

BRITISH STANDARD 5837

TREE INVENTORIES AND RISK ASSESSMENTS

TREE SURVEYS ARBORICULTURAL IMPLICATION STUDIES

WOODLAND MANAGEMENT PLANS

TPO/PLANNING ADVICE/ PROJECT MANAGEMENT

TREE PLANTING SCHEMES

TPO RE-SURVEY



# ARBORICULTURAL IMPLICATIONS ASSESSMENT

PROPOSED DEVELOPMENT

AT

THE AGEAS BOWL  
SOUTHAMPTON

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## 1.0 Introduction

- 1.1 Mulberry Tree Management were instructed by Land Advisory, to carry out an arboricultural survey of trees at their site in Marshall Drive, Southampton.
- 1.2 This report details the arboricultural implications of developing the site, including:
  - a survey of the trees on and near the development which may impact the proposal from ground level, noting their location, species and all relevant parameters, i.e. stem diameter, height, crown spread, condition etc;
  - providing advice on the removal, retention and management of trees;
  - assessment of the potential effects of the proposal on retained trees and vice versa;
  - assessment of the requirement for tree protection for the duration of the works;
  - mitigation for any loss;
  - preparation of a tree schedule;
  - and report on the above matters.
- 1.3 The survey was carried out on 18 February 2022 by means of inspection from ground level by an experienced and qualified arboriculturalist. The inspection can be restricted in cases where trees were Ivy clad or surrounded by vegetation.
- 1.4 Under *BS5837: 2012 Trees in Relation to Construction - Recommendations*, the assessment of trees is made objectively. The tree categorisation method identifies the quality and value of the existing tree stock, allowing informed decisions to be made concerning development design layout.
- 1.5 The following documents have been made available by the client:
  - Drawing- topo2021.dwg
  - Drawing- 21016\_GA Masterplan\_210623 Revision I (bound).dwg
- 1.6 The supplied drawing included some tree positions plotted. Any dimensions regarding tree positions and protective fencing must be checked on site.
- 1.7 Weather conditions during the survey were wet and windy.
- 1.8 The survey was carried out noting the conditions of the trees at the time of inspection. As trees are part of the natural environment, conditions can naturally change; therefore the contents of this report are valid for one year only. After this period, re-inspection may be necessary.

## **2.0 Survey Methodology**

- 2.1 The trees were surveyed (prefixed T, or G for group) and recorded in the tree schedule in appendix one. Where groups are recorded, average height and diameter at breast height (DBH) of the trees in the group are reported. Where access to the base of any trees was limited, stem size was estimated.
- 2.2 All the trees were assessed using: a grading A to C (retention) and U (removal); condition and age class as defined in appendix two.
- 2.3 Where appropriate, canopy spread for each tree was recorded at four cardinal points in order to reproduce an accurate representation of the crown shape of the tree on the tree plan in appendix three.
- 2.4 The survey included all trees within the proposal area and trees near to the proposal.
- 2.5 Sight lines were difficult to establish during the survey due to the dense vegetation hence trees were grouped appropriately.

## **3.0 Development Proposals**

- 3.1 Due to the proposed development and its associated infrastructure there are a number of locations where the proposals are in close proximity to the trees surveyed. The Site Layout Plan within appendix three identifies the trees in relation to the proposed development.
- 3.2 In order to fully assess the impact of the proposals an Impact Table has been created detailing each tree, which shows the proximity of the associated works to the tree.
- 3.3 This can then be assessed in accordance with BS 5837:2012 to determine whether the development will have a detrimental impact on the health of each tree. Once this has been determined remedial measures can be detailed to reduce the impact the proposals will have on the treescape.
- 3.4 To assist in the consideration of the application the impacts have been broken down into each of their character areas.

### 3.5 Character Area 1

| Tree No. | Root Protection Area identified in Table 2 of BS 5837:2012     | Distance to Proposed Hard Standing (m) | Distance to Proposed Development (m) | Can the Tree/s be Successfully Retained |
|----------|----------------------------------------------------------------|----------------------------------------|--------------------------------------|-----------------------------------------|
| T1       | 132m <sup>2</sup>                                              | 5.00                                   | 7.00                                 | No                                      |
| T2       | 290m <sup>2</sup>                                              | 16.00                                  | 11.00                                | Yes                                     |
| T3       | 92m <sup>2</sup>                                               | 20.00                                  | 12.00                                | Yes                                     |
| T4       | 275m <sup>2</sup>                                              | 15.00                                  | 11.00                                | Yes                                     |
| T5       | 290m <sup>2</sup>                                              | 19.00                                  | 12.00                                | Yes                                     |
| T6       | 408m <sup>2</sup>                                              | 27.00                                  | 14.00                                | Yes                                     |
| G7       | 26m <sup>2</sup>                                               | 3.00                                   | 4.00                                 | Yes                                     |
| T8       | 72m <sup>2</sup>                                               | 2.00                                   | 20.00                                | No                                      |
| T9       | 35m <sup>2</sup>                                               | 3.00                                   | 17.00                                | No                                      |
| G10      | 20m <sup>2</sup>                                               | 4.00                                   | 25.00                                | Yes                                     |
| G11      | 9m <sup>2</sup>                                                | 11.00                                  | 33.00                                | Yes                                     |
| G12      | 350m <sup>2</sup>                                              | 8.00                                   | 22.00                                | Yes as outlined in section 5.1          |
| G13      | 163m <sup>2</sup>                                              | 5.00                                   | 34.00                                | Yes                                     |
| G14      | 366m <sup>2</sup>                                              | 8.00                                   | 76.00                                | Yes as outlined in section 5.1          |
| G15      | 24m <sup>2</sup>                                               | 2.00                                   | 33.00                                | Yes                                     |
| G16      | 72m <sup>2</sup>                                               | 1.00                                   | 39.00                                | Yes as outlined in section 5.1          |
| T17      | 222m <sup>2</sup>                                              | 8.00                                   | 59.00                                | Yes                                     |
| G18      | 55m <sup>2</sup>                                               | 7.00                                   | 59.00                                | Yes                                     |
| T19      | 191m <sup>2</sup>                                              | 13.00                                  | 64.00                                | Yes                                     |
| G20      | 41m <sup>2</sup>                                               | 4.00                                   | 72.00                                | Part Retain/Part Remove                 |
| G20a     | 72m <sup>2</sup>                                               | 5.00                                   | 79.00                                | Part Retain/Part Remove                 |
| T21      | 319m <sup>2</sup>                                              | 18.00                                  | 154.00                               | Yes                                     |
| T22      | 142m <sup>2</sup>                                              | 17.00                                  | 157.00                               | Yes                                     |
| T23      | 92m <sup>2</sup>                                               | 13.00                                  | 156.00                               | Yes                                     |
| T24      | 350m <sup>2</sup>                                              | 18.00                                  | 170.00                               | Yes                                     |
| T25      | 255m <sup>2</sup>                                              | 17.00                                  | 169.00                               | Yes                                     |
| T26      | Not Assessed as the Tree Requires Removal Due to its Condition |                                        |                                      |                                         |
| G27      | 69m <sup>2</sup>                                               | 3.00                                   | 127.00                               | No                                      |
| G28      | 7m <sup>2</sup>                                                | 1.00                                   | 148.00                               | Yes                                     |
| T29      | 282m <sup>2</sup>                                              | 12.00                                  | 94.00                                | Yes                                     |
| T30      | 180m <sup>2</sup>                                              | 8.00                                   | 91.00                                | Yes                                     |
| T31      | 113m <sup>2</sup>                                              | 9.00                                   | 90.00                                | Yes                                     |
| G32      | 163m <sup>2</sup>                                              | 9.00                                   | 88.00                                | Yes                                     |
| G33a     | 92m <sup>2</sup>                                               | 6.00                                   | 83.00                                | Yes                                     |
| G33b     | 147m <sup>2</sup>                                              | 9.00                                   | 83.00                                | Yes                                     |
| G33c     | 72m <sup>2</sup>                                               | 11.00                                  | 85.00                                | Yes                                     |
| T34      | Not Assessed as the Tree Requires Removal Due to its Condition |                                        |                                      |                                         |
| G35      | Fell Due to Direct Impact of Development                       |                                        |                                      |                                         |

| Tree No. | Root Protection Area identified in Table 2 of BS 5837:2012 | Distance to Proposed Hard Standing (m) | Distance to Proposed Development (m) | Can the Tree/s be Successfully Retained |
|----------|------------------------------------------------------------|----------------------------------------|--------------------------------------|-----------------------------------------|
| G36      | Fell Due to Direct Impact of Development                   |                                        |                                      |                                         |
| G37      | 31m <sup>2</sup>                                           | N/A                                    | N/A                                  | Yes                                     |

### 3.6 Character Area 2 & 3

| Tree No. | Root Protection Area identified in Table 2 of BS 5837:2012     | Distance to Proposed Hard Standing (m) | Distance to Proposed Development (m) | Can the Tree/s be Successfully Retained |
|----------|----------------------------------------------------------------|----------------------------------------|--------------------------------------|-----------------------------------------|
| T58      | 255m <sup>2</sup>                                              | N/A                                    | N/A                                  | Yes                                     |
| T59      | 113m <sup>2</sup>                                              | N/A                                    | N/A                                  | Yes                                     |
| T60      | 707m <sup>2</sup>                                              | N/A                                    | N/A                                  | Yes                                     |
| T61      | Not Assessed as the Tree Requires Removal Due to its Condition |                                        |                                      |                                         |
| T62      | Not Assessed as the Tree Requires Removal Due to its Condition |                                        |                                      |                                         |

