



ARBORICULTURAL IMPLICATIONS ASSESSMENT

PROPOSED DEVELOPMENT

AT

FISHER HOUSE
RIVINGTON LANE
RIVINGTON

Author: C. Salisbury
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Mulberry

Adamson House, Towers Business Park, Wilmslow Road, Didsbury, M20 2YY

T 0161 955 3628

F 0161 955 4201

E info@mulberrytmc.co.uk

www.mulberrytmc.co.uk

1.0 Introduction

- 1.1 Mulberry Tree Management were instructed by Warren Kozera and Laura Yardley, to carry out an arboricultural survey of trees at their site at Fisher House, Rivington Lane, Rivington.
- 1.2 This report details the arboricultural implications of developing the site, including:
 - a survey of the trees on and near the development which may impact the proposal from ground level, noting their location, species and all relevant parameters, i.e. stem diameter, height, crown spread, condition etc;
 - providing advice on the removal, retention and management of trees;
 - assessment of the potential effects of the proposal on retained trees and vice versa;
 - assessment of the requirement for tree protection for the duration of the works;
 - mitigation for any loss;
 - preparation of a tree schedule;
 - and report on the above matters.
- 1.3 The survey was carried out on 26 October 2021 by means of inspection from ground level by an experienced and qualified arboriculturalist. The inspection can be restricted in cases where trees were Ivy clad or surrounded by vegetation.
- 1.4 Under *BS5837: 2012 Trees in Relation to Construction - Recommendations*, the assessment of trees is made objectively. The tree categorisation method identifies the quality and value of the existing tree stock, allowing informed decisions to be made concerning development design layout.
- 1.5 The following documents have been made available by the client:
 - Drawing- 211046 - 2D.dwg
 - Drawing- (SI)2-11-PP.dwg
- 1.6 The supplied drawing included some tree positions plotted. Any dimensions regarding tree positions and protective fencing must be checked on site.
- 1.7 Weather conditions during the survey were dry and still.
- 1.8 The survey was carried out noting the conditions of the trees at the time of inspection. As trees are part of the natural environment, conditions can naturally change; therefore the contents of this report are valid for one year only. After this period, re-inspection may be necessary.

2.0 Survey Methodology

- 2.1 The trees were surveyed (prefixed T, or G for group) and recorded in the tree schedule in appendix one. Where groups are recorded, average height and diameter at breast height (DBH) of the trees in the group are reported. Where access to the base of any trees was limited, stem size was estimated.
- 2.2 All the trees were assessed using: a grading A to C (retention) and U (removal); condition and age class as defined in appendix two.
- 2.3 Where appropriate, canopy spread for each tree was recorded at four cardinal points in order to reproduce an accurate representation of the crown shape of the tree on the tree plan in appendix three.
- 2.4 The survey included all trees within the proposal area and trees near to the proposal.

3.0 Development Proposals

- 3.1 Due to the proposed development and its associated infrastructure there are a number of locations where the proposals are in close proximity to the trees surveyed. The Site Layout Plan within appendix three identifies the trees in relation to the proposed development.
- 3.2 In order to fully assess the impact of the proposals an Impact Table has been created detailing each tree, which shows the proximity of the associated works to the tree.
- 3.3 This can then be assessed in accordance with BS 5837:2012 to determine whether the development will have a detrimental impact on the health of each tree. Once this has been determined remedial measures can be detailed to reduce the impact the proposals will have on the treescape.

3.4 Impact Table:-

Tree No.	Root Protection Area identified in Table 2 of BS 5837:2012	Distance to Proposed Hard Standing (m)	Distance to Proposed Development (m)	Can the Tree/s be Successfully Retained
T1	Not Assessed as Requires Removal Due to its Condition			
T2	235m ²	N/A as all works are internal		
T3	Not Assessed as Requires Removal Due to its Condition			
T4	228m ²	N/A	8.40	No as outlined in section 5.0 below
T5	33m ²	N/A as all works are internal		
T6	65m ²	N/A as all works are internal		
T7	104m ²	N/A as all works are internal		
T8	268m ²	N/A as all works are internal		
T9	209m ²	N/A as all works are internal		
T10	9m ²	N/A as all works are internal		
G1	163m ²	N/A as all works are internal		
G2	16m ²	N/A as all works are internal		
G3	375m ²	N/A as all works are internal		
G4	33m ²	N/A as all works are internal		

