3	Arboricultural Site Plan (Existing) (P2925- ASP01)
4	Arboricultural Site Plan (Proposed) (P2925- ASP02)



# APPENDIX 1 TREE SURVEY



### APPENDIX 1 – TREE SURVEY

#### A1.1 SITE VISIT

i) A site visit was undertaken by Alistair Godfrey of Ligna Consultancy, on the 23/11/2022.

#### A1.2 METHOD OF DATA COLLECTION

- i) Data was collected using the recommendations laid out in British Standard 5837:2012 as a guide. All observations were from ground level without detailed or invasive investigations.
- ii) Measurements have been calculated using a laser measurer and diameter tape/calipers. Where this was not possible or reasonably practical, measurements have estimated by eye.
- iii) The trees were surveyed and assessed impartially and irrespective of the proposed development. Management recommendations should be implemented regardless of any proposed development for reasons of sound arboricultural management or safety.
- iv) The method used for categorizing the trees can be seen in section A1.3. This is an improved variation of the method suggested in BS 5837:2012.
- v) BS 5837:2012 recommends that better quality (category A and B trees) are retained where possible. Planning permission overrides a Tree Preservation Order and Conservation Area. Furthermore, trees are a material consideration in the UK planning system irrespective of their legal status. Trees in land adjacent to the site are considered where they may be impacted by development; for example, when roots or branches encroach onto the site.
- vi) Trees may be recorded as group or woodland where:
  - The canopies touch.
  - The trees have more group value than individual merit.
  - They are part of a formal landscape feature like an avenue.
  - It is impractical to record them individually.
- vii)Trees within groups or woodlands etc. are recorded individually where it is necessary to distinguish them from others.



### A1.3 SURVEY KEY & GLOSSARY OF TERMS

Term	Definition					
Ref.	Tree reference number					
Tag	Physical tag attached to some trees with unique identification number (not the same as Ref.)					
Species	The trees' scientific and common name					
Height	The measured/estimated height of the tree (measured in metres)					
Branch Spread	The length of a tree's branches from stem to tip measured from the north, east, south and western sides of the crown.					
Crown Clearance	Crown clearance is the measurement of height between the trees branches in the outer third of its crown and the floor. Crown clearance has only been recorded where it is considered to be of relevance to the proposed scheme. The height of the first significant branch is also generally recorded and is discussed where relevant.					
DBH	Diameter of a trees' stem, measured as per BS 5837:2012					
RPA	The root protection area (RPA) is 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.					
Life Stage	A quantification of a trees' state of physical maturity:					
	• Young					
	Semi-mature					
	<ul><li>Early-Mature</li><li>Mature</li></ul>					
	Invalure     Late-mature					
	Veteran					
	Dead					
Structural	<ul> <li>Summary statement relating to the structural condition of a tree:</li> <li>Good (no apparent problems / normal optimal condition for a tree of its species.)</li> <li>Fair (minor problems, no instabilities)</li> <li>Poor (major problems, potential instabilities)</li> </ul>					
	Unstable (extreme problems, likely to result in failure)					
Vitality	Summary statement relating to the overall observed vitality of a					
· · · · · · · · · · · · · · · · · · ·	tree:					
	<ul> <li>Good (no apparent problems / normal optimal vitality for a tree of its species)</li> </ul>					
	Fair (minor / temporary reduction in tree vitality)					
	<ul> <li>Poor (major reduction in tree vitality, often with some branch dieback)</li> </ul>					
	Dead / Dying (extreme / total reduction in tree vitality)					
General	Remedial tree works recommended regardless of whether the site					
Management Recommendations	is developed or not.					
Facilitation Tree Works	Tree pruning/felling required in order to facilitate the implementation of the proposed development.					
Development Related Tree Works	Tree works that are required as part of the proposed scheme.					
Tolerance	The relative tolerance the species can show to construction related activities such as root-loss, soil compaction and other development pressures.					
Cat.	Categorisation of the tree's value based on the methodology shown in A1.4. This rating takes into account the size, quality, condition, estimated remaining life expectancy and legal status of each tree.					