### 3.7 Character Area 4

| Tree No. | Root Protection Area identified in Table 2 of BS 5837:2012 | Distance to Proposed Hard Standing (m) | Distance to Proposed Development (m) | Can the Tree/s be Successfully Retained |
|----------|------------------------------------------------------------|----------------------------------------|--------------------------------------|-----------------------------------------|
| W1       | 500m <sup>2</sup>                                          | 10.00                                  | 14.00                                | Yes                                     |
| W1n      | 662m <sup>2</sup>                                          | 57.00                                  | 39.00                                | Yes                                     |
| W1o      | 342m <sup>2</sup>                                          | 86.00                                  | 55.00                                | Yes                                     |
| W1p      | 547m <sup>2</sup>                                          | 111.00                                 | 94.00                                | Yes                                     |
| W1q      | 707m <sup>2</sup>                                          | 98.00                                  | 81.00                                | Yes                                     |
| W1r      | 480m <sup>2</sup>                                          | 64.00                                  | 77.00                                | Yes                                     |
| W1s      | 304m <sup>2</sup>                                          | 62.00                                  | 49.00                                | Yes                                     |
| W1t      | 557m <sup>2</sup>                                          | 50.00                                  | 39.00                                | Yes                                     |
| G37      | 31m <sup>2</sup>                                           | 11.00                                  | 15.00                                | Yes                                     |
| T52      | 104m <sup>2</sup>                                          | 4.00                                   | 29.00                                | No                                      |
| T53      | 312m <sup>2</sup>                                          | 12.00                                  | 52.00                                | No                                      |
| G54      | 28m <sup>2</sup>                                           | 1.10                                   | 14.20                                | Yes with the loss of a small section    |
| G55      | Fell Due to Direct Impact of Development                   |                                        |                                      |                                         |
| G56      | 113m <sup>2</sup>                                          | N/A                                    | N/A                                  | Yes                                     |
| G57      | 191m <sup>2</sup>                                          | N/A                                    | N/A                                  | Yes                                     |

### 3.8 Character Area 5

| Tree No. | Root Protection Area identified in Table 2 of BS 5837:2012 | Distance to Proposed Hard Standing (m) | Distance to Proposed Development (m) | Can the Tree/s be Successfully Retained |
|----------|------------------------------------------------------------|----------------------------------------|--------------------------------------|-----------------------------------------|
| W1       | 500m <sup>2</sup>                                          | 18.00                                  | 20.00                                | Yes                                     |
| W1a      | 26m <sup>2</sup>                                           | 4.00                                   | 16.00                                | Yes                                     |

| Tree No. | Root Protection Area identified in Table 2 of BS 5837:2012       | Distance to Proposed Hard Standing (m) | Distance to Proposed Development (m) | Can the Tree/s be Successfully Retained |
|----------|------------------------------------------------------------------|----------------------------------------|--------------------------------------|-----------------------------------------|
| W1b      | Not Assessed as the Tree Requires Removal Due to its Condition   |                                        |                                      |                                         |
| W1c      | 28m <sup>2</sup>                                                 | 5.00                                   | 18.00                                | Yes                                     |
| W1d      | 480m <sup>2</sup>                                                | 27.00                                  | 41.00                                | Yes                                     |
| W1e      | 499m <sup>2</sup>                                                | 29.00                                  | 43.00                                | Yes                                     |
| W1f      | 366m <sup>2</sup>                                                | 20.00                                  | 28.00                                | Yes                                     |
| W1g      | 366m <sup>2</sup>                                                | 15.00                                  | 27.00                                | Yes                                     |
| W1h      | 366m <sup>2</sup>                                                | 27.00                                  | 27.00                                | Yes                                     |
| W1i      | 452m <sup>2</sup>                                                | 41.00                                  | 25.00                                | Yes                                     |
| W1j      | 248m <sup>2</sup>                                                | 57.00                                  | 38.00                                | Yes                                     |
| W1k      | 327m <sup>2</sup>                                                | N/A                                    | 46.00                                | Yes                                     |
| W1l      | 327m <sup>2</sup>                                                | N/A                                    | 54.00                                | Yes                                     |
| W1m      | 335m <sup>2</sup>                                                | 34.00                                  | 36.00                                | Yes                                     |
| G37      | 31m <sup>2</sup>                                                 | 26.00                                  | 29.00                                | Yes                                     |
| G37a     | Not Assessed as the Trees Require Removal Due to their Condition |                                        |                                      |                                         |
| G37b     | Not Assessed as the Trees Require Removal Due to their Condition |                                        |                                      |                                         |
| G37c     | Not Assessed as the Trees Require Removal Due to their Condition |                                        |                                      |                                         |
| G37d     | Not Assessed as the Trees Require Removal Due to their Condition |                                        |                                      |                                         |
| G38      | 92m <sup>2</sup>                                                 | 17.00                                  | 3.00                                 | Yes with the loss of a small section    |
| G39      | 41m <sup>2</sup>                                                 | 14.00                                  | 16.00                                | Yes                                     |
| G40      | 38m <sup>2</sup>                                                 | 16.00                                  | 18.00                                | Yes                                     |
| G41      | 18m <sup>2</sup>                                                 | 14.00                                  | 16.00                                | Yes                                     |
| G42      | 22m <sup>2</sup>                                                 | 14.00                                  | 17.00                                | Yes                                     |
| T43      | 59m <sup>2</sup>                                                 | 17.00                                  | 19.00                                | Yes                                     |
| G44      | 35m <sup>2</sup>                                                 | 15.00                                  | 18.00                                | Yes                                     |
| T45      | 304m <sup>2</sup>                                                | 16.00                                  | 19.00                                | Yes                                     |
| T46      | 113m <sup>2</sup>                                                | 14.00                                  | 20.00                                | Yes                                     |
| G47      | 222m <sup>2</sup>                                                | 7.00                                   | 11.00                                | Yes                                     |
| T48      | 452m <sup>2</sup>                                                | 4.00                                   | 11.00                                | Yes as outlined in section 5.1          |
| T49      | 222m <sup>2</sup>                                                | 5.00                                   | 12.00                                | Yes as outlined in section 5.1          |
| T50      | 452m <sup>2</sup>                                                | 14.00                                  | 22.00                                | Yes                                     |
| T51      | 366m <sup>2</sup>                                                | 17.00                                  | 27.00                                | Yes                                     |

## 4.0 Impact Assessment

- 4.1 To assess the implications of the Impact Table each tree can be categorised in the following way. Again, to assist this has been broken down into each character area: -

#### 4.2 Character Area 1 & 2

|          | Trees to be retained                                                                                                                                       |                            | Trees to be removed |                                                   |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------|---------------------------------------------------|
|          | With No Impact                                                                                                                                             | With detailed construction | Due to Condition    | Due to Development                                |
| Tree No. | T2, T3, T4, T5, T6, G7, G10, G11, G13, G15, T17, G18, T19, G20(part), G20a(part), T21, T22, T23, T24, T25, G28, T29, T30, T31, G32, G33a, G33b, G33c & G37 | G12, G14 & G16             | T26 & T34           | T1, T8, T9, G20(part), G20a(part), G27, G35 & G36 |

| Trees to Be Removed Due to Development | Tree No                        | Total Tree Loss |
|----------------------------------------|--------------------------------|-----------------|
| Cat A                                  | N/A                            | 0               |
| Cat B                                  | T1, T8, G20(part) & G20a(part) | 16              |
| Cat C                                  | T9, G27, G35 & G36             | 23              |

#### 4.3 Character Area 3

|          | Trees to be retained |                            | Trees to be removed |                    |
|----------|----------------------|----------------------------|---------------------|--------------------|
|          | With No Impact       | With detailed construction | Due to Condition    | Due to Development |
| Tree No. | T58, T59 & T60       | N/A                        | T61 & T62           | N/A                |

#### 4.4 Character Area 4

|          | Trees to be retained                             |                            | Trees to be removed |                                    |
|----------|--------------------------------------------------|----------------------------|---------------------|------------------------------------|
|          | With No Impact                                   | With detailed construction | Due to Condition    | Due to Development                 |
| Tree No. | W1, W1n, W1o, W1p, W1q, W1r, W1s, W1t, G37 & G54 | G56 & G57                  | N/A                 | T52, T53, G54(small section) & G55 |

| Trees to Be Removed Due to Development | Tree No        | Total Tree Loss |
|----------------------------------------|----------------|-----------------|
| Cat A                                  | N/A            | 0               |
| Cat B                                  | T53            | 1               |
| Cat C                                  | T52, G54 & G55 | 20              |

#### 4.5 Character Area 5

|          | Trees to be retained                                                                                                             |                            | Trees to be removed          |                    |
|----------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------|--------------------|
|          | With No Impact                                                                                                                   | With detailed construction | Due to Condition             | Due to Development |
| Tree No. | W1, W1a, W1c, W1d, W1e, W1f, W1g, W1h, W1i, W1j, W1k, W1l, W1m, G37, G38, G39, G40, G41, G42, T43, G44, T45, T46, G47, T50 & T51 | T48 & T49                  | W1b, G37a, G37b, G37c & G37d | G38(small section) |

| Trees to Be Removed Due to Development | Tree No | Total Tree Loss |
|----------------------------------------|---------|-----------------|
| Cat A                                  | N/A     | 0               |
| Cat B                                  | G38     | 5               |
| Cat C                                  | N/A     | 0               |

## 5.0 Mitigation Proposals

### 5.1 Hard Standing

5.1.1 The impact table shows the proposed car parking having a minor encroachment into the root protection area of G12, G14, G16, T48 & T49. It is felt that due to the species, condition and limited extent of encroachment the proposal will not have a detrimental impact on the safe useful life expectancy of these trees.

5.1.2 If ground levels remain the same, the detrimental effects the driveway would have on this tree would be: -

- Compaction, resulting in oxygen depletion, caused from creating the access way.
- The loss of a permeable surface.

- 5.1.3 It is now possible with the use of a cellular confinement system to be able to create road surfaces very close to trees without having a detrimental effect.
- 5.1.4 A cellular confinement system provides a load transfer mattress which prevents direct loads on tree roots and reduces the bearing pressure on subsoil's by stabilising aggregate surfaces against rutting under wheel loads.
- 5.1.5 Section 7.4.2.3 of BS 5837:2012 advises that new permanent hard surfacing should not exceed 20% of any existing unsurfaced ground within the RPA. The table below details the amount of new surface proposed within the RPA of each tree.

| Tree No | Total Area m2 of RPA | Total m2 of New Hard Surfacing within the RPA | Percentage of Hard Surfacing within the RPA |
|---------|----------------------|-----------------------------------------------|---------------------------------------------|
| G12     | 350                  | 18.00                                         | 5.20                                        |
| G14     | 366                  | 50.00                                         | 13.70                                       |
| G16     | 72                   | 8.00                                          | 11.20                                       |
| T48     | 452                  | 70.00                                         | 15.50                                       |
| T49     | 222                  | 28.00                                         | 12.70                                       |

- 5.1.6 As you can see from the table, with the exception of G56 & T51 the proposed hard surfacing does not exceed 20% for each of the RPA's. It is therefore felt that the proposed driveway will not have a detrimental impact upon the existing trees.

