DRAFT
Pre-Application Consultation

Tre Survey & Indicative Arboricultural Impact Assessment

Borras Park Community Primary School, Wrexham

Prepared for:

READ CONSTRUCTION

Our Ref: 20/AIA/WXM/254

May 2020

Tree Solutions Ltd

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Arboricultural Consultants

TREE SURVEY SCHEDULE (BS5837: 2012)

SITE:	BORRAS PARK COMMUNITY PRIMARY SCHOOL, WREXHAM
CLIENT:	READ CONSTRUCTION
BRIEF:	ARBORICULTURAL IMPACT ASSESSMENT

SURVEYOR:	A. HENDERSON
ASSESSMENT DATE:	12/03/2020
VIEWING CONDITIONS:	CLEAR
JOB REFERENCE:	20/AIA/WXM/254

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) N	S	E	W	STEM/ MULTI-STEM* DIA. (mm)	VITALITY	COMMENTS	MANAGEMENT	CATEGORY & SUB-CATEGORY GRADING BS 5837	BS 5837 RADIUS (m) RPA (m^2)
T1	Rowan	M	4.5 2E	2	2	1.5	2	160	G	• Small tree with no visual defects • E.R.C. 20	• Remove for proposed car park	B2	1.9 12m²
T2	Rowan	M	4.5 2N	2	2	2	1.5	220	G	• Forms part of linear group at pedestrian entrance to school • No visual defects • E.R.C. 20	• N/A	B2	2.6 22m²
T3	Rowan	M	5.5 1.5S	2.5	2.5	2.5	2	260	M	• Decay on main stem • Poor quality tree with limited safe & useful life expectancy in location • E.R.C. 0	• Remove & replace with better quality specimen	C2	3 31m²
T4	Rowan	M	5.5 2S	2	3	2.5	2.5	290	G	• As T2 • Pedestrian barrier embedded in stem at base • E.R.C.20	• N/A	B2	3.5 38m²
T5	Poplar (Hybrid)	EM	13 3S	4	5	5	4	430	G	• No visual defects • Not the most suitable tree species for location within school grounds • E.R.C. 20	• Remove for development	B2	5 84m²

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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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T6	Field Maple	EM	9 1.5S	1.5	2	2	2	310	G	• Located on frontage & offers amenity/screening value from Borras Park Rd • E.R.C. 20	• N/A	B2	3.7 43m²
T7	Field Maple	EM	8 2N	2.5	3	1.5	2	270	M	• Poor structural crown form • E.R.C.10	• Remove & replacement – see landscape plan	C3	3.2 33m²
T8	Field Maple	EM	9 2.5S	3.5	4	4	4	430	G	• As T6 • Good quality prominent tree • E.R.C.20	• No works	B2	5 84m²
T9	Cherry	EM	6 1S	2	3.5	1.5	2.5	200	G	• Poor form • E.R.C.10	• Remove & replacement – see landscape plan	C3	2.4 18m²
T10	Rowan	EM	10 1N	2	2	1	2.5	200	G	• Poor form • Epicormic growth around base • E.R.C.10	• Remove & replacement – see landscape plan	C2	2.4 18m²
T11	Field Maple	EM	12	2.5	4	4	4.5	400	G	• Topped out at 2m in past resulting in multi-stemmed secondary crown • E.R.C.20	• N/A	B2	4.8 72m²
T12	Oak	M	15 2N	8	7	8	5	760	G	• Prominent mature tree on site boundary • High amenity & landscape value • Tarmac playground over primary rooting area to west • E.R.C.40	• N/A •	A2	9 261m²
T13	Cherry	M	9 1.5W	5	1	3.5	4	350	G	• No visual defects • E.R.C.20	• N/A	B2	4.2 55m²

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T14	Field Maple	SM	6 2N	2	1.5	1	2.5	190	G	• Small tree with no defects • E.R.C.20	• No works	B2	2.3 16m²
T15	Oak	M	15 3W	5	5	6	6	560	G	• Boundary mature tree screened by vegetation • Large diameter dead wood in crown • E.R.C.40	• Remove dead wood	A2	6.7 142m²
T16	Field Maple	EM	10	3	1	3	2	210	G	• Within unused wildlife area • E.R.C.10	• No works	C2	2.5 20m²
T17	Field Maple	EM	10	1.5	3	3	3	290	G	• Within unused wildlife area • E.R.C.10	• No works	C2	3.5 38m²
T18	Ash	SM	9	2	2	2	2	220	G	• Within unused wildlife area • Not visually prominent • E.R.C.10	• Remove & replacement – see landscape plan	C2	2.6 22m²
T19	Birch	EM	9	2	1.5	1.5	1.5	200	G	• As T18	• Remove & replacement – see landscape plan	C2	2.4 18m²
T20	Lime	SM	5	2	2	2	2	200	G	• Young well-established tree with goo future potential • E.R.C.20	• No works	B2	2.4 18m²
T21	Cherry	EM	6 1N	3	3	3	3	250	G	• No visual defects • E.R.C.20 •	• No works	B2	3 28m²
T22	Cherry	M	5 1S	4.5	4.5	4	4	360	G	• No visual defects • E.R.C.20	• Remove for proposed works & replace within school grounds	B2	4.3 59m²

