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arboricultural consultants



Location:
**Robin Hoods Farm
Brompton On Swale**

Report Type:
**Arboricultural Method Statement
Tree Protection Plan**

Ref:
ARB/AE/1262

Date:
March 2020

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1 Introduction

- 1.1 This report has been prepared by Andrew Elliott of Elliott Consultancy Ltd on behalf of the applicant. It will provide details regarding the retention and protection of trees during the re-development of the site.
- 1.2 Elliott Consultancy Ltd has previously provided arboricultural information regarding this site including survey, tree constraints plans, and arboricultural impact assessment.
- 1.3 **Scope of the report:**
- This method statement provides arboricultural information and advice in relation to the proposed construction of new residential dwellings as shown within Appendix 8.
 - It will outline trees to be removed prior to construction (Appendix 2) and those to be retained. Also provided are details of all measures recommended for adequate tree protection including any special construction measures to be utilised.
 - It should be used to guide the construction process in order to minimise potential damage to retained trees.
 - It will also detail, within the Arboricultural Tasks Sequence Table (Appendix 1), a timescale for implementation of these tree works and protective measures in reference to the development period.
- 1.4 **Prior to site works commencing this Arboricultural Method Statement needs to be passed to the site manager and used as reference during the development period.**

2 Site Information

- 2.1 The site is bordered to the north and east by other residential properties, to the southwest by Gatherley road, and to the southeast by the access road and roundabout to Stephenson Road. The site is currently dominated by a large residential property and the old farm buildings adjacent to Gatherley Road, and areas used for grazing. Figure 1 shows the extent of the area surveyed.



Figure 1: Area surveyed highlighted

- 2.2 Tree cover within the site consists of generally mature trees located at the northwest corner alongside Gatherley Road, and at the northeast corner where there is a group of mature trees on adjacent land. Several new plantings of young trees were noted across the site with some young specimen trees planted at the side of the dwelling access driveway.

3 Tree Protection Measures Pre-Construction

- 3.1 Refer to Appendix 1 for stage specific tasks.
- 3.2 Further to any additional site works commencing, the following arboricultural specific actions need to be implemented:
- a) An arboricultural contractor should be sought and the tree works recommended within Appendix 2 undertaken.
 - b) Stumps: Where stumps require removal they should be ground out where possible to below ground level – this is particularly important where they are located within the root protection areas of adjacent retained trees. Where complete removal is necessary, roots will require severance or separation from retained neighbouring tree and hedgerow roots prior to extraction – this can be achieved by severing all of the subject stump root tissue in the top 0.5m of soil (this must only be done outside of the root protection areas of adjacent retained trees), following this stumps can be extracted carefully - monitoring for any deeper root connections starting to cause soil disturbance near retained trees - these roots can then also be severed if encountered.
- 3.3 Once the aforementioned tasks have been completed and prior to any site work the tree protection barriers need to be erected in order to protect the trees and the soil structure from damage; this must remain in situ during the entire build process.
- 3.4 The fencing needs to be erected according to the locations found on the Tree Protection Plan (Appendix 8). The fence should conform to the specification within Appendix 3. All weather notices should be attached to the fencing marked with the following: '*Construction Exclusion Zone - Keep Out*' (a notice is provided within Appendix 4).
- 3.5 Construction material storage and site offices must be confined to an area identified outside of all root protection areas, and agreed with the local authority as acceptable.

3 Tree Protection Measures Pre-Construction (cont)

- 3.6 At the beginning of the construction phase, the site manager will appoint a delegated site representative who shall be responsible for continued checking of the protective fencing to ensure it is compliant with the exclusion zone. A Tree Protection Check recording sheet is included at Appendix 5 which should be completed on a weekly basis.

