



ARBORICULTURAL METHOD STATEMENT

Orchard House, Orchard Lane, Itchenor

*-prepared on behalf of **Roberts & Tregear** –*

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1.0 INTRODUCTION & CLIENTS BRIEF

- 1.1 I am instructed on this project by **Roberts & Treguer** who act for the owners of **Orchard House The Street, Itchenor.**
- 1.2 The owner seeks to demolish the existing house and to construct a new detached and bespoke dwelling with ancillary buildings and fully landscaped gardens.
- 1.3 There are both on and off site trees which will need to be catered for and protected during the construction process.
- 1.4 I have been commissioned to prepare a report to satisfy the arboricultural aspects of this project to meet planning requirements.
- 1.5 My work is to be compiled in accordance with the recommendations contained within BS5837:2012.

2.0 DOCUMENT DISCLOSURE STATEMENT

I have been provided with a copy of the Planning Layout drawings as prepared by **Michaelis Boyd Associates** :-

Site Plan Proposed – 21032-100 – P2 - 1:250 @ A1 – 21.01.22.

Marian Boswall- Landscape Plan- 21160_250 – Rev A – 1:250 @ A1 – 28/10/22.

- These drawings have been provided to me for the purposes of my work and I rely totally on their accuracy in terms of tree location; applying crown spreads and setting out protective fencing and tree protection measures.

3.0 TREE SURVEY & ROOT PROTECTION SCHEDULES & IMPACT ASSESSMENT

3.1 I visited the site on **2nd March 2021** and carried out a tree survey exercise in accordance with BS5837:2012 recommendations (see also the explanatory tree survey notes [at appendix BH1](#)).

Tree No.	Species	Ht m	Diam mm	Brch Sprd m	GC m	LS	Comments	Preliminary Management Recommendations	Rem Con yrs	Cat
Shelt 1	Leyland Cypress <i>Cupressocyparis leylandii</i>	Av 12	75 to 250	N 3 E 3 S 3 W3	0	SM	Crown shape dictated by group pressure-merged crowns-flat pruned on north and east faces up to 5m with a looser form in the upper reaches-linear belt of screening Conifers	No work required at time of survey	30-40	C2
1	Hawthorn <i>Crataegus monogyna</i>	8	270	N 0 E 0 S 2 W3	3	M	Ivy smothering base and trunk-suppressed by Limes-significant decay in trunk at 1.5m above ground level-poor quality tree	Advise fell and stump grind	<10	U
2	Broad Leaved Lime <i>Tilia platyphyllos</i>	20	720	N 7 E 8 S 7 W7	3	M	Multi stemmed at 2m above ground level-suckers-major deadwood and stubs-previously reduced and reshaped-good shape and form	Remove deadwood and stubs for safety reasons	>40	A1
3	Broad Leaved Lime <i>Tilia platyphyllos</i>	14	550	N 5 E 6 S 4 W6	2	M	Roots exposed and mower damaged-suckers-suppressed by Tree 2-previously reduced and reshaped-Woodpecker hole at 2m above ground level on south side into decay pocket resulting from old branch removal - a second Woodpecker hole exists at 4m above ground level on east side again into a decay pocket resulting from old branch removal	Advise keep at similar overall size in view of decay pockets	30-40	B1
4	Broad Leaved Lime <i>Tilia platyphyllos</i>	15	580	N 6 E 6 S 5 W6	3	M	Roots exposed-mower damaged-suckers-previously reduced and reshaped-good shape and form	No work required at time of survey	>40	A1
5	Flowering Cherry <i>Prunus avium</i>	10	450	N 3 E 4 S 6 W3	2	M	Ivy smothering base and trunk and dead ivy throughout crown-suppressed north by Tree 6-some dieback-small diameter deadwood -high crown lifted on west side-crudely pruned back from cables leaving stumps-bacterial weep points on trunk	No work required at time of survey	10-20	C1
6	Common Ash <i>Fraxinus excelsior</i>	16	300 270 250 250	N 7 E 5 S 5 W5	4	M	Multi stemmed 1m above ground level-tight forks with included bark-some dieback-small and large diameter deadwood-high crown lifted on west side-cankered branch work	Remove deadwood and stubs for safety reasons	20-30	C1
7	Chanticleer Pear <i>Pyrus chanticleer</i>	4	90	N 1 E 1 S 1 W1	1	Y	Suckers-good shape and form	Remove suckers	>40	A1

8	Holly <i>Ilex aquifolium</i>	4.5	170	N 2 E 2 S 2 W2	0	SM	Ivy smothering base, trunk and through crown-low crown density-low vigour and vitality	Remove ivy	20-30	C1
9	Bay Laurel <i>Laurus nobilis</i>	6	50 x 8	N 2 E 4 S 3 W1	0	EM	Multi stemmed at ground level-suppressed and dominated by Tree 10 Monterey Cypress-cables through crown-poor quality tree	Prune to clear route of cables	10-20	C1
10	Monterey Cypress <i>Cupressus macrocarpa</i>	12	750 #	N 0 E 5 S 6 W6	4	M	Unable to access off site tree-multi stemmed at 3m above ground level-tight forks with included bark-suppressed north by Tree 11-small diameter deadwood throughout-crown lifted to 4m-previously topped out and stunted	No work required at time of survey	10-20	C1
11	Monterey Cypress <i>Cupressus macrocarpa</i>	16	650 #	N 5 E 6 S 6 W5	4	M	Unable to access-off site tree-bifurcated at 2m- tight forks with included bark-small diameter deadwood throughout-crown lifted to 4m-previously reduced and reshaped	No work required at time of survey	30-40	B1
12	Pedunculate Oak <i>Quercus robur</i>	12	450 #	N 8 E 11 S 0 W5	3	EM	Unable to access-off site tree-low crown density-dieback-small diameter deadwood throughout-cables through lower crown-pruned back on west side-dominated by the Cypress and forced to present its crown to the east side almost entirely into Orchard House. Fencing abuts both sides of the trunk which leans east	Remove deadwood and stubs for safety reasons	10-20	C1
13	Western Red Cedar <i>Thuja plicata</i>	5	170 170	N 2 E 2 S 2 W2	0	Y	Bifurcated at ground level-previously heavily topped at 2.5m-poor quality tree	No work required at time of survey	10-20	C1
Group 1	Bay Laurels x 2 <i>Laurus nobilis</i>	4	60 x 6	N 2 E 2 S 2 W2	0	SM	Lower crown choked with brambles	Remove brambles	10-20	C2
Hedge 1	Leyland Cypress <i>Cupressocyparis leylandii</i>	3	100 to 150	N 0.5 E - S 1.5 W-	0	Y	Formal clipped hedge-flat topped	No work required at time of survey	20-30	C2
14	Pittosporum <i>Pittosporum tenuifolium</i>	5.5	240 160 120	N 5 E 3 S 3 W4	1	M	Ivy smothering base, trunk and through crown-low crown density	No work required at time of survey	20-30	B1
15	Pedunculate Oak <i>Quercus robur</i>	16	1500	N 12 E 15 S 13 W11	2	M	Small and large diameter deadwood-low branching habit-habitat value in old dead stubs with Woodpecker holes in them	Remove major deadwood for safety reasons but only if they are fragile/ loose	>40	A1

