ARBORICULTURAL REPORT
to BS 5837:2012
at
Land at Blackmoorfoot Road
Crosland Moor
Huddersfield
West Yorkshire
HD4 5NU

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1. Introduction

1.1 Purpose of the Report

1.1.1 JCA Limited has been instructed by **KPP Architects Ltd** to survey the trees at **Blackmoorfoot Road**, **Crosland Moor**, **Huddersfield**, and prepare the findings in a report.

1.1.2 This report provides detailed, independent, arboricultural advice on the trees in the context of potential development, conducted in accordance with the guidelines contained within BS5837: 2012 *'Trees in relation to design, demolition and construction – Recommendations' (BS5837:2012).*

1.1.3 This report will categorise the trees in accordance with the British Standard, which will help guide the design of potential development in terms of constraints and opportunities related to trees and provide details of which trees should be retained and which could be removed.

1.1.4 Once a proposed development scheme has been formalised, the full implications for trees should be assessed within an Arboricultural Impact Assessment (AIA).

1.1.5 Where necessary, recommendations will be given with a view to the long-term management of sustainable tree cover and to uphold the interests of health and safety.

1.2 Terms of Reference

1.2.1 For this purpose, a topographical survey (**Ref: 8831**) has been supplied, which forms the basis for the Tree Constraints Plan at **Appendix 5**. The topographical survey, along with all other documents supplied to JCA, is assumed to be correct. No checking of such documents will be undertaken and JCA cannot be held responsible for incorrect data supplied by other parties.

1.3 Tree Survey Details and Methodology

1.3.1 The survey took place during March 2024 and was conducted by **Andrew Bussey** *LANTRA Accredited PTI.*

1.3.2 During this survey, all trees were inspected from ground level. Further investigations, such as a climbed inspection or a decay detection survey, have not been.

1.3.3 Only those trees within the site boundary with a stem diameter above 75mm have been included. Where applicable, trees outside the site boundary, but close enough to be affected by a proposed development, are also included.

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1.3.4 Tree data was collected in accordance with **Section 4.4** and **Section 4.5** of BS5837: 2012. Full details of all trees surveyed are recorded in the tables at **Appendix 1** which can be cross referenced with the Tree Constraints Plan at **Appendix 5**. A full explanation of the tables can be found at **Appendix 2**.

1.3.5 Measurements were obtained using clinometers, specialist tapes or electronic distometers. Where this was not possible, due to restricted access or other mitigating circumstances, measurements were estimated to the best ability of the surveyor. Where measurements have been estimated, these are clearly highlighted at **Appendix 1** with a '#' symbol.

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2. Status of the Trees

2.1 A check was made with ***Kirklees Metropolitan Borough Council*** in March 2024 to determine whether any of the trees surveyed as part of this report are subject to any statutory controls.

2.2 It is assumed from the information available that **T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T14, T15, T16, G17, G18, G24, G25, T26, G27** and **G28** within this report are subject to Woodland Tree Preservation Order (**TPO Ref: 04/21/w1**).

2.3 No work must be undertaken to those trees subject to a Tree Preservation Order until an approved Works to Protected Trees application has been granted, or until planning permission has been granted which includes accurately specified tree works.

2.4 Prior to any works being undertaken to trees, those instructing and proposing to carry out the work should satisfy themselves that all appropriate consents are in place to prevent potential breach of legislation.

2.5 The presence of a Tree Preservation Order (TPO) represents the Local Authority's desire to retain trees within the landscape. As such, trees covered by a TPO are generally more likely to require retention within a proposed scheme and this should be taken into account during the design process. In some cases, the removal of TPO trees may be agreed upon, providing the benefits of the proposed development are deemed greater than the material loss of the trees. The value of existing vegetation is just one factor in the decision-making process; all benefits of the proposed development will be taken into consideration in the usual manner.

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3. Tree Survey Details

3.1 Tree Retention Categories

3.1.1 Below is a summary of the surveyed vegetation with retention categories identified in accordance with BS5837: 2012. For a full explanation of the retention categories, please refer to **Appendix 2** (**Section A2.3**).

Tree Retention Categories			
Retention Category	**Trees**	**Groups**	**Totals**
A	0	0	**0**
B	11	8	**19**
C	13	7	**20**
U	4	0	**4**
Totals	**28**	**15**	**43**

3.1.2 As a general rule, those trees listed as retention category 'A' or retention category 'B' are the most valuable items of vegetation and as such the removal of these is likely to be met with resistance by the Local Planning Authority (LPA).

