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Tree Survey

Trees at
Broadoak Hotel. Copse Lane, Hayling Island.
Hampshire. PO11 0QB

Prepared for
Mr R. Hartrick.
June 2010

ARBORTECH (Consultancy)

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

Tel/Fax 01243 574544
E mail : arbortechconsultancy@vodafoneemail.co.uk

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Informative : Retained Trees & Development Sites.

TREES NEED ROOTS FOR :

- Anchorage i.e Stability.
- Water and nutrient uptake i.e general health.
- Energy storage i.e for drought periods.
- Breathing i.e Vertical gaseous exchange

DAMAGING TREE ROOTS MAY :

- Kill the tree.
- Weaken the tree.
- May cause the tree to fail.

TREE ROOTS CAN BE DAMAGED BY :

(Any may deny their needs for survival)

- Root severance
- Soil compaction.
- Escape of toxic fluids i.e Oil, Bitumen.
- Impermeable surfaces i.e Concrete

Tree Survey.

A Tree Survey records information about the trees on (or adjacent) a site, independently of any design proposal. Trees, groups of trees and woodlands are assessed for their physiological and structural condition and preliminary Health & Safety works are recommended. In addition the trees are categorised for their quality and value within the existing context. The tree categories are then differentiated on a tree survey plan.

The results of the Tree Survey may be included in the preparation of a Tree Constraints Plan which should be used to assist with layout design.

Arboricultural Impact Assessment.

Further to a tree survey, consideration is given to how a proposed development and retained trees will co-exist and interact in the present and future. It can identify and remove any potential conflicts between trees and the requirements of the development.

An AIA aims to identify, evaluate and mitigate the direct and indirect impacts on retained trees, that may arise as a result of the implementation of the layout proposal.

Arboricultural Method Statement for Protection of Trees during Construction.

This is a statement which is used to describe how construction works can be carried out close to trees and how the above and below ground parts of the trees will be adequately protected during this process.

Works are carried out in accordance with British Standard 5837:2005 *Trees in relation to construction – Recommendations* and good arboricultural practice.

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1 INTRODUCTION

Client : Mr R. Hartrick.

Ref No : Hart/ ATSurv / 6710

Site Details : Broadoak Hotel. Copse Lane, Hayling Island.

Date of site visit : 21st and 22nd June 2010.

1.1 Instruction.
I have been instructed by Mr Hartrick to prepare an arboricultural report to include:

- Tree Survey in accordance with British Standard 5837 : 2005 Trees in relation to Construction – Recommendations.

1.2 Documents provided :
Ivon Blumer Architects provided me with :
- Site Survey Plan.
- Proposed Site Layout Drawing No: 1BA/306/02.
- Tree Preservation Order No 1170 dated 27th September 1983 – *See Appendix 5 for TPO Plan.*

1.3 Scope of the report.
- This report includes a preliminary visual tree assessment (VTA) from ground level, based on the site visit and the information provided, listed in 1.2 above.
- All observations were undertaken from ground level.
- All dimensions are estimated.
- No detailed investigations have been undertaken.
- This report is reliant on plans provided. Where the location of trees (not shown on the plans) have been added, the accuracy of their location cannot be guaranteed.
- At the time of the site visit, visibility of crown structure was restricted due to trees being in leaf.
- Only trees over 150mm in diameter (at 1.5m in height) have been included within the report.
- Terms and Conditions Apply

1.4 Limitations of use and copyright: As set out at front of report.

1.5 Qualifications and experience : I have based this report on my site observations and the information provided, and I have come to conclusions in the light of my experience. I have experience and qualifications in arboriculture and list the details in Appendix 6.

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2 TREE SURVEY

2.1 Identification and location of the trees :

The trees can be identified on the Tree Survey Plans at Appendix 2a and 2b.

2.2 **Tree observations:** I visually inspected the individual trees and recorded the information on the Tree Survey Schedule included as Appendix 1.

The Tree Survey Schedule and Plans should be read in conjunction with Appendix 3 *'Tree Survey Notes'.*

3. RECOMMENDATIONS

3.1 Tree work/Management Recommendations :

See Appendix 4 for Preliminary tree work/management in need of attention for Health and Safety purposes.

All retained trees should be inspected on a regular basis by a qualified arboriculturist.

3.2 **Implementation of tree works :** The contractor should carry out all tree works to BS 3998 *Recommendations for Tree Work (*1989) as modified by research that is more recent.

The arborist undertaking the tree works should be instructed to advise if they notice any further defects other than those identified at Appendix 1. Further assessment of those situations will then be required.

4 OTHER CONSIDERATIONS

4.1 Trees subject to statutory controls.

Consultation with the Local Planning Authority will be required prior to any pruning works (other than certain exemptions) to trees covered by a tree preservation order or located in a conservation area.

4.2 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.

4.3 Wildlife.

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

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It would be prudent to undertake a Bat survey prior to carrying out any works to trees with significant cavities and to avoid works at times when birds are likely to be nesting.

4.4 **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 to the boundary line without the permission of the owners. However, the material belongs to the tree owner and the same guidance on statutory controls apply.

