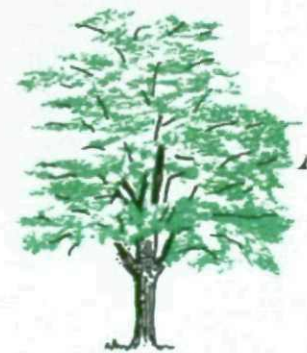




**MICHAEL COOPER M.ARB. Dip. P.R.A.**  
**ARBORICULTURAL CONSULTANT**



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Tree Surveys  
Mortgage Tree Surveys  
Planning Applications  
Planning Appeals  
Public Enquiries  
Expert Legal Witness

Our Ref MC

11<sup>th</sup> February 2009

Dear Brian,

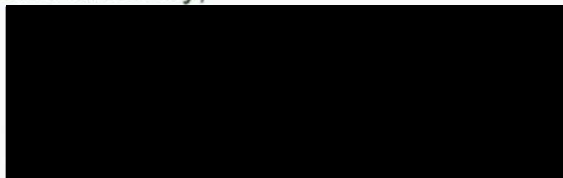
**ARBORICULTURAL SURVEY, HAWTHORNE HOUSE, SHAFTON,  
BARNESLEY.**

I refer to your request for an Arboricultural survey at the above site. The following points are now outlined for your attention.

- 1 The trees on this site are all of mature status with a limited species matrix. They are visually prominent in the street scene and are an effective screen for the surrounding aged person's complex and Hawthorn House itself. If the Local Planning Department are inclined to grant planning permission for the car park, they will most likely require replacement tree planting to compensate for the proposed tree loss.
- 2 I note that the existing hedgerow adjacent to Hawthorne Street is designated for possible removal to facilitate the access/egress point to service the car park. If planning permission is granted in the near future you need to be aware that its removal cannot be progressed within the bird nesting season as outlined in the **Wildlife and Countryside Act**. This may place a time restriction on the development as the timetable for Planning or Development Control Boards in Local Government may take you into the nesting season.

- 3 On the aspect of tree retention all development on site should comply with the requirements of **British Standard Institute Specification 5837 Trees in relation to construction; 2005.**
- 4 Any new tree/shrub planting should comply with **British Standards 4043:1989, Transplanting root-balled trees and British Standard Institute Specification 3936: 1992, Nursery Stock Part 1. Specification for Trees and Shrubs.**
- 5 All tree surgery work should be carried in accordance with **British Standard Institute Specification 3998, Tree Surgery work.**
- 6 The site should be checked for the existence of any **Tree Preservation orders, Conservation areas, Sites of Scientific Interest, Areas of Outstanding Natural Beauty, any deeds of covenant or/and other statutory instruments that may apply.**

Yours sincerely,



M Cooper.

Brian Marsh MCIAT  
Andromeda Architecture Ltd  
686 Stannington Road  
Sheffield  
S6 6AJ

## **KEY TO M. COOPER TREE SURVEY HEADINGS**

TR NO = TREE NUMBER

SPECIES= TREE SPECIES

HGT= OVERALL HEIGHT

STEM DIAM=TRUNK DIAMETER WHEN MEASURED AT 1.5 METRES  
FROM GROUND LEVEL

BR SPREAD = BRANCH SPREAD IN METRES ON ALL DIRECTIONS

HGT OF CRN CLRN= HEIGHT OF CROWN CLEARANCE TO THE  
BOTTOM BRANCH

AGE = Y= YOUNG TREE, SM = SEMI MATURE, M =MATURE, OM = OVER  
MATURE, VT = VETERAN

PHYS COND=PHYSIOLOGICAL CONDITION IE GOOD, FAIR, POOR,  
DEAD

STRUCTURAL CONDITION=OVERALL CONDITION, WEAKNESSES,  
DEFECTS ETC

PRELIMINARY MANAGEMENT RECOMMENDATIONS=SUGGESTED  
TREE SURGERY WORK

CAT = CATEGORY IN ACCORDANCE WITH BRITISH STANDARD  
INSTITUTE SPECIFICATION 5837 2005 FOR TREES IN RELATION TO  
CONSTRUCTION; RECOMMENDATIONS.