3.1.3 Those items listed as retention category 'C' are of lesser value and the removal of these is generally less likely to be met with resistance by the LPA.

3.1.4 Items listed as retention category 'U' comprise of dead trees or trees of limited safe life expectancy and are often recommended for removal, irrespective of any proposals.

3.1.5 The above information should guide the design in terms of which trees could be removed and which trees should be retained. However, due to changing attitudes with regards to environmental awareness, it should be noted that all trees are considered to have value. As such, it is advised that as many trees as possible be retained, regardless of their BS5837: 2012 retention category status.

3.1.6 The retention of trees is further advised to avoid the need to plant replacement specimens, which are usually required to be planted on a 2:1 or 3:1 ratio, and due to their ecological value, which will be assessed as linear habitat units in accordance with the Statutory Biodiversity Metric.

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3.2 Recommended Work for Arboricultural Reasons

3.2.1 Where necessary, recommendations have been prescribed for reasons of public safety, to benefit the trees and/or for general maintenance purposes. Such recommendations have been made for Arboricultural reasons and should be undertaken irrespective of development.

3.2.2 Full details of all recommended works are detailed in the 'Recommendations Column' of the Tree Data Tables at **Appendix 1**.

3.2.3 For an explanation of the priority ratings, see **Appendix 2 (A2.2.5)**.

3.2.4 All trees which are to be retained within the proposed development should be inspected on a regular basis in the interests of risk management. They should have a biennial re-inspection regime, ideally with each inspection being undertaken during a different season, in order to observe any defects, pests and diseases that are only evident at certain times of year.

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4. Tree Related Design Advice

4.1 The location of each tree is plotted on the Tree Constraints Plan at **Appendix 5**. The canopy spread of each surveyed item is colour coded as follows; Retention Category A: **Green**, Retention Category B: **Blue**, Retention Category C: **Grey**, Retention Category U: **Red**. The associated Root Protection Area (RPA) is also shown in **Gold**.

4.2 In order to enable the survival of trees shown to be retained within any proposals, encroachment into the canopy of the tree and/or its RPA should be avoided wherever possible. This relates to not just the location of new buildings, but also to the location of new areas of hard standing, proposed utility routes and any ground level changes (both excavations and soil piling). Where this is not possible, specialist construction methods and materials will need to be used.

4.3 Where information is available, the water demand of each tree is provided at **Appendix 1**, in accordance with current NHBC Standards. The water demand of trees can affect adjacent structures, and this is therefore included to inform foundation design, depth and the proximity of proposed structures to trees.

4.4 Retained trees will require adequate protective measures during development. Such measures typically entail temporary protective fencing, installed to the full extent of the RPA. Where this is not entirely possible, ground protection may also comprise part of the protective measures. This includes a compaction reducing construction detail which enables a degree of construction traffic over/within the RPA.

4.5 As the RPAs of the trees will require fencing off as a protection measure, this should be brought into consideration when planning such things as access routes and material storage during development. It is accepted that in some cases it is not entirely possible to completely avoid the RPA or canopy lines within a new development. The consulting arboriculturalist should therefore be made aware of any such incursions to make comment and, where possible, advise on mitigation actions. Such details should be contained within an Arboricultural Impact Assessment (AIA).

4.6 No material storage is permitted within the RPA of retained trees unless confirmed to be acceptable by the consulting arboriculturalist. The exact details and location of protective measures should be included within an Arboricultural Method Statement (AMS).

4.7 The position of the site compound is a major consideration. It is recommended that this, which typically includes the site office, facilities, toilets, storage of materials and parking, is located away from trees and outside the RPA.

4.8 Once the development proposals are finalised, the implications of this design on the existing trees will be assessed within an Arboricultural Implications Assessment (AIA).

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5. Summary

5.1 The trees at **Blackmoorfoot Road**, **Crosland Moor**, **Huddersfield »** have been surveyed in accordance with BS5837: 2012 in order to provide independent advice relating to the constraints posed by trees to the potential development of the site.

5.2 It is assumed from the information available that **T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T14, T15, T16, G17, G18, G24, G25, T26, G27** and **G28** within this report are subject to Woodland Tree Preservation Order (**TPO Ref: 04/21/w1**).

5.3 Recommendations have been prescribed for general maintenance purposes. Such recommendations have been made for arboricultural reasons and should be undertaken irrespective of development.

5.4 General tree related advice to assist the design proposals has been provided in **Section 4**, which should be used in conjunction with the Tree Constraints Plan at **Appendix 5**.

