



**Amended Arboricultural Impact Assessment and  
Method Statement**

**CAS/2023/190A**

**For  
Architek Design/Planning Ltd**

**Proposed Development Site  
Cherry Dene, Norwood Lane, Meopham, Gravesend,  
DA13 0HX.**

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## **1.0 Introduction**

### **1.1 Instruction**

1.1.1 Cantia Arboricultural Services were instructed to undertake a tree survey and provide arboricultural advice on the site known as Cherry Dene, Norwood Lane, Meopham, Gravesend, DA13 0HX. to accompany a planning application.

1.1.2 The site visit was carried out on Thursday 24<sup>th</sup> August 2023, between the hours of 1030-1500hrs (270 minutes) and weather conditions were noted as clear with visibility conducive of surveying.

### **1.2 Aim of Report**

1.2.1 To survey in accordance with BS 5837: 2012 ‘Trees in Relation to Design, Demolition and Construction – Recommendations’ to plot and assess the quality of the existing trees located on site and within 15m of proposed development operations.

1.2.2 To assess the impact of the proposed development upon trees located on site and within the immediate vicinity. To provide advice on trees requiring removal and outline protective measures for trees marked for retention.

1.2.3 To provide a work specification as required by retained trees to accommodate the proposed development.

1.2.4 To provide recommendations and guidance on how trees and other vegetation may be successfully retained within the proposed development

### **1.3 Documentation & Disclosure**

1.3.1 The following documentation has been made available

- Existing and Proposed Site Plans - 0724.WD.05B- Proposed Detailed Site Plan Stripped for CAD A1 200.dwg & 0724.WD.05C- Proposed Detailed Site Plan A1 200 (1).pdf.

## 2.0 Site & Tree Discussion

### 2.1 Site Description

- 2.1.1 The site consists of a two-story detached house set in a plot of approx. 2,785 square metres (0.6 Acre). The property faces Northwards and is located approx. 9.5 metres from the highway.



- 2.1.2 The Northern boundary consists of a row of trees of predominantly coniferous species with the property accessed via a gravel driveway. Throughout the front and rear garden the majority of the land is laid to lawn, with planter beds and trees located sporadically throughout the plot.



- 2.1.3 Apart from the Northern boundary the site is bordered on all sides by neighbouring properties. The gradient of the land throughout the plot is generally level.

## **2.2 Access**

- 2.2.1 Vehicle and plant access to the site is unencumbered via Norwood Lane. Access to the rear garden and area of development will be achieved by the creation of a new access road.

## **2.3 Proposal**

- 2.3.1 The proposal is the construction of 2 x detached houses with associated utility and amenity infrastructure.

## **2.4 Scope of Report / Limitations**

- 2.4.1 This is a preliminary assessment from ground level and observations have been made solely from a visual perspective for the purposes of assessment in terms relevant to planning and development. No invasive or other detailed internal decay detection devices have been used in assessing internal conditions.
- 2.4.2 All individual trees within a 15m radius of the development that have a stem diameter over 75mm at 1.5m above ground level have been surveyed. Each tree is surveyed and allocated an identifying number. Then data is collected and individual trees measured with regards to their height, stem size, canopy size and potential to pose a material constraint to development. Subject trees are each allocated one of four grade categories (A, B, C or U) indicating their quality. Trees, groups and hedges have been graded upon individual merit in the context of their existing surroundings regardless of any proposed development of the site.
- 2.4.3 Any conclusions relate to conditions found at the time of inspection. Any alteration to the site that may affect the trees that are present or have a bearing on planning implications (including level changes, hydrological changes, extreme climatic events or other site works) will necessitate a re-assessment of the trees and the site and render any previous advice/ findings invalid.
- 2.4.4 Trees are living organisms and even apparently healthy trees cannot be considered completely safe due to forces of nature and environmental fluctuations which dictate a natural failure rate of intact and healthy trees.

2.4.5 Where there are access restrictions data has been estimated. This is reflected in the survey schedule with a (#) symbol before measurement.

2.4.6 The survey was carried out with the assistance (where required) of the following inspection equipment-

- Binoculars – Inspection of upper sections of the tree
- Sounding Mallet – Assessment of wood quality, decay extent
- Steel Probe – To test resistance of wood and depth of cavities
- Secateurs – Removal of basal growth & ivy to allow inspection
- DBH (diameter) Tape – Measurement of stem diameter
- Clinometer- To measure height of tree
- Laser measure – Measurement of canopy dimensions & tree location

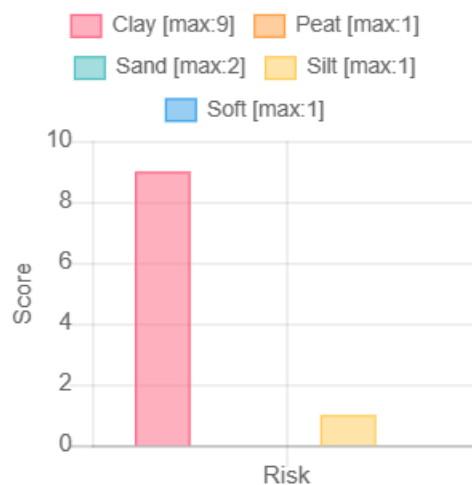
## 2.5 Tree Discussion

- 2.5.1 A total of thirty-six individual trees and six groups of trees have been assessed in detail from ground level by visual means only. The Tree Survey Schedule, at Appendix 2, details the trees in respect of dimension and quality in accordance with the methodology set out in the British Standard 5837:2012. The following categories were recorded-

| Category | Quantity | Identification Numbers                                           |
|----------|----------|------------------------------------------------------------------|
| A        | 3        | T06, T10 & T12                                                   |
| B        | 9        | G01, G03, G05, G06, T01-T03, T05 & T31                           |
| C        | 25       | G02, G04, T04, T07-T09, T11, T13-T16, T19-T25, T27-T29 & T32-T35 |
| U        | 5        | T17, T18, T26, T30 & T36                                         |

- 2.5.2 Trees categorised as A or B are viewed as a constraint to development. Should any proposed development require the removal of trees/groups (or parts of groups) within these categories then it is likely that local authorities would require mitigation in the form of a robust soft landscaping/planting plan. Trees classed as category C are generally not viewed as a constraint although plans to remove large numbers of these would likely still require mitigation. Trees classed as category U are trees in irreversible decline unlikely to be in situ for more than 10 years. These trees are therefore not considered a constraint and also have no RPA (Root Protection Area) plotted.
- 2.5.3 Where trees have been surveyed and plotted in groups, they typically contain specimens of varying age class and size. Please take note of survey schedule for indication of average height/size and maximum height/size within group. Where groups of trees have been surveyed and plotted, the largest DBHs' of the trees located along the groups edge have been noted and used to indicate the maximum RPA potential.

- 2.5.4 Also noted on site were numerous small trees / woody shrubs too small to warrant inspection in accordance with BS5837 Trees in Relation to Design, Demolition and Construction 2012:Recommendations.
- 2.5.5 Correspondence with Faye Hobbs from Gravesham Council indicated that the property does not fall within a Conservation Area. Nor are there any Tree Preservation Orders (TPOs') affecting the site.
- 2.5.6 Soil analysis provided by Terrasure/Airbus indicated a soil with high clay content (9/9). Therefore, there is a potential risk of indirect damage caused by soil shrinkage in periods of hot/dry weather. This information must be considered when designing foundations with a recommendation for either pile type foundations or a traditional foundation design with a depth in accordance with NHBC guidelines.



### 3.0 Arboricultural Impact Assessment on Retained Trees

#### 3.1 Demolition

- 3.1.1 No demolition is scheduled to take place within the measured RPAs' of trees marked for retention and therefore in this instance no specialised demolition techniques are required.

#### 3.2 Construction

- 3.2.1 Construction of the new access road required to service the proposed units will create the following conflicts with the measured RPAs' of trees marked for retention –

| Tree Number / Species | Category | Conflict / Square Metres | Conflict % of Total RPA |
|-----------------------|----------|--------------------------|-------------------------|
| T04                   | C        | 9.8 sqm                  | 15.3%                   |
| T10                   | A        | 42.5 sqm                 | 12.99%                  |

Therefore, in this area construction must be of a no-dig design. Typically, this could involve the use of a 3d cellular system to avoid the risk of soil compaction with a permeable final surface. These must be installed as outlined in section P5.0 of the Arboricultural Method Statement.

| Tree Number / Species |   | Conflict / Square Metres | Conflict % of Total RPA |
|-----------------------|---|--------------------------|-------------------------|
| T06                   | A | 1.5 sqm                  | 0.8%                    |

Therefore, in these areas pre-emptive root pruning trenches will be excavated. These must be implemented as outlined in section P4.2 of the Arboricultural Method Statement and where shown on the Tree Protection Plan CAS/2023/190.

- 3.2.2 The patio scheduled for Proposed Dwelling B will create the following conflicts with the measured RPAs' of trees marked for retention –

| Tree Number /<br>Species | Category | Conflict / Square<br>Metres | Conflict % of Total<br>RPA |
|--------------------------|----------|-----------------------------|----------------------------|
| T10                      | A        | 10.6 sqm                    | 3.2%                       |

Therefore, in this area construction must be of a no-dig design. Typically, this could involve the use of a 3d cellular system to avoid the risk of soil compaction with a permeable final surface. These must be installed as outlined in section P5.0 of the Arboricultural Method Statement.