16	Weeping Silver Pear <i>Pyrus salicifolia</i> 'Pendula'	2.5	160	N 2 E 2 S 2 W2	0	SM	Good shape and form	No work required at time of survey	30-40	B1
17	Hawthorn <i>Crataegus monogyna</i>	2.5	100 30	N 1 E 1 S 1.5 W2	0	Y	Fair shape and form	No work required at time of survey	30-40	B1
18	Griselinia <i>Griselinia littoralis</i>	5	200 x 3 170 x 4	N 5 E 4 S 5 W6	0	M	Some dieback in the top-low branching habit-lower crown choked with bramble-otherwise of good shape and form	Remove deadwood and dieback to tidy	30-40	B1
Group 2	Holm Oak (<i>Quercus</i>) Elms (<i>Ulmus</i>) x 2	5	220 170	N 5 E 3 S 3 W5	2	SM	Multi stemmed at ground level- dieback-small diameter deadwood throughout-salt laden winds have caused dieback of foliage but it is on the front line facing the sea so this is to be expected -two Elm-saplings growing up through the south side	No work required at time of survey	>40	B2
Group 3	Hawthorn (<i>Crataegus</i>) Elm (<i>Ulmus</i>) Holm Oak (<i>Quercus</i>)	5	Av 100	N - E - S - W-	0	Y	Sapling Elm and Holm Oak growing up around a dead stump of Hawthorn	Consider removal and replacement planting	<10	U
Group 4	Pittosporum x 4 <i>Pittosporum tenuifolium</i>	6	Av 200 x 3	N 6 E 6 S 6 W6	0	M	Crown shape dictated by group pressures -merged crowns-small diameter deadwood throughout-salt laden winds have caused dieback of foliage but it is on the front line facing the sea so this is to be expected	No work required at time of survey	10-20	C2
Group 5	Leyland Cypress x2 <i>Cupressocyparis leylandii</i>	10	360 340	N 4 E 5 S 6 W6	0	SM	Crown shape dictated by group pressure-merged crowns-small diameter deadwood throughout	No work required at time of survey	10-20	C2
19	Pedunculate Oak <i>Quercus robur</i>	5	170	N 4 E 4 S 4 W4	2	Y	Arching trunk but otherwise good shape and form	No work required at time of survey	>40	A1
Group 6	Holm Oaks x 3 <i>Quercus robur</i>	3 to 5	150 70 60	N - E - S - W-	0	Y	Suppressed and dominated by the Oak	No work required at time of survey	10-20	C2
20	Pedunculate Oak <i>Quercus robur</i>	9	370 350 350	N 8 E 5 S 8 W8	1	SM	Multi stemmed at ground level-open splayed habit to crown-small and large diameter deadwood-low branching habit	No work required at time of survey	>40	B1

21	Holm Oak <i>Quercus robur</i>	7	350	N 7 E 7 S 7 W4	0	SM	Suppressed west side by Oak-small diameter deadwood throughout-low branching habit-salt laden winds have caused dieback of foliage but it is on the front line facing the sea so this is to be expected	No work required at time of survey	>40	B1
22	Domestic Apple <i>Malus domestica</i>	4	160	N 0 E 0 S 5 W0	1	SM	Ivy smothering base, trunk and through crown-severe lean south-poor quality tree	Advise fell	<10	U
23	Crab Apple <i>Malus spp.</i>	5	180 120 120 120	N 2 E 4 S 4 W4	1	EM	Ivy smothering base, trunk and choking crown-low branching habit	Sever ivy	30-40	B1
Group 7	Sycamores <i>(Acer) x2</i> Lime (<i>Tilia</i>)	9	Av 200	N 5 E 5 S 5 W5	1	Y	Crown shape dictated by group pressure-merged crowns-self sown saplings	Advise removal of Sycamores to benefit the Lime	<10 >40	U A1
24	Holm Oak <i>Quercus robur</i>	5	120 x 4	N 3 E 2 S 5 W2	0	Y	Multi stemmed at ground level-suppressed and dominated by the Cypress-salt laden winds have caused foliage dieback but it is on the front line facing the sea so it is to be expected	No work required at time of survey	10-20	C2
25	Monterey Cypress <i>Cupressus macrocarpa</i>	15	750	N 10 E 10 S 10 W10	2	M	Small and large diameter deadwood-storm damaged with broken branches and hangers above footpath	Remove storm damage and hangers-remove deadwood and stubs for safety reasons	30-40	B1
Copse 1	Sycamores <i>(Acer)</i> Elms (<i>Ulmus</i>)	Av 10	Av 150	N - E - S - W-	4	Y to SM	Off site trees-crown shapes dictated by group pressures-merged crowns-self seeded Sycamore saplings-some dead trees caused by Sooty Bark Disease <i>Cryptostroma</i> -some better semi mature trees around the edges of the Copse.	No work required at time of survey	10-20	C2
26	Flowering Cherry <i>Prunus avium</i>	4	130 90	N 3 E 3 S 4 W4	1	Y	Low branching habit	No work required at time of survey	20-30	C1
27	Viburnum <i>Viburnum tinus</i>	3.5	75 x 7	N 5 E 3 S 3 W3	0	M	Multi stemmed at ground level-crown weighted north-low branching habit	Remove brambles	20-30	B2
28	Hawthorn <i>Crataegus monogyna</i>	4	200 100 100	N 3 E 3 S 3 W3	1	M	Choked with brambles and Ivy	Sever ivy and remove brambles	30-40	B1