5.5 Upon provision of specific proposals, site-specific advice should be given with regards to the impact on trees. In accordance with **Section 5.4** of **BS 5837: 2012**, the next stage should be the preparation of an **Arboricultural Impact Assessment (AIA)**, which will illustrate and discuss the impact of the proposals on the trees.

5.6 The data gained during the survey provides an indication of the health of the trees. However, it does not enable a comprehensive assessment of their condition over time. Trees are living organisms which are affected by many factors including weather conditions, diseases/disorders, light levels and human activities. Due to this, this report is only valid for a period of 1 year from the date of issuing. Should an update or revision of this report be required outside of this time period, JCA may require a further site visit to ensure that the condition of the trees has not significantly changed. It is advised that the trees are inspected regularly, in the interests of risk management.

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Appendices

Tree Ref.	Age Common Name *Botanical Name*	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations Priority	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
T 1	Early-mature Sycamore *Acer pseudoplatanus*	13	2.5	2.5 n/a	36	2 4.5 4.5 5	Single-stemmed and vertical with an unbalanced crown. No evidence of significant pruning. No major visible defects.	No action required. n/a	GOOD	GOOD	MOD	MOD	40+	B 1
T 2	Early-mature Sycamore *Acer pseudoplatanus*	13	4	4 n/a	30 x 2	1 5 6 2	Twin-stemmed at 0.5m with an unbalanced crown. This tree is 50% dead.	Remove Low	POOR	POOR	LOW	MOD	<10	U
T 3	Early-mature Sycamore *Acer pseudoplatanus*	14	3	3.5 n/a	44	4 3.5 6 2.5	Single-stemmed and vertical with a slightly unbalanced crown. No evidence of significant pruning. No major visible defects.	No action required. n/a	GOOD	GOOD	MOD	MOD	40+	B 1
T 4	Early-mature Sycamore *Acer pseudoplatanus*	13	3.5	3.5 n/a	48, 45	6 6.5 6.5 4.5	Twin-stemmed at 0.5m with a balanced crown. Occasional pruning wounds, some with minor decay. A dirt pocket is present at the stem junction.	Monitor biennially. Low	GOOD	GOOD	MOD	MOD	40+	B 1
T 5	Early-mature Rowan *Sorbus aucuparia*	4.5	2	1.5 W	16	1.8 2.8 2.8 2	Single-stemmed and vertical with a slightly unbalanced crown and a poor form. Occasional pruning wounds.	No action required. n/a	GOOD	FAIR	LOW	MOD	20+	C 1
T 6	Early-mature Rowan *Sorbus aucuparia*	5	2	2 n/a	18	2.5 1 3 2	Single-stemmed and vertical with an unbalanced crown. Occasional pruning wounds. A decay cavity is present at 1.5m.	Monitor biennially. Low	GOOD	FAIR	LOW	MOD	10+	C 1
T 7	Early-mature Common Ash *Fraxinus excelsior*	12	2	2 N	26	4 4 5 2	Twin-stemmed at 2.5m with an unbalanced crown and a poor form. Decay to the stem.	Monitor biennially. Low	GOOD	FAIR	LOW	MOD	<10	C 1
T 8	Early-mature Silver Birch *Betula pendula*	10	1	2.5 n/a	29	2.5 1 3.5 3.5	Single-stemmed and vertical with an unbalanced crown. No evidence of significant pruning. No major visible defects.	No action required. n/a	GOOD	GOOD	MOD	LOW	40+	B 1
T 9	Early-mature Pine *Pinus sp.*	13	2	1.8 n/a	47	4 4 3.5 4	Single-stemmed and vertical with a balanced crown. Occasional pruning wounds. No major visible defects.	No action required. n/a	GOOD	GOOD	MOD	MOD	40+	B 1
T 10	Early-mature Rowan *Sorbus aucuparia*	5	1	1 n/a	10, 8	1 2.5 2 1	Twin-stemmed at ground level with an unbalanced crown. A dead and part collapsed tree.	Remove to ground level. Low	DEAD	DEAD	DEAD	N/A	Dead	U

