



## **ARBORICULTURAL CONSTRAINTS ASSESSMENT**

**18 Crowsport, Hamble**

*- prepared on behalf of Mr & Mrs Wilson -*

***The Granary, White Chimney Row, Westbourne PO10 8RS***

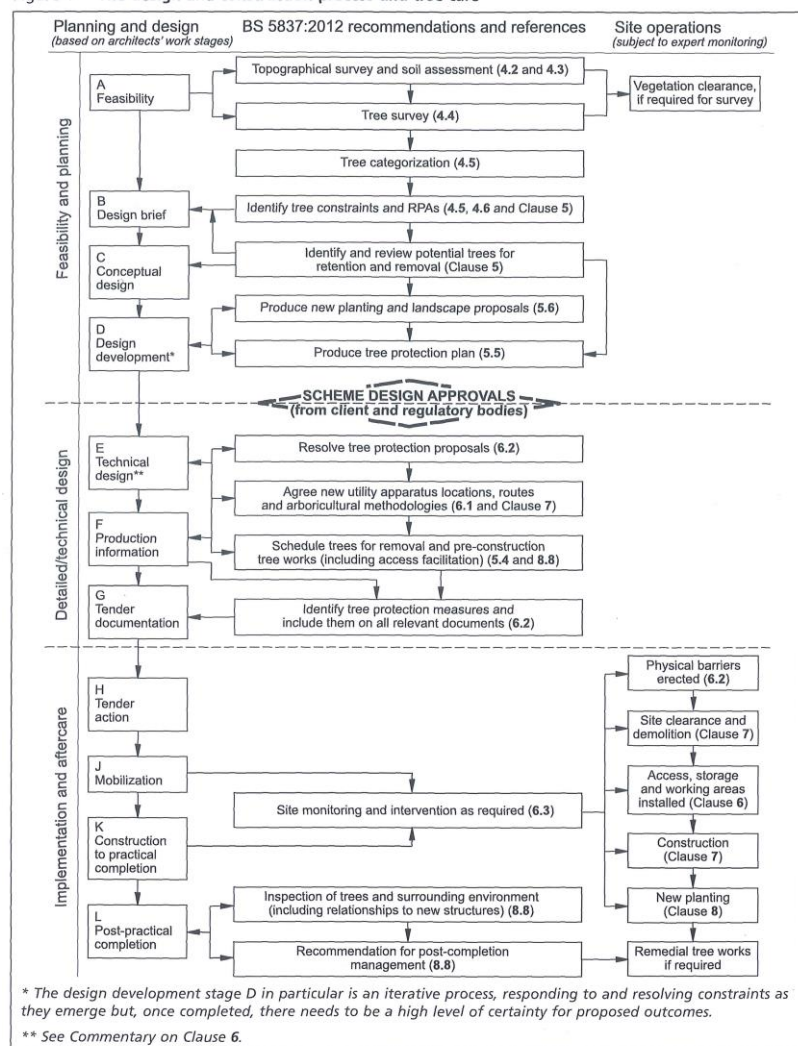
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# Tree Survey Schedule

+ T/S Notes & BS5837 Flow Diagram

Figure 1 The design and construction process and tree care



## TREE SURVEY NOTES

These Tree Survey Notes have been prepared in accordance with the recommendations of **British Standard 5837:2012** and they define the criteria for pre –development tree surveys.

