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ARBORICULTURAL IMPACT ASSESSMENT AND METHOD STATEMENT

62 Bridge Way, TW2 7JJ

Report by

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On the instructions of Lorraine Manson

19th July 2021



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1 Report summary

- 1.1.1 This report has been prepared to accompany the planning application for the site at 62 Bridge Way, TW2 7JJ.
- 1.1.2 T6, T9, T10, T14, T15, T16, T17, T18 and a section of T2 require removal to facilitate proposed development and the landscape scheme.
- 1.1.3 The tree group T3 was identified as unsuitable for retention and such the trees require removal.
- 1.1.4 All retained trees will require tree protection barriers around the RPAs.
- 1.1.5 Provided precautions to protect the identified trees are specified and implemented through the measures included in this report; the development proposal will have a little or negligible impact on the retained trees or their wider contribution to an area amenity and character if the methods detailed in this report will be followed.



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2 Introduction and report background

2.1 Instruction

- 2.1.1 I have been instructed by Loraine Manson to carry out a tree survey and produce the Arboricultural report in support of a planning application for the site at 62 Bridge Way, TW2 7JJ.
- 2.1.2 The purpose of the survey is to cover trees within the site boundary and its immediate curtilage to assess the impact of the development on trees and the impact of retained trees on the development. The Section 5 Arboricultural Method Statement (Section 5 of this report) specifies the principles, which need to be adopted during the demolition and construction of the development. Although any specific activities proposed in RPAs may require agreement by LPA if requested in the reserved matters stage. The report produced on the survey data allows the Local Planning Authority (LPA) to assess information about trees as part of the planning submission following principles of British Standard BS5837:2012 Trees in relation to design, demolition and construction Recommendations.

2.2 Methodology

- 2.2.1 The methodology of Visual Tree Assessment (VTA), described by Mattheck (2007), was followed. The survey covers trees with a trunk diameter of 75mm or above and any significant vegetation on the development site.
- 2.2.2 The best intentions were made to produce accurate measurements; however, some dimensions were estimated due to the limitation of the access, dense undergrowth e.g.
- 2.2.3 Data collected for each tree includes the following information:
 - Sequential reference number, i.e. T1, T2, T3 etc.
 - Species (Botanical Name in Latin)
 - Height (in meters).
 - Stem diameter recorded in mm
 - Branch Spread, recorded in meters at the extents of the 4 Cardinal Points, i.e. North, East, South & West.
 - Ground clearance, representing a level of first significant branching or canopy



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- Life stage: Y Young, SM Semi Mature, M Mature
- Condition comment: structural and/or physiological condition.
- Overall condition: Good, Moderate, Poor, In decline
- Estimated remaining contribution: >10 years, 10 + years, 20 + years, 30+ years, 40 + years.
- BS 5837:2012 Category 'U' or 'A' to 'C' grading with the subcategory 1, 2 or 3
- Tree Work recommendations in the context of the site current use, during the development and after the development.
- 2.2.4 Trees were categorized into 'A', 'B', 'C' and 'U' category graded in the guidance of BS5837: 2012.
 - Category A trees of high quality and value, with an estimated life expectancy of at least 40 years.
 - Category B trees of moderate quality and value. An estimated life expectancy of at least 20 years.
 - Category C trees of lower quality and value. An estimated life expectancy of at least 10 years, and with a stem diameter of up to 150mm measured at 1.5m from ground level.
 - Category U dead, dying or unsuitable for retention. Life expectancy of less than 10 years

2.3 Limitation

- 2.3.1 The survey was undertaken from the ground level using basic tools without detailed investigations. The data collected can be found in the tree schedule in Appendix 2.
- 2.3.2 The tree condition can rapidly change due to unpredictable factors, such as climatic and manmade events. The risk assessment is based on the factors apparent at the time of the site visit. The re-inspection of trees for health and safety condition should be made on an annual basis.
- 2.3.3 The soil assessment has not been conducted and detailed soil analysis should be undertaken, or data about the soil assessment should be provided.