5 BIBLIOGRAPHY / REFERENCES

- British Standard 5837 *'Trees in relation to construction - Recommendations'* 2005
- British Standard 3998 *'Recommendations for Tree Work'* (1989)
- Occupiers Liability Act 1957 & 1984
- Town & Country Planning Act 1990
- Wildlife & Countryside Act 1981
- CRoW Act 2000

Report Authorisation.

Signed..... **Print**.....

Date.....

APPENDIX 1
Tree Survey

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 1	Oak *Quercus robur*	17	910	N 4 S 7 E 6 W 7	5	M	Good	Fair	20	B/C

Observations :

- Located adjacent entrance
- Main stem divides at 5m
- Large pruning wounds and storm damage with decay in crown.
- Significant deadwood in crown.
- Undergone previous crown reduction
- Epicormic growth throughout crown.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 2	Oak	17	670	N 3 S 8 E 4 W 4	5	M	Good	Tree Structure not visible	20	Provisional B

Observations :

- Previously growing on a bank, hence stilt rooted.
- Extensive Ivy extending from base into upper crown
- Some significant deadwood in crown.
- Cavity (site of stem(s) fusion) at1.5m
- Bifurcated main stem in central crown
- Slight stem lean to south East 'Buldged growth'
- Minor deadwood in crown.

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 3	Corsican Pine *Pinus nigra var.maritima*	18	610	N 3 S 6 E 3 W 3	>10	M	Good	Appears Good	20	B

Observations :

- Ivy extending into crown
- Single stem with slight lean to South East
- Minor deadwood in crown.
- Slight swelling on lower stem to North West.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 4	Holly *Ilex aquifolium*	7	150	N 2 S 2.5 E 2.5 W 2.5	1	M	Fair	Fair	10	C

Observations :

- Single upright stem with kink at 1200mm
- Basal growth
- Main stem bifurcates at 3m

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 5	Oak	13	300	N 2 S 5 E 5 W 3	3.5	S/M	Fair	Fair	10	C

Observations :

- Growing on bank
- Suppressed tree
- Undergrowth at base obscuring inspection.
- Minor deadwood in crown
- Epicormic growth thoughout.

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 6	Corsican Pine	18	560	N 7 S 1 E 6 W 0	>10	M	Fair	Appears Fair	10	Provisional C

Observations :

- Ivy extending into mid crown also undergrowth a base obscuring visibility.
- Main stem bifurcates at 8m (both stems lean to East)

T 7	Oak	14	560	N 5.5 S 5 E 2 W 6	8	M	Poor	Poor	<10	C/R

Observations :

- Single upright stem with pronounced buttress roots
- Significant deadwood in crown
- Crown dieback

T 8	Oak	17	800	N 9 S 9 E 10 W 9	7	M	Fair	Appears Fair	20	Provisional B

Observations :

- Located in South East corner of site.
- Ivy extending into crown
- Pronounced buttress roots- surface roots to East & West along bank.
- Significant deadwood in crown
- Spreading crown
- Storm damage evident in crown.

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 9	Bay *Laurus nobilis*	12	390 at Base	N 5 S 2.5 E 2 W 3	0	M	Fair	Fair	10	C

Observations :

- Basal growth
- Main stem bifurcated with further stem to North West.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 10	Oak	12	680	N 5 S 5 E 7 W 5	4	M	Fair/Poor	Appears Fair	10	C

Observations :

- Extensive ivy into upper crown obscuring visibility
- Large limb arising at 4m to East
- Minor deadwood in crown.
- Storm damage in point of crown
- Crown sparse.
- BT cable passing through lower crown to south

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 11	Bay	9	220	N 3 S 2 E 2 W 3	0	M	Fair/Poor	Appears Fair	10	C

Observations :

- Located at corner of house
- Basal growth
- Main stem to East

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 12	Holly (Group of 4)	9	180 (maximum)	N - S 8 E - W 6	1.5	M	Fair	Fair	10	C

Observations :

T13	Ash *Fraxinus excelsior*	17	360	N 0 S 6 E 4 W 2	1	M	Good	Poor	<10	R

Observations :

- Ivy extending into mid crown
- Single stem with 75° angle in stem at 1.5m extending to South
- Growth arising along stem to height of 17m.

T14	Ash	16	310	N 3 S 5 E 3 W 3	6	M	Good	Appears Fair	10	C

Observations :

- Extensive Ivy extending into upper crown
- Basal growth

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 15	Pear *Prunus spp*	8	200	N 2.5 S 2 E 0 W 4	2	M	Fair	Poor	-	R
Observations : • Extensive ivy into crown. • Main stem appears dead.										
T 16	Ash	16	360	N 6 S 5 E 2 W 5	4	M	Fair	Fair/Poor	10	C
Observations : • Extensive ivy into mid crown • Open bifurcation of main stem at 4m. • End weighted branches in crown										
T 17	Holly	9	200	N - S 6 E - W 4	2	S/M	Fair	Fair	10	C
Observations : • Multi stemmed from base (3 stems)										

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 18	Ash	16	450 at Base	N 4.5 S 7 E 5 W 6	3	M	Good	Poor	<10	C/R
Observations : • Co-dominant stems from 400mm with tight compression union.										
T 19	Ash	15	170	N 1 S 5 E 5 W 1	8	J	Good	Fair	10	C
Observations : • Swept stem to South East over neighbouring property • Asymmetric crown weighted to South & East.										
T 20	Ash	17	520 At base	N 2 S 5 E 2 W 4	>6	M	Fair	Poor	<10	C/R
Observations : • Poor conformation • Bifurcated from base.										

