Arboricultural Survey Data

Site: Land at Monks House Lane, Spalding
Date surveyed: 9th November 2022
Client: Seagate Homes Ltd

Key to Tree Survey Data

Height		Estimated or measured with clinometer where considered critical (m)
Crown spread		At cardinal points (m)
Remaining Contribution		Estimated number of years the tree may contribute in a safe condition
Main Stem Diameter		Measured at 1.5 metres above ground or in accordance BS5837: 2012 Annex C and D
Condition	Good:	No visible defects seen
	Reasonable:	Some defects seen but none that contribute significantly to the overall health and safety of the tree
	Poor:	Defects or health issues that contribute significantly to the overall health and safety of the tree
Age Class	Y	= Young (Less than 1/3 of normal expected life)
	SM	= Semi-mature (1/3 – 2/3 of normal expected life)
	M	= Mature
	OM	= Over-mature or in decline
	V	= Veteran
RPA (Radius)		Distance in metres from centre of tree to achieve a circular Root Protection Area
RPA (Area)		Root Protection Area in square metres.
Recommendation		Recommended course of action made irrespective of proposed site layout.

U	Trees in poor condition: value lost within 10 years; serious defects, dead, in irreversible decline, infected with pathogens significant to health of other trees nearby
A1	Trees of high quality and value; offering at least 40 years' contribution; particularly good example of species
A2	Trees of high quality and value; offering at least 40 years' contribution; screening or softening effect
A3	Trees of high quality and value; offering at least 40 years' contribution; conservation, historical or other value
B1	Trees of moderate value; offering at least 20 years' contribution; slightly impaired condition but remediable
B2	Trees of moderate value; offering at least 20 years' contribution; distinct landscape feature as a group or woodland.
B3	Trees of moderate value; offering at least 20 years' contribution; trees with clearly identifiable conservation or other cultural benefits.
C1	Trees of low quality and value; at least 10 years' contribution; trees not qualifying in higher categories
C2	Trees of low quality and value; at least 10 years' contribution; groups or woodlands without significant landscape value, trees of low or temporary landscape value
C3	Trees of low quality and value; at least 10 years' contribution; trees with limited conservation or other value

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Group A	Oak, Hornbeam, Whitebeam, Beech, Sycamore, Cherry, Norway Spruce, Horse Chestnut, Alder, Hazel, Silver Birch	SM	500	16	0	18	B2	5	5	5	5	6	113.11	40+	Reasonable	Maturing plantation containing several higher quality trees and several poor or low quality trees	Consider if retaining some trees is feasible. Most are large woodland species so may not fit with a modern residential development
Group B	Crab Apple	OM	350	6	0	6	C2	4	4	4	4	4.2	55.42	10+	Reasonable	Now in last third of safe useful life expectancy. Unlikely to be considered suitable for retention.	Fell and replace.
9814	Norway Spruce	SM	400	12	0.5	12	C1	3.5	3.5	3.5	3.5	4.8	72.39	10+	Reasonable	Unlikely to be considered suitable for retention. Infested with Larch Woolly Aphid.	Fell and replace.

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Group C	Goat Willow	Y	200	6	0	12	C2	3	3	3	3	2.4	18.1	40+	Reasonable	Poor form. Unlikely to be considered suitable for retention. Natural generation	Fell and replace.
Group D	Goat Willow	Y	250	6	0	12	C2	3	3	3	3	3	28.28	40+	Reasonable	Unlikely to be considered suitable for retention. Natural generation	Fell and replace.
NT1	Autumn Flowering Cherry	Y	250	5	1.5	8	C1	4	4	4	3	3	28.28	40+	Reasonable	Tree on neighbouring property therefore not closely inspected. No visible defects seen.	No work required.
NT2	Goat Willow	Y	200	5	1.5	8	C1	2	2	2	2.4	18.1	40+	Reasonable	Multi-stemmed form. Unlikely to be considered suitable for retention.	Fell and replace.

