

## **APPENDICES**

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## Appendix A - Tree Schedule

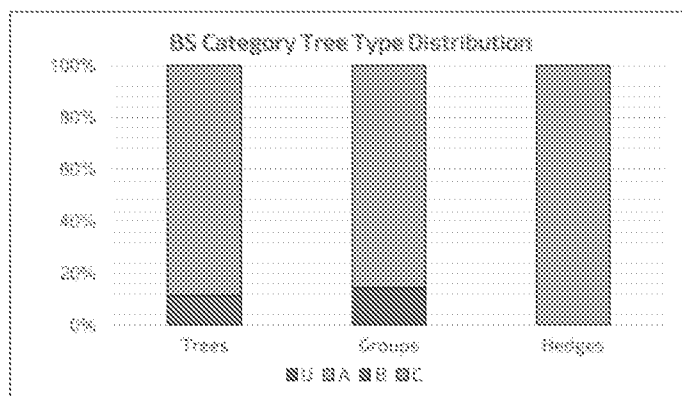
| Measurements                                                                                    | Age Classes                                                                                                                                                                                                                     | Quality Assessment of BS Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | USE (related to BS Category) |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>Height</b> - Measured using a digital laser clinometer (m)                                   | <b>YNG:</b> Establishing, typically with good vigour and fast growth rates and strong apical dominance; c. less than 1/3 life expectancy                                                                                        | <b>Category D</b> - 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.                                                                                                                                                                                                                                                                                                                          | <10 years                    |
| <b>Stem Dia.</b> - Diameter measured (mm) in accordance with Annex C of the BS5837              | <b>SM:</b> Semi-mature trees less than 1/3 life expectancy                                                                                                                                                                      | <b>Category A</b> - Trees of high quality with an estimated remaining life expectancy of at least 40 years.                                                                                                                                                                                                                                                                                                                                                                                        | 40+ years                    |
| <b>Crown Radius</b> - Measured using a digital laser clinometer radially from the main stem (m) | <b>EM:</b> Established, typically vigorous and increasing in apical height and lateral spread 1/3 - 2/3 life expectancy. Offers landscape significance                                                                          | <b>Category B</b> - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.                                                                                                                                                                                                                                                                                                                                                                                    | 20-40 years                  |
| <b>Abbreviations</b>                                                                            | <b>M:</b> Fully established over 2/3 life expectancy, generally good vigour and achieving full height potential with crown still spreading                                                                                      | <b>Category C</b> - Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm.                                                                                                                                                                                                                                                                                                                                        | 10-20 years                  |
| <b>est</b> - Estimated stem diameter                                                            | <b>OM:</b> Fully mature, at the extremes of expected life expectancy, vigour decreasing, declining or moribund                                                                                                                  | Other categories with additional landscape value:<br>(D) - <i>Mainly landscape value</i><br>(C) - <i>Mainly cultural or conservation value</i>                                                                                                                                                                                                                                                                                                                                                     |                              |
| <b>avg</b> - Average stem diameter for multiple stems                                           |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| <b>upto</b> - Maximum stem diameter of a group                                                  | Ecological, cultural or aesthetic value comprising niche saproxylic habitat. Individuals of large proportions (stem girth) in comparison to trees of the same species/surviving beyond the typical age range for their species. | The BS category particular consideration has been given to the following:<br><ul style="list-style-type: none"> <li>The presence of any structural defects in each tree/group and its future life expectancy</li> <li>The size and form of each tree/group and its suitability within the context of a proposed development</li> <li>The location of each tree relative to existing site features e.g. its screening value or landscape features</li> <li>Age class and life expectancy</li> </ul> |                              |