- 3.2.3 The foundations of proposed unit A will conflict with the measured RPAs' of the following trees

| Tree Number /<br>Species   | Category | Conflict / Square<br>Metres | Conflict % of Total<br>RPA |
|----------------------------|----------|-----------------------------|----------------------------|
| T12 Californian<br>Redwood | A        | 7.4 sqm                     | 1.8%                       |
| G05 Mixed Species          | B        | 22.7 sqm                    | 16.5%                      |

Therefore, in this instance pile foundations will be used to minimise impact upon the root zones. Typically, this could involve small piles with a pad or lintels set at or above ground level to support the structure and negate the requirement for excavation. These must be installed as outlined in section P6.0 of the Arboricultural Method Statement.

- 3.2.4 Fencing is scheduled to be installed within the measured RPAs' of trees marked for retention. These operations must be carried out as outlined in section P
- 3.2.4 No service run plans have been provided. Adequate space exists on site so that any requirement for fresh runs can be located outside of the measured RPAs' of trees marked for retention.

### 3.3 Trees Requiring Removal

3.3.1 The proposal seeks /requires the removal of the following trees –

| Tree Number                                                             | Category | Total |
|-------------------------------------------------------------------------|----------|-------|
| T05                                                                     | B        | 1     |
| T08, T09, T13, T15, T16, T19 -<br>T25, T27, T28, T29, T33,<br>T35 & G04 | C        | 18    |
| T17, T18, T26, T30 & T36                                                | U        | 5     |

Based on the volume of existing and retained canopy cover and high tree numbers, the proposed losses associated with the development can be tolerated by this site. More importantly, the integrity of the boundary screen is to be maintained along with higher quality trees on site, and thus, views of the internal changes to the site will be screened effectively. With this in mind, the proposed scheme will have a low to indiscernible impact to the neighbouring properties and users of the highway.

Given the scope to mitigate these losses with new tree planting, there is an opportunity to consider how future tree planting could match and in time improve upon the existing visual character of the site in relation to the local area. This proposal is supported by a planting plan (document CAS/2023/197A) which seeks to enhance the site in the following ways -

- Increasing species diversity within the site boundaries
- Increasing habitat provision by planting predominantly native species including a mix of hedging and specimen trees
- Providing an abundant food source for pollinators including early flowering species
- Providing diverse seasonal change / colour
- Providing adequate screening for privacy

### **3.4 Implications for Retained Trees**

3.4.1 Tree numbered T034 Ash may require periodic pruning where the tree crosses the boundary line to avoid physical contact with the proposed new development.

3.4.2 Remaining trees marked for retention will require no additional pruning or intervention due to the proposed development.

## **4.0 Conclusions**

- 4.1.1 The proposal requires the removal of a number of trees, some of which are clearly visible within the public realm. However, considering the scope to mitigate these losses with new tree planting (which is provided in document CAS/2023/197) then there is an opportunity to consider how future tree planting could surpass and improve upon the habitat provision and existing visual character of the site in relation to the local area.
- 4.1.2 Root pruning will be employed where small conflicts exist between the proposed development and the measured RPAs' of trees marked for retention.
- 4.1.3 No-dig techniques will be implemented where there are conflicts between the proposed new access roads and the measured RPAs' of trees marked for retention.
- 4.1.4 Specialised foundations design and installation techniques will be utilised where conflicts exist between the proposed design and the measured RPAs' of trees marked for retention.
- 4.1.5 So long as the precautionary and protective measures outlined within this report are strictly observed and adhered to, and the supporting planting plan is implemented in full, then the proposed development will have a neutral impact upon trees marked for retention and a positive impact upon the broader landscape / habitat contribution of the site to the local area.

# Arboricultural Method Statement

## 1.0 Summary

- 1.1 This document outlines the principles that are approved and enforced by the local planning authority, including site specific instructions on the methods required to protect the existing tree stock agreed for retention. These methods are set out in a logical sequence of operations with location of protective measures shown on the accompanying Tree Protection plan CAS/2023/190.

## 2.0 Important Tree Information

- 2.1 As the majority of tree roots are found in the upper metre of soil, development works, including for example even shallow excavation, soil compaction and soil contamination, can be harmful to trees in close proximity. Trees differ in their tolerance of root loss or disturbance, according to their age, species and/or condition. All protection works within this document will be in accordance with BS 5837: 2012 ‘Trees in Relation to Design, Demolition and Construction – Recommendations’
- 2.2 An assessment of the site’s tree stock has been undertaken and those trees to be retained are clearly shown on the Tree Protection Plan (TPP). A calculation has been made of the volume of soil required to ensure the survival of these and this is represented by the Root Protection Area (RPA) indicated by the magenta circles or squares around the retained tree on the plan.
- 2.3 The RPA has been used to inform the Construction Exclusion Zone (CEZ), the area to be protected during development by the use of barriers, ground protection and specialised construction techniques - outlined below:-

### 3.0 Sequenced Methods of Construction and Tree Protection

#### P1.0 Phase 1 - Pre-Contract Meeting

- P1.1 If stipulated by the local authority an onsite meeting will be held with all relevant parties including the developer, appointed arboricultural supervisor and Local Planning Authority (LPA) representative.

#### P2.0 Phase 2 - Execute Agreed Tree Works

| Tree Number                                                       | Proposed Works                   | Reason                                      |
|-------------------------------------------------------------------|----------------------------------|---------------------------------------------|
| G04, T05, T08, T09, T13,<br>T15-T25, T27 – T30,<br>T33, T35 & T36 | Removal                          | Removal required to<br>accommodate proposal |
| T34                                                               | Prune back overhanging<br>canopy | Access facilitation pruning                 |

- P2.1 All tree work is to conform to BS 3998:2010 and to current arboricultural best practice. Tree works are to be undertaken by a professional and specialist arboricultural contractor, who carries the appropriate experience and insurance cover and following formal approval from the LPA.

#### P3.0 Phase 3 - Tree Protection Barriers and ground protection

- P3.1 In order to protect the tree stems from significant construction activity, protection barriers will be erected. See Plan for fencing location. Fencing should be of a reasonable standard and suitable for the purpose of preventing machinery entering the protected zones see example given below in appendix 1.
- P3.2 BS5837 Trees in Relation to Design, Demolition and Construction (2012) requires that the root protection area be calculated for each tree marked for retention on the development. The root protection area is the minimum area in m<sup>2</sup> which should be left undisturbed around each retained tree, including the delivery of machinery, materials, plant or equipment to the site or any adjacent land. The protective

measures will remain in situ until final completion or a time agreed by the LPA and Contractor.

- P3.3 Tree protection fencing will be required to be installed as shown on the Tree Protection Plan CAS/2023/190. Fit for its purpose fencing must be installed after any required tree works and prior to any construction operations on site. Once the barriers have been properly erected in position, they are to be considered as sacrosanct and are not to be removed or altered in any way without prior approval from the LPA.
- P3.4 Clear notices as shown below are to be fixed to the outside of the fencing with words such as ‘Tree Protection Zone – Do not remove this fencing’. All operatives and other relevant personnel are to be informed of the role of the exclusion barriers and their importance. Protective fencing should remain in situ throughout the entire construction process. The site manager should be aware that it is his responsibility to maintain protective measures adequately and these should be casually inspected at regular intervals with written records of inspection.



- P3.5 Where stipulated on the Tree Protection Plan ground protection should be laid. The gross weight of predicted traffic in the area should be calculated and ground protection laid as stipulated below –

- *For pedestrian access, a single thickness of scaffold boards placed on a driven scaffold frame, so as to form a suspended walkway or on a compressive- resistant layer such as, e.g. woodchip 100mm min, laid onto a geotextile membrane will be sufficient.*
- *For pedestrian operated machinery up to a gross weight of 2t inter linked ground protection boards places on top of a compression- resistant layer, as above, will be required.*
- *For machinery greater than 2t and engineered specification will be required.*

P3.6 If there is a requirement to move or carry out operations inside the area of protective fencing then ground protection should be laid over any exposed ground prior to movement or works commencing. This should be laid in accordance with section P3.5 of the Arboricultural Method Statement.

P3.7 When there is a requirement to carry out work in an area covered with ground protection then only the immediate area of work should have the protection rolled/scraped back. Once the task in hand is completed then ground protection should be instantly re-instated.

P3.8 Adequate room is available for the locating of compounds and material storage within the site boundaries and outside of any measured RPA.

#### **P4.0 Phase 4 - Ground works**

P4.1 Spoil, including soil and rubble surplus to requirements will be removed from site and not stored against any protective fencing.

P4.2 Where foundations require pre-emptive root pruning this should be excavated outside the line of foundation closest to the tree by hand or with the use of an air pick to a depth of 600mm. Roots discovered less than 25mm in diameter may be cut, roots greater than 25mm in diameter must only be cut after consultation with the project arboriculturalist and or the LPA. Once roots have been cut conventional excavation can be carried out.

P4.3 Service runs to be located outside any indicated RPA.