Tree Ref.	Age Common Name *Botanical Name*	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations Priority	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
T 11	Early-mature Hawthorn *Crataegus monogyna*	4	1	1.5 n/a	14	2 2.3 2.3 1.5	Twin-stemmed at 1.5m with a balanced crown. Occasional pruning wounds. No major visible defects.	No action required. n/a	GOOD	GOOD	LOW	HIGH	40+	C 1
T 12	Early-mature Sycamore *Acer pseudoplatanus*	12	4	3 n/a	38 x 3 Avg.	6 6 6 6	Multi-stemmed at ground level with a balanced crown. No evidence of significant pruning. Possible included bark present at the stem junction.	Monitor biennially. Low	GOOD	FAIR	MOD	MOD	20+	B 1
G 13	Early-mature Mixed species *Details in observations*	To 14	0+	0+ n/a	To 60#	See plan	Situated on adjacent land. Consisting of Goat Willow and Sycamore of a reasonable form.	No action required. n/a	GOOD	GOOD	LOW	MOD TO HIGH	40+	C 2
T 14	Early-mature Sycamore *Acer pseudoplatanus*	13	2	3 n/a	33 x 4 Avg.	6 5.5 6 5	Multi-stemmed at ground level with a balanced crown. No evidence of significant pruning. No major visible defects.	No action required. n/a	GOOD	GOOD	MOD	MOD	40+	B 1
T 15	Early-mature Sycamore *Acer pseudoplatanus*	14	3	2.5 S	38 x 2	4.5 4.5 5 5#	Twin-stemmed at 1m with a balanced crown. Occasional pruning wounds, some leaving stubs. No major visible defects.	No action required. n/a	GOOD	GOOD	MOD	MOD	40+	B 1
T 16	Early-mature Rowan *Sorbus aucuparia*	7	1	1 n/a	29	1.5 1.5 2 3	Multi-stemmed at 1.5m with an unbalanced crown. 50% dead.	Remove to ground level. Low	POOR	POOR		MOD	<10	U
G 17	Semi to early-mature Mixed species *Details in observations*	To 13	0+	0+ n/a	To 43	See plan	A linear group of Rowan, Whitebeam, Common Ash, Pine, Hawthorn, Sycamore and Downy Birch of a good form. Minor wounds noted. No major visible defects.	No action required. n/a	GOOD	GOOD	MOD	LOW TO HIGH	40+	1 B 2
G 18	Early-mature Sycamore *Acer pseudoplatanus*	To 13	0+	0+ n/a	To 28#	See plan	Trees of a good form. Not fully inspected due to dense vegetation.	No action required. n/a	GOOD	GOOD	MOD	LOW TO HIGH	40+	1 B 2
G 19	Semi to early-mature Mixed species *Details in observations*	To 13	0+	0+ n/a	To 60#	See plan	A group of Goat Willow, Rowan, Sycamore and Downy Birch of a good form. No major visible defects. The Cherry Laurel understory was not surveyed as it was not shown on the topographical plan provided.	No action required. n/a	GOOD	GOOD	MOD	LOW TO HIGH	40+	1 B 2
T 20	Early-mature Leyland Cypress *X Cupressocyparis leylandii*	12	0	0.5 n/a	58	3.5 3.5 3.5 3.5	Multi-stemmed at 1.5m with a balanced crown. Occasional pruning wounds. Decay to the buttress and possible root severance near the base.	Monitor biennially. Low	GOOD	FAIR	LOW	HIGH	20+	C 1

