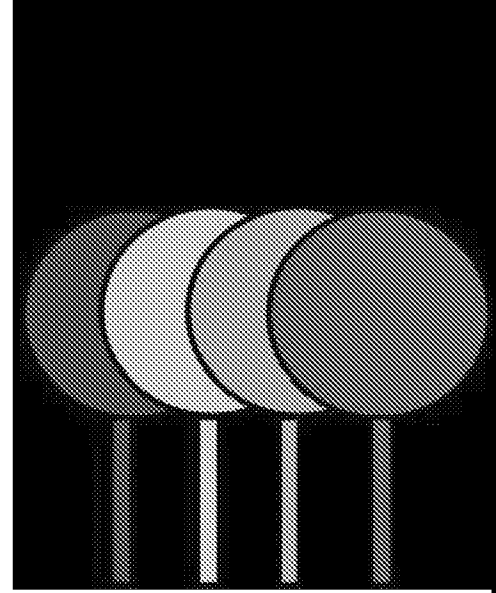




# Nicholas Jones Consultants Limited

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Independent Professional Arboricultural Consultancy

## Arboricultural Assessment and Method Statement

Site: Quiet Waters  
Roundstone Lane  
Angmering  
BN16 4AX

Prepared by: Nicholas Jones BSc. (Hons). MSc. M Arbor A

On behalf of: Gold (Angmering) Ltd

Date: 10<sup>th</sup> July 2018

Ref: NJCL 252

## Executive Summary

Nicholas Jones Consultants Limited were commissioned by Gold (Angmering) Ltd to prepare an arboricultural report to advise on the potential impacts of the proposed development upon the existing tree population located at Quiet Waters, Roundstone Lane, Angmering, BN16 4AX.

The proposed development includes the demolition of the existing single dwelling and construction of 30no. dwellings.

This report confirms that there are 51 trees proposed for removal to facilitate the proposed development.

The tree population in relation to the retention categories defined in British Standard 5837:2012 'Trees in relation to design, demolition and construction - recommendations' are provided in table 1 along with the quantities proposed for retention and removal.

|            | Total | Retained | Removed |
|------------|-------|----------|---------|
| Category A | 3     | 2        | 1       |
| Category B | 37    | 15       | 23      |
| Category C | 32    | 7        | 25      |
| Category U | 2     | 0        | 2       |

Table 1

Construction activity could potentially affect the retained trees. However, by implementing suitable protection measures and monitoring for the retained trees there is ample scope within the site for the construction process and associated activities required to facilitate the proposed development.

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## Validation Statement

This report contains supporting information regarding trees in relation to the proposed development at Quiet Waters, Roundstone Lane, Angmering, BN16 4AX.

For Local Planning Authority purposes this report contains the following elements:

- A tree survey in accordance with the guidance contained in British Standard 5837:2012 'Trees in relation to design, demolition and construction – recommendations'. The survey has been undertaken by a competent and qualified arboriculturist.
- A plan indicating a North point, at an appropriate scale and containing tree survey information and tree retention categories as defined in British Standard 5837:2012.
- An assessment of the arboricultural impacts of the proposed development and details of all trees to be removed or retained and any associated measures proposed for their protection.
- An Arboricultural Method Statement detailing the means of tree protection and any constraints posed on the implementation and phasing of work.

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## 1. Introduction

- 1.1 Formal details – My name is Nicholas Jones I am the Principal Arboricultural Consultant for Nicholas Jones Consultants Limited. I have 28 years' experience in the arboricultural industry with the past 18 years acting as a consultant; I hold a BSc (Hons) in Arboriculture and an MSc in Arboriculture and Urban Forestry awarded by the University of Central Lancashire. I am a Professional Member of both the Arboricultural Association and the Consulting Arborist Society and a Lantra accredited Professional Tree Inspector; giving advice to clients on a wide range of arboricultural and horticultural issues.
- 1.2 This report has been commissioned by Gold (Angmering) Ltd in order to advise on the following:
- The species, size and position of any trees within the area of the proposed development and within neighbouring and adjoining areas where trees may have some significance to the proposed development.
  - The maturity and condition of the trees surveyed with appropriate recommendations for action.
  - The impact of the proposed development upon the tree population in and around the site.
  - Specific measures required to protect retained trees during the development works and the ongoing monitoring of construction works to ensure that retained trees remain protected effectively.
- 1.3 The site was visited on 25<sup>th</sup> April 2018 and a survey carried out identifying and locating the relevant trees.

