



## Chestnut Avenue, Eastleigh SO50 5EL

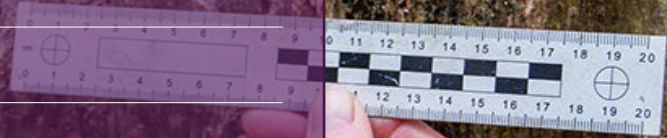
### Arboricultural Impact Assessment

June 2023

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**TPO**

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| Document Revision Record |           |                      |
|--------------------------|-----------|----------------------|
| Issue No                 | Date      | Details of Revisions |
| 1                        | June 2023 | Original issue       |
|                          |           |                      |
|                          |           |                      |
|                          |           |                      |

## Chapter 1 Introduction

### 1.01

ACS Consulting is instructed by WHP Telecoms Ltd to report on trees and the implications for the proposed development on the highway verge at Chestnut Avenue, Eastleigh SO50 5EL. The assessment and report was undertaken by Ian Murat, Registered Consultant of the Arboricultural Association.

### 1.02

In accordance with guidance on information requirements and validation for planning applications, this report fulfils the recommended national list criteria for tree survey/arboricultural information. More specifically, it contains the following:

- A full tree survey to the requirements of BS5837 (2012) Trees In Relation To Design, Demolition and Construction – Recommendations.
- A plan showing tree survey information, retention categorisation and root protection areas,
- An assessment of the arboricultural implications of development detailing trees to be retained/removed and appropriate protection measures,
- An Arboricultural Method Statement detailing a set of agreed principles for tree protection, implementation and phasing of works.

### 1.03

The site was visited during May 2023. A survey of the trees was completed recording; species type, age, height, crown spread, diameter-at-breast-height and, condition.

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## Chapter 2 Background

### 2.01 Location

The site is located to the south east of Eastleigh town centre. (Figure 1).

### 2.02 The Application Site

The site comprises a grassed verge within the highway estate. The tree is located in the grounds of Crestwood Community School (Cherbourg Campus).

### 2.03 Statutory Protection/Planning Policies

The application is subject to the planning policies of Eastleigh Borough Council. The application site is not located in a Conservation Area. The tree is not the subject of a Tree Preservation Order.

### 2.04 Soils

BS 5837 – 2012 requires a basic assessment of the soils on site. An examination of the British Geological Survey records the superficial deposits as: River Terrace Deposits, 1 - Clay and silt. Sedimentary superficial deposit formed between 2.588 million years ago and the present during the Quaternary period.

The Cranfield Soil and Agrifood Institute Soilscape viewer shows soils at the site to be: Freely draining slightly acid loamy soils.



**Figure 1**

## Chapter 3 Tree Survey

### 3.01

The tree data can be found at Appendix A. There is no requirement in BS 5837 to repeat the details of the constraints information save for confirming that the trees were surveyed for species type, age, height, crown spread, diameter-at-breast-height, condition, and their suitability for retention from ground level. Each tree or group was assigned to one of the four retention categories [A,B,C,U] specified by BS5837. The individual descriptions and other relevant information are contained in the attached schedule and they are shown on the attached plans, based on the original topographical survey. Only trees with a stem diameter of 75 millimetres measured at 1.5 metres above the ground are required to be recorded.

### 3.02

The height was measured with a digital Hypsometer and the diameter taken with a diameter tape to give an average stem measurement. Canopy spreads have been measured at the cardinal points or where they significantly extend in other directions



**Figure 2**

## Chapter 4 Development Implications

### 4.01 Application

The application is for: Proposed Phase 8 monopole. The monopole will be 15.0 metres AGL.

### 4.02 Development Implications

The cabinets and mast are located in the small grassed area at the back of the footpath. The proposal does not require the felling of trees. The proposal is located outside the Root Protection Area (RPA) and canopy of a sweet chestnut located in the grounds of the school.

Overall, the impact of the installation of the cabinet base is not considered wholly detrimental to the retention of the tree. The Method Statement at Appendix B details the precautions to be taken.

## Chapter 5 Conclusions

### 5.01

The application site is described in detail in the design and access statement.