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3 The site visit and observations

3.1 The site

3.1.1 A site visit was conducted on 24th June 2021 to carry out the survey.

3.2 Tree population summary

3.2.1 The tree survey identified total of 18 individual trees graded in accordance with BS5837:2012 (Table1).

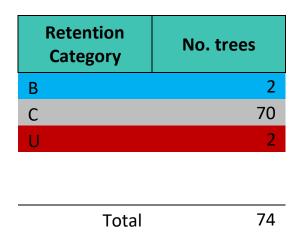


Table 1 Survey retention category summary

3.2.2 All trees data are summarized in Appendix 2 and the Tree Protection Plan indicating trees location in Appendix 3.



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4 Arboricultural impact statement

4.1 The proposal

4.1.1 The latest proposal seeks development of rear extension, outbuilding and associated infrastructure (Figure 1).



Figure 1 Proposed design scheme



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4.2 Tree works

- 4.2.1 T6, T9, T10, T14, T15, T16, T17, T18 and a section of T2 will require removal in order to facilitate proposed development and associated landscape scheme.
- 4.2.2 T3 was identified as unsuitable for retention as the trees are dead.

4.3 Tree protection measures

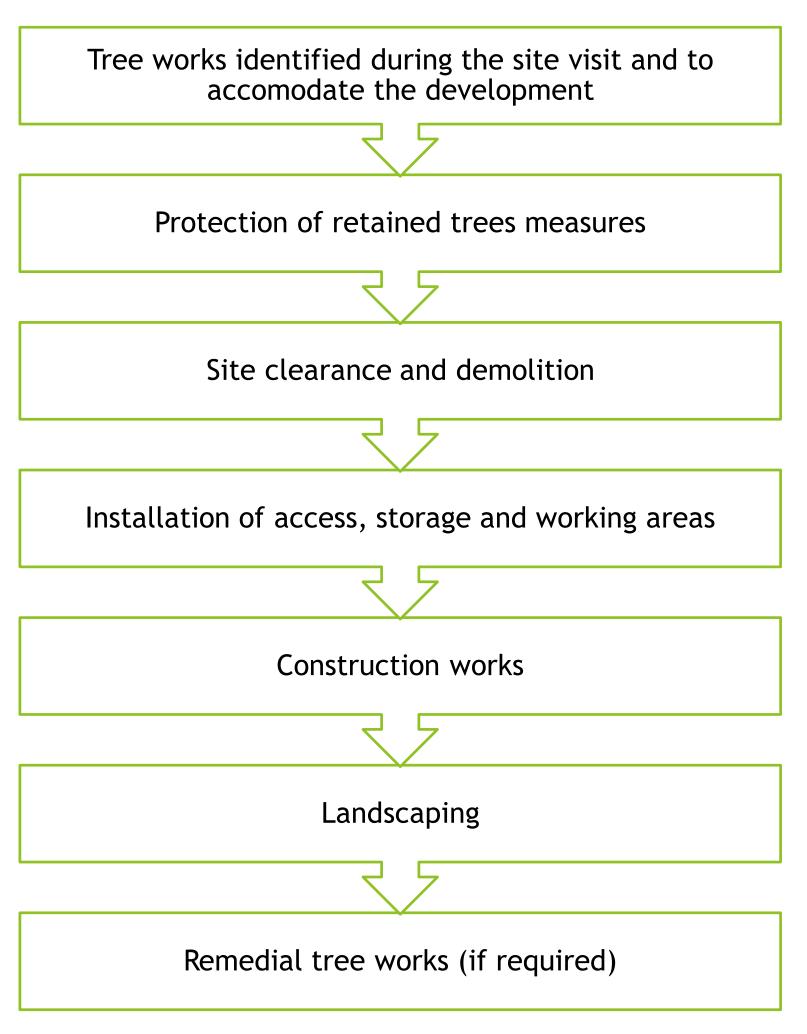
4.3.1 All retained trees require the installation of protective barrier fencing as per the specification of BS5837:2012, barrier type default specification is detailed in section 6.2. .



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5 Sequence of works





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6 Arboricultural method statement

6.1 Tree Protection Plan

- 6.1.1 The attached plan (at Appendix 4) is based on the provided information and reflects the measurements and site boundaries. The plan is only relevant for dealing with tree issues. Trees to be retained have coloured centres and outlines, whilst trees removed have dashed hatching.
 - The protection barriers placement is shown by dashed line.
 - The purple hatching indicates areas of ground protection within RPA.
 - The orange hatching indicates areas of specialist construction methods within RPA such as pile and beam foundation, micro drilling, changes of levels e.g. (as per related sections of the report and annotation on the TPP)
 - The yellow hatching indicates areas of Construction Exclusion Zone (CEZ), and such any construction activity must be avoided within the zone.