- 
- 1.4 Outline consent for the construction of 30no. dwellings on site has been granted under Planning Application A/132/17/OUT. An Arboricultural Impact Assessment and method statement was submitted in support of the outline application (Reference: RCo193/Quietwaters/Rev02 05.07.17) for ease of reference the tree numbers allocated within the original document have been maintained within this assessment.
- 1.5 This assessment deals specifically with the potential impacts of the amended layout and conditions attached the outline consent. Specifically, conditions 10 & 17.
- 1.6 An assessment of the trees in the vicinity of the proposed development has been made in line with the guidance provided in British Standard 5837:2012 'Trees in relation to design, demolition and construction Recommendations'.
- 1.7 The site is subject to a Tree Preservation Order administered by Arun District Council (Ref: TPO/A/1/17) which affords statutory protection to the trees numbered 25, 53, 54 and 59 within the survey.
- 1.8 This report should be read with reference to the following documents (Table 2):

| Originator                               | Drg/Document No                      | Title                                                    |
|------------------------------------------|--------------------------------------|----------------------------------------------------------|
| Ramsay & Co<br>Landscape<br>Architecture | RCo193/Quietwaters/Rev02<br>05.07.17 | Arboriculture Impact<br>Assessment & Method<br>Statement |
| Bedaro                                   | 1084 Ang101 E                        | Proposed Site Layout                                     |
| Nicholas Jones<br>Consultants<br>Limited | NJCL 252 A1                          | Tree Layout Plan                                         |
| Nicholas Jones<br>Consultants<br>Limited | NJCL 252 B1                          | Tree Removal Plan                                        |
| Nicholas Jones<br>Consultants<br>Limited | NJCL 252 C1                          | Tree Protection Plan                                     |

Table 2

1.9 The following technical references are made in this report (Table 3):

| Originator                  | Title/Reference                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------|
| British Standards Institute | 5837:2012 Trees in relation to<br>design, demolition and construction -<br>Recommendations |
| British Standards Institute | 3998:2010 Recommendations for<br>Tree Works                                                |

Table 3

1.10 The following abbreviations may be used throughout this report (Table 4):

| Terminology                                                                                                | Abbreviation |
|------------------------------------------------------------------------------------------------------------|--------------|
| Tree Preservation Order                                                                                    | TPO          |
| Arboricultural Method Statement                                                                            | AMS          |
| British Standard 5837:2012 – Trees in relation to design,<br>demolition and construction – Recommendations | BS5837       |
| Tree Protection Plan                                                                                       | TPP          |
| Root Protection Area                                                                                       | RPA          |
| Construction Exclusion Zone                                                                                | CEZ          |
| Tree Protection Fencing                                                                                    | TPF          |
| Local Planning Authority                                                                                   | LPA          |

Table 4

## 2. Arboricultural Impact Assessment

- 2.1 Development proposals can impact on trees by requiring their removal or by adversely affecting their longevity through disturbance to their rooting environment or the impact of severe pruning. In many cases however it is possible to reduce the levels of disturbance by implementing precautionary measures and by adopting appropriate working practices.
- 2.2 An assessment of the trees affected by the proposed development is summarised in Table 5 below. Full details of all the trees assessed are provided in the tree survey accompanying the previous Impact Assessment (Ref: RCo193/Quietwaters/Rev02 05.07.17).
- 2.3 Tree locations are provided in the Tree Layout Plan (Ref: Drg No. NJCL 252 A1 **Appendix 1**).