### A1.4 TREE CATEGORISATION METHODOLOGY

		Criteria / Subcategories		
Category and definition	1 – Mainly arboricultural qualities	2 – Mainly landscape qualities	3 – Mainly cultural values/conservation	Label on plan
Trees worthy of being a ma	terial constraint:			
Category A  Trees of high quality, capable of providing a significant contribution to local amenity (usually large in size) and that generally possess an estimated remaining life expectancy of 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)	Cat. A
Category B  Trees of moderate quality and with an estimated remaining life expectancy of 20+ years, that are capable of providing a notable contribution to local amenity but are lacking the condition of category A trees (usually medium to large in size).	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); 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 value	Cat. B
Trees worthy of material co	nsideration:			
Category C  Trees of a low quality, small size, or incapability to be protected within the legal framework. These trees generally possess an estimated remaining life expectancy of 10+ years.	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	Cat. C
Trees unsuitable for retention	on owing to condition:			
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.	early loss is expect unviable after rem whatever reason, pruning)  Trees that are deal irreversible overal  Trees infected wit	h pathogens of significance rby, or very low-quality trees	ng those that will become es (e.g. where, for er cannot be mitigated by gnificant, immediate, and to the health and/or safety	Cat. U



#### A1.5 SUMMARY OF DATA

- i) The following woody vegetation was considered to be of note in relation to any development of the site: 8 individual trees, 2 groups of trees.
- ii) The following tables show the category distribution and life stage of the trees distributed within the site:

	Tree Category					
	А	В	С	U		
Individual Trees	1	3	4	-		
Groups	-	-	2	-		
Woodland Groups	-	-	-	-		
Hedges	-	-	-	-		
Shrubs	-	-	-	-		

Table 1 - Table showing category distribution within site.

	Life Stage							
	Young	Semi- Mature	Early- Mature	Mature	Late- Mature	Veteran	Dead	
Individual Trees	-	3	2	3	-	-	-	
Groups	-	2	-	-	-	-	-	
Woodland Groups	-	-	-	-	-	-	-	
Hedges	-	-	-	-	-	-	-	
Shrubs	-	-	-	-	-	-	-	

Table 2 - Table showing life stage distribution within the site.

TREE SURVEY (BS 5837:2012) SCHEDULE OF TREES

Ref.	Tag Species	Height (m)	Crown (N/E/S/W)	Crown Clearance (m)	DBH (mm)	Life Stage	Structural	Vitality	Additional Notes	General Management Recommendations	Priority	Development Related Tree Works	Tolerance	RPA Radius (m)	RPA Area (m²)	Cat.
T1	Aesculus hippocastanum (Horse chestnut)	21.5	8/8/8/8	2.5	900	Mature	Good	Good	On neighbouring property in church yard. Minor deadwood in crown - not of concern. Estimated dimensions used due to access restrictions.				Moderate - Good	10.8	366.4	B1
T2	Cupressus x leylandii (Leylandii)	13	6.6/6/6/6	2	690	Early- Mature	Good	Good	Multi-stemmed tree. Tight union. Minor deadwood in crown - not of concern. One stem bifurcates at 2 metres. Tree is causing minor disruption to the adjacent hard surfacing - low risk of causing trips and falls.				Good	8.3	215.3	C3
Т3	Ginkgo biloba (Ginkgo)	16	6 / 5.5 / 5.5 / 5	2	730	Mature	Good	Good	Minor deadwood in crown - not of concern.				Good	8.8	241.1	B1
Т4	Sequoiadendron giganteum (Giant redwood)	25	5/5/5/5	1.5	1320	Mature	Good	Good	New steps installed at base of tree - not of concern at this point in time. Minor deadwood in crown - not of concern.				-	15.8	788.2	A1
T5	Cupressus x leylandii (Leylandii)	6	3/3/3/3	2	215	Semi- Mature	Good	Good	Crown lifted to 2 metres.				Good	2.6	20.9	C3
Т6	Quercus robur (English oak)	13	5/5/5/5		400	Early- Mature	Good	Good	On neighbouring property. Estimated dimensions used due to access restrictions. Stem separates in to 3 main stems at 3 metres. Minor deadwood in crown - not of concern.				Moderate - Good	4.8	72.4	В2
Т7	llex spp. (Holly)	6.5	2/2/2/2	1.5	220	Semi- Mature	Good	Good					Good	2.6	21.9	C3
Т8	Cupressus spp. (Cypresses)	3.5	1/1/1/1		240	Semi- Mature	Good	Good				Remove	Good	2.9	26.1	C3
G1	Cupressus x leylandii (Leylandii)	2	1/1/1/1		50	Semi- Mature	Good	Good	On neighbouring property. Estimated dimensions used due to access restrictions.				Good	0.6	1.1	C3
G2	Mixed group	2	1/1/1/1		30	Semi- Mature	Good	Good	Mixed shrubs: Choisya ternata, Viburnum tinus, Euonymus Spp.				-	0.4	0.4	C3