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 21	Holly	10	180	N 2 S 2 E 1 W 2	2.5	SM	Fair	Fair	10	C
Observations : • Ivy extending into crown.										
T 22	Ash	18	290	N 3 S 4 E 4 W 2	>5	SM	Good	Good	10	C
Observations : • Single stem with lower stem lean to East.										
T 23	Holly	6	160	N 3 S 0 E 3 W 1	3	M	Poor	Fair	-	R
Observations : • Single upright stem. • Asymmetric crown.										

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 24	Ash	14	300	N 3 S 5 E 6 W 4	3	SM	Good	Fair	10	C
Observations : • Single stem which bifurcates from 3m.										
T 25	Holly	6	160	N 0 S 4 E 4 W 1	3	M	Fair/Poor	Fair	10	C
Observations : • Single stem with slight lean to East.										
T 26	Holly	6	230	N 2 S 2 E 4 W 2	3	M	Fair/Poor	Fair	10	C
Observations : • Single upright stem. • Minor deadwood in crown.										
T27	Holly	7	210	N 3 S 1 E 3 W 3	2	M	Fair	Fair	10	C
Observations : • Dominant stem to South with sub-stem to North. • Basal growth.										

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 28	Oak	14	760	N 6 S 7 E 8 W 9	6	M	Good	Fair	20	B/C

Observations :

- Single upright stem
- Pronounced buttress roots.
- Open cavity area to North West with longitudinal depression extending up from this point
- Storm damage in crown - decayed tear/wounds evident.
- Minor deadwood in crown

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 29	Oak	17	1050	N 5 S 10 E 9 W 6	4.5	M	Good	Fair	20	B

Observations :

- Single upright stem
- Pronounced buttress roots
- Heavy bifurcation of main stem at 4.5m
- Storm damage – decayed tear/wounds evident.
- Minor deadwood in crown.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 30	Holly	&	150	N 2 S 3 E 3 W 3	3	S/M	Fair	Good	10	C

Observations :

- Swept mid stem.

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 31	Holly	7	170	N 3 S 2.5 E 2 W 3	3	M	Fair	Good	>10	B/C

Observations :

- Single upright stem
- Basal growth.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 32	Oak	16	80	N 7 S 7 E 5 W 8	4	M	Good	Fair	20	B

Observations :

- Single stem with slight lean to North East
- Storm damage evident in crown
- Minor deadwood

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 33	Holly	7	150	N 1.5 S 3 E 2 W 2	2	M	Fair	Fair	10	C

Observations :

- Single swept stem to West.

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 34	Pear *Prunus spp*	17	270	N 3 S 3 E 3 W 1.5	4	M	Good	Fair	10	C

Observations :

- 2 small cavities near base to West
- Single stem with slight lean to East
- Main stem bifurcates at 3m with sub-dominant stem to East

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 35	Cherry *Prunus avium*	10	200	N 1 S 5 E 2 W 3	4	J	Good	Fair	10	C

Observations :

- Suppressed tree

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 36	Cherry	11	200	N 2 S 6 E 4 W 4	5	J	Good	Fair	10	C

Observations :

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 37	Oak	14	490	N 0 S 5 E 3 W 5	3.5	M	Poor	Poor	-	R2

Observations :

- Tree has conservation value.
- Single stem.
- Woodpecker hole at 2.5m to South West
- Further cavity at 3m to South.
- Storm damage to North with significant pruning wounds with decay
- Significant dead limb extending to South

T 38	Cherry	11	230	N 3 S 3 E 5.5 W 1	6	S/M	Fair/Poor	Poor	-	R

Observations :

- Extensive covered in ivy into upper crown
- Single stem with lower stem lean to East
- Large decayed canker extending up from 2m -= Extensively decayed.

T 39	Ash	21	750	N 3 S 7 E 8 W 8	5	M	Fair	(See Recommendation)	>10? provisional	B/C provisional

Observations :

- Crown dieback to East & South with significant deadwood in crown.
- Large cavity at 4m to South and opposing cavity to North West @ 4m
- Over-extending limb to South West.
- Degraded '*Innonotus hispidus*' fungi found beneath the tree.