4 Tree protection measures during development

- 4.1 Refer to Appendix 1 for stage specific tasks.
- 4.2 All ground levels where trees are located should be maintained. Changes to soil levels adjacent to trees can severely affect the trees structural integrity and its ability to gain moisture and nutrients from the surrounding soil. Unavoidable level changes that may affect retained trees, and not already accounted for within this method statement, should be assessed by a qualified arboriculturalist so that special construction techniques can be considered.
- 4.3 Building material storage or operations that can contaminate soil, i.e. cement mixing, must be confined to areas outside the construction exclusion zone.
- 4.4 Fires should not be lit within 5m of the foliage or drip line of the tree. Care should be taken and the fire should not be allowed to become large, and the wind direction noted.
- 4.5 The trees should not be used to attach notices, cables or other services.
- 4.6 The installation of any underground services near or adjacent to trees on the site shall conform to the requirements of National Joint Utilities Group publication Volume 4 (November 2007).
- 4.7 If at any point within construction, access into root protection areas becomes necessary, ground protection must be used. The project Arboriculturalist should be informed for further advice.
- 4.8 **N.B. Ground protection when constructing driveway and turning head in tree root protection areas (RPA's):** Areas shown within Appendix 8 (hatched orange) where surface hardening is required within retained tree RPA's should be undertaken by hand and where possible using minimal excavation and permeable wearing layers. Where Unit 13's driveway is constructed this should utilise either a no-dig type construction or preferably a minimal excavated permeable surfacing such as KBI Systems 'flexi-pave' or similar. If such construction cannot be utilised to the south of Unit 1, then minimally excavated block paver type surfacing could be utilised if installed by hand and without necessity for heavy machinery.

5 Post-Construction Considerations

- 5.1 Refer to Appendix 1 for stage specific tasks.
- 5.2 Only once all construction works have been completed, or following the installation of permanent boundary fencing that essentially fulfils a similar role, can the protective fencing and any ground protection be removed.
- 5.3 Since trees are capable of influencing soil hydrology newly planted trees need to be situated where they will not interfere with built structures. Refer to NHBC Chapter 4.2 'Building near Trees' and Arboriculture Research and Information Note 'Tree Roots and Foundations' for further information.
- 5.4 Post development landscaping should be kept to a minimum within the root protection areas of retained trees. No ground excavation or mechanised ground treatments / rotavation will be undertaken within the protected areas, with all landscaping being undertaken by hand or with hand operated machinery.

Appendix 1: Arboricultural Tasks Sequence Tables

Tree or Group Number	Pre-Demolition & Construction Stage	Construction Stage	Post Construction Stage
Trees 2, 5, 27, 30, 32, 43, & 44.	Fell to enable the development		
Trees 20, 26 & 28.	Prune back lower overhanging foliage to allow construction space and access.		
Trees 34-37, & 39.	Crown-lift to 2.5-3m where appropriate to provide clearance to new access driveway.		
Retained Trees	<p>Adhere to specification within Section 4.</p> <p>Set out and erect protective fencing as per Appendices 3 and 8. Attach notice in Appendix 4.</p>	<p>Adhere to specification within Section 5.</p> <p>Monitor integrity of Construction Exclusion Zone.</p>	<p>Adhere to specification within Section 6.</p> <p>Remove tree protection measures.</p>

