



Tree Surveys

BS5837 – Pre Planning – Mortgage – Risk Management & Prediction

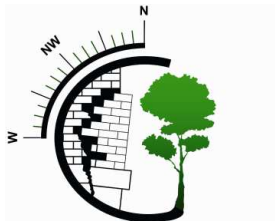
BS 5837:2012 TREE SURVEY AND ARBORICULTURAL METHOD STATEMENT FOR 58 KINGS ROAD, READING



**Prepared on behalf of:
Mr C Hornby
58 Kings Road
Reading
RG1 3AA**

Ref: PB/5837-21/12.10/Rev B

7 June 2022



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CONTENTS

- Summary**
- 1. Introduction**
- 2. Scope**
- 3. Site visit and the collection of data**
- 4. Constraints**
- 5. Tree protective measures**
- 6. Survey key**
- 7 to 12. Arboricultural method statement**
- 13. Queries**

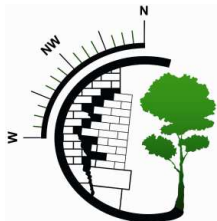
APPENDICES

- 1. Tree survey schedule**
- 2. Tree location drawing**
- 3. Root protection drawing**
- 4. Shade constraints drawing**
- 5. Mitigation drawing**
- 6. Figure 2, section 6, BS 5837:2012 (by permission)**
- 7. Tree protection fence sign**
- 8. Site monitoring form**
- 9. Permission from the neighbouring landowner giving authority to install the TPB and the temporary ground protection**

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BS5837 – Pre Planning – Mortgage – Risk Management & Prediction

Summary

We inspected all of the trees that could be affected by the proposed development at 58 Kings Road, Reading, RG1 3AA. The tree details are contained in the tree survey schedule included at Appendix 1.

A total of eight individual trees were assessed in accordance with the cascade chart for tree quality (Table 1: Section 4) of British Standard (BS) 5837:2012. They are categorised as follows.

- Three trees are in Category 'A' "Trees of high quality",
- Two trees are in Category 'B' - "Trees of moderate quality",
- Three trees are in Category 'C' "Trees of Low quality".

Mitigation may be required to demonstrate how the retained trees' root protection areas (RPAs) will be protected during any development, including access to the proposed development area. The RPAs are shown on the drawing included at Appendix 3.

1. Introduction

1.1 Instructions

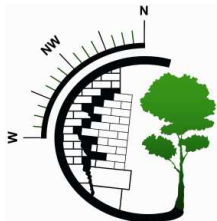
1.1.1 We are instructed by Mr C Hornby to visit the proposed development at 58 Kings Road, Reading, RG1 3AA and survey the trees implicated in a planning application and prepare an arboricultural method statement in accordance with 'BS 5837:2012' a guide for '*Trees In Relation To Design, Demolition and Construction - Recommendations*' (Section 4). The enclosed method statement is provided in support of this proposed development.

1.1.2 The trees were surveyed in accordance with 'British Standard (BS) 5837:2012' a guide for '*Trees In Relation To Design, Demolition and Construction - Recommendations*' (Section 4).

1.2 Validation

1.2.1 This report fulfils the recommended national listed criteria for tree survey information as set out in BS 5837:2012 and includes the following:

- A tree survey, undertaken by a qualified arboriculturist, and tree schedule, included at Appendix 1.
- A drawing at 1:200 scale with a north point, indicating the existing tree locations and colour coded by Category grading, ref PB/5837-21/12.10 included as Appendix 2.
- The root protection areas drawn to scale on drawing, ref PB/RPA-21/12.10 included at Appendix 3.
- A shade constraints drawing, ref PB/SC-21/12.10 included at Appendix 4.
- A mitigation drawing showing tree protection measures including ground protection and tree protection barrier, ref PB/MIT-21/12.10/REV.A included at Appendix 5.
- Default tree protection fencing from BS 5837:2012 and tree protection barrier sign included at Appendices 6 and 7.



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BS5837 – Pre Planning – Mortgage – Risk Management & Prediction

2. Scope of this report

- 2.1 The purpose of this report is to quantify the trees most likely to be impacted upon by the development proposal and highlight how potential damage to them may be avoided.
- 2.2 The tree survey provides the basic data on the trees implicated in a forthcoming planning application. It does not set out to put arguments for or against the development. It does set out how to decide upon the retention of the trees, means of protecting the retained trees during development and on means of incorporating the trees into the developed landscape, along with appropriate management and protective measures.
- 2.3 The primary purpose of this report is for the client and council to review the information provided and use it for the purpose of considering a planning application or engaging in further discussions towards the same end. The information is provided on the basis that it will be available to people other than arboriculturists i.e. those without specialist knowledge of the subject.

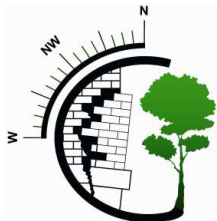
3. Site visit and the collection of data

3.1 Site visit

- 3.1.1 The trees were surveyed by Paul Billin BSc MICFor on 10 December 2021. The trees were inspected from ground level and without any form of detailed investigations; binoculars were used to aid the inspection process. The measurements we undertook on site were made with the aid of a rounded down diameter tape and TruPulse™ laser hypsometer. The trees were not tagged as they are easily identified on site and with reference to the attached tree location plan. The weather at the time of the inspections was dry and clear.

3.2 The trees

- 3.2.1 We surveyed eight trees with stem diameters of 75 millimetres and above. The tree details have been entered into a survey schedule included at Appendix 1.
- 3.2.2 For ease of identification the trees are shown on the tree location drawing ref PB/5837-21/12.10 and have been allocated numbers. These numbers are cross-referenced within the BS 5837:2012 survey schedule.
- 3.2.3 In making the assessment, consideration has been given to:
 - The health, vigour and condition of the trees.
 - Any structural defects and safe life expectancy.
 - The size and form of the trees.
 - The rare, unusual or component part of a formal feature.
 - Groups or individual trees that provide definite screening or softening effect.
 - Trees forming distinct landscape features.



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BS5837 – Pre Planning – Mortgage – Risk Management & Prediction

4. Constraints

4.1 Ecological constraints

- 4.1.1 The Conservation of Habitats and Species Regulations 2017 (as amended), and The Wildlife and Countryside Act 1981 as amended by the Countryside and Rights of Way Act 2000, provides statutory protection to birds, bats, and other tree dwelling species. They could impose significant constraints on the use and timing of any tree matters considered in this report.

4.2 Root protection areas (RPAs)

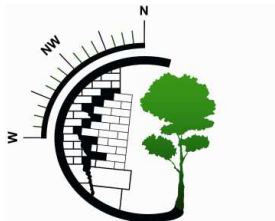
- 4.2.1 Using BS 5837:2012 the RPAs have been calculated for the trees by reference to section 4.6.1 (a) and/or (b). The RPA is frequently described as a circle with a radius of prescribed distance within which no unspecified activity should occur and a high level of care is needed during any activities that are authorised within them, if they are to be successfully retained.
- 4.2.2 Specified intrusions into the RPAs can take place only where the ground is adequately protected in accordance with the requirements of section 6 (6.2.3.3) of the BS or as may be agreed with the Local Planning Authority (LPA). The RPAs have been plotted as dodecagons or polygons taking account of the site constraints on drawing PB/RPA-21/12.10.
- 4.2.3 The shape and position of the RPA may only be modified by an arboriculturist to meet the pre-existing site conditions or other factors that indicate that rooting has occurred asymmetrically. In all cases, we have considered the adjacent constraints including such things as the existing site access, paths, hard impermeable car park surfaces, buildings, walls and site topography and slopes.