| Structural Condition                                                                                      | Physiological Condition                                                                    | Root Protection Area (RPA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Good</b> - No significant structural defects                                                           | <b>Good</b> - No significant health problems                                               | <ul style="list-style-type: none"> <li>The RPA Radius column provides the extent of an equivalent circle from the centre of the stem (m).</li> <li>The RPA is calculated using the formulae described in paragraph 4.5.3 of British Standard 5837:2012 and is indicative of the rooting area required for a tree to be successfully retained. Tree roots extend beyond the calculated RPA in many cases and where possible a greater distance should be protected.</li> <li>Where veteran trees have been identified a buffer zone has been calculated in accordance with Natural England guidance i.e. 15x the stem diameter, uncapped.</li> </ul> |
| <b>Fair</b> - Structural defects that can be remediated                                                   | <b>Fair</b> - Symptoms of ill-health that can be remediated                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Poor</b> - Significant defects beyond remediation, present a risk of failure in the foreseeable future | <b>Poor</b> - Significant ill-health. Unlikely the tree will recover in the long term      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Dead</b> - Dead tree with structural integrity of tree severely compromised                            | <b>Advanced Decline / Dead</b> - Advanced state of decline and unlikely to recover or Dead |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

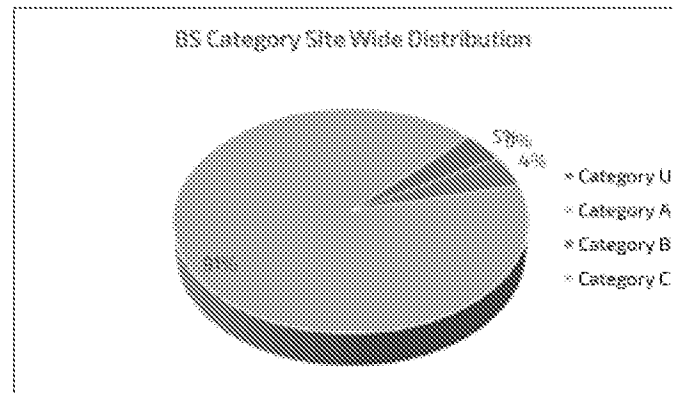
## Appendix Summary

|            | Individual Trees               | Totals | Tree Groups and Hedgerows                              | Totals |
|------------|--------------------------------|--------|--------------------------------------------------------|--------|
| Category D |                                | 0      |                                                        | 1      |
| Category A |                                | 0      |                                                        | 0      |
| Category B | T4                             | 1      |                                                        | 0      |
| Category C | T1, T2, T3, T5, T6, T7, T8, T9 | 8      | G1, G2, G3, G4, G5, G6, G7, H1, H2, H3, H4, H5, H6, H1 | 13     |
|            | Total                          | 9      | Total                                                  | 14     |

**85 Category Tree Type Distribution** displays the proportion of trees assessed in each type to enable a better understanding of the category distribution.



BS Category Site Wide Distribution shows the proportion of trees assessed in each category across the whole site which allows an interpretation of the site's overall quality.



| Tree No          | Species                                            | Height | Stem Dia   | Crown Radius                     | Age Class | Overall Condition | Structural Condition                                                                                                                                                                                                                                                                                                                 | RPA | RPA Radius | B55637 Cat |
|------------------|----------------------------------------------------|--------|------------|----------------------------------|-----------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|------------|
| INDIVIDUAL TREES |                                                    |        |            |                                  |           |                   |                                                                                                                                                                                                                                                                                                                                      |     |            |            |
| T1               | Hybrid Black Poplar<br><i>Populus x canadensis</i> | 18     | est<br>750 | 8                                | M         | P / F             | Situated offsite<br>Dense ivy from ground level to 8m<br>Extensive basal suckering<br>Crown has been heavily reduced in the past leaving large unsealed pruning wounds<br>Copious amounts of epicormic growth noted at wounded areas<br>Minor deadwood in canopy<br>Regrowth present from large pruning wounds when re-surveyed 2024 | 254 | 9.0        | C (i)      |
| T2               | Hybrid Black Poplar<br><i>Populus x canadensis</i> | 18     | est<br>800 | N - 6<br>S - 6<br>E - 6<br>W - 1 | M         | P / F             | Branch socket cavities observed<br>Branch stubs evident<br>Broken branches evident<br>Situated offsite<br>Dense ivy from ground level to 8m<br>Extensive basal suckering<br>Large diameter pruning wounds throughout the crown<br>Regrowth present from large pruning wounds when re-surveyed 2024                                   | 290 | 9.6        | C (i)      |
| T3               | Hybrid Black Poplar<br><i>Populus x canadensis</i> | 18     | est<br>800 | N - 6<br>S - 4<br>E - 0<br>W - 4 | M         | P / F             | Branch socket cavities observed<br>Branch stubs evident<br>Broken branches evident<br>Situated offsite<br>Extensive basal suckering<br>Large diameter pruning wounds throughout the crown<br>Regrowth present from large pruning wounds when re-surveyed 2024                                                                        | 290 | 9.6        | C (i)      |
| T4               | English Oak<br><i>Quercus robur</i>                | 12     | est<br>550 | 6                                | EM        | F                 | Base obscured<br>Broken branches evident<br>Characteristic for species<br>Dense undergrowth at the base<br>Epicormic growth evident within the crown<br>Minor dead wood evident in the crown (<75mm)<br>No major defects were noted                                                                                                  | 137 | 6.6        | B (i)      |
| T5               | English Oak<br><i>Quercus robur</i>                | 13     | est<br>600 | 5                                | M         | F                 | Situated on Bank of a ditch<br>Dieback of the crown<br>Minor deadwood throughout the crown<br>Broken branches and epicormic growth<br>Epigrowth present<br>Cat C given due to fair condition                                                                                                                                         | 163 | 7.2        | C (i)      |