- Each tree/group/hedge/shelterbelt/woodland has been allocated a unique number (**No.**), where specifically requested and appropriate fees are agreed small durable numbered metal tags can be applied to each tree/group surveyed.
- The tree species (**Species**) is provided in both English and Latin name formats.
- Height assessments (**Ht**) are estimated in metres. This will be adequate for the majority of cases, but where accurate heights become a critical issue it may be necessary to return to site, as a separately commissioned exercise, to collect accurate measurements with the aid of optical instruments.
- Trunk/stem diameters (**Diam**) are measured in millimetres at 1.5m above ground level – where the tree is inaccessible the diameter is estimated as indicated by suffix #
- Radial crown spread assessments (**Brch Sprd**) are estimated in metres from the centre of the trunk/group to each of the four primary points of the compass (**N**-north; **E**-east; **S**-south and **W**-west) in order to achieve a representation of the crown shape which will be shown on the accompanying tree survey plan. These provide a general guide as to the main bulk outline of a tree/groups crown but are not tape measured dimensions. These would only be undertaken as part of a separately commissioned exercise, where precise dimensions are critical to the project at hand.
- Both the canopy ground clearance (**GC**) and the height & compass direction of the lowest major branch (**LMB**) are estimated and shown in metres
- An assessment of a tree/groups 'life stage' (**LS**) is made in terms of its site specific maturity as part of the surrounding landscape, taking into account its overall shape and form in that setting, and is recorded thus :-  
**Y** - Young tree/group; **SM** - Semi-Mature tree/group; **EM** - Early-Mature tree/group;  
**M** – Mature tree/group; **OM** - Over – mature tree/group
- Data on the structural condition (**Condition Comments**) of the tree/group is provided to give its visual appearance and any significant health and safety issues.
- Details of any recommended tree works required at the time of survey is given under the heading – **Preliminary Management Recommendations**.
- An estimate of a tree/groups remaining contribution in years (**RC**) is made and is recorded thus :-  
**0-5; 5-10; 10-20; 20-30; 30-40** or **>40** years.
- The category grading (**Cat**) for each tree/group is assessed according to the criteria provided within **BS5837:2012**. The assessment is made of the tree/group in its current condition and within the environment encountered bearing in mind its suitability for retention as part of any future proposed

development; although the exact layout detail of any specific scheme will not be known at the time of surveying. The trees have been classified into one of four categories and colour coded as BS5837 recommends :- **U** (dark red); **A** (light green); **B** (mid-blue) and **C** (grey). Please note that suffixed numerical sub-categories are also applied for guidance only and do not carry any cumulative or increased value for the tree/group. This colour coding scheme will be applied to all drawings provided.

Table 1 – Cascade chart for tree quality assessment

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

# **TREE SURVEY SCHEDULE**

**Client : Mr & Mrs Wilson**

**Site Location : 18 Crowsport, Hamble**

**Surveyor : Bernie Harverson**

**Date Surveyed : 18<sup>th</sup> July 2022**

| Tree No.   | Species                                                                      | Ht<br>m | Diam<br>mm            | Brch<br>Sprd<br>m               | GC<br>m | LS | Comments                                                                                                                                                                                                                                                   | Preliminary Management<br>Recommendations                       | Rem<br>Contr<br>yrs | Cat |
|------------|------------------------------------------------------------------------------|---------|-----------------------|---------------------------------|---------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------|-----|
| Hedge<br>1 | Golden Leyland Cypress<br><i>Cupressocyparis leylandii</i><br>'Castlewellan' | 3       | Av<br>80              | N 0.6<br>E –<br>S 0.4<br>W-     | 0       | Y  | Small diameter deadwood throughout-tip dieback and has patches of dieback on inner face of hedge-most likely due to repeated heavy pruning and stress and/or frost damage.                                                                                 | No works required at this time                                  | 10-20               | C2  |
| 1          | Purple Plum<br><i>Prunus cerasifera</i> 'Nigra'                              | 5       | 320                   | N 3.5<br>E 3.5<br>S 3.5<br>W3.5 | 1.5     | EM | Roots exposed and mower damaged-fungal bracket attached to trunk at ground level just above the graft union -bifurcated at 2m-tight fork with included bark-small diameter deadwood - dieback throughout-previously topped out at 3m-open centre to crown. | Consider removal for safety reasons<br>– in view of basal decay | <10                 | U   |
| 2          | Leyland Cypress<br><i>Cupressocyparis leylandii</i><br>'Castlewellan'        | 6.5     | 380                   | N 3.5<br>E 3.5<br>S 3.5<br>W3.5 | 1       | SM | Small diameter deadwood throughout-patches of dieback-previously topped out at 4.5m-open centre to crown and a flat top as a result of the heavy lopping-poor quality tree overall.                                                                        | No works required at this time                                  | 10-20               | C1  |
| 3          | Silver Birch<br><i>Betula pendula</i>                                        | 8       | 240                   | N 4<br>E 4<br>S 4<br>W4         | 2       | SM | Ivy smothering throughout-growing out of a raised container bed some 0.5m above the main ground levels throughout the plot.                                                                                                                                | Remove all of the Ivy                                           | 20-30               | B1  |
| 4          | Bay Laurel<br><i>Laurus nobilis</i>                                          | 5       | 120<br>90<br>75<br>50 | N 2<br>E 2<br>S 1.5<br>W1       | 1       | Y  | Multi stemmed at ground level- growing out of a raised container bed some 0.5m above the main ground levels throughout the plot- previously topped out at 2.5m-suppressed by the Birch.                                                                    | No works required at this time                                  | 10-20               | C1  |
| 5          | Holly<br><i>Ilex aquifolium</i>                                              | 4       | 90<br>#               | N 0.5<br>E 0.5<br>S 0.5<br>W0.5 | 1.5     | Y  | Unable to access as tree is off site-growing in the adjacent garden behind a retaining wall and some 0.75m above the ground levels within the plot-low crown density and dieback noted-poor quality tree overall.                                          | Not under the clients control                                   | 10-20               | C1  |
| 6          | Holly<br><i>Ilex aquifolium</i>                                              | 4       | 75<br>#               | N 0.5<br>E 0.5<br>S 0.5<br>W0.5 | 0       | Y  | Unable to access as tree is off site-growing in the adjacent garden behind a retaining wall and some 0.75m above the ground levels within the plot-low crown density and dieback noted-poor quality tree overall.                                          | Not under the clients control                                   | 10-20               | C1  |
| 7          | Holly<br><i>Ilex aquifolium</i>                                              | 5       | 120<br>#              | N 1<br>E 1<br>S 1<br>W1         | 1       | Y  | Unable to access as tree is off site-growing in the adjacent garden behind a retaining wall and some 0.75m above the ground levels within the plot-low crown density and dieback noted-poor quality tree overall.                                          | Not under the clients control                                   | 10-20               | C1  |