Tree Ref.	Age Common Name *Botanical Name*	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations Priority	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
T 21	Early-mature Leyland Cypress *X Cupressocyparis leylandii*	12	0.5	0.5 n/a	32	1 2.5 3 4	Twin-stemmed at 1.5m with an unbalanced crown. Root damage noted near the base.	Monitor biennially. Low	GOOD	FAIR	LOW	HIGH	20+	C 1
G 22	Early-mature Sycamore *Acer pseudoplatanus*	To 14	1+	1+ n/a	To 40	See plan	Three trees of a reasonable form. No major visible defects.	No action required. n/a	GOOD	GOOD	LOW	MOD	40+	C 2
G 23	Early-mature Goat Willow *Salix caprea*	To 12	1+	1+ n/a	To 42	See plan	Three trees of a reasonable form. Decay cavities noted.	Monitor biennially. Low	GOOD	FAIR	LOW	HIGH	20+	C 2
G 24	Early-mature Mixed species *Details in observations*	To 14	0+	0+ n/a	To 60	See plan	Goat Willow and Sycamore of a poor individual form.	No action required. n/a	GOOD	FAIR	LOW	MOD TO HIGH	20+	C 2
G 25	Early-mature Grey Poplar *Populus x canescens*	To 19	2+	2+ n/a	To 68#	See plan	Seven trees of a vertical and balance form. Root severance noted.	Monitor biennially. Low	GOOD	FAIR	MOD	HIGH	40+	1 B 2
T 26	Early-mature Wild Cherry *Prunus avium*	12	1	1 n/a	25, 20, 18	5 6 3.5 1	Multi-stemmed at ground level with an unbalanced crown. The co-dominant stem to the east has collapsed.	Remove to ground level. Low	FAIR	POOR	LOW	MOD	<10	U
G 27	Semi-mature Sycamore *Acer pseudoplatanus*	To 10	1+	1+ n/a	To 20	See plan	Two trees of a poor form.	No action required. n/a	GOOD	FAIR	LOW	MOD	20+	C 2
G 28	Early-mature Mixed species *Details in observations*	To 14	0+	0+ n/a	To 68#	See plan	A group comprised mainly of Goat Willow with Sycamore, Common Ash and Rowan also noted. Bark wound noted. Earthworks resulting in root severance throughout the group.	Monitor biennially. Low	GOOD	GOOD	MOD	MOD TO HIGH	40+	1 B 2
G 29	Early-mature Goat Willow *Salix caprea*	To 12	0+	0+ n/a	To 70	See plan	Three trees of a poor form. Bark wounds due to mechanical damage noted.	Monitor biennially. Low	GOOD	POOR	LOW	HIGH	20+	C 2
G 30	Semi-mature Pine *Pinus sp.*	To 11	1+	1+ n/a	To 12	See plan	Two trees of a reasonable form. No major visible defects.	No action required. n/a	GOOD	GOOD	LOW	MOD	20+	C 2

Tree Ref.	Age Common Name *Botanical Name*	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations Priority	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
T 31	Early-mature Norway Maple *Acer platanoides*	13	3	3.5 n/a	46	5 4.5 5 4	Twin-stemmed at 4m with a balanced crown. Occasional pruning wounds. A bark tear is present on the stem.	Monitor biennially. Low	GOOD	GOOD	MOD	MOD	40+	B 1
T 32	Early-mature Rowan *Sorbus aucuparia*	8	2	1.5 NW	27	3 1 3.5 3	Single-stemmed and leaning with an unbalanced crown and a poor form. Basal scar noted.	Monitor biennially. Low	GOOD	FAIR	LOW	MOD	10+	C 1
T 33	Early-mature Common Ash *Fraxinus excelsior*	12	5	5 n/a	31	4 2 4.5 3	Single-stemmed and leaning with an unbalanced crown and a poor form. Ash Dieback noted.	Monitor biennially. Low	FAIR	FAIR	LOW	MOD	10+	C 1
T 34	Early-mature Common Ash *Fraxinus excelsior*	11	2	3 n/a	44	4 4 4 4	Single-stemmed and vertical with a balanced crown. Ash Dieback noted.	Monitor biennially. Low	FAIR	FAIR	LOW	MOD	10+	C 1
T 35	Early-mature Silver Birch *Betula pendula*	16	2	4 n/a	48	6 6 6 6	Single-stemmed and vertical with a balanced crown. Occasional pruning wounds. No major visible defects.	No action required. n/a	GOOD	GOOD	MOD	LOW	40+	B 1
T 36	Early-mature Common Ash *Fraxinus excelsior*	10	2	2 n/a	41	5 5.5 7 5	Twin-stemmed at 2.5m with a balanced crown. Ash Dieback noted.	Monitor biennially. Low	FAIR	FAIR	LOW	MOD	10+	C 1
G 37	Early-mature Rowan *Sorbus aucuparia*	To 11	3+	3+ n/a	To 26	See plan	Three trees of a good form. No major visible defects.	No action required. n/a	GOOD	GOOD	MOD	MOD	40+	B 2
T 38	Early-mature Sycamore *Acer pseudoplatanus*	12	1	1 n/a	18 x 5	3 3 3 3	Multi-stemmed at ground level with a balanced crown. Not fully inspected due to vegetation.	No action required. n/a	GOOD	GOOD	LOW	MOD	20+	C 1
T 39	Early-mature Common Ash *Fraxinus excelsior*	9	3	4 n/a	20	3 3 3 3	Single-stemmed and vertical with a balanced crown. Ash Dieback noted.	Monitor biennially. Low	FAIR	FAIR	LOW	MOD	10+	C 1
T 40	Semi-mature Common Ash *Fraxinus excelsior*	7	3	3 n/a	14	2 2 2 2	Single-stemmed and vertical with a balanced crown. Ash Dieback noted.	Monitor biennially. Low	FAIR	FAIR	LOW	MOD	10+	C 1