|                                                   | BS5837:2012 Assessment Category |    |    |   |
|---------------------------------------------------|---------------------------------|----|----|---|
|                                                   | A                               | B  | C  | U |
| Trees to be removed                               | 1                               | 23 | 25 | 2 |
| Trees to be retained & protected                  | 2                               | 15 | 7  |   |
| Trees to be protected through special precautions | 0                               | 0  | 0  |   |

Table 5

- 2.4 The proposed tree removal is largely restricted to lower quality trees of limited amenity and landscape value and is summarised on the Tree Removal Plan (Ref: Drg No. NJCL 252 B1 **Appendix 1**).
- 2.5 The loss of tree 25, which is a component of TPO/A/1/17 is regrettable, however a replacement specimen has been proposed in the north eastern corner of the site.

- 2.6 The remaining proposed tree removals have been adequately mitigated within the detailed landscape proposal prepared by Ramsay & Co. Landscape Architecture.
- 2.7 Any trees located off site and potentially impacted by the proposed development have been included within this assessment.
- 2.8 The proposed layout largely respects the constraints posed by the retained trees. Minimal marginal incursion into the RPA's of retained trees is proposed. These are illustrated on the Tree Protection Plan (Drg No. NJCL 252 C1 **Appendix 1**).
- 2.9 Allowance is made within the design for the future growth of retained trees and the provision of appropriate useable amenity space.

---

### 3. Arboricultural Method Statement

3.1 The principal purpose of an Arboricultural Method Statement is to ensure the preservation of retained trees through setting out appropriate working practices, construction techniques and tree protection measures that will be adopted when construction work is undertaken.

3.2 The following Arboricultural Method Statement includes a Tree Protection Plan (Ref: NJCL 252 C1 **Appendix 1**) which identifies the following:

- 3.2.1 Trees to be retained.
- 3.2.2 Construction Exclusion Zone.
- 3.2.3 Tree Protection Measures.

#### 3.3 Construction Exclusion Zone

3.3.1 British Standard 5837:2012 recommendations provide a formula for calculating the Root Protection Area which indicates the area around a tree deemed to contain sufficient roots and soil rooting volume to maintain the trees viability. The protection of the roots and soil within this area should be treated as a priority. The shape of the RPA and its exact location will depend upon arboricultural considerations and the area will normally be represented on a constraints plan as a circle or polygon. This information will inform the extent of the CEZ. No work shall be undertaken within any defined CEZ's that may cause compaction to the soil or the severance of tree roots.

#### 3.4 Protective Fencing

3.4.1 Protective fencing will be erected in accordance with paragraph 6.2.2.3 of BS5837:2012 and as indicated in Figure 1. The location of the protective fencing is indicated on Drg No. NJCL 252 C1 **Appendix 1**.

