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**Arboricultural (ver 6)**

Church Lane

Keyingham

East Riding of Yorkshire

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**Client Contact**

C.C.F.D Hull Ltd

46 Hemble Way

Hull

HU7 3ET

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## 1.0 INTRODUCTION

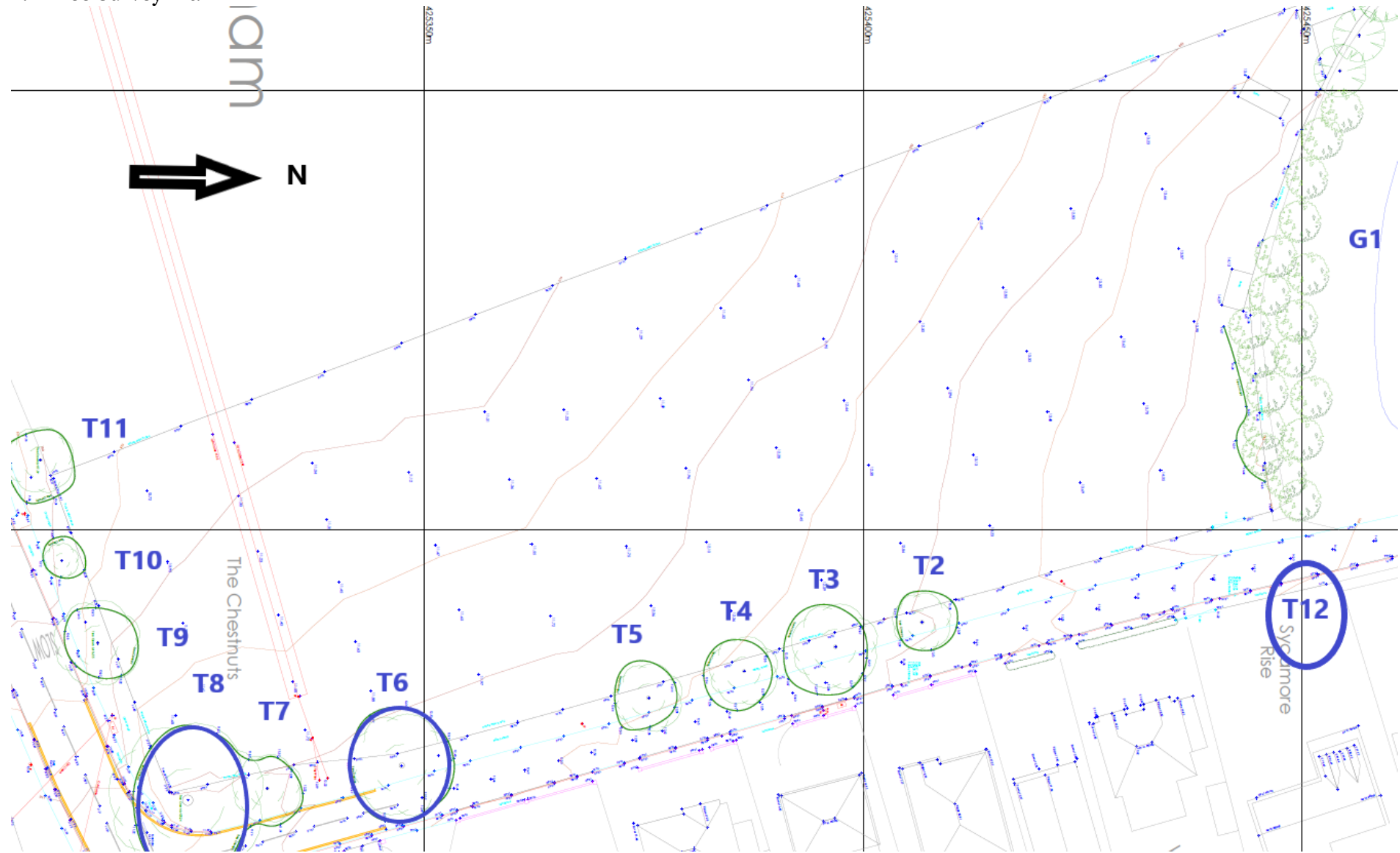
- 1.1 This report provides information in accordance with British Standard 5837:2012 'Trees in Relation to Design, Demolition and Construction' for a proposed development at the Church Lane, Keyingham, East Riding of Yorkshire. The proposal is for the construction of a residential properties.
- 1.2 The arboricultural survey was commissioned by C.C.F.D (Hull) Ltd 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. The root protection area (RPA) is provided as a radius from the trunk and listed below the stem diameter.
  - 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 1A