4.3 Shade constraints

- 4.3.1 Large trees that cast dense shade may result in pressure to prune or remove them. Whilst either shade or sunlight might be desirable depending on the potential use; the design should avoid unreasonable obstruction of light. The shade constraints posed by the trees are plotted onto drawing ref PB/SC-21/12.10. The adjacent tree (T) T4 is currently pruned on a regular, two-to-three-year cycle by the neighbour to keep the canopy clear of their building.

5. Tree protective measures

- 5.1 To protect retained trees from construction activities the retained trees must be protected by suitable protection barriers and ground protection. The accompanying root protection area drawing shows the RPAs and specific tree protection locations required prior to and during the construction activities.
- 5.2 The tree protection barrier is designed to provide construction exclusion zones around the RPAs of all trees to be retained.
- 5.3 The tree protection fencing should be fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees. The default specification for protective barriers is that specified in BS 5837:2012 Figure 2, section 6. A copy of Figure 2 is reproduced at Appendix 6. All weather signs must be attached by cable ties to each Heras panel as set out in Appendix 6.

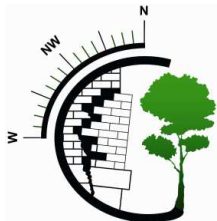


Tree Surveys

BS5837 – Pre Planning – Mortgage – Risk Management & Prediction

6. Tree survey key

No:	Tree number on survey drawing
Species:	Common/English and or Latin name
Height:	Height in metres above ground level
Number of stems:	Single stem, or number of stems if more than one
Canopy spread:	In metres taken at the four cardinal points (N.E.S.W.)
Diameter:	In millimetres measured in accordance with BS 5837 2012
Height & direction of 1st branch:	In metres and by cardinal compass points. This can be found on the detailed tree assessment
Age class:	Young Semi-mature Early-mature Mature Over-mature
Root protection area:	In square metres and the nominal radius of a circle required to achieve this in metres
Health - Physiological Condition (Phy Con):	Good Fair Poor Decline Dead
Structural Condition: Crown, Stem, Basal Area:	Good Fair Poor Ivy
Survey Comment:	i.e. Further investigation, aerial inspection, decay detection, wildlife study
Estimated Remaining Contribution (ERC) in years:	i.e. less than 10, 10 to 20, 20 to 40, 40+
Category Grading:	Code U Trees unsuitable for retention RED Code A High quality category GREEN Code B Moderate category BLUE Code C Low category GREY



Tree Surveys

BS5837 – Pre Planning – Mortgage – Risk Management & Prediction

ARBORICULTURAL METHOD STATEMENT (AMS)

7. General

7.1 The key protection issues associated with this scheme in relation to existing trees, in the short, medium and long term, are the need for:

- Specification, supervision and auditing of tree works.
- The protection of trees to be retained from physical damage to their above and below ground structures.
- The protection of tree habitat.
- The protection of the soil structure and prevention of damage to tree root systems by chemicals and other noxious substances/materials.
- Monitoring, supervisions and liaison.

7.2 Statutory Designation

On the 14 December 2021 a search of Reading Borough Council's TPO Directory (last updated 2 December 2021) showed that trees adjacent to the application area are protected by a Tree Preservation Order (TPO), TPO No. 1/93 CRANE WHARF Towpath r/o 52 Kings Road (Oyster Wharf). The development area is not within a Conservation Area.

8. Introduction

8.1 Terms of reference:

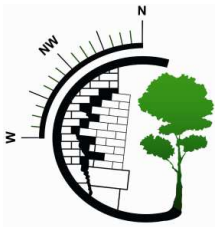
The BS 5837:2012 tree survey reference data was to be reviewed in order to integrate the proposed development options and safeguard the long-term preservation of the retained trees. This AMS provides guidance on the typical range of processes that are involved during development and seeks to ensure that appropriate methods of implementation are carried out. It further aims to provide a holistic view of the development process and seeks to address any potential issues and conflicts that may arise and provide solutions to these, resolving them in line with current arboricultural and industry best practice guidance.

8.2 The AMS sets out the management and protection details in support of the planning proposal and they must be implemented to secure successful tree retention. This is based upon the assumption that the minimum general standards for development are those set out in BS 5837:2012 and, in the absence of industry specific guidance on the installation of underground services, all new services required for the project must conform to the minimum standards required as set out in the National Joint Utilities Group (NJUG) 2007 Volume 4, Issue 1: *Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees*.

8.3 We were provided with drawings from Creative Design, & Structure, Unit 1, Henson House, Newtown Road, Henley-on-Thames, RG9 1HG of the proposed development:

- '3D Images', Dwg No. 09521-13 Rev. A,
- 'Block and Location Plans', Dwg No. 09521-09.

8.4 These drawings have been used as the basis for the mitigation plan, ref PB/MIT-21/12.10/REV.A, included at Appendix 5. We have used our extensive experience to interpret these references in the context of evolving good practice and dealing with site specific issues relating to the proposed development at 58 Kings Road.



Tree Surveys

BS5837 – Pre Planning – Mortgage – Risk Management & Prediction

8.5 The RPA drawing PB/RPA-21/12.10 is illustrative and can only be used for dealing with the tree issues and all scaled measurements must be checked against the original site drawings. The precise location of all protective measures must be confirmed before any construction activity starts.

8.6 Precautions when working in the RPA:

The following prohibitions apply within any tree RPA:

- No linear mechanical excavation whatsoever without prior written agreement from the LPA and Arboricultural Consultant (AC).
- No excavation by any other means without arboricultural site monitoring
- No hand digging without a written method statement from the main contractor having first been approved in writing by the AC.
- No altering of levels unless agreed in writing with the LPA and AC, except for the removal of grass sward using hand tools in accordance with BS 5837:2012 (section 7.4.2.1).
- No construction of a sealed hard surface.
- No storage of plant or materials.
- No mixing of cement/concrete.
- No storage or handling of any chemical including cement washings, unless site specific mitigation is approved by the AC and LPA.
- No vehicular access without prior written agreement from the LPA.
- No fire lighting within 20 metres of any retained tree.

8.7 In addition to the measures in 8.5, further precautions are necessary adjacent to the RPA of retained trees as detailed in section 10 below.

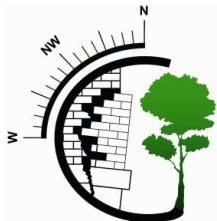
8.8 Furthermore a 10 metre separation distance, or the RPA radius if it is greater, shall normally be observed between any tree during the cement mixing phases including storage and other substances injurious to tree health, this should include such things as fuels, oil, bitumen, cement (including cement washings), builders' sand, concrete mixing and other chemicals.

8.9 Avoiding damage to stems and branches:

Care shall be taken when planning site operations in proximity to trees to ensure that contact with the retained trees and overhanging branches is avoided; this includes when manoeuvring materials with cranes, rigs or booms. Such contact can result in serious injury to the tree and might make the safe retention impossible. Consequently, any tree protection in proximity to the trees shall be constructed under the supervision of the AC, to ensure that adequate clearance from the trees is at all times maintained.

8.10 Access pruning:

Access pruning is not anticipated for any tree. Any subsequent changes that identify trees that require pruning may only be conducted following consent and must be undertaken in accordance with BS 3998:2010 and current arboricultural practices. At no time must trees be pruned by the construction contractors. All tree pruning must be undertaken by suitably qualified and insured arboricultural contractors under the guidance of the AC.