### 5.02

The development, in terms of trees, retains the site's principal arboreal features with a good spatial relationship. The proposal, in terms of trees, does not result in the unacceptable loss or harm to features of landscape importance or amenity value. The method statement at Appendix B details the protection measures to be used.

### 5.03

A method statement is appended to demonstrate the scheme is feasible. Certain matters listed therein may alternatively be addressed satisfactorily by means of a condition(s). This requires detailed discussions with the LPA on the principle that conditions should always be used in the first instance as per government guidance and that contained in BS 5837 – 2012 Table B.1 Delivery of tree-related information into the planning system; the method statement fulfils the recommended criteria for arboricultural information.

# Appendix A

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## Contents

Key

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BS 5837 2012

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Tree data

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## KEY

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Age                     | <p>Y – Young: Out-planted trees that have not yet established</p> <p>SM – Semi-mature: Established trees up to 1/3 of expected height and crown</p> <p>EM – Early mature: Between 1/3 and 2/3 of expected height and crown</p> <p>M – Mature: Between 2/3 and full expected height and crown</p> <p>FM – Fully mature: Full expected height and crown</p> <p>OM – Over mature: Crown beginning to break-up and decrease in size</p> <p>S – Senescent: Crown in advanced stage of break-up</p> |
| Physiological Condition | <p>Good – Very few defects a reasonable long life expectancy depending on age class</p> <p>Fair – Some defects giving the tree a shortened life expectancy</p> <p>Poor – Limited life with major problems</p>                                                                                                                                                                                                                                                                                 |
| Structural Condition    | <p>Good – Very few defects</p> <p>Fair – Some defects rectifiable with minor tree surgery</p> <p>Poor – Significant defects rectifiable with major tree surgery or felling</p>                                                                                                                                                                                                                                                                                                                |
| #                       | Estimated dimensions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| (a)                     | Average stem diameter across a group of trees.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| *                       | Tree subject to TPO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

Table 1 – Cascade chart for tree quality assessment

| Category and definition                                                                                                                                                        | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                    |                                                                                                                                       | Identification on Plan |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>Category U</b><br><br>Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years. | <ul style="list-style-type: none"> <li>Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other U category trees (i.e. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning).</li> <li>Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline.</li> <li>Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality.</li> </ul> <p><i>NOTE Category U trees can have existing or potential conservation value which might be desirable to preserve; see 4.5.7</i></p> |                                                                                                                                                                                                                                                                    |                                                                                                                                       | RED                    |
|                                                                                                                                                                                | <b>1 Mainly arboricultural qualities</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>2 Mainly landscape qualities</b>                                                                                                                                                                                                                                | <b>3 Mainly cultural values, including conservation.</b>                                                                              |                        |
| <b>Trees To Be Considered For Retention</b>                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                    |                                                                                                                                       |                        |
| <b>Category A</b><br><br><b>Trees of high quality</b> with an estimated remaining life expectancy of at least 40 years                                                         | Trees that are particularly good examples of their species, especially if rare or unusual, or essential components of groups, or of formal or semi-formal arboricultural features (e.g. the dormant and/or principal trees within an avenue)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features.                                                                                                                                                            | Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture) | GREEN                  |
| <b>Category B</b><br><br><b>Trees of moderate quality</b> with an estimated remaining life expectancy of at least 20 years.                                                    | Trees that might be included in category A, but are downgraded because of impaired condition ( e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation.                                                                                                                                                                                                                                                                                                                                                                                                             | Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality. | Trees with material conservation or other cultural value.                                                                             | BLUE                   |
| <b>Category C</b><br><br><b>Trees of low quality</b> with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm.       | Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value, and/or trees offering low or only temporary/transient landscape benefits.                                                              | Trees with no material conservation or other cultural benefits                                                                        | GREY                   |