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T. 40	Ash	21	700	N 3 S 4 E 12 W 6	6	M	Good	Fair	20	B

Observations :

- Growing on low bank
- Single upright stem
- Some decay at base to North, at site of sub-stem removal.
- Helical growth of lower stem.
- Decayed wound at 6m to North
- Very extending crown to East
- Storm damage in upper crown
- Significant deadwood in crown.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 41	Ash	21	680	N 9 S 2 E 13 W 7	10	M	Good	Fair	20	B

Observations :

- Growing on low bank
- Exposed surface root to South East.
- Single stem leaning to North East which bifurcates from 8m with sub-dominant stem to South.
- Cavity at 6m to North East
- Crown mainly extending to North East

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 42	Oak	20	950	N 7 S 7 E 12 W 10	8	M	Good	Good	>20	A/B

Observations :

- Ivy extending into mid crown
  Main stem trifurcates at 5m.
- Epicormic growth throughout crown
- Significant deadwood in crown

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 43	Oak	22	1200	N 8 S 8 E 11 W 11	6	M	Good	Good	40	A

Observations :

- Growing on bank
- Wound at base to East
- Significant deadwood in crown.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 43a	Cherry	4	200	N S E W					-	R

Observations :

- Dead

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 44	*Cherry* *Prunus avium*	12	290	N 2 S 4 E 10 W 1	4	M	Good	Poor	-	R

Observations :

- Ivy on stem extending into upper crown
- Single stem with marked lean to East

T 45	Oak	12	420	N 6 S 1.5 E 5.5 W 9	3	M	Good	Poor	10	C

Observations :

- Growing on bank
- Cavities evident at base - Decayed roots evident to North
- 2 sub stems removed at base to North and South
- Crown extends mainly to West, caused by group pressure.
- Significant deadwood in crown

T 46	Oak	13	500	N 7 S 1 E 6 W 7	2	M	Good	Fair	10	C

Observations :

- Base obscured to West
- Single stem with lean to North
- Significant deadwood in crown

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Tree	Species	Height @1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 47	Sycamore *Acer psudoplatanus*	15	380	N 5 S 1 E 6 W 5	9	M	Fair	Poor	<10	C/R

Observations :

- Large wound at base – estimate 45% of circumference.
- Extensive Ivy into upper crown
- 45° bend in stem to North East at 3m

Tree	Species	Height @1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 48	Field Maple *Acer campestre*	9	330	N 3 S 2 E 3.5 W 1	3	M	Fair	Fair	10	C

Observations :

- Growing on a bank.
- Cavity evident at base.
- Large wound on lower stem to South West.
- Epicormic growth throughout crown.
- Storm damage in crown with decay evident.

Tree	Species	Height @1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 49	Ash	17	1000 At base	N 10 S 6 E 7 W 7	4	M	Fair/Poor	Fair/Poor	10	C

Observations :

- Main stem bifurcates from 1m – Dead sub-stem at base to South.
- Extensive wounding at base to East and cavity at base to South West.
- Crown dieback with significant deadwood in crown.

South stem : Overextending limb to South arising at 3m. Decayed stem stub at 3m.
North stem : Extensively covered in Ivy. Significant lean to North.

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 50	Field Maple	9	300	N 4 S 3 E 3 W 2	1.5	M	Fair	Fair	10	C

Observations :

- Basal growth.
- Large wound at base to South.
- Stem lean to East from 2m.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 51	Oak	21	750	N 6 S 8 E 11 W 9	3	M	Good	Good	>20	A/B

Observations :

- Ivy extending into upper crown.
- Single stem with heavy co-dominant bifurcation at 5.5m.
- Some storm damage evident in crown.
- Epicormic growth throughout.
- Significant deadwood in crown.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 52	Oak	19	440	N 5 S 3 E 4.5 W 7	3.5	M	Good	Good	20	B

Observations :

- Single upright stem.
- Significant deadwood in crown.
- Small crown caused by group pressure.

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 53	Oak	17	570	N 7 S 4 E 6 W 8	8	M	Good	Fair	20	B

Observations :

- Single upright stem.
- Wound at base to North – good callus growth.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 54	Field Maple	9	310	N 4 S 4 E 5 W 2	2	M	Fair/Poor	Fair	10	C

Observations :

- Single upright stem.
- Exposed surface roots to South with decay.
- Epicormic growth throughout.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 55	4 x Leylandii	9	300 maximum	N - S 9.5 E – W 6	1.5	M	Good	Fair	10	C

Observations :

-

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 56	Oak	8	300	N 1 S 5 E 4 W 2	4	SM	Good	Good	>10	B/C

Observations :

- Ivy extending into upper crown.
- Single upright stem.
- Adjacent tree in contact with stem at base to West causing abrasion wound.
- Asymmetric crown extending to South.
- Minor deadwood in crown.

T 57	Dead	15	660	N S E W					-	R

Observations : Dead

T 58	Oak	13.5	450	N 5 S 7 E 5.5 W 5.5	3	M	Good	Fair	20	B

Observations :

- Single stem with slight lean to South.
- Wound at base to North.
- Exposed surface root adjacent stem to North.

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 59	Oak Located within adjacent property.	18	500	N 6 S 7 E 5 W 5	6	M	Fair	See observations	20 Provisional	B Provisional
Observations : • Extensive Ivy extending into upper crown obscuring visibility. • Minor deadwood in crown.										
T 60	Oak	14	530	N 5 S 4 E 7 W 7	3	M	Good	Good	>20	A/B
Observations : • Single upright stem with co-dominant bifurcation at 2.2m.										
T 61	Oak	17	650	N 5.5 S 6.5 E 8.5 W 5	5	M	Fair	Good	>20	A/B
Observations : • Single upright stem with heavy co-dominant bifurcation at 2.5m. • Ivy extending from base to mid stem obscuring visibility. • Significant deadwood in crown.										

