

**Arboricultural Impact Assessment
and**

Tree Protection Measures

in accordance with BS 5837 : 2012

'Trees in relation to design, demolition and construction - Recommendations'.

Arun District Council Application Reference : WA/39/26/DOC (Condition 4.6)

Trees at

**Longacres
Eastergate Lane
Walberton BN18 0BA**

**Prepared for
Mr and Mrs Pearce
July 2026**

ARBORTECH (Consultancy)

The Osiers, Clay Lane, West Ashling,
Chichester, West Sussex. PO18 8DJ.

E mail : [REDACTED]

TREE INFORMATION.

- 1 **Tree Survey** To be read in conjunction with Appendix 4 '*Tree Survey Notes*' and Appendix 3 '*Tree Images*' and Appendix 1 '*Tree Protection Plan*'.

Tree ref	Species	Height (m)	DBH at 1.5m (mm)	Crown spread (m)	Height above ground (m)		Age Class	Structural	Physiological	BS 5837 : 2012 Category	RPA radius in metres
					1 st branch	Canopy					
T9	Eucalyptus	21	880	N 8 S 8 E 8 W 8	3 East	6-8	Mature	Good	Fair	C	10.6
T10	Walnut <i>Juglans regia</i>	10	460	N 8 S 7 E 9 W 6	2 North and South	1-2	Mature	Good	Good	B	5.5
Notes : Open grown tree. Spreading crown. -Single upright stem. Ivy on stem extending to 3.5m. -Fairly large pruning wounds to East and West at approx' 1.8m in height, with localised decay											
T12	Hawthorn <i>Crataegus monogyna</i>	5.2	340	N – S 1.6 E – W 1.25	5 West		Mature	Fair	Fair	C	4
Notes : Multi-stemmed from ground level (top of bank). -The base and lower stems are obscured by Ivy and debris. -There are several decaying pruning stubs from ground level and in crown. -Small crown See images at Appendix 3 G1 Hedge. Mixed native species; Hawthorn, Elm. Located on Eastern bank of ditch. The hedge running South from T2 is generally in a poor structural and physiological condition; Dead/dying. See images at Appendix 3											

2 ARBORICULTURAL IMPACT ASSESSMENT.

Arun District Council have requested that arboricultural evidence be provided and adhered to where drainage works are close to existing trees.

The drainage proposal in relation to Condition 4 seeks to create an improved flow to watercourses by reducing the bed of a section of the ditch. The maximum depth of bed reduction is 370mm. The proposal does not seek to widen the bed of the ditch and the outflow head wall is to be located outside RPAs and outside of the line of the ditch.

This arboricultural report seeks to provide the evidence that the trees close to the drainage works will not be adversely affected. Any potential impacts are to be mitigated and physical tree protection will be installed where necessary to avoid impacts.

2.1 Tree Root Protection Areas (RPAs).

The 'Root Protection Area' is the minimum area (m²) around a tree deemed to contain sufficient roots and rooting volume to maintain a tree's viability and where the protection of the roots and soil structure is treated as priority.

Prior' Hand-dig Site Investigations (To be read in conjunction with Appendix 1 and 2).

To evaluate the potential of any adverse impacts upon the retained trees/hedge by the proposed drainage works;

Careful prior hand-dig site investigations were undertaken using hand-held tools only;

- a) in the bed of the ditch within the Root Protection Area of T12.
 - b) and at the location of the maximum depth of ditch bed reduction.
- to determine the presence of any significant roots (diameter 25mm or over).

In summary the site investigations revealed that ;

No significant roots (diameter 25mm or over) were discovered within the RPA of T12 nor at the location of the maximum depth of ditch bed reduction (370mm).

Appendix 1 and 2 provide further detail of the 'prior' hand-dig site investigations.

2.2 Construction Exclusion Zone.

In order to prevent physical damage to the retained trees or disturbance/damage within tree rooting environment by construction activities;

Measures for tree protection will need to be implemented prior to, during and post construction phases of development.