## 5.2 Proposed Path

- 5.2.1 The impact table also shows a proposed path having a minor encroachment into the root protection area of W1p & W1q. This footpath is informal in nature and will be of a sympathetic construction not requiring any works that will have a detrimental impact on the two trees. It is therefore felt that due to the species, condition and limited extent of encroachment the proposal will not have a detrimental impact on the safe useful life expectancy of these trees.

## 5.3 Compensatory Planting

- 5.3.1 Due to the loss of the trees identified in section 3.4 it is proposed that along with the general soft landscaping for the development, supplementary tree planting will support the application.
- 5.3.2 This will have a number of benefits for the development and the character of the area. These being:-
- Give a greater diversity of age class on the site; increasing sustainability.
  - Give a greater diversity of species and therefore wildlife habitat.

5.3.3 The proposed landscaping is to be submitted to support the application.

## **6.0 Conclusions and Arboricultural Recommendations**

- 6.1 The tree categorisation method identifies the quality and value of the existing tree stock but it is not meant to be interpreted rigidly and is presented in order to form a balanced judgement on tree retention and removal.
- 6.2 A precautionary method of working near trees is detailed in the accompanying Arboricultural Method Statement.
- 6.3 Following site development, regular (annual or biannual) inspections of all retained trees should be undertaken by a qualified Arboricultural Consultant.
- 6.4 It is considered that in following the advice in this document, any negative factors affecting trees on the site will be minimised.

# **Appendix One**

## **Tree Survey Schedule**

# BS5837:2012 TREE SCHEDULE



DATE OF SURVEY: 18/02/2022

JOB REFERENCE: MTM0171.AIA.01

SITE ADDRESS: The Ageas Bowl

| Tree No. | Species                  | Stem Dia (mm) | RPA (m <sup>2</sup> ) | RPA Radius (m) | Height (m) | Age Class | Crown Spread (m) |     |     |     | Crown Clearance (m) | Condition | Comments                                                                                                                                          | Recommendations                                               | Remaining Contribution | BS5837 Retention Category |
|----------|--------------------------|---------------|-----------------------|----------------|------------|-----------|------------------|-----|-----|-----|---------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------|---------------------------|
|          |                          |               |                       |                |            |           | N                | E   | S   | W   |                     |           |                                                                                                                                                   |                                                               |                        |                           |
| T1       | Oak                      | 540           | 132                   | 6.48           | 11         | EM        | 4                | 3   | 8   | 5   | 1S                  | A         | Located in woodland belt at base of bank adjacent to access road. Highly visible from public viewpoints. Asymmetrical crown due to adjacent trees | No action                                                     | 80+                    | B2                        |
| T2       | Oak                      | 800           | 290                   | 9.6            | 14         | M         | 5                | 9   | 10  | 7   | 1S                  | B         | Located within wider woodland belt. Reduced vitality. Asymmetrical crown. Deadwood and dieback. Acceptable condition. Good environmental benefit. | No action                                                     | 40+                    | A3                        |
| T3       | Beech                    | 450           | 92                    | 5.4            | 12         | EM        | 5                | 3   | 7   | 4   | 1S                  | A         | Located in wider woodland belt. Good vitality. Codominant form.                                                                                   | No action                                                     | 40+                    | B2                        |
| T4       | Oak                      | 780           | 275                   | 9.36           | 14         | EM        | 3                | 5   | 8   | 5   | 2S                  | A         | Asymmetrical crown. Good vitality. Located in wider woodland group.                                                                               | No action                                                     | 40+                    | B2                        |
| T5       | Oak                      | 800           | 290                   | 9.6            | 14         | M         | 5                | 7   | 8   | 6   | 2S                  | A         | Located in wider woodland belt. Good form and vitality.                                                                                           | No action                                                     | 80+                    | A1                        |
| T6       | Oak                      | 950           | 408                   | 11.4           | 15         | M         | 9                | 9   | 10  | 7   | 1S                  | A         | Located in wider woodland belt. Good form and vitality.                                                                                           | No action                                                     | 80+                    | A1                        |
| G7       | Beech. Birch. Pine. Oak. | 240           | 26                    | 2.88           | 14         | SM        | 2                | 2   | 2   | 2   | 3N                  | A to C    | A linear woodland belt. Dead and leaning trees present.                                                                                           | Remove dead and leaning trees within falling distance of road | 80+                    | B2                        |
| T8#      | Beech                    | 400           | 72                    | 4.8            | 13         | SM        | 5                | 5   | 3   | 2   | 5N                  | B         | Stem belled. Minor deadwood. Estimated position.                                                                                                  | No action                                                     | 20+                    | B1                        |
| T9#      | Hawthorn                 | 280           | 35                    | 3.36           | 4          | EM        | 2.5              | 2.5 | 2.5 | 2.5 | 0N                  | A         | Multi stemmed from ground level. Good vitality. Suppressed.                                                                                       | No action                                                     | 20+                    | C1                        |
| G10#     | Beech x 2                | 210           | 20                    | 2.52           | 13         | SM        | 3                | 3   | 3   | 3   | 0S                  | A         | Good form and vitality. Located adjacent to street lamp.                                                                                          | No action                                                     | 40+                    | B2                        |
| G11#     | Oak x 2                  | 140           | 9                     | 1.68           | 10         | SM        | 1.5              | 1.5 | 1.5 | 1.5 | 2E                  | A         | A group of 2 trees adjacent to road.                                                                                                              | No action                                                     | 40+                    | C2                        |

# BS5837:2012 TREE SCHEDULE



DATE OF SURVEY: 18/02/2022

JOB REFERENCE: MTM0171.AIA.01

SITE ADDRESS: The Ageas Bowl

| Tree No. | Species        | Stem Dia (mm) | RPA (m <sup>2</sup> ) | RPA Radius (m) | Height (m) | Age Class | Crown Spread (m) |     |     |     | Crown Clearance (m) | Condition | Comments                                                                                                                                  | Recommendations                                  | Remaining Contribution | BS5837 Retention Category |
|----------|----------------|---------------|-----------------------|----------------|------------|-----------|------------------|-----|-----|-----|---------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------|---------------------------|
|          |                |               |                       |                |            |           | N                | E   | S   | W   |                     |           |                                                                                                                                           |                                                  |                        |                           |
| G12      | Oak x 2        | 880           | 350                   | 10.56          | 17         | M         | 8                | 8   | 8   | 6   | 3S                  | A         | Located at base of bank adjacent to road. Good vitality. No significant risk features observed.                                           | No action                                        | 80+                    | A2                        |
| G13      | Oak x 3        | 600           | 163                   | 7.2            | 12         | EM        | 5                | 5   | 6   | 5   | 1S                  | A         | Ivy clad. Limited inspection. Good vitality. Trees appear stable. Highly visible from public viewpoints.                                  | No action                                        | 40+                    | A2                        |
| G14      | Oak x 3        | 900           | 366                   | 10.8           | 13         | M         | 6                | 6   | 6   | 6   | 4S                  | B         | Reduced vitality. Ivy prevented a detailed inspection. Dieback and deadwood. Acceptable condition. Highly visible from public viewpoints. | Strip Ivy from eastern most Oak and inspect base | 40+                    | B2                        |
| G15      | Mixed          | 230           | 24                    | 2.76           | 9          | Y to SM   | 3                | 4   | 4   | 4   | 0N                  | A to B    | Located on bank. Acceptable condition.                                                                                                    | No action                                        | 40+                    | C2                        |
| G16      | Poplar x 3     | 400           | 72                    | 4.8            | 10         | SM        | 5                | 5   | 5   | 5   | 1E                  | B         | Codominant form. Stems leans. Good vitality.                                                                                              | No action                                        | 40+                    | B2                        |
| T17      | Oak            | 700           | 222                   | 8.4            | 14         | EM        | 2                | 5   | 5   | 4   | 4S                  | A         | Ivy on stem limited inspection. Good vitality. Asymmetrical crown.                                                                        | No action                                        | 40+                    | B2                        |
| G18      | Oak x 5        | 350           | 55                    | 4.2            | 13         | EM        | 3                | 5   | 5   | 5   | 1S                  | B         | Stem decay at base of 1 tree. Asymmetrical crown due to adjacent trees. Acceptable condition.                                             | No action                                        | 40+                    | B2                        |
| T19      | Oak            | 650           | 191                   | 7.8            | 15         | EM        | 6                | 6   | 6   | 6   | 6S                  | A         | Estimated measurements. No access to inspect. Good vitality.                                                                              | No action                                        | 40+                    | B1                        |
| G20      | Pine. Oak. Ash | 300           | 41                    | 3.6            | 15         | SM        | 3.5              | 3.5 | 3.5 | 3.5 | 10N                 | A to B    | Pine stand. Good vitality. Some Ash and oak within woodland.                                                                              | No action                                        | 40+                    | B2                        |
| G20a     | Pine. Oak. Ash | 400           | 72                    | 4.8            | 15         | SM        | 3.5              | 3.5 | 3.5 | 3.5 | 10N                 | A to B    | Pine stand. Good vitality. Some Ash and oak within woodland.                                                                              | No action                                        | 40+                    | B2                        |

