



WE KNOW SERVICES

ARBORICULTURAL IMPACT ASSESSMENT

Site

Former Education Building, Huyton Hey Road

Client

Knowsley Council

Report Date

September 2023

Version

First Issue

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Arboricultural Impact Assessment – Former Education Building, Huyton Hey Road



An image showing T4 (R), T5 and T6 (L).

Quality Assurance

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1 Introduction

We Know Services were instructed by Knowsley Council to undertake an BS5837:2012 arboricultural survey of the tree features within and adjacent to the red line boundary at Former Education Building, Huyton Hey Road, Huyton L36 5YH.

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.

- A. A survey of the trees on and near the development which may impact the proposal.
- B. A tree schedule.
- C. Advice on the removal, retention, and management of trees.
- D. Assessment of the potential effects of the proposal on retained trees and vice versa.
- E. Assessment of the requirement for tree protection for the duration of the works
- F. Mitigation proposal for any loss.

The survey was undertaken on 19th September 2023 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.

No documentation was provided by the client. 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.

Until planning permission is obtained, no tree work should be undertaken on site following the issue of this document. Once planning permission is obtained, only the works recommended within this document should be undertaken unless permission is obtained from the local planning authority.

2 Site Information

2.1 Site Description

The site consists of a former education centre and a car park. To the north of the site is a multi-level car park. To the east of the site is Huyton Hey Road and a small area of woodland. To the south of the site is Huyton Hey Road and a fast-food establishment. To the west of the site is a car parking area behind a row of shops.

2.2 Proposals Description

The client is proposing to demolish the existing building.

2.3 Statutory Designations

A check for tree preservation orders and conservation areas was undertaken on 19/09/23 using Knowsley Councils online My Neighbourhood Map, the results showed that there are no preservation orders on site and the site is not within a conservation area.

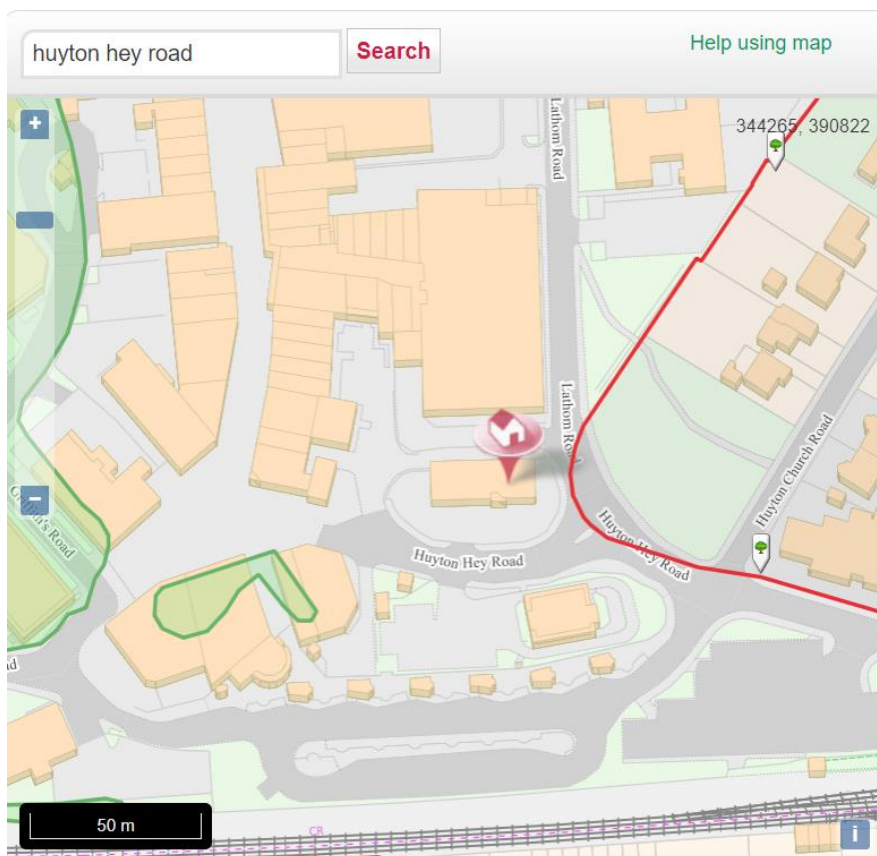


Figure 2.3.1 Showing the results of the statutory designation check.

