Tree Constraints Appraisal

in Relation to Proposed Construction of Two Dwellings at

Land at London Place, New Mills, Derbyshire, SK22 4ER

Prepared by:

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TREE SURVEY SCHEDULE FOR ARBORICULTURAL CONSTRAINTS APPRAISAL			
Site:	Land at London Place, New Mills, Derbyshire, SK22 4ER	**Surveyor:**	Jennie Keighley MSc MArborA
Client:	Mr and Mrs Kelly	**Survey Date:**	22 May 2017
		Job Ref:	BTC1344

No.	Species	Height	Stem Diam.	Branch Spread		Branch & Canopy Clearances	Life Stage	PC	General Observations and Comments	Management Recommendations	ERC	Cat. Grade	RPA (m^2)	RPA Radius (m)
T1	Corkscrew Willow	4.5	70	N E S W	0.5 1 1 0.5	1.75-SW 1.75	Y	G	▪ Lower branches on eastern side are dead.	▪	40+	C1	2	0.84
T2	Wild Cherry	3.5	100	N E S W	2 2 2 2	1-NE 0.25	Y	G	▪ No visible defects.	▪	10+	C1	5	1.2
T3	Apple	12	1x370 1x320 (ts)	N E S W	6.5 7 6.5 6	2-N 1.25	PM	M	▪ Bifurcates at a height of 1m. ▪ Moderate twig and lower crown dieback indicates tree is starting to decline. ▪ Sounding with a nylon mallet indicates some minor decay around lower eastern leader.	▪	10+	C1	108	5.87
T4	Keaki	7	1x180 1x150 (ts)	N E S W	5 5.5 4 5	1.25-NE 2	SM	M	▪ Bifurcates at a height of 1m. ▪ Recent fire damage to south-eastern side of crown. ▪ Growing outside proposed development boundary, but crown overhangs site by approximately 4m with relatively low clearance.	▪	10+	C1	25	2.81
G1	2no. Leyland Cypress	≤ 4	≤ 130	N E S W	≤ 2 ≤ 2 ≤ 2 ≤ 2	0.25 ≥ 0	Y	M	▪ Very closely spaced pair growing close to boundary wall. ▪ Topped at a height of 4m.	▪	10+	C1	≤ 8	≤ 1.56
G2	Rhododendron, Azalea, Holly, Cotoneaster	≤ 8	≤ 8x80 (ms)#	N E S W	≤ 3 ≤ 3 ≤ 3 ≤ 3	0 ≥ 0	Y-M	M-G	▪ Very closely spaced overgrown shrub border. ▪ Predominantly Rhododendron.	▪	20+	C2	≤ 23	≤ 2.72

Headings and Abbreviations:

No. Allocated sequential reference number - Tree ('T'), Group ('G'), Woodland ('W') or Hedge ('H') reference number - refer to plan and to numbered tags where applicable
Species: Common name
Height: In metres, to nearest half metre – where possible approximately 80% are measured using an electronic clinometer and the remainder estimated against the measured trees. In the case of Groups and Woodlands the measurement listed is that of the highest tree
Stem Diam.: Stem diameter in millimetres, to nearest 10mm - measured and calculated as per Annex C of BS5837:2012. MS = multi-stemmed, TS = twin-stemmed
Branch Spread: Crown radius measured (or estimated where considered appropriate) from the four cardinal points (north, east, south and west) to give an accurate visual representation of the crown
Branch & Canopy Clearances: Existing height above ground level, in metres, of first significant branch and direction of growth (e.g. 2.5-N) and of canopy at lowest point – to inform on crown to height ratio, potential for shading, etc.
Life Stage: Estimated age class - Y = young, SM = semi-mature, EM = early-mature, M = mature, PM = post-mature
PC: Physiological Condition - a measure of the tree'(s)' overall vitality, i.e. D = Dead, MD = Moribund, P = Poor, M = Moderate, G = Good
General Observations and Comments: Comments relating to the tree'(s)' overall condition and any other pertinent factors including structural defects, current and potential direct structural damage, physiological decline, poor form, etc.
Management Recommendations: Either Preliminary or In Consideration of the Proposal - In the case of Arboricultural Constraints Surveys the recommended management works only take exiting site and tree circumstances and conditions into account and not proposed developments. Arboricultural Impact Assessment and Method Statement related Surveys take the proposed development into consideration with recommendations made accordingly. More than one option may be given if considered appropriate
ERC: Estimated Remaining Contribution - in years as per BS5837:2012 (i.e. <10, 10+, 20+, 40+)
Cat. Grade: Category Grading - tree retention value listed as U, A, B or C - in accordance with BS5837:2012 Table 1
RPA m^2: Root Protection Area in m^2 - calculated area around the tree that must be appropriately protected throughout the development process in order avoid root damage
RPA Radius (m): Root Protection Area Radius - in metres measured from the centre of the stem to the line of tree protection
 # (Estimated Dimensions): Where trees are located off-site, or are inaccessible for any other reason, and accurate measurements or other information cannot be taken then the information provided is estimated and is duly suffixed with a "#" symbol