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T23	Cherry	EM	8 1.5E	4.5	2	3.5	3.5	240	G	• No visual defects • E.R.C.20	• Remove for proposed works & replace within school grounds	B2	2.9 26m²
T24	Sorbus	EM	6	1	2	2	0.5	160	G	• Small tree, easily replaced by new planting • E.R.C.10	• Remove for proposed works & replace within school grounds	C2	1.9 12m²
T25	Sorbus	EM	3.5	1	1	1.5	1	150	G	• As T24	• Remove for proposed works & replace within school grounds	C2	1.9 10m²
T26	Cherry	M	9 0.5S	3.5	4.5	5	4	250x2 (354)	G	• Twin stemmed tree from 0.5m • E.R.C.20	• Remove for proposed works & replace within school grounds	B2	4.2 57m²
T27	Cherry	EM	3.5 1S	1.5	2	0.5	1.5	190	G	• Young tree, planted too close to T26 with insufficient space to develop • E.R.C.10	• Remove & replace	C2	2.3 16m²
T28	Malus	EM	5	2	2	3	3	160x2 (226)	G	• No visual defects • E.R.C.20	• Remove for proposed works & replace within school grounds	B2	2.7 23m²
T29	Cherry	M	10 1S	4	4	4.5	2	300	G	• No visual defects • E.R.C.20	• Remove for proposed works & replace within school grounds	B2	3.6 41m²
T30	Birch	M	9 1N	2.5	2	2	2	200	G	• Leans 20° east of vertical • Stem abuts planting cage • E.R.C.10	• Remove for proposed works & replace within school grounds	C2	2.4 18m²
T31	Birch	SM	9	1.5	1.5	1.5	1.5	100	G	• No visual defects • Small tree, easily replaced • E.R.C.10	• N/A	C2	1.2 5m²
T32	Birch	SM	7	1	1	1	1	80	G	• As T31	• N/A	C2	1 3m²

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T33	Birch	M	13 1S	2	2	3	2	310	G	• No visual defects • Forms part of linear group along pedestrian footpath • E.R.C.20	• No works	B2	3.7 43m²
T34	Cherry	EM	5 1S	2	2	3	2	310	G	• As T33	• No works	B2	3.7 43m²
T35	Birch	M	13 1N	2	2	2	2	290	G	• As T33	• No works	B2	3.5 38m²
T36	Cherry	M	9	5	5	3	4	310	G	• As T33	• No works	B2	3.7 43m²
T37	Cherry	EM	4 1S	1.5	2	1.5	1.5	200	M	• Poor structural form • E.R.C.10	• Would eb best replaced	C2	2.4 18m²
T38	Poplar (Hybrid)	EM	13	2	2	2	2	290	G	• No visual defects • E.R.C.20	• Remove for proposed works & replace within school grounds	C2	3.5 38m²
T39	Apple	SM	2.5	1	2	2	1	120	M	• Small young tree within playground • E.R.C.10	• Remove for proposed works & replace within school grounds	C2	1.4 7m²
T40	Oak	EM	6	5	3	4.5	4.5	300	G	• No visual defects • Used by kids for climbing • Seat around base • E.R.C.20	• Remove for proposed works & replace within school grounds	B2	3.6 41m²
T41	Cherry	SM	4	3.5	3.5	3	2	190	G	• No visual defects • Small tree within playground • E.R.C.20	• No works	B2	2.3 16m²
T42	Rowan	SM	3.5	1	0.5	1.5	0.5	90	G	• As T41	• No works	B2	1 4m²