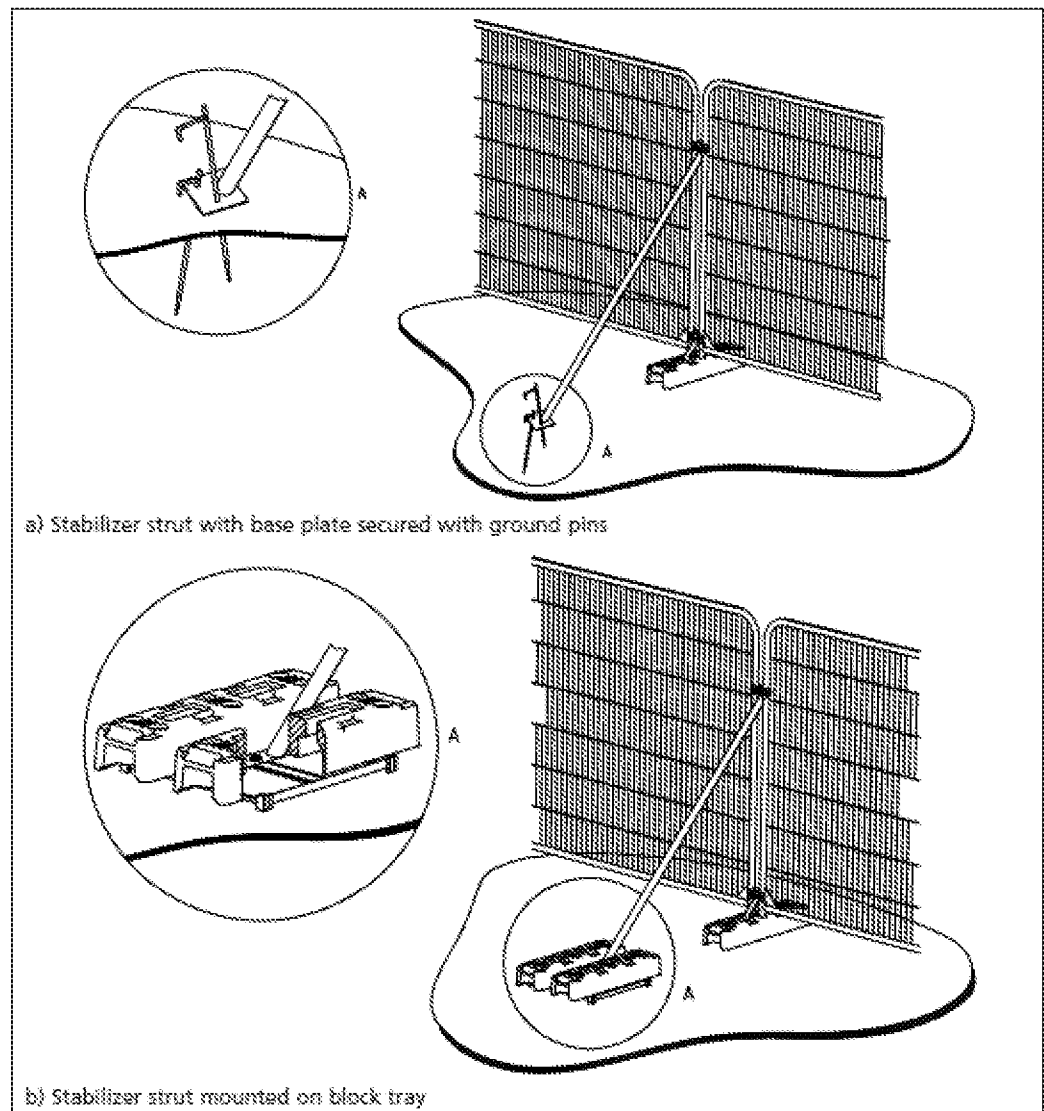


Figure 1

- 3.4.2 All protective fencing shall be erected prior to the commencement of any works on site.
- 3.4.3 Any accidental damage to the retained trees or any associated protection measures must be reported to the site manager immediately. Works occurring in the vicinity must cease immediately until adequate remediation has been completed. A record of any damage will be made by the site manager and in consultation with the project arborist any remediation undertaken.

---

### 3.5 Precautions in Respect of Temporary Works

- 3.5.1 If temporary access is required within the CEZ then access may only be gained following consultation with the LPA and the placement of any agreed additional protection measures, such as ground protection matting.

### 3.6 Access Details

- 3.6.1 There is no requirement for any special measures related to the retained trees as all access for construction vehicles will be from the existing widened access drive.

### 3.7 Contractors Car Parking

- 3.7.1 No car parking will be available within the CEZ.

### 3.8 Site Huts and Toilets

- 3.8.1 No site offices or welfare facilities will be located within the CEZ.

### 3.9 Storage Space

- 3.9.1 No materials will be stored within the CEZ.

### 3.10 Additional Precautions

- 3.10.1 There are no services planned within the CEZ.
- 3.10.2 No storage of materials, lighting of fires will take place within the CEZ. No materials shall be stored or mixed in a location where they may leach into the CEZ.
- 3.10.3 No fires shall be lit within 20 metres of any retained tree.
- 3.10.4 If cranes and or high sided vehicles are required during the construction period, then a separate method statement shall be supplied and agreed by the LPA to ensure that there is no damage to any retained trees.
- 3.10.5 No site notices, cables or other services shall be attached to any tree.