Group 8	Flowering Cherries x 4 <i>Prunus avium</i>	6	Av 200 #	N 4 E 4 S 4 W4	2	SM	Off site trees-unable to access-choked with brambles and Ivy and dense vegetation-ivy smothering base, trunk and through crown-crown shape dictated by group pressure-merged crowns	Advise sever ivy and remove Brambles	20-30	C2
29	Norway Spruce <i>Picea abies</i>	8	170 #	N 3 E 3 S 3 W3	3	Y	Unable to access due to dense vegetation and brambles-lower crown choked with ivy and brambles	Sever ivy and remove brambles	20-30	C1
30	Leyland Cypress <i>Cupressocyparis leylandii</i>	8	300 #	N - E 6 S - W-	0	Y	Unable to access due to dense vegetation and brambles-root plate lifted but has rested in other trees and continues to grow –there is also a fallen Ivy covered Myrobalan Plum behind it.	Advise Fell both the Leylandii and the Plum.	<10	U
31	Broad Leaved Lime <i>Tilia platyphyllos</i>	15	750	N 8 E 8 S 5 W6	2	EM	Basal suckers	No work required at time of survey	>40	B1
32	Common Lime <i>Tilia x europaea</i>	16	350 170	N 4 E 5 S 5 W7	0	EM	Dense basal suckers-suppressed north side by Tree 31	No work required at time of survey	>40	B1
33	Pedunculate Oak <i>Quercus robur</i>	12	400 #	N 6 E 6 S 6 W6	2	EM	Unable to access-off site tree-fair shape and form	No work required at time of survey	>40	A1
Group 9	Ash (<i>Fraxinus</i>) Lime (<i>Tilia</i>) Cypress (<i>Cupressus</i>)	6 to 12	75 to 180	N - E - S - W-	0	Y	Suppressed-sapling Ash and Lime –dead Conifer-poor quality trees	Remove the dead conifer	10-20	C2
Group 10	Leyland Cypress x 2 <i>Cupressocyparis leylandii</i>	13	Av 300 #	N 4 E 4 S 4 W4	2	SM	Unable to access due to dense vegetation and brambles-suppressed by Eucalyptus-previously heavily topped out-poor quality trees	No work required at time of survey	10-20	C2
34	Cider Gum <i>Eucalyptus gunnii</i>	16	550 #	N 6 E 6 S 6 W8	3	EM	Unable to access due to dense vegetation and brambles-previously heavily topped out	No work required at time of survey	30-40	B1
35	Common Ash <i>Fraxinus excelsior</i>	10	150	N 2 E 2 S 2 W2	2	Y	Suppressed and dominated by Conifer and Eucalyptus	Advise Fell	<10	U

36	Broad Leaved Lime <i>Tilia platyphyllos</i>	12	360	N 4 E 6 S 4 W 6	0	EM	Suckers-fair shape and form	No work required at time of survey	>40	B1
37	Broad Leaved Lime <i>Tilia platyphyllos</i>	10	360	N 4 E 6 S 4 W 6	0	EM	Suckers-fair shape and form	No work required at time of survey	>40	B1
38	Common Lime <i>Tilia x europaea</i>	9	200 #	N 2 E 2 S 2 W 2	2	EM	Unable to access due to dense vegetation and brambles-ivy smothering base, trunk and through crown and dominated by same-low crown density-low vigour and vitality-poor quality tree	Advise Fell	<10	U
39	Broad Leaved Lime <i>Tilia platyphyllos</i>	14	420	N 5 E 5 S 5 W 7	0	EM	Suckers-low branching habit	No work required at time of survey	>40	B1
40	Cider Gum <i>Eucalyptus gunnii</i>	20	500	N 4 E 2 S 6 W 8	6	EM	Ivy smothering base and trunk-arching lean west-suppressed by Cypress Tree 41 and forced to grow out to the west side	No work required at time of survey	>40	B1
41	Monterey Cypress <i>Cupressus macrocarpa</i>	20	1000	N 6 E 7 S 7 W 9	1	M	Small and large diameter deadwood-central trunk has been removed and remaining stump is heavily decayed	No work required at time of survey	30-40	B1
42	Common Lime <i>Tilia x europaea</i>	10	150 150	N 0 E 2 S 4 W 5	1	Y	Suppressed and dominated by Trees 40/41-sapling tree-of poor quality	Advise fell to benefit other trees around it	<10	U
43	Pedunculate Oak <i>Quercus robur</i>	14	800	N 6 E 12 S 10 W 8	4	M	Off site tree-small and large diameter deadwood	No work required at time of survey	>40	A1
44	Pedunculate Oak <i>Quercus robur</i>	12	800	N 3 E 10 S 12 W 7	3	M	Off site tree-contorted trunk-small and large diameter deadwood throughout-suppressed by the dominant Tree 43	No work required at time of survey	>40	B1
45	Leyland Cypress <i>Cupressocyparis leylandii</i>	16	400	N 4 E 4 S 4 W 5	0	SM	Ivy smothering base and trunk-storm damaged with broken branches and hangers-previously topped out-poor quality tree	No work required at time of survey	10-20	C1