**P5.0 Phase 5 – Installation of No-Dig Surfacing**

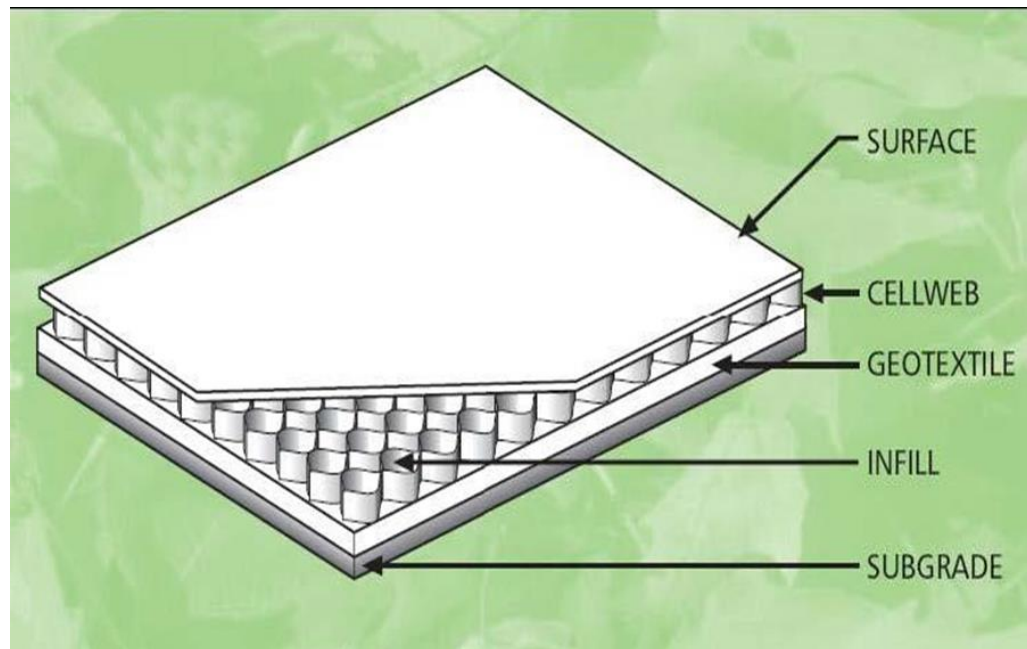
P5.1 Designs for ‘no-dig’ surfacing that would minimize adverse impact on trees should include particular attention to existing levels, proposed finished levels and cross-sectional details.

P5.2 The design should not require excavation into the soil, including through lowering of levels and/or scraping, other than the removal, using hand tools, of any turf layer or other surface vegetation. If it is intended to use the new surface for construction access, it is essential that the extra loading and wear arising from this are taken into account during the design process.

P5.3 The gross weight of proposed traffic for each area must be calculated and the design include a suitable three dimensional cellular confinement system to alleviate risk of future soil compaction.

P5.4 The sections below offer generic installation techniques relating to the construction of hard surfaces, for example, roads and paths, parking areas and bases for bicycle or bin stores not required to be to an adoptable standard and within the CEZ of retained trees. Manufacturers installation guidelines should be referenced and where required supersede the instructions below.

P5.5 The construction area is to be levelled by filling hollows and removing protrusions and hard landscaping. No soil excavation, other than the removal of a ‘turf or vegetation layer’ is to be carried out during this process and filling material should be of a porous nature to allow water and oxygen to reach the soil below. In the unlikely event that roots are required to be pruned, sharp cutting tools are to be used to ensure that minimum damage is caused. No roots, greater than a diameter of 25mm, are to be pruned without prior agreement with the appointed arboricultural supervisor or LPA representative.



- P5.6 A geo-textile membrane (Terram or similar) is then to be laid over the whole surface, including any retained hard surfaces. This is to be fixed firmly into position with ground pegs.
- P5.7 Where edging blocks or stone are to be used to retain the drive surface within the CEZ, the mix into which they are set will be laid directly onto the geo-textile membrane over the supporting base. No deeper excavations are to be made to accommodate the footing of the edging detail.
- P5.8 A geoweb material is then placed over the membrane and also fixed into position. An aggregate sub-base material is then introduced in to the geoweb. The depth of the sub-base aggregate should be the same depth as the geoweb and no less than 100mm. The aggregate should be a granular no fines material (typically 40-20mm). Not only will this material dissipate load and reduce soil compaction, it will permit easy passage of air (oxygen) to the rooting area of the tree below the surface.
- P5.9 The sub-base material is to be compressed into position ready for the final surface treatment. This surface can also be used as a temporary works access route prior to the laying of the final surface.

- P5.10 Final surface details for residential purposes will be of a porous nature such as gravel, block paviors or small paving slabs and should be approved by the LPA. In the usual way these should be bedded into a lean mix that is also highly porous. Final surface treatment can be installed as part of the landscaping works.

## **P6.0 Phase 6 – Installation of Pile Type Foundations**

- P6.1 Designs for foundations that would minimize adverse impact on trees should include particular attention to existing levels, proposed finished levels and cross-sectional details.
- P6.2 Where Pile foundations are selected then an investigation will be required to determine their optimal location whilst avoiding damage to roots important for the stability of the tree, by means of hand tools or compressed air soil displacement, to a minimum depth of 600 mm.
- P6.3 Piles to be installed near to trees must be of the smallest practical pile diameter as this reduces the possibility of striking major tree roots and reduces the size of the rig required to sink the piles.
- P6.4 Pile holes must be lined with an impermeable sleeve to reduce risk of leeching into the root zone of the trees.
- P6.5 If a piling mat is required, this must conform to the parameters for temporary ground protection given in section P3.5 of the Arboricultural Method Statement.

## **P7.0 Phase 7 – Installation of Fencing within Root Protection Areas (RPAs’).**

- P7.1 Where posts are to be located then an investigation will be required to determine their optimal location whilst avoiding damage to roots important for the stability of the tree, by means of hand tools or compressed air soil displacement, to a minimum depth of 600 mm.

- P7.2 No fence posts are to be located within 500mm of the main stems of trees marked for retention. This may require the construction of bespoke length fence panel runs.
- P7.3 Posts to be installed near to trees must be of the smallest practical size as this reduces the possibility of striking major tree roots.
- P7.4 Post holes must be lined with an impermeable sleeve to reduce risk of leeching into the root zone of the trees.

#### **P8.0 Phase 8 - Dismantling Protection Barriers and Landscaping Works**

- P8.1 A minimum notice period of seven days will be given to the LPA prior to the dismantling of the protection barriers.
- P8.2 All landscaping once the barriers have been removed will avoid soil re-grading and disturbance within the CEZ and no soil levels be altered after the protection barriers have been removed. All vehicles are strictly prohibited from entering any RPA once barriers are removed.

#### **4.0 General Principles for Tree Protection**

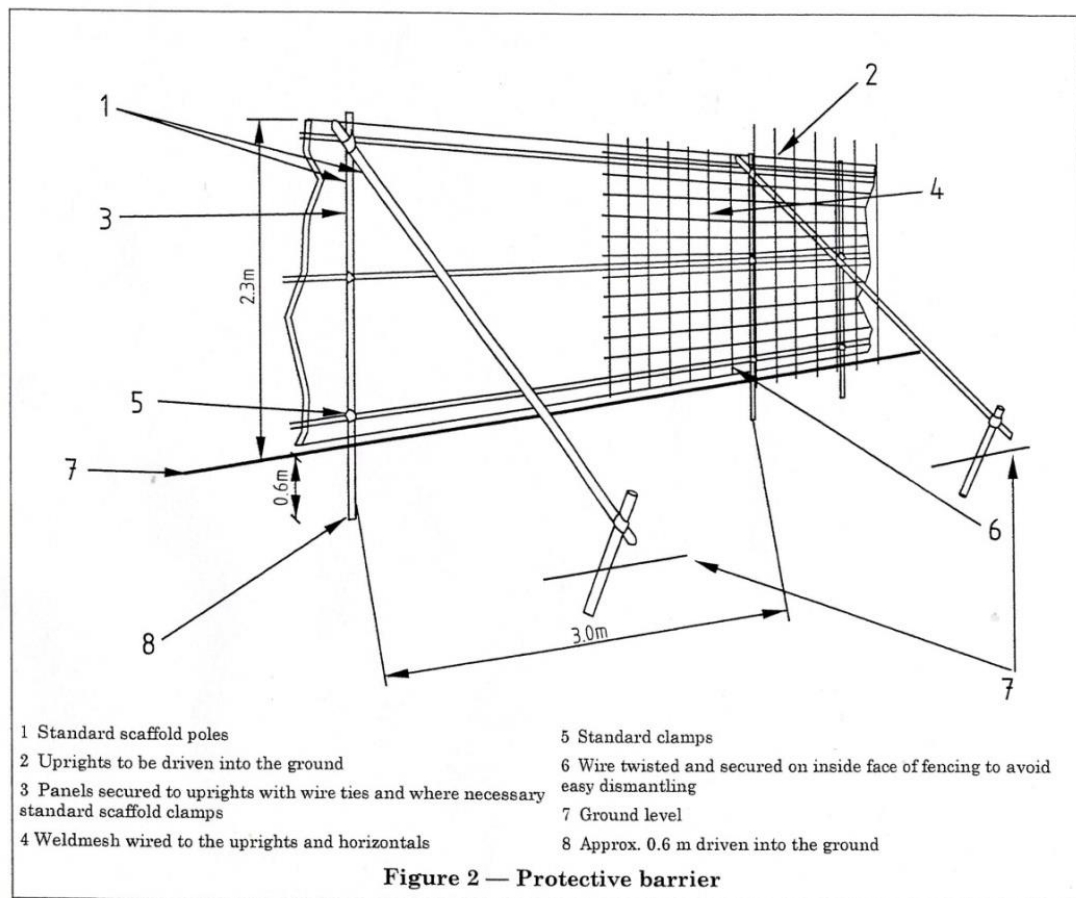
- 4.1 A copy of this AMS and the attached TPP is to be retained on site at all times and all personnel associated with the construction process will be made familiar with the principles within.
- 4.2 No fires are to be lit on site at any stage during the construction process.
- 4.3 A designated storage area is to be created away from retained trees. All materials for construction purposes are to be stored in this compound. Care must be taken to avoid the leakage or leaching of noxious materials into the soil.
- 4.4 No materials will be stored or left stacked in positions around the site other than within the storage compound area.