---

### 3.11 Site Gradients

3.11.1 No alterations of soil levels will take place within the CEZ.

### 3.12 Demolition

3.12.1 No demolition is required on site.

### 3.13 Hard Surfaces

3.13.1 No hard surfaces are to be constructed within the CEZ.

### 3.14 Soft Landscaping

3.14.1 No soft landscaping is scheduled to be carried out in the CEZ.

### 3.15 Use of Herbicides

3.15.1 No herbicide use is required on site.

### 3.16 On site Monitoring Regime

3.16.1 Monitoring will involve a schedule of visits, frequency to be agreed with the LPA, and completion of a standard form an example of which is provided in **Appendix 2** which must be completed by the project arborist and signed by the client, site manager or their representative and the project arborist. A copy is then kept by the client, the project arborist and an additional copy forwarded to the LPA.

3.16.2 Any construction works required within the CEZ will be completed under the periodic supervision of the project arborist.

3.16.3 If the task is to be prolonged, provided the project arborist is satisfied, the supervision may be reduced to telephone contact between the site manager and the project arborist.

3.16.4 The supervision may require the project arborist to be present throughout the tasks to ensure all of the arboricultural objectives are met.

---

### 3.17 Use of Subcontractors

- 3.17.1 The main contractor will be responsible for ensuring that sub-contractors do not carry out any process or operation that is likely to adversely impact on any retained trees.

### 3.18 Contingency Plan

- 3.18.1 Water is readily available on site and will be used to flush spilt materials through the soil and avoid contamination to tree roots. At the time of any spillage the main contractor will contact the project arborist for advice.

### 3.19 Remedial Tree Works

- 3.19.1 All tree works will be undertaken prior to the commencement of construction work on site. All tree works shall be undertaken in accordance with the guidance provided in British Standard 3998: Recommendations for Tree Works 2010.

### 3.20 Responsibilities

- 3.20.1 It is the responsibility of the main contractor to appoint a suitably qualified project arborist prior to the commencement of works.
- 3.20.2 It is the responsibility of the main contractor to ensure that all tree related planning conditions attached to the planning consent are adhered to at all times and that a monitoring regime with regard to tree protection on site is adopted and maintained.
- 3.20.3 The main contractor will ensure that the build programme is appropriate to ensure that no damage occurs to the retained trees. All protective fencing and shall remain in place until all construction work has been completed unless otherwise agreed by the project arborist.
- 3.20.4 The Local Authority Arborist shall have free access to the site and pass any observations and recommendations directly to the project arborist.

### 3.21 Contact details

3.21.1 Table 6 contains the contact details of the key parties involved in ensuring this AMS is adhered to.

| Position         | Name       | Company                            | E-mail     | Telephone Number |
|------------------|------------|------------------------------------|------------|------------------|
| Main Contractor  | TBC        | TBC                                | TBC        | TBC              |
| Project Arborist | Nick Jones | Nicholas Jones Consultants Limited | [REDACTED] | [REDACTED]       |
| LPA Arborist     | TBC        | Arun District Council              | TBC        | [REDACTED]       |

Table 6

---

#### 4. Summary & Conclusions

- 4.1 British Standard 5837: 2012 contains clear and current recommendations for a best practice approach to the assessment, retention and protection of trees on development sites. The proposed development has followed this guidance by:
- Seeking arboricultural advice to inform the layout and design of the proposal
  - Respecting the constraints posed to development of the site by the retained trees, and taking proactive steps to ensure their protection during development
  - Continuing to take advice on all aspects of the proposal that may impact upon the retained trees
- 4.2 The proposed development is largely located outside the root protection areas of the retained trees. The proposed development will have no detrimental impact on the retained trees.
- 4.3 By implementing suitable protection measures for the retained trees, it is my considered opinion that there is ample scope within the site for the construction process and associated activities required to facilitate the proposed development.
- 4.4 In summary, I consider that there are no valid arboricultural issues that reasonably restrict the proposed development of the site.