Tree Ref.	Age Common Name *Botanical Name*	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations Priority	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
G 41	Early-mature Whitebeam *Sorbus aria*	To 10	2+	2+ n/a	To 40	See plan	Three trees of a good form. Not fully inspected due to Ivy and vegetation.	No action required. n/a	GOOD	GOOD	MOD	MOD	40+	B 2
T 42	Early-mature Norway Maple *Acer platanoides*	11	2	2 n/a	35#	5# 5# 5# 5#	Single-stemmed and vertical with a balanced crown. Not fully inspected due to vegetation.	No action required. n/a	GOOD	GOOD	MOD	MOD	40+	B 1
G 43	Early-mature Mixed species *Details in observations*	To 15	0+	0+ n/a	To 65	See plan	A group of Pine, Goat Willow, Downy Birch, Sycamore, Larch and Norway Maple of good form. Earthworks resulting in root severance noted throughout the group.	Monitor biennially. Low	GOOD	GOOD	MOD	LOW TO HIGH	40+	1 B 2

Appendix 2: Explanation of Tree Descriptions

A2.1 Measurements/ Reference Information

A2.1.1 *REF NUMBER.* All items surveyed are allocated a reference number preceded with a letter, identifying the type of vegetation surveyed: T = an individual tree, G = a group of trees or an area of vegetation, W = woodland, H = a hedgerow.

A2.1.2 *SPECIES: COMMON AND BOTANICAL NAME*. The common and botanical names of the species present are noted. If the species is not clear or identifiable, then a general common name and genus will be noted.

A2.1.3 *AGE CLASS* of the tree is described as young, semi-mature, early-mature, mature, over-mature, veteran or dead.

A2.1.4 *HEIGHT* of the tree is measured in metres from the stem base to the top of the crown.

A2.1.5 *CROWN HEIGHT* is an indication of the height above ground level at which the crown begins.

A2.1.6 *STEM DIAMETER* is measured at 1.5 metres above (higher) ground level. Where the tree is multi-stemmed at this point; diameter measurements are taken for each stem. If more than five stems are present, an average stem diameter is taken. If for whatever reason it is not practical to measure multiple-stemmed trees in this way, the diameter is measured close to ground level, just above the root buttress.

A2.1.7 *CROWN SPREAD* is measured from the centre of the stem base to the tips of the branches to all four cardinal points.

A2.1.8 *HEIGHT AND DIRECTION OF LOWEST BRANCH.* The height and direction of the lowest significant branch is noted because of potential issues relating to clearances and the need for tree pruning.

A2.1.9 *NHBC WATER DEMAND.* The water demand of each tree is listed in accordance with current NHBC Standards. This is included to aid structural engineers, architects and other members of the design team as it determines foundation depth and other considerations with regard to trees.

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A2.2 Evaluations

A2.2.1 *PHYSIOLOGICAL CONDITION* is classed as good, fair, poor, or dead. This is an indication of the health and vitality of the tree and takes into account vigour, presence of disease and dieback.

A2.2.2 *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.

A2.2.3 *LIFE EXPECTANCY* is classed as; 0, less than 10 years, 10+ years, 20+ years, or 40 + years. This is an indication of the minimum number of years before removal of the tree is likely to be required.

A2.2.4 *AMENITY VALUE.* A general indication is given in respect to the amenity/landscape value of the tree/group within the surrounding area.

A2.2.5 *PRIORITIES.* A priority rating is given concerning the time periods in which the recommended works should be undertaken. LOW priority works should be undertaken within 12 months of the survey, MOD (moderate) priority works should be undertaken within 6 months and HIGH priority works should be completed as soon as practically possible. If no works are recommended, N/A (not applicable) will be used.

A2.3 Retention Categories

A2.3.1 ***A (marked green on the Tree Constraints Plan) = Trees of high quality.***

These trees are of high quality and value with a good life expectancy (usually with an estimated remaining life expectancy of 40 years).

A2.3.2 ***B (marked in blue on the Tree Constraints Plan) = Trees of moderate quality.***

These trees are of moderate quality and value with a reasonable life expectancy (usually with an estimated life expectancy of at least 20 years).

A2.3.3 ***C (marked in grey on the Tree Constraints Plan) = Trees of low quality.***

These trees are of low quality and value but which are in adequate condition to remain or are young trees with a stem diameter below 15cm (usually with an estimated life expectancy of at least 10 years).