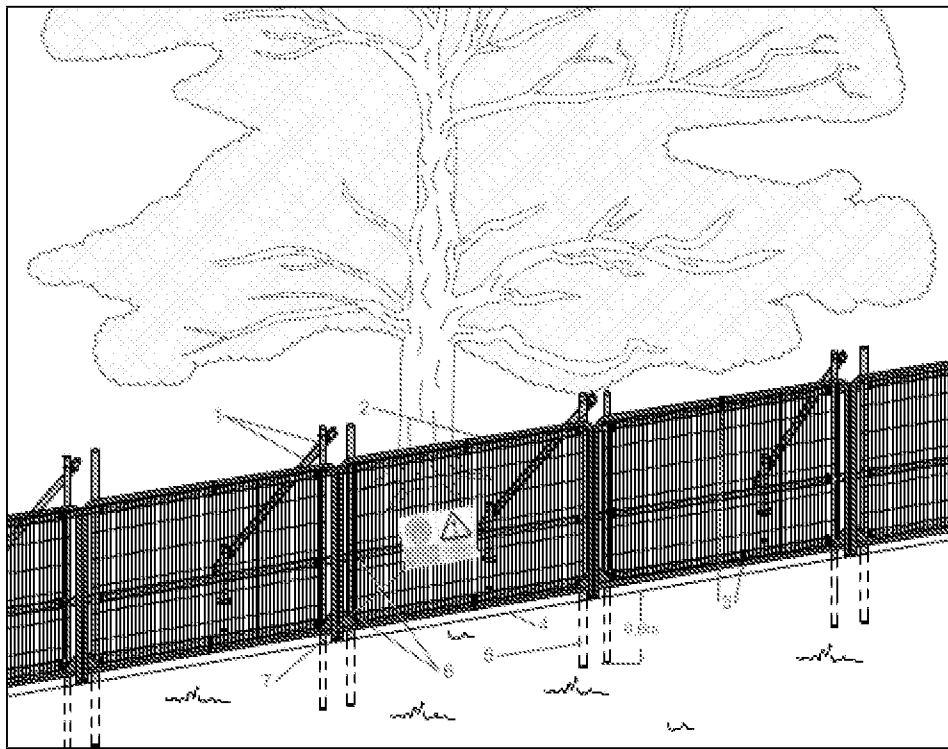
| Tree No | Species                                | Height | Stem Dia                        | Crown Radius | Age Class | Overall Condition | Structural Condition                                                                                                                                                                                                                                                                                                                                                        | RPA | RPA Radius | R55037 Est |
|---------|----------------------------------------|--------|---------------------------------|--------------|-----------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|------------|
| T6      | Ash<br><i>Fraxinus excelsior</i>       | 13     | est<br>550<br>300<br>300<br>460 | 8            | M         | F                 | Branch stubs evident<br>Broken branches evident<br>Epiconmic growth evident within the crown<br>Minor dead wood evident in the crown (<75mm)<br>Sparse / thinning crown<br>Situating on Bank of a ditch<br>Multi stemmed from ground level<br>Growing towards the north<br>Dense brambles and undergrowth<br>Die back of 40% in the crown when surveyed in September 2024   | 314 | 10.0       | C (i)      |
| T7      | English Oak<br><i>Quercus robur</i>    | 11     | est<br>400                      | 5            | EM        | P                 | Large bark wound on southern side at 0.5m<br>Delamination of bark from crown break to upper crown<br>Large sections of major deadwood<br>Very sparse crown<br>Limited future potential                                                                                                                                                                                      | 72  | 4.8        | C (i)      |
| T8      | Cider Gum<br><i>Eucalyptus gunni</i>   | 12     | est<br>350                      | 6            | M         | F                 | Situating offsite within rear garden<br>Unable to gain access<br>No major defects                                                                                                                                                                                                                                                                                           | 55  | 4.2        | C (i)      |
| T9      | Sycamore<br><i>Acer pseudoplatanus</i> | 13     | avg<br>11x 150                  | 6            | M         | F                 | Basal suckers present<br>Base obscured<br>Branch stubs evident<br>Broken branches evident<br>Characteristic for species<br>Crossing and rubbing branches<br>Dense ivy cover on main stem<br>Dense undergrowth at the base<br>Minor dead wood evident in the crown (<75mm)<br>Multi stemmed from base<br>Roadside has been heavily flailed back resulting in broken branches | 112 | 6.0        | C (i)      |

