TREE CONSULTANTS

ARBORICULTURAL REPORT

to BS 5837:2012 at:

Barnsley Road / Saltersbrook, Goldthorpe, Barnsley, South Yorkshire

For:
Yorkshire Housing,
Regent House,
161 Briggate,
Leeds,
LS1 6LY

May 2014

Institute of Chartered Foresters
Registered Consultant

Office: 0114 272 1124 Mobile: 0776 631 0880 Email: info@awatrees.com Website: awatrees.com
Union Forge, 27 Mowbray Street, Sheffield, S3 8EN. AWA Tree Consultants Limited. Company No. 8520123. Registered in England & Wales.

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1. Introduction

1.1 Instructions and Brief

1.1.1 I am instructed by Yorkshire Housing to visit the site and prepare my findings in a report.

1.1.2 The report is required in accordance with *BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations,* to provide detailed, independent, arboricultural advice on the trees present, in the context of potential development.

1.2 Survey Details

1.2.1 The survey took place during May 2014 by Adam Winson, Chartered Arboriculturist, MSc, BSc (Hons) MICFor, AIEEM (the author's qualifications and experience are included within **Appendix 1**).

1.2.2 The trees were surveyed visually from the ground using "Visual Tree Assessment" techniques and in accordance with the guiding principles of British Standard 5837:2012 (explanatory details regarding the survey methodology are included within **Appendix 2**).

1.2.3 A full explanation of the tree data can be found at **Appendix 3**. Full details of all the trees surveyed are found in **Appendix 4**. For tree locations please refer to the Tree Constraints Plan at **Appendix 5**.

2. The Site

2.1 Location

2.1.1 The site is located in Goldthorpe, a village within the Metropolitan Borough of Barnsley, in South Yorkshire.

2.1.2 The tree survey was limited to the area within the red line, shown in the (2008) image below:



2.2 Site Description

2.2.1 The site consists of an unused building with surrounding grounds.

2.2.2 Surrounding the site is a mix of rural and residential areas with a reasonable distribution of trees.

3. The Trees

3.1 Legal

3.1.1 Due to the large potential penalties for illegally carrying out work to protected trees, before authorising any tree works a check should be made with the Local Planning Authority to see if the trees are covered by a Tree Preservation Order or if they are within a Conservation Area. If either applies, then statutory permission is required before any works can take place.

3.1.2 When appointing a tree surgeon, only properly qualified and experienced companies should used, who have adequate Public Liability and Employer's Liability Insurance. All tree work should be carried out according to British Standard 3998: 2010 *Tree Work - Recommendations*.

3.2 Summary of Results

3.2.1 The tree survey revealed 16 items of vegetation comprised of 13 individual trees and 3 groups of trees.

3.2.2 Of the surveyed vegetation, 5 trees or tree groups are higher value retention category 'B' and the remaining 11 trees or tree groups are lower value retention category 'C' (explanatory details regarding the retention categories are included within Appendix 3).

3.2.3 The tree cover within the site is generally comprised of relatively recently established amenity plantings, located along the northern and eastern boundary areas. Also detailed within the survey are occasional trees situated beyond the site boundary in adjacent land, but potentially close enough to be impacted by any new development.

3.2.4 Limited access around some trees situated in adjacent land prevented a full detailed inspection, and as such the measurements were estimated and the condition values are indicative only.

3.3 Outline Arboricultural Impacts

3.3.1 The sites higher value trees are located along the eastern boundary area. The central and western areas of the site are largely free of significant arboricultural implications for any new development.

3.3.2 If required by the development proposals, occasional lower value, retention category C trees and groups could be removed, and replacement planting would largely mitigate their losses.

3.3.3 The higher value category 'B' trees and groups should be retained and incorporated, where possible, into any new development design.

3.3.4 A new development on the site offers the opportunity to better manage the existing tree cover and to plant new trees as part of a longer term landscaping scheme and so has the potential to improve the sites long term tree cover.