Tree Survey (BS 5837) - 49 High Street (P2925)

APPENDIX 1



# APPENDIX 2 SITE PHOTOGRAPHS

Note - Below is a selection of site photographs intended for general site context. Should you require supplementary site/tree photographs please contact <a href="mailto:info@lignaconsultancy.co.uk">info@lignaconsultancy.co.uk</a>:



Figure 1 – Existing car port.

### APPENDIX 2 – SITE PHOTOGRAPHS



Figure 2 – Existing barn.



Figure 3 – T4 looking northeast.

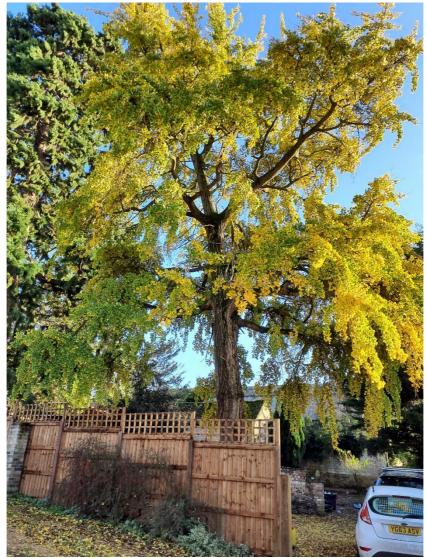


Figure 4 – Looking south towards the site at T3.