A2.3.4 Trees categorised as retention category ‘A’, ‘B’ or ‘C’ are then justified by being further divided into 3 subcategories:

1 = Mainly arboricultural qualities.

2 = Mainly landscape qualities.

3 = Mainly cultural values, including conservation value.

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A2.3.5 ***U (marked in red on the Tree Constraints Plan) = Trees usually unsuitable for retention due to poor condition.***

These trees are in such a condition that they cannot be realistically retained as living trees in the context of the current land use for longer than 10 years. This may be due to any of the following:

1) Failure is likely due to serious, irredeemable, structural defects.
2) Removal of other category U trees will render them exposed and unstable.
3) They are in serious, overall decline or are dead.
4) They are of low quality and suppressing adjacent trees of better quality.
5) Diseases are present which may affect the health of adjacent trees.

These trees are to be removed or managed in a way which reduces their risk of failure, where they have high ecological value, such as in a woodland setting.

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Appendix 3: General Guidelines

A3.1 All tree work must be undertaken to BS 3998: 2010 '*Recommendations for tree work'* or other recognised industry practice.

A3.2 Staff carrying out the work must be qualified, experienced and ideally be Arboricultural Association approved contractors. They should be covered by adequate public liability insurance.

A3.3 This report is based upon a visual inspection. The consultant 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 the guidelines and the terms listed in this report.

A3.4 Any defects seen by a contractor or the employer that were not apparent to the consultant must be brought to the consultant's attention immediately.

A3.5 No liability can be accepted by JCA in respect of the trees unless the recommendations of this report are carried out under the supervision of JCA and within JCA's timescale.

A3.6 It is advisable to have trees inspected by an arboricultural consultant regularly.

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Appendix 4: Author Qualifications

Principal Consultant and Managing Director

Jonathan Cocking *F.R.E.S., Tech. Cert. (Arbor.A), PDipArb (RFS) FArborA CBiol MSB. MICFor.* Jonathan is a Registered Consultant and Fellow of the Arboricultural Association and sits on its Professional Committee. He has 31 years' experience in the Arboricultural profession and served for eight years as Senior Arboriculturist with a large local authority before establishing JCA in 1997. Jonathan has since developed JCA's portfolio of services and its extensive client base. He is a Chartered Biologist, a Chartered Arboriculturalist and an Expert Witness with much experience of litigation work.

Technical Director

Toby Thwaites *BSc (Hons), HND (Arboriculture), MArborA.* Toby joined JCA in 1998 after graduating in Ecology at the University of Huddersfield and has since graduated in Arboriculture at the University of Central Lancashire. A former JCA team leader and Consulting Arboriculturist, Toby is now Technical Director and oversees all office and on-site activities at JCA and is on hand to offer technical support and advice.

Operations Director

Charles Cocking *FdSc (Arboriculture), MArborA.* Charles joined JCA in January 2014 having previously worked for the company on a part time basis during 2013. Charles obtained his Foundation Degree in Arboriculture at Askham Bryan College, York, and is a Professional Member of the Arboricultural Association. Charles now oversees all internal operations for the company.

Consulting Staff: Arboriculture

Andrew Bussey. Andrew started working in consultancy at JCA in 2006 having spent 12 years working as an arborist for various private companies before joining a Local Authority forestry team. He has various NPTC qualifications, is QTRA qualified and is a LANTRA Accredited Professional Tree Inspector.

Emily Wilde *FdSc (Arboriculture).* Emily joined JCA having previously worked for various private tree surgery and consultancy companies over the past 8 years. She initially obtained a ND in Forestry & Arboriculture, followed by a FdSc in Arboriculture at Askham Bryan College, York. Emily has various NPTC certificates and is QTRA qualified.

Mick Eltringham *ND (Forestry).* Mick joined JCA after spending 12 years working in the industry for various private companies in the north and south of England. He has also spent the last five years working as a consultant for two canopy research projects in the Amazon Rainforest, working with Oxford University and the University of Arizona. He has various NPTC Qualifications.

Dan Kemp *FdSc (Arboriculture), BTEC National Diploma(Arboriculture), National Certificate In Horticulture, City & Guilds In Horticulture.* Dan joined JCA in February 2019 with nearly 30 years' experience in arboriculture with extensive Botanical and Mycological expertise. He worked as a London Tree Officer for 12 years and in several arboricultural and horticultural management posts, specialising particularly in tree risk assessments and tree related subsidence.

