



WE KNOW SERVICES

ARBORICULTURAL IMPACT ASSESSMENT

Site

19 Lowry Close, Kirkby

Client

Mr Ian Walsh

Report Date

November 2021

Version

First Issue

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Arboricultural Impact Assessment – 19 Lowry Close, Kirkby



An Image showing T5, a Leylandii.

Quality Assurance

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1 Introduction

We Know Services were instructed by Mr Ian Walsh to undertake an BS5837:2012 arboricultural survey of the tree features within and adjacent to the red line boundary at 19 Lowry Close, Kirkby L33 4HJ.

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.

- a) A tree schedule.
- b) Advice on the removal, retention, and management of trees.
- c) Assessment of the potential effects of the proposal on retained trees and vice versa.
- d) Assessment of the requirement for tree protection for the duration of the works; and
- e) A mitigation proposal for any loss.

The survey was carried out on 9th November 2021 by means of visual 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.

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.

The following document was made available by the client:

- Drawing - 19 Lowry Close Kirkby - Location Plan - Ref 21028-LP-1A

The supplied drawing did not include tree positions plotted. All trees have been added to the drawing indicatively. Any dimensions regarding tree positions and protective fencing must be checked on site.

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 required.

2 Statutory Designations

A check for tree preservation orders and conservation areas was undertaken on 09/11/21 using Knowsley Council's My Neighbourhood Map, the results showed that there are no preservation orders on site and the site is not within a conservation area.

3 Survey Methodology

The trees were surveyed (prefixed T, or G for group) and recorded in the tree schedule in Appendix 1.0. 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.

All the trees were assessed using: a grading A to C (retention) and U (removal); condition and age class as defined in Appendix 2.0.

Where appropriate, canopy spread for each tree was recorded at four cardinal points to reproduce an accurate representation of the crown shape of the tree on the tree plan in Appendix 3.0.

The survey included all trees within the proposal area and trees near to the proposal.

4 Survey Results

The survey identified five tree features on site consisting of three individual trees and two groups.

Of these, three tree features were classed as category B and the remaining two tree features were classed as category C.

5 Impact Assessment

Table 5.1: Impact Table

Tree No.	RPA Radius	Distance to Proposed Development A (m)	RPA Incursion (m ²)	RPA Incursion (%)	Can the tree/s be successfully retained?
T1	1.92	4.9	0	0.0%	Yes
T2	2.16	5.5	0	0.0%	Yes
T3	1.56	10.2	0	0.0%	Yes
T4	1.68	12.6	0	0.0%	Yes
T5	2.81	3.7	0	0.0%	Remove to facilitate development access.

Table 5.2 Impact Assessment

	Trees to be retained		Trees to be removed	
	With no impact	With detailed construction	Due to condition	Due to development
Tree No.	T1, G2, T3, G4			T5

Because of the proximity of T5 to the proposed extension, and the access required to build the proposed extension, it is recommended that this tree is removed to accommodate this access. Because of the species and quality of the tree, the loss of this tree will not have a severe impact to the amenity of the area.

It is recommended that tree protective fencing is used in the locations highlighted on the Tree Protection Plan (Ref: 21/00086/TTP) to protect the trees during construction.

Details of both measures can be found in the accompanying method statement (Ref: 21/0087/AMS).

6 **Mitigation Proposals**

6.1 **Replacement Tree Planting**

Due to the loss of the trees identified in the Impact Table, it is recommended that a replacement tree is planted to mitigate the loss. Requirements usually involve replacement of trees on a two for one basis, however considering the lack of room on site for multiple replacements, it is recommended that T5 is replaced on a one for one basis using a larger replacement size. It is considered that an increased size will mitigate for the tree loss.