## 2.2 Tree Survey 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 using a diameter tape measure.
- 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, Dead).
- 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 presented below the stem diameter as a radius)

Tree no	Species	Height	Stem Dia RPA	Branch Spread	Crown Height	Age Class	Physiological Condition	Structural Condition	Preliminary Management Recommendations	Useful life Expectancy	Category Grading
G1	Mixed trees and shrubs	6m to 18m	300e 3.6m	4m	1m	M	Fair	Fair	<b>No action</b>  Weeping ash, Crab apple , elderberry, ash, willow, cypress	40+	C2
T2	Red Chestnut	10m	310 3.7m	3m	2m	M	Fair	Fair	<b>No action</b>	20+	C2
T3	Red Chestnut	12m	420 5.0m	4m	2m	M	Fair	Fair	<b>Remove for development</b>	20+	C2
T4	Red Chestnut	10m	280 3.3m	4m	2m	M	Fair	Fair	<b>Remove for development</b>	20+	C2
T5	Red Chestnut	10m	300 3.6m	4m	2m	M	Fair	Fair	<b>No action</b>	20+	C2
T6	Horse Chestnut	16m	560 6.7m	6m	2m	M	Fair	Fair	<b>No action</b>	40+	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	Red Chestnut	9m	230 2.7m	3m	2m	M	Fair	Fair	No action	20+	C2
T8	Horse Chestnut	21m	1160 13.9m	7m	3m	M	Good	Fair	No action	40+	B2
T9	Red Chestnut	6m	260 3.1m	3m	2m	M	Fair	Fair	Remove for development	20+	C2
T10	Weeping willow	4m	200e 2.4m	2m	-	M	Good	Fair	No action	40+	C2
T11	Horse Chestnut	12m	340 4.1m	4m	2m	M	Fair	Fair	No action	40+	C2
T12	Sycamore	15m	600e	7m	2m	M	Good	Good	No action Tree on adjacent land See Appendix F	40+	C2



## 4.0 ARBORICULTURAL IMPLICATIONS ASSESSMENT

### 4.1 Proposed Layout (2A)



## 4.2 Constraints Plan (2B)





### **4.3 Root Protection Measures**

#### **Tree Removal**

Three of the small red chestnut trees (T3 and T4) on Church Lane and one (T9) on Hull Road are proposed to be removed due to the proximity of the access drives and footpath. The trees are not the best specimens and a replacement planting scheme is proposed to maintain trees in the street scene.

#### **Work within the Root Protection Areas**

The access driveways intrude very slightly into the root protection areas for trees T4, T5 and T6. However, the intrusions are very minor and given the quality of the trees this is not a concern, It is considered better to retain them than remove.

The pumping station is also close to trees T10 and T11, but in both instances the degree of intrusion is very small and the quality of the trees is low.

The key amendment from the previous schemes is that the main tree on the site T8 is now unaffected by the development proposals.

#### **Tree Protection – Fencing and Scaffold Boarding**

Tree protection fencing and scaffold board ground protection is considered necessary during construction. Details are shown on the Tree Protection Plan (3A) appendix A and details of the fencing in appendix B.

### **4.4 Construction and Storage Space**

Adequate space exists for construction work and for the supply and storage of materials utilising the driveways and garden areas.

## **5.0 ARBORICULTURAL METHOD STATEMENT (AMS)**

### **5.1 General Site Management Constraints**

- No soil stripping, excavation, compaction or removal is to take place other than for the foundations, drainage and services of the proposed dwellings.

### **5.2 Local Planning Authority Meeting**

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

### **5.3 Removal of Existing Trees**

- Trees T3, T4 and T9 to be removed.

### **5.4 Erection of Tree Protection**

- Tree protection works are illustrated on plan 3A. See appendix A and B for further details. The fencing and to be erected prior to any demolition work and to remain in place during construction work. The tree protection fencing to be signed 'Tree Protection Fencing do not remove' during development work.

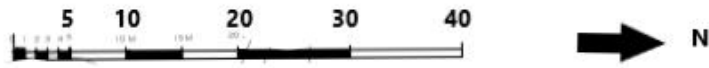
### **5.5 Construction Work**

- With the tree protection in place the construction work can commence.
- The low invasive driveway for plot 2 to be implemented to base course level prior to the construction of the building.
- 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 site materials to be stored within the tree protection area.

### **5.6 Completion of work**

- On completion of the construction work the tree protection measures can be removed.
- Landscaping to be undertaken including the planting of replacement trees and hedging.