# BS5837:2012 TREE SCHEDULE



DATE OF SURVEY: 18/02/2022

JOB REFERENCE: MTM0171.AIA.01

SITE ADDRESS: The Ageas Bowl

| Tree No. | Species        | Stem Dia (mm) | RPA (m <sup>2</sup> ) | RPA Radius (m) | Height (m) | Age Class | Crown Spread (m) |   |   |    | Crown Clearance (m) | Condition | Comments                                                                                                       | Recommendations  | Remaining Contribution | BS5837 Retention Category |
|----------|----------------|---------------|-----------------------|----------------|------------|-----------|------------------|---|---|----|---------------------|-----------|----------------------------------------------------------------------------------------------------------------|------------------|------------------------|---------------------------|
|          |                |               |                       |                |            |           | N                | E | S | W  |                     |           |                                                                                                                |                  |                        |                           |
| T21      | Oak            | 840           | 319                   | 10.08          | 15         | EM        | 8                | 3 | 4 | 10 | 7W                  | A         | Located within larger woodland. Good vitality. Asymmetrical crown due to adjacent trees. Acceptable condition. | No action        | 80+                    | B2                        |
| T22      | Sycamore       | 560           | 142                   | 6.72           | 15         | EM        | 4                | 2 | 4 | 6  | 3W                  | B         | Codominant form. Basal included union. Acceptable condition.                                                   | No action        | 40+                    | B2                        |
| T23      | Sycamore       | 450           | 92                    | 5.4            | 15         | EM        | 2                | 3 | 4 | 6  | 3S                  | A         | Good form and vitality. Located within broader woodland setting.                                               | No action        | 40+                    | B2                        |
| T24      | Sweet Chestnut | 880           | 350                   | 10.56          | 15         | EM        | 3                | 4 | 4 | 8  | 1E                  | A         | Multi stemmed from ground level. Good vitality.                                                                | No action        | 80+                    | B2                        |
| T25      | Sweet chestnut | 750           | 255                   | 9              | 9          | EM        | 7                | 7 | 4 | 4  | 3E                  | B         | Reduce vitality. Multi stemmed from ground level.                                                              | No action        | 20+                    | B2                        |
| T26      | Oak            | 420           | 80                    | 5.04           | 14         | SM        | 3                | 3 | 3 | 3  | 5N                  | C         | In extensive decline.                                                                                          | Remove           | Less than 10           | U                         |
| G27      | Oak x 3        | 390           | 69                    | 4.68           | 14         | EM        | 3                | 3 | 3 | 3  | 3S                  | B to C    | In decline. Dieback in upper crowns.                                                                           | Inspect annually | 10+                    | C2                        |
| G28      | Mixed Species  | 120           | 7                     | 1.44           | 6          | Y to SM   | 3                | 3 | 3 | 3  | 0N                  | A         | Newly established mixed woodland planting.                                                                     | No action        | 40+                    | C2                        |
| T29      | Oak            | 790           | 282                   | 9.48           | 14         | EM        | 4                | 7 | 6 | 5  | 1S                  | A         | Codominant form. Good vitality. Asymmetrical crown due to adjacent trees.                                      | No action        | 40+                    | B2                        |
| T30      | Oak            | 630           | 180                   | 7.56           | 15         | EM        | 3                | 2 | 9 | 4  | 2S                  | A         | Good vitality. Asymmetrical crown due to adjacent trees. Located within broader woodland.                      | No action        | 80+                    | B2                        |
| T31      | Oak            | 500           | 113                   | 6              | 15         | EM        | 3                | 3 | 9 | 3  | 3S                  | A         | Asymmetrical crown due to adjacent trees. Located within broader woodland.                                     | No action        | 80+                    | B2                        |

# BS5837:2012 TREE SCHEDULE



DATE OF SURVEY: 18/02/2022

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SITE ADDRESS: The Ageas Bowl

| Tree No. | Species      | Stem Dia (mm) | RPA (m <sup>2</sup> ) | RPA Radius (m) | Height (m) | Age Class | Crown Spread (m) |     |     |     | Crown Clearance (m) | Condition | Comments                                                                                                              | Recommendations            | Remaining Contribution | BS5837 Retention Category |
|----------|--------------|---------------|-----------------------|----------------|------------|-----------|------------------|-----|-----|-----|---------------------|-----------|-----------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------|---------------------------|
|          |              |               |                       |                |            |           | N                | E   | S   | W   |                     |           |                                                                                                                       |                            |                        |                           |
| G32      | Ash x 3      | 600           | 163                   | 7.2            | 13         | EM        | 2                | 3   | 10  | 4   | 1S                  | B         | A group of 3 Ash. Historically coppiced. Snapped limbs resting on ground. Decay present in base. Trees appear stable. | Monitor stability annually | 40+                    | B3                        |
| G33a     | Oak x 3      | 450           | 92                    | 5.4            | 12         | EM        | 4                | 4   | 7   | 4   | 2S                  | A         | Good form and vitality. No significant risk features observed.                                                        | No action                  | 40+                    | B2                        |
| G33b     | Oak x 2      | 570           | 147                   | 6.84           | 12         | EM        | 4                | 4   | 7   | 4   | 2S                  | A         | Good form and vitality. No significant risk features observed.                                                        | No action                  | 40+                    | B2                        |
| G33c     | Oak x 1      | 400           | 72                    | 4.8            | 12         | EM        | 4                | 4   | 7   | 4   | 2S                  | A         | Good form and vitality. No significant risk features observed.                                                        | No action                  | 40+                    | B2                        |
| T34      | Ash          | 500           | 113                   | 6              | 12         | EM        | 3                | 2   | 8   | 3   | 3S                  | C         | In extensive decline.                                                                                                 | Remove                     | Less than 10           | U                         |
| G35      | Mixed        | 60            | 2                     | 0.72           | 3          | Y         | 0.5              | 0.5 | 0.5 | 0.5 | 0N                  | A         | Various new plantings around site. Easily replaced or transplanted.                                                   | No action                  | 40+                    | C1                        |
| G36      | London Plane | 100           | 5                     | 1.2            | 6          | Y to SM   | 2.5              | 2.5 | 2.5 | 2.5 | 2N                  | A         | Newly established. Located in formal planting area adjacent to car park. Acceptable condition. Easily replaced        | No action                  | 40+                    | C2                        |
| G37      | London Plane | 260           | 31                    | 3.12           | 8          | SM        | 4.5              | 4.5 | 4.5 | 4.5 | 2N                  | B         | Commemorative trees located in grassed area adjacent to internal access road. Some trees showing signs of decline.    | No action                  | 40+                    | B2                        |
| G37a     | London Plane | 260           | 31                    | 3.12           | 4          | SM        | 4.5              | 4.5 | 4.5 | 4.5 | 2N                  | D         | Commemorative trees located in grassed area adjacent to internal access road.                                         | No action                  | Less than 10           | U                         |
| G37b     | London Plane | 260           | 31                    | 3.12           | 5          | SM        | 4.5              | 4.5 | 4.5 | 4.5 | 2N                  | D         | Commemorative trees located in grassed area adjacent to internal access road.                                         | No action                  | Less than 10           | U                         |

# BS5837:2012

## TREE SCHEDULE



DATE OF SURVEY: 18/02/2022

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SITE ADDRESS: The Ageas Bowl

| Tree No. | Species                  | Stem Dia (mm) | RPA (m <sup>2</sup> ) | RPA Radius (m) | Height (m) | Age Class | Crown Spread (m) |     |     |     | Crown Clearance (m) | Condition | Comments                                                                                                          | Recommendations | Remaining Contribution | BS5837 Retention Category |
|----------|--------------------------|---------------|-----------------------|----------------|------------|-----------|------------------|-----|-----|-----|---------------------|-----------|-------------------------------------------------------------------------------------------------------------------|-----------------|------------------------|---------------------------|
|          |                          |               |                       |                |            |           | N                | E   | S   | W   |                     |           |                                                                                                                   |                 |                        |                           |
| G37c     | London Plane             | 260           | 31                    | 3.12           | 6          | SM        | 4.5              | 4.5 | 4.5 | 4.5 | 2N                  | D         | Commemorative trees located in grassed area adjacent to internal access road.                                     | No action       | Less than 10           | U                         |
| G37d     | London Plane             | 260           | 31                    | 3.12           | 7          | SM        | 4.5              | 4.5 | 4.5 | 4.5 | 2N                  | D         | Commemorative trees located in grassed area adjacent to internal access road.                                     | No action       | Less than 10           | U                         |
| G38      | Willow. Oak. Lime. Birch | 450           | 92                    | 5.4            | 14         | SM to EM  | 6                | 6   | 6   | 6   | 0N                  | A to C    | A linear belt of trees following path of brook. Located at base of steep bank. Limited inspection due to density. | No action       | 60+                    | B2                        |
| G39#     | Oak x 2                  | 300           | 41                    | 3.6            | 8          | SM        | 4                | 4   | 4   | 5   | 2W                  | A         | Located adjacent to car park at base of steep bank. Acceptable condition.                                         | No action       | 80+                    | B2                        |
| G40#     | Oak x 2                  | 290           | 38                    | 3.48           | 8          | SM        | 3                | 5   | 2   | 5   | 1S                  | A         | Good form and vitality. No significant risk features observed.                                                    | No action       | 80+                    | C2                        |
| G41#     | Ash. Hazel. Oak          | 200           | 18                    | 2.4            | 4          | Y to SM   | 3                | 3   | 3   | 3   | 0N                  | A         | A linear group located at base of bank adjacent to car park.                                                      | No action       | 40+                    | C2                        |
| G42#     | Ash x 6                  | 220           | 22                    | 2.64           | 8          | SM        | 4                | 4   | 4   | 4   | 1S                  | A         | Good form and vitality. Located at base of bank.                                                                  | No action       | 40+                    | C2                        |
| T43#     | Oak                      | 360           | 59                    | 4.32           | 9          | SM        | 6                | 6   | 6   | 6   | 0S                  | A         | Located at base of bank.                                                                                          | No action       | 80+                    | C1                        |
| G44#     | Cypress                  | 280           | 35                    | 3.36           | 9          | SM        | 3                | 3   | 3   | 3   | 0N                  | A to B    | A linear boundary group for forming screen.                                                                       | No action       | 40+                    | B2                        |
| T45#     | Oak                      | 820           | 304                   | 9.84           | 13         | EM        | 7                | 7   | 7   | 7   | 1                   | A         | On adjacent property. Two stems from 1m.                                                                          | No action       | 20+                    | B1                        |
| T46#     | Oak                      | 500           | 113                   | 6              | 14         | EM        | 7                | 7   | 7   | 7   | 1                   | A         | On adjacent property.                                                                                             | No action       | 20+                    | B1                        |
| G47#     | Oak x 2                  | 700           | 222                   | 8.4            | 16         | EM        | 7                | 7   | 7   | 7   | 2                   | A         | On adjacent property. Estimated measurements and location.                                                        | No action       | 20+                    | B1                        |
| T48      | Oak                      | 1000          | 452                   | 12             | 17         | M         | 10               | 10  | 10  | 10  | 0                   | A         | Two stems from 1m.                                                                                                | No action       | 20+                    | B1                        |
| T49#     | Oak                      | 700           | 222                   | 8.4            | 15         | EM        | 8                | 5   | 5   | 2   | 0                   | A         | One-sided, thin crown.                                                                                            | No action       | 20+                    | B1                        |

