Tree Solutions

Arboricultural Consultants

TREE SURVEY SCHEDULE (BS5837: 2012)

SITE:	LAND AT TREWYTHEN HALL, GRESFORD
CLIENT:	TREWYTHEN HALL RESIDENTIAL CARE HOME
BRIEF:	ARBORICULTURAL METHOD STATEMENT - STABLES

SURVEYOR:	A. HENDERSON
ASSESSMENT DATE:	20/06/2020
VIEWING CONDITIONS:	GOOD
JOB REFERENCE:	20/AMS/WXM/260

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)
T21	Yew (Irish)	M	10 0	2.5	2.5	2.5	2.5	600	G	• Good quality specimen tree • E.R.C. 40	• N/A	A1	7 163m²
T22	Cedar (Lebanon)	FM	18 0.5N	9	10	8.5	8	980	G	• Good quality specimen tree • E.R.C. 40	• N/A	A1	12 435m²
T23	Beech	FM	18 0.5W	8	11	5	7	825	M	• 2 stems from base (640 & 520mm – diameter combined as per BS) • Large wide spreading tree with acute union between stems at base and fused main leaders in crown • Would open vista to T22 if removed • E.R.C. 20	• No works	B2	10 308m²
T24	Beech	EM	16 5W	4	2	2	3	380	M	• Overgrown self-set tree with no particular value • Would open vista to T22 if removed • E.R.C. 10	• No works	C2	4.5 65m²

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 M^2) NOTE – ALL CALCULATIONS ROUNDED TO NEAREST DECIMAL

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T25	Sycamore	M	16 1S	3	5	4	5	630	M	• Ivy clad insignificant overgrown self-set tree due to lack of past management • Would open vista to T22 if removed • E.R.C. 20	• As T23	C2	7.5 180m²
T26	Pine	M	12 0	3	4	2	2	530	M	• Part of group of 3 trees forming closed canopy • E.R.C. 20	• No works	B2	6.5 127m²
T27	Pine	M	12 1N	5	1	1	3	420	M	• As T26	• No works	B2	5 80m²
TT28	Pine	M	12 4S	2	1.5	3	2	520	M	• As T26	• No works	B2	6.5 122m²
T30	Oak	FM	15 0.5W	9	10	10	9	780	G	• Good quality tree • E.R.C. 40+ •	• N/A	A1	9.5 275m²
T31	Monkey Puzzle	M	13 3W	2.5	2.5	2.5	2.5	540	M	• Insignificant tree • E.R.C. 20	• Consider removal if required	B2	6.5 132m²
T33	Cedar	FM	18 1N	10	11	8	11	1300	G	• Good quality specimen tree • E.R.C. 40	• N/A	A1	15 707m²

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G4	Pine									• Poor quality trees with failed tops • E.R.C. <10	• Remove	U	N/A
G5	Pine	M	12 0	2	2.5	2	2	≤420	G	• Attractive small group worth retaining if possible • E.R.C. 20+	• N/A	B2	5 80m²

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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SURVEYOR:	A. HENDERSON
ASSESSMENT DATE:	06 JUNE 2012
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T1	Lime	FM	20 1S	5	5	5	5	930	M/G	• Prominent avenue tree • Dieback in crown (Squirrel damage) • Co-dominant stems from 15m with acute union but no sign of failure • E.R.C. 20-40	• May require dead wooding	A2	11 391m²
T2	Lime	FM	22 1S	6	7	6	7	1000	G	• As T1 • Large limb loss to west leaving open wound/scar • E.R.C. 20-40	• Remove dead wood from within crown	A2	12 452m²
T3	Maple	FM	18 2E	7	10	9	6	1100	M	• Ivy clad impeding inspection of lower stem • 4 co-dominant stems from 2.5m • E.R.C. 10-20	• N/A	A2	13 547m²
T4	Beech	M	16 1N	8	7	5	6	720	M	• Ivy clad impeding inspection • Retaining wall to west restricting root growth – RPA modified • Poor crown form • E.R.C. 20	• N/A	B2	9 235m²

