



**BARNCROFT SCHOOL  
HAVANT, HAMPSHIRE  
ARBORICULTURAL  
REPORT**

**Date:** February 2011  
**Our Ref:** JSL1786

**RPS**  
Lakesbury House  
Hiltingbury Road  
Chandlers Ford  
Hampshire  
SO53 5SS

**Tel:** 023 8081 0440  
**Fax:** 023 8081 0449  
**Email:** [rpsso@rpsgroup.com](mailto:rpsso@rpsgroup.com)

## QUALITY MANAGEMENT

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|                                           |                         |
|-------------------------------------------|-------------------------|
| Prepared by:                              | <b>Chris Chambers</b>   |
| Authorised by:                            | <b>David Cox</b>        |
| Date:                                     | <b>04 February 2011</b> |
| <b>Project Number/Document Reference:</b> | <b>JSL1786</b>          |

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## EXECUTIVE SUMMARY

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- An Existing Amenity Vegetation Survey was undertaken by RPS on the 21<sup>st</sup> of January 2011. The weather conditions were cool, generally sunny with light winds.
- The survey covered the trees within and immediately adjacent to Barncroft School and concentrates on two areas of disposal land, the Infants School site off Barncroft Way and a smaller area of land, within the Junior School, off Park Lane.
- The findings of this report broadly accord with those of the report produced by HED in 2008. The trees on the site generally consist trees planted to reflect the school facilities on the Barncroft Road Site and areas of pioneer regeneration woodland and scrub located on the Park Lane Site to the south.
- The tree cover on the Barncroft Way Site is limited, with only a small number of individual trees of any potential. There are a number of small mixed species tree groupings within the site of limited amenity value and a densely planted periphery planting on the south-east boundary which has suffered from a lack of any proactive management over the years which is accordingly noted as having is of relatively low amenity value.
- The Park Lane site to the south of the main school site consists chiefly number of self seeded tree groups and lased coppice stools. The understory and central section of this site is thick with bramble and ruderal weed and recently regenerated trees. The importance of the trees on this site to the wider landscape amenity is limited.
- Owing to the extensive ivy growth and fissuring on a number of the mature trees, it is considered that they may have the potential for providing bat roosts. The stands of trees and within the site may also possess bat foraging and bird nesting potential. It is recommended that consideration be given to ecological surveys, and that this is considered when developing a programme for the works.
- All retained trees within close proximity of any proposed development will require protection as detailed in the tree protection plan (appendix 3) prepared in accordance with BS5837:2005, Section 7.
- The retention and protection of existing trees should be given further consideration as part of any redevelopment planning. This should also include provision for the eventual size, in terms of both height and spread, of existing young and middle-aged trees at maturity; the potential impact on and conflict with both tree roots and canopy; the impact of trees on future activities with regard to obstruction, shading, leaf fall and root action.

# 1 INTRODUCTION

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- 1.1 The tree survey and arboricultural report was commissioned by Hampshire County Council and undertaken by RPS. The report updates a previous survey produced for the both school sites by HED (HED 2008) and concentrates on two areas of disposal land, the Infants School site off Barncroft Way and a smaller area of land, within the Junior School, off Park Lane.
- 1.2 This aim of the site survey and was to take note any changes to the condition of the trees and vegetation since the completion of the previous survey. This report documents this information and the relevant findings of the previous report have been appraised to identify the constraints associated with the trees prior to any potential redevelopment of the site.
- 1.3 The site survey was carried out by RPS on the 21<sup>st</sup> of January 2011. The weather conditions were cool and generally overcast.
- 1.4 The locations of the trees were based upon the survey produced by HCA and from Ordnance survey information provided by Hampshire County Council.
- 1.5 The Tree Survey identifies plant species, age and size. The survey also involved a qualitative assessment of the age class, general (apparent) physical condition and estimated remaining contribution (in years) of each individual tree or, where more appropriate, a group of trees. A brief visual inspection of the general health and condition of the trees was completed from the ground, further more detailed surveys may be required to completely detail the full condition of the trees. An assessment of the quality of the trees has been made, with reference to the categories listed within Table 1 - BS5837:2005.
- 1.6 The survey was carried out in general accordance with the requirements set out in BS5837: 2005 Trees in Relation to Construction – Recommendations.
- 1.7 The survey information was recorded on the attached schedules (Appendix 1) and Tree Survey and Tree Protection Plan RPS drawing (Appendix 3 and 4).

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## 2 SITE LOCATION

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- 2.1 The site is located in the town of Havant to the north west of Portsmouth, situated in the county of Hampshire and comprises the buildings of Barncroft School, playing fields and includes a number of small lightly wooded areas.
- 2.2 The site is immediately abounded by residential properties on three of the four site boundaries, the northern boundary has a access path between Park Lane and Barncroft Way. The southern boundary joins an area of long grass and large mature Oak trees, known as Hook's Row.
- 2.3 The report is concentrates on two areas of land, the Infants School site off Barncroft Way to the north east of the site and a smaller area of land, within the Junior School, off Park Lane to the south. The smaller site is accessible by foot from Park Lane and a foot path runs along Hook's Row, larger site by foot vehicle from Barncroft Way.

### 3 SURVEY METHODOLOGY

- 3.1 The tree survey involved a brief visual inspection from the ground of individual specimens and groups of trees in order to record their amenity value and general condition. Where observed, the general condition of all the trees has been noted. The survey does not constitute a full arboricultural condition assessment involving the detailed inspection of trees in relation to their structural condition, decay, and any other physical and pathogenic defects.
- 3.2 The locations of the trees were based upon an Ordinance Survey provided by Hampshire County and tree location from an survey produced by HED.
- 3.3 The survey information was recorded on the attached schedules (Appendix 1) in general accordance with the guidance contained within Section 4 of BS5837: 2005 Trees in relation to construction – Recommendations. These should be read in conjunction with RPS drawings in Appendix 3 and 4.
- 3.4 The information recorded includes the following:

|                                                 |                                                                                                                                                                                                                                  |                         |                                                                    |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------|
| <b>Tree Ref No:</b>                             | Reference number of individual specimens, groups of trees, woodlands and hedgerows that are also recorded on the tree survey plan.                                                                                               |                         |                                                                    |
| <b>Species</b>                                  | Latin (italic lettering) and Common names used where possible to aid identification on site.                                                                                                                                     |                         |                                                                    |
| <b>Height (m)</b>                               | Estimated height of canopy to nearest metre.                                                                                                                                                                                     |                         |                                                                    |
| <b>Crown Spread</b>                             | Estimated spread of canopy taken for the four cardinal points to nearest metre.                                                                                                                                                  |                         |                                                                    |
| <b>Stem diameter @ 1.5m (m)</b>                 | Diameter of trunk at 1.5m above ground level in metres unless otherwise indicated, multi-stemmed trees being measured at their root flare.                                                                                       |                         |                                                                    |
| <b>Stem No.</b>                                 | Number of stems (if necessary) of individual tree.                                                                                                                                                                               |                         |                                                                    |
| <b>Height of crown clearance (m)</b>            | Estimated height of clear stem/crown clearance above ground level in metres.                                                                                                                                                     |                         |                                                                    |
| <b>Age class</b>                                | Expressed as:-                                                                                                                                                                                                                   | Y<br>MA<br>M<br>OM<br>V | (Young)<br>(Middle Aged)<br>(Mature)<br>(Over-mature)<br>(Veteran) |
| <b>Physical Condition</b>                       | Apparent condition expressed as the following categories, based upon a brief visual inspection from the ground only:-                                                                                                            |                         | Good<br>Fair<br>Poor<br>Dead                                       |
| <b>Comments / Management Recommendations</b>    | Other relevant information not covered by the above including any obvious physical defects. Also preliminary recommendations for arboricultural work, further investigation or potential for wildlife habitats (not exhaustive). |                         |                                                                    |
| <b>Estimated remaining contribution (years)</b> | Estimated remaining contribution in years expressed as less than 10, 10-20, 20-40, more than 40.                                                                                                                                 |                         |                                                                    |

|                                      |                                                               |                                                                                                                                                                                                                                                                                                           |
|--------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tree Quality Assessment Value</b> | Category grading with regards to BS 5837:2005, expressed as:- | <b>A</b> (Trees/Vegetation of high quality and value)<br><b>B</b> (Vegetation of moderate quality and value)<br><b>C</b> (Trees/Vegetation of low quality and value)<br><b>R</b> (Trees/Vegetation recommended for management or possible removal or with a remaining contribution of less than 10 years) |
|--------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- 3.5 It is recommended that further arboricultural assessments be undertaken in order to assess the full health and safety of all trees which may possess structural or pathogenic conditions.

## 4 APPRAISAL

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### Generally

- 4.1 The findings of this report broadly accord with those of the report produced by HED in 2008. The trees on the site are of a limited age structure and generally consist trees planted to reflect the school facilities on the Barncroft Road Site and areas of pioneer regeneration located on the Park Lane Site to the south.
- 4.2 The south-eastern part of the site is bounded by the mature Oak trees off Hooks Way. These offsite trees have high amenity value and are important for screening the site to the Redbridge Grove.

### Barncroft Way Site

- 4.3 The tree cover on the Barncroft Way Site is limited, and the only individual trees of any stature are the London Plane (T3) which apart from a slight bias to the east has good long term potential and to a lesser extent (T2) a Whitebeam established in a low planter. The London Plane is located at the entrance of the site and should eventually develop into a tree of stature and provide an attractive addition to the surrounding landscape.
- 4.4 There are a number of smaller mixed species tree groupings within the site of limited amenity value. Many of these trees within these groups have developed with poor form and structural faults which may limit their long term potential.
- 4.5 To the south eastern part of the site adjacent and running parallel to Hook's Row is a boundary group (G2). This periphery planting was likely densely planted at its inception and has suffered from a lack of any proactive management over the years which has led to a number of drawn and moribund trees. Given the water tolerant nature of the remaining species within this planting suggests that this low lying area is waterlogged for much of the year. The trees are also suppressed from the large oak trees in Hooks Row further compounding the health and long term potential of this planting. The planting provides a partial screen to the site from the residences on the Redbridge Grove but this is limited, accordingly, this has been noted as having is of relatively low amenity value.

### Park Lane Site

- 4.6 This site consists of a roughly triangular shaped land to the south of the main school site. The species composition suggests that this low lying site is probably waterlogged for much of the year. The trees fall into a number of self seeded groups and lapsed coppice stools. On the north east corner a group of tall Poplar trees which appear at some point in the past to have been managed as coppice. The remaining trees are immature consisting largely native species chiefly self seeded in constrained conditions. The understory and central section of this site is thick with bramble and ruderal weed recently regenerated trees typically associated with brownfield sites. Their importance to the wider landscape amenity is limited.

## Site Planning Considerations

- 4.7 All retained trees within close proximity of any proposed development will require protection as prescribed by an arboricultural method statement and tree protection plan prepared in accordance with BS5837: 2005, Section 7.
- 4.8 The tree survey plan included within Appendix 3 of this report defines the root protection area (RPA) for each tree. During any site planning exercises the current and future growth potential of the trees should be considered.
- 4.9 No activities that result in excavations, changes in level or soil compaction should take place within the RPA of any retained trees, especially older mature trees. This would include the storage of materials, any construction work, trafficking by vehicles or even excessive trafficking by pedestrians.
- 4.10 The RPA for single stem trees equates to a radius 12 times the stem diameter of the tree at 1.5m above ground level or the extent of canopy spread, whichever is the greater. This should become a total exclusion zone during construction works and for any development. It should be fenced-off and protected in accordance with BS5837:2005. The canopy is likewise susceptible to damage during construction work and requires similar protection.
- 4.11 If some form of paved construction has to take place within the RPA then certain measures need to be adopted to avoid disturbance or damage to the roots and to maintain moisture infiltration and gaseous diffusion. These measures could include:-
- Avoiding changes to the ground level
  - Carefully reducing levels by hand to avoid damage to the bark of larger roots which should be further protected from drying out whilst exposed
  - The use of a suitable no-fines granular material which does not interfere with air exchange to the roots for replacement fill or as a sub-base
  - The use of a load suspension layer such as a three dimensional honeycomb system to minimise compaction
  - The use of proprietary load bearing tree soils which still allow oxygen and water to access the root system
  - The use of edge restraint systems which can be pegged or spiked into position without the need for deep foundations
  - The use of porous paving materials to allow air and moisture to penetrate to the rooting area.
- 4.12 Services likewise should be routed outside the existing or potential root zone of trees. Where it is unavoidable, then hand excavation should be employed to avoid damage to the larger roots and the services slid through or below the root system. Ducting should be used to carry cables. Trenchless techniques such as thrust boring could also be considered.

