Peace Arboriculture

Caroline Hall

Arboricultural Method Statement for proposed new development at Barbers Drove North development, Crowland

Planning reference HO2-0696-22 Condition 16

Site:	**17, Barbers Drove North, Crowland, Peterborough**
Commissioned by:	**Douglas Cheung, Seagate Homes Ltd**
Date	**October 2024**

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Section 1

Instructions

1.1 This report was commissioned by Douglas Cheung on behalf of Seagate Homes Ltd.

1.2 The client has commissioned the report to provide information with regard to tree protection methods during construction of the development of 41 new dwellings, planning reference HO2-0696-22, Condition 16.

1.3 The report will contain an Arboricultural Method Statement to include tree pruning and tree protection methods of retained trees along the northwest and southeast boundaries.

1.4 Inspection dates: 10th and 17th October 2024.

1.5 Inspected by Caroline Hall, BSc (Hons), (Tech Cert (Arbor A)) – arboriculturalist.

Section 2

Limitations of this report

2.1 As trees are living plants their health and condition can change both by forces of nature, intervention by people or vehicles, and with the seasons. For this reason, the recommendations in the report are valid for one year only.

2.2 The trees were examined from ground level and to the guidance in BS5837:2012, thus trees with a stem diameter below 75mm at 1.5m from ground level are not included within the appraisal.

2.3 Soil samples were not taken during the survey. Engineering solutions in relation to foundation design are outside the scope of this report.

2.4 The report takes into account the site as laid out at the time of inspection. Any additional structures, alterations or extensions to buildings, altering of soil levels or trenching, without consultation, could render the report on the surveyed trees void.

2.5 Management considerations have been included within the Tree Schedule; however, no tree should ever be regarded as completely safe or free from risk.

Trees are dynamic, living organisms subject to change and the physical and environmental conditions that surround them.

Section 3

Tree Inspection and Site Information

3.1 The trees were initially surveyed in relation to the guidance in the document BS 5837:2012-*Trees in Relation to design, demolition and construction – Recommendations*, and assessed to the criteria within this standard in October 2020. The scheme is now in the build phase, and the remaining trees require tree protection methods which will be outlined within this report.

3.2 The site was originally an open field with one residential dwelling. The site has a boundary with the public highway on the south and southeast boundaries, and along the northwest a residential dwelling and associated grounds. To the north is a drain maintained by the IDB.

3.3 Seven trees along the northwest boundary are protected under a Tree Preservation Order (Crowland No.23) Order 2022.

3.4 This new report is only concerned with any remaining trees since the initial survey and removed trees have been omitted.

3.5 The Arboricultural Method Statement details how construction can be executed with minimal disruption to the retained trees. Construction Exclusion Zone and tree protection methods pertinent to this development are appended to the end of this report.

Section 4

Arboricultural Method Statement

4.1 Tree Works and Access Facilitation Pruning

4.1.1 Tree works are shown within the table appended to the end of this report and consist of construction clearance pruning. All of the tree works will require written permission from the Tree Officer at South Holland District Council, and form part of the tree protection within Condition 16.

4.1.2 For works along the northwest boundary, a Tree Works Application to South Holland District Council is required for works to T5, T6, T7, T8, T9, T14 and T15 for works under a TPO. Works to these trees will only be permitted following formal consent.

4.1.3 Works to be carried out to the British Standard BS3998 (2010). No heavy plant to be sited within the RPA of any retained tree during the vegetation clearance works.

4.1.4 Timing of these works to take consideration of the bird nesting season. It is recommended that the works are carried out between 31 August and 28 February.

Contractors to be made aware of the importance of the retained trees, the root protection areas, soil surrounding these areas, and to proceed with caution within the vicinity of the root protection areas of any of the retained trees

4.2 Protective Fencing

4.2.1 Protective fencing to be installed as per the plan appended to the end of this report and is to be installed as near to the perimeter of RPAs to enable construction to take place. The default fencing is specified to BS 5837 (2012) figure 2, including signage, and consists of 2m weldmesh panels secured with scaffold poles erected to the area specified. It may be possible to use Heras-type fencing as an alternative as these use less ground space and suitable within more restricted areas.

