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Arboricultural Report
Land to the South West of
Stepmar
Elm Lane
Goxhill
North Lincolnshire

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1.0 INTRODUCTION

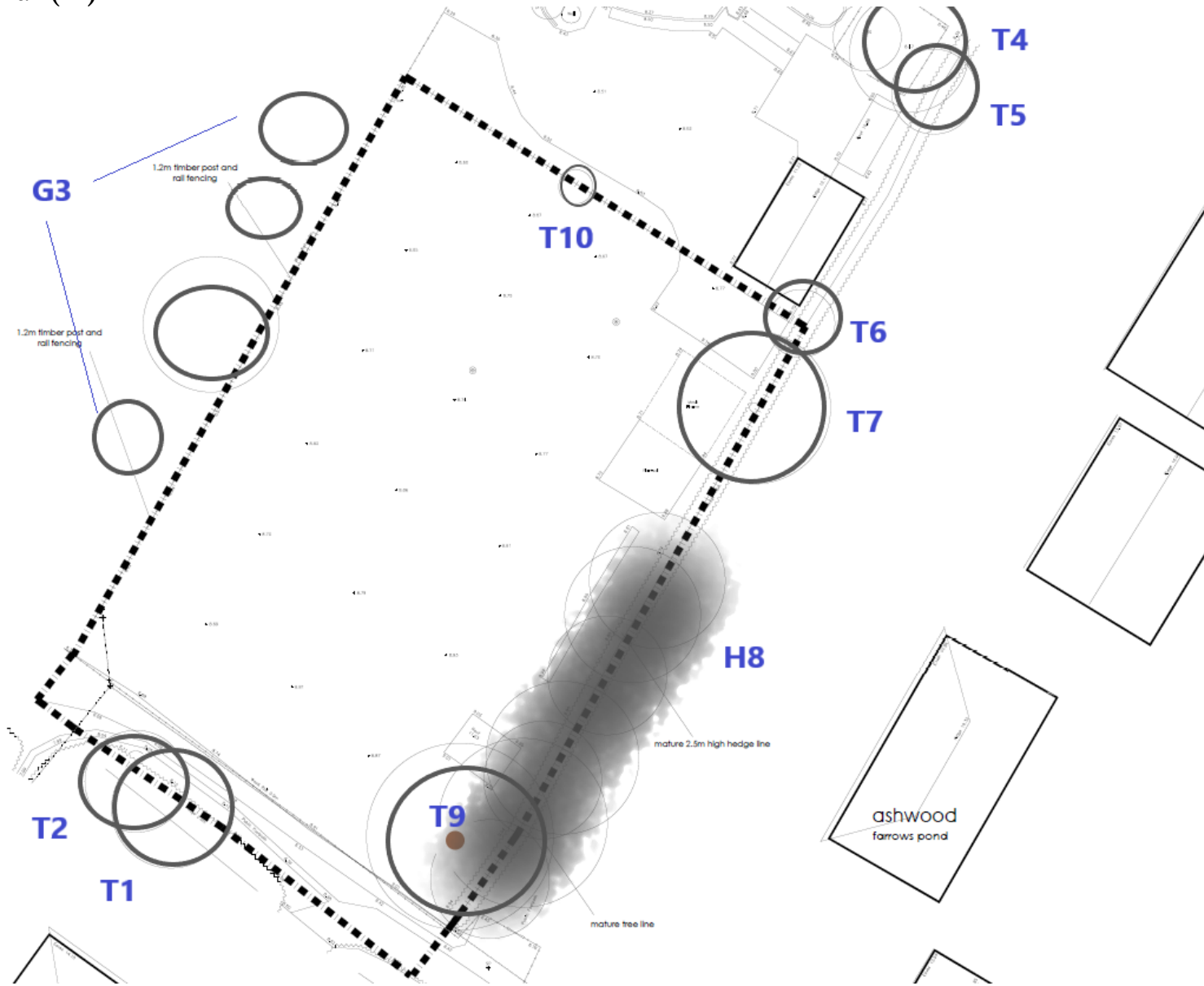
- 1.1 This report provides information in accordance with British Standard 5837:2012 'Trees in Relation to Design, Demolition and Construction' for a proposed development on land to the southwest of Stepmar, Elm Lane, Goxhill. The development proposals are for the construction of a residential property.
- 1.2 The arboricultural survey was commissioned by Philip Bingham and is linked to the design work undertaken by him as architect for the site. The aims of the survey were to undertake an assessment of all the existing trees within proximity of the proposed development, including trees on adjacent land.
- 1.3 The following information has been recorded in accordance with BS 5837:2012:-
- Designated tree number.
 - Tree Species – the common name has been given followed by the Latin or scientific name.
 - Height.
 - Stem or base (multi stemmed trees) diameter and root protection area.
 - Crown clearance (height of the periphery of the crown spread above ground level).
 - Branch spread (to N, S, E, and W).
 - Age class. This is given as young (Y), mature (M), and over mature (OM).
 - Physiological condition - general comments given only, poor, fair, good.
 - Tree structural condition - general comments given only, poor, fair, good.
 - Useful life expectancy.
 - Preliminary management recommendations.
 - Tree category (A, B, C or U).