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6.2 Tree protection

- 6.2.1 Tree protection barriers location is indicated in the Tree Protection Plan (TPP). The barriers must be clearly marked by all-weather signs "Keep Out" (Figure 5) (Figure 4 and Figure 5 BS5837: 2012 default specification for barriers type).
- 6.2.2 The barriers shall be minimum of 2m high with vertical and horizontal scaffold frameworks. The vertical tubes should be spaced at least 3 m interval and driven securely into the ground. The welded mesh should be securely fixed on the framework. (Figure 4)

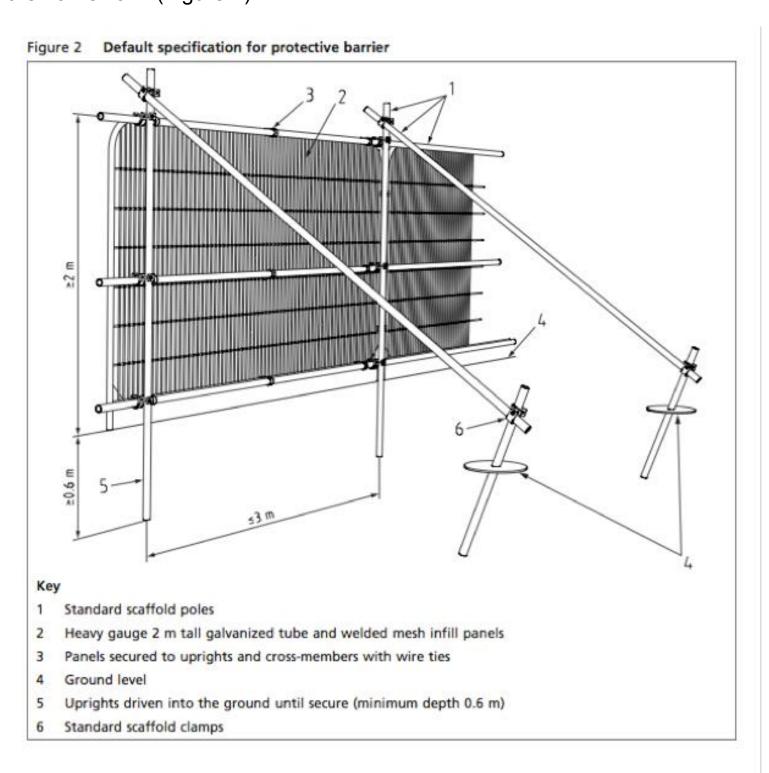


Figure 4 BS5837: 2012 default specification for barriers type



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TREE PROTECTION AREA KEEP OUT!



TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS
THE FOLLOWING MUST BE OBSERVED BY ALL PERSONS:

- PROTECTIVE FENCING MUST NOT BE MOVED
- NO PERSON SHALL ENTER THE PROTECTED AREA
- NO MACHINE OR PLANT SHALL ENTER THE PROTECTED AREA
- NO MATERIALS SHALL BE STORED IN THE PROTECTED AREA
- NO SPOIL SHALL BE DEPOSITED IN THE PROTECTED AREA
- NO EXCAVATION SHALL OCCUR IN THE PROTECTED AREA

Figure 5 All weather protective sign example

6.3 Tree works

Tree number	Tree species	Retention Category	Proposed works	Reason
T002	Leyland Cypress x17 (Cupressocyparis leylandii X) Laurel Cherry (Prunus laurocerasus)	C2,3	Section of approx. 38m2 removal	In order to accommodate the development
T003	Leyland Cypress x2 (Cupressocyparis leylandii X)	U	Removal	Due to condition



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T006	Leyland Cypress (Cupressocyparis leylandii X)	C1,3	Removal	In order to facilitate new landscape scheme
T009	Privet x13 (Ligustrum vulgare)	C2,3	Removal	In order to facilitate new landscape scheme
T010	Cabbage palm (Cordyline australis)	C1,3	Removal	In order to facilitate new landscape scheme
T014	Cabbage palm (Cordyline australis)	C1,3	Removal	In order to facilitate new landscape scheme



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T015	Cabbage palm (Cordyline australis)	C1,3	Removal	In order to facilitate new landscape scheme
T016	Cabbage palm (Cordyline australis)	C1,3	Removal	In order to facilitate new landscape scheme
T017	Cabbage palm (Cordyline australis)	C1,3	Removal	In order to facilitate new landscape scheme
T018	Cabbage palm (Cordyline australis)	C1,3	Removal	In order to facilitate new landscape scheme



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6.3.1 The tree works should be carried out in line with current British Standard BS3998:2010. It is recommended that works are undertaken by the Arboricultural Association approved contractor. A contractor must ensure that all necessary consents have been received from LPA and follow current industry standards and best practice. To minimize damage to retained trees, stumps, shrubs and other vegetation must be removed by hand or using specialized stump grinding machinery. The poisoning of stumps if required must be carried out by trained and qualified operatives.