3.4 Protection of the Retained Trees

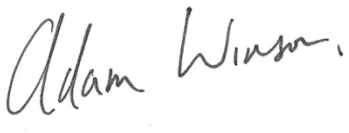
3.4.1 The retained trees will require protection by fencing in accordance with BS 5837: 2012, during the development phase. The protective fencing should protect the Root Protection Area (RPA) of the trees as highlighted on the plan at Appendix 5.

3.4.2 If required by the Local Planning Authority, an associated Arboricultural Method Statement, detailing protective fencing specifications can be provided.

4. Signature

I trust this report provides all the required information.

Signed



.....

Adam Winson, *Chartered Arboriculturist, MSc, BSc (Hons), MICFor, AIEEM.*

21st May 2014

AWA Tree Consultants Limited
Union Forge
27 Mowbray Street
Sheffield
S3 8EN

www.awatrees.com

Appendices

Appendix 1: Authors Qualifications and Experience
Appendix 2: Survey Methodology and Limitations
Appendix 3: Explanation of Tree Descriptions
Appendix 4: Tree Descriptions and Recommendations
Appendix 5: Tree Constraints Plan

Appendix 1: Authors Qualifications & Experience

Mr Adam Winson *Chartered Arboriculturist, MSc, BSc (Hons), ND, MICFor, AIEEM.*

Experience
I have worked within the tree care profession for 16 years. I am a Chartered Arboriculturist and a Registered Consultant with the Institute of Chartered Foresters. My work ranges from individual expert tree inspections to managing trees on major multimillion pound housing and park developments and highway and infrastructure projects. My work often involves trees with Preservation Orders, insurance claims, subsidence claims and litigation. In 2010 I obtained an MSc in Arboriculture and Urban Forestry (with distinction), also gaining the top student award, and have had articles published in industry magazines and have original research published by the UK Forestry Commission.

Membership of Professional Bodies
Professional Member and Registered Consultant of the Institute of Chartered Foresters
Associate of the Institute of Ecology and Environmental Management

Education and Qualifications
MSc Arboriculture and Urban Forestry (Distinction) University of Central Lancashire - Myerscough College. 2006 -2009
BSc (Hons) Environmental Conservation 2:1. Sheffield Hallam University. 2002 2005
National Diploma in Arboriculture University of Lincoln/ Riseholme.1996-1998

Previous Experience
Consulting Arboriculturist at JCA Ltd. Halifax, Yorkshire 2005 to 2012
Freelance Arborist for various companies. Sheffield, South Yorkshire 2002 - 2005
Arborist for AAA Arbor /Sydney City Council Australia 2001- 2002
Arborist for The Tree Surgeon, Brisbane, Australia 2000- 2001
Groundsman/Climber at Lindsey Tree Services, Grimsby, Lincolnshire 1998 -2000
Groundsman/Climber at Freelance Baumpflege, Frankfurt, Germany 1998
Freelance Groundsman/Climber for various companies, Lincoln Area 1996-1998

Training, Awards & Qualifications
MSc Top Student Award University of Central Lancashire 2010
Bats and Bat Surveys- a foundation course for ecological consultants. BCT 2007
Arboriculture & Bats: A Guide for Practitioners BCT and AA 2007
CPRE: Prize for best BSc dissertation on the theme of land management 2006

Appendix 2: Survey Methodology and Limitations of Report

The survey was undertaken in accordance with British Standard 5837 (2012) *Trees in relation to design, demolition and construction –Recommendations.* The trees were assessed objectively and without reference to any proposed site layout. The trees were surveyed from the ground using 'Visual Tree Assessment' (VTA) methodology. VTA is appropriate and is endorsed by industry guidance. It is used by arboriculturists to evaluate the structural integrity of a tree, relying on observation of trees biomechanical and physiological features. Measurements are obtained using a diameter tape, clinometer, distometer and loggers tape. Where this is not practical measurements are estimated. Tree groups have been identified in instances as defined in BS 5837 (2012). Shrubs and insignificant trees may have been omitted from the survey.

This report represents a BS5837 tree survey and should not accepted as a detailed tree safety inspection report; however, tree related hazards are recorded and commented upon where observed, yet no guarantee can be given as to the absolute safety or otherwise of any individual tree. All recommended tree work must be to BS 3998: 2010 - '*Tree Work: Recommendations'*.