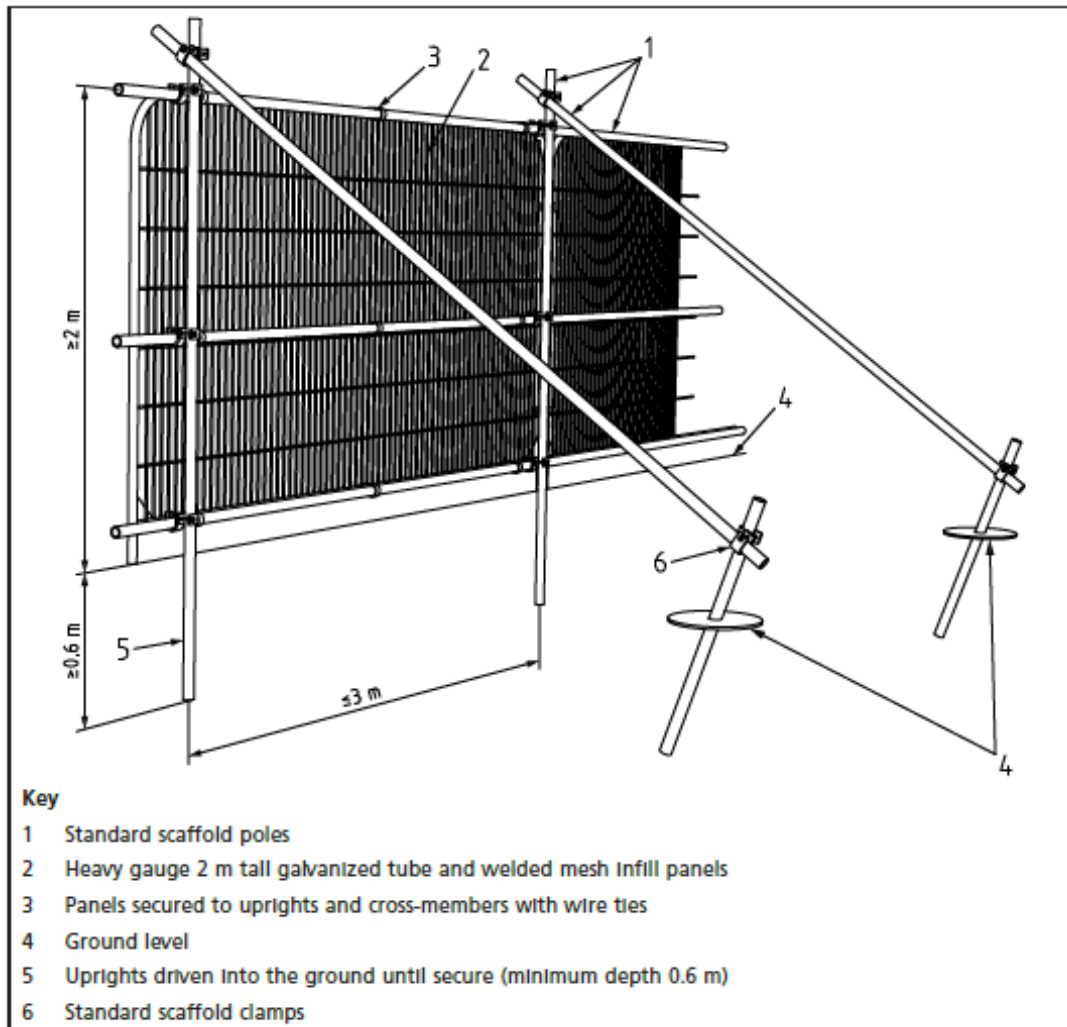
In accordance with BS 5837:2012 (*Section 6.2*). Tree Protection Barriers are proposed to protect retained trees from construction activities.

Prior to commencement of construction and before any materials or machinery are brought onto the site; Tree protection measures are to be installed as set out on the '*Tree Protection Plan*' at Appendix 1.

3. TREE PROTECTION MEASURES.

3.1 Tree Protection Barriers.

Figure 1. Default specification for Tree Protection Barriers (Fig 2 BS 5837 : 2012)



3.2 Signage

Waterproof signs are to be attached to the protective barriers stating clearly that the barriers are 'Tree Protection' and 'Not to be moved without authorisation'.

3.3 General Protection Measures.

Root Protection Areas

The Root Protection Areas of retained trees should be regarded as sacrosanct. Access by construction activity is prohibited within the unprotected RPAs.

Soil Level Changes.

No machine excavation, soil stripping or site grading should be undertaken within RPAs to avoid root severance/disturbance.

Topography of the Site.

Care should be taken to avoid 'run off' from toxic fluids during construction, which May be harmful to trees e.g concrete mixings, diesel, oil.

Underground Utility Services.

Underground utility services will avoid the need to be routed through Root Protection Areas to avoid damage to tree root systems.