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 62	Oak	8	280	N 2.5 S 2 E 7 W 1	4	J	Fair	Fair	10	C

Observations :

- Suppressed tree.
- Significant deadwood in crown.
- Epicomic growth throughout crown.

T 63	Oak	17	630	N 4.5 S 5 E 6 W 6.5	5	M	Good	Good	40	A

Observations :

- Single upright stem.
- Some bank erosion at base to East.
- Epicormic growth throughout crown.

T 64	Oak	17	700	N 5 S 7 E 8 W 5.5	5	M	Fair	Fair	10	C

Observations :

- Single stem with significant stem failure at 3m – cavity evident but obscured by Ivy.
- Ivy extending into lower crown.
- Some bank erosion to East with exposed roots.
- Point of crown slightly sparse.
- Significant deadwood in crown.
- Epicormic growth throughout.

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 65	Oak	15	520	N 4 S 6 E 7 W 6	4	M	Fair	Fair	>10	B/C

Observations :

- Single stem which trifurcates at 4m.
- Significant deadwood in crown.
- Epicormic growth throughout crown.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 66	Macrocarpa	19	1040	N 6 S 7 E 8.5 W 6.5	4	M	Fair/Poor	Fair/Poor	10	C

Observations :

- Single stem with tight bifurcation at 4m.
- Ivy extending from base to lower stem obscuring visibility.
- Significant deadwood hanging in crown.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 67	Oak	17	500	N 4.5 S 4.5 E 7 W 6	6	M	Good	Good	>20	A/B

Observations :

- Extensive undergrowth at base restricting access.
- Single stem/
- Significant deadwood in crown.

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 68	Oak	15	450	N 3 S 4.5 E 3 W 5.5	8	M	Poor	Fair	10	C2

Observations :

- Single upright stem.
- Main stem bifurcates in upper crown.
- Significant deadwood in crown.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 69	Macrocarpa	19	1400	N 4.5 S 5 E 5 W 5	8	M	Fair	Poor	<10	R

Observations :

- Single stem with tall dead stem stub at base to North with decay.
- Tree previously bifurcated from approximately 500mm – tight compression union.
- Combined canopy with T70.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 70	Macrocarpa	19	870	N 3 S 6.5 E 8 W 7	5	M	Fair/Poor	Fair	10	C

Observations :

- Tree suppressed by T69 to North.
- Open cavity at base to North East – no decay evident.
- Single stem with lean to South.
- Significant deadwood hung-up on crown.

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 71	Oak	16	320	N 0 S 7 E 6 W 6	4	SM	Fair	Fair	10	C

Observations :

- Tree suppressed by T70

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 72	Macrocarpa	19	1120	N 4.5 S 4 E 4 W 6.5	4	M	Fair	Poor	10	C

Observations :

- Main stem bifurcates at 1.5m
- Large limb failure occurred in crown to East.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 73	Field Maple	8	540	N 4 S 4.5 E 6.5 W 7	3	M	Fair	Appears Fair	10	C

Observations :

- Extensive Ivy into upper crown obscuring visibility.
- Minor deadwood in crown.

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 74	Weeping Willow *Salix spp*	7	310	N 4.5 S 4.5 E 4 W 3	2	SM	Good	Good	10	C
Observations :										
T 75	2 x Field Maple	8 maximum	800 At base	N 4 S 7 E 35.5 W 12 Combined	3	M	Fair	Obscured by Ivy	Provisional 10	Provisional C
Observations : • Extensive Ivy obscures visibility. • Appears that there are 2 stems.										
T 76	Macrocarpa	6	200	N 4 S 2.5 E 3.5 W 2.5	2.5	J	Fair	Fair	10	C
Observations : • Extensive Ivy and undergrowth at base. • Single upright stem. • Crown encroaching upon building to North East.										

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 77	Oak Located in adjacent property to West.	15	1700 At base	N – S 11 E – W 12.5	4	M	Fair	Fair	10	C

Observations :

- Extensive Ivy obscuring visibility of stem to North.
- Two stems from base.
- Obscured by other trees.
- South stem : Crack evident in limb to North East, possibly previously undergone partial failure.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 78	Ash	14	360	N 5.5 S 3 E 5 W 3.5	2	SM	Fair	Fair	10	C

Observations :

- Ivy extending from base into mid crown.
- Single stem with large branch arising at 1200mm.
- Pruning wound to South at 1200mm.

Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 79	Oak	16	920	N 9 S 8 E 7 W 7.5	4	M	Good	Good	20	A/B

Observations :

- Single stem becoming multi-stemmed at 2m – four x heavy stems.
- Storm damaged in crown.
- Significant deadwood in crown.
- Trailing crown.
- Minor crown dieback.

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Tree	Species	Height @ 1.5m (m)	Stem diam (mm)	Branch spread (m)	Height of crown clearance	Age Class	Physiological Condition	Structural condition	Est Rem years	CAT
T 80	Corsican Pine	16	630	N 1.5 S 3 E 2 W 4	>10	M	Fair	Fair	10	C

Observations :

- Single upright stem.
- Significant deadwood in crown.
- 2 x hanging branches

T 81	Oak	15	980	N 6 S 6 E 6 W 6	4	M	Good	Appears Fair	>10	B/C

Observations :

- Cavity with decay evident at base to East.
- Ring bulge at 500mm
- Ring bulge on dominant stem at 5m.
- Storm damage in crown – some decayed wounds.
- Fully occluded wound at 5m to East.