Tree Surveys

BS5837 – Pre Planning – Mortgage – Risk Management & Prediction

9. Tree protection general

9.1 Default fencing (BS 5837:2012)

The proposed scheme involves construction activities in close proximity to retained trees. It is considered that the minimum default type fencing must be using the default temporary protective barrier as specified and detailed in BS5837:2012 Section 6.2, Fig 2, shown at Appendix 6, but typically using Heras panels supported on rubber blocks secured to the ground with road pins, and remain in situ for the duration of the scheme. Any alternative specification to the default above must only be used following approval by the AC. The location for this type of fencing is shown as a line on the mitigation drawing ref PB/MIT-21/12.10/REV.A. All weather signs must be attached by cable ties to each Heras panel as set out in Appendix 7. If construction work is adjacent to or within an RPA the default tree protection fencing may be inappropriate or unsuitable and therefore any alternative specification to the default above must only be used following a written contingency plan submitted to and approved by the AC and LPA. It should identify the reasons why the default cannot be used, the location and duration required for the substitute fence, and it must be erected under the supervision of the AC. The AC must be given reasonable time to provide advice.

Specific tree protection measures have been considered at conflict points and mitigating measures are set out within this document.

9.2 Ground protection measures:

Ground protection is required to protect at least a functional minimum mass of undisturbed ground during the construction process and is required to limit compaction or contamination of the RPA. The specific ground protection measures must be installed and maintained during construction work; this should include a scheme of arboricultural site monitoring with the AC if deemed necessary. The proposed works on this site have been assessed and on the basis of the drawings supplied site specific measures are set out in Section 10 below.

10. Site specific precautions and mitigation

10.1 Tree loss:

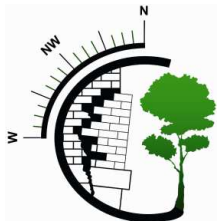
We do not anticipate that the proposed layout of the site development works will require the necessary removal of any tree to allow full implementation of the final approved planning permission.

10.2 Tree Pruning.

There are no requirements for access or facilitation pruning, or any other necessary pruning works, to the trees, as a result of the proposed site development works. There is sufficient canopy clearance from the existing off-site trees, T1-T6, to allow access to the construction of the new building.

Mitigation:

- Were the position to change, tree pruning must be undertaken in accordance with BS 3998:2010 and current arboricultural practices. At no time must the trees be pruned by the construction contractors.



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BS5837 – Pre Planning – Mortgage – Risk Management & Prediction

10.2 continued . . .

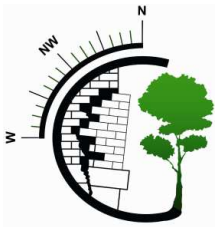
- The location of the new building is unlikely to increase the pressure for additional crown reduction of the trees in the future, particularly of the adjacent tree T4 which is protected by the TPO Number 1/93. The regular, two to three year pruning cycle of the three willows, T4 to T6, is expected to continue. The three willow trees were last pruned in Autumn 2020, and April 2018 before that, under an approved Tree Works Notification, with the application made by the tree surgery company R Watts & Sons Ltd on behalf of the neighbouring landowner.
- Should future pruning works need to be made to T4 by the owners of 58 Kings Road a Tree Works Application must be made to Reading Borough Council, through the Planning Portal Website, and approval must be given before any tree works are carried out. The permission of the landowner, John Palmer, 52-54 Kings Rd, Reading, RG1 3AA must be sought for the tree work as it would be beyond the boundary line.

10.3 Site set up and access.

The RPAs of retained trees T1 to T6 are adjacent to the proposed construction site, access to which would be vehicles reversing down the access road. All trees that are being retained on site should be protected by barriers and/or ground protection before any materials or machinery are brought onto the site, and before any demolition, development or construction work commences. The protection barriers should be erected to create a construction exclusion zone. In this case construction activity cannot be fully or permanently excluded in this manner from all or part of a tree's RPA, and appropriate ground protection should be installed.

Mitigation:

- The tree protection measures for T4 to T6 are to be implemented outside the 58 Kings Road development site, on neighbouring land over which there is agreed access, and permission has been obtained from this landowner, First Church of Christ Scientist, 52-54 Kings Rd, RG1 3AA in writing giving authority to install the TPB and the temporary ground protection on this land and for these to remain in situ for the duration of the works; see letter attached as Appendix 9.
- To ensure the RPA of the retained trees remains undamaged, and to prevent contamination and compaction during access, demolition, the erection of scaffolding, and construction work **the TPB must be installed prior to any site activity** as shown on drawing PB/MIT-21/12.10/REV.A using the default temporary protective barrier as specified and detailed in BS5837:2012 Section 6.2, Fig 2, as included at Appendix 6, but typically using Heras panels supported on rubber blocks secured to the ground with road pins, and remain in situ for the duration of the scheme. Any alternative specification to the default above must only be used following approval by the AC.
- Temporary ground protection is required for site access over the RPA of retained trees until the completion of construction works. This must be suitable for the maximum weight of vehicles, demolition and construction machinery required for the site.
- Examples to be used include DuraDeck® ground protection mats or MegaDeck®HD mats, or similar moulded high density polyethylene (HDPE) composite mats, laid on a 150mm deep layer of woodchip or sharp sand to minimise compaction and prevent damage to surface roots from this



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10.3 Continued . . .

additional, extraordinary vehicular access. This must be installed prior to any site or construction activity as shown on drawing PB/MIT-21/12.10/REV.A.

- This temporary ground protection **must remain in situ for the duration of the works.**

10.4 The potential RPA incursion on retained trees during excavation of the existing boundary wall and car park surface and removal of material will have little impact on the trees providing the mitigation set out below is followed.

Mitigation:

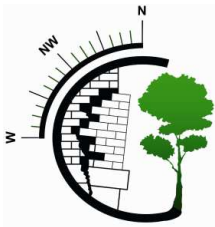
- In order to ensure the RPA of the retained trees remains undamaged, and to prevent contamination and compaction during the demolition works, the RPAs must be protected. The tree protection barrier must be installed as shown on drawing PB/MIT-21/12.10/REV.A using the default temporary protective barrier as specified and detailed in BS5837:2012 Section 6.2, Fig 2, as included at Appendix 6, and remain in situ until all works activity is completed.
- Temporary ground protection must be installed prior to any site, excavation or construction activity as shown on drawing PB/MIT-21/12.10/REV.A and detailed in section 10.3 above.
- If the excavation is to be carried out using a mechanical excavator, it should be with the excavator positioned outside the RPA of any retained tree, using a toothless bucket, working in a direction away from the edge of the RPA.
- To avoid root desiccation, any roots over 25 millimetres and clumps of fibrous roots below 25 millimetres encountered during this removal process must immediately be covered with topsoil taken from outside RPAs of retained trees or new topsoil imported on to site.

10.5 Excavations and foundation construction.

There are no RPA incursions anticipated by the excavation of foundations for the new building into the RPAs of the adjacent, retained trees, and standard construction methods can therefore be adopted. However, in order to fully protect roots in the RPAs the tree protection barrier and temporary ground protection mitigation must be installed as detailed in section 10.3. The following generic mitigation must apply within, and adjacent to, the RPA of retained trees.

Mitigation:

- Should roots less than 25 millimetres in diameter be encountered during works they must be cut cleanly with a suitable sharp tool (e.g. bypass secateurs or handsaw) and covered with damp hessian to prevent them from drying out. If freezing conditions are anticipated several layers of hessian or similar material should be used to prevent roots freezing.
- Roots occurring in clumps or of 25 millimetres diameter and over should be severed only following consultation with the AC as such roots might be essential to the tree's health and stability. Ideally, they must be retained undamaged.
- All excavations adjacent to the RPA of retained trees that are to be filled with concrete must be lined with impermeable 1000-gauge polythene sheeting before filling with concrete to avoid root damage caused by leachate.