Storage of construction materials

No construction materials or any material likely to be injurious to a tree i.e Oil, Bitumen, Cement (concrete mixing), should not be stacked or discharged within the Tree Root Protection Area or within 10m from a tree stem. Allowance should be made for any slope of the ground, so that damaging materials cannot run towards the trees. At no time should the Root Protection Area be breached for storage purposes including site cabins.

Machinery/Equipment near tree canopy.

Great care should be exercised when using piling rigs, mobile cranes or similar equipment near the spread of the canopy of trees so as not to damage them in any way. The site supervisor should take responsibility for supervising the approach, exit and on site activities of delivery, muck-away vehicles and site machinery.

Fires

Fires should not be lit in a position where their flames can extend to within 5m of foliage, branches or trunk. Size of fire and wind direction should be taken into account.

Landscape operations and Management within RPAs.

All landscaping will be undertaken sensitively by hand using hand-held tools only.

Good quality topsoil may be used to level and fill hollows.

Raising levels may be achieved by use of a granular material which remains gas and water permeable throughout its design life.

4 RECOMMENDATIONS.

Prior to commencement of the development, the length of ditch proposed for bed reduction close to trees/hedge, as indicated on the 'Tree Protection Plan', should be hand dug in accordance with the hand-dig Method Statement at Appendix 5, with arboricultural supervision.

Once this work has been undertaken, the RPAs should be regarded as sacrosanct. Access by construction activities is prohibited within the unprotected RPAs.

5 OTHER CONSIDERATIONS

5.1 Trees subject to statutory controls.

Consultation with the local planning authority will be required prior to any pruning works to trees covered by a tree preservation order or located in a conservation area.

5.2 Risk

The Occupiers Liability Act 1957 & 1984 places a “common duty of care” upon the owner occupier of a site to take reasonable steps to minimise the risk of personal injury or damage to property arising from any tree on that site.

5.3 Wildlife.

Your attention is drawn to the wildlife and Countryside Act 1981 (as amended) and related legislation which provides statutory protection for nesting birds and bats including roosting sites, some mammals, invertebrate species and plants.

5.4 Trees outside the property.

Trees located in adjacent properties are effectively out of the control of the owners of this site. By common law, branches from trees on adjacent properties extending over boundaries can be pruned back without the permission of the owners (not beyond the boundary line), providing the trees do not become unsafe. However, the material belongs to the tree owner and the same guidance on statutory controls apply.

6 BIBLIOGRAPHY / REFERENCES

British Standard 5837 '*Trees in relation to design, demolition and construction - Recommendations*' : 2012.

British Standard 3998 '*Recommendations for Tree Work*' (2010).

Conservation of Habitats and Species Regulations 2017 (As amended).