|            |                                                                                                      |              |                       |                           |     |                |                                                                                                                                                                                                                                                                     |                               |       |    |
|------------|------------------------------------------------------------------------------------------------------|--------------|-----------------------|---------------------------|-----|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------|----|
| Group<br>1 | Bay Laurel<br><i>Laurus nobilis</i><br>x 2 of                                                        | 4            | 50<br>x 10<br>#       | N 2.5<br>E 3<br>S 2<br>W4 | 0.5 | SM             | Unable to access as trees are off site-growing in the adjacent garden behind a retaining wall and some 0.75m above the ground levels within the plot-multi stemmed at ground level-ivy smothering throughout-previously topped out at 3m-poor quality tree overall. | Not under the clients control | 10-20 | C2 |
| Group<br>2 | Golden Leyland Cypress<br><i>(Cupressocyparis)</i><br>x 3 of<br>Dogwood<br><i>(Cornus)</i><br>x 1 of | 4<br>to<br>8 | 100<br>to<br>250<br># | N 2<br>E 2<br>S 1.5<br>W1 | 0.5 | SM<br>to<br>EM | Unable to access as trees are off site-growing in the adjacent garden behind a retaining wall and some 0.75m above the ground levels within the plot-multi stemmed at ground level- linear boundary screen planting- crown shapes dictated by group pressures.      | Not under the clients control | 10-20 | C2 |



# Root Protection Area Schedule

+ BS5837 RPA Calculation Methodology

## 4.6 Root Protection Area (RPA)

**4.6.1** For single stem trees, the RPA should be calculated as an area equivalent to a circle with a radius 12 times the stem diameter measured at a height of 1.5m from ground level. For trees with more than one stem, one of two calculation methods should be used as illustrated and explained below.

a) For trees with 2 to 5 stems, the combined stem diameter should be calculated as follows:

$$\sqrt{(\text{stem diameter } 1)^2 + (\text{stem diameter } 2)^2 \dots \text{up to } + (\text{stem diameter } 5)^2}$$

**In words** - measure the diameter of each of the stems – square each one and add it to the next - finally assess the square root of the combined total to derive one measurement which you look up in Table D.1 to find the radial RPA and area measurement equivalent to the area of a circle with that radius - in case you have to apply a polygon protection zone [see at 4.6.2 below].