The findings and recommendations contained within this report are valid for a period of twelve months from the date of survey. The author shall not be responsible for events which happen after this time due to factors which were not apparent at the time, and the acceptance of this report constitutes an agreement with these guidelines and terms.

Appendix 3: Explanation of Tree Descriptions

HEIGHT of the tree is measured from the stem base in metres. Where the ground has a significant slope the higher ground is selected.

CROWN HEIGHT is an indication of the average height at which the crown begins and includes information of the first significant branch and direction of growth.

STEM DIAMETER is measured at 1.5 metres above (higher) ground level. Where the tree is multi-stemmed at this point; the diameter is measured close to ground level or else a combined stem diameter is calculated.

CROWN SPREAD is measured from the centre of the stem base to the tips of the branches in all four cardinal points.

AGE CLASS of the tree is described as young, semi-mature, early-mature, mature, or over-mature.

PHYSIOLOGICAL CONDITION is classed as good, fair, poor, or dead. This is an indication of the health of the tree and takes into account vigour, presence of disease and dieback.

STRUCTURAL CONDITION is classed as good, fair or poor. This is an indication of the structural integrity of the tree and takes into account significant wounds, decay and quality of branch junctions.

LIFE EXPECTANCY is classed as; less than 10 years, 10-20 years, 20-40 years, or more than 40 years. This is an indication of the number of years before removal of the tree is likely to be required.

Retention Categories

A (marked green on Appendix 5) = retention most desirable. These trees are of very high quality and value with a good life expectancy.

B (marked in blue on Appendix 5) = retention desirable. These trees are of good quality and value with a significant life expectancy.

C (marked in grey on Appendix 5) = trees which could be retained. These trees are of low or average quality and value, and are in adequate condition to remain until new planting could be established.

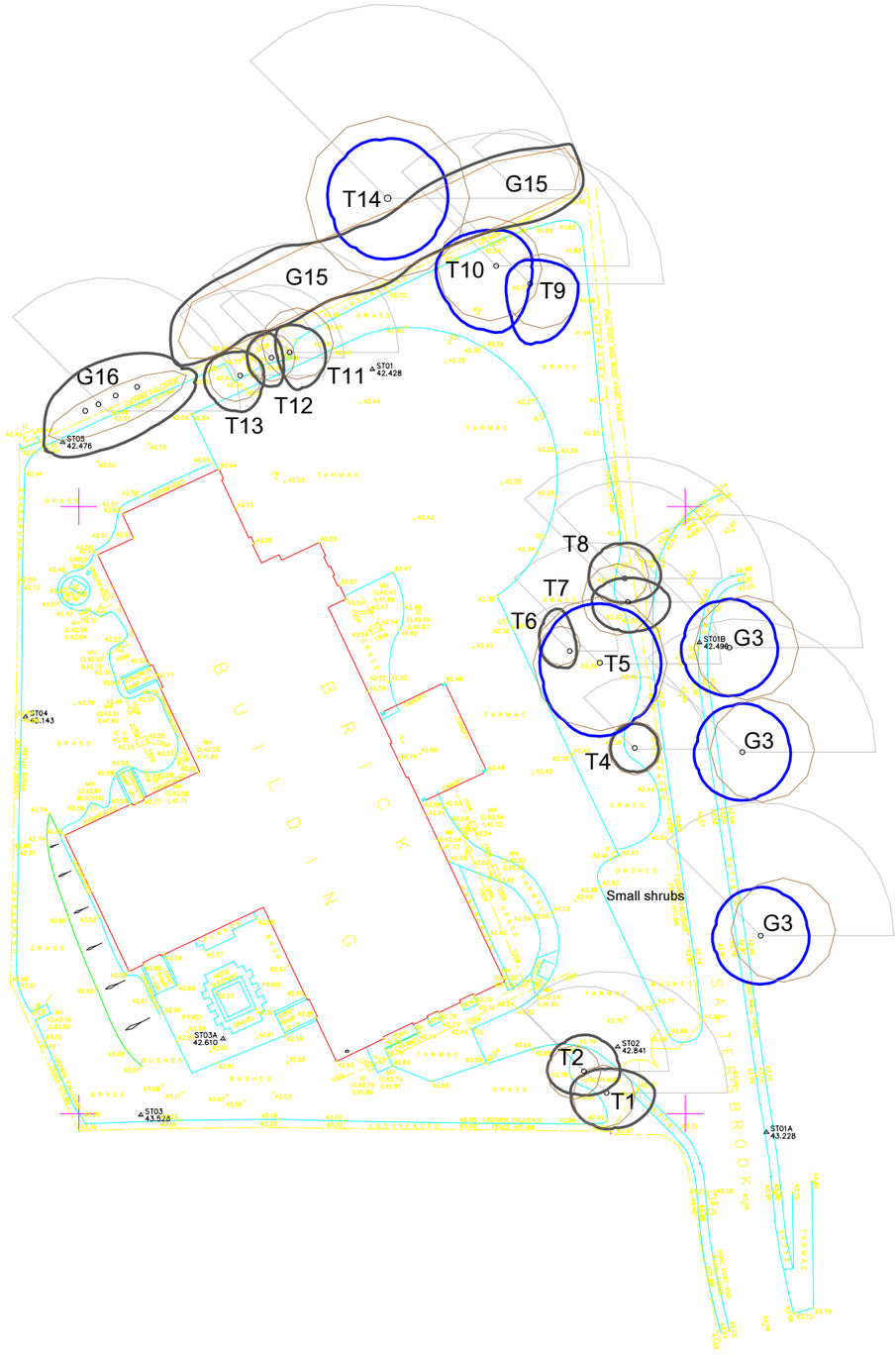
U (marked in red on Appendix 5) = trees for removal. These trees are in such a condition that any existing value would be lost within 10 years.