SS=SINGLE STEM TREE

MS= MULTI-STEM TREE

S=SHRUB OR SHRUBBERY

W=WOODLAND AREA OR WOODED PERIMIETER/SCREEN

H=HEDGELINE

G=GROUP

NB. WHEN ANY REFERENCE IS MADE IN THE REPORT ON WOUNDS  
OR A HEIGHT MEASUREMENT, THIS IS TAKEN AS BEING FROM  
GROUND LEVEL

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Carried out on behalf of client: B Kalar.  
Agent: Brian Marsh, Andromeda Architecture.

| TR NO | SPECIES                         | HGT m | STEM DIAM mm | BR SPREAD m                          | HGT OF CRN CLRN m | A G E | PHYS COND | STRUCTURAL CONDITION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PRELIMINARY MANAGEMENT RECOMMENDATIONS                                                                                                                                                 | EST. REMAIN CONT years | C A T |
|-------|---------------------------------|-------|--------------|--------------------------------------|-------------------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------|
| T1    | Acer platanooides, Norway Maple | 9m    | 380mm        | N 4.0m<br>E 4.7m<br>S 4.3m<br>W 4.6m | 2.5m              | M     | Fair      | <p>Main trunk divides at 5.5m to produce a multi-stemmed crown</p> <p>The stem has an area that has been debarked in the past from ground level up to 2.5m to the south. This is well callused showing the vigour of the tree. There is also a large longitudinal wound again radiating from ground level to 1.5m to the west. The wound is well callused and will be completely occluded within the next 5-10 years.</p> <p>There is a dead branch hung up in the crown. Some of the branches are in contact with the adjacent street lighting column no 4.</p> <p>Some minor dead wood and old branch stubs resulting from poor pruning. Lower branches to the south west have been removed to facilitate a safe height clearance over the adjacent footpath.</p> | <p>Remove hung up branch.</p> <p>Crown lift to clear branches around the street lamp</p> <p>Prune branch stubs and dead wood back to the branch collar in accordance with BS 3998.</p> | 20                     | B2    |

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| TR NO | SPECIES                                           | HGT m | STEM DIAM mm | BR SPREAD m                          | HGT OF CRN CLRN m | A G E | PHYS COND | STRUCTURAL CONDITION.                                                                                                                                                                                                                                                      | PRELIMINARY MANAGEMENT RECOMMENDATIONS                                                                                                                     | EST. REMAIN CONT years | C A T |
|-------|---------------------------------------------------|-------|--------------|--------------------------------------|-------------------|-------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------|
| T2    | Crataegus sp<br>Possibly prunifolia or X Lavellei | 4m    | 150mm        | N 2.5m<br>E 3.2m<br>S 3.2m<br>W 2.6m | 1m                | M     | Poor      | This tree is dead and should be removed.                                                                                                                                                                                                                                   | Remove and replant                                                                                                                                         | 0                      | R     |
| T3    | Fagus sylvatica,<br>Common Beech                  | 11m   | 260mm        | N 4.7m<br>E 4.4m<br>S 3.6m<br>W 4.2m | 2m                | M     | Fair      | Main trunk divides at 6m to produce 4 stems of which some are crossing and rubbing.<br><br>A low lateral limb is produced to the north east at 1.5m<br><br>Several old branch stubs resulting from previous poor pruning                                                   | Select strongest stem to be retained and alleviate the branch rubbing problem.<br>Prune branch stubs back to the branch collar in accordance with BS 3998. | 40                     | B2    |
| T4    | Fagus sylvatica,<br>Common Beech                  | 11m   | 310mm        | N 3.2m<br>E 2.4m<br>S 3.7m<br>W 4.4m | 2m                | M     | Fair      | Main trunk divides to two at 1.5m. These then sub-divide again to produce 4 stems that parallel each other through the height of the crown.<br><br>Old branch stubs resulting from poor pruning at the point of trunk division.<br><br>Some crossing and rubbing branches. | Prune branch stubs back to the branch collar in accordance with BS 3998.<br><br>Selective thin to remove the branch rubbing problem                        | 40                     | B2    |