4.2.2 The protective fencing is to remain in-situ for the duration of the construction. Signs to be added to the fencing prohibiting access for the duration of construction. With the exception of access to technicians, arboriculturalists, architects and planning inspectors relating to this project, it will not be necessary to access these areas, and they should be considered a Construction Exclusion Zone.

4.3 Ground protection within the RPA

4.3.1 Pedestrian access adjacent to buildings may use a layer of mulch over permeable membrane and adding side-butting scaffold boards. These measures are suitable for pedestrian access only, plant and vehicles are to be kept out of the RPA of retained trees.

4.3.2 The ground protection measures to be installed and left in-situ for the duration of construction.

4.3.3 Construction of the filter drain along the northwest boundary to be exercised with caution within the vicinity of the retained and TPO trees. The work is to be carried out with hand tools only, no excavation machinery is to be used within the Root Protection Areas of these trees, and no work to take place within **1 metre** of the base of any of the boundary trees.

4.4 Access and egress from the site

4.4.1 The existing entrance will form the points of access and egress from the site. The contractors' compound and materials storage have been shown within the construction method statement and is outside of the RPA of any of the retained trees.

4.5 Storage of plant, equipment and materials

4.5.1 No materials or chemicals are to be stored within the vicinity of the retained trees. Plant, equipment and vehicles are stored on-site, avoiding the Construction Exclusion Zones shown on the attached plan.

4.6 Precautions against contamination/damage during construction operations

4.6.1 No chemicals or cement mixing to be carried out within influencing distance of the retained trees.

4.6.2 No fires to be lit on the site.

4.6.3 Should any contaminants leak onto the site these should be flushed with clean water at the earliest opportunity. The site supervisor to be contacted in the first instance, and professional advice should be sought.

4.7 Site supervision

4.7.1 The project manager in will be responsible for all contractors and sub-contractors and will ensure any works will not adversely impact upon any retained vegetation on the site, including the soil surrounding root protection areas.

4.8 Responsibilities of the project manager or main contractor

4.8.1 Issues relating to Planning Conditions and Wildlife Legislation plus monitoring of items contained within the Arboricultural Method Statement

References

BS5837:2012 - *Trees in relation to design, demolition and construction – Recommendations*
BS3998:2010 - Tree work Recommendations
European Tree Pruning Guide 1999
The Body Language of Trees – Claus Mattheck and Helge Breloer
Manual of Wood Decays in Trees – C Mattheck and K Weber
http://www.forestry.gov.uk
NJUG Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees – Issue 2
https://nhbc-standards.co.uk/4-foundations/4-2-building-near-trees/

Contacts

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Appendices

TREE SCHEDULE

TREE PROTECTION PLAN – NORTHWEST BOUNDARY

TREE PROECTION PLAN – SOUTHEAST BOUNDARY

TREE SURVEY SCHEDULE

REMAINING TREES

Tree no	Species	Height (m)	Stem diamater at 1.5 metres (mm)	Radius of nominal cirlce	Root Protection area m^2	Branch Spread (m)	Height of Crown Clearance (m)	Age/Class	Physiological Condition	Structural Condition	Management recommendations October 2024	Estimated Remaining Contribution (years)	Category/Grading
T5	Birch (off-site) *Betula pendula*	#13	#300	3.6	41	N 3 S 3 E 3 W 3	2	EM	GOOD - ivy	GOOD - ivy	**Lift crown to 2.5-3 metres on build side only**	20-40	B2
T6	Birch (off-site) *Betula pendula*	#15	#300	3.6	41	N 3 S 3 E 3 W 3	1.5	M	GOOD - ivy	GOOD - minor ivy, minor sweep on stem	**Lift crown to 2.5-3 metres on build side only**	20-40	B2
T7	Chestnut (off-site) *Aesculus hippocastanum*	#12	#300	3.6	41	N 3 S 3 E 3 W 3	1.5	EM	FAIR - leaf miner infection, minor ivy, defoliating	GOOD	**Lift crown to 2.5-3 metres on build side only**	20-40	B2
T8	Birch (off-site) *Betula pendula*	#15	#300	3.6	41	N 3 S 3 E 3 W 3	1.5	EM	GOOD	GOOD - swept stem, pruning wounds, minor dead wood	**Lift crown to 2.5-3 metres on build side only**	20-40	B2
T9	Oak (off-site) *Quercus robur*	#12	#400	4.8	72	N 4 S 4 E 4 W 4	1.5	EM	GOOD	GOOD - minor dead wood, pruning wounds, stubs	**Lift crown to 2.5-3 metres on build side only**	40+	A2
T10	Ash was group now multi-stemmed tree *Fraxinus excelsior*	#12	Multi-stemmed, measurement of remaining tree estimated				2	EM	FAIR - tree showing signs of Ash dieback	FAIR - one subsided branch over build side, isolated areas of dieback	**Remove 1 x subsided branch nearest to build, sever ivy, remove dead wood over 25mm in diameter**	10-20	C1