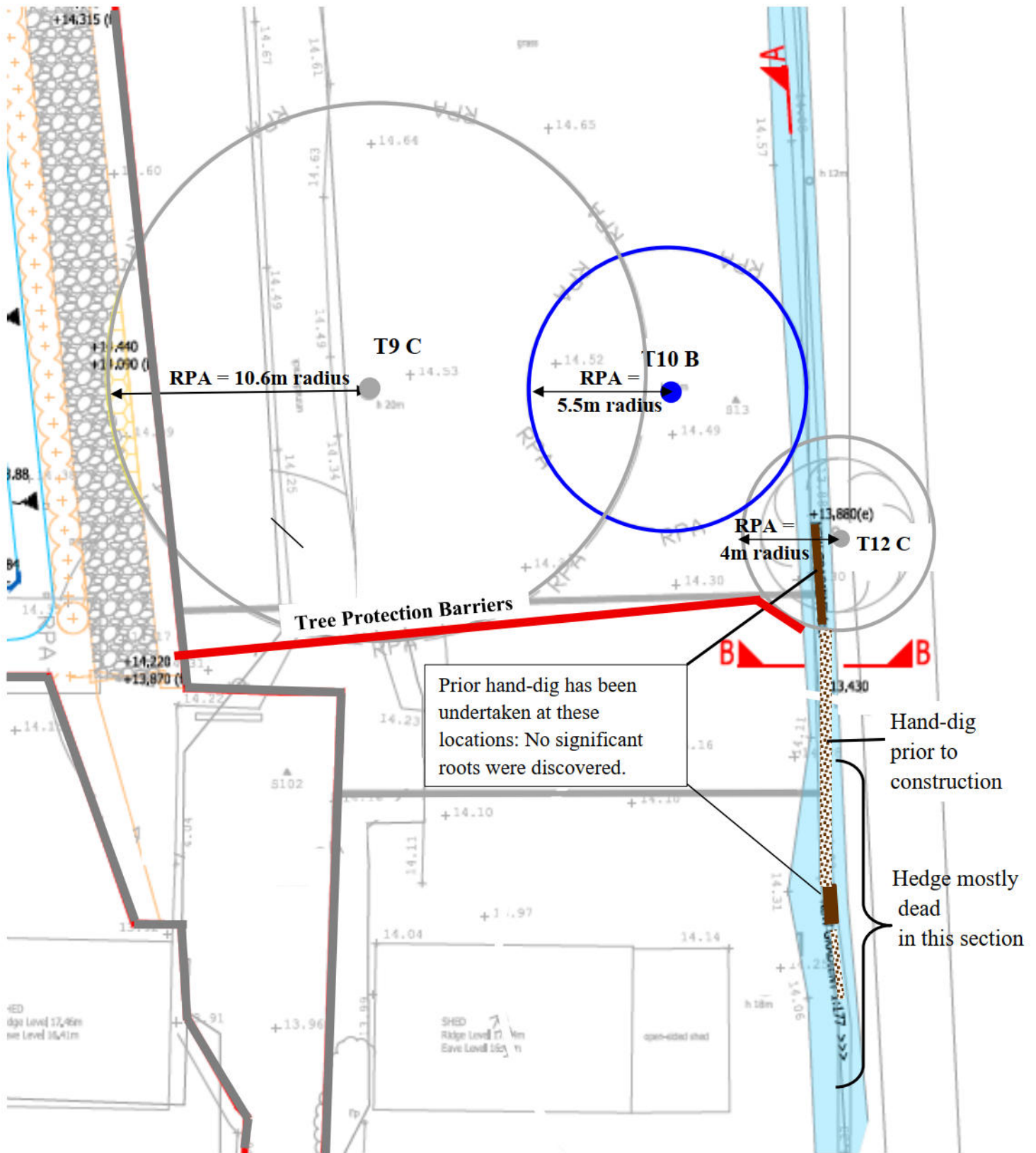
Occupiers Liability Act 1957 & 1984.

Town & Country Planning Act 1990.

Wildlife & Countryside Act 1981 (As amended).