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|----------|----------------------------|---------------|-----------------------|----------------|------------|-----------|------------------|-----|-----|-----|---------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------|---------------------------|
|          |                            |               |                       |                |            |           | N                | E   | S   | W   |                     |           |                                                                                                                                                      |                 |                        |                           |
| T50      | Oak                        | 1000          | 452                   | 12             | 17         | M         | 10               | 10  | 10  | 10  | 0                   | A         | Multi-stemmed from 3-4m. Ivy into lower crown.                                                                                                       | No action       | 40+                    | A1                        |
| T51#     | Oak                        | 900           | 366                   | 10.8           | 16         | M         | 6                | 4   | 10  | 9   | 5S                  | A         | Third party tree. Not inspected.                                                                                                                     | No action       | 80+                    | A1                        |
| T52      | Holly                      | 480           | 104                   | 5.76           | 7          | EM        | 3                | 3   | 3   | 3   | 1S                  | A         | Good form and vitality. Compaction of soil in root zone.                                                                                             | No action       | 20+                    | C1                        |
| T53      | Monkey Puzzle              | 830           | 312                   | 9.96           | 14         | EM        | 6                | 6   | 6   | 6   | 3S                  | A         | Compaction in root plate. Good vitality. Increased soil levels.                                                                                      | No action       | 40+                    | B2                        |
| G54      | Ash. Holly. Oak            | 250           | 28                    | 3              | 14         | SM        | 3                | 3   | 3   | 3   | 2S                  | B to C    | Linear group adjacent to storage area. Ash dieback present.                                                                                          | No action       | 10+                    | C2                        |
| G55      | Lime                       | 140           | 9                     | 1.68           | 5          | SM        | 1.5              | 1.5 | 1.5 | 1.5 | 2S                  | A         | Newly established formal group adjacent to car park area.                                                                                            | No action       | 80+                    | C2                        |
| G56      | Ash x 4                    | 500           | 113                   | 6              | 12         | EM        | 5                | 5   | 5   | 5   | 3N                  | B to C    | Reduced vitality. Inonotus present on stems.                                                                                                         | No action       | 10+                    | C2                        |
| G57      | Oak x 8                    | 650           | 191                   | 7.8            | 12         | EM        | 6                | 6   | 6   | 6   | 2S                  | A to B    | Located on site boundary.                                                                                                                            | No action       | 80+                    | B2                        |
| T58      | Oak                        | 750           | 255                   | 9              | 10         | EM        | 6                | 6   | 6   | 6   | 2                   | A         | Multiple stems from ground level. Poor form.                                                                                                         | No action       | 10+                    | C1                        |
| T59      | Oak                        | 500           | 113                   | 6              | 10         | EM        | 7                | 7   | 7   | 7   | 2                   | A         | Good form and vitality.                                                                                                                              | No action       | 20+                    | B1                        |
| T60      | Oak                        | 1750          | 1386                  | 21             | 10         | OM        | 7                | 7   | 7   | 7   | 2.5                 | A         | Split trunk, one-sided, veteran tree characteristics.                                                                                                | No action       | 40+                    | A3                        |
| T61      | Oak                        | 1000          | 452                   | 12             | 12         | EM        | 4                | 4   | 4   | 4   | 4                   | A         | Thin crown, dead wood, die-back, basal damage and decay.                                                                                             | No action       | Less than 10           | U                         |
| T62      | Oak                        | 1100          | 547                   | 13.2           | 14         | M         | 8                | 8   | 8   | 8   | 4                   | A         | 90% dead                                                                                                                                             | No action       | Less than 10           | U                         |
| W1       | Beech, Oak, Sweet chestnut | 500           | 113                   | 6              | 17         | Y to M    | 7                | 7   | 7   | 7   | 0N                  | A         | On adjacent property more than 2.5m into Telegraph Wood from site boundary fence. Variable condition, some old damage, large branch loss, dead wood. | No action       | 40+                    | A1                        |
| W1a#     | Oak                        | 240           | 26                    | 2.88           | 5          | SM        | 4                | 6   | 3   | 0.1 | 0E                  | B         | Fallen tree but has stabilised.                                                                                                                      | No action       | 20+                    | C1                        |
| W1b#     | Dead                       | 500           | 113                   | 6              | 14         | SM        | 6                | 6   | 6   | 6   | 3N                  | D         | Dead standing tree.                                                                                                                                  | No action       | Less than 10           | U                         |

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|----------|----------------|---------------|-----------------------|----------------|------------|-----------|------------------|----|----|----|---------------------|-----------|--------------------------|-----------------|------------------------|---------------------------|
|          |                |               |                       |                |            |           | N                | E  | S  | W  |                     |           |                          |                 |                        |                           |
| W1c#     | Oak            | 250           | 28                    | 3              | 7          | SM        | 3                | 3  | 3  | 3  | 0S                  | A         | Good form and vitality.  | No action       | 40+                    | C1                        |
| W1d#     | Oak            | 1030          | 480                   | 12.36          | 20         | M         | 7                | 7  | 7  | 7  | 0N                  | A         | Located within woodland. | No action       | 40+                    | A1                        |
| W1e#     | Sweet chestnut | 1050          | 499                   | 12.6           | 20         | M         | 7                | 7  | 7  | 7  | 0N                  | A         | Located within woodland. | No action       | 40+                    | A1                        |
| W1f#     | Oak            | 900           | 366                   | 10.8           | 18         | M         | 7                | 7  | 7  | 7  | 0N                  | A         | Located within woodland. | No action       | 40+                    | A1                        |
| W1g#     | Oak            | 900           | 366                   | 10.8           | 18         | M         | 9                | 9  | 9  | 9  | 10                  | A         | Located within woodland. | No action       | 20+                    | A1                        |
| W1h#     | Sweet chestnut | 900           | 366                   | 10.8           | 18         | M         | 7                | 7  | 7  | 7  | 0N                  | A         | Located within woodland. | No action       | 40+                    | A1                        |
| W1i#     | Oak            | 1000          | 452                   | 12             | 18         | M         | 10               | 10 | 10 | 10 | 4                   | A         | Located within woodland. | No action       | 40+                    | A1                        |
| W1j#     | Beech          | 740           | 248                   | 8.88           | 18         | M         | 7                | 7  | 7  | 7  | 0N                  | A         | Located within woodland. | No action       | 40+                    | A1                        |
| W1k#     | Oak            | 850           | 327                   | 10.2           | 18         | M         | 7                | 7  | 7  | 7  | 0N                  | A         | Located within woodland. | No action       | 40+                    | A1                        |
| W1l#     | Oak            | 850           | 327                   | 10.2           | 18         | M         | 7                | 7  | 7  | 7  | 0N                  | A         | Located within woodland. | No action       | 40+                    | A1                        |
| W1m      | Oak            | 860           | 335                   | 10.32          | 18         | M         | 7                | 7  | 7  | 7  | 0N                  | A         | Located within woodland. | No action       | 40+                    | A1                        |
| W1n#     | Oak            | 1210          | 662                   | 14.52          | 18         | M         | 7                | 7  | 7  | 7  | 0N                  | A         | Located within woodland. | No action       | 40+                    | A1                        |
| W1o#     | Oak            | 870           | 342                   | 10.44          | 18         | M         | 7                | 7  | 7  | 7  | 0N                  | A         | Located within woodland. | No action       | 40+                    | A1                        |
| W1p#     | Oak            | 1100          | 547                   | 13.2           | 18         | M         | 7                | 7  | 7  | 7  | 0N                  | A         | Located within woodland. | No action       | 40+                    | A1                        |
| W1q      | Oak            | 1350          | 825                   | 16.2           | 18         | M         | 7                | 7  | 7  | 7  | 0N                  | A         | Located within woodland. | No action       | 40+                    | A1                        |
| W1r      | Oak            | 1030          | 480                   | 12.36          | 18         | M         | 7                | 7  | 7  | 7  | 0N                  | A         | Located within woodland. | No action       | 40+                    | A1                        |
| W1s      | Oak            | 820           | 304                   | 9.84           | 18         | M         | 7                | 7  | 7  | 7  | 0N                  | A         | Located within woodland. | No action       | 40+                    | A1                        |
| W1t      | Oak            | 1110          | 557                   | 13.32          | 18         | M         | 7                | 7  | 7  | 7  | 0N                  | A         | Located within woodland. | No action       | 40+                    | A1                        |

# **Appendix Two**

## **Tree Survey Key**

|                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Trees for removal                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                       |
| Category and definition                                                                                                                                                                                                       |  | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                       |
| Category U<br>Those in such a condition that any existing value would be lost within 10 years and which should, in the current context, be removed for reasons of sound arboricultural management                             |  | 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 R category trees (i.e. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)<br>Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline<br>Trees infected with pathogens of significance to the health and/or safety of other trees nearby (e.g. Dutch elm disease), or very low quality trees suppressing adjacent trees of better quality<br><b>Note</b> – Habitat reinstatement may be appropriate (e.g. R category tree used as a bat roost: installation of bat box in nearby tree). |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                       |
| Trees to be considered for retention                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                       |
| Category and definition                                                                                                                                                                                                       |  | Criteria - Subcategories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                       |
|                                                                                                                                                                                                                               |  | 1 Arboriculture values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2 Landscape values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3 Conservation values                                                                                                                 |
| Category A<br><b>Those of high quality and value:</b> in such a condition as to be able to make a substantial contribution (a minimum 40 years is suggested)                                                                  |  | Trees that are particularly good examples of their species, especially if rare or unusual, or essential components of groups, or of formal or semi-formal arboriculture features (e.g. the dominant and/or principal trees within an avenue)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Trees, groups or woodlands which provide a definite screening or softening effect to the locality in relation to views into or out of the site, or those of particular visual importance (e.g. avenues or other arboricultural features assessed as groups)                                                                                                                                                                                                                                                 | Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood pasture) |
| Category B<br><b>Those of moderate quality and value:</b> those in such a condition as to make a significant contribution (a minimum of 20 years is suggested)                                                                |  | Trees that might be included in the high category, but are downgraded because of impaired condition (e.g. presence of remediable defects including unsympathetic past management and minor storm damage)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Trees present in numbers, usually as groups or woodlands, such that they form distinct landscape features, thereby attracting a higher collective rating than they might as individuals but which are not, individually, essential components of formal or semi-formal arboriculture features (e.g. trees of moderate quality within avenue that includes better, A category specimens), or trees situated mainly internally to the site, therefore individually having little impact on the wider locality | Trees with clearly identifiable conservation or other cultural benefits                                                               |
| Category C<br><b>Those of low quality and value:</b> currently in adequate condition to remain until new planting could be established (a minimum of 10 years is suggested), or young trees with a stem diameter below 150 mm |  | Trees not qualifying in higher categories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Trees present in groups or woodlands, but without this conferring on them significantly greater landscape value, and/or trees offering low or only temporary screening benefit                                                                                                                                                                                                                                                                                                                              | Trees with very limited conservation or other cultural benefits                                                                       |
|                                                                                                                                                                                                                               |  | <b>Note</b> - Whilst C category trees will usually not be retained where they would impose a significant constraint on development, young trees with a stem diameter of less than 150 mm should be considered for relocation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                       |