## **5.0 Communication Details, Monitoring and Compliance**

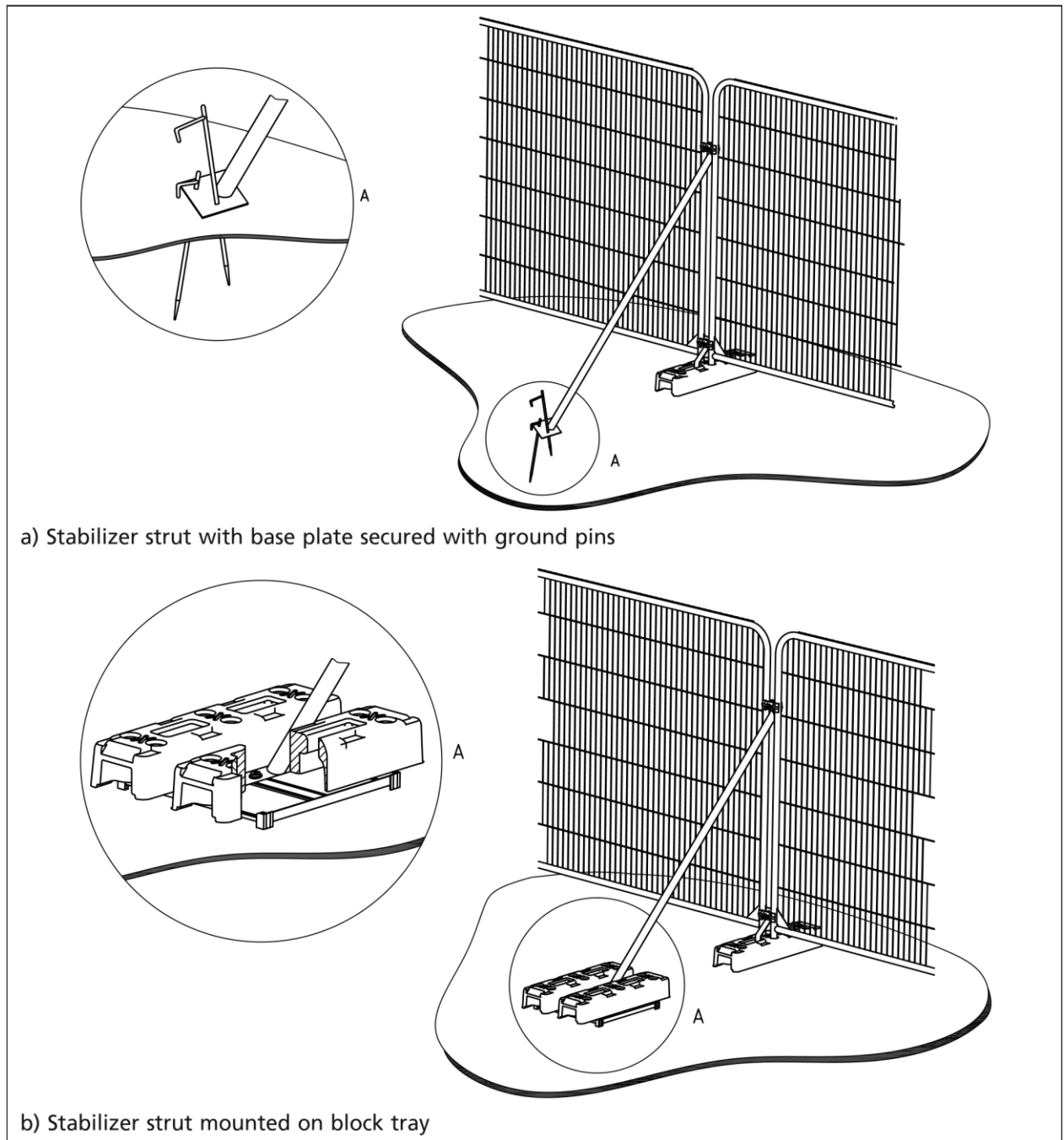
- 5.1 In order to ensure that the principles of tree protection set out in the statement are adhered to, it is important to set out communication details for key individuals and tasks that require monitoring. These details should be retained by all relevant parties and available on site at all times. Relevant parties will be advised of any changes in personnel or contractor during the development process.
- 5.2 Before construction begins written confirmation that the developer/contractor or its agents agree to comply in full with the principles set out within this Method Statement will be lodged with the LPA.

## Appendix 1: Tree Protection Fencing

### High Traffic Areas



## Low Traffic Areas



## Appendix 2 - Tree Schedule Explanatory Notes

|                                               |                                                                                                                                                                                                                |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ref.no</b>                                 | Identifies trees, groups and hedges on the accompanying plan.                                                                                                                                                  |
| <b>Species</b>                                | Common names are provided to aid wider comprehension.                                                                                                                                                          |
| <b>Height</b>                                 | Describes the approximate height of the tree measured in metres from ground level                                                                                                                              |
| <b>Canopy Spread</b>                          | Indicates the crown radius from the base of the tree in four compass directions, recorded to the nearest metre.                                                                                                |
| <b>Ground Clearance</b>                       | Height of crown clearance above adjacent ground in metres.                                                                                                                                                     |
| <b>DBH (mm)</b>                               | DBH is the diameter of the stem measured in cm at 1.5m from ground level for single stemmed trees or just above root flare for multi-stemmed trees. Stem Diameter may be estimated where access is restricted. |
| <b>RPR (cm)</b>                               | Root Protection Radius (RPR) is area required to be protected measured radially from the trunk centre.                                                                                                         |
| <b>RPA (m2)</b>                               | Root Protection Area (RPA) is the minimum rooting area in m2 which should remain undisturbed around each tree.                                                                                                 |
| <b>Age Class</b>                              | Age of the tree expressed as Y- Young, MA- Middle-Aged, EM- Early Mature, M- Mature or OM- Over-Mature                                                                                                         |
| <b>General Condition</b>                      | Overall condition of tree expressed as :Good, Fair, Poor, Dead                                                                                                                                                 |
| <b>Physiological and structural condition</b> | May include general comments about growth characteristics, how it is affected by other trees and any previous surgery works. Also specific problems such as dead wood, pests, diseases, broken limbs. Etc      |
| <b>Estimated Remaining Years</b>              | Categorised in year bands of less than 10, 10+, 20+, 40+                                                                                                                                                       |
| <b>BS Category</b>                            | B.S. Cat refers to (BS 5837:2005 Table 1) and refers to tree/overall group quality and value; 'A' - High; 'B' - Moderate; 'C' - Low; 'U' - Remove.                                                             |
| <b>Sub Category</b>                           | Sub Cat refers to the retention criteria values where 1 is arboricultural, 2 is landscape and 3 is cultural including conservational, historic and commemorative                                               |

### Appendix 3 – Tree Retention Category (as per cascade chart, Table 1, B.S. 5837:2012)

| Tree Category | Description                                                                                                                                                                                                                                                                                                                                                                 |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A             | Category A - Trees of high quality with an estimated remaining life expectancy of at least 40 years. 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).                         |
| B             | Category B – Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. 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. |
| C             | 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. 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.                 |
| U             | Category U – Trees 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. Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline.                                                                                                    |

# BS5837 Survey Data



| Ref. | Species                                                                                                                                  | Measurements                                                                                   | General Observations                                                                               | Category                        | Recommendations |
|------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------|-----------------|
| G01  | Elder<br>(Sambucus nigra)<br>Holly<br>(Ilex sp.)<br>Hawthorn<br>(Crataegus sp.)<br>Ash<br>(Fraxinus sp.)                                 | Height (m): 9.5<br>Stem Diam(mm): 300<br>Life Stage: Mature<br>Rem. Contrib.: 30+ Years        | Largest dbh noted approx 300mm (holly by gate).<br>Average dbh range 150mm                         | B2<br><br>RPA<br>Area: 39 sq m. |                 |
| G02  | Lawson cypress<br>(Chamaecyparis lawsoniana)<br>Yew<br>(Taxus sp.)                                                                       | Height (m): 14<br>Stem Diam(mm): 360<br>Life Stage: Mature<br>Rem. Contrib.: 30+ Years         | One dead lawson cypress noted within group.<br>Apart from one large specimen average dbh 100-120mm | C2<br><br>RPA<br>Area: 45 sq m. |                 |
| G03  | Laurel cherry<br>(Prunus laurocerasus)<br>Elder<br>(Sambucus nigra)<br>Monterey cypress<br>(Cupressus macrocarpa)<br>Holly<br>(Ilex sp.) | Height (m): 16<br>Stem Diam(mm): 400#<br>Life Stage: Mature<br>Rem. Contrib.: 20+ Years        | Group located in neighbouring garden                                                               | B2<br><br>RPA<br>Area: 58 sq m. |                 |
| G04  | Cherry plum x3<br>(Prunus cerasifera)                                                                                                    | Height (m): 7<br>3 stems, avg.(mm): 80<br>Life Stage: Early Mature<br>Rem. Contrib.: 20+ Years |                                                                                                    | C2<br><br>RPA<br>Area: 9 sq m.  |                 |

