



Phase 1 Tree Survey & Preliminary Tree Constraints/Impact Assessment Plan

Land off Pont Adam Crescent, Ruabon, Wrexham

Prepared for:

CASTLEMEAD GROUP LTD

Our Ref: 14/AIA/WXM/138

27 March 2014

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TREE SURVEY SCHEDULE (BS5837: 2012)

TREE SOLUTIONS LTD

SITE:	LAND OFF PONT ADAM CRESCENT, RUABON, WREXHAM
CLIENT:	CASTELMEAD GROUP LTD
BRIEF:	PHASE 1 TREE SURVEY & PRELIMINARY PLANS

SURVEYOR:	A. HENDERSON
ASSESSMENT DATE:	20 MARCH 2014
VIEWING CONDITIONS:	GOOD
JOB REFERENCE:	14/AIA/W/XM/138

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 (m²)
T1	Beech	M	17 10N	5	5	6	6	650	G	- Located outside western boundary & forms part of a linear wooded strip - No access to survey - Crown lifted in past leaving flush cut wounds on stem - co-dominant stems from 2m - included - E.R.C. 20+	N/A	B2	7.8 191m²
T2	Beech	M	17 2E	4	4	6	6	480	G	- No significant defects - E.R.C. 20+	N/A	B2	5.8 104m²
T3	Beech	M	16 1E	4	7	6.5	6	600	G	- No significant defects - E.R.C. 20+	N/A	B2	7.2 163m²
T4	Holly	M	16 1E	2	3	2	2	280 300 (410)	G	- Twin stem from base - both recorded - No significant defects - E.R.C. 20+	N/A	B2	4.9 76m²

HEADINGS & ABBREVIATIONS

TREE NO.:
SPECIES:
AGE RANGE/LIFE STAGE:
HEIGHT:
CROWN SPREAD:
CROWN CLEARANCE & DIRECTION OF GROWTH:
STEM DIA/MULTI-STEM DIA:
VITALITY:
E.R.C. = ESTIMATED REMAINING CONTRIBUTION:
BS 5837 CATEGORY & SUB-CATEGORY GRADING:
BS 5837 RADIUS & BS 5837 RPA:

REFERENCE NUMBER. REFER TO PLAN OR NUMBERED TAGS WHERE APPLICABLE (T = TREE, G = GROUP, H = HEDGE)
COMMON NAME (LATIN NAMES AVAILABLE ON REQUEST)
Y = YOUNG, SM = SEMI MATURE, M = MATURE, PM = POST MATURE
ESTIMATED AND RECORDED IN METRES. APPROXIMATELY 1 IN 10 TREES ARE MEASURED USING A CLINOMETER AND THE REMAINDER ESTIMATED AGAINST THE MEASURED TREES
MAXIMUM CROWN RADIUS MEASURED TO THE FOUR CARDINAL COMPASS POINTS FOR SINGLE SPECIMENS ONLY (MEASUREMENT FOR TREE GROUPS - MAXIMUM RADIUS OF THE GROUP)
HEIGHT IN METERS OF CROWN CLEARANCE ABOVE ADJACENT GROUND LEVEL (TO INFORM ON GROUND CLEARANCE. CROWN/STEM RATIO AND SHADING)
STEM DIAMETER - MEASURED AT APPROXIMATELY 1.5 METRES ABOVE GROUND LEVEL OR A COMBINATION OF STEMS FOR MULTI-STEMMED TREES
A MEASURE OF PHYSIOLOGICAL CONDITION. D = DEAD, MD = MORIBUND, P = POOR, M = MODERATE, G = GOOD
RELATIVE USEFUL LIFE EXPECTANCY (YEARS)
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)
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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				N	S	E	W						
T5	Beech	M	17 2E	4	3	5	5	420	G	- No defects detected - E.R.C.20+	N/A	B2	5 80m ²
T6	Sycamore	M	18 4E	6	7	7	9	700	G	- Co-dominant stems from 2m - E.R.C.20+	N/A	A2	8.4 222m ²
T7	Lime	FM	20 2N	5	5	6	6	720	G	- Dead wood and squirrel damage in crown - Fully mature - E.R.C. 20	N/A	A2	8.6 235m ²
T8	Beech	M	19 4E	5	7	7	3	500	G	- Included union between stems at 8m - E.R.C. 10	N/A	B2	6 113m ²
T9	Lime	FM	20 2N	5	5	5	6	680	G	- Dead wood and squirrel damage in crown - Fully mature - E.R.C. 20	N/A	A2	8.2 209m ²
T10	Beech	M	19 2E	6	6	6	6	540	G	- Crown lifted in past leaving large flush cut wounds on stem - E.R.C. 20	N/A	A2	6.5 132m ²
T11	Sweet Chestnut	PM	16 1.5E	5	6	7.5	7	820	M	- Large diameter dead wood in crown & limb that overhangs site - E.R.C. 20	Remove overhanging dead limb back to boundary	B2	9.8 304m ²