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T43	Rowan	SM	3.5	1.5	1	1.5	1	140	G	• As T41	• No works	B2	1.7 9m²
T44	Rowan	EM	4	1	1	1	1	130	G	• Small young tree • E.R.C.10	• No works	C2	1.5 8m²
T45	Rowan	EM	4.5	1	1	1	1	130	G	• As T44	• No works	C2	1.5 8m²
T46	Rowan	EM	7 1S	1.5	2	2	2	240	G	• No visual defects • Small tree within playground • E.R.C.20	• No works	B2	2.8 26m²
T47	Wingnut	M	6.5 2S	4	5	3.5	4	490	G	• Prominent tree • E.R.C.20	• No works	B2	5.9 109m²
T48	Rowan	M	5	3	3	3	1.5	240	G	• No visual defects • E.R.C.20	• No works	B2	2.8 26m²
T49	Cherry	EM	4 2N	4	2.5	2.5	2	160	G	• Small tree, easily replaced • E.R.C.10	• Remove for proposed works & replace	C2	1.2 12m²
T50	Field Maple	EM	4.5 2N	3	3	2.5	2.5	200	G	• No visual defects • E.R.C.20	• Remove for proposed works & replace	B2	2.4 18m²
T51	Cherry	SM	2	1.5	2	2	2	110	M	• Small tree, easily replaced • E.R.C.10	• Remove for proposed works & replace	C1	1.3 5m²
T52	Rowan	SM	2	1	1	1	1	60	P	• Poor quality insignificant tree • E.R.C.10	• Remove for proposed works & replace	C1	0.7 2m²
T53	Birch	M	9	5	4	4	5	390	G	• Part of linear group – prominent on-site frontage • No visual defects • E.R.C.20	• No works	B2	4.7 69m²

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G1	Rowan Birch Malus Cherry	EM	≤6					≤170	G	• Small mixed copse • No visual defects • E.R.C.20	• Remove 3 trees for proposed works	B2	2 3m²
G2	Poplar x 3 Birch x 1 Willow x 1	EM	≤12					≤240	G	• Closed canopy group with exposed roots, buttresses • Inappropriate species within school grounds • E.R.C.10	• No works	C2	2.9 26m²
G3	Willow x 3 Poplar Birch x 2	EM	≤4	2	2	2	2	≤210	G	• As G2	• No works	C2	2.5 20m²
G4	Hybrid Poplar	EM	≤11	2	2	2	2	≤270	G	• Planted either side of pedestrian walkway • Raised roots about to displace tarmac surface dressing • Inappropriate tree species for school grounds and adjacent to high value and frequent target • E.R.C.20	• Remove & replacement – see landscape plan	C2	3.2 33m²
G5	Malus Cherry	Y	1.5					≤90	M	• Newly planted trees • E.R.C.10	• Remove & replacement – see landscape plan	C3	1 4m²
G6	Ash x 1 Cherry x 1 Maple x 2	Y/SM	≤3.5					≤90	M	• Young insignificant trees • 1 Dead • E.R.C.10	• Remove & replacement – see landscape plan	C3	1 4m²
G7	Hybrid Poplar	EM	≤13	3	3	3	3	≤280	G	• Small group forming closed canopy • As G4 - Inappropriate tree species for school grounds and adjacent to high value and frequent target • E.R.C.10	• Remove & replacement – see landscape plan •	C2	3.4 35m²