T 82	Oak	15	700	N 7 S 7 E 10 W 6	5	M	Poor	Appears Fair	10	C

Observations :

- Single stem with lean to South East – bifurcates at 3.5m.
- Crown dieback – significant deadwood over road.
- Epicormic growth throughout.

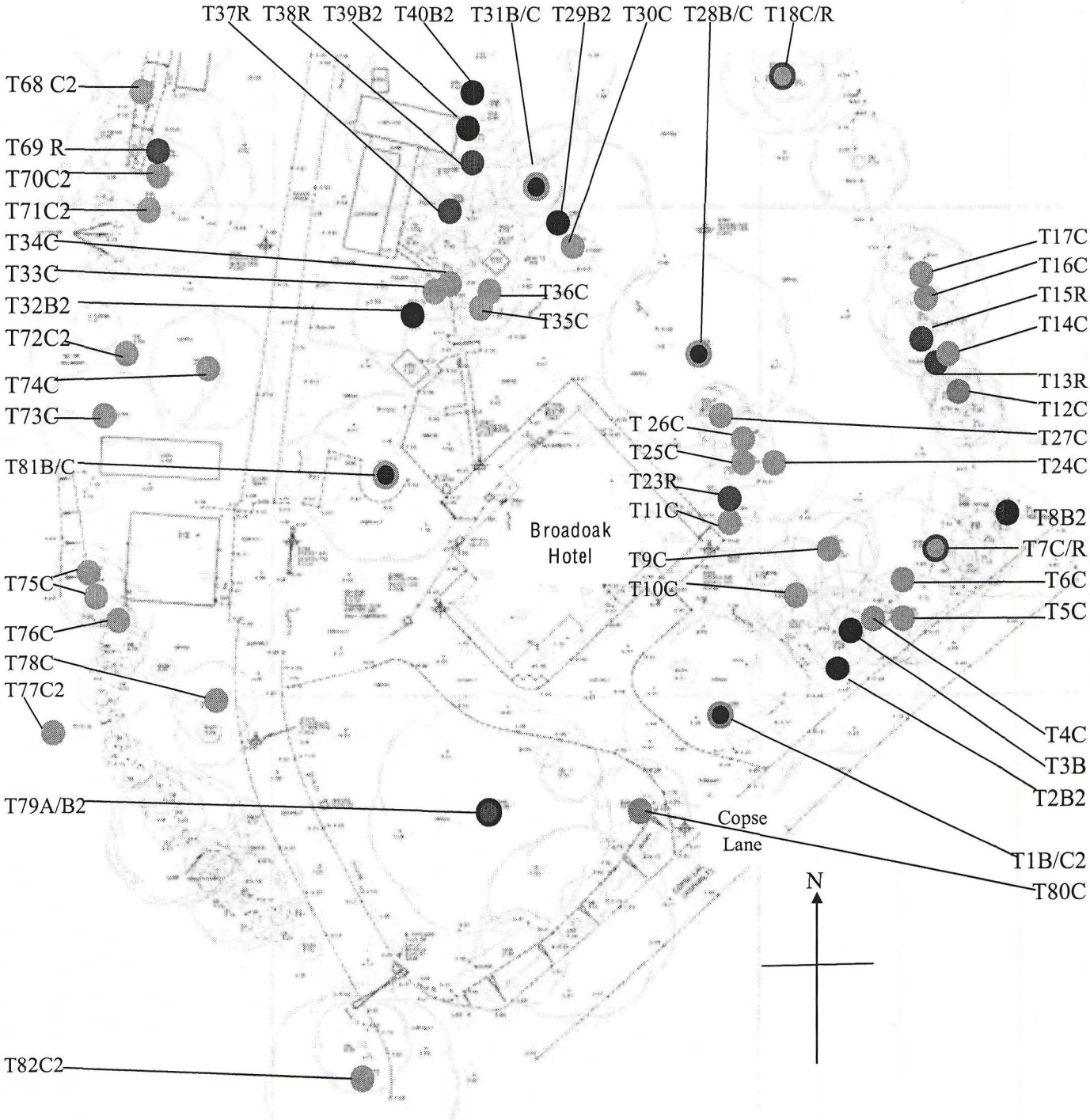
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APPENDIX 2a

