TREE SOLUTIONS

TREE SURVEY SCHEDULE (BS5837: 2012)

SITE:	COLEG LYSFASI – PROPOSED NEW ACCOMMODATION BLOCK
CLIENT:	COLEG CAMBRIA
BRIEF:	ARBORICULTURAL IMPACT ASSESSMENT

SURVEYOR:	A. HENDERSON	
ASSESSMENT DATE:	21/05/2024	PAGE 1 OF 1
VIEWING CONDITIONS:	CLEAR	
JOB REFERENCE:	24/AIA/DEN/86	

TREE NO. T - Tree G - Group H- Hedge	SPECIES (COMMON NAME)	AGE	HEIGHT (m) + CROWN CLEARANCE/ DIRECTION OF GROWTH (N.S.E.W)	RADIAL CROWN SPREAD (m)				STEM/ MULTI-STEM* DIA. (mm)	VITALITY	COMMENTS	MANAGEMENT	CATEGORY & SUB-CATEGORY GRADING BS 5837	BS 5837 RADIUS (m) RPA (m²)
				N	S	E	W						
T1	Pine (Scots)	EM	12 1.5N	3.5	3.5	3	3	420	G	• Good quality tree • No obvious defects noted • E.R.C. 20+	• No works	B2	5 80m²
T2	Cherry	M	12 1.5N	6	7	6.5	6	500	G	• Hard standing and MUGA over primary rooting area • No visual defects • E.R.C. 20	• Crown lift to 2.5m	B2	6 113m²
T3	Birch	M	15 1.5S	1.5	6	4	5	330	G	• Ivy cad stem impeding inspection • Crown bias south • E.R.C. 20	• No works	B2	4 49m²
T4	Sycamore	EM	16 3N	6.5	4.5	5	5	510	G	• Bifurcates at 2m with included compression union – good reaction wood beneath • E.R.C. 20	• No works	B2	6 118m²
T5	Oak	SM	8	1	1	2	0.5	200	M	• Majorly suppressed with poor structural form • E.R.C. 10	• No works	C3	2.4 18m²
T6	Birch	EM	13	4.5	1	2	0.5	200	M	• Reduced vigour • E.R.C. 10	• No works	C2	2.4 18m²
T7	Whitebeam	SM	6	2	2	2.5	1.5	150	G	• Small insignificant tree • No obvious defects • E.R.C. 10	• No works	C2	1.8 10m²

HEADINGS & ABBREVIATIONS

TREE NO.	REFERENCE NUMBER. REFER TO PLAN OR NUMBERED TAGS WHERE APPLICABLE (T = TREE, G = GROUP, H = HEDGE)
SPECIES:	COMMON NAME (LATIN NAMES AVAILABLE ON REQUEST)
AGE RANGE/LIFE STAGE:	Y = YOUNG, SM = SEMI MATURE, EM = EARLY MATURE, M = MATURE, PM = POST MATURE
HEIGHT:	ESTIMATED AND RECORDED IN METRES. APPROXIMATELY 1 IN 10 TREES ARE MEASURED USING A CLINOMETER AND THE REMAINDER ESTIMATED AGAINST THE MEASURED TREES
CROWN SPREAD:	MAXIMUM CROWN RADIUS MEASURED TO THE FOUR CARDINAL COMPASS POINTS FOR SINGLE SPECIMENS ONLY (MEASUREMENT FOR TREE GROUPS - MAXIMUM RADIUS OF THE GROUP)
CROWN CLEARANCE & DIRECTION OF GROWTH:	HEIGHT IN METERS OF CROWN CLEARANCE ABOVE ADJACENT GROUND LEVEL (TO INFORM ON GROUND CLEARANCE, CROWN/STEM RATIO AND SHADING)
STEM DIA/MULTI-STEM DIA:	STEM DIAMETER - MEASURED AT APPROXIMATELY 1.5 METRES ABOVE GROUND LEVEL OR A COMBINATION OF STEMS FOR MULTI-STEMMED TREES
VITALITY:	A MEASURE OF PHYSIOLOGICAL CONDITION. D = DEAD, MD = MORIBUND, P = POOR, M = MODERATE, G = GOOD
E.R.C. = ESTIMATED REMAINING CONTRIBUTION:	RELATIVE USEFUL LIFE EXPECTANCY (YEARS)
BS 5837CATEGORY & SUB-CATEGORY GRADING:	A = HIGH QUALITY AND VALUE, B = MODERATE QUALITY AND VALUE, C = LOW QUALITY AND VALUE, U = UNSUITABLE FOR RETENTION (SUB-CATEGORY REFERS TO ARBORICULTURAL., LANDSCAPE AND CULTURAL/CONSERVATION VALUES)
BS 5837 RADIUS & BS 5837 RPA:	PROTECTIVE DISTANCE - RADIUS FROM THE CENTRE OF THE STEM TO THE LINE OF TREE PROTECTION (CONSTRUCTION EXCLUSION ZONE - CEZ) AND PROTECTIVE BARRIER ROOT PROTECTION AREA - BS 5837 (2012) ANNEX D (THE RECOMMENDATIONS STATE THAT THE RPA SHOULD BE CAPPED AT 707 M²) NOTE – ALL CALCULATIONS ROUNDED TO NEAREST DECIMAL

