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Arboricultural Report

Additional Parking Courts
George Street
Broughton
North Lincolnshire
DN20 0LE

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Client Contact

BSB Architecture
The Deep Business Centre,
Tower Street,
Kingston upon Hull,
HU1 4BG

Contents

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 at George Street, Broughton. The development proposals are for the construction of additional car parking spaces.

1.2 The arboricultural survey was commissioned by BSB Architecture and is linked to the design work undertaken by them as architects 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 PLANS

2.1 Location Plan (Plan 1A)

2.2 Site Plan – (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 Tree and Hedge Schedule

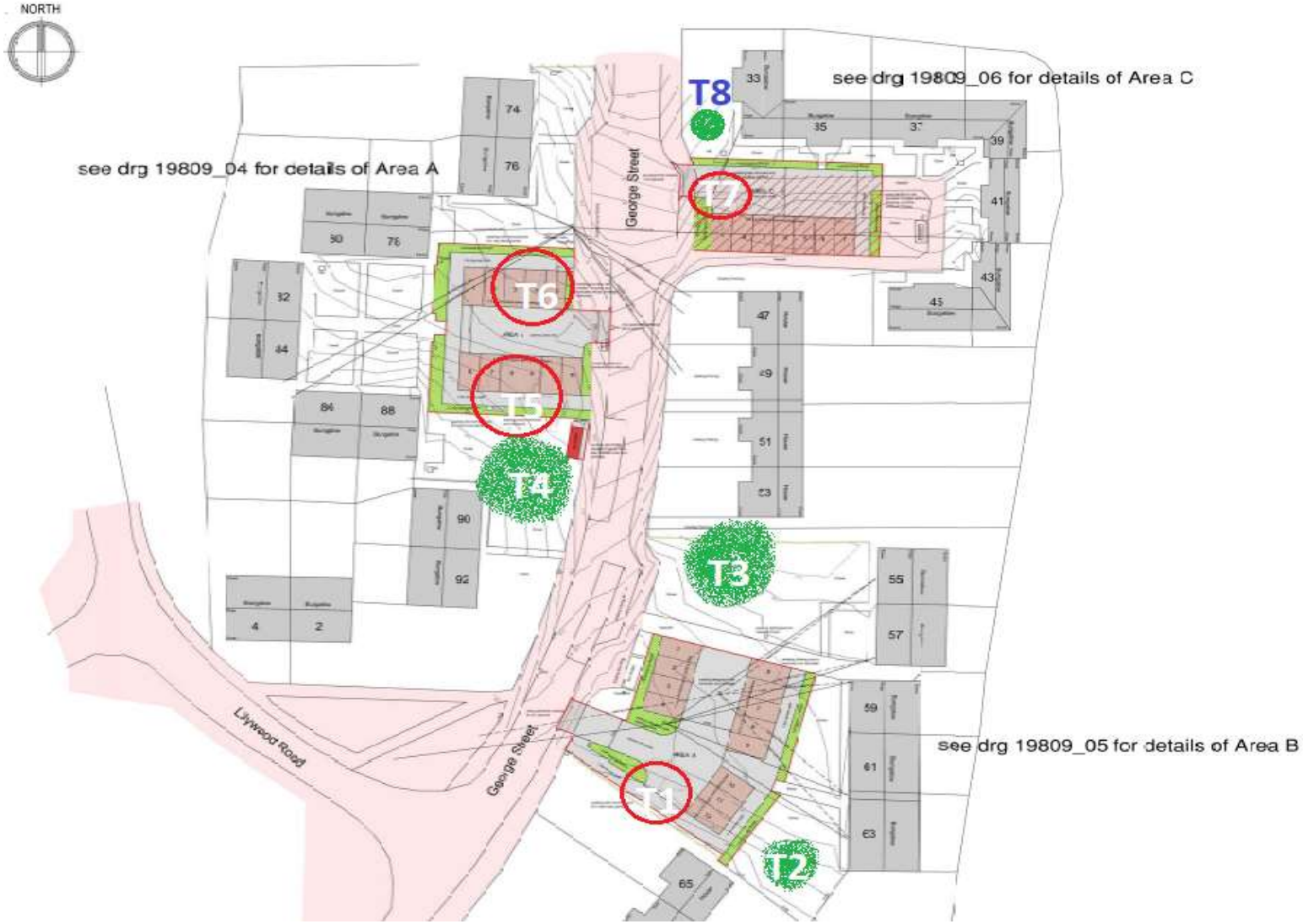
Note - The root protection areas (RPA) are listed as a radius in metres, below the stem diameter in the schedule below.