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No.	Species	Height	Stem Diam.	Branch Spread	Branch & Canopy Clearances	Life Stage	PC	General Observations and Comments	Management Recommendations	ERC	Cat. Grade	RPA (m^2)	RPA Radius (m)
G3	10no. Ash, 1no. Oak	≤ 19	≤ 650#	N ≤ 10 E ≤ 10 S ≤ 10 W ≤ 10	2-S ≥ 6	SM-EM	M	▪ Located on neighbouring land and therefore not inspected in detail. ▪ Moderately spaced linear group growing on opposite side of macadam surfaced access road. ▪ Most of trees heavily crown lifted.	▪	20+	B2	≤ 191	≤ 7.8
G4	1no. Ash, 1no. Leyland Cypress	≤ 19	≤ 2x250 (ts)#	N ≤ 5 E ≤ 5 S ≤ 5 W ≤ 5	2.5-E ≥ 1.5	EM	G	▪ Located on neighbouring land and therefore not inspected in detail. ▪ Moderately spaced pair growing on opposite side of macadam surfaced access road.	▪	20+	B2	≤ 56	≤ 4.24
H1	Leyland Cypress	≤ 7	≤ 3x150 (ms)#	≤ 5 Wide	0.25 ≥ 0	Y-EM	M	▪ Largely unmanaged garden boundary hedge. ▪ Western section topped at a height of 6m.	▪	10+	C2	N/A	≤ 3.12

BS5837:2012 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 BS5837:2012 paragraph 4.5.7.*			Red
	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)	Green
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. Examples include the presence of remediable defects including unsympathetic past management and minor storm damage	Trees present in numbers, usually as groups or woodlands, so they form distinct landscape features which attract a higher collective rating than they might as individuals. But which are not, individually, essential components of formal or semi-formal arboricultural features. For example, trees of moderate quality within an avenue that includes better, A category specimens. Or trees which are internal to the site, therefore individually having little visual impact on the wider locality	Trees with clearly identifiable conservation or other cultural benefits	Blue
Category C Those trees 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	Grey
	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 150mm should be considered for relocation			

DISCLAIMER

Survey Limitations: Unless otherwise stated all trees are surveyed from ground level using non-invasive techniques. The disclosure of hidden crown and stem defects, in particular where they may be above a reachable height or where trees are ivy clad or in areas of ground vegetation, cannot therefore be expected. All obvious defects, however, are reported. Detailed tree safety appraisals are only carried out under specific written instructions. Comments upon evident tree safety relate to the condition of said tree at the time of the survey only.

Unless otherwise stated all trees should be re-inspected annually in order to appraise their on-going mechanical integrity and physiological condition. It should, however, be recognised that tree condition is subject to change, for example due to the effects of disease, decay, high winds, development works, etc. Changes in land use or site conditions (e.g. development that increases access frequency) and the occurrence of severe weather incidents are also significant considerations with regards tree structural integrity and trees should therefore be re-assessed in the context of such changes and/or incidents and inspected at intervals relative to identified and varying site conditions and associated risks.

Where trees are located wholly or partially on neighbouring private third-party land then said land is not accessed and our inspection is therefore restricted to what can reasonably be seen from within the site. Stem diameters of trees located on such land are estimated. Any subsequent comments and judgments made in respect of such trees are based on these restrictions and are our preliminary opinion only. Recommendations for works to neighbouring third-party trees are only made where a potentially unacceptable risk to persons and/or property has been identified during our survey. Where significant structural defects of third-party trees are identified and associated management works are considered essential to negate any risk of harm and/or damage then we will first attempt to inform the site occupier of the issues and, if not possible, then inform the relevant Council. Where a more detailed assessment is considered necessary then appropriate recommendations are set out in the Tree Survey Schedule.

Where tree stem locations are not included on the plan(s) provided then they are plotted at the time of the survey using, where appropriate and/or practicable, a combination of measurement triangulation and GPS co-ordination. Where this is not possible then locations are estimated. Restrictions in these respects are detailed in the report.

The tree survey and any report information provided is intended as a guide to identify key tree related constraints to site development only. As such, the potential influence of trees upon existing or proposed buildings or other structures resulting from the effects of their roots abstracting water from shrinkable load-bearing soils is not considered herein. The tree survey information in its current form should not therefore be considered sufficient to determine appropriate foundation depths for new buildings. Accordingly, an updated survey, with reference to the current NHBC Standards Chapter 4.2 - Building Near Trees, must therefore be prepared for the specific purpose of informing suitable foundation depths subsequent to planning approval being granted. The advice of a structural engineer must also be sought with regard to appropriate foundation depths for new buildings.