The calculated RPA for each tree is to be capped at 707 m<sup>2</sup>

b) For trees with more than five stems the combined stem diameter should be calculated as follows:

$$\sqrt{(\text{mean stem diameter})^2 \times \text{the total number of stems}}$$

**In words** – measure all of the stem diameters – add them all together and divide by the total number of stems (= mean stem diameter) – then square this figure – then multiply that figure by the total number of stems and then finally assess the square root of that figure to derive one measurement which you look up in Table D.1 to find the radial RPA and area measurement equivalent to the area of a circle with that radius - in case you have to apply a polygon protection zone [see at 4.6.2 below].

**4.6.2** The RPA for each tree should initially be plotted as a circle centred on the accurate position of the trunk of the tree. Where pre-existing site conditions or other factors indicate that rooting has occurred asymmetrically, a polygon of equivalent area to the circle should be plotted instead of the circle. Modifications to the shape of the RPA should reflect a soundly based arboricultural assessment of likely root distribution.

**4.6.3** Any deviation in the RPA from the original circular plot should take account of the following factors whilst still providing adequate protection for the root system:

- the morphology and disposition of the roots, when influenced by past or existing site conditions (e.g. the presence of roads, structures and underground apparatus);
- topography and drainage;
- the soil type and structure;
- the likely tolerance of the tree to root disturbance or damage, based on factors such as species, age, condition and past management.

### Root Protection Area – Table D1

The RPA's given in Table D.1 should be used for single stem trees and the equivalent resultant combined stem diameter for multi-stemmed trees