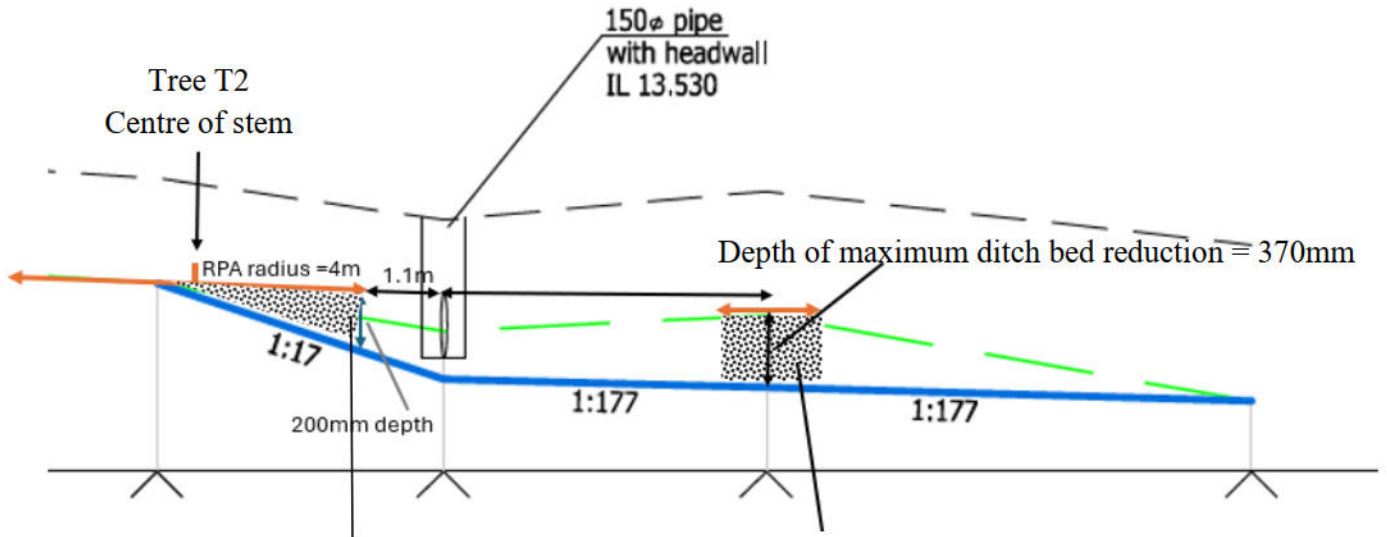
APPENDIX 1

TREE PROTECTION PLAN



APPENDIX 2

Prior hand-dig Site Investigations



Site investigations to depth of 200mm



Site investigations to depth of 370mm



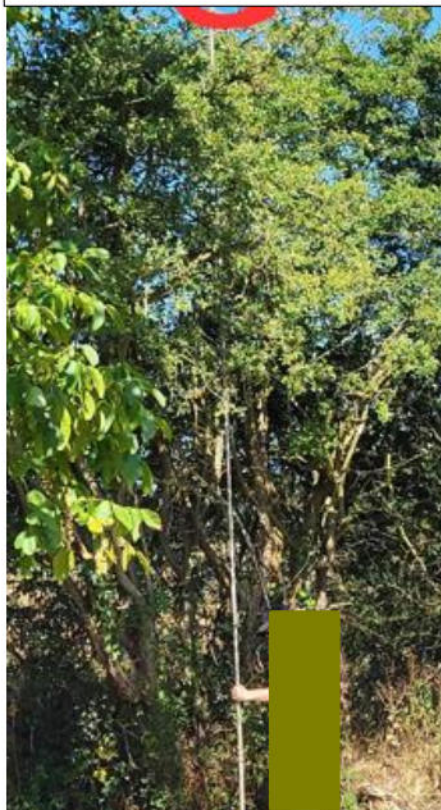
APPENDIX 3

Tree Images

G1 Hedge



T12 C Hawthorn



APPENDIX 4.

Tree Survey Notes

GENERAL TREE SURVEY NOTES.

- Tree species has been determined (common name and scientific)
- All tree dimensions are estimated, height and spread being measured in metres and trunk diameter measured at 1.5m above ground level or if more than one stem, an average stem diameter is stated.
- The tree age classification is made in terms of the trees site specific maturity within the landscape.

Age groups are indicated as

J	- Juvenile tree
SM	- Semi-mature tree
EM	- Early mature
M	- Mature tree
OM	- Over mature
Vet	- Veteen
Anc	- Ancient

ASSESSMENT AND CATEGORY CLASSIFICATION.

The condition of trees included in the survey has been assessed by a person being qualified and experienced in arboriculture. In making the assessment particular consideration has been given to :

- Tree species.
- Tree dimensions.
- Health, Age and Vigour of tree.
- Tree conformation including any structural defects.
- The location of the tree, relative to the existing site and surroundings.
- The landscape and environmental/habitat value.

On the basis of this individual assessment, the trees are classified into one of the following categories, or intermediate categories

- | | | |
|----------|----------------|--|
| A | (GREEN) | Trees of high quality. |
| B | (BLUE) | Trees of moderate quality. |
| C | (GREY) | Trees of low quality in adequate condition until new planting established. |
| U | (RED) | Trees in current context cannot realistically be retained. |

In addition, the above categories may be attributed one or more of the following criteria :

- 1 Arboricultural values.
- 2 Landscape values.
- 3 Cultural values including Conservation.

APPENDIX 5

ARBORICULTURAL METHOD STATEMENT

Hand-dig Site Investigations, ‘prior’ to construction phase of development.
within Tree Root Protection Areas (RPAs) of T12C and G1.

Site : Longacres Eastergate Lane Walberton BN18 0BA

Development Proposal : Ditch bed reduction as per drainage engineers drawing (GTA Drawing No 13467/1800 Rev P1).

Tree Location : The location of the trees and table of Root Protection Area dimensions (radius) are stated on the ‘Tree Protection Plan’ included at Appendix 1 of this report.

Purpose of task : To provide certainty that no significant tree roots are present at the hand-dig location as marked on the ‘Tree Protection Plan’ included at Appendix 1 without causing root damage which may be detrimental to tree health or stability.