| Tree Ref No. | Species        | Height<br>M | Stem Diameter<br>MM | Branch Spread<br>M |   |   |   | Height of Crown Clearance<br>M | Clear Branch Height<br>M | Age Class | Physiological Condition | Structural Condition | Comments/Preliminary Management Recommendations                                                                 | Estimated Remaining Contribution Years | Category Grading |
|--------------|----------------|-------------|---------------------|--------------------|---|---|---|--------------------------------|--------------------------|-----------|-------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------|
|              |                |             |                     | N                  | E | S | W |                                |                          |           |                         |                      |                                                                                                                 |                                        |                  |
| 1            | Sweet Chestnut | 11          | #450                | 6                  | 6 | 6 | 4 | 2                              | 2                        | M         | Good                    | Good                 | Located in the school.<br>One of a linear group of trees.<br>A tree of high quality and value in the landscape. | 40+                                    | A1/2             |

# Appendix B

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## Contents

Method Statement

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## Arboricultural Method Statement

### Arboricultural Supervision

The general purpose is to ensure compliance with planning conditions. It is anticipated that arboricultural input is likely to be needed for the following operations:

- Pre-commencement meeting;
- Installation of Tree Protection fencing;
- Excavation/installation of services;
- Removal of protective measures.

All supervisory visits will be logged and a copy of the minutes circulated to all team members including the LPA. A number of the operations named above can be undertaken in a single visit.

The pre-commencement site meeting is to be held before any work is undertaken. All tree protection measures, haul routes, site storage, contractor parking, deliveries, working methods are to be freely discussed and agreed in writing. Initial site visits may be intense to ensure measures are implemented.

General site visits will be undertaken once the site is 'live' at intervals agreed with the team. Our role will be to initially to act in a compliance capacity to ensure the protective measures are fit for purpose and meet or exceed the council's requirements and the tree works are undertaken to the required standard. Once this has been completed, our role will be one of monitoring and 'troubleshooting'.

### Targets

- Pre-commencement site meeting to agree roles, responsibilities and duties in relation to tree protection. Details to be minuted and distributed.
- Appointment of an Arboricultural Consultant to oversee works.

# Arboricultural Method Statement

## Construction Exclusion Zone Root Protection

Due to the nature of the works, standard BS 5837 fencing will be used. The Construction Exclusion Zone fence will be heras fence panels fixed in place with braceblok™.

### Targets

- Fencing installed at locations shown on the plan (ARB/4908/Y/100) and marked on site.
- Fence fixed with braceblok™.
- Location and adequacy signed off by Arboricultural Consultant and LPA advised.
- Tool Box Talk – make construction staff aware of the importance of areas by site manager.
- Signs to be erected advising of the area's importance.



## Arboricultural Method Statement

### Foundation Excavation

#### Targets

- The works area is to be marked out.
- Soil tested to determine excavation method. Using either Hydro Vacuum & Suction Excavation, Pneumatic Vacuum & Suction Excavation or Clay-Spade Assisted Suction Excavation, a trench will be excavated.
- In all cases: Roots <25mm Ø are to be cut at the excavation face with secateurs. Roots >25mm Ø are to be assessed by the Arboricultural Consultant. Findings and decision on root retention/severance to be reported to the LPA.
- Exposed roots to be kept moist with hessian sacking/terram.
- Site inspections to be reported to the development team and the LPA.



