SYNTEGRA CONSULTING

Dixon's Academy, Newall Green HS, Greenbrow Rd, Manchester, M23 2SX

Arboricultural Implications Assessment

December 2023

Rev B



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QUALITY STANDARDS CONTROL

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Revision	-	*A*	*B*
Date	08/12/2023	08/12/2023	15/12/2023
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1.0 INTRODUCTION

1.1 Syntegra Consulting Ltd ("SC") were instructed to carry out an arboricultural survey of trees at their site at Dixons Academy, Greenbrow Road, Manchester.

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 5 April 2023 by means of inspection from ground level by an experienced and qualified arboriculturist. 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- FS0998-IBI-A-14-XX-D-L-7025.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 wet and windy.

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	228m^2	N/A	N/A	Yes
T2	203m^2	N/A	N/A	Yes
T3	215m^2	N/A	N/A	Yes
T4	282m^2	N/A	N/A	Yes
T5	275m^2	N/A	N/A	Yes
T6	235m^2	N/A	9.80	Yes
T7	118m^2	N/A	9.80	Yes
T8	180m^2	N/A	37.50	Yes
T9	137m^2	N/A	54.40	Yes
G1	65m^2	N/A	N/A	Yes
G2	20m^2	N/A	6.30	Yes with the loss of 3 trees
G3	24m^2	N/A	10.50	Yes
G4	10m^2	N/A	17.40	Yes

4.0 IMPACT ASSESSMENT

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

	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, T7, T8, T9, G1, G2, G3 & G4	N/A	N/A	G2(3 trees)

5.1 COMPENSATORY PLANTING

5.1.1 Due to the loss of the trees identified in section 3.4 it is proposed as the temporary classroom units will only be in position for one school year the two trees requiring removal will be re-instated upon removal of the units in 2025.

5.1.2 This will have a number of benefits for the development and the character of the area. These being:

- Give a greater diversity of age class on the site; increasing sustainability.
- Give a greater diversity of species and therefore wildlife habitat.

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 1: Tree Survey Schedule

Arboricultural Data Sheet:		Date of Survey: 05/04/23		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	Oak	710	18.60	M	6.5	5.0	5.0	6.5	3.00	B	A co-dominant specimen with reasonable form	80+	**B2**
T2	Oak	670	19.40	M	6.5	6.0	5.0	6.0	3.50	B	A co-dominant specimen with reasonable form.	80+	**B2**
T3	Beech	690	18.00	FM	5.5	4.0	6.0	4.0	3.00	B	A co-dominant specimen with reasonable form.	80+	**B2**
T4	Oak	790	18.00	M	9.0	8.5	9.0	8.5	2.50	B/C	A co-dominant specimen with reasonable form with early decline in canopy.	60-80	**B2**
T5	Oak	780	18.40	FM	6.5	6.0	6.5	6.5	3.00	B/C	A co-dominant specimen with reasonable form with early decline in canopy.	60-80	**B2**
T6	Horse Chestnut	720	15.20	M	7.0	7.0	7.0	5.5	2.00	C	A co-dominant specimen situated adjacent to a highway in decline due to Bleeding Canker.	10-20	**C2**
T7	Ash	510	15.80	EM	6.0	5.0	5.0	5.0	1.50	C	A co-dominant specimen situated adjacent to a highway in decline due to Ash Dieback.	10-20	**C2**
T8	Lime	630	18.60	EM	7.0	7.0	7.0	6.0	3.50	B	An individual specimen with reasonable form situated adjacent to a highway.	40-60	**B2**
T9	Lime	550	18.60	EM	6.0	5.0	6.5	6.0	2.00	B/C	An individual specimen with reasonable form but minor deadwood situated adjacent to a highway.	40-60	**B2**
G1	Ash, Alder & Willow	380<	14.20	Y/SM	-	-	-	-	1.50	B/C	A poor-quality mixed species group.	20-40	**C2**

Arboricultural Data Sheet:		Date of Survey: 05/04/23										
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					
G2	Alder & Cherry	210 avg.	7.20	SM	-	-	-	-	1.00	B/C	An internal ornamental group.	40-60	C2
G3	Sycamore & Elm	230 avg.	8.20	SM	-	-	-	-	1.50	B/C	A poor-quality self-seeded linear belt.	40-60	C2
G4	Beech & Sycamore	150 avg.	5.80	SM	-	-	-	-	0.00	B/C	A poor-quality group which will outgrow its location	10-20	C2

APPENDIX 2: 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)	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

A	Good
B	Fair
C	Poor
D	Dead

APPENDIX 3: Tree Plans

Category A Trees

Category B Trees

Category C Trees

Category U Trees

Root protection area

Site Address:	Dixons Academy Greenbrow Road Manchester
Drawing Title:	BS5837 Plan
Drawing No:	DAGRM/BS/01
Date:	07/12/2023
Scale:	1:400@A1
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.
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MUGA

TBC
Existing parking spaces retained including:
1No. 2.4m x 4.8m bay
4No. accessible bays
(1No. existing bay removed)

Existing gate retained

Existing crossing point used as pedestrian route to temporary school buildings. Exact location TBC

Condition of Existing Decking to be Reviewed

Bin Store
To be removed and new topsoil and grass seed laid to existing falls

Access Path
Adjacent grass to be regraded to suit fall on path. Alternatively small upstand edge created to path.

GREENBROW ROAD

CLAY LANE

PEDESTRIAN ENTRANCE

VEHICULAR ACCESS

REFUSE STORE

SUB STATION

OUTBUILDING

Newall Green High School

The Newall Green Public House

Tuffley Road

Warwood Drive

No. 167-169

No. 171-173

No. 15

No. 5-7

Category A Trees

Category B Trees

Category C Trees

Category U Trees

Root protection area

Site Address:	Dixons Academy Greenbrow Road Manchester
Drawing Title:	AIS Plan
Drawing No:	DAGRM/AIS/01 Rev A
Date:	12/12/2023
Scale:	1:400@A1
Drawn by:	CS

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