Shelt 2	Leyland Cypress <i>Cupressocyparis leylandii</i>	16	Av 250	N 4 E 4 S 4 W4	1	Y	Crown shape dictated by group pressure-merged crowns-linear belt of screening Conifers	No work required at time of survey	30-40	B2
46	Monterey Cypress <i>Cupressus macrocarpa</i>	20	750 #	N 9 E 9 S 9 W9	1	M	Off site tree-small and large diameter deadwood and stubs-good shape and form	No work required at time of survey	>40	A1
Group 11	Domestic Apples x 8 <i>Malus domestica</i>	3	Av 150	N - E - S - W-	0	SM	Ivy smothering base, trunk and through crowns-suppressed by Conifers-choked with Ivy and brambles-poor quality trees	Sever ivy and remove brambles	10-20	C2
47	Silver Birch <i>Betula pendula</i>	14	250 #	N 3 E 3 S 3 W3	2	SM	Unable to access due to dense vegetation and brambles-choked by the same	Sever ivy and remove brambles	10-20	C1
48	Sycamore <i>Acer pseudoplatanus</i>	10	160	N 3 E 3 S 3 W3	2	Y	Off site tree-Ivy smothering base and trunk-self sown sapling-open splayed habit to crown-poor quality tree	No work required at time of survey	10-20	C1
49	Hawthorn <i>Crataegus monogyna</i>	6	150	N 0 E 2 S 4 W2	4	SM	Off site tree-low crown density-choked by Ivy and brambles	No work required at time of survey	<10	U
50	Pedunculate Oak <i>Quercus robur</i>	14	900 #	N 7 E 7 S 7 W7	3	M	Off site tree-open straggly form to crown	No work required at time of survey	>40	B1
Shelt 3	Leyland Cypress <i>Cupressocyparis leylandii</i>	16 to 18	200 to 600	N 5 E - S 2 W-	0	SM	Crown shapes dictated by group pressures-merged crowns-previously heavily topped out at 5m but have been allowed to grow out to present proportions-severe lean east to end tree-probably root plate lifted-considerable weight in crown-pruned back on south side	Advise removal and replanting for safety reasons	<10	U
Group 12	Leyland Cypress (<i>Cupressocyparis</i>) Holly (<i>Ilex</i>)	12	200 #	N 3 E 3 S 3 W3	2	Y	Off site trees-crown shapes dictated by group pressures-merged crowns-poor quality trees	No work required at time of survey	10-20	C2
Shelt 4	Leyland Cypress <i>Cupressocyparis leylandii</i>	8 to 10	Av 100	N - E 3 S - W1	0	Y	Previously topped out-flat pruned on neighbours side	No work required at time of survey	20-30	C2

Group 13	Myrobalan Plums <i>Prunus cerasifera</i>	8	200 to 300	N 4 E 4 S 4 W4	0	EM,	Ivy smothering base, trunk and through crowns- crown shapes dictated by group pressure-merged crowns choked with Ivy and brambles-poor quality trees	Sever ivy and remove brambles	10- 20	C2
51	Domestic Pear <i>Pyrus domestica</i>	6	220 150 150	N 3 E 4 S 4 W3	1	M	Fair shape and form	No work required at time of survey	30- 40	B1
Group 14	Leyland Cypress <i>x 2</i> <i>Cupressocyparis leylandii</i>	9	450	N 1 E 5 S 8 W3	0	SM	Ivy smothering base, trunks and through crowns-root plate lifted to west side but continued to grow on-crown shapes dictated by group pressures-merged crowns-low crown density-dieback-small diameter deadwood throughout-poor quality trees	Advise fell	<10	U
Group 15	Domestic Apples <i>x 8</i> <i>Malus domestica</i>	2	Av 150	N 1.5 E 1.5 S 1.5 W1.5	1	SM	Stunted by pruning for fruit production-some have heaved and have severe leans-poor quality trees	No work required at time of survey	10- 20	C2

3.2 A Tree Root Protection Schedule has been prepared in accordance with BS5837:2012 recommendations (see Plans BJH 01 & 02 at [appendix BH2](#))

Tree No.	Tree Species	Cat	Diam mm	BS5837:2012 Table D1 Radial Protect. Zone m	BS5837:2012 Table D1 Root Protect. Area m ²
Shelt 1	Leyland Cypress <i>Cupressocyparis leylandii</i>	C2	75 to 250	0.9 3.0	3 28
1	Hawthorn <i>Crataegus monogyna</i>	U	270	n/a	n/a
2	Broad Leaved Lime <i>Tilia platyphyllos</i>	A1	720	8.6	235
3	Broad Leaved Lime <i>Tilia platyphyllos</i>	B1	550	6.6	137
4	Broad Leaved Lime <i>Tilia platyphyllos</i>	A1	580	7.0	152
5	Flowering Cherry <i>Prunus avium</i>	C1	450	5.4	92
6	Common Ash <i>Fraxinus excelsior</i>	C1	300 270 250/250	6.4	130
7	Chanticleer Pear <i>Pyrus chanticleer</i>	A1	90	1.1	4
8	Holly <i>Ilex aquifolium</i>	C1	170	2.0	13
9	Bay Laurel <i>Laurus nobilis</i>	C1	50 x 8	1.7	9
10	Monterey Cypress <i>Cupressus macrocarpa</i>	C1	750 #	9.0	255
11	Monterey Cypress <i>Cupressus macrocarpa</i>	B1	650 #	7.8	191
12	Pedunculate Oak <i>Quercus robur</i>	C1	450 #	5.4	92

13	Western Red Cedar <i>Thuja plicata</i>	C1	170 170	2.9	26
Group 1	Bay Laurels x 2 <i>Laurus nobilis</i>	C2	60 x 6	1.8	10
Hedge 1	Leyland Cypress <i>Cupressocyparis leylandii</i>	C2	100 to 150	1.2 1.8	5 10
14	Pittosporum <i>Pittosporum tenuifolium</i>	B1	240 160 120	3.7	44
15	Pedunculate Oak <i>Quercus robur</i>	A1	1500	15.0	707
16	Weeping Silver Pear <i>Pyrus salicifolia 'Pendula'</i>	B1	160	1.9	12
17	Hawthorn <i>Crataegus monogyna</i>	B1	100 30	1.3	5
18	Griselinia <i>Griselinia littoralis</i>	B1	200 x 3 170 x 4	5.4	91
Group 2	Holm Oak (<i>Quercus</i>) Elms (<i>Ulmus</i>) x 2	B2	220 170	2.6 2.0	22 13
Group 3	Hawthorn (<i>Crataegus</i>) Elm (<i>Ulmus</i>) Holm Oak (<i>Quercus</i>)	U	Av 100	n/a	n/a
Group 4	Pittosporum x 4 <i>Pittosporum tenuifolium</i>	C2	Av 200 x 3	4.2	54
Group 5	Leyland Cypress x2 <i>Cupressocyparis leylandii</i>	C2	360 340	4.3 4.1	59 52
19	Pedunculate Oak <i>Quercus robur</i>	A1	170	2.0	13
Group 6	Holm Oaks <i>Quercus robur</i>	C2	150 70 60	1.8 0.9 0.6	10 3 2