Dimensions of hand-dig : As per the ‘Tree Protection Plan’

Author : Mrs J.A Hayes

When work will be undertaken.
Prior to construction - To be confirmed.
Who will do work.
1 x Labourer 1 x Arboricultural Supervisor.
What Equipment will be used.
Hand tools (only) : Spade, Fork, Pick, Dry hessian, Handsaw. Trowel to be used for hand digging around roots <i>to limit the potential risk of bark damage if roots are encountered, particularly in relation to trial pits that are close to the base of the tree or as instructed by the arboricultural supervisor.</i>

How work will proceed :

Works will be undertaken in accordance with recommendations set out in British Standard 5837:2012.

No machine excavation, levelling or grading will be undertaken within the Root Protection Area.

Method of works :

- The extent of RPAs and dimensions of site investigations are to be marked out on the ground.
- Careful excavation will be undertaken by hand-digging only, using the above hand-digging tools as appropriate for the task, to a minimum depth of 600mm below existing ground level, taking account of the following :
 - Damage will be avoided to the protective bark covering larger roots.
 - Roots smaller than 25mm diameter may be cleanly pruned back to side branches using a handsaw.
 - Dessiccation of roots will be avoided by wrapping them in clean dry hessian, if exposed.

Arboricultural Supervision :

- Hand-dig site investigations will be supervised by the Arboricultural Supervisor during the hand-dig operation.

Closure of trial pits (as required) :

- Any hessian wrapping will be removed prior to closure.
- Retained roots will be surrounded with sharp sand or good quality top soil before soil is replaced.

Task Specific Conditions/Arrangements :

- The Client should notify Arbortech (Consultancy) of the presence of underground services, in particular those that have the potential to cause harm at the site of hand -dig investigations.
- Surveyor/Labourers will undertake a risk assessment prior to commencement of hand-dig and review as appropriate.
- Ground and weather conditions will be assessed as suitable prior to commencement i.e not during extremes of wet conditions.
- Efforts will be made to limit ground compaction by use of pedestrian ground protection.

Signed (prior to commencement of hand dig) :

Arboricultural Supervisor (Mrs J.A Hayes) :

Labourer 1.

Date :

APPENDIX 6 – ABOUT US.....

We specialise in all tree-related matters :

- ✓ Development/Planning-BS5837:2012,
- ✓ Planning Services-Tree Preservation Orders & Conservation Areas,
- ✓ Tree Hazard Evaluation,
- ✓ Woodland Management etc

We have 25 years experience in the arboricultural industry.

We aim to keep at the forefront of arboriculture; through ongoing review, training and development programmes.

Arboricultural Consultant : Mr J.R Hayes. Tech.Cert.(Arbor.A).
Technicians Certificate in Arboriculture 1998.
City & Guilds Tree Surgery for Craftsmen 1990.

Arboricultural Surveyor : Mrs J.A Hayes.
Lantra Professional Tree Inspection Award 2006
Registered Natural England Class Survey Licence Holder :
Bat Survey Science & Education Level 2 : 2015-12956-CLS-CLS CL18

Member of :

The Arboricultural Association.
Chartered Institute of Ecology and Environmental Management.

Arboricultural Consultants to :

Chichester Cathedral.
Chichester City Council
Chichester District Council
Goodwood Estate.
Halburn Ecological Consultants.
London Biggin Hill Airport.
Mansell Construction.
John Mowlem & Company PLC.....
References supplied upon request.

Insurance cover :

Employers liability	10,000,000
Public liability	5,000,000
Professional indemnity	1,000,000

Copy supplied upon request.

TERMS OF ENGAGEMENT.