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 six tree features consisting of six individual trees.

All features were categorized as category B.

Three features were found to be in good condition, the remaining three features were found to be in fair condition.

Three features; T4, T5 and T6 were all found to have various levels of ivy coverage on the stems which prevented full inspection of these features. To ensure the ivy does not cause any impact to the tree, including the potential death of these features, it is recommended that the ivy is severed on all features from the base to 2m.

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	3.00	3.2	0	0.0%	Yes
T2	3.36	3.2	0	0.0%	Yes
T3	4.08	4.1	0	0.0%	Yes
T4	9.48	9.4	0	0.0%	Yes
T5	9.60	9.8	0	0.0%	Yes
T6	8.76	10.1	0	0.0%	Yes

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, T2, T3, T4, T5, T6			

Due to the proposals, no trees are proposed for removal.

Although there is no impact to the trees root protection areas from the proposed demolition of the building, all of the trees crowns will likely be impacted by the demolition and the machinery required for the demolition. Due to the proximity of the crowns to the building, It is therefore recommended that all features are given a 30% crown reduction, this should prevent any potential damage to the features from the proposed demolition.

Precautionary measures including supervision by the project arboricultural consultant during the works are detailed in the accompanying method statement (Ref: 23/0013/AMS).

6 Tree Protection During Demolition

To ensure that the tree features are provided the necessary level of protection during the proposed demolition of the building, tree protective fencing will be required. The guidelines within BS5837:2012 recommend that the protective fencing is placed on the edge of the root protection area (RPA), however due to onsite conditions and to allow the proposed demolition activities, the tree protective fencing has been adjusted on the accompanying tree protection plan (Ref: 23/0013/TPP) to match on site conditions.

All features on site have been planted within planting beds which have small rail fences surrounding them. Upon inspection of all features on site, the surrounding hard surfacing did not show any evidence of root spread or any upheaval of the hard surfacing. Therefore, to enable the proposed demolition, the tree protective fencing positions have been altered to match the position of the current rail fencing. It has been considered that this will provide satisfactory protection to the trees whilst allowing the demolition traffic enough access to complete the demolition.

7 Summary and Conclusion

The survey identified six tree features consisting of six individual trees.

All features were categorized as category B.

Three features were found to be in good condition, the remaining three features were found to be in fair condition.

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, therefore all features can be retained.

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

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 – Former Education Building, Huyton Hey Road

Arboricultural Data Sheet: Former Education Building					Date of Survey: 19/09/23					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	Hornbeam	250	8	EM	4	2	3	3	3	Good	Good shape and form. Tree is 3.2m away from the adjacent building. Hard standing within 1.5m of the stem, no evidence of upheaval on hard standing. Minor deadwood in the crown. No major visible defects.	20+	B1
T2	Hornbeam	280	9	EM	4	3	3	2	3	Good	Good shape and form. Tree is 3.2m away from the adjacent building. Hard standing within 1.5m of the stem, no evidence of upheaval on hard standing. Minor deadwood in the crown. No major visible defects.	20+	B1
T3	Hornbeam	340	9	EM	4	4	4	4	2	Good	Good shape and form. Adjacent building is 4.1m away. Hard standing within 1.4m of the stem, no evidence of hard surfacing upheaval. Minor deadwood in the crown. No major visible defects.	20+	B1
T4	Horse Chestnut	790	12	FM	8	4	6	3	2	Fair	Reasonable shape and form. Evidence of historical limb loss on	20+	B1

Arboricultural Impact Assessment – Former Education Building, Huyton Hey Road

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					N	E	S	W					
											the eastern side of the crown. Evidence of horse chestnut leaf minor on foliage, of little concern. Dense ivy on stem going into the crown prevented full inspection. Minor deadwood in the crown.		
T5	Horse Chestnut	800	12	FM	6	3	6	5	2	Fair	Reasonable shape and form. Dense ivy on the stem prevented full inspection of the stem. Crown has minor deadwood but no major visible defects. Evidence of horse chestnut leaf minor, of little concern.	20+	B1
T6	Copper Beech	730	14	FM	7	3	6	5	2	Fair	Reasonable shape and form. Dense ivy on the stem prevented full inspection of the stem. Crown has minor deadwood but no major visible defects.	20+	B1