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BS5837 – Pre Planning – Mortgage – Risk Management & Prediction

- 10.6 Spoil movements, storage of materials, skips, parking and welfare facilities. These will be sited in a site compound located in the existing car park area between the proposed extension and the site boundary wall. The following generic mitigation applies:

Mitigation:

- Spoil and building materials must not be stored within the RPA of retained trees.
- Skips, parking and welfare facilities must be sited beyond the RPAs of retained trees.
- The tree protection barrier must be installed prior to any construction activity and in the locations as shown on drawing PB/MIT-21/12.10/REV.A and remain in situ until all construction activity is completed.

- 10.7 Full details of excavation and installation of services to the new extension, rainwater soakaways and foul drainage, or outside lighting were not available at the time this method statement was prepared. The following generic mitigation must apply within, and adjacent to, the RPA of retained trees.

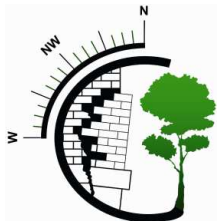
Mitigation:

- The proposed services, rainwater soakaways and foul drainage details must be submitted to and approved in writing by the AC prior to any works starting on site.
- The tree protection barrier must be installed prior to any construction activity and in the location as shown on drawing PB/MIT-21/12.10/REV.A, and remain in situ until all construction activity is completed. All excavations within the RPA of any retained trees affected by below ground works must be undertaken by hand or an approved trenchless technique.
- If roots less than 25 millimetres in diameter are encountered during excavation they must be cut cleanly with a sharp hand saw and covered with damp hessian to prevent them from drying out. Roots greater than 25 millimetres in diameter must remain in place and the AC contacted.
- In the absence of industry specific guidance on the installation of underground services, all new services required for the project must conform to the minimum standards required and will be those as set out in the National Joint Utilities Group (NJUG) 2007 Volume 4, Issue 1: *Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees*.
- Soakaways and septic tanks must be sited outside of any retained tree RPA.

- 10.8 Landscaping, including patio, walls and footways. We have not received any detailed landscaping construction plans at this stage although these plans are unlikely to affect any of the off-site retained tree RPAs. The following generic mitigation must apply within, and adjacent to, the RPA of retained trees.

Mitigation:

- The tree protection barriers must be installed prior to any site activity as shown on drawing PB/MIT-21/12.10/REV.A using the default temporary protective barrier as specified and detailed in BS5837:2012 Section 6.2, Fig 2, as included at Appendix 6 and remain in situ for the duration of the scheme; this will also include any landscape operations unless this is otherwise agreed with the AC.



Tree Surveys

BS5837 – Pre Planning – Mortgage – Risk Management & Prediction

10.8 continued . . .

- Any surface vegetation requiring removal within the RPAs must be agreed with the AC, furthermore it must only be removed by hand tools in accordance with BS 5837:2012, 7.4.2.1. Under no circumstances must mini excavators or similar machinery be used to remove the surface vegetation in RPAs, this includes landscaping operations.
- All excavations within RPA must be undertaken by hand and lined with impermeable 1000 gauge polythene sheeting before filling with concrete to avoid root damage caused by leachate.
- If roots less than 25 millimetres in diameter are encountered during works they must be cut cleanly with a sharp hand saw and covered with damp hessian to prevent them from drying out. Roots greater than 25 millimetres in diameter must remain in place and the AC contacted.

11. Arboricultural supervision

- 11.1 A suitably qualified Arboriculturist must be engaged to provide technical advice should it be required.
- 11.2 A pre commencement meeting must be undertaken to present this method statement to the main building contractor and or site agent, to establish that the tree protection barrier and ground protection materials conform to this method statement, and to confirm correct installation of all tree protection measures before commencement of any works on site. A Site Monitoring Form, see pro forma in Appendix 8, will be completed to sign off the installation of the tree protection measures, and a copy forwarded to the local authority.
- 11.3 Additional direct site supervision is considered unnecessary and would be disproportionate to the risk associated with the work.

12. Contingency plans

- 12.1 A general contingency plan for this project must be prepared by the main contractor for controlling such things as chemical/fuel spillage, run off from cement washings, sewage or water leaks, site collisions and emergency access into or adjacent to retained tree RPAs.

13. Queries

Any queries regarding this Tree Report should be addressed in the first instance to:

Tree Surveys, Bramley House, Newnham Bridge, Tenbury Wells, WR15 8NX
Telephone: 0118 976 2902
Email: info@tree-surveys.com

Paul Billin, BSc, MICFor
Chartered Arboriculturist
Tree Surveys



Tree Surveys

BS5837 – Pre Planning – Mortgage – Risk Management & Prediction

APPENDIX 1

BS5837:2012 Tree Survey

Tree Surveys

Client: Mr C Hornby
Project: 58 Kings Road
Survey Date: 10/12/2021
Surveyor: Paul Billin



Bramley House
Newnham Bridge
Tenbury Wells
Worcs
WR15 8NX
Phone: 0118 976 2902

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
1												
Common Alder <i>Alnus glutinosa</i>	12.5	5	372 (Eq)	N E S W	3.5 3 4 3.5	3.5 3.5 5 4	SM	A: 62.8 R: 4.47	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Coppice stool origin	B 20 to 40 yrs
2												
Common Alder <i>Alnus glutinosa</i>	10.5	1	210	N E S W	0.25 1.5 4 1.5	5 5 4 5	SM	A: 20 R: 2.52	Fair	C: Fair S: Poor B: Fair	No action :: Unspecified Dog leg in stem 1.1m AGL. Asymmetric canopy biased to south	C 20 to 40 yrs
3												
Common Alder <i>Alnus glutinosa</i>	12.5	3	478 (Eq)	N E S W	3 5.5 5.5 1.5	5 1.5 3 4	SM	A: 103.3 R: 5.73	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Coppice stool origin	B 20 to 40 yrs
4												
Weeping Willow <i>Salix chrysocoma</i>	11.5	1	820	N E S W	4 4 5.5 2	5 5 4.5 3.5	M	A: 304.2 R: 9.84	Fair	C: Fair S: Fair B: Fair	Pollard :: Re-pollard Crown reduced within 3 years; from old pollard heads. Continue pollarding on 3 to 4 year cycle	A >40 yrs
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems: Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition ERC: Estimated Remaining Contributio			

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
5												
Weeping Willow <i>Salix chrysocoma</i>	11.5	1	820	N	3.5	6	M	A: 304.2 R: 9.84	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Crown reduced within 3 years; from old pollard heads.	A >40 yrs
6												
Weeping Willow <i>Salix chrysocoma</i>	11.5	1	980	N	3.5	6	M	A: 434.5 R: 11.76	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Crown reduced within 3 years; from old pollard heads.	A >40 yrs
7											Estimated Measurements	
Sycamore <i>Acer pseudoplatanus</i>	7.5	1	130	N	1	2	Y	A: 7.6 R: 1.55	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified	C 20 to 40 yrs
8											Estimated Measurements	
Prunus <i>Prunus Spp.</i>	5.5	1	130	N	1	2	Y	A: 7.6 R: 1.55	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified	C 20 to 40 yrs

Report selection criteria.

Projects.

58 Kings Road

Date Range.

Any Date

Work types.