6.4 Site set-up, storage and material mixing

- 6.4.1 Space must be allowed outside of RPAs for site machinery and material storage.
- 6.4.2 The material must be stored outside the RPAs, which also applies to cement mixing and washing points. The runoff the potential of the contaminants must be considered to avoid incursion to the RPA of retained trees, refer to TPP (appendix 3).

6.5 Site monitoring and supervision

6.5.1 The Project Arboricultural Consultant (PAC) shall attend site prior to the commencement of the development to ensure a satisfactory level of protective fencing and ground protection; ground level alternations; construction of walls, installation of new surfaces within RPAs of retained trees and at least every month during the development works. Where agreed with the L.A. it may be acceptable to supply photographs of the fencing to avoid the necessity for a site visit.

Site visit	Attendees	Timing	Reason
Pre-Commencement	Site manager, Project	After	Check if a tree
Meeting	Arborist and LPA	completion of	protection measures
	Arboricultural officer	the tree works	satisfy methodology
		and installation	detailed in AMS and
		of the tree	LPA expectations.
		protective	Additional action
		measures. Prior	required for the
		any further	protection of the trees
		actions are not	and comments to the
		permitted, such	development
		as demolition or	
		soil excavation	
		unless agreed in	



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		written with	
		LPA.	
	D • • • • • •		
Regular site	Project Arborist and	Regular site	To mitigate any
monitoring and	Site manager	monitoring of	potential issues raised
reporting		the tree	during the
		protection	development, control
		measures and in	of protective
		event of	measures
		unexpected	maintenance and
		issues during the	monitor site activity
		development.	which could cause a
		The pictures of	damage to the
		the site will be	retained trees
		provided every	
		two weeks ¹	
Post Construction	Site manager, Project	After	Check the condition
Meeting	Arborist and LPA	construction	of the retained trees
	Arboricultural officer	completion.	and explain further
		Prior to the	restrictions if
		dismantle of tree	applicable.
		protection	
		measures and	
		landscape work.	

6.5.2 All Site monitoring or supervision shall be followed by a report submission with an annotated photographic record and textual commentary on all matters of tree protection to the Local Authority, which by act or omission are in breach of the Arboricultural Method Statement. The initial site visit confirming placement of satisfactory tree protection shall be notified to LA within 5 working days prior to the commencement of the development.

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¹ LPA may specify different frequency and report requirements. Pictures of the protective measures and site set up provided by a site manager may be acceptable by LPA to lower unnecessary site visits.



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7 Conclusion and recommendations

- 7.1.1 This report has been prepared to accompany the planning application for the site at 62 Bridge Way, TW2 7JJ.
- 7.1.2 T6, T9, T10, T14, T15, T16, T17, T18 and a section of T2 require removal to facilitate proposed development and the landscape scheme.
- 7.1.3 The tree group T3 was identified as unsuitable for retention and such the trees require removal.
- 7.1.4 All retained trees will require tree protection barriers around the RPAs.
- 7.1.5 Provided precautions to protect the identified trees are specified and implemented through the measures included in this report; the development proposal will have little or negligible impact on the retained trees or their wider contribution to an area amenity and character if the methods detailed in this report will be followed.
- 7.1.6 The impact on retained trees will be negligible, and the scheme should be achievable in Arboricultural terms if the methods outlined in this report are followed.



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Appendix 1 – References and Copyright

- British Geological Survey (2014).
 http://mapapps.bgs.ac.uk/geologyofbritain/home.html. BGS, Keyworth, Nottingham.
- 2. G. Mercer, A. Reeves & D. O'Callaghan. 'The Relationship between Trees, Distance to Buildings and Subsidence Events on Shrinkable Clay Soil' AB Academic Publishers 2011. Arboricultural Journal, 33, 229-245.
- 3. BSI (2010) BS 3998:2010 'Tree Work Recommendations'. British Standards Institute
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- 9. Trees and design action group (2014) Trees in a hard landscape: Guide for delivery
- 10. Department for Communities and Local Government (2014) Tree Preservation Orders and trees in conservation areas.