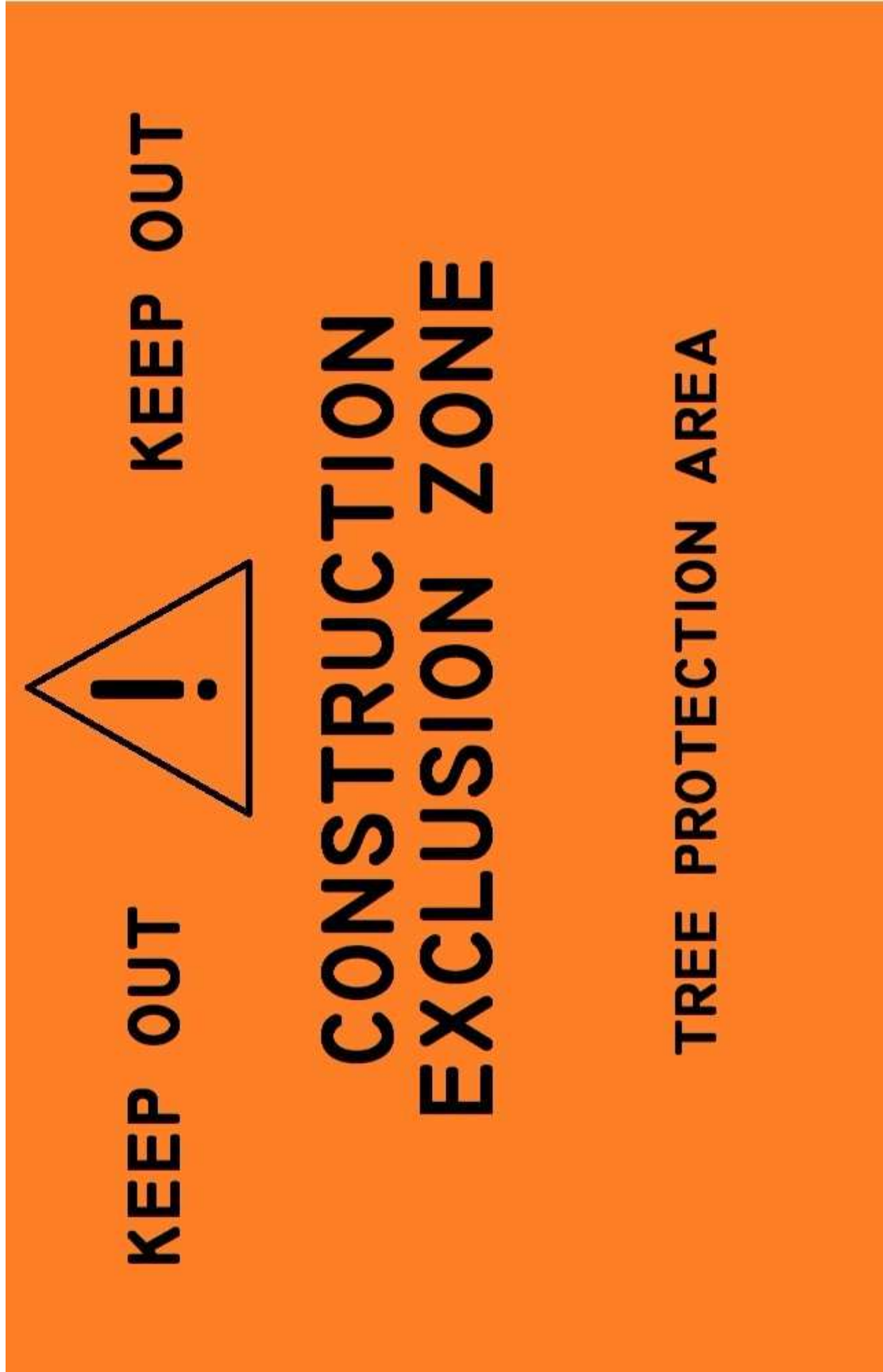
Appendix 2: Tree Works Required

- **Fell:** Trees 2, 5, 27, 30, 32, 43, & 44.
- **Prune:** Trees 20, 26 & 28. - Prune back lower overhanging foliage to allow construction space and access.
- **Prune:** Trees 34-37, & 39 - Crown-lift to 2.5-3m where appropriate to provide clearance to new access driveway.

Appendix 3: Protective Fencing Specification



Appendix 4: Construction Exclusion Zone Notice



Appendix 5: Tree Protection Inspection Schedule

Tree Protection Zones Inspection Record – assessment of tree protection barriers and ground protection			
Date	Checked By	Comments	Action Required?