### Age Class

|    |              |                                                          |
|----|--------------|----------------------------------------------------------|
| Y  | Young        | Trees that have not yet established                      |
| SM | Semi-Mature  | Established trees up to 1/3 of expected height and crown |
| EM | Early mature | Between 1/3 and 2/3 expected height and crown            |
| M  | Mature       | Between 2/3 and full expected height and crown           |
| FM | Fully Mature | Full expected height and crown                           |
| OM | Over-Mature  | Crown beginning to break up and decrease in size         |
| S  | Senescent    | Crown in advanced stage of break-up                      |

### Condition

|   |      |
|---|------|
| A | Good |
| B | Fair |
| C | Poor |
| D | Dead |

# **Appendix Three**

## **Plans**



-  Category A Trees
-  Category B Trees
-  Category C Trees
-  Category U Trees
-  Root protection area
-  Estimated Position

Mulberry TMC  
Adamson House  
Towers Business Park  
Wilmslow Road  
Didsbury  
M20 2YY

Tel: 0161 955 3628  
Email: info@mulberrytmc.co.uk



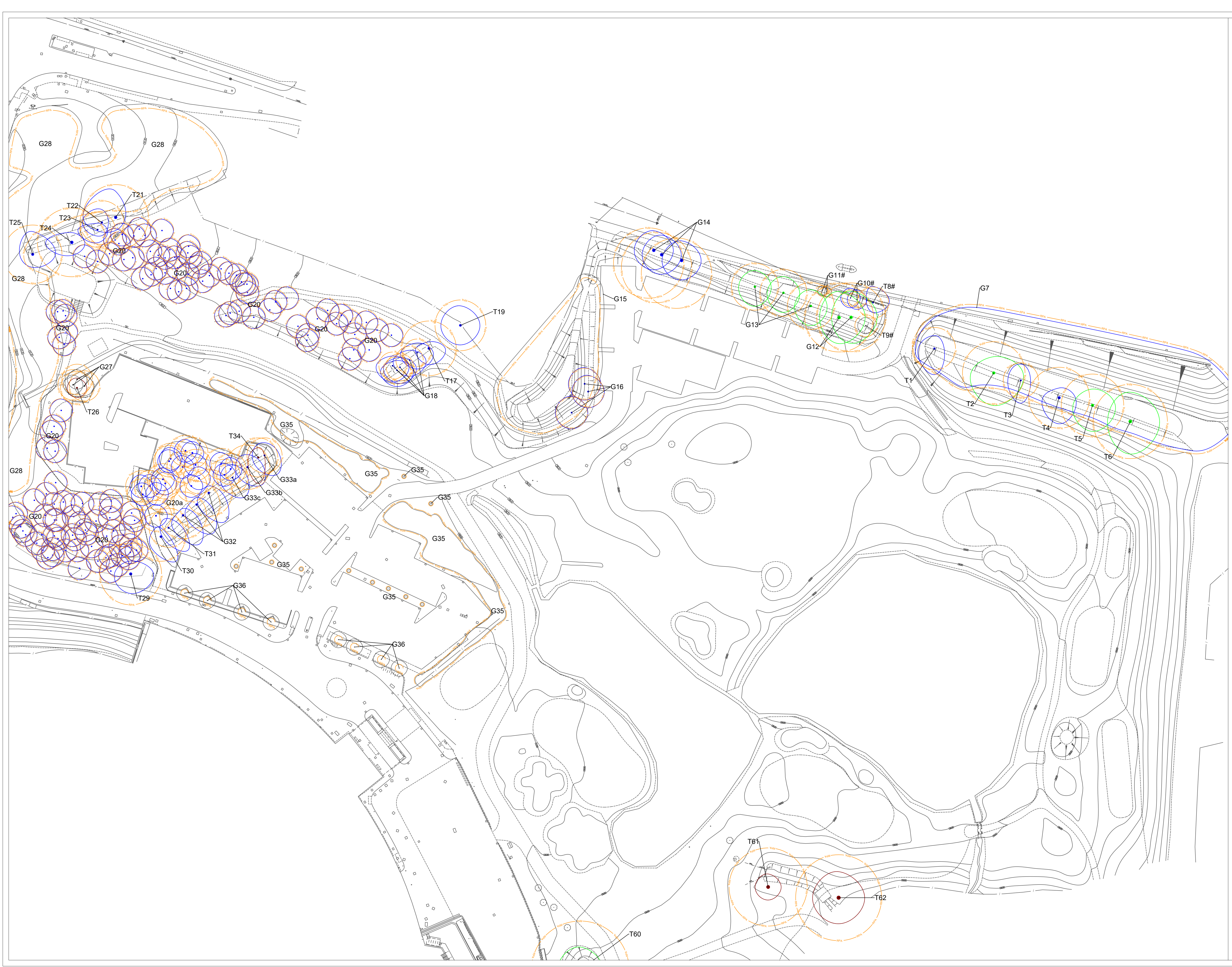
Site Address:  
The Ageas Bowl  
Botley Rd, West End, Southampton  
SO30 3XH

Drawing Title:  
BS5837 Plan

Drawing No:  
MTM0171.TCP.01

Date: 26/02/2022 Scale: 1:2000@A1 Drawn by: ML

Note: Dimensions are not to be scaled from this drawing.  
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-  Category A Trees
-  Category B Trees
-  Category C Trees
-  Category U Trees
-  Root protection area
-  Estimated Position

Mulberry TMC  
Adamson House  
Towers Business Park  
Wilmslow Road  
Didsbury  
M20 2YY

Tel: 0161 955 3628  
Email: [info@mulberrytmc.co.uk](mailto:info@mulberrytmc.co.uk)



Site Address:  
The Ageas Bowl  
Botley Rd, West End, Southampton  
SO30 3XH

Drawing Title:  
BS5837 Plan

Drawing No:  
MTM0171.TCP.01. a

Date: 26/02/2022 Scale: 1:500@A1 Drawn by: ML

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-  Category A Trees
-  Category B Trees
-  Category C Trees
-  Category U Trees
-  Root protection area
-  Estimated Position

Mulberry TMC  
Adamson House  
Towers Business Park  
Wilmslow Road  
Didsbury  
M20 2YY

Tel: 0161 955 3628  
Email: info@mulberrytmc.co.uk



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Site Address:  
The Ageas Bowl  
Botley Rd, West End, Southampton  
SO30 3XH

Drawing Title:  
BS5837 Plan

Drawing No:  
MTM0171.TCP.01. b

Date: 26/02/2022 Scale: 1:500@A1 Drawn by: ML

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-  Category A Trees
-  Category B Trees
-  Category C Trees
-  Category U Trees
-  Root protection area
-  Estimated Position

Mulberry TMC  
Adamson House  
Towers Business Park  
Wilmslow Road  
Didsbury  
M20 2YY

  
mulberry

Tel: 0161 955 3628  
Email: info@mulberrytmc.co.uk

Site Address:  
The Ageas Bowl  
Botley Rd, West End, Southampton  
SO30 3XH

Drawing Title:  
BS5837 Plan

Drawing No:  
MTM0171.TCP.01. c

Date:  
26/02/2022

Scale:  
1:500@A1

Drawn by:  
ML

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-  Category A Trees
-  Category B Trees
-  Category C Trees
-  Category U Trees
-  Root protection area
-  Estimated Position

Mulberry TMC  
Adamson House  
Towers Business Park  
Wilmslow Road  
Didsbury  
M20 2YY