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	Cherry	5m	310 3.7m	4m	2m	M	Good	Good	Remove for development	30+	C2
T2	Rowan	7m	220 2.6m	2m	2m	M	Fair	Fair	No action	30+	C2
T3	Rowan	12m	410 4.8m	5m	1m	M	Good	Good	No action	30+	C2
T4	Sycamore	12m	430 5.1m	3m	3m	M	Good	Good	No action	40+	B2
T5	Sycamore	14m	390 4.7m	4m	2m	M	Good	Good	Remove for development	40+	B2
T6	Silver birch	16m	340 4.1m	4m	2m	M	Good	Good	Remove for development	30+	B2

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	Crab Apple	8m	280 3.3m	3m	1m	M	Good	Good	Remove for development	20+	C2
T8	Hawthorn	7m	369 4.3m	3m	2m	M	Good	Good	No action	30+	C2

4.0 ARBORICULTURAL IMPLICATIONS ASSESSMENT

4.1 Proposed Development (Plan 2A)

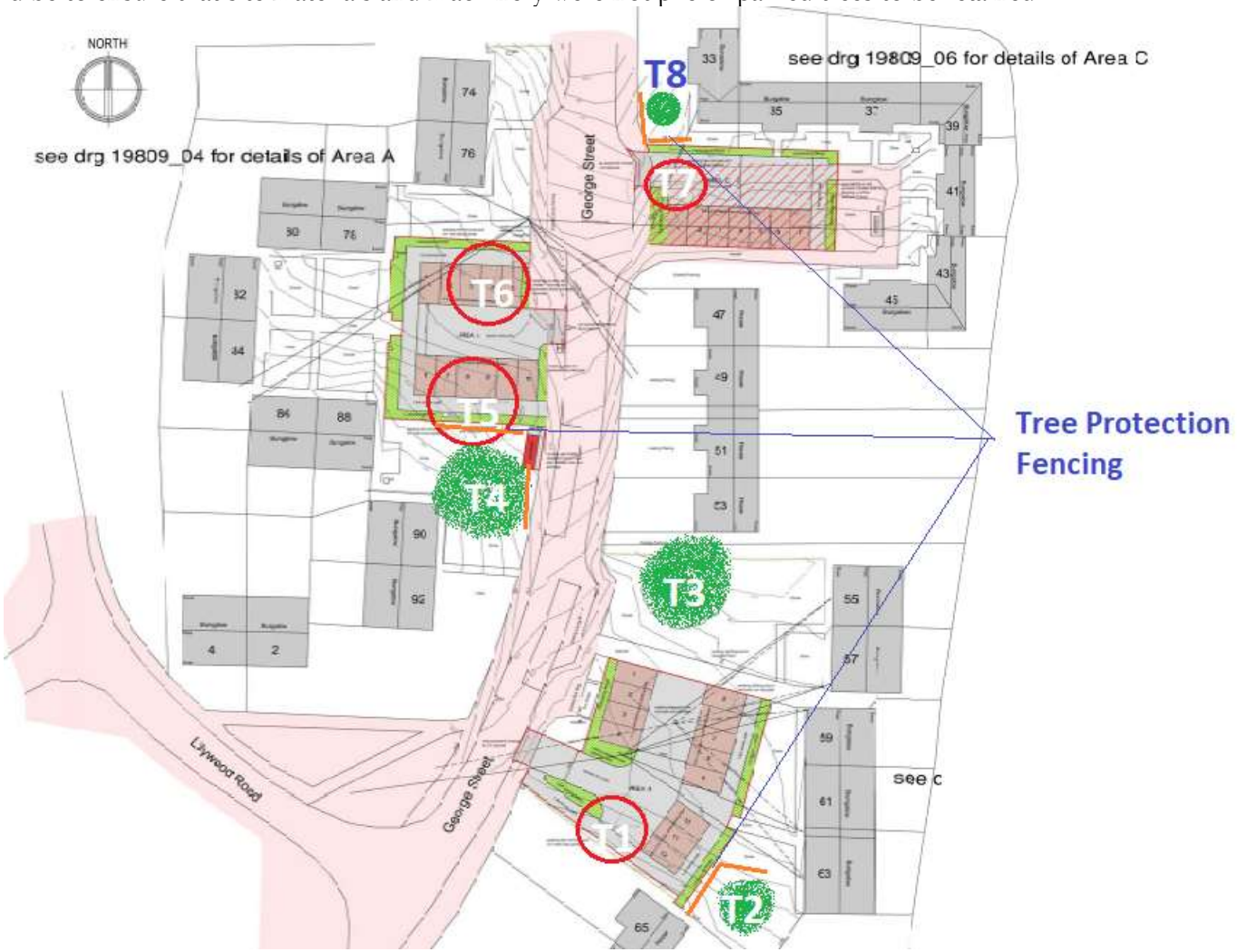


4.1 General Comments

The proposals are for the creation of 3 new car parking courts to provide additional car parking on the estate which is no doubt also in locations more accessible to properties and with vehicles off the main highway. Trees T1 and T7 are of low quality, with trees T5 and T6 of higher landscape quality. However, it would not seem possible to create the car parking space without the loss of these trees and no doubt on balance for the residents the parking is more desirable. The estate would still have the benefit of other mature trees and some new trees could also be planted as replacements within the locality.

5.0 TREE PROTECTION MEASURES (Plan 3A)

Given the distance between the remaining trees and the development tree protection measures in the form of tree protection fencing is perhaps unnecessary in this situation. However, if required it could be provided by the sections of fencing shown on the plan below. The main purpose of such fencing would be to ensure that site materials and machinery were not pile or parked trees to be retained.