4.0 Impact Assessment

4.1 To assess the implications of the Impact Table each tree can be categorised in the following way: -

Tree No.	Trees to be retained		Trees to be removed	
	With No Impact	With detailed construction	Due to Condition	Due to Development
	T1, T2, T3, T5, T6, T7, T8, T9, T10. G1, G2, G3 & G4	N/A	N/A	T4

5.0 Mitigation Proposals

5.1 Root Penetration from T4

5.1.1 During the survey roots were identified within the drainage system in close proximity to T4. To allow correct identification of the tree causing the damage a sample of the roots was obtained and sent for analysis. The result of this analysis was that the roots were from the Eucalyptus. A copy of the analysis is contained within Appendix Four.

5.1.2 To allow repair of the drain and to prevent any further damage the tree is required to be removed.

6.0 Conclusions and Arboricultural Recommendations

- 6.1 The tree categorisation method identifies the quality and value of the existing tree stock but it is not meant to be interpreted rigidly and is presented in order to form a balanced judgement on tree retention and removal.
- 6.2 A precautionary method of working near trees is detailed in the accompanying Arboricultural Method Statement.
- 6.3 Following site development, regular (annual or biannual) inspections of all retained trees should be undertaken by a qualified Arboricultural Consultant.
- 6.4 It is considered that in following the advice in this document, any negative factors affecting trees on the site will be minimised.

Appendix One

Tree Survey Schedule

TREE SURVEY SCHEDULE

Arboricultural Data Sheet:				Date of Survey: 26/10/21				Surveyor: C. Salisbury					
Tree No.	Species	DBH (mm)	Height (m)	Age	Crown Spread (m)				Crown clearance	Condition rating	Comments and preliminary management recommendations	Estimated remaining contribution	Tree quality category rating
					N	E	S	W					
T1	Elderberry	270	4.00	OM	0.5	1.0	1.0	1.0	2.00	D	A standing dead tree – Fell	0	U
T2	Beech	720	13.80	EM	7.0	4.0	6.0	6.5	4.00	B	A co-dominant specimen with reasonable form.	80+	A2
T3	Sycamore	750	14.20	M	7.0	7.0	7.0	7.0	5.50	C/D	A dominant specimen with reasonable form with extensive basal decay.	0-10	U
T4	Eucalyptus	710	15.80	M	5.5	5.5	7.0	5.5	4.00	B/C	A co-dominant specimen, part of a linear belt, with slight stem decay.	40-60	B2
T5	Laburnum	270	4.60	FM	3.0	4.5	4.0	3.5	2.50	B	A multi stemmed specimen situated in property grounds.	10-20	C2
T6	Tulip Tree	380	9.80	SM	4.0	3.5	4.0	3.5	1.00	B	An individual specimen with reasonable form situated in property grounds.	80+	B2
T7	Birch	480	13.20	FM	4.5	3.5	2.5	2.5	3.50	B	A co-dominant specimen, part of linear belt on property boundary.	20-40	A3
T8	Sycamore	770	11.40	EM	4.0	4.0	4.0	4.0	4.00	B	A co-dominant ivy clad specimen, part of linear belt on property boundary.	80+	A3
T9	Sycamore	680	10.60	M	4.0	4.0	4.0	4.0	4.50	B	A co-dominant ivy clad specimen, part of linear belt on property boundary.	80+	A3

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					N	E	S	W					
T10	Maple	140	3.20	M	2.0	2.0	1.5	0.5	2.00	B	An ornamental specimen situated in property grounds.	20-40	C2
G1	2 x Sycamore & 2 x Hawthorn	<600	13.60	EM/ FM	-	-	-	-	3.00	B/C	A linear belt with reasonable form.	80+	A2
G2	4 x Apple	<190	4.80	SM/ M	-	-	-	-	2.00	B/C	A linear belt situated adjacent to driveway.	40-60	C2
G3	3 x Sycamore	<910	13.20	M	-	-	-	-	4.00	B/C	A linear belt situated adjacent to driveway, in decline. – Fell 1 x Sycamore.	60-80	A2
G4	4 x Conifer	<270	7.40	EM	-	-	-	-	1.50	B	An ornamental group in property grounds.	40-60	C2