| Group No.       | Species                                                                                                                                               | Height | Stem Dia. | Crown Radius | Age Class | Overall Condition | Structural Condition                                                                                                                                                                                                                                                               | RPA | RPA Radius | RSSB37 Cat |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|--------------|-----------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|------------|
| GROUPS OF TREES |                                                                                                                                                       |        |           |              |           |                   |                                                                                                                                                                                                                                                                                    |     |            |            |
| G1              | Wych Elm<br><i>Ulmus glabra</i>                                                                                                                       | 10     | est 200   | 4            | EM / M    | F                 | Linear group of trees forming boundary between site and farm buildings<br>Situated offsite<br>Light ivy cover and brambles throughout<br>Dead trees present in tree stock<br>Recommended removal for dead trees                                                                    | 18  | 2.4        | C (i)      |
| G2              | Blackthorn<br><i>Prunus spinosa</i><br>Hawthorn<br><i>Crataegus monogyna</i><br>Wych Elm<br><i>Ulmus glabra</i><br>Dogwood<br><i>Cornus sanguinea</i> | 10     | est 200   | 4            | EM / M    | F                 | Linear group of trees forming boundary between site and farm buildings<br>Situated offsite<br>Light ivy cover and brambles throughout<br>Primarily single stemmed elms. Understorey of thorn and dogwood<br>Dead trees present in tree stock<br>Recommended removal for dead trees | 18  | 2.4        | C (i)      |
| G3              | Crack Willow<br><i>Salix fragilis</i>                                                                                                                 | 17     | est 750   | 7            | M         | F                 | Broken branches evident<br>Characteristic for species<br>Crossing and rubbing branches<br>Epicormic growth evident within the crown<br>Two trees<br>Unable to gain access to stems due to dense undergrowth                                                                        | 254 | 9.0        | C (ii)     |