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T5	Larch	EM	16 14S	5	4	2	1	320	P	• Entirely Ivy clad & top missing • E.R.C. 10	• N/A	C2	4 46m²
T6	Sycamore	M	17 1E	5	5	6	9	420	G	• 2 stems at 1m apart forming one closed canopy tree – Ivy clad • E.R.C.10-20	• N/A	B2	5 80m²
T7	Oak	FM	20 5E	12	10	12	11	1200	G	• Located on top of small shear face embankment to minor road – roots likely to extend beneath road – RPA modified to 2m within road & extending in opposite direction • Important historic tree to locale • E.R.C.40	• N/A	A3	14.5 652m²
T8	Beech	M	16 1.5E	10	8	11	5	850	G	• Within dense scrub • Leans east at 20º to vertical due to suppression from T7 • E.R.C. 10-20	• N/A	A2	10 327m²
T9	Sycamore	EM	11 0	4	4	4	4	200	M	• Self set insignificant tree • E.R.C. 0	• Fell	C2	2.5 18m²

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T10	Beech	EM	15 4N	8	2	5	4	480	M	• Majorly suppressed tree with asymmetric crown form • E.R.C. <10	• N/A	C2	6 104m²
T11	Oak	M	17 2E	6	3	7	5	710	M	• On top of roadside embankment • Lower crown reduced to clear power lines • E.R.C. 10	• N/A	B2	8.5 228m²
T12	Sycamore	M	17	7	5	6	5	601	M	• 2 stems from base (430 & 420mm – diameter combined as per BS) • Leans at 30º to vertical due to major suppression • E.R.C. 10	• N/A	B2	7 164m²
T13	Beech	M	16 5W	4	6	4	5	440	P	• Poor quality suppressed tree – large past limb failure • E.R.C. <10	• Fell if required	C2	5 88m²
T14	Pine	M	18 15N	3	5	3	3	400	M/G	• No significant defects • E.R.C. 20+	• N/A	B2	5 72m²
T15	Pine	M	20 16N	3	3	3	3	760	M/G	• No significant defects • E.R.C. 20+	• N/A	B2	9 261m²

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T16	Sycamore	M	16 2E	6	8	7	4	530	M	• Forms good screening as part of group • E.R.C. 20	• N/A	B2	6.5 127m²
T17	Sweet Chestnut	EM	10 0	2	2	1	1.5	420	P	• Poor quality majorly suppressed tree with no future in confined location • E.R.C. 0	• Fell as part of good management	U	N/A
T18	Beech	M	13 4W	6	4	3	4	500	P	• Woodland edge tree with poor crown form • E.R.C. 10	• N/A	C2	6 113m²
T19	Beech	M	13 4W	4	3	4	5	460	P	• Ivy clad impeding inspection • Poor quality suppressed tree with no long term future • E.R.C. 10	• N/A	C2	5.5 96m²
T20	Sycamore	M	16 1.5E	5	6	7	2	780	G	• Asymmetric crown form due to surrounding trees • No significant defects – provides good screening from road • E.R.C. 20	• N/A	B2	9.5 275m²
T21	Yew (Irish)	M	10 0	2.5	2.5	2.5	2.5	600	G	• Good quality specimen tree • E.R.C. 40	• N/A	A1	7 163m²

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T22	Cedar (Lebanon)	FM	18 0.5N	9	10	8.5	8	980	G	• Good quality specimen tree • E.R.C. 40	• N/A	A1	12 435m²
T23	Beech	FM	18 0.5W	8	11	5	7	825	M	• 2 stems from base (640 & 520mm – diameter combined as per BS) • Large wide spreading tree with acute union between stems at base and fused main leaders in crown • Would open up vista to T22 if removed • E.R.C. 20	• Consider removal to leave T22 as standalone feature	B2	10 308m²
T24	Beech	EM	16 5W	4	2	2	3	380	M	• Overgrown self set tree with no particular value • Would open up vista to T22 if removed • E.R.C. 10	• As T23	C2	4.5 65m²
T25	Sycamore	M	16 1S	3	5	4	5	630	M	• Ivy clad insignificant overgrown self set tree due to lack of past management • Would open up vista to T22 if removed • E.R.C. 20	• As T23	C2	7.5 180m²
T26	Pine	M	12 0	3	4	2	2	530	M	• Part of group of 3 trees forming closed canopy • No particularly good specimens or important to landscape so could collectively be removed • E.R.C. 20	• Consider removal if required	B2	6.5 127m²