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Appendix 2: Tree Schedule

Date: 05/07/2021

T004	Т003	Т002	T001	Ref
Common Ash (Fraxinus excelsior)	Leyland Cypress x2 (Cupressocyparis leylandii X)	Leyland Cypress x17 (Cupressocyparis leylandii X) Laurel Cherry (Prunus laurocerasus)	Norway Maple (Acer platanoides)	Species
Tree	Group 2 trees	Group 18 trees	Tree	Full Structure
Height (m): 11 Stem Diam (mm): 300 Spread (m): 4N, 4E, 2S, 4W Crown Clearance (m): 2 Lowest Branch (m): 2 Life Stage: Early Mature Rem. Contrib.: 30+ Years	Height (m): 8 2 stems, avg.(mm): 150 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 2 Lowest Branch (m): 2 Life Stage: Dead	Height (m): 10 18 stems, avg.(mm): 200 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 0 Lowest Branch (m): 0 Life Stage: Semi Mature Rem. Contrib.: 20+ Years	Height (m): 13 Stem Diam (mm): 600 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 2 Lowest Branch (m): 2 Life Stage: Early Mature Rem. Contrib.: 30+ Years	Measurements
N:4 E:4 S:2 W:4	N:2 E:2 S:2 W:2	N:4 S:4 W:4	S:8 S:8	Spread
On the neighbouring property behind perimeter fence, data and location estimated, supressed crown	Dead trees	Screening plantation, previously topped, few dead trees	On the neighbouring property behind perimeter fence, data and location estimated	General Observations
C1,3	n	C2,3	B1	Retention Category
Radius: 3.6m. Area: 41 sq m.	None - due to Retention Category of U.	Area: 111 sq m.	Radius: 7.2m. Area: 163 sq m.	RPA
Other Reference: Distance1: Distance2: Physiological Cond: Good Structural Cond: Good	Other Reference: Distance1: Distance2: Physiological Cond: Dead Structural Cond: Poor	Other Reference: Distance1: Distance2: Physiological Cond: Fair Structural Cond: Fair	Other Reference: Distance1: Distance2: Physiological Cond: Good Structural Cond: Good	Measurements2
			No Photo.	Photo

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	Т009	Т008	Т007	T006	Т005
	Privet x13 (Ligustrum vulgare)	Leyland Cypress x5 (Cupressocyparis leylandii X)	Leyland Cypress x18 (Cupressocyparis leylandii X)	Leyland Cypress (Cupressocyparis leylandii X)	Pedunculate Oak (Quercus robur)
	Group 13 trees	Group 5 trees	Group 18 trees	Tree	Tree
	Height (m): 2 13 stems, avg.(mm): 80 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 0 Lowest Branch (m): 0 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Height (m): 10 5 stems, avg.(mm): 200 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 0 Lowest Branch (m): 0 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Height (m): 10 18 stems, avg.(mm): 200 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 0 Lowest Branch (m): 0 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Height (m): 10 Stem Diam (mm): 250 Spread (m): 4N, 4E, 4S, 2W Crown Clearance (m): 2 Lowest Branch (m): 2(N) Life Stage: Early Mature Rem. Contrib.: 20+ Years	Height (m): 12 Stem Diam (mm): 500 Spread (m): 3N, 6E, 6.5S, 6.5W Crown Clearance (m): 2 Lowest Branch (m): 2(N) Life Stage: Early Mature Rem. Contrib.: 40+ Years
	N:3 E:3 S:3 W:3	N:3 E:3 S:3 W:3	N:3 E:3 S:3 W:3	N:4 E:4 S:4 W:2	N:3 E:6 S:6.5 W:6.5
	Formally maintained hedgerow	Topped in past, screening plantations, broken branches	Topped in past, screening plantations	Topped in past, ivy on the stem	On the neighbouring property behind perimeter fence, data and location estimated, supressed crown
	C3	C2,3	C2,3	C1,3	B1,3
	Area: 16 sq m.	Area: same as Group - 11 sq m.	Area: 40 sq m.	Radius: 3.0m. Area: 28 sq m.	Radius: 6.0m. Area: 113 sq m.
	Other Reference: Distance1: Distance2: Physiological Cond: Good Structural Cond: Good	Other Reference: Distance1: Distance2: Physiological Cond: Fair Structural Cond: Fair	Other Reference: Distance1: Distance2: Physiological Cond: Fair Structural Cond: Fair	Other Reference: Distance1: Distance2: Physiological Cond: Fair Structural Cond: Fair	Other Reference: Distance1: Distance2: Physiological Cond: Good Structural Cond: Good
0 0000					No Photo.