Tree Survey Plan – South

To be read in conjunction with Tree Survey Notes



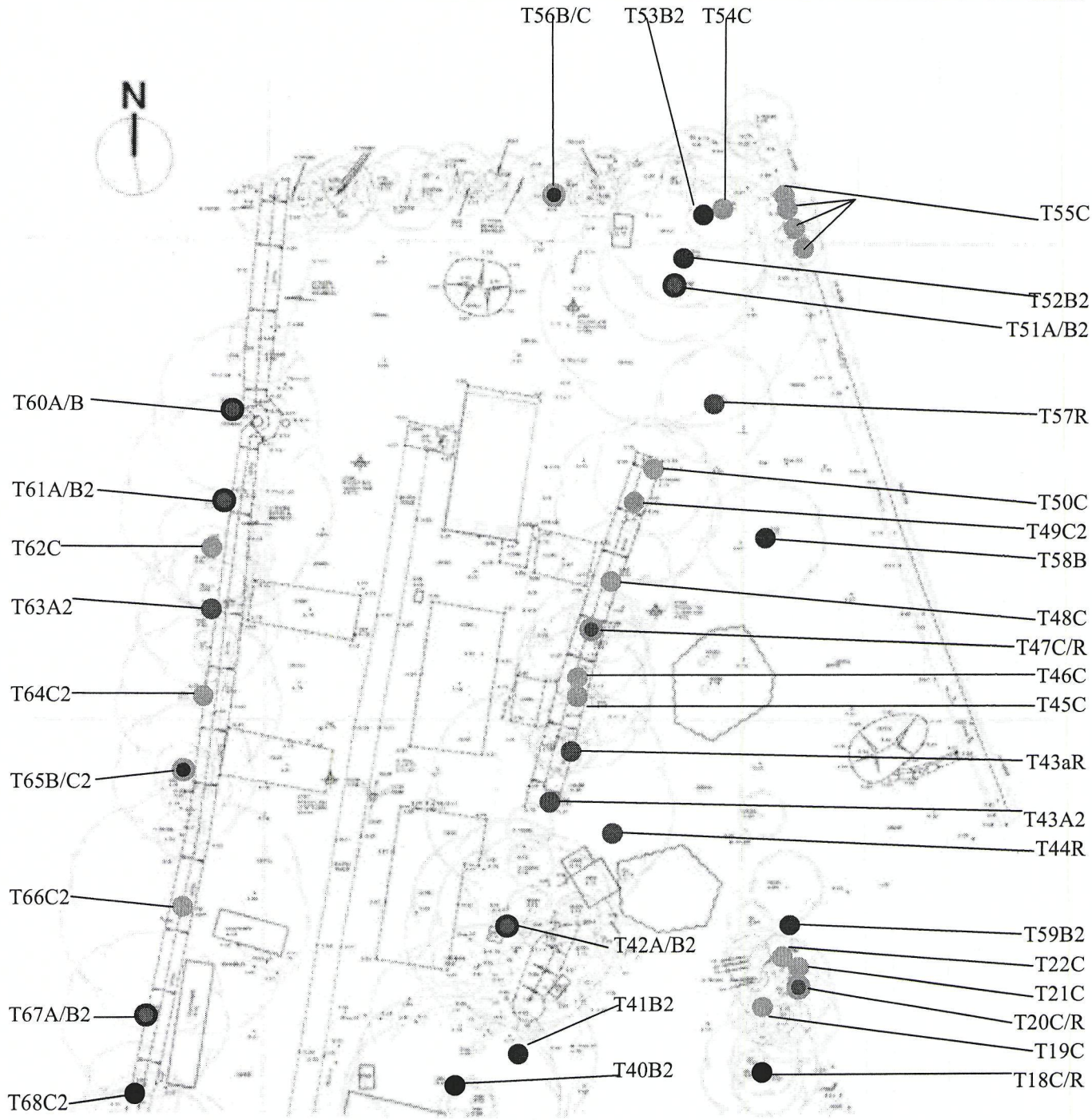
Plan not to scale. For illustration purposes only.

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APPENDIX 2b

Tree Survey Plan – North

To be read in conjunction wit Tree Survey Notes



Plan not to scale. For illustration purposes only.

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APPENDIX 3.

Tree Survey Notes

GENERAL TREE SURVEY NOTES.

- The pre-development site survey is based on guidelines set out in British Standard 5837 : 2005 and good arboricultural practice.
- 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 at basal flare if stem divides below 1.5m.
- 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
M - Mature tree
OM - Over mature

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 and value making/to make a sustainable contribution.

B (BLUE) Trees of moderate quality and value making/to make a significant contribution.

C (GREY) Trees of low quality in adequate condition until new planting established.

R (RED) In current context could be removed.

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.

A Tree Survey is primarily a data collection exercise and assessment of general tree condition at the time of surveying. It consists of a visual tree assessment from ground level. It should highlight any obviously visible signs of ill health or major defects. It is not an individual tree inspection or schedule of works, but should act as a guide for work which might be undertaken.

APPENDIX 4
Preliminary (Health and Safety) Tree Work Recommendations (Existing Site Context).

Target = Possible 'risk' zone of impact should any failure occur (tree falling distance in any direction).
The existing target of trees along the roadside or within falling distance of people or properties is potentially medium to high risk.

General Recommendations :

- Remove significant deadwood (trees or tree parts) : trees located within falling distance of a medium to high risk target.
- See also Section 4. Other Considerations.
- Remainder of trees (not listed) : No Action, in current site context.
- Tree Work Recommendations should be reviewed upon a change of land use and intensity of use on this site.

Tree Reference Number	Individual Tree Work Recommendations
T2, T6, T10, T15, T16, T47, T66	• Sever and Remove Ivy (*taking care not to cut into tree parts)* to allow for more thorough tree inspection – During dormant season.
T7, T37, T39, T49, T64, T69	• Further more detailed tree inspection required, to ascertain structural integrity of tree.