20	Pedunculate Oak <i>Quercus robur</i>	B1	370 350 350	6.4	173
21	Holm Oak <i>Quercus robur</i>	B1	350	4.2	55
22	Domestic Apple <i>Malus domestica</i>	U	160	n/a	n/a
23	Crab Apple <i>Malus spp.</i>	B1	180 120 x3	3.3	34
Group 7	Sycamores (<i>Acer</i>) x2	U	Av 200	n/a	n/a
	Lime (<i>Tilia</i>)	A1	200	2.4	18
24	Holm Oak <i>Quercus robur</i>	C2	120 x 4	2.9	26
25	Monterey Cypress <i>Cupressus macrocarpa</i>	B1	750	9.0	255
Copse 1	Sycamores (<i>Acer</i>) Elms (<i>Ulmus</i>)	C2	Av 150	1.8	10
26	Flowering Cherry <i>Prunus avium</i>	C1	130 90	1.9	11
27	Viburnum <i>Viburnum tinus</i>	B2	75 x 7	3.0	28
28	Hawthorn <i>Crataegus monogyna</i>	B1	200 100 100	2.9	27
Group 8	Flowering Cherries x 4 <i>Prunus avium</i>	C2	Av 200 #	2.4	18
29	Norway Spruce <i>Picea abies</i>	C1	170 #	2.0	13
30	Leyland Cypress <i>Cupressocyparis leylandii</i>	U	300 #	n/a	n/a

31	Broad Leaved Lime <i>Tilia platyphyllos</i>	B1	750	9.0	255
32	Common Lime <i>Tilia x europaea</i>	B1	350 170	4.7	69
33	Pedunculate Oak <i>Quercus robur</i>	A1	400 #	4.8	72
Group 9	Ash (<i>Fraxinus</i>) Lime (<i>Tilia</i>) Cypress (<i>Cupressus</i>)	C2	75 to 180	0.9 2.2	3 15
Group 10	Leyland Cypress x 2 <i>Cupressocyparis leylandii</i>	C2	Av 300 #	3.6	41
34	Cider Gum <i>Eucalyptus gunnii</i>	B1	550 #	6.6	137
35	Common Ash <i>Fraxinus excelsior</i>	U	150	n/a	n/a
36	Broad Leaved Lime <i>Tilia platyphyllos</i>	B1	360	4.3	59
37	Broad Leaved Lime <i>Tilia platyphyllos</i>	B1	360	4.3	59
38	Common Lime <i>Tilia x europaea</i>	U	200 #	n/a	n/a
39	Broad Leaved Lime <i>Tilia platyphyllos</i>	B1	420	5.0	80
40	Cider Gum <i>Eucalyptus gunnii</i>	B1	500	6.0	113
41	Monterey Cypress <i>Cupressus macrocarpa</i>	B1	1000	12.0	452
42	Common Lime <i>Tilia x europaea</i>	U	150 150	n/a	n/a

43	Pedunculate Oak <i>Quercus robur</i>	A1	800	9.6	290
44	Pedunculate Oak <i>Quercus robur</i>	B1	800	9.6	290
45	Leyland Cypress <i>Cupressocyparis leylandii</i>	C1	400	4.8	71
Shelt 2	Leyland Cypress <i>Cupressocyparis leylandii</i>	B2	Av 250	3.0	28
46	Monterey Cypress <i>Cupressus macrocarpa</i>	A1	750 #	9.0	225
Group 11	Domestic Apples x 8 <i>Malus domestica</i>	C2	Av 150	1.8	10
47	Silver Birch <i>Betula pendula</i>	C1	250 #	3.0	28
48	Sycamore <i>Acer pseudoplatanus</i>	C1	160	1.9	12
49	Hawthorn <i>Crataegus monogyna</i>	U	150	n/a	n/a
50	Pedunculate Oak <i>Quercus robur</i>	B1	900 #	10.8	366
Shelt 3	Leyland Cypress <i>Cupressocyparis leylandii</i>	U	200 to 600	n/a	n/a
Group 12	Leyland Cypress (<i>Cupressocyparis</i>) Holly (<i>Ilex</i>)	C2	200 #	2.4	18
Shelt 4	Leyland Cypress <i>Cupressocyparis leylandii</i>	C2	Av 100	1.2	5
Group 13	Myrobalan Plums <i>Prunus cerasifera</i>	C2	200 to 300	2.4 3.6	18 41

51	Domestic Pears <i>Pyrus domestica</i>	B1	220 150 150	3.7	42
Group 14	Leyland Cypress <i>x 2</i> <i>Cupressocyparis</i> <i>leylandii</i>	U	450	n/a	n/a
Group 15	Domestic Apples <i>x 8</i> <i>Malus domestica</i>	C2	Av 150	1.8	10

4.0 IMPACT ASSESSMENT & TREE PROTECTION MEASURES RECOMMENDED

4.1 The finalised planning layout drawing has been provided to me and an assessment made as to the viability of retaining trees as part of this layout in order that they meet the RPA requirements of BS5837 - the data is presented here in tabular format :-

Key: **NO-RSAM** = Remove for sound arboricultural management reasons **NO-RTFD** = Remove to facilitate development **NO-RHSR** = Remove for health & safety reasons
YES = tree can be retained and fully protected **YES (1)** = tree can be retained subject to mitigation measures being applied **YES (3)** – To be transplanted