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NT3	Elder	M	200	5	1.5	5	C1	2	2	2	2	2.4	18.1	10+	Reasonable	Now in last third of safe useful life expectancy. Unlikely to be considered suitable for retention.	Fell and replace.
9815	Horse Chestnut	SM	735	15	0	15	U	7	6	7	7	8.82	244.42	<10	Poor	Moderate infection with Horse Chestnut Bleeding Canker. Now in last third of safe useful life expectancy. Not worthy of retention.	Fell and replace.
9816	Cypress	SM	350	15	0	15	C1	7	6	7	7	4.2	55.42	40+	Reasonable	Suppressed. Crown distorted due to group pressure.	Fell and replace.
9817	Beech	SM	550	12	0	18	B1	2.5	6	6	6	6.6	136.87	40+	Reasonable	No visible defects seen. Crown distorted due to group pressure.	Could be retained with space. No work required.

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9818	Apple	M	300	5	0	5	C1	3	4	1.5	3	3.6	40.72	40+	Reasonable	No visible defects seen. Crown distorted due to group pressure.	Could be retained. Carry out cultural pruning
9819	Apple	M	150	5	0	5	C1	2.5	2.5	2.5	2.5	1.8	10.18	10+	Reasonable	Low vigour. Now in last third of safe useful life expectancy. Unlikely to be considered suitable for retention.	Fell and replace.
9820	Plum	M	200	4.5	0	4.5	U	2.5	1.5	1.5	3	2.4	18.1	<10	Poor	Low vigour. Now in last third of safe useful life expectancy. Not worthy of retention.	Fell and replace.
9821	Apple	M	300	5	0	5	B1	4	4	4	5	3.6	40.72	40+	Reasonable	No visible defects seen.	Could be retained. Carry out cultural pruning

Arboricultural Survey Data

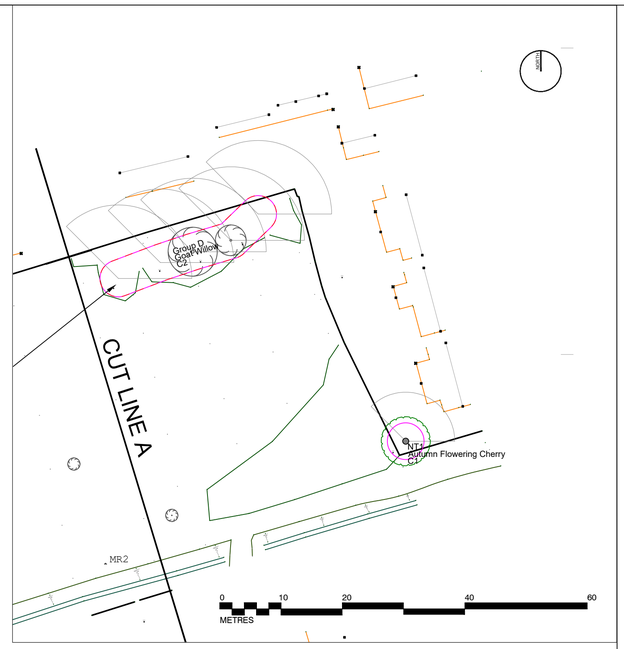
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9822	Amelanchier	SM	250	6	0	6	B1	2.5	2.5	2.5	2.5	3	28.28	40+	Reasonable	No visible defects seen. Moderate ivy prevents inspection.	Could be retained.
9823	Purple Leaf Plum	M	350	8	0	8	B1	4.5	3	4.5	3	4.2	55.42	20+	Reasonable	No visible defects seen.	Could be retained.
9824	White Poplar	SM	650	16	2.5	20	B1	8	10	11	7	7.8	191.16	40+	Reasonable	No visible defects seen. Scattered minor dead wood throughout crown. Not ideally suited to residential development.	Could be retained with space. Remove dead wood greater than 25mm in diameter.
Group E	Cherry Laurel	M	250	6	0	12	C2	4	4	4	3	3	28.28	40+	Reasonable	Multi-stemmed form. Some screening value. May affect dyke maintenance	Could be retained.