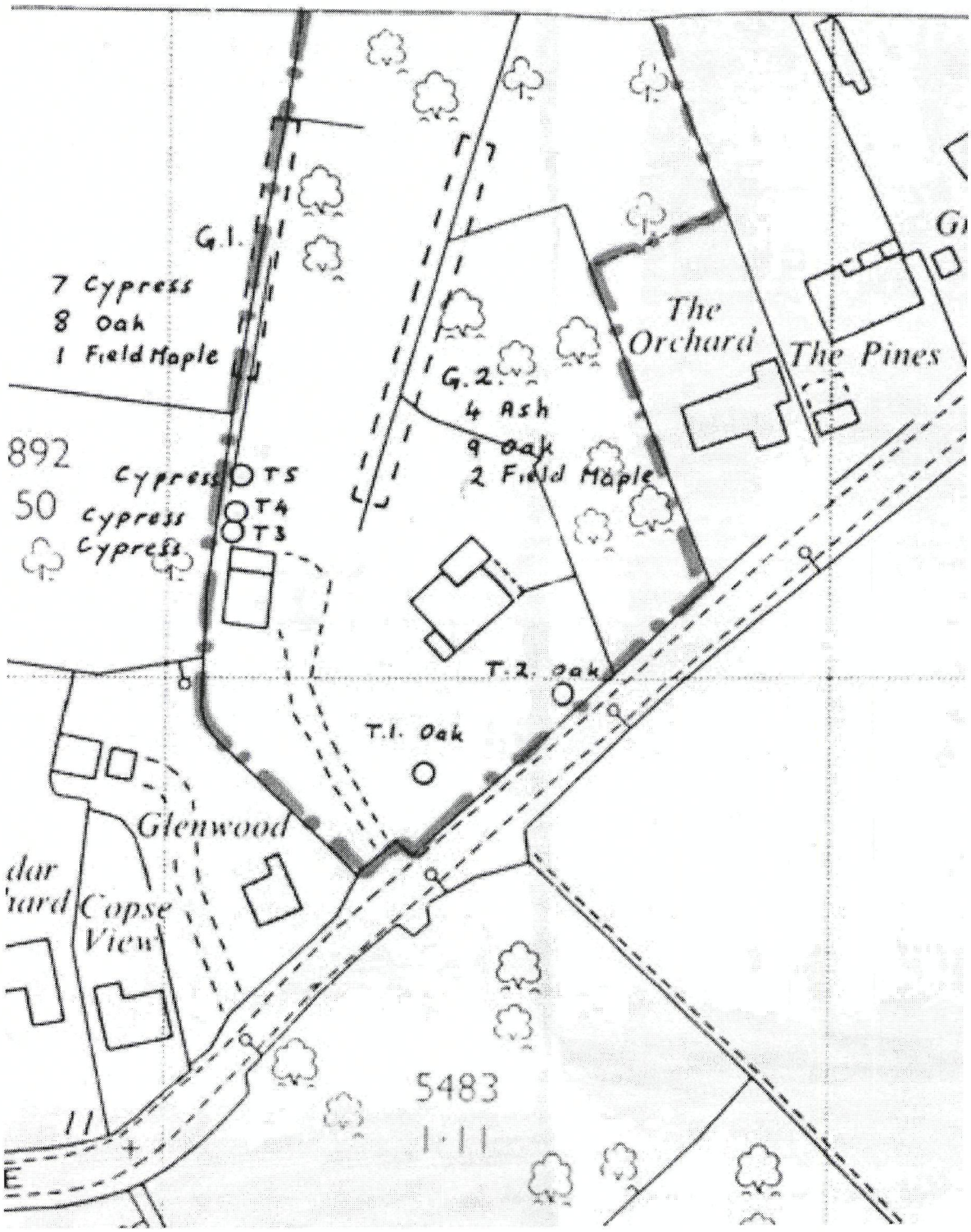
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APPENDIX 5

Tree Preservation Order Plan

TPO No 1170. Dated 27th September 1983



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APPENDIX 6

QUALIFICATIONS and EXPERIENCE.

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 2.
Natural England Bat Licence holder-2010/11.

Arboricultural Consultant to :
Bedales School
Biggin Hill Airport
Chichester District Council
Chichester Cathedral.
Chichester City Council
Douglas Briggs Partnership. Architects & Town/Country Planning Consultants.
Goodwood Estate
Halburn Ecological Consultants.
Mansell Construction.
Martlet Homes Housing Association.
John Mowlem & Company PLC.....

Members of : The Arboricultural Association.

Continuing Professional Development :
We are informed of up-dated techniques in Arboriculture and regularly attend training courses to further our professional development.

Insurance cover :

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

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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 reassessment 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 he 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 personeg. 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 nt 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 wll 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 whetherphysical, 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 fom 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 soonr.

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 inperforming, 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 laboratoryanalysis (unless requested).

20. The contract between the Client and the Consultant shall be governed by the laws of England.

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ARBORTECH (Consultancy)

ARBORICULTURAL ADVISORY SERVICE

TEL : 01243 574544

E mail : arbortechconsultancy@vodafoneemail.co.uk

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