Tel: 0161 955 3628  
Email: info@mulberrytmc.co.uk



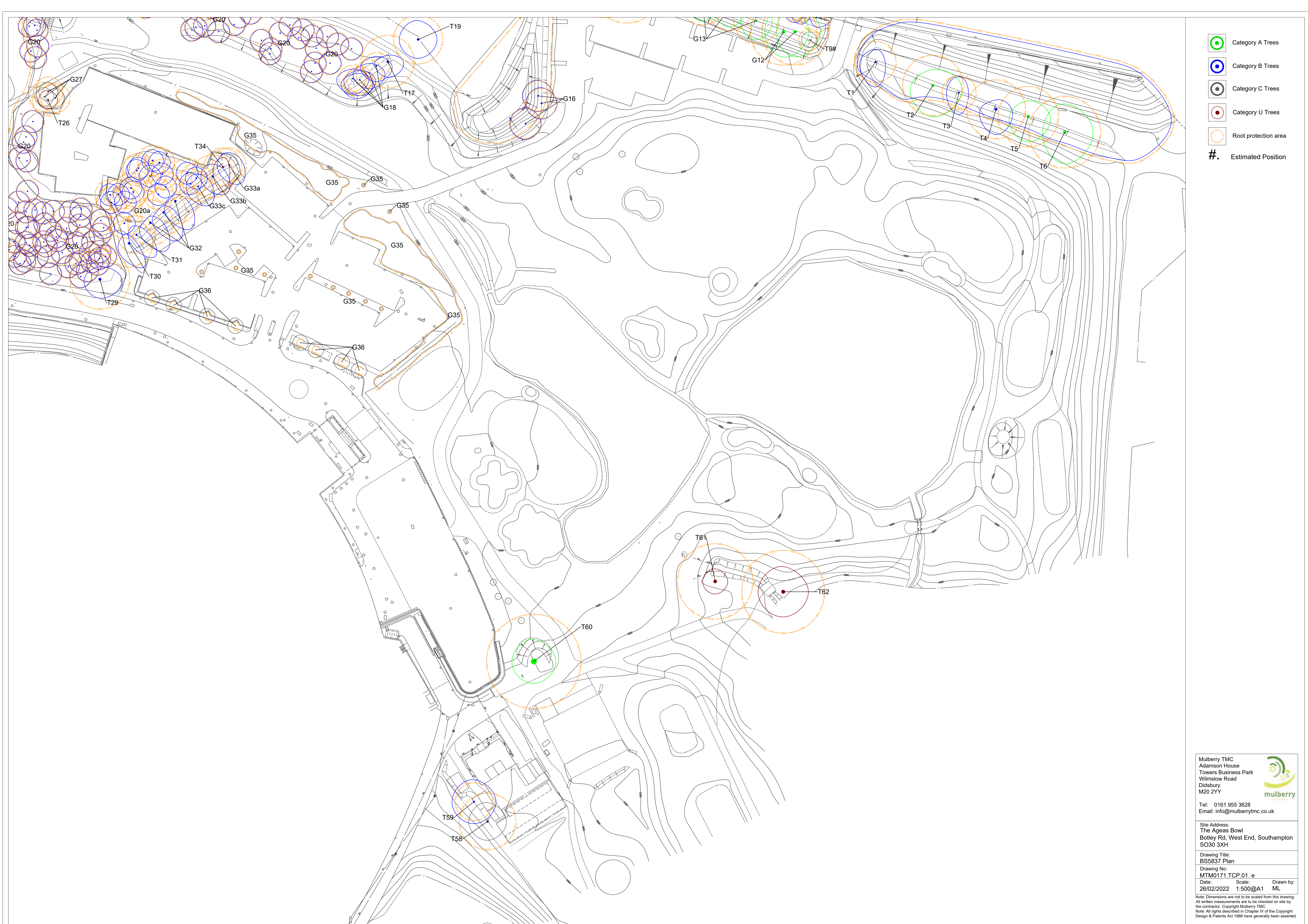
Site Address:  
The Ageas Bowl  
Botley Rd, West End, Southampton  
SO30 3XH

Drawing Title:  
BS5837 Plan

Drawing No:  
MTM0171.TCP.01. d

Date: 26/02/2022 Scale: 1:500@A1 Drawn by: ML

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-  Category A Trees
-  Category B Trees
-  Category C Trees
-  Category U Trees
-  Root protection area
-  Estimated Position

Mulberry TMC  
Adamson House  
Towers Business Park  
Wilmslow Road  
Didsbury  
M20 2YY

Tel: 0161 955 3628  
Email: info@mulberrytmc.co.uk



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Site Address:  
The Ageas Bowl  
Botley Rd, West End, Southampton  
SO30 3XH

Drawing Title:  
BS5837 Plan

Drawing No:  
MTM0171.TCP.01. e

Date: 26/02/2022 Scale: 1:500@A1 Drawn by: ML

Note: Dimensions are not to be scaled from this drawing.  
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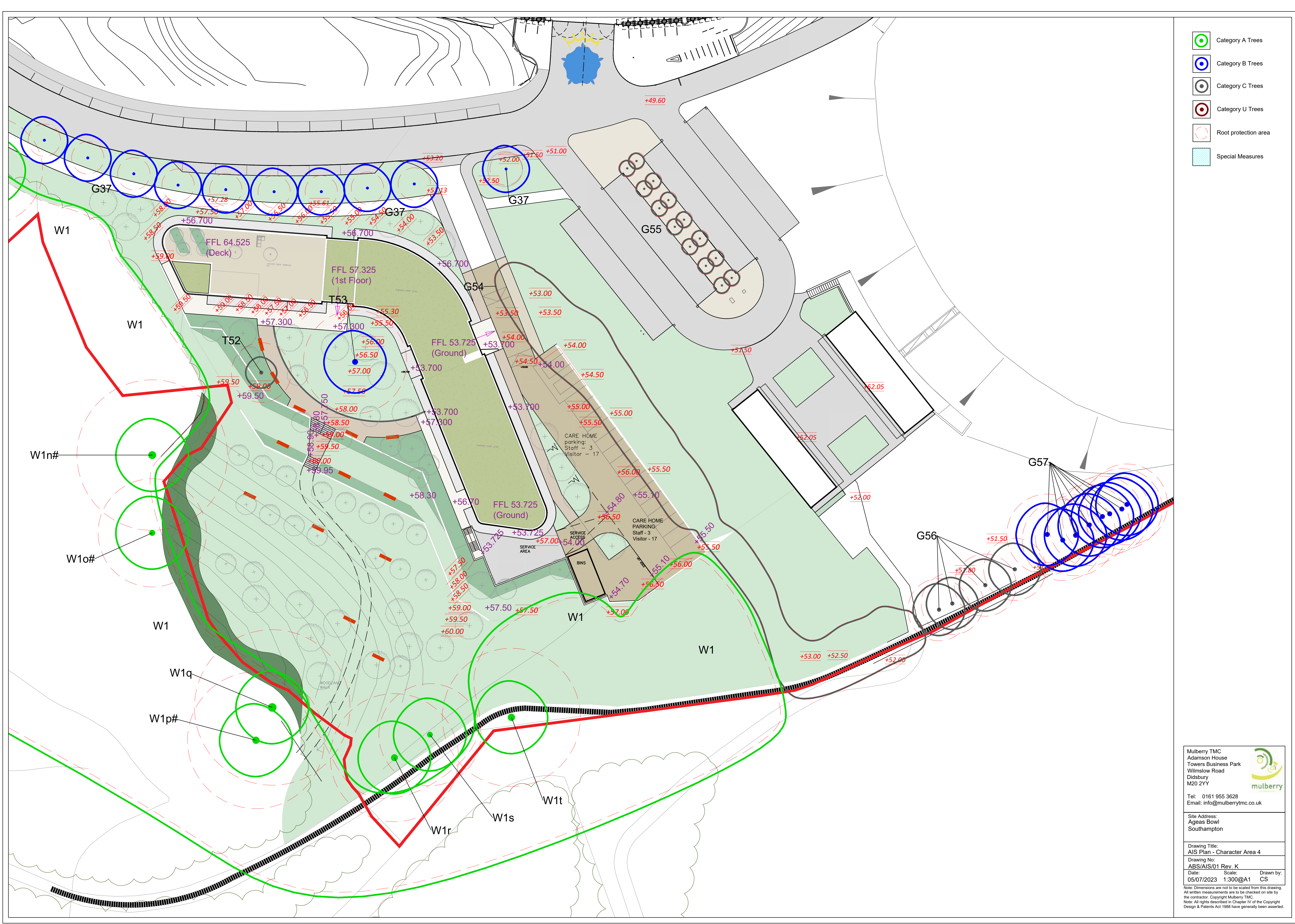


Site Address:  
Ageas Bowl  
Southampton

|                                  |                    |                 |
|----------------------------------|--------------------|-----------------|
| Drawing No:<br>ABS/AIS/01 Rev. K |                    |                 |
| Date:<br>05/07/2023              | Scale:<br>1:600@A1 | Drawn by:<br>CS |

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- Category A Trees
- Category B Trees
- Category C Trees
- Category U Trees
- Root protection area
- Special Measures

Mulberry TMC  
 Adamson House  
 Towers Business Park  
 Wilmslow Road  
 Didsbury  
 M20 2YY

Tel: 0161 955 3628  
 Email: info@mulberrytmc.co.uk

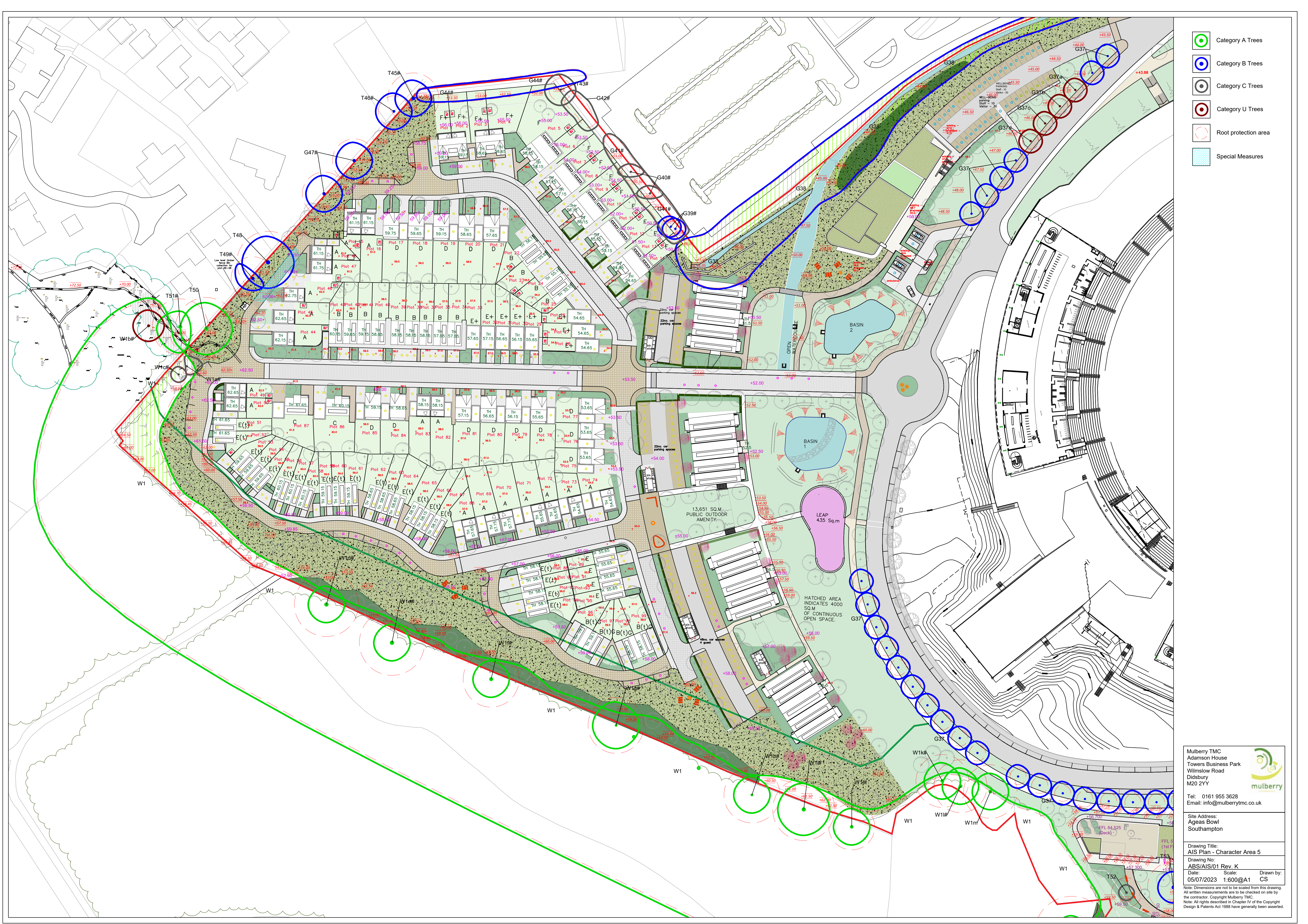
Site Address:  
 Ageas Bowl  
 Southampton