| Stem<br>Diam.<br>mm | Circle<br>Rad.<br>m | Area<br>m <sup>2</sup> | Stem<br>Diam.<br>mm | Circle<br>Rad.<br>m | Area<br>m <sup>2</sup> | Stem<br>Diam.<br>mm | Circle<br>Rad.<br>m | Area<br>m <sup>2</sup> | Stem<br>Diam.<br>mm | Circle<br>Rad.<br>m | Area<br>m <sup>2</sup> | Stem<br>Diam.<br>mm | Circle<br>Rad.<br>m | Area<br>m <sup>2</sup> |
|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|
| 75                  | 0.9                 | 3                      | 310                 | 3.7                 | 43                     | 545                 | 6.5                 | 134                    | 780                 | 9.4                 | 275                    | 1015                | 12.2                | 466                    |
| 80                  | 1.0                 | 3                      | 315                 | 3.8                 | 45                     | 550                 | 6.6                 | 137                    | 785                 | 9.4                 | 279                    | 1020                | 12.2                | 471                    |
| 85                  | 1.0                 | 3                      | 320                 | 3.8                 | 46                     | 555                 | 6.7                 | 139                    | 790                 | 9.5                 | 282                    | 1025                | 12.3                | 475                    |
| 90                  | 1.1                 | 4                      | 325                 | 3.9                 | 48                     | 560                 | 6.7                 | 142                    | 795                 | 9.5                 | 286                    | 1030                | 12.4                | 480                    |
| 95                  | 1.1                 | 4                      | 330                 | 4.0                 | 49                     | 565                 | 6.8                 | 144                    | 800                 | 9.6                 | 290                    | 1035                | 12.4                | 485                    |
| 100                 | 1.2                 | 5                      | 335                 | 4.0                 | 51                     | 570                 | 6.8                 | 147                    | 805                 | 9.7                 | 293                    | 1040                | 12.5                | 490                    |
| 105                 | 1.3                 | 5                      | 340                 | 4.1                 | 52                     | 575                 | 6.9                 | 150                    | 810                 | 9.7                 | 297                    | 1045                | 12.5                | 494                    |
| 110                 | 1.3                 | 5                      | 345                 | 4.1                 | 54                     | 580                 | 7.0                 | 152                    | 815                 | 9.8                 | 301                    | 1050                | 12.6                | 499                    |
| 115                 | 1.4                 | 6                      | 350                 | 4.2                 | 55                     | 585                 | 7.0                 | 155                    | 820                 | 9.8                 | 304                    | 1055                | 12.7                | 504                    |
| 120                 | 1.4                 | 7                      | 355                 | 4.3                 | 57                     | 590                 | 7.1                 | 157                    | 825                 | 9.9                 | 308                    | 1060                | 12.7                | 508                    |
| 125                 | 1.5                 | 7                      | 360                 | 4.3                 | 59                     | 595                 | 7.1                 | 160                    | 830                 | 10.0                | 312                    | 1065                | 12.8                | 513                    |
| 130                 | 1.6                 | 8                      | 365                 | 4.4                 | 60                     | 600                 | 7.2                 | 163                    | 835                 | 10.0                | 315                    | 1070                | 12.8                | 518                    |
| 135                 | 1.6                 | 8                      | 370                 | 4.4                 | 62                     | 605                 | 7.3                 | 166                    | 840                 | 10.1                | 319                    | 1075                | 12.9                | 523                    |
| 140                 | 1.7                 | 9                      | 375                 | 4.5                 | 64                     | 610                 | 7.3                 | 168                    | 845                 | 10.1                | 323                    | 1080                | 13.0                | 528                    |
| 145                 | 1.7                 | 10                     | 380                 | 4.6                 | 65                     | 615                 | 7.4                 | 171                    | 850                 | 10.2                | 327                    | 1085                | 13.0                | 533                    |
| 150                 | 1.8                 | 10                     | 385                 | 4.6                 | 67                     | 620                 | 7.4                 | 174                    | 855                 | 10.3                | 331                    | 1090                | 13.1                | 538                    |
| 155                 | 1.9                 | 11                     | 390                 | 4.7                 | 69                     | 625                 | 7.5                 | 177                    | 860                 | 10.3                | 335                    | 1095                | 13.1                | 542                    |
| 160                 | 1.9                 | 12                     | 395                 | 4.7                 | 71                     | 630                 | 7.6                 | 180                    | 865                 | 10.4                | 339                    | 1100                | 13.2                | 547                    |
| 165                 | 2.0                 | 12                     | 400                 | 4.8                 | 72                     | 635                 | 7.6                 | 182                    | 870                 | 10.4                | 342                    | 1105                | 13.3                | 552                    |
| 170                 | 2.0                 | 13                     | 405                 | 4.9                 | 74                     | 640                 | 7.7                 | 185                    | 875                 | 10.5                | 346                    | 1110                | 13.3                | 557                    |
| 175                 | 2.1                 | 14                     | 410                 | 4.9                 | 76                     | 645                 | 7.7                 | 188                    | 880                 | 10.6                | 350                    | 1115                | 13.4                | 562                    |
| 180                 | 2.2                 | 15                     | 415                 | 5.0                 | 78                     | 650                 | 7.8                 | 191                    | 885                 | 10.6                | 354                    | 1120                | 13.4                | 568                    |
| 185                 | 2.2                 | 16                     | 420                 | 5.0                 | 80                     | 655                 | 7.9                 | 194                    | 890                 | 10.7                | 358                    | 1125                | 13.5                | 573                    |
| 190                 | 2.3                 | 16                     | 425                 | 5.1                 | 82                     | 660                 | 7.9                 | 197                    | 895                 | 10.7                | 362                    | 1130                | 13.6                | 578                    |