| Ref. | Species                                                                                                                                                                                    | Measurements                                                                                                                                                                      | General Observations                                                               | Category                                         | Recommendations |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------|-----------------|
| G05  | Sycamore<br>(Acer pseudoplatanus)<br>Scots pine<br>(Pinus sylvestris)<br>Ash<br>(Fraxinus sp.)                                                                                             | Height (m): 25<br>Stem Diam(mm): 550<br>Life Stage: Mature<br>Rem. Contrib.: 40+ Years                                                                                            | Group of large mature trees with dbh up to 550mm                                   | B2<br><br>RPA<br>Area: 44 sq m.                  |                 |
| G06  | Californian redwood<br>(Sequoia sempervirens)<br>Laburnum<br>(Laburnum sp.)<br>Apple<br>(Malus sp.)<br>Silver birch x2<br>(Betula pendula)<br>Beech<br>(Fagus sp.)<br>Oak<br>(Quercus sp.) | Height (m): 17<br>7 stems, avg.(mm): 510<br>Life Stage: Mature<br>Rem. Contrib.: 40+ Years                                                                                        | Group of mixed trees<br>Largest dbh 500mm (Oak in sw corner 7m from rear boundary) | B1,2<br><br>RPA<br>Area: 355 sq m.               |                 |
| T01  | Lawson cypress<br>(Chamaecyparis lawsoniana)                                                                                                                                               | Height (m): 11.5<br>2 stems (mm): 230,120<br>Spread (m): 2N, 1.5E, 2.5S, 2W<br>Crown Clearance (m): 0.5<br>Lowest Branch (m): 0<br>Life Stage: Mature<br>Rem. Contrib.: 30+ Years |                                                                                    | B2<br><br>RPA<br>Radius: 3.1m.<br>Area: 30 sq m. |                 |
| T02  | Lawson cypress<br>(Chamaecyparis lawsoniana)                                                                                                                                               | Height (m): 15<br>Stem Diam(mm): 260<br>Spread (m): 1.5N, 1.5E, 3S, 1W<br>Crown Clearance (m): 1<br>Life Stage: Mature<br>Rem. Contrib.: 30+ Years                                |                                                                                    | B2<br><br>RPA<br>Radius: 3.1m.<br>Area: 30 sq m. |                 |
| T03  | Lawson cypress<br>(Chamaecyparis lawsoniana)                                                                                                                                               | Height (m): 16<br>Stem Diam(mm): 360<br>Spread (m): 3N, 2E, 2.5S, 3W<br>Life Stage: Mature<br>Rem. Contrib.: 30+ Years                                                            |                                                                                    | B2<br><br>RPA<br>Radius: 4.3m.<br>Area: 58 sq m. |                 |

| Ref. | Species                                               | Measurements                                                                                                                                                                       | General Observations                                                  | Category                                            | Recommendations |
|------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------|-----------------|
| T04  | Lawson cypress<br>( <i>Chamaecyparis lawsoniana</i> ) | Height (m): 9<br>3 stems (mm): 300,200,100<br>Spread (m): 2N, 1E, 2S, 2.5W<br>Life Stage: Mature<br>Rem. Contrib.: 30+ Years                                                       | Union at base appears occluded                                        | C2<br><br>RPA<br>Radius: 4.5m.<br>Area: 64 sq m.    |                 |
| T05  | Yew<br>( <i>Taxus sp.</i> )                           | Height (m): 8.5<br>Stem Diam(mm): 500<br>Spread (m): 5.5N, 8E, 3S, 5.5W<br>Crown Clearance (m): 0<br>Life Stage: Mature<br>Rem. Contrib.: 40+ Years                                | Tree in physical contact with adjacent utility lines                  | B1,2<br><br>RPA<br>Radius: 6.0m.<br>Area: 113 sq m. |                 |
| T06  | Scots pine<br>( <i>Pinus sylvestris</i> )             | Height (m): 18<br>2 stems (mm): 450,450<br>Spread (m): 5.5N, 5E, 5.5S, 5.5W<br>Crown Clearance (m): 2<br>Lowest Branch (m): 5(S)<br>Life Stage: Mature<br>Rem. Contrib.: 40+ Years |                                                                       | A1,2<br><br>RPA<br>Radius: 7.6m.<br>Area: 181 sq m. |                 |
| T07  | Field maple<br>( <i>Acer campestre</i> )              | Height (m): 8.5<br>2 stems (mm): 400#,400<br>Spread (m): 7N, 7E, 4.5S, 7W<br>Life Stage: Over Mature<br>Rem. Contrib.: 30+ Years                                                   | Tree has been heavily pruned with stems heavily laden with ivy cover. | C2<br><br>RPA<br>Radius: 6.8m.<br>Area: 145 sq m.   |                 |
| T08  | Cherry<br>( <i>Prunus spp</i> )                       | Height (m): 6<br>Stem Diam(mm): 110<br>Spread (m): 2.5N, 2.5E, 2.5S, 2.5W<br>Life Stage: Early Mature<br>Rem. Contrib.: 30+ Years                                                  |                                                                       | C1<br><br>RPA<br>Radius: 1.3m.<br>Area: 5 sq m.     |                 |
| T09  | Holly<br>( <i>Ilex sp.</i> )                          | Height (m): 8.5<br>2 stems (mm): 350#,300<br>Spread (m): 3N, 3E, 3S, 3W<br>Crown Clearance (m): 0<br>Life Stage: Mature<br>Rem. Contrib.: 30+ Years                                |                                                                       | C2<br><br>RPA<br>Radius: 5.5m.<br>Area: 95 sq m.    |                 |

| Ref. | Species                                       | Measurements                                                                                                                                                                    | General Observations | Category                                             | Recommendations |
|------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------|-----------------|
| T10  | Deodar cedar<br>(Cedrus deodara)              | Height (m): 19<br>Stem Diam(mm): 850<br>Spread (m): 8.5N, 9E, 8.5S, 7W<br>Crown Clearance (m): 0<br>Lowest Branch (m): 3.5(N)<br>Life Stage: Mature<br>Rem. Contrib.: 40+ Years |                      | A1,2<br><br>RPA<br>Radius: 10.2m.<br>Area: 327 sq m. |                 |
| T11  | Lawson cypress<br>(Chamaecyparis lawsoniana)  | Height (m): 12<br>3 stems (mm): 420,100,100<br>Spread (m): 3.5N, 2E, 1S, 3.5W<br>Crown Clearance (m): 0<br>Life Stage: Mature<br>Rem. Contrib.: 30+ Years                       |                      | C2<br><br>RPA<br>Radius: 5.3m.<br>Area: 88 sq m.     |                 |
| T12  | Californian redwood<br>(Sequoia sempervirens) | Height (m): 20<br>Stem Diam(mm): 980<br>Spread (m): 4.5N, 4.5E, 4.5S, 4.5W<br>Crown Clearance (m): 0<br>Lowest Branch (m): 3<br>Life Stage: Mature<br>Rem. Contrib.: 40+ Years  |                      | A1,2<br><br>RPA<br>Radius: 11.8m.<br>Area: 437 sq m. |                 |
| T13  | Pedunculate oak<br>(Quercus robur)            | Height (m): 8<br>Stem Diam(mm): 260<br>Spread (m): 3.5N, 4.5E, 4.5S, 4.5W<br>Crown Clearance (m): 1.5<br>Life Stage: Early Mature<br>Rem. Contrib.: 40+ Years                   |                      | C1<br><br>RPA<br>Radius: 3.1m.<br>Area: 30 sq m.     |                 |
| T14  | Laburnum<br>(Laburnum sp.)                    | Height (m): 4<br>2 stems (mm): 80,80<br>Spread (m): 3.5N, 2E, 1S, 2W<br>Crown Clearance (m): 1.5<br>Life Stage: Mature<br>Rem. Contrib.: 20+ Years                              |                      | C1<br><br>RPA<br>Radius: 1.4m.<br>Area: 6 sq m.      |                 |