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- 4.13 The location and siting of new facilities near trees should consider the potential impact on and conflict with both tree roots and canopy. This should take into account the ultimate size of existing young and middle-aged trees at maturity. Conversely the impact of the tree on the activities should also be considered with regard to obstruction, shading, leaf fall and root action. These are problems that can be managed provided sufficient space is allowed for.

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## 5 CONCLUSION AND RECOMMENDATIONS

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- 5.1 On the Barncroft Way Site there are a number of tree groups that were identified with limited amenity value. In the context of any potential redevelopment these particular groupings may offer limited long term value. Accordingly, it is considered that their retention should not overtly determine any development opportunities.
- 5.2 Similarly, given the unfavourable and constrained growing conditions on the Park Lane Site in which the trees have established and the associated weak growth of much of the vegetation it is difficult to conceive how the existing tree stock could be retained and incorporated into any future plans.
- 5.3 In a number of circumstances tree groups could be retained, or partially retained, and managed in such a way to promote strong and healthy future growth. This may include coppicing species suited to waterlogged conditions, and thinning which would improve the health and extend the useful life of the trees.
- 5.4 New tree planting opportunities should be considered as part of any potential redevelopment, providing sufficient space for species with significant stature to grow out to maturity. This planning should aim to reflect the prevalent growing conditions.
- 5.5 The vegetation should be protected during the demolition and construction phase in accordance with the RPS Tree Protection Plan (Appendix 3)
- 5.6 Owing to the extensive ivy growth and fissuring on a number of the surveyed trees, it is considered that they may have the potential for bats. Large stands of trees and woodland copses within the site may also possess bat foraging and bird nesting potential. It is recommended that consideration be given to ecological surveys, and that this is considered when developing a programme for the works.

# APPENDIX 1

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## Tree Survey Schedules

**Tree survey schedule**

Site: Barncroft School, Havant

Revision: .

Dwg Reference:

Surveyor: CC

Project Ref: JSL1786

Date of survey: 18/01/11

| Tree Ref No: | Species                                                                                                                                         | Height (m) | Crown spread (m) |      |     |     | Stem diameter @ 1.5m (m) | Stem No. | Height of crown clearance (m) | Age class | Physical condition | Comments / Management recommendations                                                                                                                                                                                                                                  | Estimated remaining contribution (years) | BS Category |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------|------|-----|-----|--------------------------|----------|-------------------------------|-----------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------|
|              |                                                                                                                                                 |            | N                | E    | S   | W   |                          |          |                               |           |                    |                                                                                                                                                                                                                                                                        |                                          |             |
| 1            | <i>Crataegus monogyna</i><br>Common Hawthorn                                                                                                    | 7          | 3.0              | 4.0  | 5.0 | 3.0 | 0.15                     | 1        | 2                             | MA        | Fair               | Leans away (from the building), twisted bole bifurcates at 1.35m but tightly entwined. Fair apparent crown but limited in terms of proximity to building.                                                                                                              | -15                                      | C2          |
| 2            | <i>Sorbus aria</i><br>Whitebeam                                                                                                                 | 7          | 3.5              | 3.5  | 3.5 | 3.5 | 0.18                     | 1        | 7.5                           | Y         | Good               | Established in low raised planter. Tree is true to type with a well formed crown and no apparent decay or structural faults.                                                                                                                                           | +15                                      | B2          |
| 3            | <i>Platanus x acerifolia</i><br>London Plane                                                                                                    | 16         | 10.0             | 10.0 | 8.0 | 8.0 | 0.43                     | 1        | 3.5                           | MA        | Fair               | Slight bias to the east. In good general condition.                                                                                                                                                                                                                    | +25                                      | B2          |
| 4            | <i>Acer campestre</i><br>Fiel Maple                                                                                                             | 7          | 5.0              | 5.0  | 3.0 | 3.0 | Aff 0.35                 | 3        | -                             | OM        | Poor               | Multi-stemmed and partially moribund with fruiting fungal bodies. Poor and in decline.                                                                                                                                                                                 | -15                                      | C2          |
| 5            | <i>Acer campestre</i><br>Fiel Maple                                                                                                             | 8          | 5.0              | 5.0  | 4.0 | 4.0 | Aff 0.4                  | 4        | -                             | OM        | Poor/ Fair         | Nest in crown. Multi-trunked specimen.                                                                                                                                                                                                                                 | -20                                      | C2          |
| G1           | <i>Fraxinus excelsior</i> , <i>Populus alba</i> , <i>Acer campestre</i><br>Ash, White Poplar, Field Maple                                       | 8-10       | See Plan         |      |     |     | Ave 0.25                 | -        | -                             | Y/MA      | Fair/ Poor         | Informal mixed tree group, chiefly field maple. A number of trees have included forks with limited long term potential.                                                                                                                                                | -15                                      | C2          |
| G2           | <i>Alnus glutinosa</i> , <i>Salix sp.</i> , <i>Betula sp.</i> , <i>Crataegus monogyna</i><br>Alder, Willow, Birch, Hawthorn                     | 8-10       | See Plan         |      |     |     | Ave 0.22                 | -        | -                             | Y/MA      | Fair/ Poor         | Mixed species grouping established in wet area. The scrub chiefly willow and alder are well suited to the conditions but lack of management means that a large number of trees are dead, dying or with limited long term potential. Understorey is dense with bramble. | -15                                      | C2          |
| G3           | <i>Acer campestre</i><br>Fiel Maple                                                                                                             | 16         | See Plan         |      |     |     | Ave 0.3                  | -        | -                             | MA        | Fair/Poor          | Group of similar aged trees collectively forms a fair group. Individually a number of the trees are in poor condition as a result of tree works and constrained conditions.                                                                                            | -15                                      | C2          |
| G4           | <i>Alnus glutinosa</i> , <i>Acer campestre</i> , <i>Sorbus aria</i> , <i>Platanus x acerifolia</i><br>Alder, Ash, Field Maple, Whitebeam, Plane | 7          | See Plan         |      |     |     | Ave 0.28                 | -        | -                             | MA        | Fair               | Chiefly Field maple, fair quality, limited long term potential.                                                                                                                                                                                                        | -20                                      | C2          |
| G5           | <i>Fraxinus excelsior</i><br>Ash x3                                                                                                             | 10         | See Plan         |      |     |     | Ave 0.2                  | 3        | -                             | Y/MA      | Fair/Poor          | Situated on the corner. Established in cramped conditions. Fair.                                                                                                                                                                                                       | +10                                      | C2          |
| G6           | <i>Fraxinus excelsior</i> , <i>Ulmus procera</i><br>Ash, Elm                                                                                    | 7          | See Plan         |      |     |     | Ave 0.15                 | -        | -                             | Y/MA      | Fair/Poor          | Self seed and scrappy closely established group.                                                                                                                                                                                                                       | +10                                      | C2          |
| G7           | <i>Salix sp./Alnus sp.</i><br>Willow/Alder                                                                                                      | 8          | See Plan         |      |     |     | Ave. 0.15                | -        | -                             | M         | Fair               | Willow rich grouping with a large coppice stool among scrub and re-generation.                                                                                                                                                                                         | +10                                      | C2          |
| G8           | <i>Salix sp./Alnus sp.</i> , <i>Fraxinus excelsior</i><br>Willow/Alder, Ash                                                                     | 7          | See Plan         |      |     |     | Ave 0.15                 | -        | -                             | M         | Fair               | Scrappy group bounding the chain link fence.                                                                                                                                                                                                                           | +10                                      | C2          |