6.0 ARBORICULTURAL METHOD STATEMENT (AMS)

6.1 General Site Management Constraints

- No soil stripping, compaction, excavation or removal is to take place other than for the foundations, surfacing, services and drainage for the proposed car parking bays.

6.2 Local Planning Authority Meeting

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

6.3 Tree Removal and Site Clearance

- Trees T1, T5, T6 & T7 to be removed.

6.4 Erection of Tree Protection Fencing

- Tree Protection Fencing, if required, to be erected as indicated on the Tree Protection Plan (plan 3A) and as detailed in Appendix A. Notices to be erected on the fencing at 5m intervals stating 'Tree Protection Fencing - Do not remove'.

6.5 Construction Work

- Once the tree protection measures are in place then construction work can commence.
- Services for the development are to be located as indicated on the plans with the service runs agreed with the architect and service providers before any excavation work commences. No services to be located within the root protection areas of the trees.
- No site materials to be stored within the fenced tree protection areas.

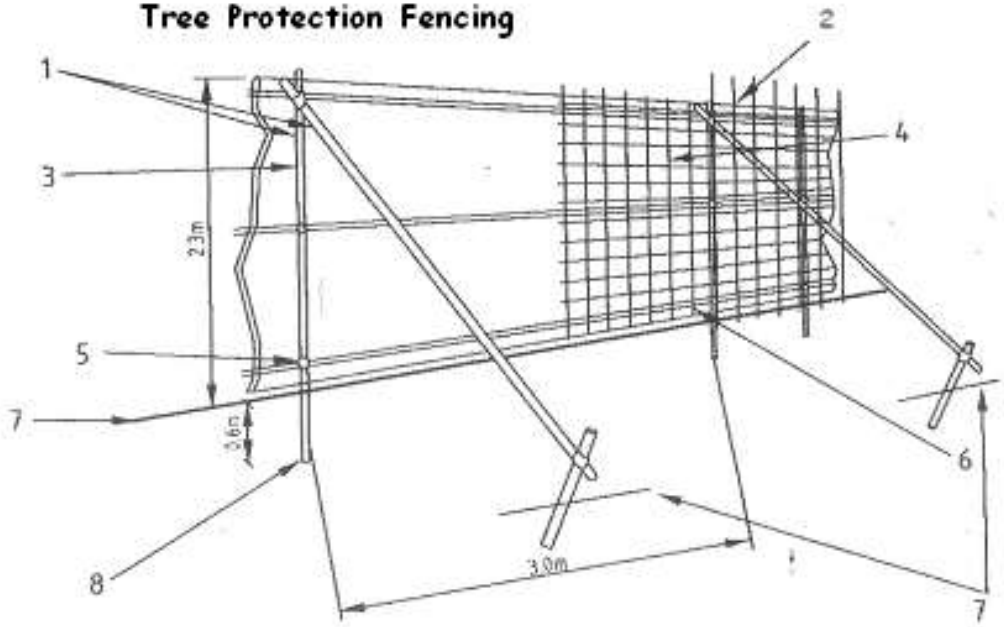
6.6 Completion of work.

- On completion of the construction work the tree protective can be removed.
- Ground preparation may be required and could include light cultivation of the surface of the soil to enable seeding or turfing. Such light cultivation would not exceed 5cm and therefore have no impact on the existing trees.

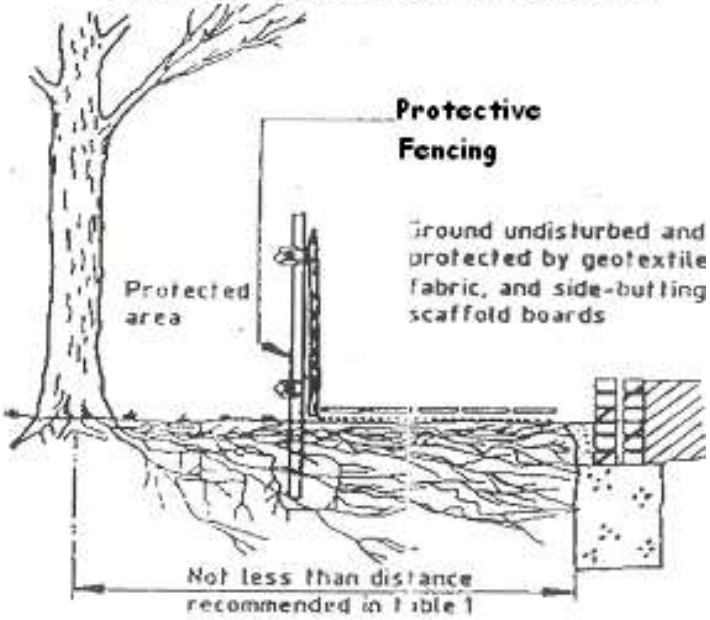
7.0 Appendix A – Tree Protection Details

Extract from BS5837

Tree Protection Fencing



Scaffold Board Ground Protection



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