TREE SURVEY SCHEDULE

REMAINING TREES

Tree no	Species	Height (m)	Stem diamater at 1.5 metres (mm)	Radius of nominal cirlce	Root Protection area m^2	Branch Spread (m)	Height of Crown Clearance (m)	Age/Class	Physiological Condition	Structural Condition	Management recommendations October 2024	Estimated Remaining Contribution (years)	Category/Grading
T14	Ash (off-site) *Fraxinus excelsior*	#12	#300	3.6	41	see plan	2	EM	GOOD	GOOD - limited access	**Lift crown to 2.5-3 metres on build side only**	20-40	B2
T15	Sycamore (twin stem) *Acer pseudoplatanu*	#12	#350, 350	5.9	109	N 4 S 4 E 4 W 4	2	M	GOOD	GOOD - limited access	**Lift crown to 2.5-3 metres on build side only**	20-40	B2
Shown on plan:	Remove self-set Ash and Elder from site between boundary trees and build area, cut 2 x Hawthorn back to boundary												
G16	Hawthorn (40 trees) *Crataegus monogyna*	#8	#200	2.4	18	see plan	1	EM	GOOD	GOOD - ivy, Elder, Bramble, Rose at base	**Clear brambles, ivy, ground cover, self set plants back to boundary line**	20-40	B2
T18	Cherry *Prunus avium*	#6	#300	3.6	41	N 3 S 3 E 3 W 3	2	EM	FAIR - die back through crown	FAIR - dead wood on north eat side, poor form	**Lift crown to 2.5-3 metres on build side only**	10-20	C1
T19	Sycamore *Acer pseudoplatanus*	#12	#400	4.8	72	N 4 S 4 E 4 W 4	1	EM	GOOD - minor die back, tar spot fungus	GOOD - low branches	**Lift crown to 2.5-3 metres on build side only**	20-40	B2
T20	Sycamore *Acer pseudoplatanus*	#14	#450	5.4	92	N 4 S 4 E 4 W 4	1	EM	GOOD - tar spot fungus	GOOD - low branches, minor dead wood	**Lift crown to 2.5-3 metres on build side only**	20-40	B2
T21	Sycamore *Acer pseudoplatanu*	#14	#450	5.4	92	N 4 S 4 E 4 W 4	1	EM	GOOD - tar spot fungus	GOOD - low branches, minor dead	**Lift crown to 2.5-3 metres on build side**	20-40	B2

TREE SURVEY SCHEDULE

REMAINING TREES

Tree no	Species	Height (m)	Stem diamater at 1.5 metres (mm)	Radius of nominal cirlce	Root Protection area m^2	Branch Spread (m)	Height of Crown Clearance (m)	Age/Class	Physiological Condition	Structural Condition	Management recommendations October 2024	Estimated Remaining Contribution (years)	Category/Grading
T22	Sycamore (twin stem) *Acer pseudoplatanus*	#14	110, 420	5.2	84	N 4 S 4 E 4 W 4	1.5	M	GOOD - tar spot fungus, minor die back from top	GOOD - minor dead wood, low branches, pruning wounds	**Lift crown to 2.5-3 metres on build side only**	20-40	B2
T23	Sycamore (twin stem) *Acer pseudoplatanus*	#13	280, 470	6.6	137	N 5 S 5 E 4 W 4	0.5	M	GOOD - tar spot fungus, minor die back from top	GOOD - minor dead wood, low branches, pruning wounds	**Reduce crown back from building side by 1-2 metres**	20-40	B2
T27	Sycamore *Acer pseudoplatanus*	#12	480	5.8	104	N 5 S 5 E 5 W 5	1	EM	FAIR - minor die back in upper crown, tar spot fungus	GOOD - exposed roots, minor dead wood, pruning wounds, low branches, peg for boundary wire	**Lift crown to 2.5-3 metres on build side only**	20-40	B2
T28	Sycamore *Acer pseudoplatanus*	#10	450	5.4	92	N 5 S 5 E 5 W 5	0.5	EM	GOOD - tar spot fungus	GOOD - exposed roots, low branches, crossed branches, pruning wounds, minor dead wood	**Lift crown to 2.5-3 metres on build side only**	20-40	B2