Appendix Two

Tree Survey Key

Trees for removal			
Category and definition		Criteria	
Category U Those in such a condition that any existing value would be lost within 10 years and which should, in the current context, be removed for reasons of sound arboricultural management		Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other R category trees (i.e. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline Trees infected with pathogens of significance to the health and/or safety of other trees nearby (e.g. Dutch elm disease), or very low quality trees suppressing adjacent trees of better quality Note – Habitat reinstatement may be appropriate (e.g. R category tree used as a bat roost: installation of bat box in nearby tree).	
Trees to be considered for retention			
Category and definition		Criteria - Subcategories	
		1 Arboriculture values	2 Landscape values
			3 Conservation values
Category A Those of high quality and value: in such a condition as to be able to make a substantial contribution (a minimum 40 years is suggested)		Trees that are particularly good examples of their species, especially if rare or unusual, or essential components of groups, or of formal or semi-formal arboriculture features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands which provide a definite screening or softening effect to the locality in relation to views into or out of the site, or those of particular visual importance (e.g. avenues or other arboricultural features assessed as groups)
Category B Those of moderate quality and value: those in such a condition as to make a significant contribution (a minimum of 20 years is suggested)		Trees that might be included in the high category, but are downgraded because of impaired condition (e.g. presence of remediable defects including unsympathetic past management and minor storm damage)	Trees present in numbers, usually as groups or woodlands, such that they form distinct landscape features, thereby attracting a higher collective rating than they might as individuals but which are not, individually, essential components of formal or semi-formal arboriculture features (e.g. trees of moderate quality within avenue that includes better, A category specimens), or trees situated mainly internally to the site, therefore individually having little impact on the wider locality
Category C Those of low quality and value: currently in adequate condition to remain until new planting could be established (a minimum of 10 years is suggested), or young trees with a stem diameter below 150 mm		Trees not qualifying in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater landscape value, and/or trees offering low or only temporary screening benefit
		Note - Whilst C category trees will usually not be retained where they would impose a significant constraint on development, young trees with a stem diameter of less than 150 mm should be considered for relocation	

Age Class

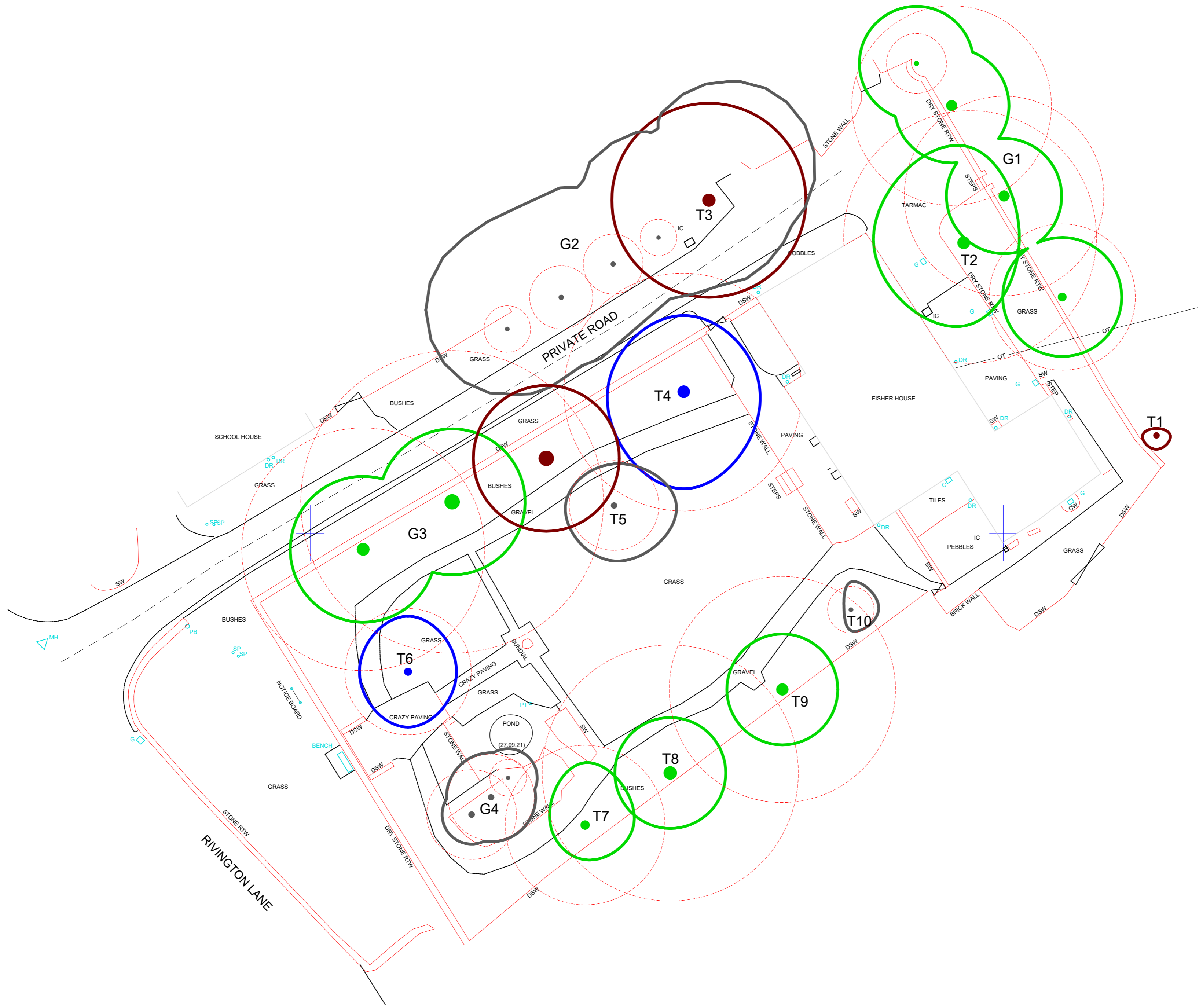
Y	Young	Trees that have not yet established
SM	Semi-Mature	Established trees up to 1/3 of expected height and crown
EM	Early mature	Between 1/3 and 2/3 expected height and crown
M	Mature	Between 2/3 and full expected height and crown
FM	Fully Mature	Full expected height and crown
OM	Over-Mature	Crown beginning to break up and decrease in size
S	Senescent	Crown in advanced stage of break-up