Signed:



Nicholas Jones *BSc (Hons). MSc. M Arbor A.*

Date: 10<sup>th</sup> July 2018



Arboricultural  
ASSOCIATION  
Professional Member  
No. PRO 1672

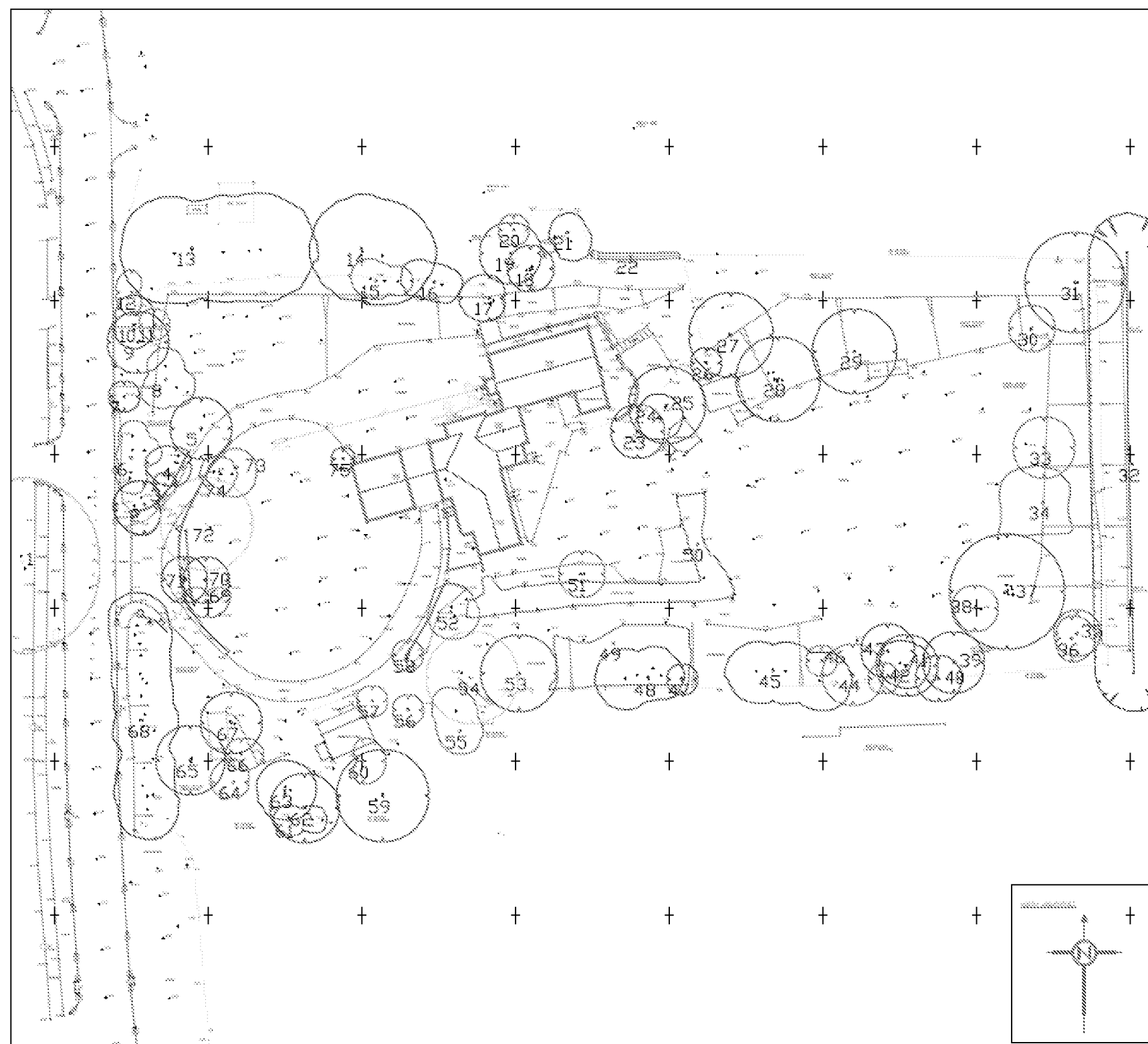
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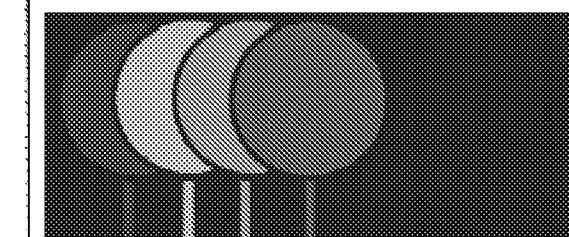
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## Appendix 1 - Drawings