Appendix 2.0 Tree Survey Key

Arboricultural Impact Assessment – Former Education Building, Huyton Hey Road

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		

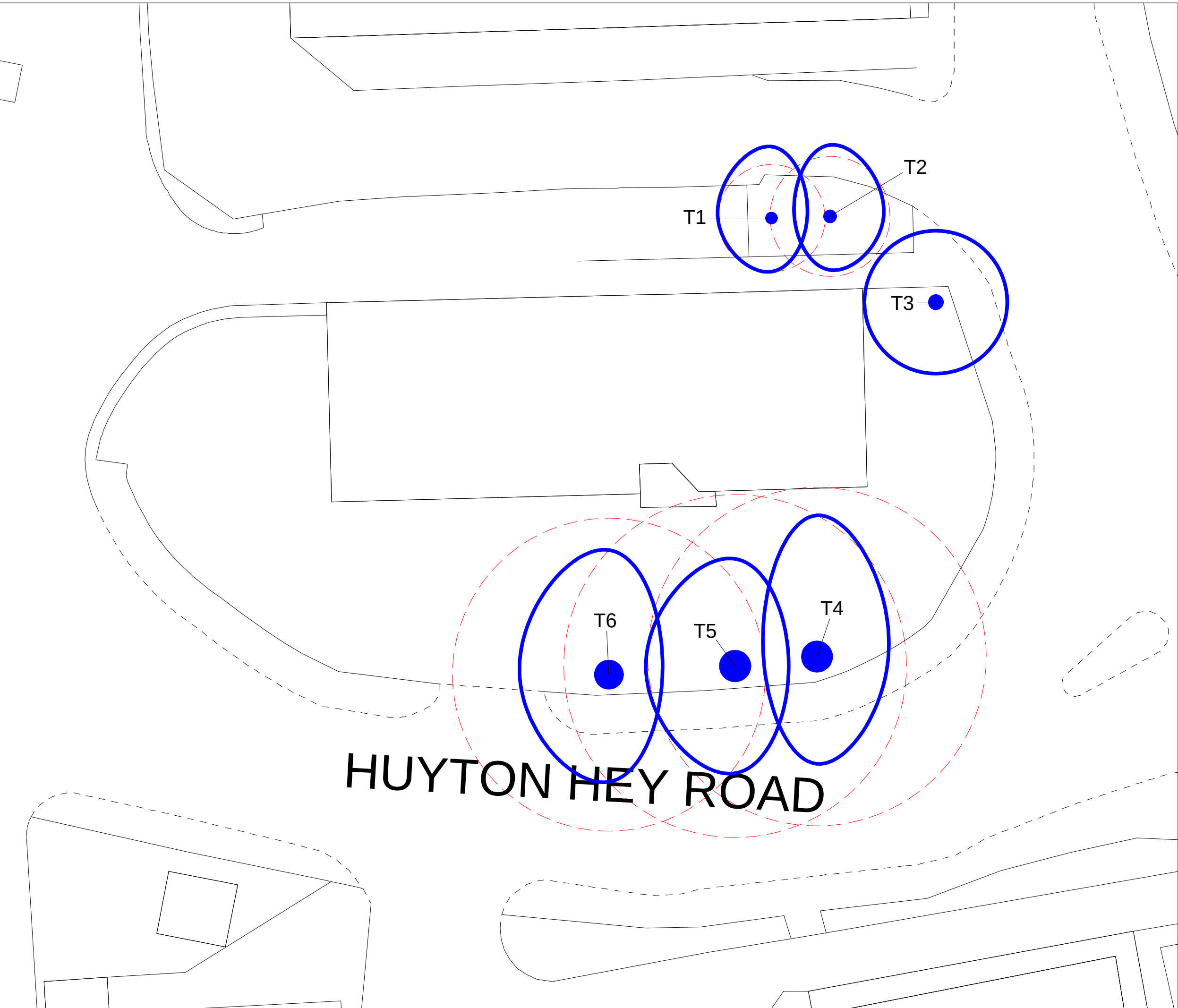
Age Class

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

Good – Feature needs little, if any attention.
Fair – Feature has minor, but rectifiable defects.
Poor – Feature has major defects or is in late decline.
Dead – Feature is dead.