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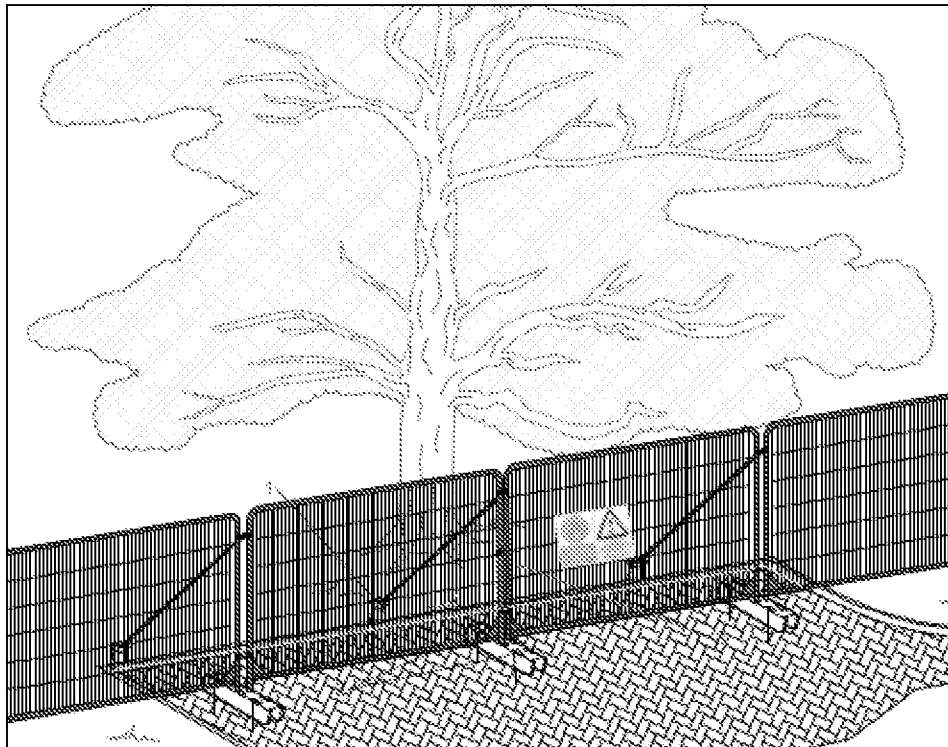
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| Hedge No | Species                                                                                                                         | Height | Stem Dia     | Crown Radius | Age Class | Overall Condition | Structural Condition                                                          | RPA | RPA Radius | B35433 Cat |
|----------|---------------------------------------------------------------------------------------------------------------------------------|--------|--------------|--------------|-----------|-------------------|-------------------------------------------------------------------------------|-----|------------|------------|
| H5       | Blackthorn<br>Prunus spinosa<br>Elder<br>Sambucus nigra<br>Hawthorn<br>Crataegus monogyna<br>Butterfly bush<br>Buddleia davidii | 4      | est<br>6x 60 | 0.5          | M         | P                 | Boundary hedgerow that is heavily covered in ivy and brambles<br>Unmaintained | 10  | 1.8        | C (ii)     |
| H6       | Blackthorn<br>Prunus spinosa<br>Elder<br>Sambucus nigra<br>Field Maple<br>Acer campestre<br>Hawthorn<br>Crataegus monogyna      | 4      | est<br>6x 70 | 0.5          | M         | F                 | Roadside is flailed<br>Dense brambles and ivy throughout hedgerow             | 13  | 2.1        | C (ii)     |