Recommendations for replacement trees species are listed in *Table 6.1: Recommendations for Replacement Tree Species*

Table 6.1: Recommendations for Replacement Tree Species

Tree Species	Tree Size
Field Maple - <i>Acer campestre</i>	20-25 cm girth
June Berry – <i>Amelanchier lamarkii</i>	20-25 cm girth
Cypress Species – <i>Cypress spp.</i>	20-25 cm girth
Holly – <i>Ilex aquifolium</i>	20-25 cm girth
Rowan - <i>Sorbus aucuparia</i>	20-25 cm girth

7 **Summary and Conclusion**

The survey identified five tree features on site consisting of three individual trees and two groups.

Of these, three tree features were classed as category B and the remaining two tree features were classed as category C.

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 to form a balanced judgement on tree retention and removal.

The proposals have impacted no tree features on site, but T5 is recommended for removal to accommodate access to the site.

A precautionary method of working near trees is detailed in the accompanying Arboricultural Method Statement including tree protective fencing.

Following site development, regular (annual or biannual) inspections of all retained trees should be undertaken by a qualified arboricultural consultant.

It is considered that in following the advice in this document, any negative factors affecting the remaining trees on site will be minimised.

Appendix I.0 Tree Survey Schedule

Arboricultural Impact Assessment – 19 Lowry Close, Kirkby

Arboricultural Data Sheet: 19 Lowry Close, Kirkby					Date of Survey: 09/11/21					Surveyor: Jonathan Henderson			
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	Cherry	160	2	EM	1	1	1	1	1	Good	Good shape and form. Minor deadwood in crown (>50mm diameter). No major visible defects.	20+	B1
G2	Mixed Broadleaf	180 AVG	6	EM - M	See Plan				0+	Good	Good shapes and forms. Individually of lower value. Minor deadwood in crown (>50mm diameter). No major visible defects.	20+	B2
T3	Purple Plum	130	5	EM	1	1	1	1	0.5	Good	Reasonable shape and form. Stubs left from pruning. Minor deadwood in crown (>50mm diameter). No major visible defects.	10+	C1
G4	Mixed Broadleaf	140 AVG	6	EM	See Plan				1	Good	Good shape and form. Minor deadwood in crown (>50mm diameter). No major visible defects.	20+	B1
T5	Leylandii	180, 150	5	EM	1	2	1	2	1	Good	Good shape and form. Multi stemmed from base. No major visible defects.	10+	C1

Appendix 2.0 Tree Survey Key

Arboricultural Impact Assessment – 19 Lowry Close, Kirkby

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)	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood pasture)
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	Trees with clearly identifiable conservation or other cultural benefits
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	Trees with very limited conservation or other cultural benefits
	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