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| TR NO | SPECIES                        | HGT m | STEM DIAM mm | BR SPREAD m                          | HGT OF CRN CLRN m | A G E | PHYS COND | STRUCTURAL CONDITION.                                                                                                                                                                                                                                                                                                                                               | PRELIMINARY MANAGEMENT RECOMMENDATIONS                                                                                               | EST. REMAIN CONT years | C A T |
|-------|--------------------------------|-------|--------------|--------------------------------------|-------------------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------|
| T5    | Sorbus aria, Whitebeam         | 9m    | 270mm        | N 3.6m<br>E 3.6m<br>S 4.4m<br>W 4.1m | 2.2m              | M     | Fair      | <p>Main trunk divides to two at 2.5m.</p> <p>Numerous old branch stubs at the point of trunk division resulting from poor pruning.</p> <p>One small branch is embedded into the stem to the north at the point of stem division. A previous branch that has been embedded into the stem to the south has already been cut back.</p> <p>Congested but nice crown</p> | <p>Prune branch stubs back to the branch collar in accordance with BS 3998.</p> <p>Remove embedded branch from stem to the north</p> | 20                     | B2    |
| T6    | Acer platanoides, Norway Maple | 10m   | 350mm        | N 3.7m<br>E 5.2m<br>S 4.8m<br>W 3.0m | 2.2m              | M     | Good      | <p>Main stem divides to two at 2.2m. One stem retains the main lead whilst the second stem of the same size has formed as a major waterspout limb to the east at 2.2m.</p> <p>One limb to the south has been shortened at 2.3.</p> <p>Some minor dead wood/twigs</p>                                                                                                | <p>Prune shortened limb and dead twigs back to the branch collar in accordance with BS 3998.</p>                                     | 20                     | B2    |

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| TR NO | SPECIES                             | HGT m | STEM DIAM mm | BR SPREAD m                          | HGT OF CRN CLRN m | A G E | PHYS COND | STRUCTURAL CONDITION.                                                                                                                                                                                                                                                                                                                                       | PRELIMINARY MANAGEMENT RECOMMENDATIONS                                                                                                                                                              | EST. REMAIN CONT years | C A T |
|-------|-------------------------------------|-------|--------------|--------------------------------------|-------------------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------|
| T7    | Tilia sp,<br>Lime Tilia sp,<br>Lime | 10m   | 280mm        | N 5.1m<br>E 2.6m<br>S 5.3m<br>W 3.5m | 2.5m              | M     | Good      | <p>Main stem divides to two at 3m. The stem to the north east has a small branch crossing and rubbing at 4m</p> <p>Some lower branches have been shortened-this is poor pruning.</p> <p>Old pruning stubs to the south west and north at 2m</p> <p>Some minor sucker shoots on the main trunk.</p> <p>Minor root girdling at the base of the main trunk</p> | <p>Selective thin to remove the branch rubbing problem</p> <p>Prune shortened branches and branch stubs back to the branch collar in accordance with BS 3998.</p> <p>Remove minor sucker shoots</p> | 40                     | B2    |
| T8    | Tilia sp,<br>Lime                   | 9m    | 300mm        | N 4.3m<br>E 3.4m<br>S 5.0m<br>W 3.9m | 2.5m              | M     | Good      | <p>One main trunk throughout the overall crown.</p> <p>Sucker shoots at ground level. Old branch stubs on first 3m of main trunk.</p> <p>Lower branches have been badly shortened</p> <p>Nice crown</p>                                                                                                                                                     | <p>Remove minor sucker shoots</p> <p>Prune shortened branches and branch stubs back to the branch collar in accordance with BS 3998.</p>                                                            | 40                     | B2    |