### Specification for High Intensity Protection Barrier

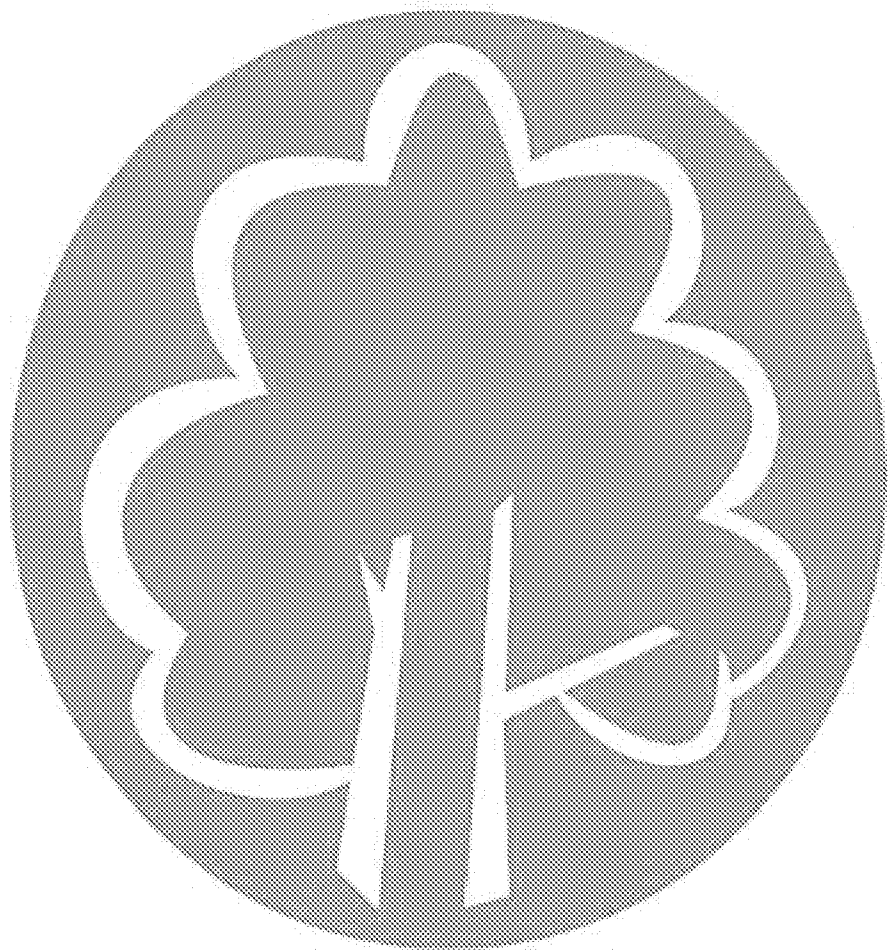
1. Standard scaffold poles
2. Heavy gauge 2m tall galvanized tube and welded mesh infill panels
3. Panels secured to scaffold frame with wire ties
4. Ground level
5. Uprights driven into the ground until secure (min depth of 0.6m)
6. Standard scaffold clamps
7. Construction Exclusion Zone signs



### Specification for Low Intensity Protection Barrier

1. Stabiliser strut with base plate secured with ground pins
2. Foot blocks secured with ground pins
3. Construction Exclusion Zone signs

## APPENDIX B PROTECTIVE FENCING SPECIFICATIONS



**PROTECTIVE FENCING. THIS  
FENCING MUST BE  
MAINTAINED IN ACCORDANCE  
WITH THE APPROVED PLANS  
AND DRAWINGS FOR THIS  
DEVELOPMENT.**



**TREE PROTECTION AREA  
KEEP OUT !**  
**(TOWN & COUNTRY PLANNING ACT 1990)**  
**TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY  
PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A  
TREE PRESERVATION ORDER.**  
**CONTRAVENTION OF A TREE PRESERVATION ORDER MAY  
LEAD TO CRIMINAL PROSECUTION**  
  
**ANY INCURSION INTO THE PROTECTED AREA MUST BE  
WITH THE WRITTEN PERMISSION OF THE LOCAL  
PLANNING AUTHORITY**

**The following points are to be considered at all times:**

1. Protective fencing has been installed at the extent of the calculated root protection area (RPA) - **DO NOT USE OR ACCESS** the ground within the fenced area. This is particularly the case for placement of site offices, stockpiles of soil or fuel and material storage, storing machinery or parking vehicles, debris or building materials or fires.
2. **AVOID** excavations, changes in ground levels or tracking machinery within the fenced area at **ALL TIMES**. These activities can seriously compromise the long term survival of trees due to the impact on a trees roots.
3. **REPORT** any instances where the fencing has been removed, repositioned, damaged or is not fit for purpose to the Site Manager. This shall help the Site Manager to ensure that the fencing is maintained throughout the construction process. It will also reduce the risk of any staff and contractors accidentally and inadvertently causing damage to trees as a result.

Retained trees are protected by planning law and reckless damage or non consented tree removal could result in the serving of a stop notice or enforcement by the LPA