Tree survey schedule

Site: Barncroft School, Havant

Revision: .

Dwg Reference:

Surveyor: CC

Project Ref: JSL1786

Date of survey: 18/01/11

| Tree Ref No: | Species                                                       | Height (m) | Crown spread (m) |   |   |   | Stem diameter @ 1.5m (m) | Stem No. | Height of crown clearance (m) | Age class | Physical condition | Comments / Management recommendations                      | Estimated remaining contribution (years) | BS Category |
|--------------|---------------------------------------------------------------|------------|------------------|---|---|---|--------------------------|----------|-------------------------------|-----------|--------------------|------------------------------------------------------------|------------------------------------------|-------------|
|              |                                                               |            | N                | E | S | W |                          |          |                               |           |                    |                                                            |                                          |             |
| G9           | <i>Alnus glutinosa</i><br>Alder                               | 8          | See Plan         |   |   |   | Ave 0.18                 | -        | -                             | MA        | Fair               | Small alder grouping.                                      | +15                                      | C2          |
| G10          | <i>Populus alba</i> , <i>Populus tremula</i><br>Poplar, Aspen | 16         | See Plan         |   |   |   | Ave ARF 0.6              | -        | -                             | OM        | Fair               | Lapsed pollard and suckers. Leaning, well established.+15C |                                          |             |

# APPENDIX 2

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Site Photographs



Boundary group (G2). This periphery planting was likely densely planted at its inception and has suffered from a lack of any proactive management over the years .



There are a number of smaller mixed species tree groupings which have developed with poor form and structural faults which may limit their long term potential.



Regenerated trees and ruderal vegetation immature consisting largely native species chiefly self seeded in cramped conditions typically associated with the Park Lane site.



Ash tree (G5) on the corner of the Park Lane site.