Appendix 4: Tree Descriptions and Recommendations

	Tree Species		Measurments					Crown (m)						Tree Condition							Value		Management	
Tree ID	*Common Name*	*Latin Name*	*Maturity*	*Height (m)*	*Stems*	*Stem Dia (mm)*	*Estimated*	*First branch*	*Ave Height*	*N*	*E*	*S*	*W*	*Roots*	*Stem*	*Crown*	*Comments*	*Physiology*	*Structural*	*Life Expectancy*	*Amenity*	*Category*	*Works*	*Priority (Mths)*
T1	Birch	*Betula pendula*	Semi-mature	10	1	210	No	3n	2	2	4	3	3	No visual defects	Single stemmed; Slight lean; Old pruning wounds	Normal; Minor dieback	Slight kink in lower stem.	Fair	Good	>40 yrs	Mod	**C**	No action	NA
T2	Alder	*Alnus glutinosa*	Young	7	1	180	No	2w	2	3	3	2	3	No visual defects; Soil compaction	Single stemmed; Vertical	Normal	Reasonable prospects	Good	Good	>40 yrs	Low	**C**	No action	NA
G3	Cherry	*Prunus 'Kanzan'*	Early-mature	11	1	350	Yes	2w	2	4	4	4	4	No visual defects	Single stemmed; Vertical	Normal	Line of trees situated in adjacent land	Good	Good	>40 yrs	Mod	**B**	No action	NA
T4	Alder	*Alnus glutinosa*	Semi-mature	6	1	180	No	2s	1	2	2	2	2	No visual defects	Single stemmed; Slight lean; Bark damage	Normal; Small / sparse		Fair	Good	20 to 40 yrs	Low	**C**	No action	NA
T5	Cherry	*Prunus avium*	Early-mature	10	1	450	No	2s	1	5	5	6	5	No visual defects; Exposed roots	Multiple stemmed at 2m; Vertical; Tight union; Partially included bark; Minor	Normal	Reasonable prospects	Good	Fair	>40 yrs	Mod	**B**	No action	NA
T6	Birch	*Betula pendula*	Semi-mature	4	1	130	No	1n	1	3	1	0	2	No visual defects	Single stemmed; Slight lean	Unbalanced	Suppressed form	Fair	Fair	10 to 20 yrs	Low	**C**	No action	NA
T7	Rowan	*Sorbus aucuparia*	Semi-mature	12	1	240	No	2w	2	2	4	3	3	No visual defects	Twin stemmed at 2m; Vertical	Normal; Overhanging adjacent land		Fair	Fair	20 to 40 yrs	Mod	**C**	No action	NA
T8	Rowan	*Sorbus aucuparia*	Semi-mature	8	1	200	No	2n	2	3	3	2	3	No visual defects	Single stemmed; Twin stemmed at 2m; Vertical	Normal; Slightly unbalanced; Overhanging adjacent land		Fair	Fair	20 to 40 yrs	Low	**C**	No action	NA
T9	Oak	*Quercus sp*	Semi-mature	11	1	250	No	2e	2.5	2	4	5	2	No visual defects	Multiple stemmed at 2m; Vertical	Normal; Slightly unbalanced	Good potential	Fair	Good	>40 yrs	Mod	**B**	No action	NA
T10	Oak	*Quercus sp*	Semi-mature	11	1	350	No	2w	2	3	3	6	5	No visual defects	Single stemmed; Vertical	Normal	Good potential	Good	Good	>40 yrs	Mod	**B**	No action	NA