Luke Wickham *FdSc (Arboriculture and Urban Forestry), TechArborA.* Luke joined JCA in 2021 after obtaining his Foundation Degree in Arboriculture and Urban Forestry at Askham Bryan College. Having previously worked within the industry for the past 4 years, running his own small business and sub-contracting for local firms, Luke brings a sound knowledge and understanding of the practical and academic sides of the industry.

Administrative Staff

Catherine Cocking Accounts Manager.
Kelly Saunders Accounts Assistant.
Lorraine Spink Administrative Assistant.
Adie Gray I.T. Officer.

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Root Protection Area: RPA

THE ROOT PROTECTION AREA SHOULD IDEALLY REMAIN UNDISTURBED IF THE TREE IS TO BE RETAINED.

THE DEVELOPMENT PROPOSALS SHOULD THEREFORE BE DESIGNED TO AVOID THE RPA OF ANY TREE WHICH IS TO BE RETAINED.

IF IT IS NECESSARY FOR THE DEVELOPMENT TO ENCROACH INTO THE RPA OF A TREE WHICH IS TO BE RETAINED THEN SPECIALIST CONSTRUCTION TECHNIQUES AND MATERIALS MUST BE CONSIDERED.

TREE ROOT PROTECTION AREAS HAVE NOT BEEN OFF-SET DUE TO MULTIPLE SITE CONSTRAINTS WHICH INCLUDE GROUND LEVEL CHANGES, CONCRETE PLATFORMS AND RETAINING WALLS

THIS PLAN IS TO BE PRINTED IN COLOUR AND READ IN CONJUNCTION WITH THE JCA ARBORICULTURAL REPORT (JCA REF: 21765/AJB)

Appendix 5: Tree Constraints Plan

ADDRESS: Land at Blackmoorfoot Road, Crosland Moor, Huddersfield, West Yorkshire, HD4 5NU.
JCA REF: 21765/AJB

SCALE : 1:500	PAPER SIZE : A1

SURVEYED BY: AJB	DRAWN BY: AJB	APPROVED BY: ME

BRITISH STANDARD 5837:2012: 4.5 RETENTION CATEGORIES

Detailed definitions of these categories are at Appendix 2 of our report. N.B. These categories do not necessarily represent or correspond to recommendations for action made in this report.

	CATEGORY A: 'RETENTION MOST DESIRABLE'
	CATEGORY B: 'RETENTION DESIRABLE'
	CATEGORY C: 'TREE WHICH COULD BE RETAINED'
	CATEGORY U: 'TREE FOR REMOVAL'
	STEM OF TREE TO BE RETAINED
	STEM OF TREE TO BE REMOVED
	ROOT PROTECTION AREA

JCA Limited

Arboricultural & Ecological Consultants

I hope that this report provides all the necessary information, but should any further advice be needed please do not hesitate to contact the author.

Signed

Redacted

.....

Andrew Bussey *LANTRA Accredited PTI.*

22nd March 2024

For and on behalf of ***JCA Ltd***

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JCA Ltd. Arboricultural and Ecological Consultants
Professional Tree and Ecology Advice nationwide

ARBORICULTURAL SERVICES

Guidance for Architects and Developers

- British Standard 5837 Tree Surveys
- Arboricultural Implication Assessments (AIA)
- Arboricultural Method Statements (AMS)

Advice for Engineers, Loss Adjusters and Insurers

- Tree Surveys for Subsidence
- Heave Assessment
- Tree Root Identification

Advice for Local Authorities and Social Housing

- Tree Safety Surveys
- Specialist Decay Detection
- Landscape and Orchard Design

Tree Advice for the Legal Profession

- Subsidence Litigation
- Personal Injury and Accident Investigation
- Expert Witness, Planning Inquiries and Appeals

Veteran Tree Management

- Ancient Woodland Management
- Veteran Tree Management

Tree Health and Pest and Disease Management

- Pest and Disease Surveys
- Tree Health Checks
- Disease Mitigation and Control

ECOLOGICAL SERVICES

Ecological Pre-Planning Services

- Phase 1 Habitat Surveys
- Great Crested Newt eDNA Sampling
- Protected Species: Bat, Wintering and Nesting Bird, Badger, Amphibian, Otter, Water Vole, White-Clawed Crayfish, Dormice and Reptile Surveys.
- Preparation for Environmental Impact Assessment (EIA)
- Invasive Species Surveys
- Code for Sustainable Homes

Ecological Post-Planning Services

- Biodiversity Enhancement Plans
- Protected Species Mitigation
- Ecological Management (Bat and Bird box installation and inspection)

HEAD QUARTERS:

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