# APPENDIX 3

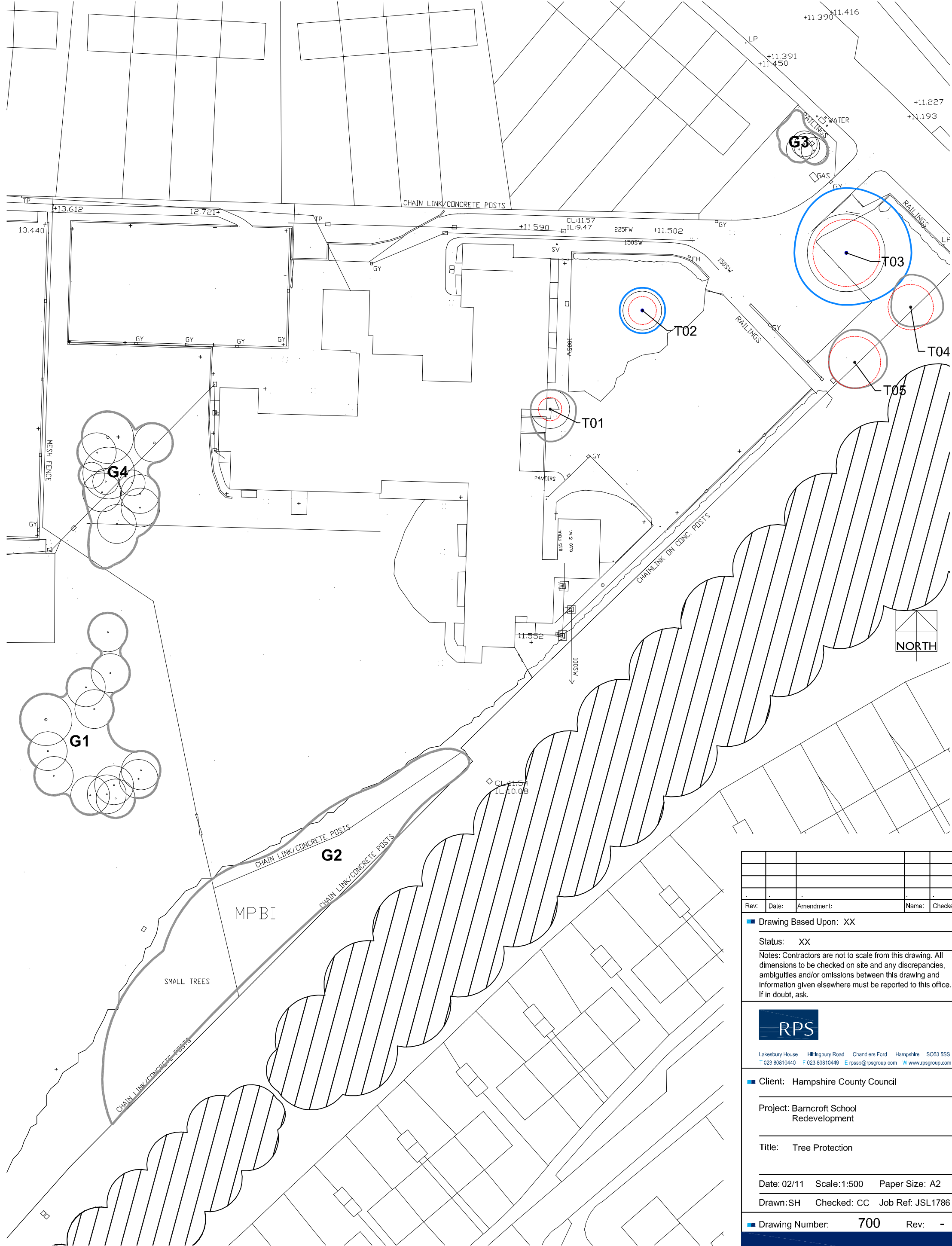
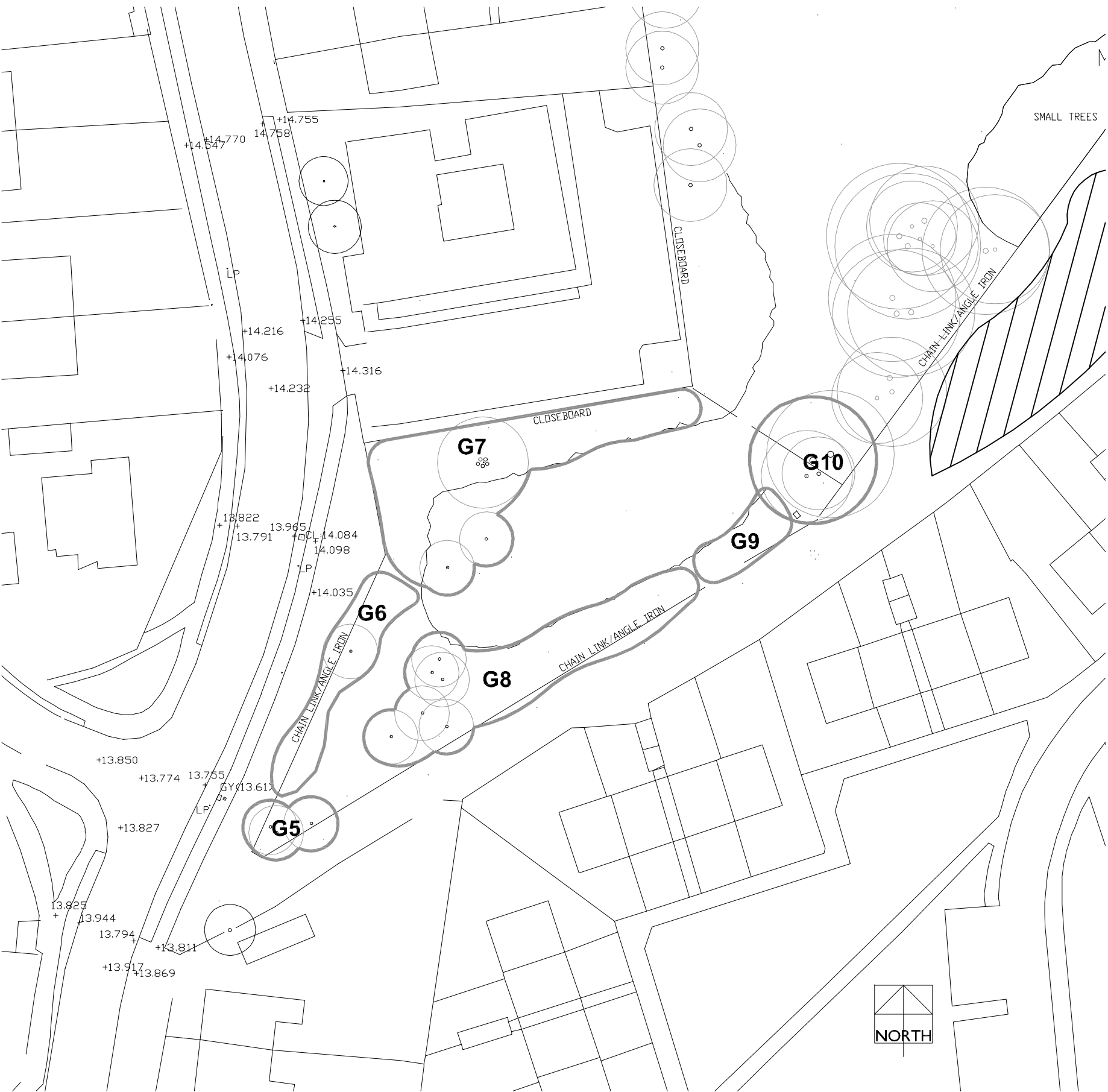
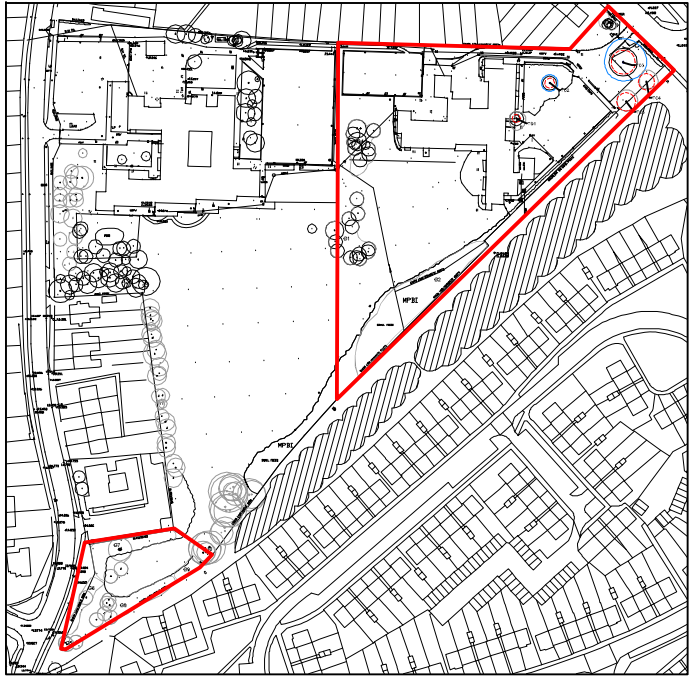
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Tree Survey Drawing JSL1786\_700