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| TR NO | SPECIES                        | HGT m | STEM DIAM mm | BR SPREAD m                          | HGT OF CRN CLRN m | A G E | PHYS COND | STRUCTURAL CONDITION.                                                                                                                                                                                                                                       | PRELIMINARY MANAGEMENT RECOMMENDATIONS                                                                                              | EST. REMAIN CONT years | C A T |
|-------|--------------------------------|-------|--------------|--------------------------------------|-------------------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------|
| T9    | Fraxinus excelsior, Common Ash | 11m   | 230mm        | N 3.7m<br>E 4.2m<br>S 5.0m<br>W 4.2m | 4m                | M     | Fair      | <p>Main trunk divides to two at 4.5m.</p> <p>Long lateral branch produced to the north west at 4m</p> <p>Numerous old branch stubs resulting from poor pruning.</p> <p>Lower branches have been badly shortened</p>                                         | Prune shortened branches and branch stubs back to the branch collar in accordance with BS 3998                                      | 40                     | B2    |
| T10   | Fraxinus excelsior, Common Ash | 11m   | 270mm        | N 2.4m<br>E 4.4m<br>S 5.4m<br>W 4.4m | 6m                | M     | Fair      | <p>Main trunk divides to two at 3.5m.</p> <p>Low branch overhanging the roof which may be hitting it during periods of high winds, especially when the weight of its leaves pulls it down.</p> <p>Numerous old branch stubs resulting from poor pruning</p> | <p>Crown lift over the roof of 'Hawthorn House'.</p> <p>Prune branch stubs back to the branch collar in accordance with BS 3998</p> | 40                     | B2    |

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| TR NO | SPECIES                            | HGT m | STEM DIAM mm | BR SPREAD m                          | HGT OF CRN CLRN m | A G E | PHYS COND | STRUCTURAL CONDITION.                                                                                                                                                                                                   | PRELIMINARY MANAGEMENT RECOMMENDATIONS                                                 | EST. REMAIN CONT years | C A T |
|-------|------------------------------------|-------|--------------|--------------------------------------|-------------------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------|-------|
| T11   | Fraxinus excelsior,<br>Common Ash  | 12m   | 290mm        | N 4.7m<br>E 4.2m<br>S 4.4m<br>W 5.0m | 6m                | M     | Fair      | Main trunk divides to three at 6m.<br><br>Numerous old branch stubs and wounds resulting from poor pruning.<br><br>Minor dead wood/twigs.                                                                               | Prune branch stubs and dead twigs back to the branch collar in accordance with BS 3998 | 40                     | B2    |
| T12   | Sorbus aria,<br>Whitebeam          | 6m    | 110mm        | N 2.0m<br>E 2.1m<br>S 2.3m<br>W 1.8m | 1.8m              | M     | Fair      | One main trunk throughout the overall crown<br><br>Lower branches have been badly shortened<br><br>This tree is being suppressed by T11+13+14                                                                           | Prune shortened branches back to the branch collar in accordance with BS 3998          | 40                     | B2    |
| T13   | Acer platanooides,<br>Norway Maple | 12m   | 320mm        | N 3.0m<br>E 4.7m<br>S 5.0m<br>W 2.2m | 2m                | M     | Fair      | Main trunk divides to two at 5m<br><br>One sided crown-very little to the west due to it competing with T14<br><br>Minor dead branches.<br><br>Some exposed buttress roots but this is of no detriment to its stability | Prune minor dead branches back to the branch collar in accordance with BS 3998         | 20                     | B2    |

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Agent: Brian Marsh, Andromeda Architecture.