Appendix 6: Contact Details of Relevant Parties

Arboricultural Consultants

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Appendix 7

Drawing Title: Tree Removals Plan

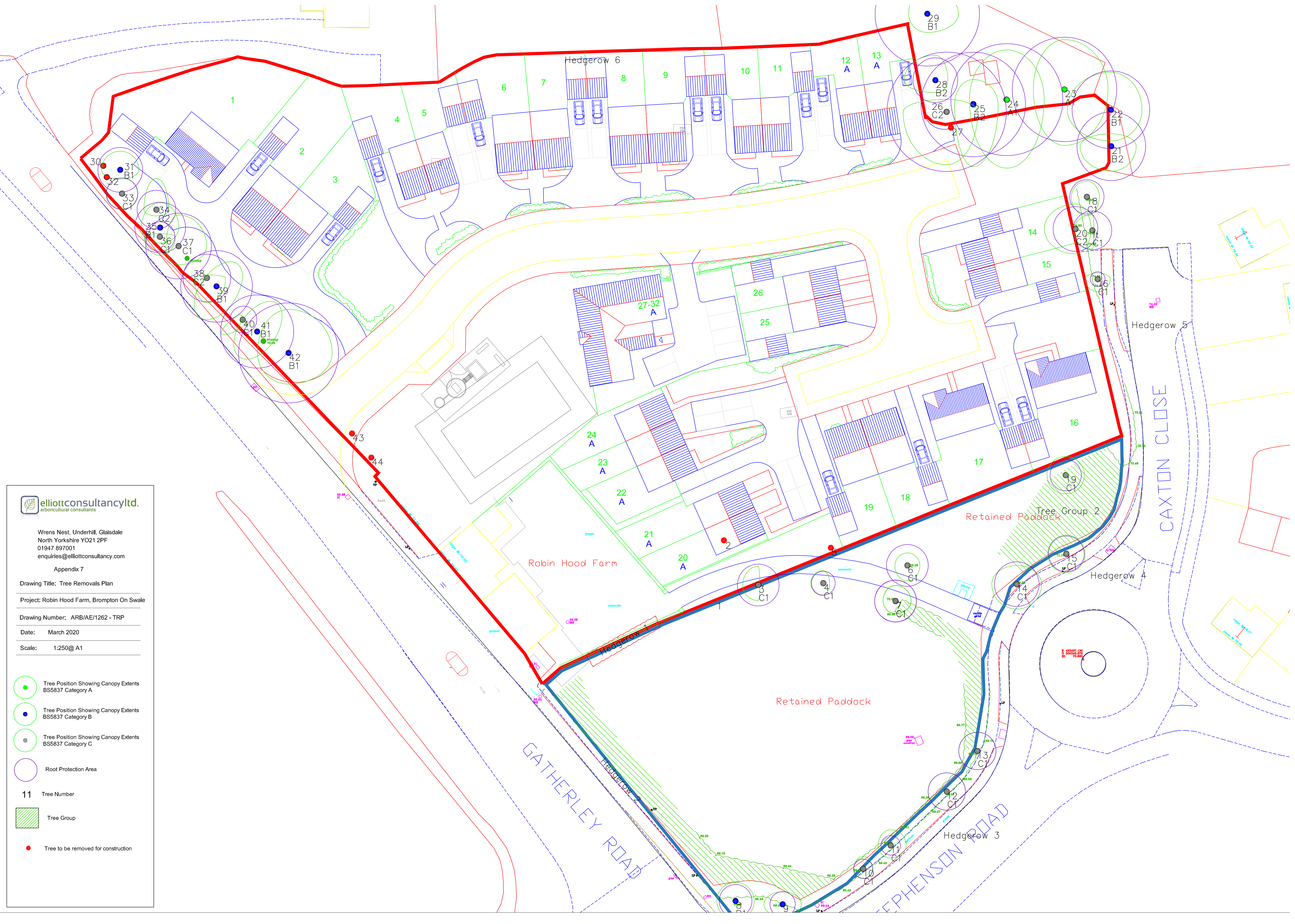
Project: Robin Hood Farm, Brompton On Swale

Drawing Number: ARB/AE/1262 - TRP

Date: March 2020

Scale: 1:250@ A1

- Tree Position Showing Canopy Extents BS5837 Category A
- Tree Position Showing Canopy Extents BS5837 Category B
- Tree Position Showing Canopy Extents BS5837 Category C
- Root Protection Area
- Tree Number
- Tree Group
- Tree to be removed for construction





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Appendix 8

Drawing Title: Tree Protection Plan
Project: Robin Hood Farm, Brompton On Swale
Drawing Number: ARB/AE/1262 - TPP
Date: March 2020
Scale: 1:250@ A1

- Tree Position Showing Canopy Extents BS5837 Category B
- Tree Position Showing Canopy Extents BS5837 Category C
- Root Protection Area
- 11** Tree Number
- Tree Group
- Tree Protection Fence
- Special Ground Protection
- Construction Exclusion Zone