Key

- Survey boundary.
- Tree with numbered reference. Canopy spread and BS5837:2005 Colour Category as shown below.
- Vegetation group with numbered reference. Canopy spread and BS5837:2005 Category.
- Hedge with numbered reference. Width and BS5837:2005 Category.
- BS 5837:2005 Tree Quality Categories - Table 1
  - Category A - High quality
  - Category B - Moderate quality
  - Category C - Low quality
  - Category R - Remove
- Tree outside of survey area, shown for context only.
- Root protection area (RPA) in accordance with Table 2 - BS 5837:2005

- NOTES:
- Refer to RPS Tree Survey Report & Schedule for further details.
  - Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
  - Plan produced in accordance with recommendations set out in BS 5837:2005 - 'Trees in Relation to Construction'.
  - Due to the legal protection afforded to breeding birds vegetation removal should not take place during the bird nesting period; generally, although not restricted to, March - August inclusive.
  - Survey based upon topographic survey provided by Hampshire County Council



|                                                                                                                                                                                                                                                         |       |            |       |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-------|----------|
| Rev:                                                                                                                                                                                                                                                    | Date: | Amendment: | Name: | Checked: |
| ■ Drawing Based Upon: XX                                                                                                                                                                                                                                |       |            |       |          |
| Status: XX                                                                                                                                                                                                                                              |       |            |       |          |
| Notes: Contractors are not to scale from this drawing. All dimensions to be checked on site and any discrepancies, ambiguities and/or omissions between this drawing and information given elsewhere must be reported to this office. If in doubt, ask. |       |            |       |          |
|                                                                                                                                                                                                                                                         |       |            |       |          |
| Lakesbury House   Hillingbury Road   Chancery Ford   Hampshire   SO53 5SS<br>T: 023 80610443   F: 023 80610449   E: rpsa@rpsgroup.com   W: www.rpsgroup.com                                                                                             |       |            |       |          |
| ■ Client: Hampshire County Council                                                                                                                                                                                                                      |       |            |       |          |
| Project: Barncroft School Redevelopment                                                                                                                                                                                                                 |       |            |       |          |
| Title: Tree Protection                                                                                                                                                                                                                                  |       |            |       |          |
| Date: 02/11   Scale: 1:500   Paper Size: A2                                                                                                                                                                                                             |       |            |       |          |
| Drawn: SH   Checked: CC   Job Ref: JSL1786                                                                                                                                                                                                              |       |            |       |          |
| ■ Drawing Number: 700   Rev: -                                                                                                                                                                                                                          |       |            |       |          |

## **APPENDIX 4**

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Tree Protection Plan JSL1786\_701

|                                                                                   |                                                                                                                |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
|  | Survey boundary                                                                                                |
|  | Tree to be retained and protected with numbered reference. Canopy spread and BS5837:2005 Category.             |
|  | Vegetation group to be retained and protected with numbered reference. Canopy spread and BS5837:2005 Category. |

- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category R - Remove

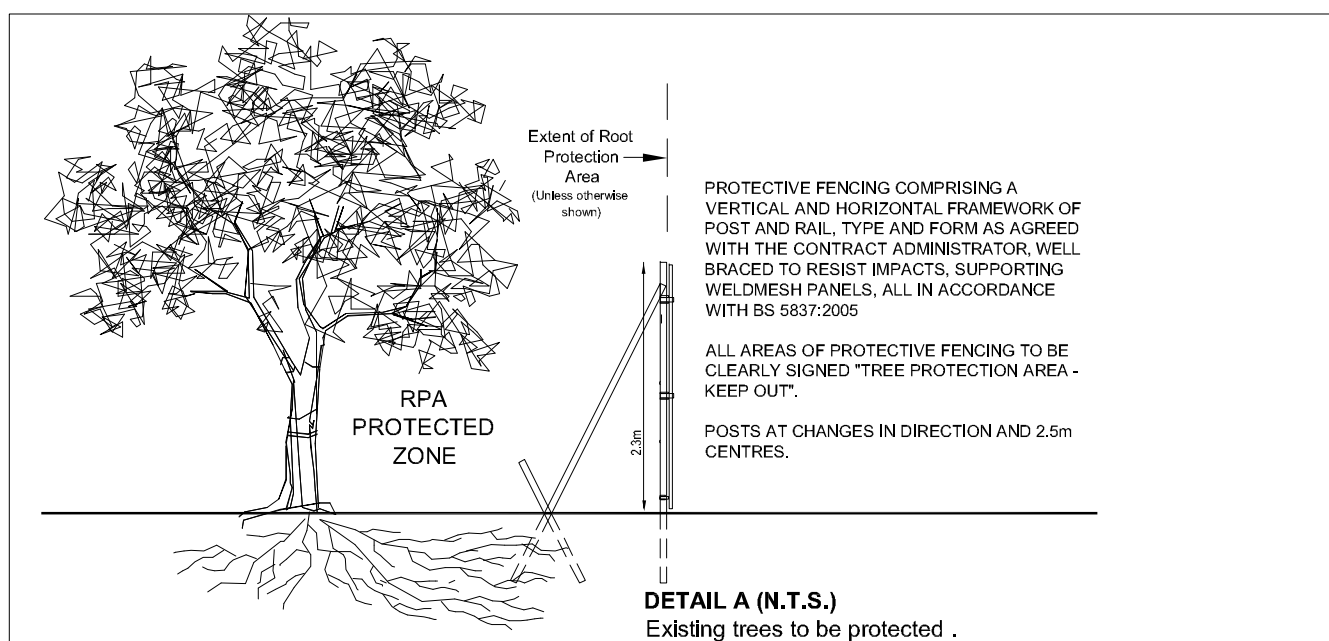
 Vegetation group or hedge to be removed with numbered reference. Canopy spread and BS5837:2005 Category.