Do not scale from these drawings, they have been resized to fit this report



-  Category A - Trees with an estimated remaining life expectancy of at least 40 years
-  Category B - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years
-  Category C - Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm
-  Category U - Trees in such a condition that their retention in the context of the current land use cannot reasonably exceed 10 years



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Client's Name

Gold (Angmering) Ltd

Job Title

Quiet Waters, Roundstone Lane  
 Angmering, BN16 4AX

Drawing Title

Tree Layout Plan

Scale

1:500 @ A3

Drawn

NDJ

Date

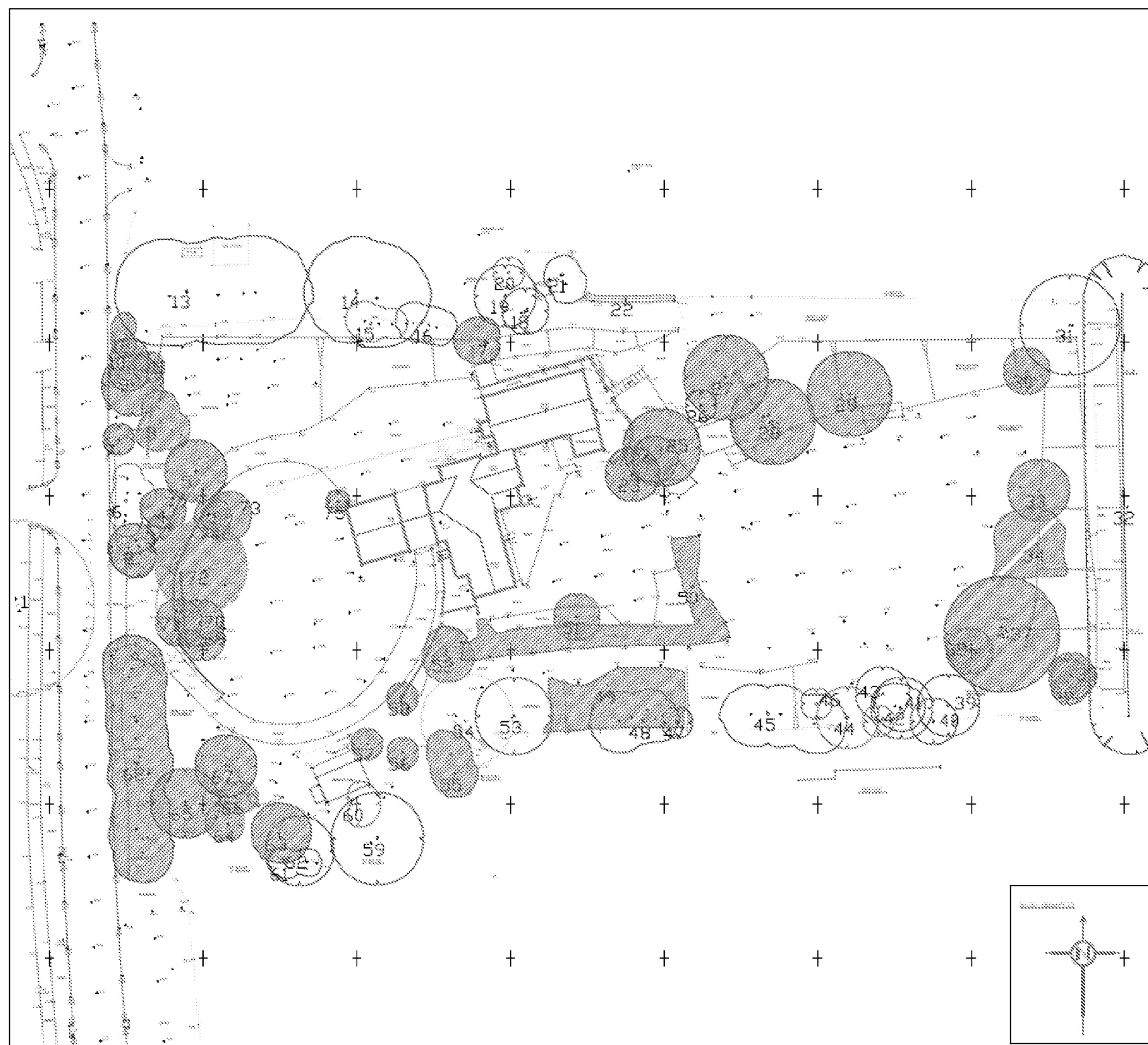
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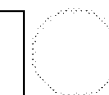
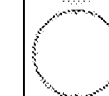
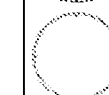
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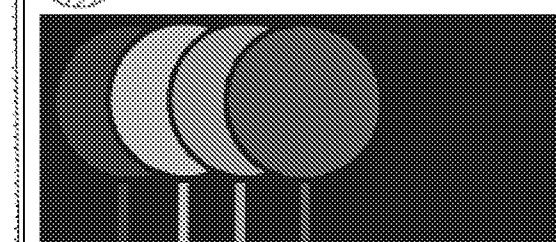
NJCL 252 A1