----> No action :: Unspecified
----> Pollard :: Re-pollard

Latest Survey.

All surveys for the selected trees.
---> Last survey for each selected tree.

Work Completed.

---> Work Completed
---> Work Not Completed

Number of trees in selected Project(s) **8**

Number of trees in Report selection **8**

Age Classifications:

N	Newly planted	EM	Early Mature
Y	Young	M	Mature
SM	Semi-mature	OM	Over Mature

Condition:

C	Crown
S	Stem
B	Basal area

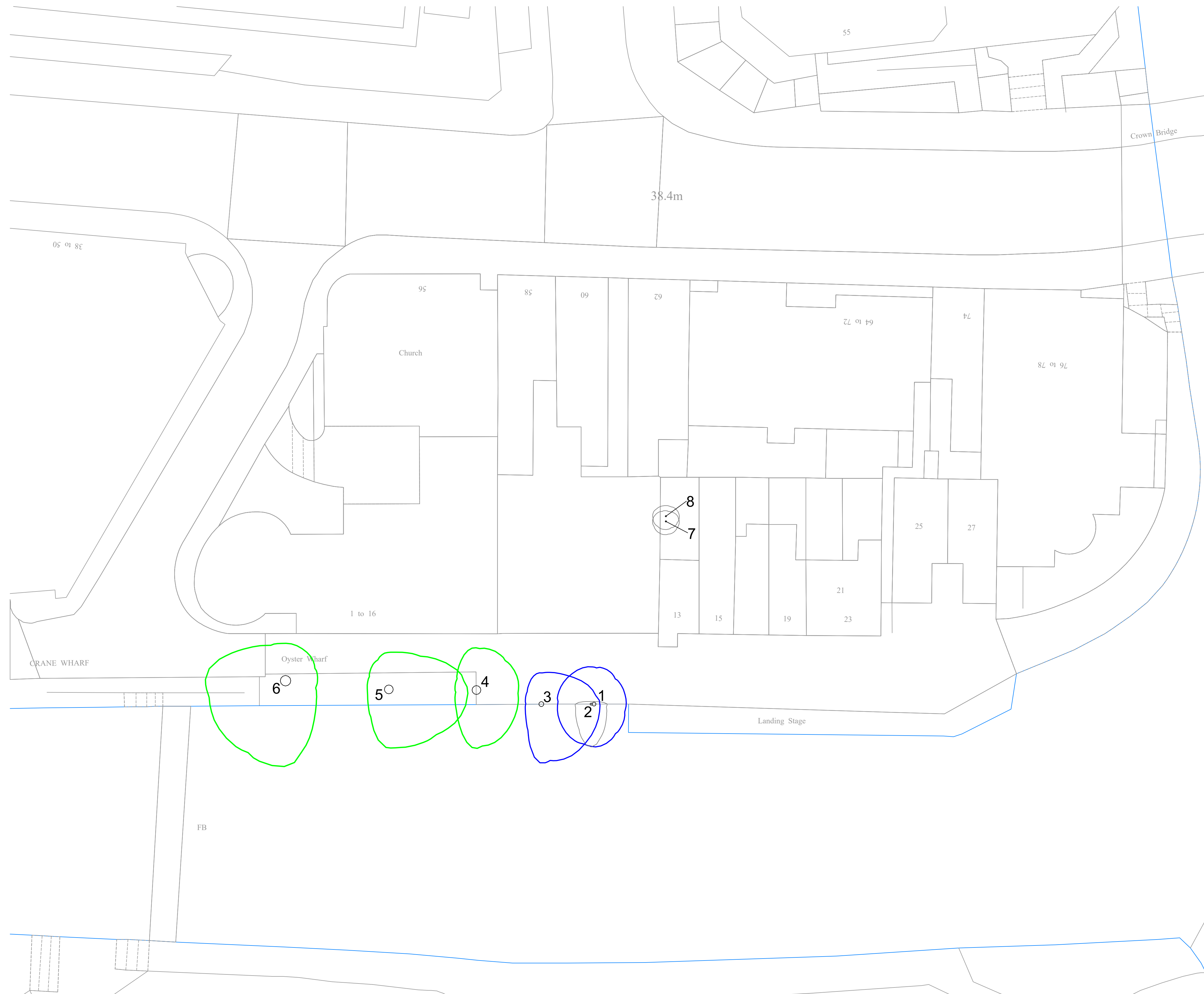
Stems: Ø Diameter
(Eq) Equivalent stem diameter using BS5837:2012 definition
ERC: Estimated Remaining Contributio



Tree Surveys

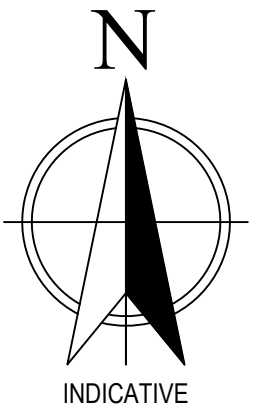
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APPENDIX 2

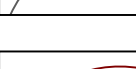
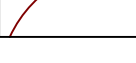
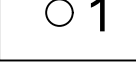


NOTES

- All dimensions must be checked on site and not scaled from this drawing.
- The original of this drawing was produced in colour, a monochrome copy should not be relied upon.
- Read drawings in conjunction with arboricultural report.
- Topo based on OS data, Licence No. 100023148.

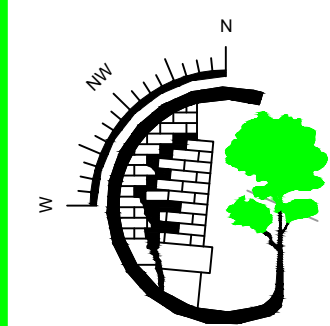


Key:

- | | |
|---|--|
|  | <p>Tree Category A 1,2 or 3</p> <ul style="list-style-type: none"> - trees of high quality |
|  | <p>Tree Category B 1,2 or 3</p> <ul style="list-style-type: none"> - trees of moderate quality |
|  | <p>Tree Category C 1,2 or 3</p> <ul style="list-style-type: none"> - trees of low quality |
|  | <p>Tree Category U</p> <ul style="list-style-type: none"> - trees that cannot realistically be retained |
|  | <p>Tree number</p> <ul style="list-style-type: none"> - refer to report for information |
|  | <p>Existing site features</p> |



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Tree Surveys

Bramley House,
Newnham Bridge,
Tenbury Wells,
Worcestershire, WR15 8NX
Tel: 0118 762902
e-mail: info@tree-surveys.com