2.0 SITE PLAN

2.1 Location Plan (1A)



2.2 Existing Site Plan (1B)



3.0 SURVEY METHODOLOGY AND SCHEDULE

- 3.1 The survey was carried out to British Standard 5837:2012, using the categories explained below:
- 3.2 The trees were assessed visually from ground level. Where potential problems were identified, further inspection by tree climbing is recommended. No digging or drilling methods were employed during this survey.
- 3.3 The trees were not given number tags.
- 3.4 The approximate height of each tree is measured from ground level to top of canopy using a clinometer.
- 3.5 The approximate diameter of each tree is measured at 1.5m above ground level. The root protection distance which has been expressed as a radius from the trunk of the tree has been given below the diameter measurement.
- 3.6 The age of each tree is based upon experience (Y= young, MA = middle aged, M= mature, OM=over mature).
- 3.7 The physiological condition of the trees is based upon experience (Good, Fair, Poor, Dead).
- 3.8 The structural condition and description is also based on experience (Good, Fair, Poor).
- 3.9 Both the approximate expected lifespan remaining and category/rating of each tree is based on the surveyor's experience.
- 3.10 The retention category of each tree or group of trees is based upon the information detailed above using the following categories:
 - A Trees of high quality and value
 - B Trees of moderate quality and value
 - C Trees of low quality and value
 - U Trees to be removed for arboricultural reasons
- 3.11 The following subcategories have been used in rating tree value
 - 1 Mainly arboricultural qualities
 - 2 Mainly landscape qualities
 - 3 Mainly cultural values, including conservation

3.12 Schedule of Trees

Note - The root protection area is listed below the stem diameter and is provided as a radius in metres from the trunk of the tree.

Tree no	Species	Height	Stem Dia RPA	Branch Spread	Crown Height	Age Glass	Physiological Condition	Structural Condition	Preliminary Management Recommendations	Useful life Expectancy	Category Grading
T1	Hawthorn	5m	200e 2.4m	2m	1m	M	Fair	Fair	No action Tree on adjacent land Heavy with ivy	20+	C2
T2	Elm	10m	300e 3.6m	3m	2m	MA	Good	Good	No action Tree on adjacent land	-	C3
G3	Small trees	9m	200e 2.4m	2m	1m	MA	Good	Good	No action Trees on adjacent land Rowan, plum, elm, liquidambar	20+	C2
T4	Rowan	9m	300e 3.6m	3m	2m	M	Good	Good	No action	20+	C2
T5	Red chestnut	12m	300e 3.6m	4m	2m	M	Good	Good	No action	40+	C2
T6	Silver birch	14m	180 2.1m	4m	2m	M	Fair	Fair	No action Tree leaning to north	20+	C2

Tree no	Species	Height	Stem Dia RPA	Branch Spread	Crown Height	Age Glass	Physiological Condition	Structural Condition	Preliminary Management Recommendations	Useful life Expectancy	Category Grading
T7	Field maple	12m	390 4.5m	4m	2m	M	Good	Good	No action	40+	C2
H8	Hawthorn Hedge	7m	200e 2.4m	2m	2m	M	Good	Fair	Minor hedge trimming .to the face of the hedge on both sides to control spread. One horse chestnut sapling in hedge	20+	C2
T9	Ash	15m	310 3.7m	4m	2m	M	Good	Good	Crown lift to provide 2m clearance to the roof.	-	C2
T10	Maidenhair Tree	7m	120 1.4m	1m	2m	Y	Good	Good	No action	40+	C2

4.0 ARBORICULTURAL IMPLICATIONS ASSESSMENT

Plan 2A – Proposed Layout



4.1 General Comments

The site contains no category B trees and the proposal is to retain all the trees on the site. The only tree which is close to the proposed property is T9, a young ash tree as illustrated in the photograph below. Only a small proportion of the root protection area is impacted by the development proposals which would have no significant impact on this young tree. As the tree was without leaf it was not possible to clearly assess whether the tree is suffering from ash dieback but this is a possibility in the future. The proposal would be to retain the tree but to raise the crown to provide 2m clearance to the roof.



4.2 Tree Protection Measures

Tree protection measures in the form of tree protection fencing and scaffold board ground protection are considered necessary during construction work. Details of the position of the fencing have been shown on plan 3A on the following page and details of the fencing construction in appendix A.

Tree Protection Plan – 3A



5.0 ARBORICULTURAL METHOD STATEMENT (AMS)

5.1 Local Planning Authority Meeting

- The Local Planning Authority to be notified not less than 72 hours prior to commencement of works on site.

5.2 Tree Removal and Pruning

- Crown lift ash tree T9 to provide 2m clearance to the house roof. Minor trimming to control spread of hedge H8.