 Temporary protective fencing in accordance with Fig2 - BS 5837:2005. See inset detail.

 Root protection area (RPA) in accordance with Table 2 - BS 5837:2005

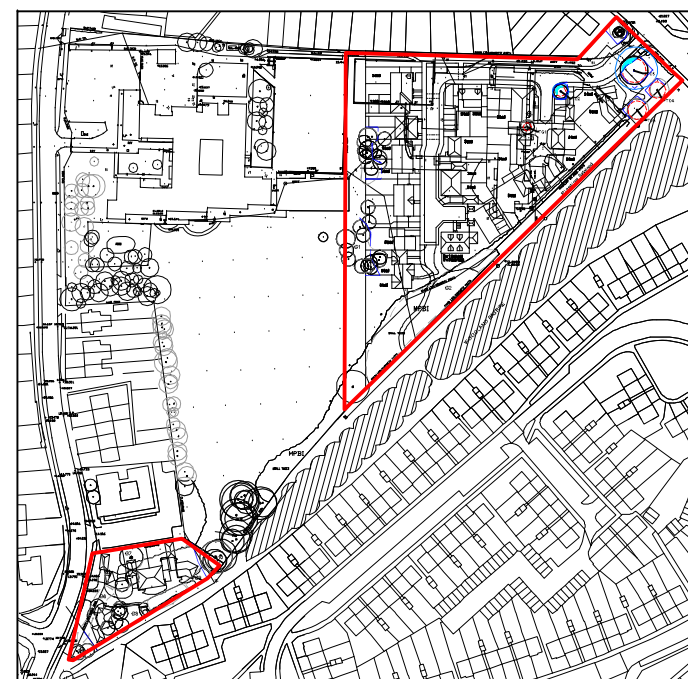
 Above ground construction requiring "No-dig" design principles in accordance with APN12.

 Offsite Woodland.