Client	Mr C Hornby
--------	-------------

Job Title 58 Kings Road,
Reading, RG1 3AA

Drawing Title

TREE LOCATION PLAN

Scale 1:200 @ A1

Date	December 2021	Drawn: MJE	Checked: PB
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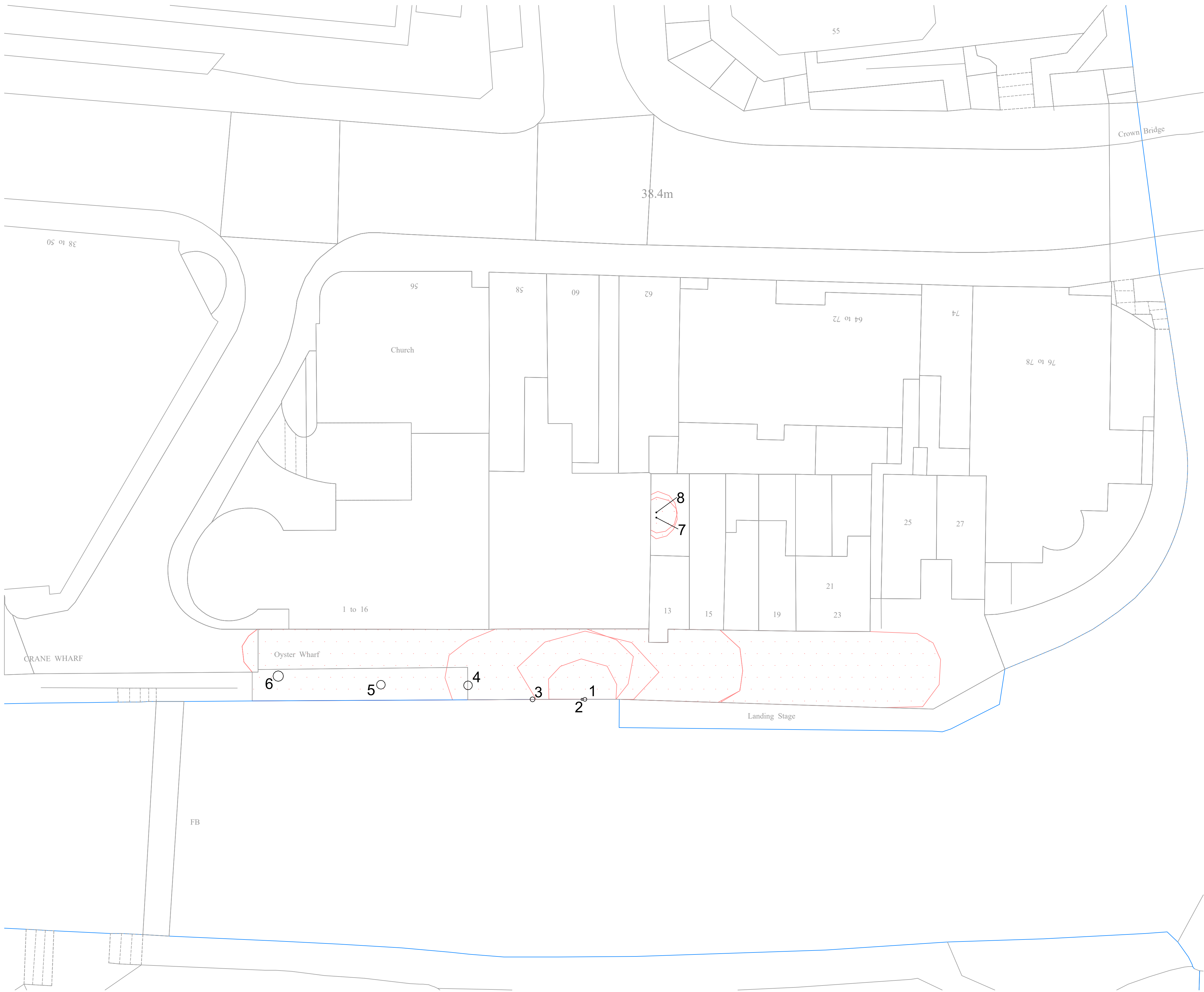
Drg. No.	PB/5837-21/12.10	Rev.
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Tree Surveys

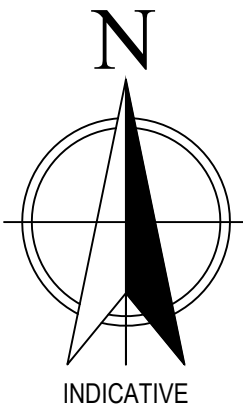
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APPENDIX 3



NOTES

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- Topo based on OS data, Licence No. 100023148.

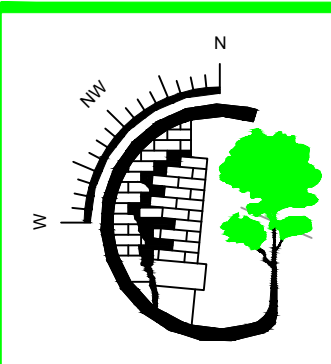


Key:

- Tree Category A 1,2 or 3
- trees of high quality
- Tree Category B 1,2 or 3
- trees of moderate quality
- Tree Category C 1,2 or 3
- trees of low quality
- Tree Category U
- trees that cannot realistically be retained
- Tree number
- refer to report for information
- Existing site features
- Root protection area (RPA)



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Tree Surveys
Bramley House,
Newnham Bridge,
Tenbury Wells,
Worcestershire, WR15 8NX
Tel: 0118 762902
e-mail: info@tree-surveys.com

Client **Mr C Hornby**

Job Title **58 Kings Road,
Reading, RG1 3AA**

Drawing Title
ROOT PROTECTION AREA PLAN

Scale 1:200 @ A1

Date December 2021 Drawn: MJE Checked: PB

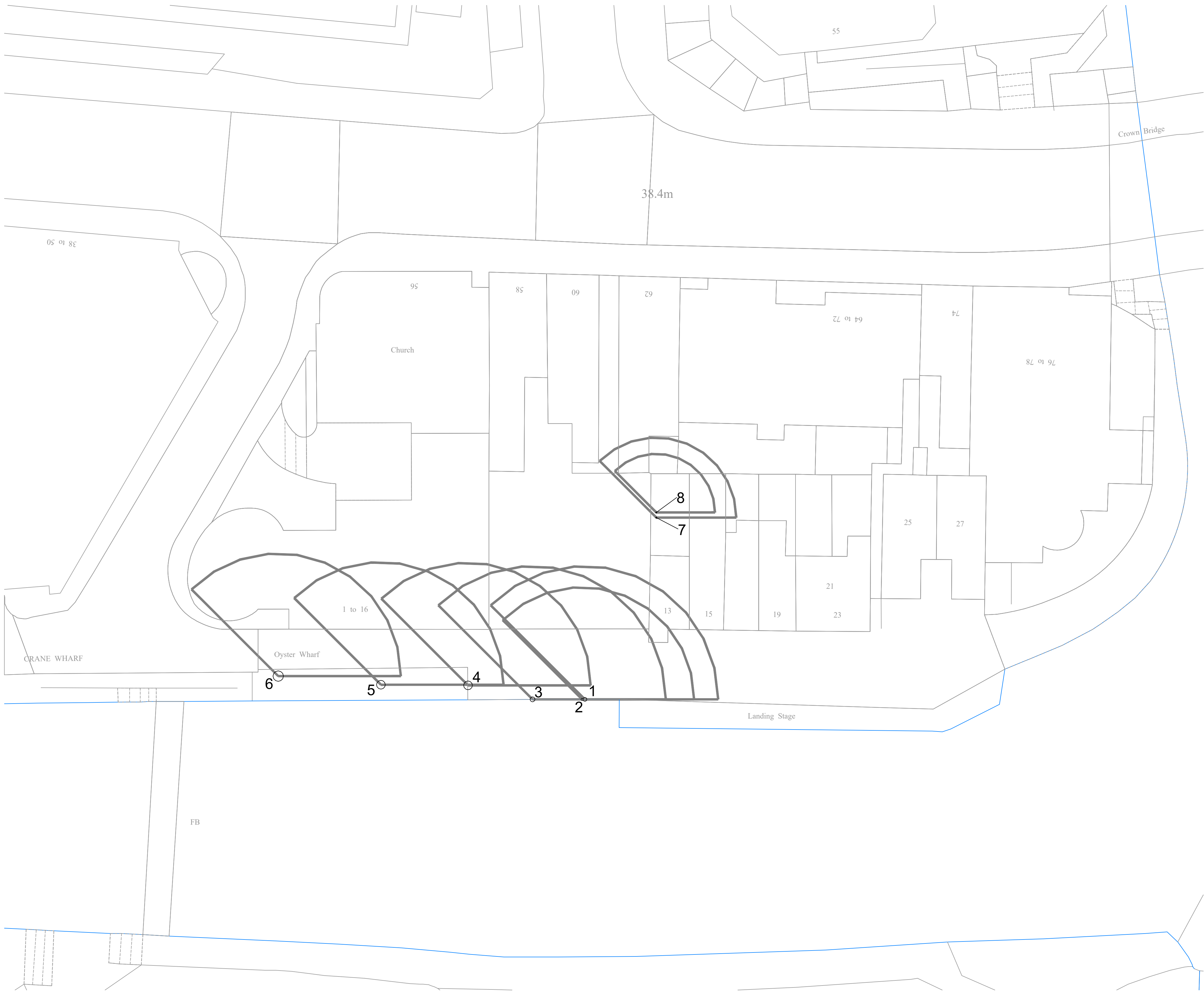
Drg. No.	PB/RPA-21/12.10	Rev.
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Tree Surveys