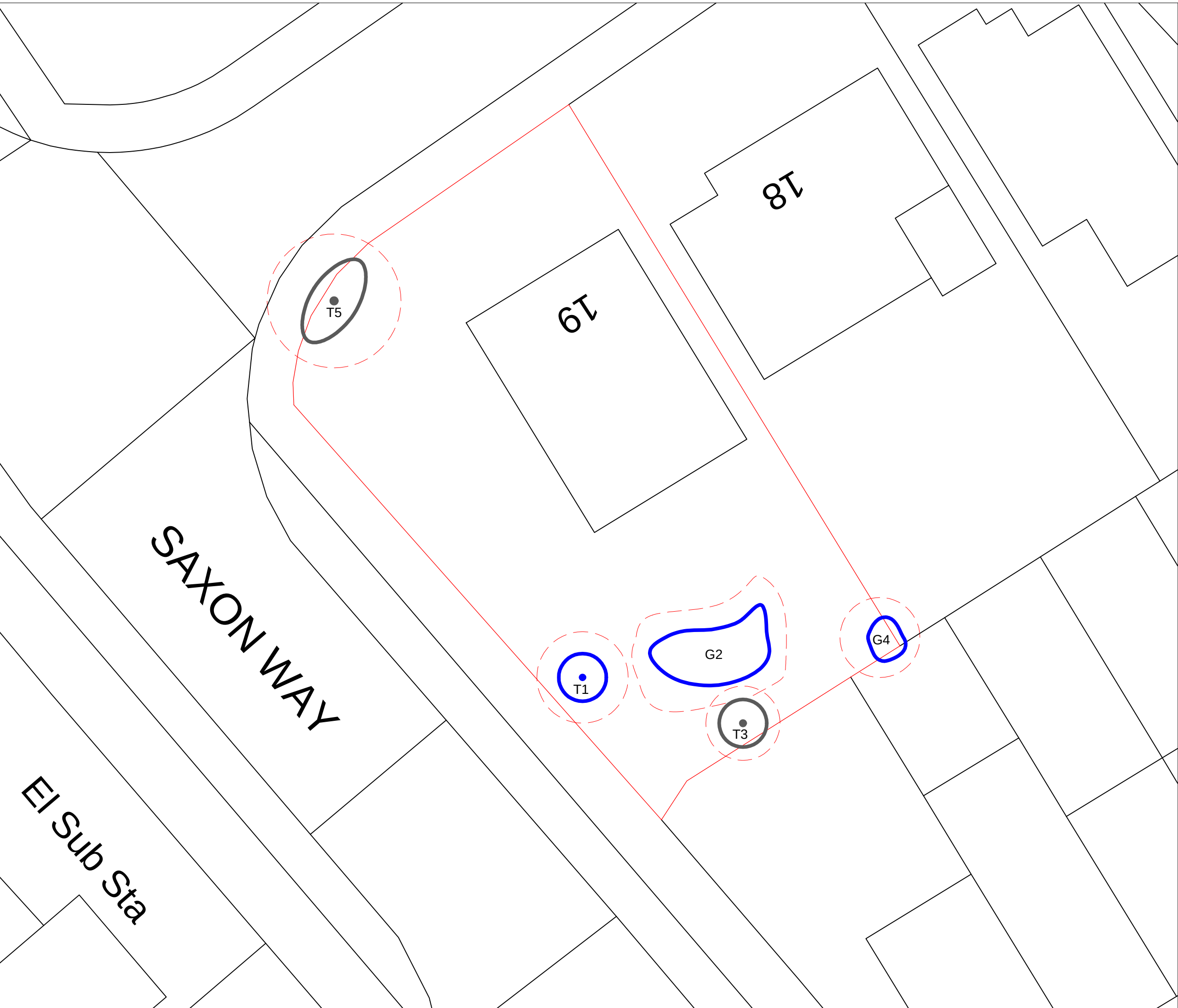
1	Good
2	Fair
3	Poor
4	Dead

Appendix 3.0 Proposed Development Plans



U-VALUE TO BE ACHIEVED:
Walls - 0.28 W/m² K
Roof - 0.18 W/m² K
Ground Floor - 0.18 W/m² K
Doors and Windows - 1.2 W/m² K