| 195                 | 2.3                 | 17                     | 430                 | 5.2                 | 84                     | 665                 | 8.0                 | 200                    | 900                 | 10.8                | 366                    | 1135                | 13.6                | 583                    |
| 200                 | 2.4                 | 18                     | 435                 | 5.2                 | 86                     | 670                 | 8.0                 | 203                    | 905                 | 10.9                | 371                    | 1140                | 13.7                | 588                    |
| 205                 | 2.5                 | 19                     | 440                 | 5.3                 | 88                     | 675                 | 8.1                 | 206                    | 910                 | 10.9                | 375                    | 1145                | 13.7                | 593                    |
| 210                 | 2.5                 | 20                     | 445                 | 5.3                 | 90                     | 680                 | 8.2                 | 209                    | 915                 | 11.0                | 379                    | 1150                | 13.8                | 598                    |
| 215                 | 2.6                 | 21                     | 450                 | 5.4                 | 92                     | 685                 | 8.2                 | 212                    | 920                 | 11.0                | 383                    | 1155                | 13.9                | 604                    |
| 220                 | 2.6                 | 22                     | 455                 | 5.5                 | 94                     | 690                 | 8.3                 | 215                    | 925                 | 11.1                | 387                    | 1160                | 13.9                | 609                    |
| 225                 | 2.7                 | 23                     | 460                 | 5.5                 | 96                     | 695                 | 8.3                 | 219                    | 930                 | 11.2                | 391                    | 1165                | 14.0                | 614                    |
| 230                 | 2.8                 | 24                     | 465                 | 5.6                 | 98                     | 700                 | 8.4                 | 222                    | 935                 | 11.2                | 396                    | 1170                | 14.0                | 619                    |
| 235                 | 2.8                 | 25                     | 470                 | 5.6                 | 100                    | 705                 | 8.5                 | 225                    | 940                 | 11.3                | 400                    | 1175                | 14.1                | 625                    |
| 240                 | 2.9                 | 26                     | 475                 | 5.7                 | 102                    | 710                 | 8.5                 | 228                    | 945                 | 11.3                | 404                    | 1180                | 14.2                | 630                    |
| 245                 | 2.9                 | 27                     | 480                 | 5.8                 | 104                    | 715                 | 8.6                 | 231                    | 950                 | 11.4                | 408                    | 1185                | 14.2                | 635                    |
| 250                 | 3.0                 | 28                     | 485                 | 5.8                 | 106                    | 720                 | 8.6                 | 235                    | 955                 | 11.5                | 413                    | 1190                | 14.3                | 641                    |
| 255                 | 3.1                 | 29                     | 490                 | 5.9                 | 109                    | 725                 | 8.7                 | 238                    | 960                 | 11.5                | 417                    | 1195                | 14.3                | 646                    |
| 260                 | 3.1                 | 31                     | 495                 | 5.9                 | 111                    | 730                 | 8.8                 | 241                    | 965                 | 11.6                | 421                    | 1200                | 14.4                | 652                    |
| 265                 | 3.2                 | 32                     | 500                 | 6.0                 | 113                    | 735                 | 8.8                 | 244                    | 970                 | 11.6                | 426                    | 1205                | 14.5                | 657                    |
| 270                 | 3.2                 | 33                     | 505                 | 6.1                 | 115                    | 740                 | 8.9                 | 248                    | 975                 | 11.7                | 430                    | 1210                | 14.5                | 662                    |
| 275                 | 3.3                 | 34                     | 510                 | 6.1                 | 118                    | 745                 | 9.0                 | 251                    | 980                 | 11.8                | 435                    | 1215                | 14.6                | 668                    |
| 280                 | 3.4                 | 35                     | 515                 | 6.2                 | 120                    | 750                 | 9.0                 | 255                    | 985                 | 11.8                | 439                    | 1220                | 14.6                | 673                    |
| 285                 | 3.4                 | 37                     | 520                 | 6.2                 | 122                    | 755                 | 9.1                 | 258                    | 990                 | 11.9                | 443                    | 1225                | 14.7                | 679                    |
| 290                 | 3.5                 | 38                     | 525                 | 6.3                 | 125                    | 760                 | 9.1                 | 261                    | 995                 | 11.9                | 448                    | 1230                | 14.8                | 685                    |
| 295                 | 3.5                 | 39                     | 530                 | 6.4                 | 127                    | 765                 | 9.2                 | 265                    | 1000                | 12.0                | 452                    | 1235                | 14.8                | 690                    |
| 300                 | 3.6                 | 41                     | 535                 | 6.4                 | 130                    | 770                 | 9.2                 | 268                    | 1005                | 12.1                | 457                    | 1240                | 14.9                | 696                    |
|                     |                     |                        |                     |                     |                        |                     |                     |                        |                     |                     |                        |                     |                     |                        |
| 305                 | 3.7                 | 42                     | 540                 | 6.5                 | 132                    | 775                 | 9.3                 | 272                    | 1010                | 12.1                | 462                    | 1245                | 14.9                | 701                    |
|                     |                     |                        |                     |                     |                        |                     |                     |                        |                     |                     |                        | 1250                | 15.0                | 707                    |