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T8	Sycamore	EM	12 2W	3.5	4.5	5	5	490	G	• Co-dominant stems from 3.5m • No significant defects • E.R.C. 20+	• No works	B2	6 109m²
T9	Sycamore	M	12 3N	1	3.5	1	5	360	G	• Naturally colonised tree on embankment west of retaining wall • E.R.C. 20	• No works	C2	4.3 59m²
T10	Sycamore	SM	13	2	4	1	5	340	G	• As T9	• No works	C2	4 52m²
T11	Purple Beech	M	17	8	6.5	8.5	7	710	G	• Large prominent tree • E.R.C. 40	• No works	A2	8.5 228m²
T12	Oak	EM	15 1N	8.5	6	7.5	6.5	460	G	• Well established tree • Good future potential • E.R.C. 20+	• No works	B2	5.5 96m²
T13	Alder	Y	5	0.5	1	0.5	1	60	M	• Small, young tree with reduced vigour • E.R.C. 10	• No works	C3	1
T14	Birch	Y	7	1.5	1.5	1.5	1.5	60	M	• As T13	• No works	C3	1
G1	Hawthorn	EM	6	2	2	2	2	100	G	• Overgrown/unmanaged boundary hedgerow • E.R.C. 20	• Could be brought back into management if required	C2	1.2 5m²
G2	Holly Hazel Elder	EM	7	2	2	2	2	160	G	• Unmanaged and insignificant scrub on boundary embankment • E.R.C. 0	• Remove	C3	1.9 12m²
G3	Hawthorn/Hazel	EM	6	2	2	2	2	≤60	G	• Overgrown/unmanaged boundary hedgerow & lapsed coppice • E.R.C. 10	• Re-coppice as part of hedgerow works	C2	1
G4	Hazel/Willow	SM	4	2	2	2	2	20x20 90	G	• Mixed linear planting above retaining wall • E.R.C. 10	• No works	C2	1

Table 1   **Cascade chart for tree quality assessment**

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
Trees unsuitable for retention (see Note)				
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	• 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 category U trees (e.g. 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, or very low quality trees suppressing adjacent trees of better quality *NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see **4.5.7***.			See Table 2
	1 Mainly arboricultural qualities	**2 Mainly landscape qualities**	**3 Mainly cultural values, including conservation**	
Trees to be considered for retention				
Category A **Trees of high quality** with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	See Table 2
Category B **Trees of moderate quality** with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value	See Table 2
Category C **Trees of low quality** with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value	See Table 2