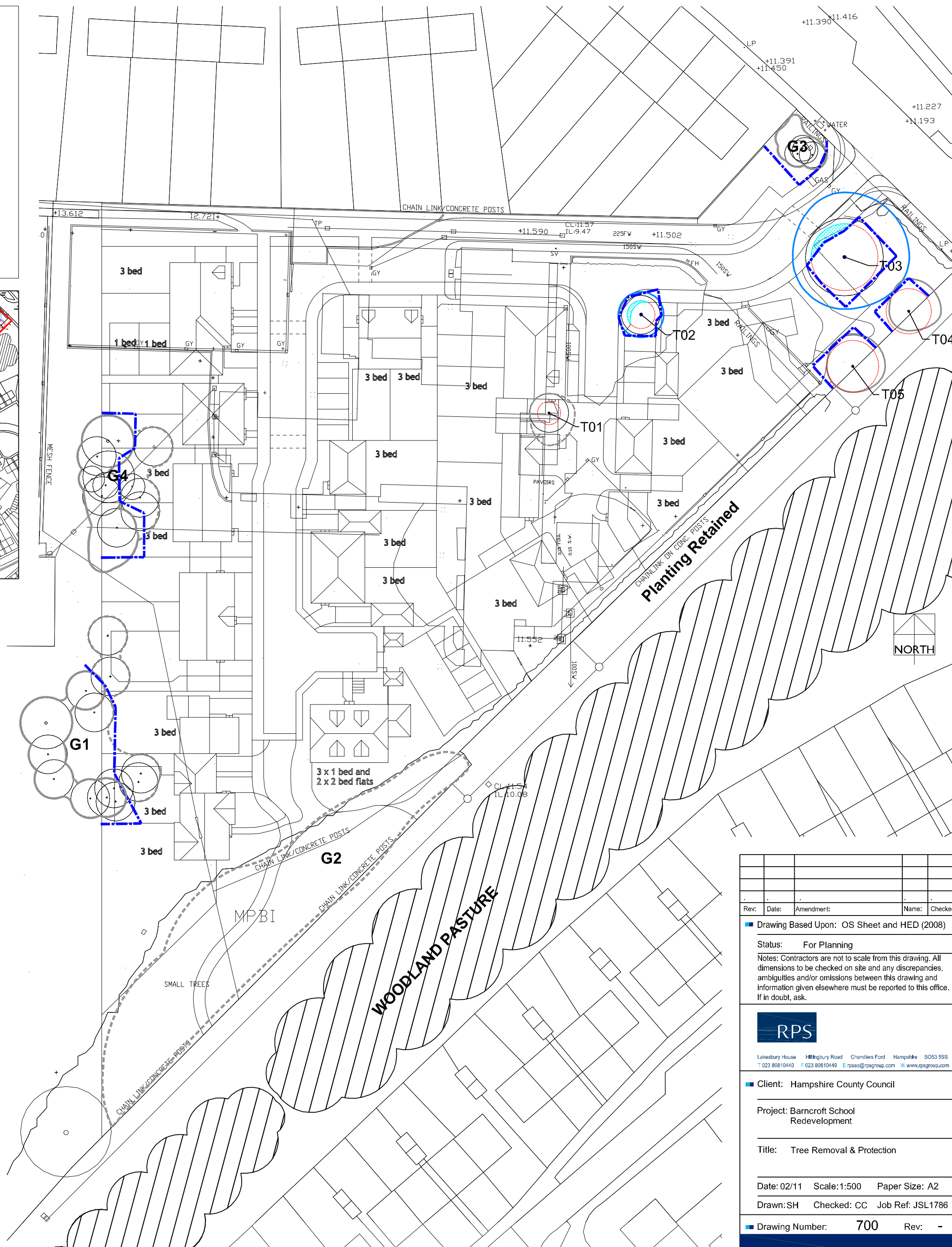
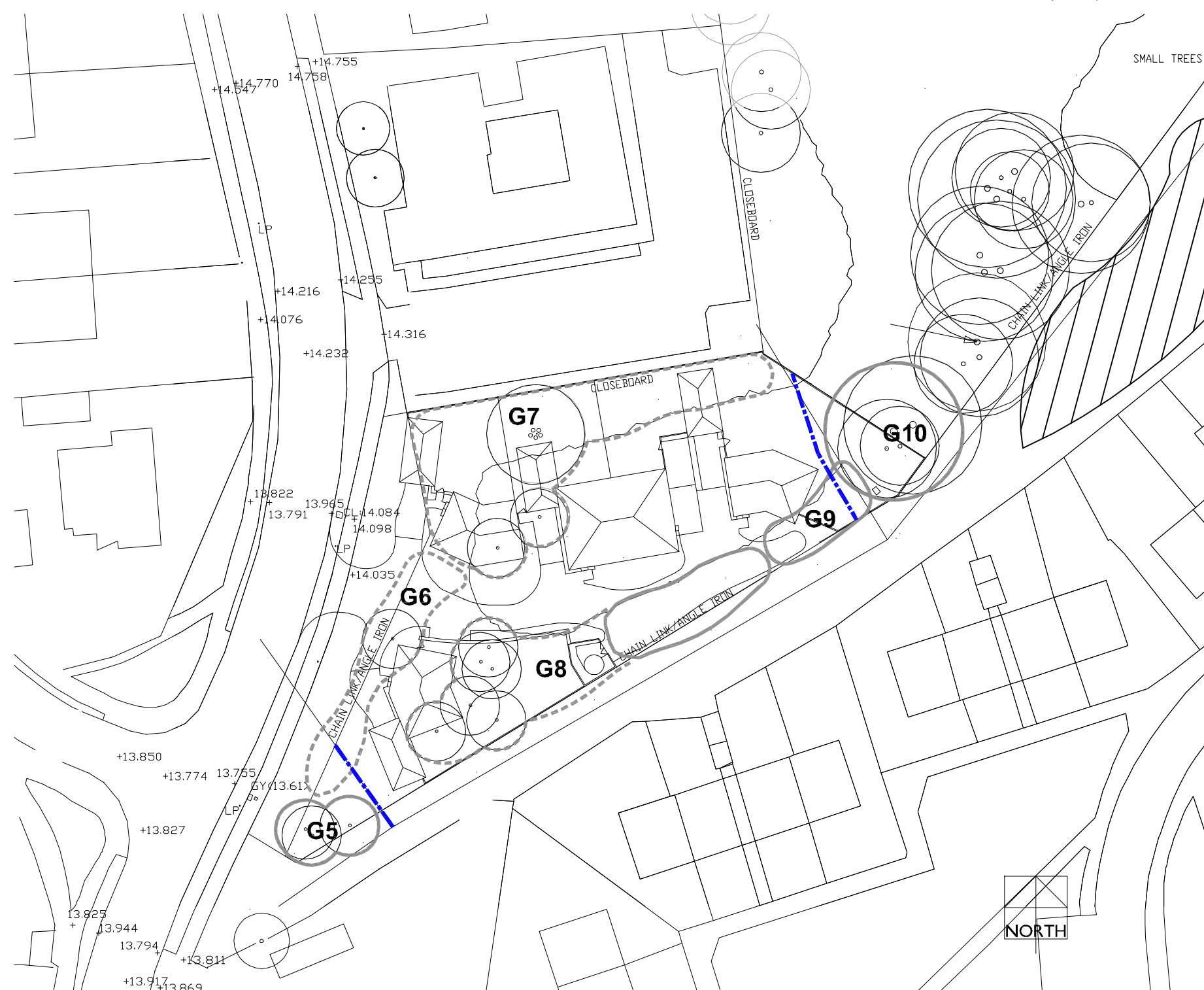


**DETAIL A (N.T.S.)**  
Existing trees to be protected .

- Refer to RPS Tree Survey Report & Schedule for further details.
- Plan produced in accordance with recommendations set out in BS 5837:2005 - 'Trees in Relation to Construction'.
- Due to the legal protection afforded to breeding birds vegetation removal should not take place during the bird nesting period; generally, although not restricted to, March - August inclusive.
- Pedestrian/ vehicular emergency access routes to be maintained at all times.
- All protective fencing to be completed and approved by LPA / CA prior to commencement of any site works.
- All Works to conform with requirements of:
  - BS 3998:1989 - Tree Works
  - BS 5837:2005 - Trees in Relation to Construction



Inset Location Plan (NTS)



|      |       |            |       |        |
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|      |       |            |       |        |
| Rev: | Date: | Amendment: | Name: | Checke |

■ Drawing Based Upon: OS Sheet and HED (2008)

|         |              |
|---------|--------------|
| Status: | For Planning |
|---------|--------------|

Notes: Contractors are not to scale from this drawing. All dimensions to be checked on site and any discrepancies, ambiguities and/or omissions between this drawing and information given elsewhere must be reported to this office. If in doubt, ask.



Lakesbury House   **Hillingbury Road**   Chandlers Ford   Hampshire   SO53 5SS  
T 023 80810440   F 023 80810449   E [rpsso@rpsgroup.com](mailto:rpsso@rpsgroup.com)   W [www.rpsgroup.com](http://www.rpsgroup.com)

Client: Hampshire County Council

Project: Barncroft School  
Redevelopment

Title: Tree Removal & Protection

Date: 02/11    Scale: 1:500    Paper Size: A2

Drawn: SH    Checked: CC    Job Ref: JSL1786

Drawing Number: 700 Rev: -