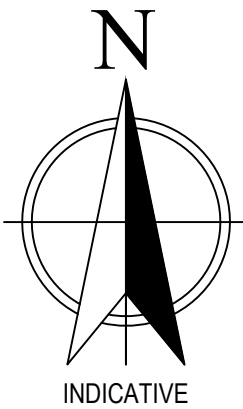
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APPENDIX 4



NOTES

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- Read drawings in conjunction with arboricultural report.
- Topo based on OS data, Licence No. 100023148.

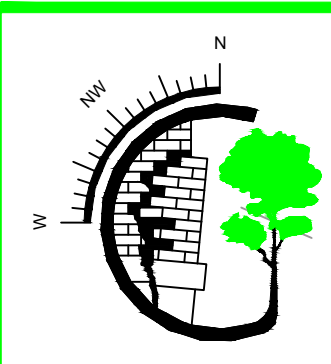


Key:

- Tree Category A 1,2 or 3
- trees of high quality
- Tree Category B 1,2 or 3
- trees of moderate quality
- Tree Category C 1,2 or 3
- trees of low quality
- Tree Category U
- trees that cannot realistically be retained
- Tree number
- refer to report for information
- Existing site features
- Area of shade



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Tel: 0118 762902
e-mail: info@tree-surveys.com

Client Mr C Hornby

Job Title 58 Kings Road,
Reading, RG1 3AA

Drawing Title SHADE CONSTRAINTS PLAN

Scale 1:200 @ A1

Date December 2021 Drawn: MJE Checked: PB

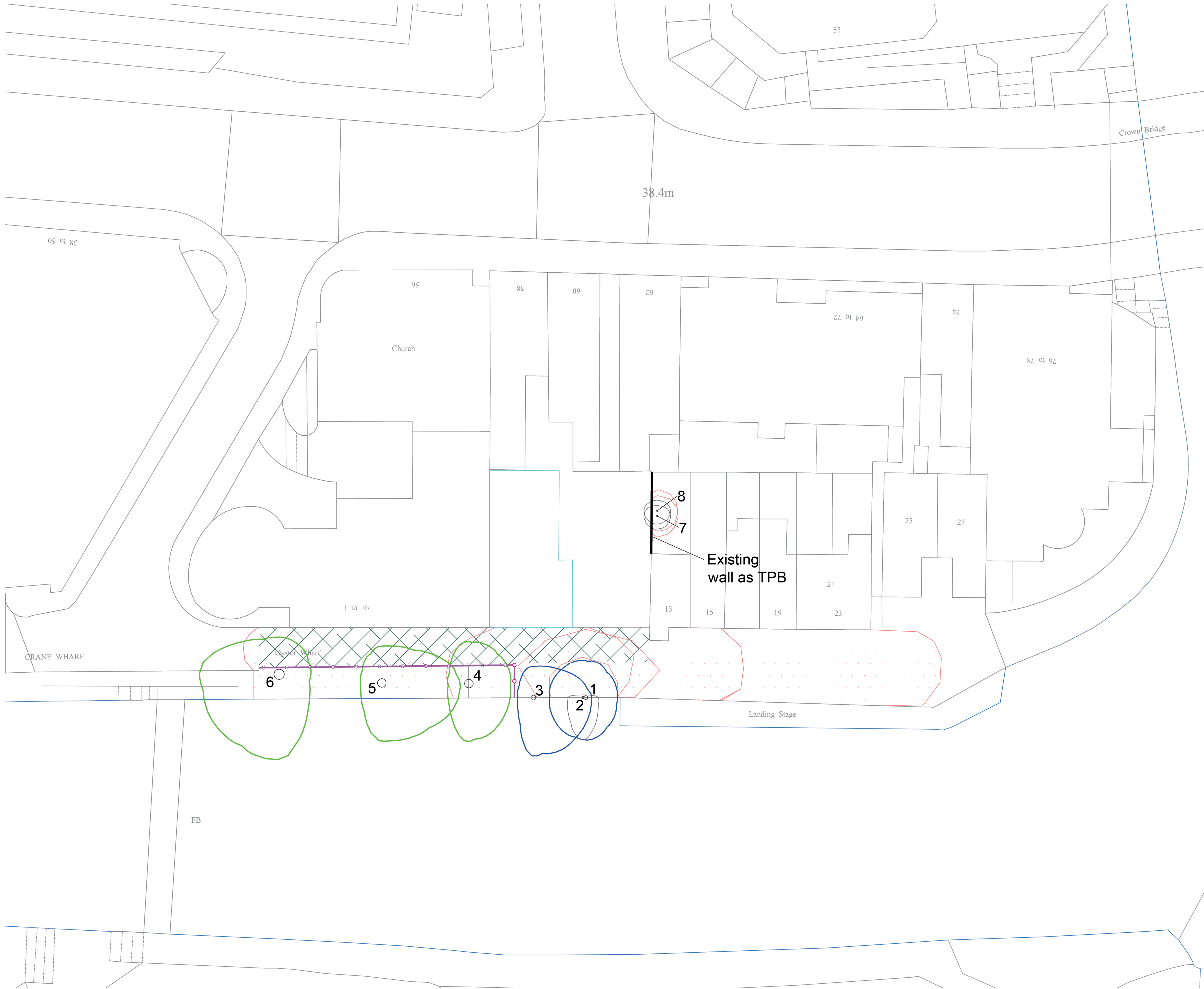
Drg. No. PB/SC-21/12.10	Rev.
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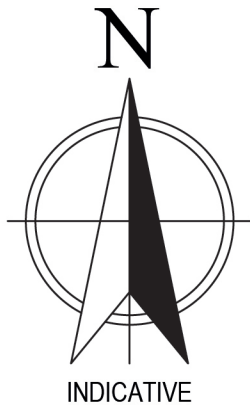
Tree Surveys

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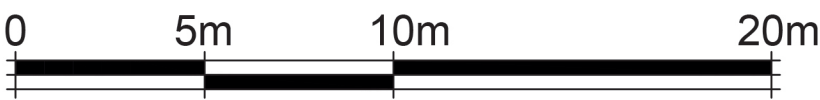
APPENDIX 5



- NOTES
- All dimensions must be checked on site and not scaled from this drawing.
 - The original of this drawing was produced in colour, a monochrome copy should not be relied upon.
 - Read drawings in conjunction with arboricultural report.
 - Topo based on OS data, Licence No. 100023148.
 - Proposed based on Creative Design and Structure, drawing number 09521-09.