1. Any report is provided for the sole use of the named Client and is confidential to the Client and his professional advisors. The Consultant accepts responsibility to the Client alone for the stated purposes of the report. No responsibility whatsoever is accepted to any person other than the Client himself. Any other such person relies upon the report at entirely his own risk. Neither the whole nor any part of the report or any reference thereto may be reproduced or transmitted, in any form or by any means, nor sold, hired or divulged to any third party without the Consultants prior written approval.
2. The content of any information supplied to the consultant by the client, including such items as reports, plans diagrams letters, data etc will be deemed to be true and accurate and such items will not be investigated or checked for their validity. Any information supplied subsequently found to be inaccurate, misleading or false may render the contents of the report invalid.
3. The report remains the property of the Consultant until payment has been received in full. The Client shall pay the Consultant his fee regardless of any outcome. In addition the Client will reimburse the Consultant the cost of all reasonable out of pocket expenses which he may incur. Payment in full of the total amount due must be made within 14 days and the Consultant shall be entitled to charge interest both before and after any judgement on the amount unpaid, at the rates listed below (delayed payment surcharge) per month (30 days) from time to time, until payment in full is made (a part of a month being treated as a full month for the purpose of calculating interest). No discount nor retention or set off against the same due is allowed unless agreed previously by the Consultant in writing.
DELAYED PAYMENT SURCHARGE.
Accounts not settled within the 14 day period will be surcharged as follows :
2.5% for payment within 1 month.
5% for payment within 2 months.
10% for payment within 3 months (maximum time limit)
Surcharges are not an offer of extended credit.
4. The consultant reserves the right to charge the client for a proportion of the services undertaken, should the client, further to instructions, cancel the agreed commissioned services.
5. Any information in relation to the tree(s) survey/inspection must be provided at the time of the survey/inspection process, prior to the compilation of the report document. Any information received by the consultant after this time will not have been considered and an additional re-assessment of the trees may be necessary at the clients expense.
6. In making the report, the following assumptions will be made by the Consultant (and these are therefore matters for which no responsibility can be accepted by the Consultant);
 - (i) that there are not underground pipes, wires, cables, or other services or installations which might be damaged as a result of work recommended or necessary.
 - (ii) that no tree(s) is the subject of or protected by a Tree Preservation Order or the terms of a planning consent (unless stated), in relation to which the Client must make his own enquiries of the Planning Department responsible.
7. It is possible that the report will suggest further investigation works to be carried out by a specialist firm or person eg. Structural Engineer, Surveyor, drain or electrical engineer or other. On no account will liability be accepted by the Consultant in respect of matters on which the client is recommended to obtain such other specialist advice or if the Client proceeds or acts without obtaining and acting upon the relevant further advice.
8. The report will not purport to express an opinion about or to advise upon the condition of un-inspected parts of the land or tree(s) and should not be taken as making any implied representation or statements about such parts.
9. Preliminary surveys are visual inspections which do not include any information on engineering, no root or soil samples are taken for analysis and trees are not climbed (unless stated).
10. The Consultant will inspect as much of the land and tree(s) as is practicable given the scope of his instructions and the level of fee agreed. He will be under no obligation to inspect those areas that are unexposed or not readily accessible.
11. The tree survey and inspection process requires good, clear access to the trees being inspected. Any obstructions will limit the inspection process and will be noted within the survey / inspection assessment. The removal of any obstructions such as dense undergrowth, climbing plants etc will not be undertaken as part of the process, unless this additional operation has been previously agreed with the client.
12. The statements made in this report do not take account of the effects of extreme climate, vandalism or accident whether physical, chemical or fire. We cannot therefore accept any liability in connection with these factors, nor where prescribed work is not carried out in a correct or professional manner in accordance with current good practice. The authority of this report ceases at any stated time limit within it, or if none stated after 1 year from the date of the survey or when any site conditions change, or pruning or other works unspecified in the report are carried out to, or affecting the subject tree(s), whichever is the sooner.
13. Any trees referred to in this report should be re-inspected further to storms or extreme weather conditions due to the potential for deterioration in tree condition/situation.
14. All trees referred to in this report are assessed in the situation and site usage as seen on the day of inspection.
The client should inform the consultant of any foreseeable changes/variations prior to the site visit.
15. Any verbal information given by the Consultant prior to the Clients receipt of the written report shall not be construed as a representation or warranty and should not be relied or acted upon.
16. Any claim by the Client which is based on any defect in the nature or quality of the Consultants services shall be notified to the Consultant within 7 days from the date of supply.
17. Except in respect of death or personal injury caused by the Consultants negligence, the Consultant shall not be liable to the Client by reason of any representation, or implied warranty, condition or other term, or any duty at common law, or under the express terms of any contract, for any consequential loss or damage (whether for loss of profit or otherwise), costs, expenses or other claims for consequential compensation whatsoever (and whether caused by the negligence of the Consultant his employees or agents or otherwise) which arise out of or in connection with the Consultant's services, except as expressly provided in these conditions.
18. The Consultant shall not be liable to the Client or be deemed to be in breach of the contract by reason of any delay in performing, or any failure to perform any of the Consultants obligations in relation to the services he renders.
19. The identification of fungi, insects or tree disorders are based on field observations and do not include a laboratory analysis (unless requested).
20. The contract between the Client and the Consultant shall be governed by the laws of England.