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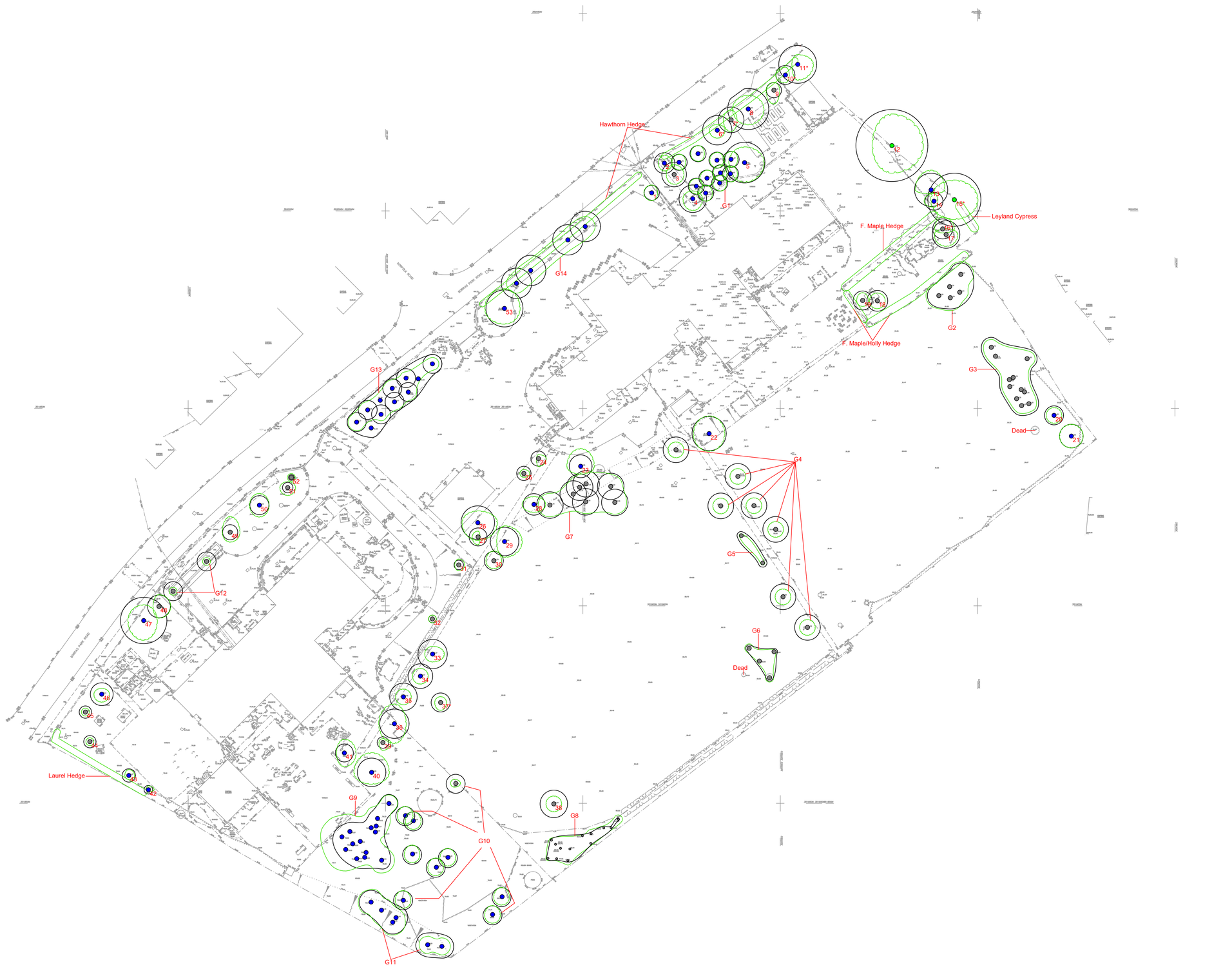
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G8	Birch Sorbus	Y	2					≤30	G	• Newly planted trees • E.R.C.10	• No works	C3	0.5
G9	Sorbus Hazel Birch Cherry Willow Pine	SM / EM	≤10					≤190	G	• Mixed group in Forest School/Outdoor Classroom • E.R.C.20	• Remove 2 no trees marked to accommodate MUGA	B2	2.3 60m²
G10	Pine Larch Birch Rowan	EM	≤8					≤200	G	• As G9	• Remove 6 no trees marked to accommodate MUGA	B2	2.4 18m²
G11	Field Maple Ash	EM	≤13					≤250	G	• As G10	• No works	B2	3 28m²
G12	Cypress	EM	≤6	1	1	1	1	≤200	M	• Insignificant unattractive tree located within confined rooting environment • E.R.C.10	• Remove	C3	2.4 18m²
G13	Liquidambar Birch Hawthorn	SM / EM	≤7					≤200	G	• Mixed group offering amenity and screening value along site frontage • E.R.C.20	• No works	B2	2.4 18m²
G14	Birch	M	9	2.5	2.5	2.5	2.5	≤320	G	• Linear group along site frontage • Offer amenity & landscape value • E.R.C.10	• No works	C3	3.8 46m²

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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

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Legend

Root Protection Area Modified to Account for Site Features

Category — Crown Spread — Tree Number — Root Protection Area

- Category A (High Quality)
- Category B (Moderate Quality)
- Category C (Low Quality)
- Category U (Dead/Dying/In Decline)

NOTE: Tree/group numbers marked with an * have approximate locations

Client: Read Construction	
Project: Borras Park Community Primary School, Wrexham	
Title: Preliminary Tree Constraints Plan	
Scale: 1:500 @ A1	Date: March 2020
Drawn By: NB	Revision: -
Job Ref: 10/AIA/WXM/254	Drawing No: 01

Do not scale from this drawing all dimensions to be checked on site.

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Tree Proposed for Removal

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Project: Borras Park Community Primary School, Wrexham	
Title: Indicative Arboricultural Impact Assessment	
Scale: 1:500 @ A1	Date: May 2020
Drawn By: NB & AM	Revision: A
Job Ref: 20/AIA/WXM/254	Drawing No: 02

Do not scale from this drawing all dimensions to be checked on site.

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