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	Tree Species		Measurments					Crown (m)						Tree Condition							Value		Management	
Tree ID	*Common Name*	*Latin Name*	*Maturity*	*Height (m)*	*Stems*	*Stem Dia (mm)*	*Estimated*	*First branch*	*Ave Height*	*N*	*E*	*S*	*W*	*Roots*	*Stem*	*Crown*	*Comments*	*Physiology*	*Structural*	*Life Expectancy*	*Amenity*	*Category*	*Works*	*Priority (Mths)*
T11	Rowan	*Sorbus aucuparia*	Semi-mature	12	1	240	No	2w	2	2	3	3	2	No visual defects	Twin stemmed at 2m; Vertical	Normal; Overhanging adjacent land		Fair	Fair	20 to 40 yrs	Mod	**C**	No action	NA
T12	Rowan	*Sorbus aucuparia*	Semi-mature	8	1	200	No	2n	2	2	2	2	2	No visual defects	Single stemmed; Twin stemmed at 2m; Vertical	Normal; Slightly unbalanced; Overhanging adjacent land		Fair	Fair	20 to 40 yrs	Low	**C**	No action	NA
T13	Rowan	*Sorbus aucuparia*	Semi-mature	7	1	180	No	2w	2	2	2	3	3	No visual defects	Single stemmed; Vertical	Normal		Fair	Fair	20 to 40 yrs	Low	**C**	No action	NA
T14	Poplar	*Populus canescens*	Early-mature	16	1	550	Yes	3s	5	5	5	5	5	No visual defects	Single stemmed	Normal	Situated beyond boundary limited access around stem base	Fair	Fair	20 to 40 yrs	Mod	**B**	No action	NA
G15	Poplar	*Populus canescens*	Semi-mature	5	1	150	Yes	1n	1	2	2	2	2	No visual defects	Single stemmed; Multiple stemmed	Normal	Dense group of natural regeneration situated beyond boundary	Good	Fair	>40 yrs	Mod	**C**	No action	NA
G16	Poplar	*Populus tremula*	Semi-mature	11	1	130	Yes	2s	2	2	2	2	2	No visual defects	Single stemmed; Multiple stemmed	Normal	Dense group of natural regeneration situated beyond boundary limited access around stem base	Good	Fair	>40 yrs	Mod	**C**	No action	NA



Appendix 5: Tree Constraints Plan

Barnsley Road / Saltersbrook
Ref: AWA1185

BRITISH STANDARD 5837:2012
RETENTION CATEGORIES
Definitions of these catagories can be found in Appendix 2 of the report.

SCALE :1:500 PAPER: A3

	CATEGORY A: RETENTION MOST DESIRABLE
	CATEGORY B: RETENTION DESIRABLE
	CATEGORY C: COULD BE RETAINED
	CATEGORY U: FOR REMOVAL
	RPA: ROOT PROTECTION AREA
	TREE STEM
	LIKELY SHADOW CAST BY TREE