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27	Pine	M	12 1N	5	1	1	3	420	M	• As T26	• Consider removal if required	B2	5 80m²
28	Pine	M	12 4S	2	1.5	3	2	520	M	• As T26	• Consider removal if required	B2	6.5 122m²
29	Oak	PM	6 4W	4	3	3	4	700	MD	• Only stump remaining with adventitious top growth • E.R.C. 10	• Retain for biodiversity value if possible	U	N/A
30	Oak	FM	15 0.5W	9	10	10	9	780	G	• Good quality tree • E.R.C. 40+	• N/A	A1	9.5 275m²
31	Monkey Puzzle	M	13 3W	2.5	2.5	2.5	2.5	540	M	• Insignificant tree • E.R.C. 20	• Consider removal if required	B2	6.5 132m²

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32	Horse Chestnut	PM	18 0	12	11	10	12	1900	M	• Wide spreading fully mature tree with 2 large diameter scaffolds and excessive end loading to canopy • Large crack between stems at base with decay within – potential for failure at this point • Ok to retain within open field as no significant targets but not a good tree to retain adjacent to road or residential dwellings • E.R.C. 20= if retained at sufficient distance from targets	• Consider crown reduction to alleviate loading on stem and prevent crown failure	B2	15 707m²
33	Cedar	FM	18 1N	10	11	8	11	1300	G	• Good quality specimen tree • E.R.C. 40	• N/A	A1	15 707m²
34	Horse Chestnut	EM	14 0.5E	2	2	1.5	2.5	420	M	• Ivy clad overgrown self set tree due to lack of site management • E.R.C. 20	• N/A	B1	5 80m²
35	Wellingtonia	M	20 5N	5	5	5	5	1320	G	• Good quality specimen tree • Would benefit from surrounding laurel etc being removed • E.R.C. 40	• Remove all scrub growth at base to leave standalone feature tree to entrance of nursing home	A1	15 707m²

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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. COMBINED .(mm)	VITALITY	COMMENTS	MANAGEMENT	CATEGORY & SUB-CATEGORY GRADING BS 5837	BS 5837 RADIUS (m) RPA (m^2)
36	Lime	FM	21 2S	8	8	7	7	980	G	• Top failed in past at 12m leaving large open cavity • 2 new leaders to west • Crown reduced in past • E.R.C. 20-40	• N/A	A2	12 435m²
37	Oak	FM	16 0.W	10	13	9	11	1130	G	• Good quality tree with no significant defects • Wide spreading crown that touches the ground to south and west • E.R.C. 40+	• May require crown lifting for clearance	A1	13.5 578m²
38	Oak	EM	14 1W	1	5	1	7	460	M/G	• Ivy clad tree within scrub/shrub layer outside eastern boundary – good screening • E.R.C. 20	• N/A	B2	5.5 96m²
G1	Sycamore Ash Holly	EM	≤15 3	2.5	2.5	2.5	2.5	≤300	M/G	• Scrub growth now forming dense screen along western boundary that has seen little if any management in past 30 years • E.R.C. 20	• N/A	B2	3.5 41m²
G2	Cherry Pine Sweet Chestnut Ash Hawthorn	Y/ SM	11 0	1.5	1.5	1.5	1.5	≤200	M	• Planted as a screen at 1m centres but never managed resulting in trees with poor form • E.R.C. 10	• Could be removed if required or thinned out to leave best stems	C2	2.5 18m²

TREE SURVEY SCHEDULE

TREE SOLUTIONS

SITE:	LAND AT TREWYTHEN HALL, GRESFORD
CLIENT:	TREWYTHEN HALL CARE HOME
BRIEF:	PHASE 1 TREE SURVEY

SURVEYOR:	A. HENDERSON
ASSESSMENT DATE:	06 JUNE 2012
VIEWING CONDITIONS:	GOOD
JOB REFERENCE:	12/AIA/WXM/87

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. COMBINED .(mm)	VITALITY	COMMENTS	MANAGEMENT	CATEGORY & SUB-CATEGORY GRADING BS 5837	BS 5837 RADIUS (m) RPA (m^2)
G3	Oak Cherry Pine Sweet Chestnut Ash Hawthorn	Y/ SM	11 0	1.5	1.5	1.5	1.5	≤250	M	• Planted as a screen at 1m centres but never managed resulting in trees with poor form • E.R.C. 10	• Could be removed if required or thinned out to leave best stems	C2	3 28m^2
G4	Pine	M	8 1N	3	1.5	1.5	1	≤570	M/P	• Poor quality trees with failed tops • E.R.C. <10	• Fell	U	N/A
G5	Pine	M	12 0	2	2.5	2	2	≤420	G	• Attractive small group worth retaining if possible • E.R.C. 20+	• N/A	B2	5 80m^2

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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