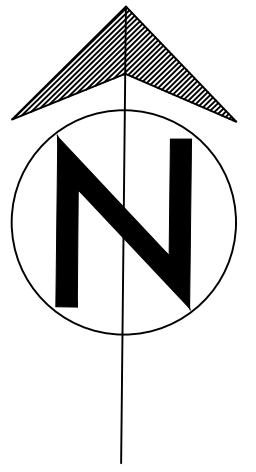
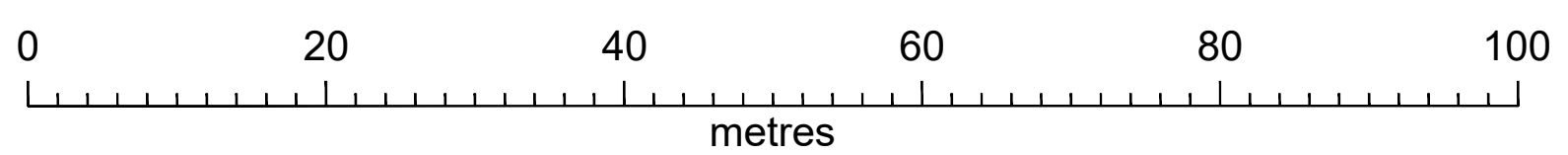
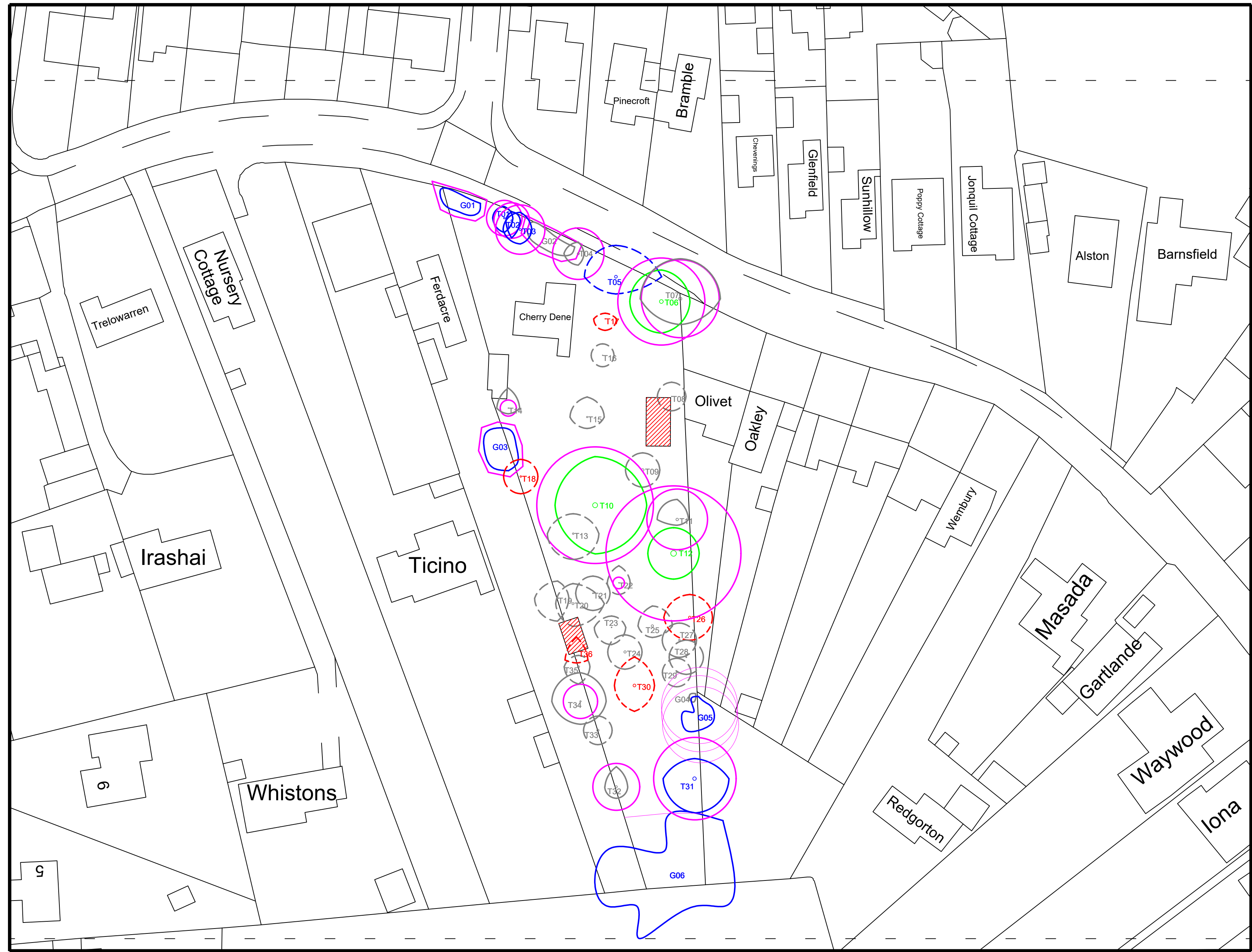
| Ref. | Species                                      | Measurements                                                                                                                                                                          | General Observations                            | Category                                                     | Recommendations |
|------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------|-----------------|
| T15  | Cherry<br>(Prunus spp)                       | Height (m): 5.5<br>3 stems (mm): 130,120,120<br>Spread (m): 3.5N, 3E, 2S, 3W<br>Crown Clearance (m): 1<br>Lowest Branch (m): 1.5(W)<br>Life Stage: Mature<br>Rem. Contrib.: 20+ Years |                                                 | C1<br><br>RPA<br>Radius: 2.6m.<br>Area: 21 sq m.             |                 |
| T16  | Weeping willow<br>(Salix babylonica)         | Height (m): 4<br>Stem Diam(mm): 100<br>Spread (m): 2N, 2E, 2S, 2W<br>Crown Clearance (m): 0<br>Life Stage: Mature<br>Rem. Contrib.: 20+ Years                                         |                                                 | C1<br><br>RPA<br>Radius: 1.2m.<br>Area: 5 sq m.              |                 |
| T17  | Holly<br>(Ilex sp.)                          | Height (m): 4<br>Stem Diam(mm): 110<br>Spread (m): 1N, 2E, 2S, 2W<br>Life Stage: Over Mature<br>Rem. Contrib.: <10 years                                                              | Irreversible decline                            | U<br><br>RPA<br>No RPA due to<br>Retention<br>Category of U. |                 |
| T18  | Lawson cypress<br>(Chamaecyparis lawsoniana) | Height (m): 9<br>Stem Diam(mm): 270<br>Spread (m): 3N, 3E, 3S, 3W<br>Crown Clearance (m): 2<br>Life Stage: Over Mature<br>Rem. Contrib.: 10+ Years                                    | Sparse foliage cover for species in high Summer | U<br><br>RPA<br>No RPA due to<br>Retention<br>Category of U. |                 |
| T19  | Holly<br>(Ilex sp.)                          | Height (m): 8.5<br>2 stems (mm): 190,120<br>Spread (m): 3N, 2E, 4S, 4W<br>Crown Clearance (m): 1.5<br>Lowest Branch (m): 2<br>Life Stage: Mature<br>Rem. Contrib.: 20+ Years          |                                                 | C1<br><br>RPA<br>Radius: 2.7m.<br>Area: 23 sq m.             |                 |
| T20  | Hazel<br>(Corylus avellana)                  | Height (m): 9<br>8 stems (mm): 150,150,150,120,100,100,100,100<br>Spread (m): 3.5N, 5.5E, 4S, 3W<br>Life Stage: Mature<br>Rem. Contrib.: 20+ Years                                    |                                                 | C1<br><br>RPA<br>Radius: 4.2m.<br>Area: 55 sq m.             |                 |

| Ref. | Species                                      | Measurements                                                                                                                                             | General Observations         | Category                                                     | Recommendations |
|------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------|-----------------|
| T21  | Silver birch<br>(Betula pendula)             | Height (m): 15<br>Stem Diam(mm): 160<br>Spread (m): 3N, 3E, 3S, 3W<br>Life Stage: Early Mature<br>Rem. Contrib.: 20+ Years                               |                              | C1<br><br>RPA<br>Radius: 1.9m.<br>Area: 11 sq m.             |                 |
| T22  | Silver birch<br>(Betula pendula)             | Height (m): 9<br>Stem Diam(mm): 80<br>Spread (m): 3N, 2E, 2S, 2W<br>Life Stage: Early Mature<br>Rem. Contrib.: 20+ Years                                 |                              | C1<br><br>RPA<br>Radius: 1.0m.<br>Area: 3 sq m.              |                 |
| T23  | Silver birch<br>(Betula pendula)             | Height (m): 11<br>Stem Diam(mm): 160<br>Spread (m): 2N, 2.5E, 3S, 3W<br>Crown Clearance (m): 1.5<br>Life Stage: Early Mature<br>Rem. Contrib.: 20+ Years |                              | C1<br><br>RPA<br>Radius: 1.9m.<br>Area: 11 sq m.             |                 |
| T24  | Lawson cypress<br>(Chamaecyparis lawsoniana) | Height (m): 17<br>Stem Diam(mm): 400<br>Spread (m): 3N, 3E, 3S, 3W<br>Life Stage: Mature<br>Rem. Contrib.: 20+ Years                                     |                              | C1,2<br><br>RPA<br>Radius: 4.8m.<br>Area: 72 sq m.           |                 |
| T25  | Lawson cypress<br>(Chamaecyparis lawsoniana) | Height (m): 14<br>Stem Diam(mm): 400<br>Spread (m): 3.5N, 3.5E, 2S, 2.5W<br>Life Stage: Mature<br>Rem. Contrib.: 20+ Years                               |                              | C1<br><br>RPA<br>Radius: 4.8m.<br>Area: 72 sq m.             |                 |
| T26  | Cherry<br>(Prunus spp)                       | Height (m): 17<br>Stem Diam(mm): 400<br>Spread (m): 4N, 4#E, 4S, 4.5W<br>Life Stage: Over Mature<br>Rem. Contrib.: <10 years                             | Tree in irreversible decline | U<br><br>RPA<br>No RPA due to<br>Retention<br>Category of U. |                 |

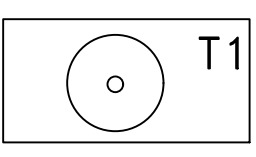
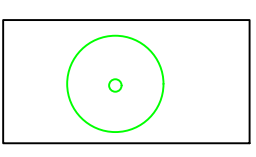
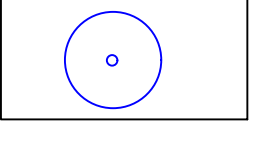
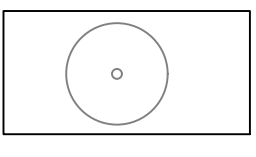
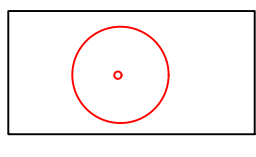
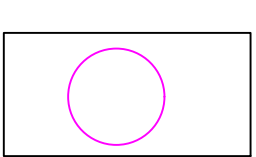
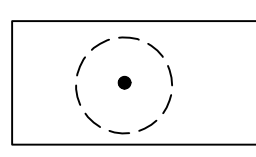
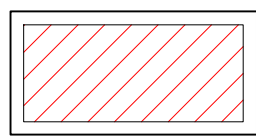
| Ref. | Species                                      | Measurements                                                                                                                                                                   | General Observations             | Category                                                     | Recommendations |
|------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------|-----------------|
| T27  | Larch<br>(Larix sp.)                         | Height (m): 20<br>Stem Diam(mm): 280<br>Spread (m): 3N, 3E, 3S, 3W<br>Life Stage: Mature<br>Rem. Contrib.: 20+ Years                                                           | Dieback noted in canopy (upper)  | C1<br><br>RPA<br>Radius: 3.4m.<br>Area: 36 sq m.             |                 |
| T28  | Larch<br>(Larix sp.)                         | Height (m): 9<br>Stem Diam(mm): 190<br>Spread (m): 3N, 3E, 3S, 3W<br>Life Stage: Early Mature<br>Rem. Contrib.: 20+ Years                                                      |                                  | C1<br><br>RPA<br>Radius: 2.3m.<br>Area: 17 sq m.             |                 |
| T29  | Larch<br>(Larix sp.)                         | Height (m): 16<br>Stem Diam(mm): 230<br>Spread (m): 2.5N, 2.5E, 2.5S, 2.5W<br>Life Stage: Mature<br>Rem. Contrib.: 20+ Years                                                   |                                  | C1<br><br>RPA<br>Radius: 2.8m.<br>Area: 25 sq m.             |                 |
| T30  | Larch<br>(Larix sp.)                         | Height (m): 20<br>Stem Diam(mm): 500<br>Spread (m): 5N, 3.5E, 4.5S, 3.5W<br>Life Stage: Over Mature<br>Rem. Contrib.: <10 years                                                | Dieback noted throughout canopy  | U<br><br>RPA<br>No RPA due to<br>Retention<br>Category of U. |                 |
| T31  | Sweet chestnut<br>(Castanea sativa)          | Height (m): 20<br>Stem Diam(mm): 600<br>Spread (m): 3.5N, 6#E, 6S, 5.5W<br>Crown Clearance (m): 2<br>Lowest Branch (m): 4(W)<br>Life Stage: Mature<br>Rem. Contrib.: 30+ Years | Deadwood noted throughout canopy | B1,2<br><br>RPA<br>Radius: 7.2m.<br>Area: 163 sq m.          |                 |
| T32  | Lawson cypress<br>(Chamaecyparis lawsoniana) | Height (m): 13<br>2 stems (mm): 300,170<br>Spread (m): 3.5N, 2E, 2S, 2W<br>Crown Clearance (m): 2<br>Life Stage: Mature<br>Rem. Contrib.: 20+ Years                            |                                  | C1<br><br>RPA<br>Radius: 4.1m.<br>Area: 53 sq m.             |                 |