Tree No	Species	Cat	Stem Diam mm	BS5837:2012 Radial Protection Area m	BS5837:2012 Table D1 Root Protect. Area m ²	Distance from Site Features (see key above)	Can Tree Be Retained
Shelt 1	Leyland Cypress <i>Cupressocyparis leylandii</i>	C2	75 to 250	0.9 3.0	3 28	1m to 10m from existing access driveway – to be removed to allow for broadleaf tree planting	NO-RSAM
1	Hawthorn <i>Crataegus monogyna</i>	U	270	n/a	n/a	Would be removed for health and safety reasons regardless of any redevelopment proposals	NO-RHSR
2	Broad Leaved Lime <i>Tilia platyphyllos</i>	A1	720	8.6	235	2.5m to existing access driveway 5m to new track/link path	YES (1)
3	Broad Leaved Lime <i>Tilia platyphyllos</i>	B1	550	6.6	137	2m to existing access driveway	YES
4	Broad Leaved Lime <i>Tilia platyphyllos</i>	A1	580	7.0	152	2.5m to existing access driveway	YES
5	Flowering Cherry <i>Prunus avium</i>	C1	450	5.4	92	5m to existing access driveway	YES
6	Common Ash <i>Fraxinus excelsior</i>	C1	300 270 250/250	6.4	130	6.2m to existing access driveway 8.5m to new hard landscaping feature	YES
7	Chanticleer Pear <i>Pyrus chanticleer</i>	A1	90	1.1	4	9.5m to existing access driveway 4m to new hard landscaping feature	YES
8	Holly <i>Ilex aquifolium</i>	C1	170	2.0	13	4.3m to existing access driveway 9.7m to new Car Port 2m to new hard landscaping feature	YES
9	Bay Laurel <i>Laurus nobilis</i>	C1	50 x 8	1.7	9	9m to existing access driveway 12.2m to new Car Port 4m to new hard landscaping feature	YES

Tree No	Species	Cat	Stem Diam mm	BS5837:2012 Radial Protection Area m	BS5837:2012 Table D1 Root Protect. Area m ²	Distance from Site Features (see key above)	Can Tree Be Retained
10	Monterey Cypress <i>Cupressus macrocarpa</i>	C1	750 #	9.0	255	11m to existing access driveway 9.5m to new Car Port 1.5m to new hard landscaping feature	YES (1)
11	Monterey Cypress <i>Cupressus macrocarpa</i>	B1	650 #	7.8	191	9.8m to existing access driveway 5.6m to new Car Port 4.5m to new hard landscaping feature	YES (1)
12	Pedunculate Oak <i>Quercus robur</i>	C1	450 #	5.4	92	8.5m to existing access driveway 3.5m to new Car Port 3m to new hard landscaping feature	YES (1)
13	Western Red Cedar <i>Thuja plicata</i>	C1	170 170	2.9	26	Under the footprint of Kit Store/Garage	NO-RTFD
Group 1	Bay Laurels x 2 <i>Laurus nobilis</i>	C2	60 x 6	1.8	10	Under the footprint of Kit Store/Garage	NO-RTFD
Hedge 1	Leyland Cypress <i>Cupressocyparis leylandii</i>	C2	100 to 150	1.2 1.8	5 10	To be removed to allow for broadleaf tree planting and new landscape features	NO-RSAM
14	Pittosporum <i>Pittosporum tenuifolium</i>	B1	240 160 120	3.7	44	To be removed to allow for broadleaf tree planting and new landscape features	NO-RSAM
15	Pedunculate Oak <i>Quercus robur</i>	A1	1500	15.0	707	4m to new hard landscape features	YES (1)
16	Weeping Silver Pear <i>Pyrus salicifolia 'Pendula'</i>	B1	160	1.9	12	To be removed to allow for broadleaf tree planting and new landscape features	NO-RSAM
17	Hawthorn <i>Crataegus monogyna</i>	B1	100 30	1.3	5	4m to new landscape features	YES
18	Griselinia <i>Griselinia littoralis</i>	B1	200 x 3 170 x 4	5.4	91	4m to new landscape features	YES (1)
Group 2	Holm Oak (<i>Quercus</i>) Elms (<i>Ulmus</i>) x 2	B2	220 170	2.6 2.0	22 13	2.6m to new landscape features	YES (1)

Tree No	Species	Cat	Stem Diam mm	BS5837:2012 Radial Protection Area m	BS5837:2012 Table D1 Root Protect. Area m ²	Distance from Site Features (see key above)	Can Tree Be Retained
Group 3	Hawthorn (<i>Crataegus</i>) Elm (<i>Ulmus</i>) Holm Oak (<i>Quercus</i>)	U	Av 100	n/a	n/a	Would be removed for health and safety reasons regardless of any redevelopment proposals	NO-RHSR
Group 4	Pittosporum x 4 <i>Pittosporum tenuifolium</i>	C2	Av 200 x 3	4.2	54	2.5m to new landscape features	YES (1)
Group 5	Leyland Cypress x2 <i>Cupressocyparis leylandii</i>	C2	360 340	4.3 4.1	59 52	To be removed to allow for broadleaf tree planting and new landscape features	NO-RSAM
19	Pedunculate Oak <i>Quercus robur</i>	A1	170	2.0	13	9m to new landscape features	YES
Group 6	Holm Oaks <i>Quercus robur</i>	C2	150 70 60	1.8 0.9 0.6	10 3 2	12m to new landscape features	YES
20	Pedunculate Oak <i>Quercus robur</i>	B1	370 350 350	6.4	173	12m to new landscape features	YES
21	Holm Oak <i>Quercus robur</i>	B1	350	4.2	55	12m to new landscape features	YES
22	Domestic Apple <i>Malus domestica</i>	U	160	n/a	n/a	Would be removed for health and safety reasons regardless of any redevelopment proposals	NO-RHSR
23	Crab Apple <i>Malus spp.</i>	B1	180 120 x3	3.3	34	5m to new landscape features	YES
Group 7	Sycamores (<i>Acer</i>) x2 Lime (<i>Tilia</i>)	U A1	Av 200 200	n/a 2.4	n/a 18	Sycamores - would be removed for health and safety reasons regardless of any redevelopment proposals Lime – 8m to new landscape features	NO-RHSR YES