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9825	Corsican Pine	SM	500	14	2	14	C1	5	5	5	5	6	113.11	10+	Poor	Not worthy of retention. Scattered minor dead wood throughout crown. Several weak stem unions in structure. Recent low quality pruning work to West side. Telephone wires in crown	Fell and replace.



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NOTES: Based on survey drawing 16170503-MONKROAD-DRAFT GA - TOPOGRAPHICAL SURVEY

The original of this drawing was produced in colour – a monochrome copy should not be relied upon

KEY

- GRADE A TREES
- GRADE B TREES
- GRADE C TREES
- GRADE U TREES
- ROOT PROTECTION AREA
- CANOPY OUTLINE - INDIVIDUAL TREE
- CANOPY OUTLINE - GROUPS
- CANOPY OUTLINE - FUTURE POTENTIAL
- TREES TO BE REMOVED
- INDICATIVE SHADE AREA

Arboricultural Constraints

Root Protection Area

The Root Protection Area (RPA) is illustrated as a magenta circle or polygon around each tree or group of trees. This is the area where if the trees are retained, ideally no excavation should take place; the soil level should not be raised or lowered; no materials should be stacked; there must be no contamination and no services should be routed.

However, trees may be tolerant of some disturbance and recent advances in construction techniques can avoid causing significant damage to roots. This will depend on a number of factors including tree species and site conditions along with the type of construction methods available to the developer.

Shade or Light-Loss

The shade area is based on a solar inclination of 45° in line with the median suggested by BS5837. Building within the shade area can be acceptable where internal layout, fenestration or proposed use of buildings means they are not adversely affected by a lack of daylight received. Some shading may be welcomed in the summer when solar gain can make room temperatures uncomfortable.

Above Ground Constraints

The height of the lower crown above ground is shown in the survey. Lifting (or raising) the crown to a set height above ground in order to install fences, achieve clearance over the driveway or allow access for plant and machinery would be an acceptable arboricultural practice. Crown spread may in its self be a constraint where it is greater than the RPA radius. Reference must be made to the tree survey schedule.

Trees on Neighbouring Land

Trees on neighbouring ground must be taken into consideration. These are shown on the plan.

Future Growth

Where future radial growth is possible, this has been illustrated as a broken green line. The potential future height has been illustrated in the shade patterns drawn.

Suitability for Retention

In general, Grade 'A' and 'B' trees should be retained, especially if they offer a visual amenity to the wider community. It may be desirable to retain Grade 'C' trees where they can continue to offer a presence until they are replaced but they should not generally prevent an otherwise satisfactory layout from being achieved. Some of the trees surveyed offer any current or future public visual amenity.

Statutory Protection

None of the trees surveyed are included a TPO.

The site does not lie within a Conservation Area.

Design Objectives

Design a layout that takes account of the root protection areas of retained trees, with an aim to leave at least 2m beyond the radial extent of the RPA to make the practical execution of development feasible, (subject to other constraints) .

Design a layout that takes the shading and above ground constraints into account. Shady areas beyond the crown spreads of trees would be best for car parking. Gardens must receive direct sunlight over a reasonable proportion of the area (25% is suggested) to be satisfactory.

Service routes must be located outside of the RPAs of retained trees.

Implement a tree protection scheme before development (including demolition) starts on site.

Make provision for replacement planting within the landscape proposals.

Rev	Description	Date
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Purpose of Issue
Information Only

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Client
SEAGATE HOMES

Project
Land at Monks House Lane, Spalding

Drawing Title
TREE CONSTRAINTS PLAN

Drawn	Checked	Reviewed	Date
AMB	--	--	10/11/2022
Job No.	Scale	Sheet Size	Revision
5099	1:500	A1	

Drawing Number
5099.Monks.Seagate.TCP