| Ref. | Species                                               | Measurements                                                                                                                   | General Observations                                                                  | Category                                                  | Recommendations |
|------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------|
| T33  | Lawson cypress<br>( <i>Chamaecyparis lawsoniana</i> ) | Height (m): 17<br>Stem Diam(mm): 400<br>Spread (m): 2.5N, 2.5E, 2.5S, 2.5W<br>Life Stage: Mature<br>Rem. Contrib.: 20+ Years   |                                                                                       | C1<br><br>RPA<br>Radius: 4.8m.<br>Area: 72 sq m.          |                 |
| T34  | Ash<br>( <i>Fraxinus</i> sp.)                         | Height (m): 10<br>Stem Diam(mm): 250#<br>Spread (m): 5N, 4.5E, 4S, 5#W<br>Life Stage: Early Mature<br>Rem. Contrib.: 20+ Years |                                                                                       | C2<br><br>RPA<br>Radius: 3.0m.<br>Area: 28 sq m.          |                 |
| T35  | Lawson cypress<br>( <i>Chamaecyparis lawsoniana</i> ) | Height (m): 19<br>Stem Diam(mm): 380<br>Spread (m): 2N, 2E, 3S, 2.5#W<br>Life Stage: Mature<br>Rem. Contrib.: 20+ Years        |                                                                                       | C1<br><br>RPA<br>Radius: 4.6m.<br>Area: 66 sq m.          |                 |
| T36  | Lawson cypress<br>( <i>Chamaecyparis lawsoniana</i> ) | Height (m): 6<br>Stem Diam(mm): 120<br>Spread (m): 4N, 2E, 0.5S, 2W<br>Life Stage: Mature<br>Rem. Contrib.: <10 years          | Tree leans heavily towards NW<br>Poor overall Physiological and Structural condition. | U<br><br>RPA<br>No RPA due to Retention<br>Category of U. |                 |

# Arb Constraints Plan



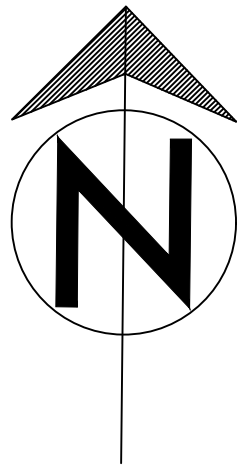
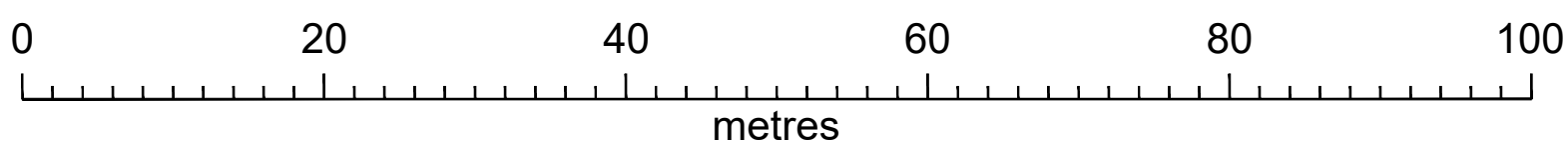
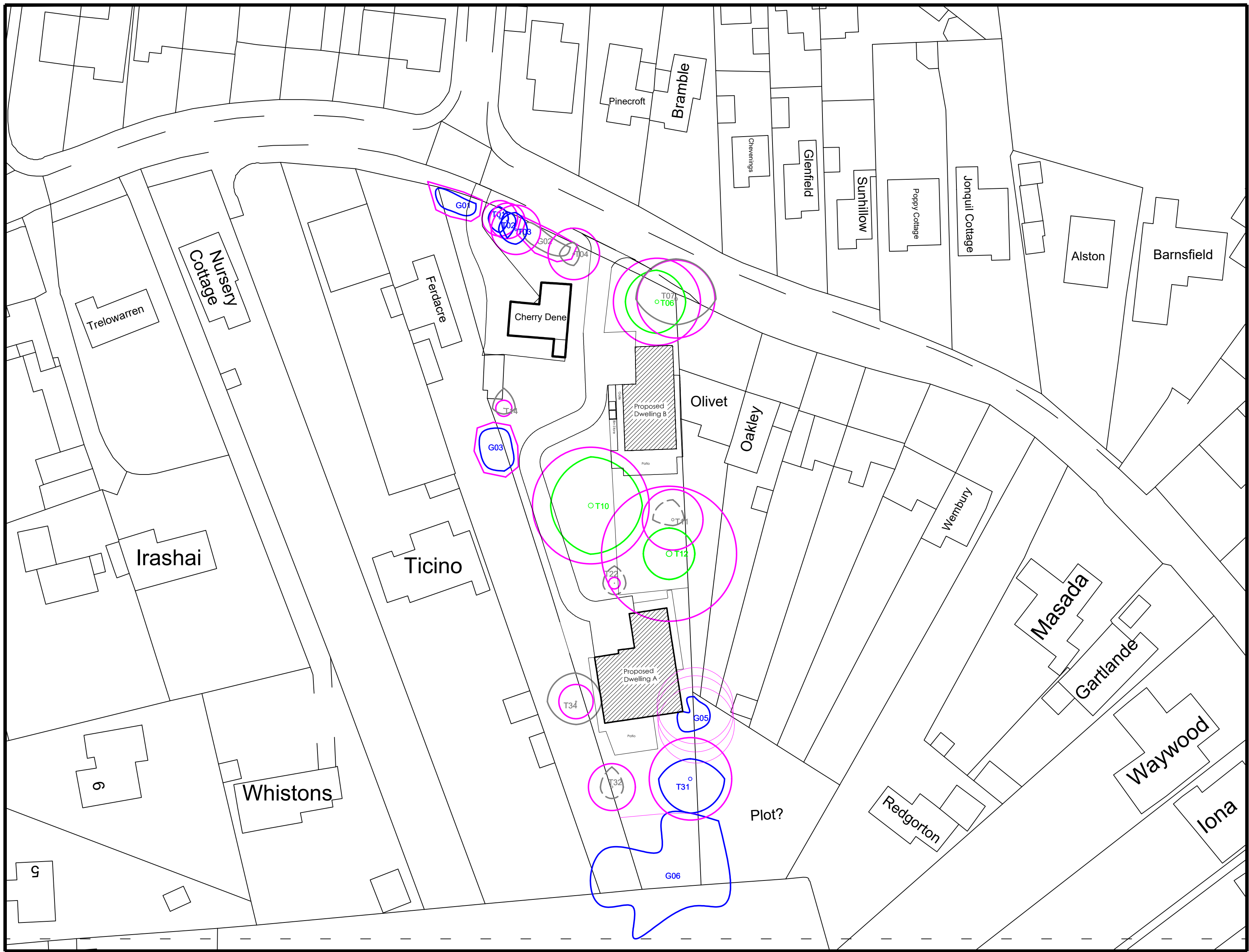
## Arboricultural Constraints Plan

-  T1 Existing Tree colour referenced in accordance with BS 5837 2012 as shown below
-  Green – Cat A Trees of high quality and value
-  Blue – Cat B Trees of moderate quality and value
-  Grey – Cat C Trees of low quality and value
-  Red – Cat U Trees that are dead or showing signs of irreversible decline
-  Root Protection Area as calculated in accordance with BS 5837 2012
-  Existing tree to be removed colour in accordance with BS 5837 as shown below.
-  Existing Structure to be Demolished.

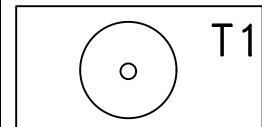
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|-----------------------------------------------------------------|------------|-----------------------|-----------|
|                                                                 |            |                       |           |
| 1                                                               | 2          | 3                     | 4         |
|                                                                 |            |                       |           |
| REV.                                                            | DATE       | INITIALS              | DETAILS   |
|                                                                 |            |                       |           |
| CLIENT                                                          |            | DWG. TITLE            |           |
| Architek Design/Planning Ltd                                    |            | Arb. Constraints Plan |           |
| SITE                                                            |            |                       |           |
| Land at Cherry Dene, Norwood Lane, Meopham, Gravesend, DA13 0HX |            |                       |           |
| DRAWN BY                                                        | CHECKED BY | SCALE                 | DATE      |
| BJS                                                             | BJS        | 1:500 ● A1            | July 2024 |
| DWG NO.                                                         |            | REV.                  |           |
| CAS/2023/197A                                                   |            |                       |           |

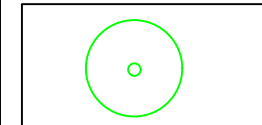
Please do not scale off this drawing. Tree locations not plotted to a topographical survey so locations cannot be confirmed, Dwg is to scale as indicated above.