Tree No	Species	Cat	Stem Diam mm	BS5837:2012 Radial Protection Area m	BS5837:2012 Table D1 Root Protect. Area m ²	Distance from Site Features (see key above)	Can Tree Be Retained
24	Holm Oak <i>Quercus robur</i>	C2	120 x 4	2.9	26	10m to new landscape features	YES
25	Monterey Cypress <i>Cupressus macrocarpa</i>	B1	750	9.0	255	3m to new landscape features	YES (1)
Copse 1	Sycamores (<i>Acer</i>) Elms (<i>Ulmus</i>)	C2	Av 150	1.8	10	Well clear of any redevelopment proposals. Dead tree to be removed for health and safety reasons Copse to be generally thinned to favour the better trees and improved growth pattern in the future	YES
26	Flowering Cherry <i>Prunus avium</i>	C1	130 90	1.9	11	To be removed to allow for broadleaf tree planting and new landscape features	NO-RSAM
27	Viburnum <i>Viburnum tinus</i>	B2	75 x 7	3.0	28	4m to new landscape features	YES
28	Hawthorn <i>Crataegus monogyna</i>	B1	200 100 100	2.9	27	To be removed to allow for broadleaf tree planting and new landscape features	NO-RSAM
Group 8	Flowering Cherries x 4 <i>Prunus avium</i>	C2	Av 200 #	2.4	18	5m to new landscape features	YES
29	Norway Spruce <i>Picea abies</i>	C1	170 #	2.0	13	6m to new landscape features	YES
30	Leyland Cypress <i>Cupressocyparis leylandii</i>	U	300 #	n/a	n/a	Would be removed for health and safety reasons regardless of any redevelopment proposals	NO-RHSR
31	Broad Leaved Lime <i>Tilia platyphyllos</i>	B1	750	9.0	255	5.5m to new landscape features	YES (1)
32	Common Lime <i>Tilia x europaea</i>	B1	350 170	4.7	69	5.5m to new landscape features	YES

Tree No	Species	Cat	Stem Diam mm	BS5837:2012 Radial Protection Area m	BS5837:2012 Table D1 Root Protect. Area m ²	Distance from Site Features (see key above)	Can Tree Be Retained
33	Pedunculate Oak <i>Quercus robur</i>	A1	400 #	4.8	72	12.5m to new landscape features	YES
Group 9	Ash (<i>Fraxinus</i>) Lime (<i>Tilia</i>) Cypress (<i>Cupressus</i>)	C2	75 to 180	0.9 2.2	3 15	3m to new landscape features Remove conifer to allow Lime and Ash to develop fully	YES
Group 10	Leyland Cypress x 2 <i>Cupressocyparis leylandii</i>	C2	Av 300 #	3.6	41	To be removed to allow for broadleaf tree planting and new landscape features	NO-RSAM
34	Cider Gum <i>Eucalyptus gunnii</i>	B1	550 #	6.6	137	To be removed to allow for broadleaf tree planting and new landscape features	NO-RSAM
35	Common Ash <i>Fraxinus excelsior</i>	U	150	n/a	n/a	Would be removed for health and safety reasons regardless of any redevelopment proposals	NO-RHSR
36	Broad Leaved Lime <i>Tilia platyphyllos</i>	B1	360	4.3	59	3m to new landscape features	YES (1)
37	Broad Leaved Lime <i>Tilia platyphyllos</i>	B1	360	4.3	59	3.5m to new landscape features	YES (1)
38	Common Lime <i>Tilia x europaea</i>	U	200 #	n/a	n/a	Would be removed for health and safety reasons regardless of any redevelopment proposals	NO-RHSR
39	Broad Leaved Lime <i>Tilia platyphyllos</i>	B1	420	5.0	80	2.5m to new landscape features	YES (1)
40	Cider Gum <i>Eucalyptus gunnii</i>	B1	500	6.0	113	To be removed to allow for broadleaf tree planting and new landscape features	NO-RSAM
41	Monterey Cypress <i>Cupressus macrocarpa</i>	B1	1000	12.0	452	9.5m to new landscape features	YES (1)

Tree No	Species	Cat	Stem Diam mm	BS5837:2012 Radial Protection Area m	BS5837:2012 Table D1 Root Protect. Area m ²	Distance from Site Features (see key above)	Can Tree Be Retained
42	Common Lime <i>Tilia x europaea</i>	U	150 150	n/a	n/a	Would be removed for health and safety reasons regardless of any redevelopment proposals	NO-RHSR
43	Pedunculate Oak <i>Quercus robur</i>	A1	800	9.6	290	6.5m to new landscape features	YES (1)
44	Pedunculate Oak <i>Quercus robur</i>	B1	800	9.6	290	8m to new landscape features	YES (1)
45	Leyland Cypress <i>Cupressocyparis leylandii</i>	C1	400	4.8	71	To be removed to allow for broadleaf tree planting and new landscape features	NO-RSAM
Shelt 2	Leyland Cypress <i>Cupressocyparis leylandii</i>	B2	Av 250	3.0	28	To be removed to allow for broadleaf tree planting and new landscape features	NO-RSAM
46	Monterey Cypress <i>Cupressus macrocarpa</i>	A1	750 #	9.0	225	7m to new productive garden	YES (1)
Group 11	Domestic Apples x 8 <i>Malus domestica</i>	C2	Av 150	1.8	10	UF of new productive garden	NO-RTFD
47	Silver Birch <i>Betula pendula</i>	C1	250 #	3.0	28	UF of new productive garden	NO-RTFD
48	Sycamore <i>Acer pseudoplatanus</i>	C1	160	1.9	12	UF of new productive garden	NO-RTFD
49	Hawthorn <i>Crataegus monogyne</i>	U	150	n/a	n/a	Would be removed for health and safety reasons regardless of any redevelopment proposals	NO-RHSR
50	Pedunculate Oak <i>Quercus robur</i>	B1	900 #	10.8	366	8m to new productive garden	YES (1)
Shelt 3	Leyland Cypress <i>Cupressocyparis leylandii</i>	U	200 to 600	n/a	n/a	Would be removed for health and safety reasons regardless of any redevelopment proposals	NO-RHSR