# Appendix A – Tree Protection Plan (Plan 3A)



Root Protection Areas

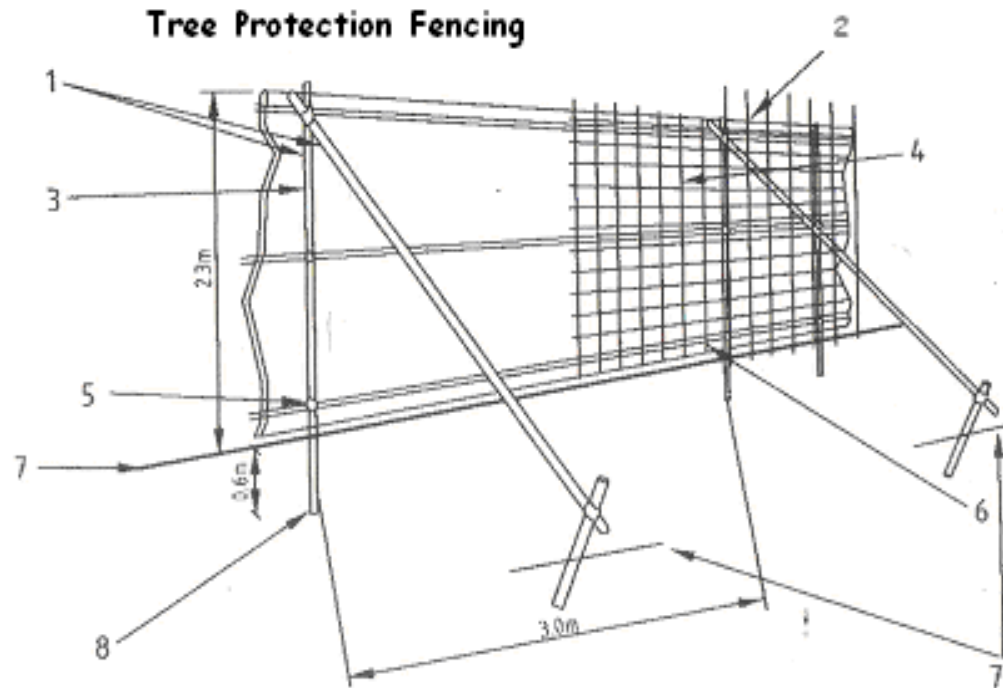


Tree Protection Fencing

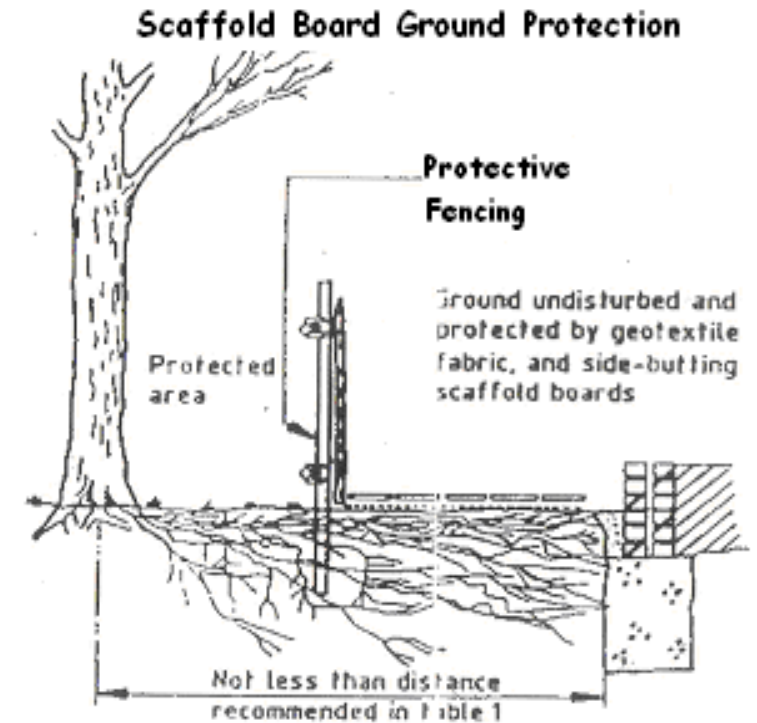


## Appendix B – Tree Protection Details

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





## Appendix C – Site Photograph



# Appendix D Draft Landscape Plan





## Appendix E – Tree Preservation Order

A sycamore tree on the eastern side of Church Lane is the subject to a Tree Preservation Order. This tree would be unaffected by the development with the road, footpaths and kerbs acting as a barrier to the roots of the tree. The crown bias of the tree is also to the east, away from the proposed site as illustrated in the photograph below.