5.3 Erection of Tree Protection

- Tree Protection Fencing and scaffold board ground protection to be erected as illustrated on plan 3A and in accordance with details shown in appendix A

5.4 Construction Work

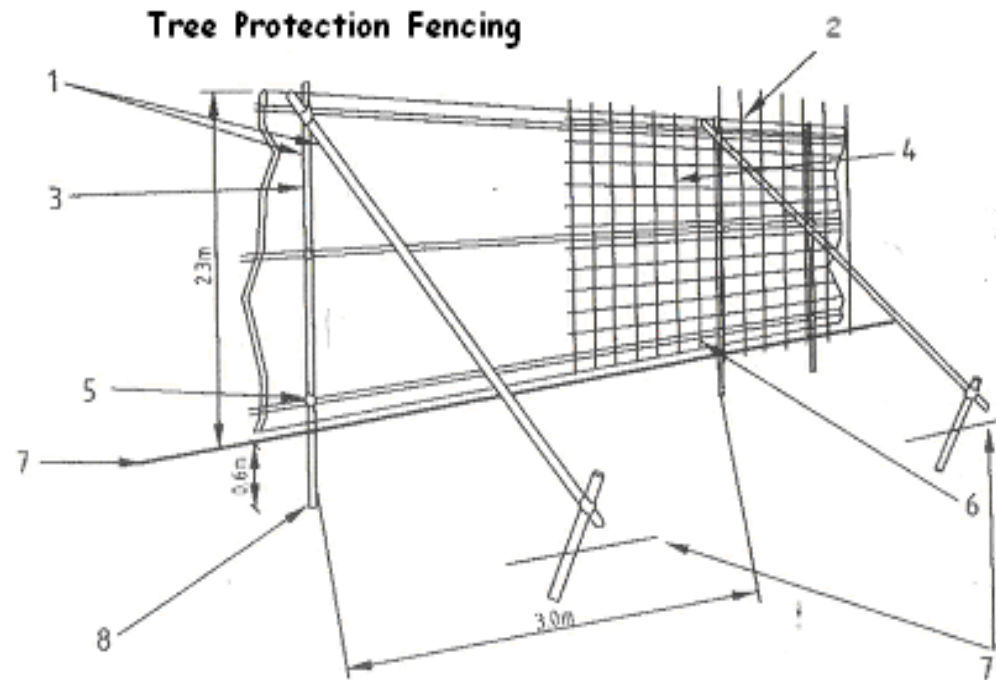
- Following the Local Authority meeting and the installation of tree protection fencing construction work can commence.

5.5 Landscape Works

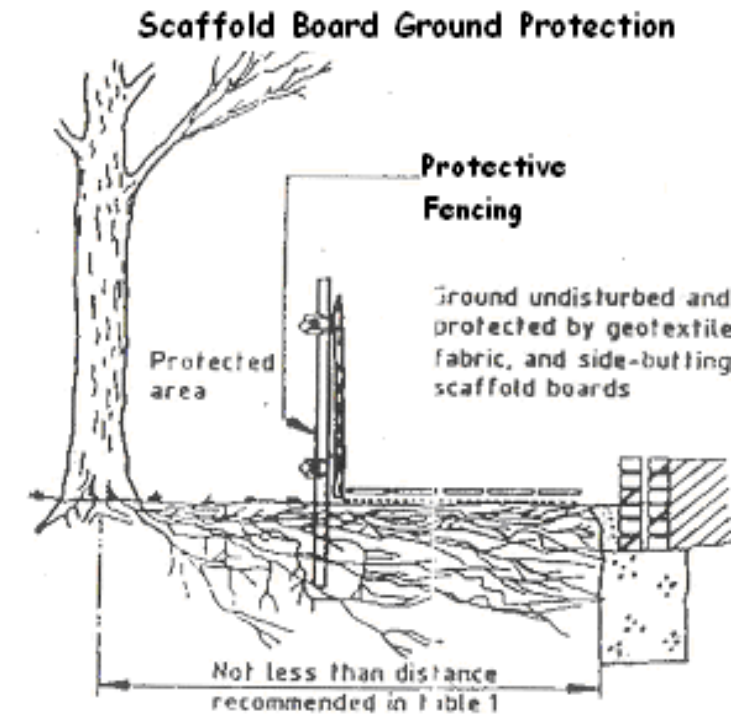
- On completion of construction works the landscaping works in the form of new tree planting be undertaken. See appendix B for location of the planting works.

6.0 Appendix A – Tree Protection Details (Plan 4A)

Extract from BS5837



- 1) Standard Scaffold Poles
- 2) Uprights to be driven into the ground
- 3) Panels secured to uprights with wire ties
- 4) Weldmesh
- 5) Standard clamps
- 6) Wire twisted and secured on inside of fence
- 7) Ground level
- 8) Approx 0.6m into the ground



7.0 Appendix B – Landscape Works (Plan 5A)