TREE SURVEY SCHEDULE

REMAINING TREES

Tree no	Species	Height (m)	Stem diamater at 1.5 metres (mm)	Radius of nominal cirlce	Root Protection area m^2	Branch Spread (m)	Height of Crown Clearance (m)	Age/Class	Physiological Condition	Structural Condition	Management recommendations October 2024	Estimated Remaining Contribution (years)	Category/Grading
T29	Whitebeam *Sorbus aria*	#8	460	5.5	96	N 3 S 3 E 3 W 3	2	M	POOR - moribund	POOR - major dead wood, die back	**Fell to ground level**	0-10	U
T30	Whitebeam *Sorbus aria*	#9	650	7.8	191	N 4 S 4 E 4 W 4	1	M	GOOD	FAIR minor lean, stem ribs, tight forks, crossed branches, pruning wounds, minor dead wood, die back, cracks in bark	**Lift crown to 2.5-3 metres on build side only**	20-40	B2
T31	Whitebeam *Sorbus aria*	#9	670	8.0	203	N 4 S 4 E 4 W 4	1	M	GOOD	FAIR minor lean, stem ribs, tight forks, crossed branches, pruning wounds, minor dead wood, die back, cracks in bark	**Lift crown to 2.5-3 metres on build side only**	20-40	B2

Key to Survey

Tree no: Number on plan

Species: Common name of tree, *Latin name of tree*

Height: Estimated in metres

Stem diameter: Measured in mm at 1.5 metres above ground level, multi stem values shown separately

Radius of nominal circle: Shown in metres as calculated to the guidance in BS5837

Root protection area m^2: The total area in m^2 of the root protection area

Branch spread: Estimated extent of canopy cover, shown at each point, N, S, E, W in metres

Height of crown clearance: Estimated height of lowest branches

Age/Class: Y – Young, newly planted, self set or still supported on a stake

EST – Established tree is thriving and does not require the support of a stake

EM – Semi-Mature, within 1/3 of expected normal life

M – Mature, tree has reached maturity, and is within 2/3 – 3/3 of expected normal life

OM – Over Mature, tree is within the last stage of life, or is already in decline

D – Dead

Condition: GOOD – no significant defects seen

FAIR – some defects which can either be rectified, or will not have a significant impact on the health and safety of the tree

POOR – defects which can not be rectified, and could have a significant impact upon the overall health and safety of the tree

DEAD

Preliminary Management Considerations: The recommendations at this stage are purely for good arboricultural management and do not have any bearing upon the proposed development

Estimated remaining contribution – in years

Category/Grading – U – Tree is in poor condition, dead, of low arboricultural value, or may only contribute a further 10 years

A1 – Tree has high value, is a good example of its species, offering 40 years or more

A2 – Tree has high value, offers screening and landscape contribution for 40 years or more

A3 – Tree has high value, offers cultural or historical value for 40 years or more

B1 – Tree has moderate value, has a slightly impaired value, but offers 20 years or more

B2 – Tree has moderate value, has distinct landscape value, offering 20 years or more

B3 – Tree has moderate value, offers clear conservation or cultural benefits for 20 years or more

C1 – Tree is of low quality and value, offers at least 10 years but does not qualify in higher categories

C2 – Tree is of low quality and value, groups or woodlands with temporary landscape value, for at least 10 years

C3 – Tree is of low quality and value, has limited contribution in terms of landscape or conservation but offering 10 years or more

- As trees are living plants their health and condition can change both by forces of nature, intervention by people or vehicles, and with the seasons. For this reason the recommendations in the report are valid for one year only