Appendix 4.0 Arboricultural Plans



Category A Trees



Category B Trees



Category C Trees



Category U Trees



Root protection area



WE KNOW SERVICES

Court Hey Park
Roby Road
Huyton
L16 3NA

Email: info@weknowservices.co.uk

Client:
Mr Ian Walsh

Site Address:
19 Lowry Close
Kirkby
L33 4HJ

Drawing Title:
BS5837 Plan

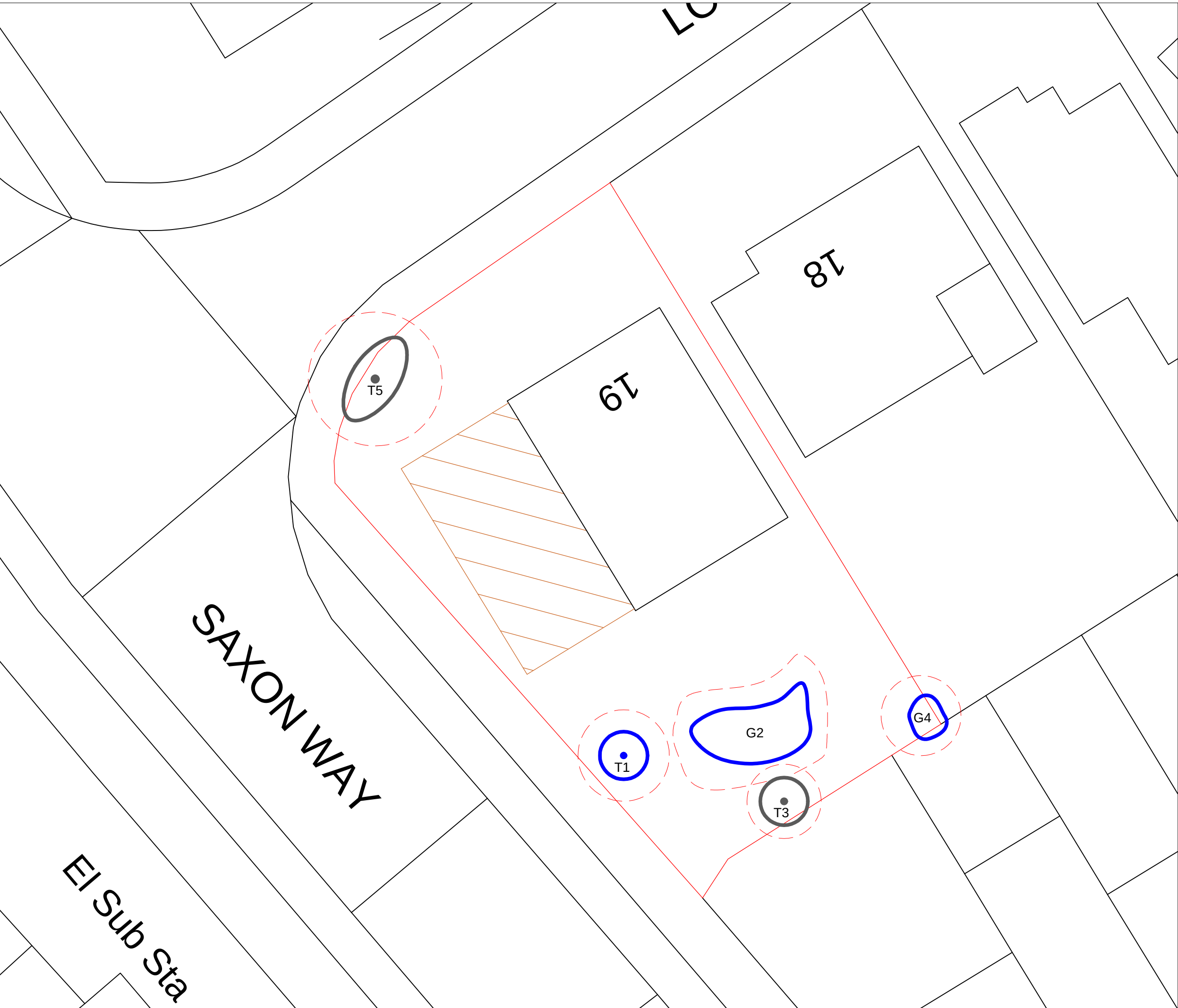
Drawing No:
21/00086/BSP

Date:
11/11/2021

Scale:
1:150@A3

Drawn by:
JH

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Category A Trees



Category B Trees



Category C Trees



Category U Trees



Root protection area



Proposed Extension



Court Hey Park
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Huyton
L16 3NA

Email: info@weknowservices.co.uk

Client:
Mr Ian Walsh

Site Address:
19 Lowry Close
Kirkby
L33 4HJ

Drawing Title: AIA Plan		Drawing No: 21/00086/AIA
Date: 11/11/2021	Scale: 1:150@A3	Drawn by: JH

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