Status

INFORMATION



-  Category A - Trees with an estimated remaining life expectancy of at least 40 years
-  Category B - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years
-  Category C - Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm
-  Category U - Trees in such a condition that their retention in the context of the current land use cannot reasonably exceed 10 years
-  Tree proposed for removal to facilitate the proposed development



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Client's Name

Gold (Angmering) Ltd

Job Title

Quiet Waters, Roundstone Lane  
 Angmering, BN16 4AX

Drawing Title

Tree Removal Plan

Scale

1:500 @ A3

Drawn

NDJ

Date

10.07.2018

Dwg No

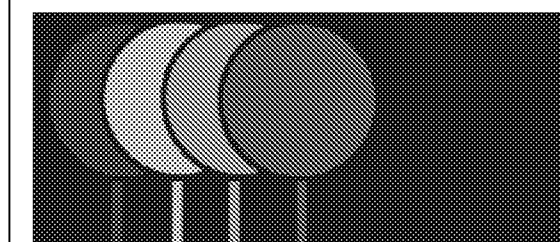
NJCL 252 B1

Status

**INFORMATION**



-  Category A - Trees with an estimated remaining life expectancy of at least 40 years
-  Category B - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years
-  Category C - Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm
-  Root Protection Area (RPA)
-  Tree Protection Fencing (TPF)
-  Construction Exclusion Zone (CEZ)



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Client's Name

Gold (Angmering) Ltd

Job Title

Quiet Waters, Roundstone Lane  
 Angmering, BN16 4AX

Drawing Title

Tree Protection Plan

Scale

1:500 @ A3

Drawn

NDJ

Date

10.07.2018

Dwg No

NJCL 252 C1

Status

INFORMATION

---

## Appendix 2 – Site Supervision & Monitoring Record



## **Site Supervision and Monitoring Record**

Site:

Sheet no.....

| Visit date | Visited by | Observations | Recommendations |
|------------|------------|--------------|-----------------|
|            |            |              |                 |
|            |            |              |                 |
|            |            |              |                 |
|            |            |              |                 |
|            |            |              |                 |

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