BARBERS DROVE

TREE PROTECTION PLAN – NORTHWEST BOUNDARY

TREES T5, T6, T7, T8, T9, T14 and T15 are all in TPO (CROWLAND 2023) ORDER 2022

KEY

EXTENT OF ROOT PROTECTION AREA

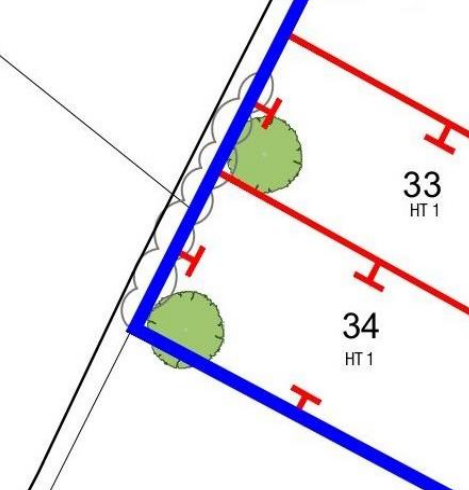
EXTENT OF CANOPY COVER

"A" CATEGORY TREE

"B" CATEGORY TREE

"C" OR "U" CATEGORY TREE

LIFT CROWNS OF T5, T6, T7, T8, T9, T14 AND T15 TO 2.5-3 METRES TO ALLOW FOR CONSTRUCTION CLEARANCE ONLY. FOR ANY GREATER CLEARANCE, BRANCHES TO BE TEMPORARILY TIED BACK, WHERE POSSIBLE, USE SECONDARY BRANCH REDUCTION TO ACHIEVE CLEARANCE, AS "B" BELOW:



TPO Sycamore T15

RPA 5.9m Ø

TPO Ash T14

Sycamore

Ash T10

TPO Oak T9

RPA 4.8m Ø

TPO Birch T8

TPO Chestnut T7

TPO Birch T6

TPO Birch T5

RPA 3.6m Ø

SELF SET ASH AND ELDER WITHIN THE SITE AND AWAY FROM BOUNDARY TO BE REMOVED

2 X HAWTHORN HEDGEROW TREES TO BE CUT BACK TO BOUNDARY

MULTI-STEMMED ASH – (WAS ORIGINALLY PART OF LARGER GROUP)

REMOVE LEANING AND SUBSIDED LIMB NEAREST TO BUILD SIDE, SEVER IVY, REMOVE DEAD WOOD OVER 25MM IN DIAMETER

CONSTRUCTION EXCLUSION ZONE

TREE PROTECTION BARRIER TO BE INSTALLED AT SITE SET UP AND RETAINED FOR THE DURATION OF CONSTRUCTION

PEDESTRIAN ACCESS ONLY WITHIN THIS AREA

Private Drive

Cross Place PE6 0FQ

Pepper Close PE6 0HY

AVOID USE OF ROOT PROTECTION AREAS WHEREVER POSSIBLE. CONTRACTORS TO BE MADE AWARE OF THE IMPORTANCE OF THE SOIL SURROUNDING THE ROOT PROTECTION AREAS OF RETAINED TREES. NO PLANT, HEAVY EQUIPMENT OR VEHICULAR ACCESS WITHIN THESE AREAS

NO PARKING OR STORAGE OF MATERIALS WITHIN THE ROOT PROTECTION AREAS

FILTER DRAIN TO BE INSTALLED WITH MINIMUM DISTURBANCE TO THE ROOT PROTECTION AREAS OF THE TREES AND NOT WITHIN 1 METRE OF THE BASE OF ANY TREE

AVOID AERIAL BRANCHES – IF NECESSARY, THESE MAY BE PRUNED TO A HEIGHT OF A MAXIMUM OF 3 METRES, FOR ANY GREATER CLEARANCE THESE SHOULD BE TEMPORARILY TIED BACK

SHOULD ANY ROOTS OVER 25MM BECOME EXPOSED, THESE SHOULD BE CUT WITH CLEAN, SHARP TOOLS AND BACK FILLED WITH SOIL AS SOON AS POSSIBLE. PLEASE CONSULT AN ARBORICULTURALIST SHOULD ANY LARGER ROOTS OR ENCROACHMENTS BE REQUIRED

BARBERS DROVE

TREE PROTECTION PLAN – SOUTHEAST BOUNDARY