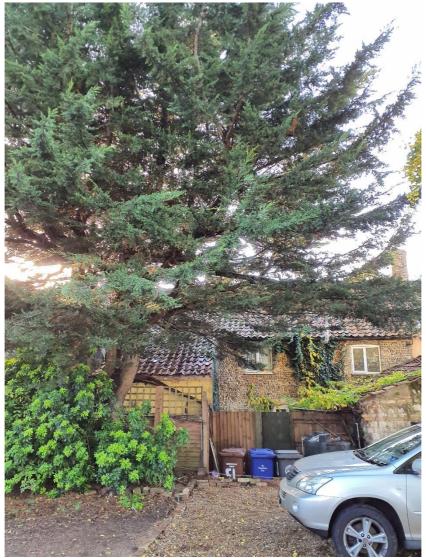
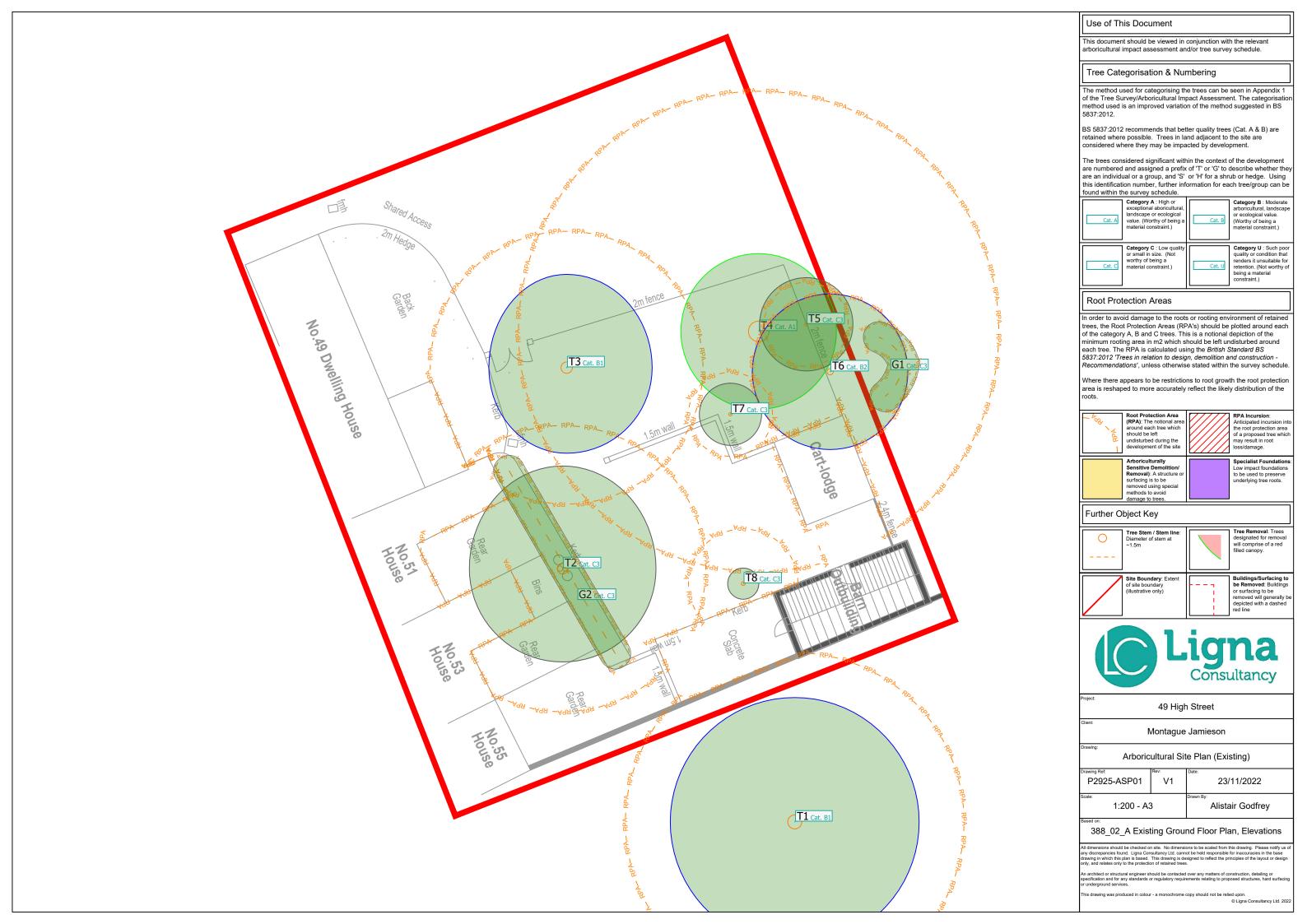
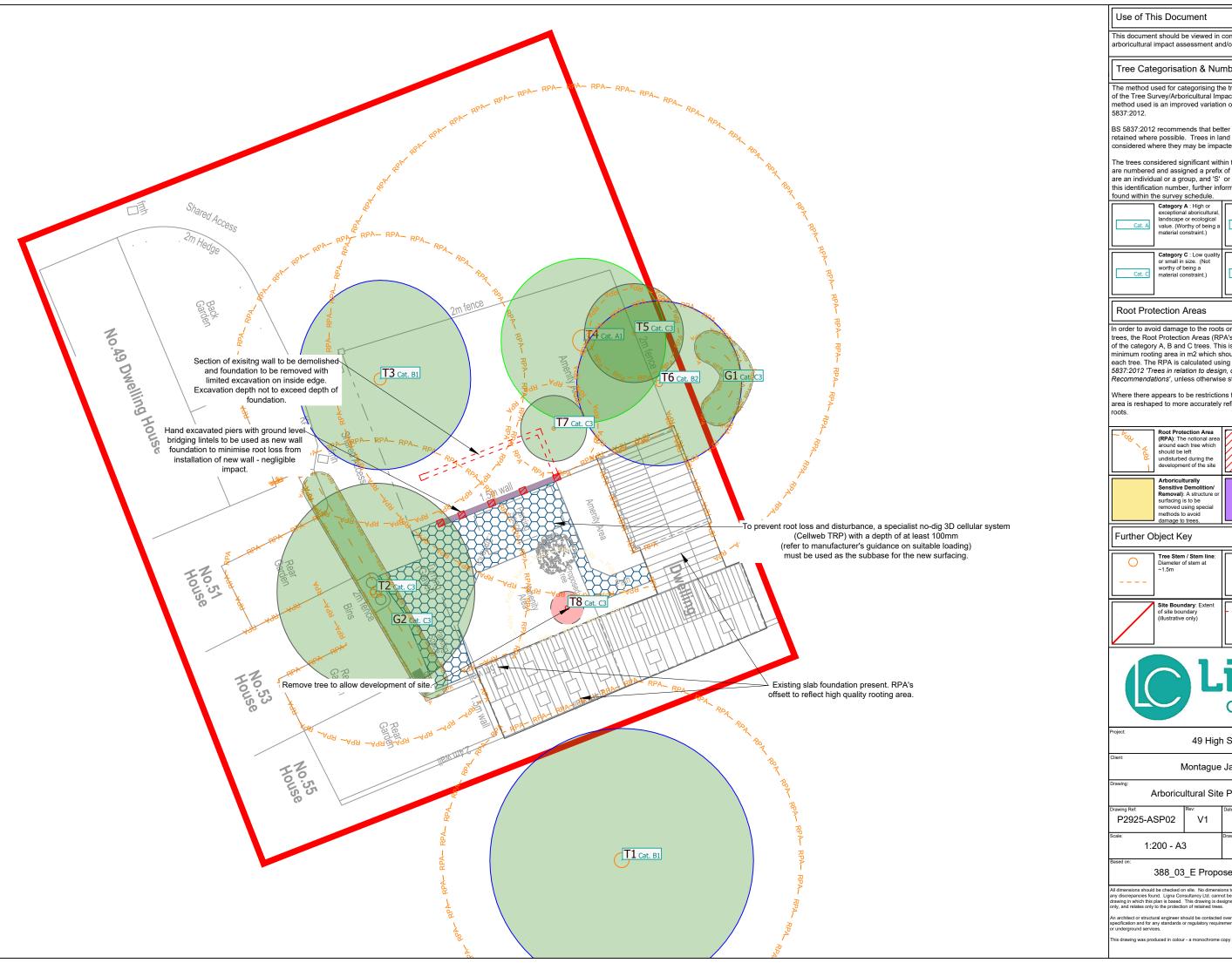