| TR NO | SPECIES                        | HGT m | STEM DIAM mm | BR SPREAD m                          | HGT OF CRN CLRN m | AGE | PHYS COND | STRUCTURAL CONDITION.                                                                                                                                                                                                                                                               | PRELIMINARY MANAGEMENT RECOMMENDATIONS                                                                                      | EST. REMAIN CONT years | CAT |
|-------|--------------------------------|-------|--------------|--------------------------------------|-------------------|-----|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------|-----|
| T14   | Acer platanoides, Norway Maple | 12m   | 310mm        | N 3.5m<br>E 3.9m<br>S 4.5m<br>W 5.1m | 3m                | M   | Good      | Main trunk divides at 3m to form a multi-stemmed crown<br><br>Old branch removed from main stem at 2m to the south west which has been very poorly done.<br><br>This tree has a good crown                                                                                          | Prune shortened branch back to the branch collar in accordance with BS 3998                                                 | 20                     | B2  |
| T15   | Tilia sp, Lime                 | 8m    | 180mm        | N 3.6m<br>E 3.6m<br>S 3.4m<br>W 3.5m | 1.5m              | M   | Good      | Main trunk divides at 2-2.5m to produce four stems.<br><br>Sucker shoots on the main stem up to 2m.<br><br>Nice crown.                                                                                                                                                              | Remove sucker shoots                                                                                                        | 40                     | B2  |
| T16   | Fraxinus excelsior, Common Ash | 11m   | 230mm        | N 4.5m<br>E 2.8m<br>S 3.7m<br>W 4.2m | 3m                | M   | Fair      | Main trunk divides to two at 2.5m with both stems paralleling each other through the crown. Main stem to the east has a damaged branch which is split at the point of attachment at 4m<br><br>Old branch stub to the east at 2m- poor pruning<br><br>Minor dead hung up twig/branch | Remove damaged branch, hung up minor dead twigs and prune branch stubs back to the branch collar in accordance with BS 3998 | 40                     | B2  |

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| TR NO | SPECIES                           | HGT m | STEM DIAM mm | BR SPREAD m                          | HGT OF CRN CLRN m | A G E | PHYS COND | STRUCTURAL CONDITION.                                                                                                                                                                                                                                                                                                                                                   | PRELIMINARY MANAGEMENT RECOMMENDATIONS                                                                                                                             | EST. REMAIN CONT years | C A T |
|-------|-----------------------------------|-------|--------------|--------------------------------------|-------------------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------|
| T17   | Fraxinus excelsior,<br>Common Ash | 13m   | 320mm        | N 5.2m<br>E 5.3m<br>S 5.2m<br>W 3.6m | 4m                | M     | Good      | One main trunk throughout the overall crown.<br><br>Crossing and rubbing branch at 6m to the south at 0.3m from the main stem<br><br>Some dead small branches<br>Old branch stubs due to poor pruning at 2.5m to the south east.<br><br>Nice crown                                                                                                                      | Selective thin to remove the branch rubbing problem.<br><br>Remove small dead branches and prune branch stubs back to the branch collar in accordance with BS 3998 | 40                     | B2    |
| T18   | Quercus robur,<br>English Oak     | 13m   | 320mm        | N 4.5m<br>E 6.2m<br>S 5.6m<br>W 3.7m | 2m                | M     | Good      | The main stem is straight up to 4m at which point it has suffered a failure with the leading shot which has caused it to grow away at a near right angle and then assumes a vertical bias again. At 5m the main trunk then sub-divides to form a multi-stemmed crown.<br>Old branch stubs due to poor pruning at 2.5m.<br><br>String embedded in the main trunk at 1.8m | Prune branch stubs back to the branch collar in accordance with BS 3998.<br><br>Remove string from main trunk                                                      | 40                     | B2    |