Drawing Title:  
 AIS Plan - Character Area 4

Drawing No:  
 ABS/AIS/01 Rev. K

Date: 05/07/2023 Scale: 1:300@A1 Drawn by: CS

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- Category A Trees
- Category B Trees
- Category C Trees
- Category U Trees
- Root protection area
- Special Measures

Mulberry TMC  
Adamson House  
Towers Business Park  
Wilmslow Road  
Didsbury  
M20 2YY

Tel: 0161 955 3628  
Email: info@mulberrytmc.co.uk

Site Address:  
Ageas Bowl  
Southampton

Drawing Title:  
AIS Plan - Character Area 5

Drawing No:  
ABS/AIS/01 Rev. K

Date:  
05/07/2023

Scale:  
1:600@A1

Drawn by:  
CS

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## **Appendix Four**

### **Construction of Special Surface**

## METHODOLOGY FOR THE CONSTRUCTION OF HARD STANDING

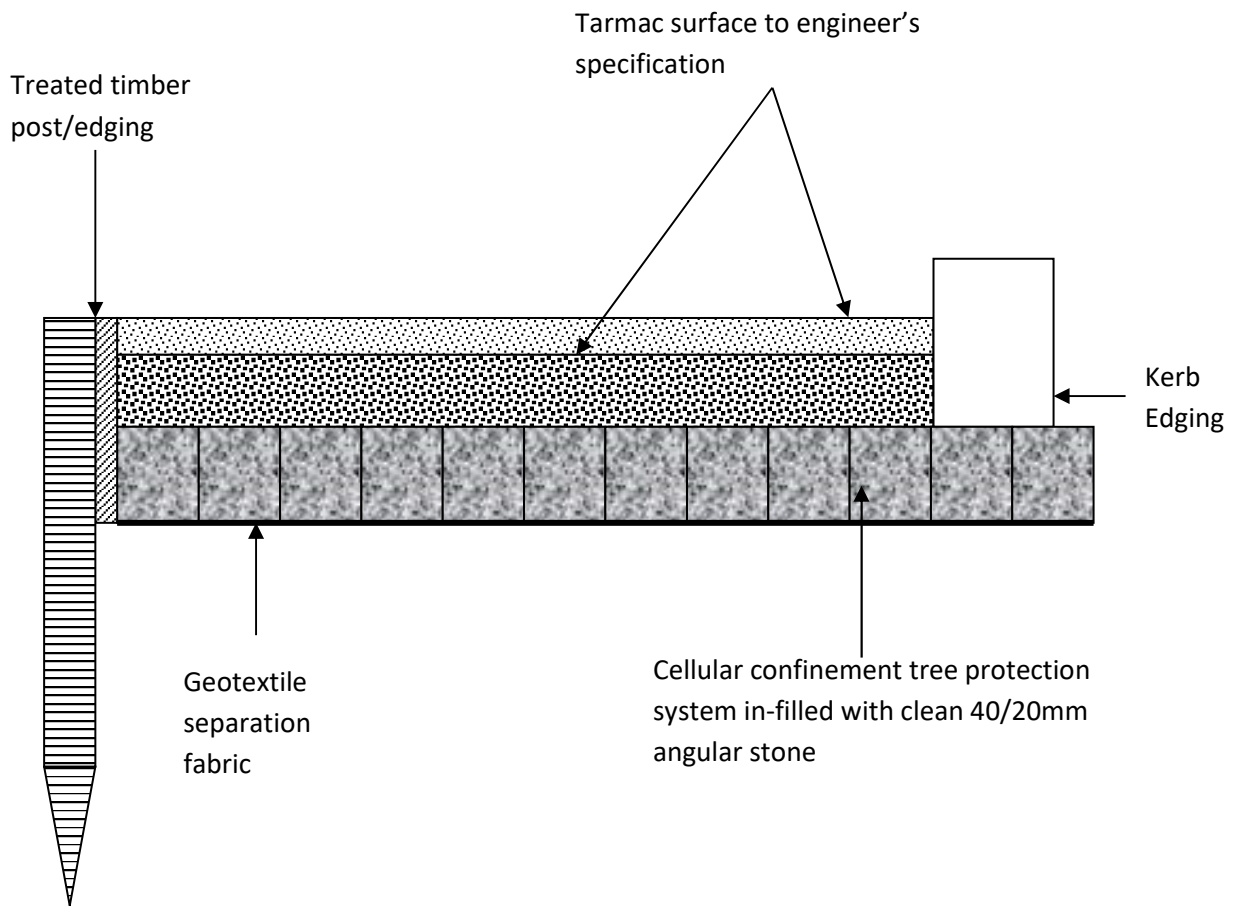
The following methodology supports the drawing indicating the construction of the proposed hard standing. The methodology is prepared on the basis of the sequence of operations necessary to complete the construction of the driveway with the minimum damage to the trees proposed for retention.

- Surface layer to be scraped off. This can be done either by hand or by very small machinery.
- Erect protective fencing to the edge of the construction area.
- Spread a sub grade material over the length of the driveway to fill any small ruts.
- Construct edging using treated timber if required.
- Lay geotextile mat over smoothed area.
- Extend the Geoweb perforated tree root protection system over the area of the driveway with sufficient overlap such that kerbs can be constructed on top of the Geoweb.
- Fill the voids within the Geoweb with reduced fines Type 1 material working into the site over the top of the Geoweb.
- Lay kerbs and surface over the Geoweb such that the construction binds itself together.
- Construct finished surface as required in line with guidance illustrations below.

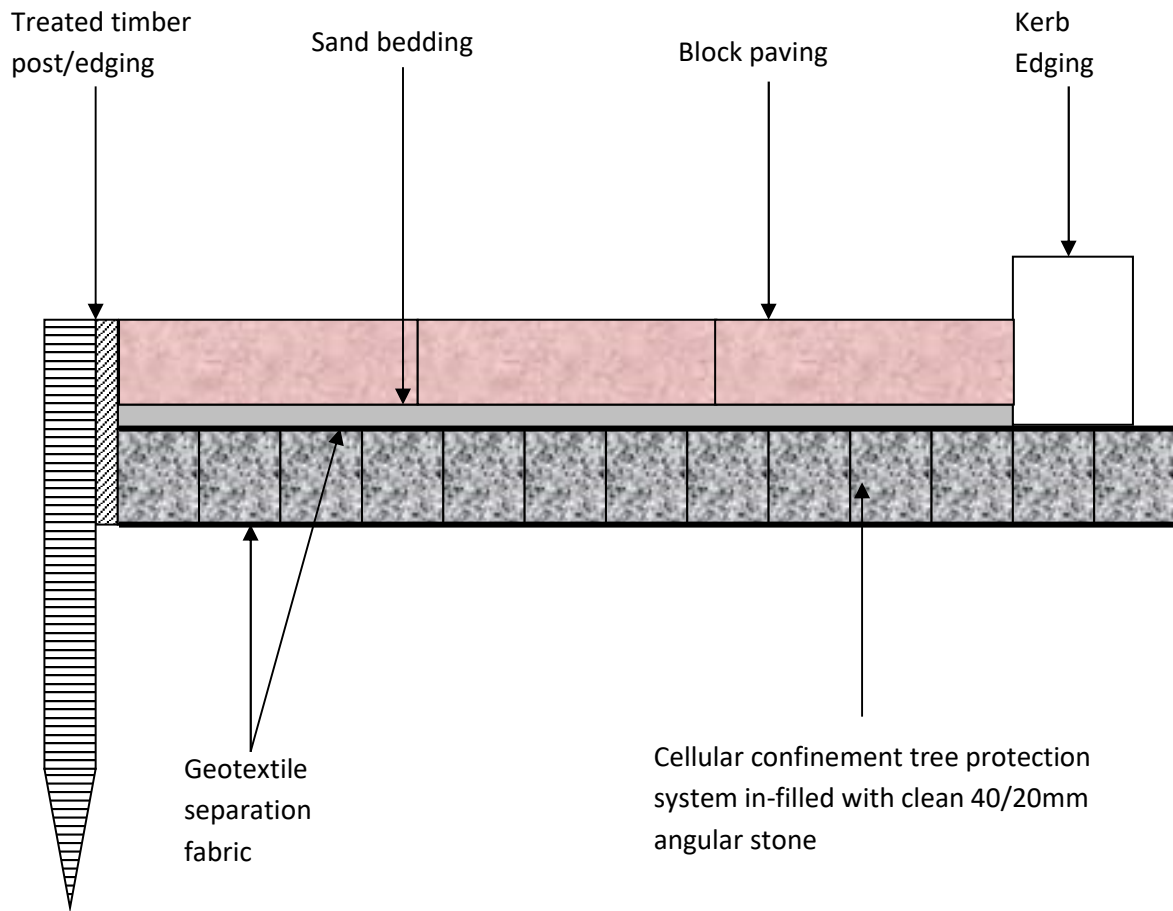
## GEOWEB BASED CONSTRUCTION – (INDICATIVE ONLY)

Depth of confinement system variable according to use- refer to manufacturer

### Tarmac Surface



## Block Paved Surface



## Gravel Surface