Appendix 3.0 Arboricultural Plans



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

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Court Hey Park
Roby Road
Huyton
L16 3NA

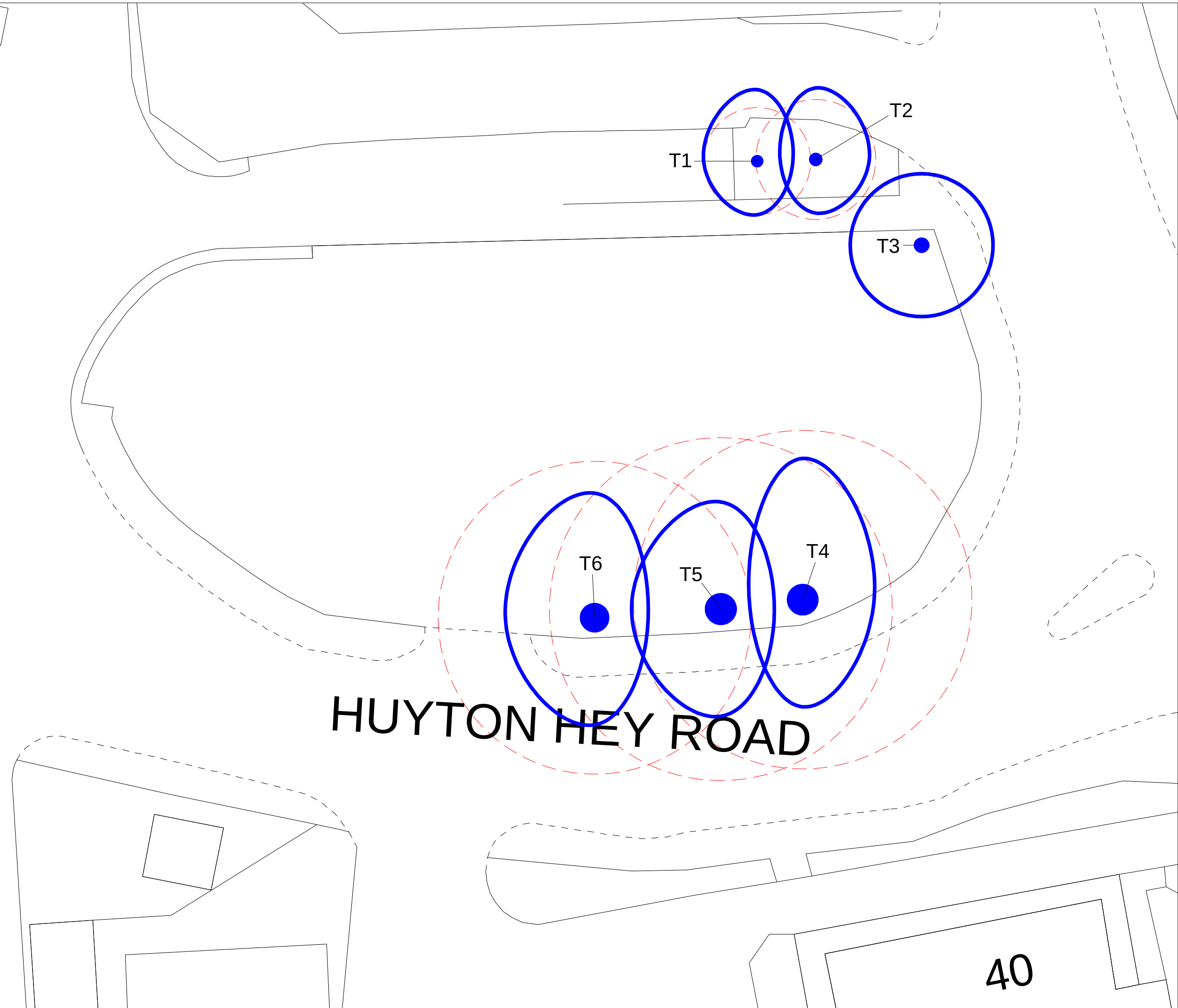
Email: info@weknowservices.co.uk

Client:
Knowsley Council

Site Address:
Former Education Building
Huyton Hey Road
Huyton
L36 5YH

Drawing Title: BS5837 Plan	Drawing No: 23/00013/BSP
Date: 19/09/2023	Scale: 1:100@A3
Drawn by: JH	