Condition

A	Good
B	Fair
C	Poor
D	Dead

Appendix Three

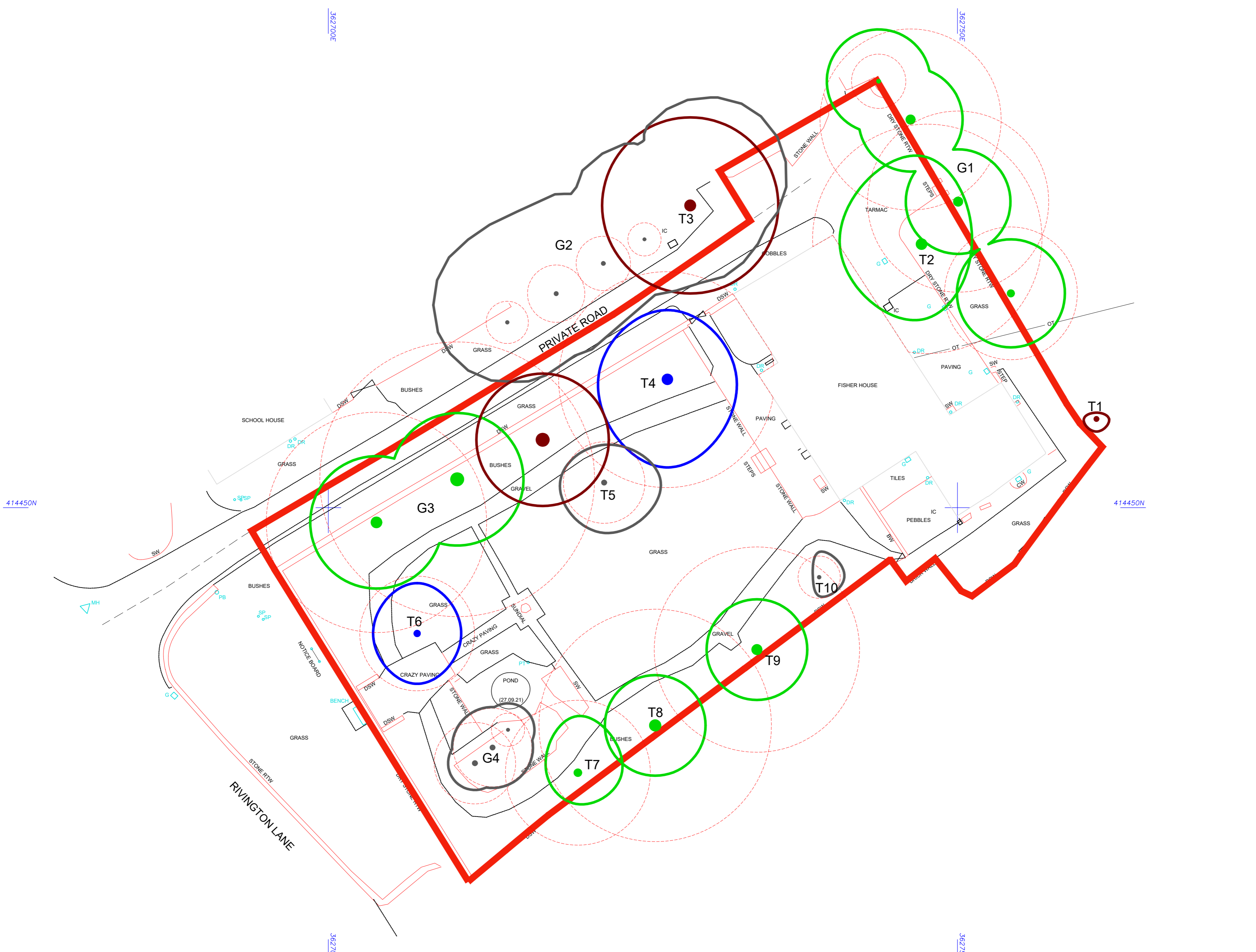
Plans








-  Category A Trees
-  Category B Trees
-  Category C Trees
-  Category U Trees
-  Root protection area

Mulberry TMC Adamson House Towers Business Park Wilmslow Road Didsbury M20 2YY		
Tel: 0161 955 3628 Email: info@mulberrytmc.co.uk		
Site Address: Fisher House Rivington Lane Rivington		
Drawing Title: BS5837 Plan		
Drawing No: FHRLR/BS/01		
Date: 20/11/2021	Scale: 1:200@A2	Drawn by: CS

Note: Dimensions are not to be scaled from this drawing. All written measurements are to be checked on site by the contractor. Copyright Mulberry TMC. Note: All rights described in Chapter IV of the Copyright Design & Patents Act 1988 have generally been asserted.



-  Category A Trees
-  Category B Trees
-  Category C Trees
-  Category U Trees
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Tel: 0161 955 3628 Email: info@mulberrytmc.co.uk		
Site Address: Fisher House Rivington Lane Rivington		
Drawing Title: AIS Plan		
Drawing No: FHRLR/AIS/01		
Date:	Scale:	Drawn by:
09/01/2022	1:200@A2	CS
<small>Note: Dimensions are not to be scaled from this drawing. All written measurements are to be checked on site by the contractor. Copyright Mulberry TMC. Note: All rights described in Chapter IV of the Copyright Design & Patents Act 1988 have generally been asserted.</small>		