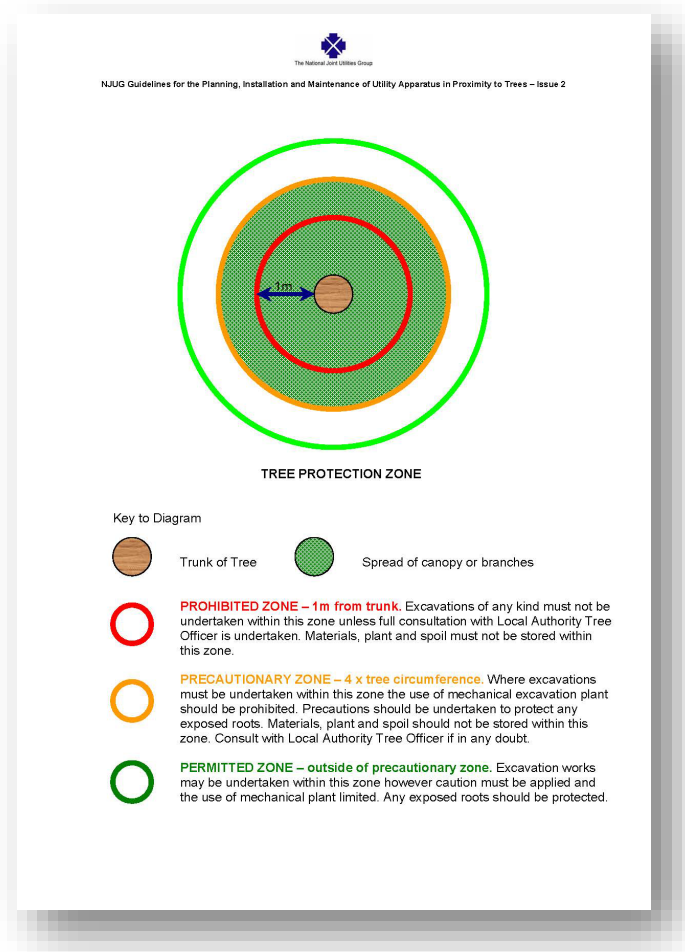
# Arboricultural Method Statement

## Services - NJUG 4.2

Work area to be marked out in accordance with NJUG 4.2.

## Actions

- The precautionary area is to be identified.
- Suitable method of service installation to be identified this may include Hydro Vacuum & Suction Excavation, Pneumatic Vacuum & Suction Excavation or Clay-Spade Assisted Suction Excavation.
- In all cases: Roots <25mm Ø are to be cut at the excavation face with secateurs. Roots >25mm Ø are to be assessed by the Arboricultural Consultant. Findings and decision on root retention/severance to be reported to the LPA.
- Exposed roots to be kept moist with hessian sacking/terram.
- Location and adequacy signed off by the ACoW and the LPA advised.
- Works to be monitored by ACoW.



## Arboricultural Method Statement

### General Precautions

The retention of trees requires a number of general precautions to be taken. Compliance is to be maintained on site by the Arboricultural Consultant. The site visits are detailed at criterion 1 – Timing of Works.

### Targets

- Spoil from the foundation pits or other excavations shall not be placed within the Construction Exclusion Zone.
- No materials, equipment, spoil or washout water may be deposited, stored or parked within the Root Protection Area/ Construction Exclusion Zone.
- On-site inspections to be undertaken by the Arboricultural Clerk of Works with the Arboricultural Consultant visiting during critical operations. The aim of the visits is to maintain on-going liaison with all personnel involved in the site development, Local Planning Authority and its Tree Officer.
- Any defects requiring rectification shall be notified to the Contractor/Site Manager/Arboricultural Consultant and the client.
- A site logbook for tree protection measures is kept to record all stages of the development from the erection of the protective fencing, right through to the completion of the project. This will be made available to the Arboricultural Consultant and the Local Planning Authority, if required, to show evidence of continuous site monitoring.

### Protection and Emergency Procedure/Contacts

Adherence to the method statement, appointment of the Arboricultural Consultant and their involvement, at the critical demolition and construction phases, should negate any incident. The contact page details those personnel who should be contacted if an incident involving a retained tree should take place.

### Targets

- Spill kit available.
- On site fuels to be located away from RPA/CEZ and contained in a bunded tank at 110% capacity.
- All incidents involving trees to be reported by telephone and email.
- Bunded storage of oil/fuels.
- Refuelling points for machinery at distance to the watercourse.
- Use of drop trays under plant/machinery overnight.
- Availability of spill kits on site – and training of site staff in their use.
- No excavation during periods of heavy rain.
- Regular maintenance and inspection of plant – engines and hydraulic systems.

## Arboricultural Method Statement

### Contact List

| Title                               | Name | Address | Telephone | Email |
|-------------------------------------|------|---------|-----------|-------|
| Arboricultural Consultant           | TBA  |         |           |       |
| Design                              | TBA  |         |           |       |
| Project Manager                     | TBA  |         |           |       |
| Arboricultural Consultant (Council) | TBA  |         |           |       |

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