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				N	S	E	W						
T12	Beech	M	20 4E	5	5	7	7	510	G	- No significant defects - E.R.C. 40	N/A	A2	6 118m ²
T13	Birch	FM	17 3E	5	4	5	7	500	M	- Ivy clad & rambling rose throughout crown - E.R.C. 10+	N/A	B2	6 113m ²
T14	Elm	M	16 1E	4	8	6	2	520	M/P	- Poor crown form - E.R.C. 10	N/A	C2	6.2 122m ²
T15	Sycamore	EM	15 3S	0	7	4	0	400	P	- Suppressed crown form as located beneath canopy of T16 - E.R.C. 0	N/A	C2	4.8 72m ²
T16	Beech	M	20 4S	5	7	5	6	600	G	- Prominent tree with no visual defects - E.R.C. 40	N/A	A2	7.2 163m ²
T17	Sycamore	M	16 1N	5.5	7	5.5	5	400 450 (602)	G	2 stems both recorded - Located on sheer face embankment with Liangollen Rd to south - Included union below co-dominant stems - E.R.C. 20	N/A	B2	7.2 164m ²
T18	Sycamore	M	17 1N	5	5	4	6	570 620 (842)	G	2 stems from base - As T17 - E.R.C. 20	N/A	B2	10 321m ²

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				N	S	E	W						
T19	Beech	EM	16 ON	5	4	5	5	420	G	- No significant defects - E.R.C. 20+	N/A	B2	5 80m²
T20	Sycamore	EM	12 1N	3	3	3	3	190 200 (276)	M	- Twin stem - both recorded - Past coppice & embedded in boundary palisade fence - E.R.C. 0	Fell	C2	3.3 34m²
T21	Sycamore	EM	15 1.5N	5	6	5	5	300 x 7 (794)	G	- Located south of boundary - Coppiced in past now forming 7 stems - all recorded - E.R.C. 10	Re-coppice if granted 3rd party consent	C2	9.5 285m²
T22	Ash	M	16 1E	4.5	5	4	3	300 390 (492)	M	- Past coppice - Poor crown form - Insignificant tree with no long-term value to site - E.R.C. 10	Fell for development	C2	5.9 110m
T23	Leyland cypress	FM	18 0	3	4	3	3	800	M	- Recent storm damage resulting in loss of eastern canopy - Unattractive tree of no amenity/landscape value to locale - Not appropriate to retain within context of residential development - E.R.C. 0	Fell for development	C2	9.6 290m²

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				N	S	E	W						
T24	Leyland cypress	FM	18 0	5	4	3	4	700	P	- As T23 - E.R.C. 0	Fell for development	C2	8.4 222m²
T25	Maple								MD	- In advanced decline - Major stem decay - E.R.C. 0	Fell	U	N/A
T26	Ash	EM	12 1N	7	3	3	5	390	M	- Poor crown form - Insignificant & no long-term viability within residential development	Fell for development	C2	4.7 69m²
T27	Oak	EM	15 0	7	6	5	5	430	G	- No defects - E.R.C. 20+	N/A	B2	5.2 84m²
T28	Oak	EM	11 0.5S	5	5	5	4	410	G	As T27	As T27	B2	4.9 76m²
T29	Ash	M	17 1E	6.5	5.5	5.5	5	560	G	- Good quality tree - E.R.C. 20+	N/A	A2	6.7 142m²
T30	Oak	EM	13 0.5E	4.5	4	4	4	360	G	As T28	N/A	B2	4.3 59m²

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T31	Oak	EM	14 1W	5	5	4.5	5	360 X2 (509)	G	2 stems both recorded - No defects - E.R.C. 20+	N/A	B2	6.2 117m²
T32	Oak	M	17 1S	7	7	6.5	6	1000	G	- Large dominant tree & best on site - Should be retained with POS if possible - E.R.C. 40	N/A	A2	12 452m²
G1	Birch	M	17 2E	2	2	4	4	≤320	G	- Linear group at 1m centres planted along boundary fence - E.R.C. 20	N/A	B2	3.8 46m²
G2	Elder Sycamore	EM	13	2	2	2	2	≤300	M	- Self set scrub growth on embankment - E.R.C. 10+	N/A	C2	3.6 41m²
G3	Sycamore	M	16 0N	4	5.5	5	5	≤450	G	- Small group of ivy clad self set trees - E.R.C. 20+	N/A	B2	5.4 92m²
G4	Hawthorn	FM	5	2	2	2	2	≤200	G	- Scrub growth outside southern boundary on railway embankment - E.R.C. 10+	N/A	C2	2.4 18m²
G5	Hawthorn Elder	M	≤7 0	2	2	2	2	≤200	M/P	- Ivy clad poor quality trees many with recent storm damage to crowns - Insignificant and of no long-term value within context of residential development - E.R.C. 10+	Fell for development	C2	2.4 18m²