Appendix Four

Tree Root Analysis



Richardson's Botanical Identifications

Root identification
Vegetation surveys
Tree/Building investigations
Plant taxonomy

Dr Ian B K Richardson
BSc, MSc, PhD, MRSB, FLS
James Richardson
BSc (Hons. Biology)

Mulberry
Adamson House
Towers Business Park
Wimslow Road
DIDSBURY M20 2YY

Enterprise House
49-51 Whiteknights Road
Reading
RG6 7BB

Tel: (0118) 986 9552 (*Direct line*)
E-mail: richardsons@botanical.net
Web: www.botanical.net

17/12/2021

Your ref: **Root ID**

Our ref: 83/2411

Dear Sirs

Root ID

The samples you sent in relation to the above on 06/12/2021 have been examined. Their structures were referable as follows:

From site		
2 no.	Examined root: EUCALYPTUS (Gum).	Dead* .

Click here for more information: [EUCALYPTUS](#)

I trust this is of help. Please call us if you have any queries; thank you for your cheque payment - a copy of our Invoice is enclosed.

Yours faithfully

Dr Ian B K Richardson

* Based mainly on the Iodine test for starch. Starch is present in some cells of a living woody root, but is more or less rapidly broken down by soil micro-organisms on death of the root, sometimes before decay is evident. This result need not reflect the state of the parent tree.

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