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| TR NO | SPECIES                        | HGT m | STEM DIAM mm | BR SPREAD m                          | HGT OF CRN CLRN m | A G E | PHYS COND | STRUCTURAL CONDITION.                                                                                                                                                                             | PRELIMINARY MANAGEMENT RECOMMENDATIONS                                                                                                         | EST. REMAIN CONT years | C A T |
|-------|--------------------------------|-------|--------------|--------------------------------------|-------------------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------|
| T19   | Quercus robur, English Oak     | 9m    | 220mm        | N 4.5m<br>E 4.0m<br>S 4.4m<br>W 3.3m | 2m                | M     | Fair      | Main trunk divides to two at 2.5m.<br><br>Numerous old pruning stubs at 2.5m. Some dead small branches<br><br>Suppressed by T18<br><br>Some old plastic wire/washing line wrapped around the stem | Remove small dead branches and prune branch stubs back to the branch collar in accordance with BS 3998.<br>Remove plastic wire from main trunk | 40                     | B2    |
| T20   | Fraxinus excelsior, Common Ash | 9m    | 230mm        | N 3.1m<br>E 3.3m<br>S 4.3m<br>W 3.9m | 2m                | M     | Good      | One main stem throughout the overall crown.<br><br>Some dead twigs/small branches<br><br>Well branched, nice crown.                                                                               | Remove small dead branches back to the branch collar in accordance with BS 3998                                                                | 40                     | B2    |
| T21   | Sorbus aria, Whitebeam         | 8m    | 260mm        | N 3.2m<br>E 3.4m<br>S 4.1m<br>W 4.2m | 2.5m              | M     | Good      | Main trunk divides at 3m to produce a multi-stemmed crown.<br><br>Wire embedded in the lowest branch to the east at the point of attachment to the main trunk<br><br>Congested but nice crown     | Remove wire from the lowest branch.                                                                                                            | 20                     | B2    |

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| TR NO | SPECIES                                                      | HGT m | STEM DIAM mm | BR SPREAD m                          | HGT OF CRN CLRN m | A G E | PHYS COND | STRUCTURAL CONDITION.                                                                                                                                                               | PRELIMINARY MANAGEMENT RECOMMENDATIONS                                                                                      | EST. REMAIN CONT years | C A T |
|-------|--------------------------------------------------------------|-------|--------------|--------------------------------------|-------------------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------|-------|
| T22   | Fraxinus excelsior, Common Ash                               | 10m   | 240mm        | N 3.9m<br>E 4.2m<br>S 4.4m<br>W 4.2m | 2.5m              | M     | Good      | Main trunk divides to two at 4m<br><br>Piece of old string on main trunk at 2m.<br><br>Some dead twigs/small branches                                                               | Remove string from main trunk.<br><br>Remove small dead twigs/branches back to the branch collar in accordance with BS 3998 | 40                     | B2    |
| H1    | Crataegus monogyna, Hawthorn and Acer campestre, Field Maple | 6-8m  | 150-200mm    | Ave Crown spread 3m overall          | GL                | M     | Fair      | Good boundary hedge branched down to ground level. Vigorous annual growth. It has been clipped at some time in the past but does not appear to be on any specific maintenance cycle | Clip on an annual basis outside of the bird nesting season                                                                  | 40                     | B2    |

## **ROOT PROTECTION ZONE**

The attached sheet(s) provide the root protection areas for each tree on site that is recommended for retention. This allows for developers to calculate the distance within which they can build in proximity to each tree.

I have provided two figures, these being;

### **The Overall Root protection zone.**

This is in effect the total area around the trees canopy and rooting area which is required to be kept free of any development or encroachment to ensure it survives the development and post development period.

### **The Root Protection Radius**

This is the radius of any area necessary to meet the requirements of the overall root protection zone. This should ideally be applied across the full width of the trees canopy.