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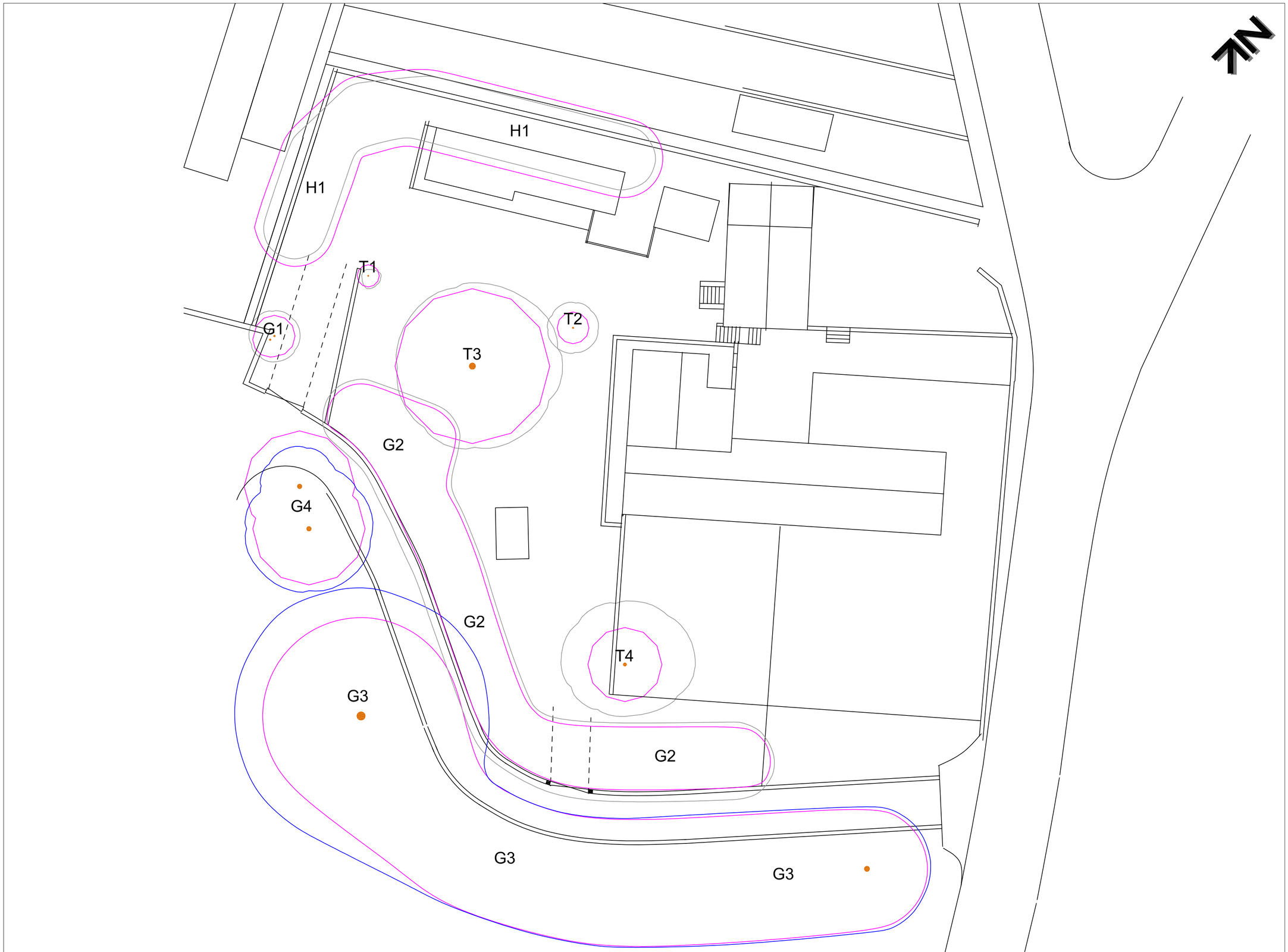

Important: The original version of this plan was produced in colour, which is essential to the plan's interpretation and usability. As such, a monochrome copy should not be relied upon

KEY

T = Individual Tree
G = Group of Trees
H = Hedge

Please refer to associated Tree Survey Schedule for specific details in respect of items below:

Tree Categorisations:

Those to be Considered for Retention:

Category 'A' Tree/Group/Hedge
Those of a High Quality with an Estimated Remaining Life Expectancy of at Least 40 Years

Category 'B' Tree/Group/Hedge
Those of a Moderate Quality with an Estimated Remaining Life Expectancy of at Least 20 Years

Category 'C' Tree/Group/Hedge
Those of Low Quality with an Estimated Remaining Life Expectancy of at Least 10 Years, or Young Trees

Those Considered Unsuitable for Retention:

Category 'U' Tree/Group/Hedge
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

Note: The locations of trees were not included on the site plan provided and their locations were subsequently plotted by the arboricultural surveyor at the time of the survey using GPS siting and measurement from site features, where possible. As such, the plotted locations of the trees cannot therefore be considered to be wholly accurate

Root Protection Areas (RPAs):

RPAs
Area(s) of Ground Around Trees that Should be Protected Throughout Development Works with Protective Fencing to form a Construction Exclusion Zone

Project:
LAND AT LONDON PLACE
NEW MILLS
DERBYSHIRE
SK22 4ER

Client:
MR AND MRS KELLY

Title:
TREE CONSTRAINTS PLAN
In Relation to Proposed Construction of Two Dwellings

Scale:	1:200@A2
Date:	May 2017
Drawn by:	JK
Checked by:	RD

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