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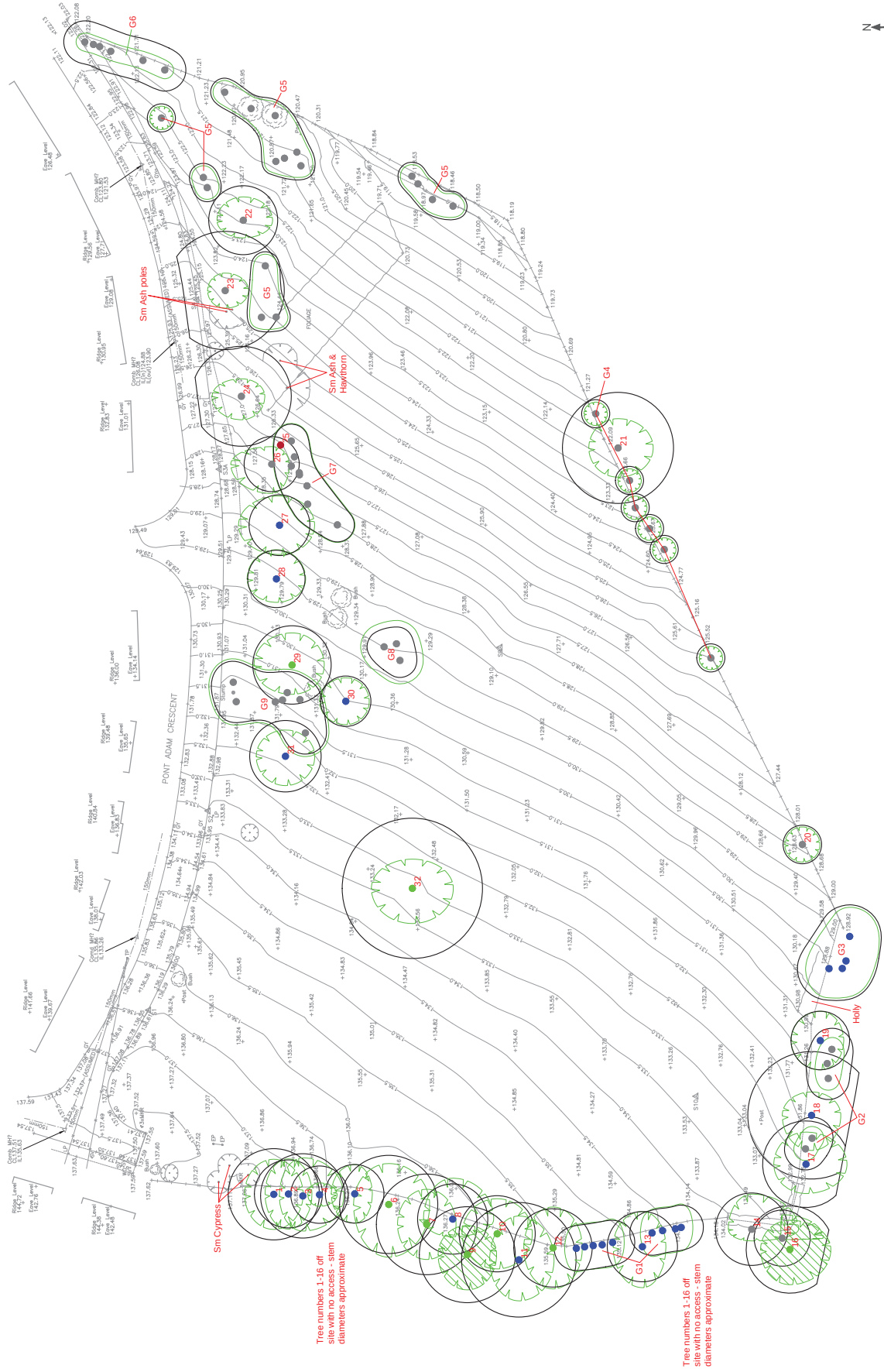
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G6	Leyland cypress	M	11 0	1.5	1.5	1.5	1.5	≤300	G	- Linear row of insignificant trees easily replaced by better quality specimen trees within development - E.R.C. 10+	Fell for development	C2	3.6 41m²
G7	Ash Horse Chestnut Hawthorn	EM	12 1N	3	3	3	3	≤240	M/P	- Group of insignificant small unmanaged trees - E.R.C. 10	Fell for development	C2	2.9 26m²
G8	Ash x1 Holly x 1 Oak x 1	EM	≤13 1N	4	4	4	4	≤240	M/P	As G7	Fell for development	C2	2.9 26m²
G9	Willow x 1 Oak x 1 Sycamore x 1	EM	12 1W	4	4	4	4	≤300	M	As G7	Fell for development	C2	3.6 41m²

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 <i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i>	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)	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	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	See Table 2
	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



Legend

Root Protection Area
Modified to Account for
Site Features



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

Tree Position Approximate
(not shown on original survey)

Client	Crabtree Group Ltd
Project	Land off Pont Adam Crescent, Ruabon, Wrexham
Title	Preliminary Tree Constraints Plan
Scale	1:500@A2
Date	March 2014
Revision	-
Drawn By	AM
Job Ref	14/01/AM/138
Drawing No	01

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

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Tree numbers 1-16 off
site with no access - stem
diameters approximate

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