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Category A Trees



Category B Trees



Category C Trees



Category U Trees



Root protection area



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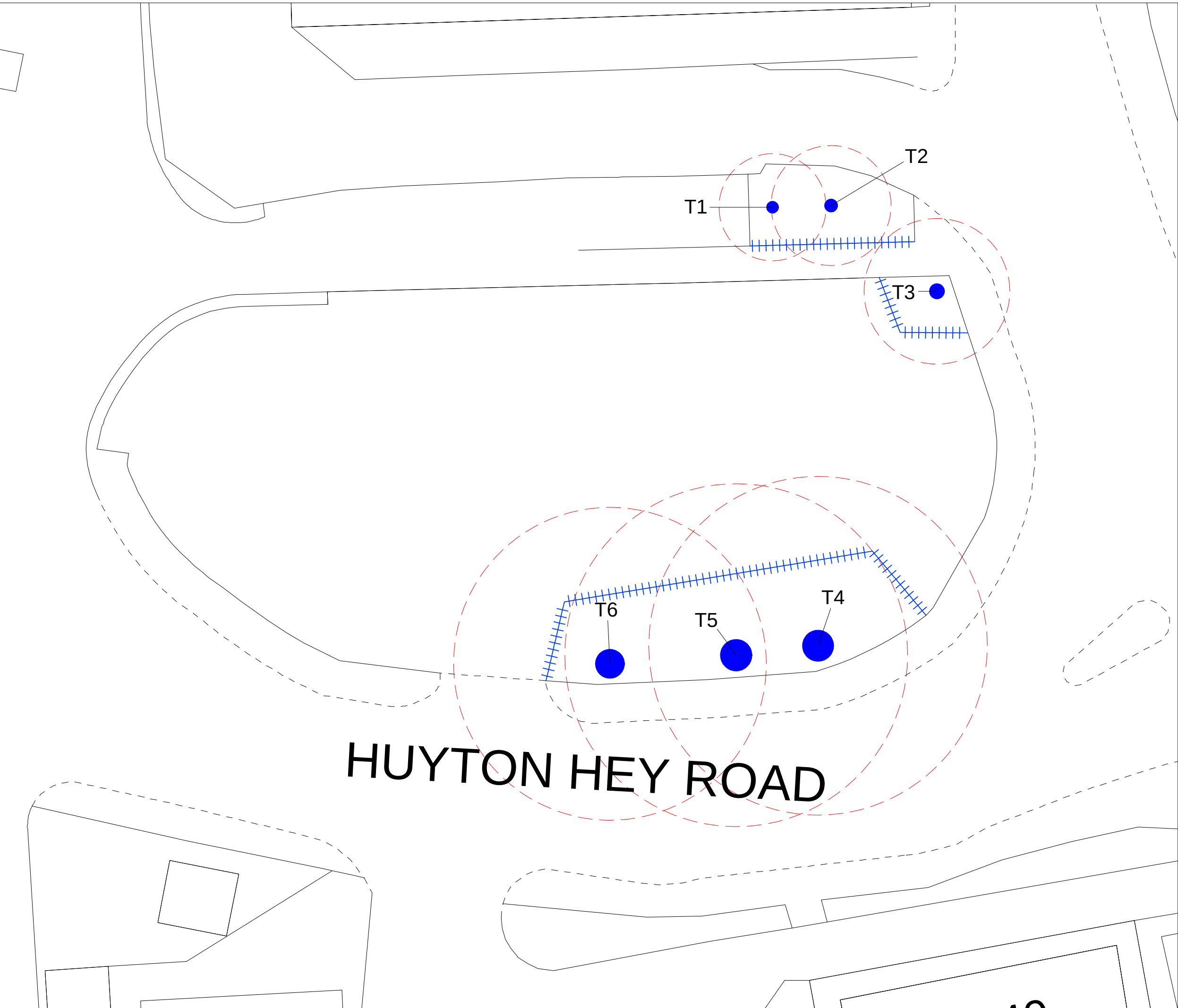
Client:
Knowsley Council

Site Address:
Former Education Building
Huyton Hey Road
Huyton
L36 5YH

Drawing Title: AIA Plan Drawing No: 23/00013/AIA

Date: 19/09/2023 Scale: 1:100@A3 Drawn by: JH

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-  Retained Trees
-  Trees to be Removed
-  Root protection area
-  Tree protection fencing



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Site Address:
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L36 5YH

Drawing Title:	Drawing No:	
Tree Protection Plan	23/00013/TPP	
Date:	Scale:	Drawn by:
19/09/2023	1:100@A3	JH

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