- Key:
- Trees retained
- refer to report for information
 - Tree number
- refer to report for information
 - Existing site features
 - Root protection area (RPA)
 - Proposed development
 - Tree protection barrier (TPB)
- refer to report for information
 - Ground protection – temporary (min area)
- refer to report for information



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Tree Surveys
Bramley House,
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Tel: 0118 762902
e-mail: info@tree-surveys.com

Client **Mr C Hornby**

Job Title **58 Kings Road,
Reading, RG1 3AA**

Drawing Title
MITIGATION PLAN

Scale 1:200 @ A1

Date December 2021 Drawn: MJE Checked: PB

Drg. No. PB/MIT-21/12.10	Rev.
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APPENDIX 6



Tree Surveys

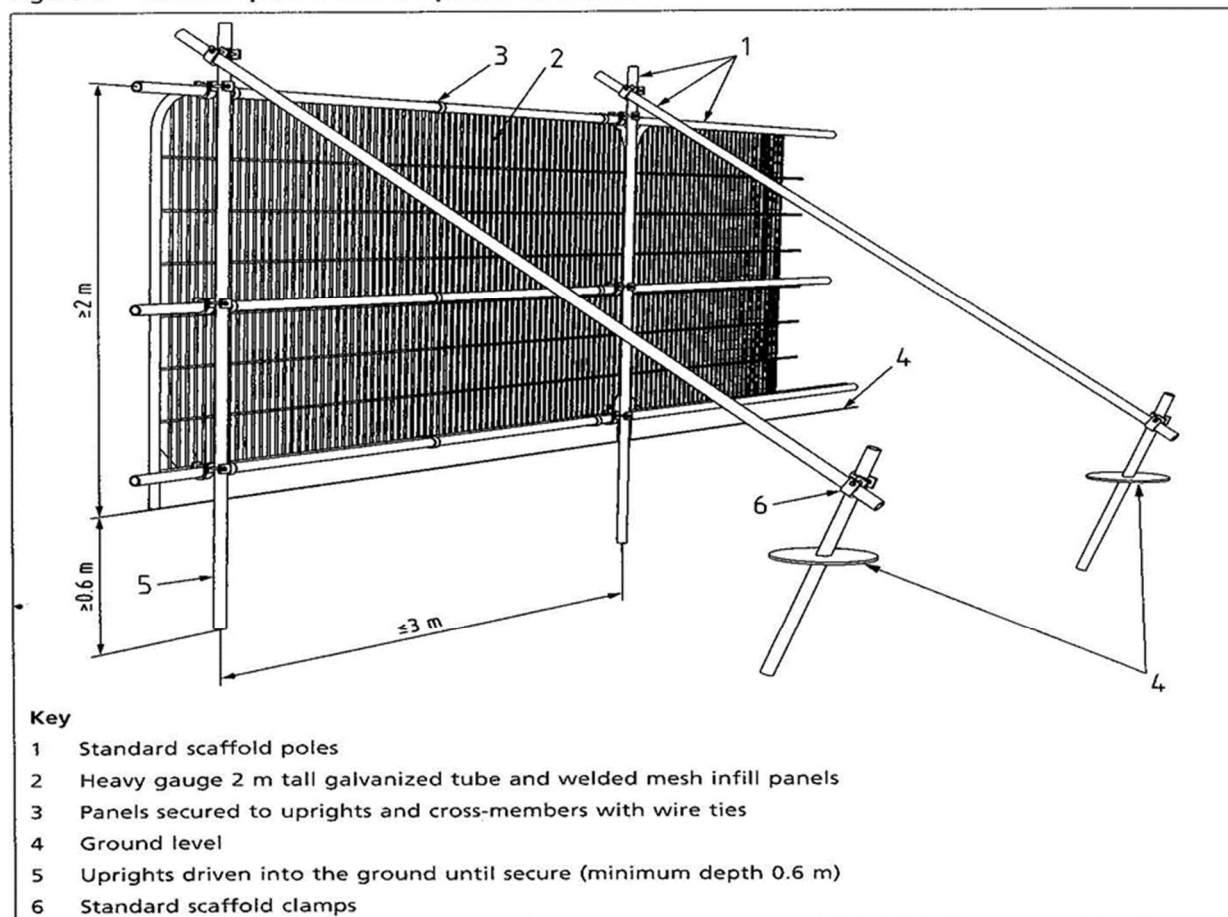
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BS 5837 FIGURE 2 TREE PROTECTION

Root Protection Areas (RPAs), enclosed by Default Temporary Protective Fencing, as detailed below and to be agreed with the Local Planning Authority (LPA), shall:

1. Be protected throughout the development process, as specified and detailed in BS 5837:2012 Section 6.2, Fig 2
2. Be erected prior to any construction, demolition or excavation works and remain in place for the duration of the project.
3. Preclude any delivery of site accommodation and or materials and or plant machinery.
4. Preclude all construction related activity, with the sole exception of specified arboricultural works and any other works carried out under supervision that has been agreed by all parties, and:
5. Preclude the storage of all development related materials and substances including fuel, oils, additives, cement and or any other deleterious substances.
6. Any incursions into RPAs must be by prior arrangement, following consultation with the LPA.

Figure 2 Default specification for protective barrier





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APPENDIX 7

TREE PROTECTION ZONE KEEP OUT!

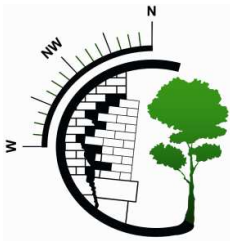
NO DIGGING OR TRENCHING
NO STORAGE OF PLANT OR MATERIALS
NO VEHICLE ACCESS
NO FIRE LIGHTING
NO CHEMICAL HANDLING
AVOID PLANT CONTACT WITH TREE CANOPY
REPORT ANY DAMAGE
TO TREES OR FENCING IMMEDIATELY



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APPENDIX 8



Tree Surveys

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Arboricultural Consultant's Development Site Monitoring Form

Arboricultural Consultant's Details:

Company Name/Address: Tree Surveys
Bramley House
Newnham Bridge
Tenbury Wells
WR15 8NX

Consultant's Name:

Tel:

Development Site Address:

58 Kings Road, Reading, RG1 3AA

Local Planning Authority (LPA):

LPA Case Officer:

LPA Tree Officer:

Developers Details:

Company Name/Address:

Consultant's Name:

Tel:

Email:

Stage of development (✓):

Pre-development works

Developments works

Post-development works

Tree Works

☐

Demolition

☐

Rectifying tree damage/pruning

☐

Protective fencing/tape

☐

Grading/muck away

☐

Hard landscaping/walls/drives

☐

Fencing signage

☐

Placing portacabin

☐

Removal of protective fencing etc

☐

Ground protection

☐

Excavations/services

☐

Soft landscaping

☐

Temporary haul road

☐

Construction works

☐

Special surface

☐

Tree planting

☐

Findings:

Action Taken:

Further action required/recommendations:

Comments:

Date of site visit:

Date of next site visit:

Date sent to LPA case office



Tree Surveys

BS5837 – Pre Planning – Mortgage – Risk Management & Prediction

APPENDIX 9

Hi Chris

As the land owner of the river bank with the three Willow trees growing on it, we are happy to give our permission for access to the river bank in order that the TPB's may be installed. The temporary ground protection on that land/river bank should remain in situ for the duration of the works and all the associated regulations regarding the existing TPO's should be adhered to.

Regards

John Palmer

52-54 Kings Rd
Reading
Rg1 3AA

(19/04/22)