**NB These calculations are in accordance with the requirements of the British Standard Institute Specification 5837, 2005**

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Carried out on behalf of client: B. Kalar  
Agent: Brian Marsh MCIAT, Andromeda Architecture Ltd.

| TR NO | SPECIES                                            | TRUNK DIAMETER | ROOT PROTECTION AREA RADIUS | OVERALL ROOT PROTECTION AREA |
|-------|----------------------------------------------------|----------------|-----------------------------|------------------------------|
| T1    | Acer platanoides, Norway Maple.                    | 380mm          | 4.56m                       | 65.33 sq mt                  |
| T2    | Crataegus sp<br>Possibly prunifolia or X Lavellei. | R              | R                           | R                            |
| T3    | Fagus sylvatica, Common Beech.                     | 260mm          | 3.12m                       | 30.59 sq mt                  |
| T4    | Fagus sylvatica, Common Beech.                     | 310mm          | 3.72m                       | 43.48 sq mt                  |
| T5    | Sorbus aria, Whitebeam.                            | 270mm          | 3.24m                       | 32.98 sq mt                  |
| T6    | Acer platanoides, Norway Maple.                    | 350mm          | 4.20m                       | 55.42 sq mt                  |
| T7    | Tilia sp, Lime.                                    | 280mm          | 3.36m                       | 35.47 sq mt                  |
| T8    | Tilia sp, Lime.                                    | 300mm          | 3.60m                       | 40.72 sq mt                  |
| T9    | Fraxinus excelsior, Common Ash.                    | 230mm          | 2.76m                       | 23.93 sq mt                  |
| T10   | Fraxinus excelsior, Common Ash.                    | 270mm          | 3.24m                       | 32.98 sq mt                  |
| T11   | Fraxinus excelsior, Common Ash.                    | 290mm          | 3.48m                       | 38.05 sq mt                  |
| T12   | Sorbus aria, Whitebeam.                            | 110mm          | 1.32m                       | 5.47 sq mt                   |
| T13   | Acer platanoides, Norway Maple.                    | 320mm          | 3.84m                       | 46.33 sq mt                  |
| T14   | Acer platanoides, Norway Maple.                    | 310mm          | 3.72m                       | 43.48 sq mt                  |

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Agent: Brian Marsh MCIAT, Andromeda Architecture Ltd.

| TR NO | SPECIES                                                                                   | TRUNK DIAMETER        | ROOT PROTECTION AREA RADIUS | OVERALL ROOT PROTECTION AREA                                                                                                                                                                                            |
|-------|-------------------------------------------------------------------------------------------|-----------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| T15   | Tilia sp,<br>Lime.                                                                        | 180mm                 | 2.16m                       | 14.66 sq mt                                                                                                                                                                                                             |
| T16   | Fraxinus excelsior,<br>Common Ash.                                                        | 230mm                 | 2.76m                       | 23.93 sq mt                                                                                                                                                                                                             |
| T17   | Fraxinus excelsior,<br>Common Ash.                                                        | 320mm                 | 3.84m                       | 46.33 sq mt                                                                                                                                                                                                             |
| T18   | Quercus robur,<br>English Oak.                                                            | 320mm                 | 3.84m                       | 46.33 sq mt                                                                                                                                                                                                             |
| T19   | Quercus robur,<br>English Oak.                                                            | 220mm                 | 2.64m                       | 21.90 sq mt                                                                                                                                                                                                             |
| T20   | Fraxinus excelsior,<br>Common Ash.                                                        | 230mm                 | 2.76m                       | 23.93 sq mt                                                                                                                                                                                                             |
| T21   | Sorbus aria,<br>Whitebeam.                                                                | 260mm                 | 3.12m                       | 30.59 sq mt                                                                                                                                                                                                             |
| T22   | Fraxinus excelsior,<br>Common Ash.                                                        | 240mm                 | 2.88m                       | 26.06 sq mt                                                                                                                                                                                                             |
| H1    | Hedgerow<br>comprising of<br>Crataegus<br>monogyna and<br>Acer campestre,<br>Field Maple. | Average 150-<br>200mm |                             | I recommend a<br>working distance of 2m<br>from the edge of the<br>crown spread if any of<br>the hedgerow is to be<br>saved. This should be<br>fenced off accordingly<br>to 2m from the edge of<br>the furthest branch. |