Т013	Т012	T011	Т010
Wild Cherry (Prunus avium)	Mixed Species Group (Group, mixed species)	Wild Cherry (Prunus avium)	Cabbage palm (Cordyline australis)
Tree	Tree 4 stems Group		Tree 6 stems
Height (m): 6 Stem Diam (mm): 80 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 2 Lowest Branch (m): 2 Life Stage: Young Rem. Contrib.: 20+ Years	Height (m): 2 Stem Diam (mm): 70 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 0 Lowest Branch (m): 0 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Height (m): 6 4 stems, diam(mm): 70, 70, 70, 70 70 Spread (m): 2.5N, 2.5E, 2.5S, E 2.5W Crown Clearance (m): 2 Lowest Branch (m): 2 Life Stage: Young Rem. Contrib.: 20+ Years	Height (m): 4 6 stems, diam(mm): 80, 80, 80, 80, 80, 60, 90 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 2 Lowest Branch (m): 2 Life Stage: Early Mature Rem. Contrib.: 20+ Years
N:2 E:2 S:2 W:2	N:2 E:2 S:2 W:2	N:2.5 E:2.5 S:2.5 W:2.5	N:2 E:2 S:2 W:2
Base obscured by hedgerow, data estimated	Ornamental shrubbery on the boundary line	Base obscured by hedgerow, data estimated	Multistem
Ω	ω	ω	C1,3
Radius: 1.0m. Area: 3 sq m.	Area: 18 sq m.	Radius: 1.7m. Area: 9 sq m.	Radius: 2.3m. Area: 17 sq m.
Other Reference: Distance1: Distance2: Physiological Cond: Good Structural Cond: Good	Other Reference: Distance1: Distance2: Physiological Cond: Good Structural Cond: Good	Other Reference: Distance1: Distance2: Physiological Cond: Good Structural Cond: Good	Other Reference: Distance1: Distance2: Physiological Cond: Good Structural Cond: Good
No Photo.			



Т018	Т017	Т016	Т015	T014
Cabbage palm (Cordyline australis)				
Tree	Tree	Tree	Tree	Tree 6 stems
Height (m): 2 Stem Diam (mm): 70 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 1 Lowest Branch (m): 1 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Height (m): 2 Stem Diam (mm): 70 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 1 Lowest Branch (m): 1 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Height (m): 2 Stem Diam (mm): 70 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 1 Lowest Branch (m): 1 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Height (m): 2 Stem Diam (mm): 70 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 1 Lowest Branch (m): 1 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Height (m): 2 6 stems, diam(mm): 80, 80, 80, 80, 60, 90 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 1 Lowest Branch (m): 1 Life Stage: Early Mature Rem. Contrib.: 20+ Years
N:1 E:1 S:1 W:1	N:1 E:1 S:1 W:1	N:1 E:1 S:1 W:1	N:1 E:1 S:1 W:1	N:1 E:1 S:1 W:1
Multistem	Multistem	Multistem	Multistem	Multistem
C1,3	C1,3	C1,3	C1,3	C1,3
Radius: 0.8m. Area: 2 sq m.	Radius: 2.3m. Area: 17 sq m.			
Other Reference: Distance1: Distance2: Physiological Cond: Good Structural Cond: Good	Other Reference: Distance1: Distance2: Physiological Cond: Good Structural Cond: Good	Other Reference: Distance1: Distance2: Physiological Cond: Good Structural Cond: Good	Other Reference: Distance1: Distance2: Physiological Cond: Good Structural Cond: Good	Other Reference: Distance1: Distance2: Physiological Cond: Good Structural Cond: Good
No Photo.	No Photo.	No Photo.		



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T019
Mixed Species Group x5 (Group, mixed species)
Group 5 trees
Height (m): 2 5 stems, avg.(mm): 100 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 0 Lowest Branch (m): 0 Life Stage: Early Mature Rem. Contrib.: 20+ Years
N:2 E:2 S:2 W:2
Screening hedgerow
C2,3
Other Refe Distance1: Area: 11 sq m. Distance2: Physiologic
Other Reference: Distance1: Distance2: Physiological Cond: Good Structural Cond: Good



Appendix 3: Tree protection plan

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