## ROOT PROTECTION AREA SCHEDULE

Client : **Mr & Mrs Wilson**

Site Location : **18 Crowsport, Hamble**

| Tree No.   | Tree Species                                                                                       | Cat | Diam<br>mm            | BS5837:2012 Table1<br>Radial Protection<br>Zone<br>m | BS5837:2012<br>Table D1<br>Polygon Area<br>m <sup>2</sup> |
|------------|----------------------------------------------------------------------------------------------------|-----|-----------------------|------------------------------------------------------|-----------------------------------------------------------|
| Hedge<br>1 | Golden Leyland Cypress<br><i>Cupressocyparis leylandii</i><br>'Castlewellan'                       | C2  | Av<br>80              | 1.0                                                  | 3                                                         |
| 1          | Purple Plum<br><i>Prunus cerasifera</i> 'Nigra'                                                    | U   | 320                   | 3.8                                                  | 46                                                        |
| 2          | Leyland Cypress<br><i>Cupressocyparis leylandii</i><br>'Castlewellan'                              | C1  | 380                   | 4.6                                                  | 65                                                        |
| 3          | Silver Birch<br><i>Betula pendula</i>                                                              | B1  | 240                   | 2.9                                                  | 26                                                        |
| 4          | Bay Laurel<br><i>Laurus nobilis</i>                                                                | C1  | 120<br>90<br>75 & 50  | 2.1                                                  | 14                                                        |
| 5          | Holly<br><i>Ilex aquifolium</i>                                                                    | C1  | 90<br>#               | 1.1                                                  | 4                                                         |
| 6          | Holly<br><i>Ilex aquifolium</i>                                                                    | C1  | 75<br>#               | 0.9                                                  | 3                                                         |
| 7          | Holly<br><i>Ilex aquifolium</i>                                                                    | C1  | 120<br>#              | 1.4                                                  | 7                                                         |
| Group<br>1 | Bay Laurel<br><i>Laurus nobilis</i><br>x 2 of                                                      | C2  | 50<br>x 10<br>#       | 1.9                                                  | 11                                                        |
| Group<br>2 | Golden Leyland Cypress<br>( <i>Cupressocyparis</i> )<br>x 3 of<br>Dogwood ( <i>Cornus</i> ) x 1 of | C2  | 100<br>to<br>250<br># | 1.2<br><br>3.0                                       | 5<br><br>28                                               |



# Tree Constraints Plan



# Qualifications & Experience



## **QUALIFICATIONS AND EXPERIENCE**

- My name is **Bernie Harverson** and I am a self employed independent arboricultural consultant in private practice.
- I take instructions primarily in the South of England but also on occasions work nationwide and abroad and have an office at : –  
***The Granary, White Chimney Row, Westbourne PO10 8RS***
- I hold the following arboricultural qualification – **National Diploma in Arboriculture** (Royal Forestry Society – 1976)
- I have **fifty-one (51)** years of practical and managerial experience in the arboricultural industry including periods in both the public and private sectors.
- My Local Government sector experience comprises one year as a tree surgeon with Brighton Parks and nine years spent in Arboricultural Officer posts with both Westminster City Council and Portsmouth City Council
- My past practical experience in the private sector includes two years at Tilhill Forest Nursery and over ten years for various companies as a Climbing Arborist/Tree Surgeon.
- Managerial work in the private sector includes two years as manager of Beechings Tree Surgeons and twelve years with the CBA Tree Consultancy Practice as Managing Director and Senior Arboricultural Consultant.
- As an independent self employed Arboricultural Consultant [since 2005] I now provide a comprehensive range of services including :-  
tree surveys, appraisals, assessments and inspections with particular reference to planning and development and tree safety audits with a service offered as a climber to undertake full climbing inspections to better understand the condition of a given tree before prescribing a management strategy.
- I also undertake litigation work appearing as an Expert Witness in Court Actions and at Planning Appeals, Hearings and Local Inquiries.

***The Granary, White Chimney Row, Westbourne PO10 8RS***

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