Figure 5 – T2 to be removed.

# APPENDIX 3 ARB. SITE PLAN (EXISTING)



# APPENDIX 4 ARB. SITE PLAN (PROPOSED)



This document should be viewed in conjunction with the relevant rboricultural impact assessment and/or tree survey schedule

#### Tree Categorisation & Numbering

The method used for categorising the trees can be seen in Appendix 1 of the Tree Survey/Arboricultural Impact Assessment. The categorisatio method used is an improved variation of the method suggested in BS

BS 5837:2012 recommends that better quality trees (Cat. A & B) are retained where possible. Trees in land adjacent to the site are considered where they may be impacted by development.

The trees considered significant within the context of the development are numbered and assigned a prefix of 'T' or 'G' to describe whether they are an individual or a group, and 'S' or 'H' for a shrub or hedge. Using this identification number, further information for each tree/group can be found within the survey schedule.

Cat. A	exceptional aboricultural, landscape or ecological value. (Worthy of being a material constraint.)	Cat. B	or ecological value. (Worthy of being a material constraint.)
Cat. C	Category C : Low quality or small in size. (Not worthy of being a material constraint.)	Cat. U	Category U : Such poor quality or condition that renders it unsuitable for retention. (Not worthy of being a material constraint.)

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPA's) should be plotted around each of the category A, B and C trees. This is a notional depiction of the minimum rooting area in m2 which should be left undisturbed around each tree. The RPA is calculated using the *British Standard BS* 5837:2012 'Trees in relation to design, demolition and construction -Recommendations', unless otherwise stated within the survey schedule

Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the







Buildings/Surfacing to be Removed: Buildings or surfacing to be removed will generally be depicted with a dashed red line



49 High Street

Montague Jamieson

Arboricultural Site Plan (Proposed)

P2925-ASP02	V1	23/11/2022
Scale:		Drawn By:
1:200 - A3	Alistair Godfrey	

388\_03\_E Proposed Floor Plans.

All dimensions should be checked on site. No dimensions to be scaled from this drawing. Please notify us of any discrepancies found. Ligna Consultancy Ltd. cannot be held responsible for inaccuracies in the base drawing in which this plan is based. This drawing is designed to reflect the principles of the layout or design only, and relates only to the protection of retained trees.



W. www.lignaconsultancy.co.uk
E. info@lignaconsultancy.co.uk
T. 01284 598008

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