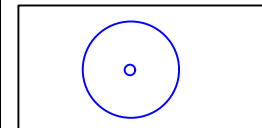
# Proposed Development Plan

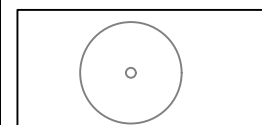


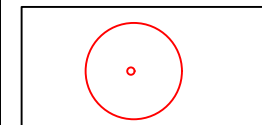
## Proposed Development Plan

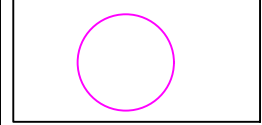
 T1 Existing Tree colour referenced in accordance with BS 5837 2012 as shown below

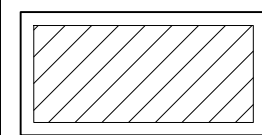
 Green – Cat A Trees of high quality and value

 Blue – Cat B Trees of moderate quality and value

 Grey – Cat C Trees of low quality and value

 Red – Cat U Trees that are dead or showing signs of irreversible decline

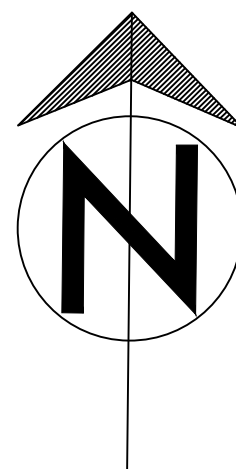
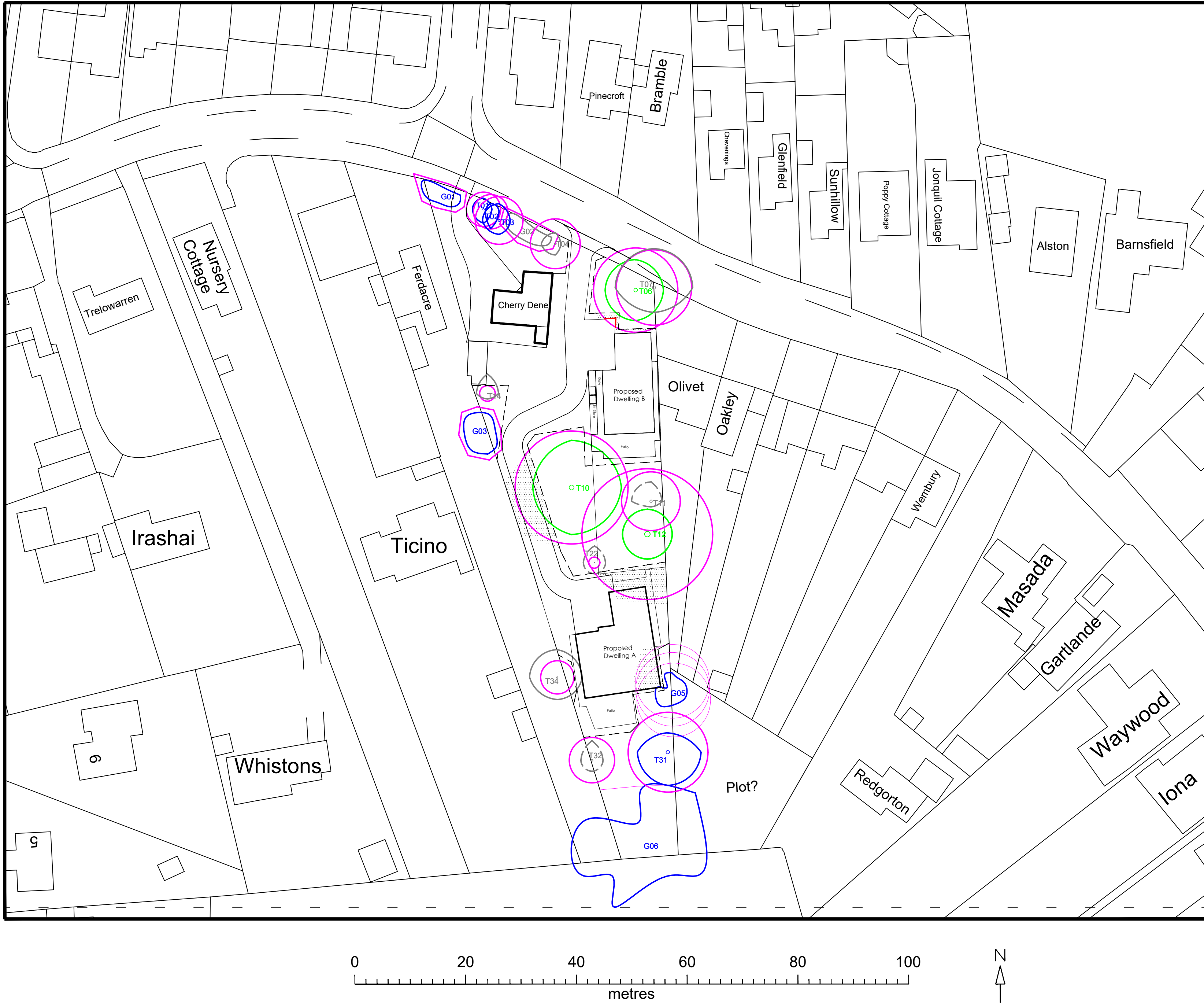
 Root Protection Area as calculated in accordance with BS 5837 2012

 Location of New Houses.

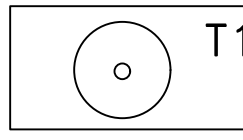
|                                                                 |            |                           |           |
|-----------------------------------------------------------------|------------|---------------------------|-----------|
|                                                                 |            |                           |           |
| ..                                                              | .          | .                         | .         |
| ..                                                              | .          | .                         | .         |
| REV. DATE INITIALS DETAILS                                      |            |                           |           |
|                                                                 |            |                           |           |
| CLIENT                                                          |            | DWG. TITLE                |           |
| Architek Design/Planning Ltd                                    |            | Proposed Development Plan |           |
| SITE                                                            |            |                           |           |
| Land at Cherry Dene, Norwood Lane, Meopham, Gravesend, DA13 0HX |            |                           |           |
| DRAWN BY                                                        | CHECKED BY | SCALE                     | DATE      |
| BJS                                                             | BJS        | 1:500 @ A1                | July 2024 |
| DWG NO.                                                         |            | REV.                      |           |
| CAS/2023/197A                                                   |            |                           |           |

Please do not scale off this drawing. Tree locations not plotted to a topographical survey so locations cannot be confirmed, Dwg is to scale as indicated above.

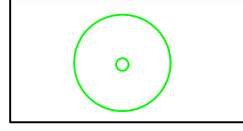
# Tree Protection Plan



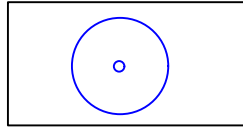
# Tree Protection Plan



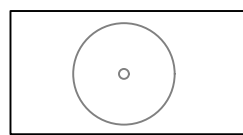
Existing Tree colour  
referenced in  
accordance with BS  
5837 2012 as shown  
below



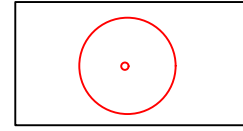
Green – Cat A Trees  
of high quality and  
value



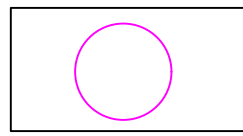
Blue – Cat B Trees  
of moderate quality  
and value



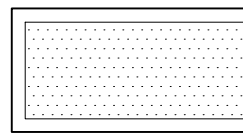
Grey – Cat C Trees  
of low quality and  
value



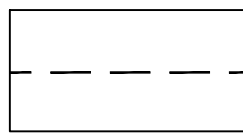
Red – Cat U Trees  
that are dead or  
showing signs of  
irreversible decline



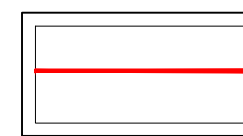
|                                                                             |
|-----------------------------------------------------------------------------|
| Root Protection Area<br>as calculated in<br>accordance with BS<br>5837 2012 |
|-----------------------------------------------------------------------------|



Area Designated for  
Ground Protection.



Approximate line of protective fencing to be erected in accordance with BS5837 and to be maintained throughout entire development process.



Location of Root  
Pruning Trench.

|                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                      |           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------|-----------|
| <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></div> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></div> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></div> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></div> </div> |            |                      |           |
| REV.                                                                                                                                                                                                                                                                                                                                                                                                                   | DATE       | INITIALS             | DETAILS   |
| CLIENT                                                                                                                                                                                                                                                                                                                                                                                                                 |            | DWG. TITLE           |           |
| Architek Design/Planning Ltd                                                                                                                                                                                                                                                                                                                                                                                           |            | Tree Protection Plan |           |
| SITE                                                                                                                                                                                                                                                                                                                                                                                                                   |            |                      |           |
| Land at Cherry Dene, Norwood Lane, Meopham, Gravesend, DA13 0HX                                                                                                                                                                                                                                                                                                                                                        |            |                      |           |
| DRAWN BY                                                                                                                                                                                                                                                                                                                                                                                                               | CHECKED BY | SCALE                | DATE      |
| BJS                                                                                                                                                                                                                                                                                                                                                                                                                    | BJS        | 1:500 @ A1           | July 2024 |
|                                                                                                                                                                                                                                                                                                                                                                                                                        |            | DWG NO.              | REV.      |
|                                                                                                                                                                                                                                                                                                                                                                                                                        |            | CAS/2023/197A        |           |

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