Tree No	Species	Cat	Stem Diam mm	BS5837:2012 Radial Protection Area m	BS5837:2012 Table D1 Root Protect. Area m ²	Distance from Site Features (see key above)	Can Tree Be Retained
Group 12	Leyland Cypress (<i>Cupressocyparis</i>) Holly (<i>Ilex</i>)	C2	200 #	2.4	18	To be removed to allow for broadleaf tree planting and new landscape features	NO-RSAM
Shelt 4	Leyland Cypress <i>Cupressocyparis</i> <i>leylandii</i>	C2	Av 100	1.2	5	To be removed to allow for broadleaf tree planting and new landscape features	NO-RSAM
Group 13	Myrobalan Plums <i>Prunus cerasifera</i>	C2	200 to 300	2.4 3.6	18 41	Under Footprint of Pergola	NO-RTFD
51	Domestic Pears <i>Pyrus domestica</i>	B1	220 150 150	3.7	42	Under Footprint of Pergola	NO-RTFD
Group 14	Leyland Cypress <i>x 2</i> <i>Cupressocyparis</i> <i>leylandii</i>	U	450	n/a	n/a	Would be removed for health and safety reasons regardless of any redevelopment proposals	NO-RHSR
Group 15	Domestic Apples <i>x 8</i> <i>Malus domestica</i>	C2	Av 150	1.8	10	Most of them would be removed for health and safety reasons regardless of any redevelopment proposals. But four will be transplanted to an alternative location on site.	NO-RTFD YES (3)

4.2 Summary

	YES	YES (1)	YES (3)	NO-RHSR	NO-RTFD	NO-RSAM
	Can be retained and fully protected in accordance with BS5837 recommendations - see Tree Protection Plan BJH.03/04 at appendix BH3	Can be retained and protected in accordance with BS5837 recommendations (see Tree Protection Plan BJH.03/04 at appendix BH3) - subject to adherence to the methodology prescribed in this report – see Section 6 for full details.	Can be transplanted rather than be lost to development proposals	Recommended for removal for health and safety reasons - regardless of any redevelopment proposals	Recommended for removal in order to facilitate development proposals	Recommended for removal on sound arboricultural management grounds – to benefit the growth of other trees or to facilitate broadleaf planting.
A	4 Lime; 7 Pear; 19 Oak & 33 Oak Grp 7 Limes	2 Lime; 15 Oak; 43 Oak & 46 Cypress	-	-	-	-
B	3 Lime; 17 Hawthorn; 20 Oak; 21 Holm Oak; 23 Crabapple; 27 Viburnum & 32 Lime.	11 Cypress; 18 Griselinia; 25 Cypress; 31 Lime; 36 Lime; 37 Lime; 39 Lime; 41 Cypress; 44 Oak & 50 Oak Grp 2 Mixed	-	-	51 Pear	14 Pittosporum; 16 Pear; 28 Hawthorn; 34 Cider Gum & 40 Cider Gum Shelt 2 Cypresses
C	5 Cherry; 6 Ash; 8 Holly; 9 Laurel; 24 Holm Oak & 29 Norway Spruce Grp 6 Holm Oaks; Grp 8 Cherries; Grp 9 Mixed Copse 1 Sycamores	10 Cypress & 12 Oak Grp 4 Pittosporums	Grp 5 Apples	-	13 W R Cedar; 47 Birch & 48 Sycamore Grp 1 Laurels; Grp 11 Apples; Grp 13 Plums & Grp 15 Apples Shelt 1 Cypresses	26 Cherry & 45 Cypress Hedge 1 Cypresses Grp 5 Cypresses; Grp 10 Cypresses & Grp 12 Mixed & Shelt 4 Cypresses
U	-	-	-	1 Hawthorn; 22 Apple; 30 Cypress; 35 Ash; 38 Lime; 42 Lime & 49 Hawthorn Grp 3 Mixed; Grp 7 Sycamores & Grp 14 Cypresses	Shelt 3 Cypresses	-

5.0 RECOMMENDED TREE WORKS

N.B. – The following list only includes trees which require to be worked on – if they are not listed here then they do not require any work at this time.

No	Species	Tree Works Recommended
Shelt 1	Leyland Cypress <i>Cupressocyparis leylandii</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grub out the resulting tree stumps
1	Hawthorn <i>Crataegus monogyna</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grind out the resulting tree stump.
2	Broad Leaved Lime <i>Tilia platyphyllos</i>	<ul style="list-style-type: none"> Remove all large diameter dead branches - for safety reasons.
6	Common Ash <i>Fraxinus excelsior</i>	<ul style="list-style-type: none"> Remove all large diameter dead branches - for safety reasons.
7	Chanticleer Pear <i>Pyrus chanticleer</i>	<ul style="list-style-type: none"> Remove basal suckers.
8	Holly <i>Ilex aquifolium</i>	<ul style="list-style-type: none"> Remove all Ivy.
9	Bay Laurel <i>Laurus nobilis</i>	<ul style="list-style-type: none"> Prune to allow freedom around the cables that are through the crown.
12	Pedunculate Oak <i>Quercus robur</i>	<ul style="list-style-type: none"> Shorten back the low branch overhang of the garage – for safety reasons.
13	Western Red Cedar <i>Thuja plicata</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grub out the resulting tree stump
Group 1	Bay Laurels x 2 <i>Laurus nobilis</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grub out the resulting tree stumps
Hedge 1	Leyland Cypress <i>Cupressocyparis leylandii</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grub out the resulting tree stump

14	Pittosporum	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grub out the resulting tree stump
15	Pedunculate Oak <i>Quercus robur</i>	<ul style="list-style-type: none"> Remove all large diameter dead branches - for safety reasons.
16	Weeping Pear	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grub out the resulting tree stump
18	Griselinia <i>Griselinia littoralis</i>	<ul style="list-style-type: none"> Remove all dead wood and dieback to improve appearance and make safe.
Group 3	Hawthorn (<i>Crataegus</i>) Elm (<i>Ulmus</i>) + Oak	<ul style="list-style-type: none"> Fell to ground level in a controlled manner.
Group 5	Leyland Cypress	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grub out the resulting tree stump
22	Domestic Apple <i>Malus domestica</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grub out the resulting tree stump.
23	Crab Apple <i>Malus spp.</i>	<ul style="list-style-type: none"> Sever the Ivy.
Group 7	Sycamores (<i>Acer</i>) x2 Lime (<i>Tilia</i>)	<ul style="list-style-type: none"> Fell the two Sycamores to ground level in a controlled manner – to benefit the growth of the retained Lime tree.
25	Monterey Cypress <i>Cupressus macrocarpa</i>	<ul style="list-style-type: none"> Remove all large diameter dead branches - for safety reasons in view of overhang of public footpath. Remove all storm damaged and hanging branches - for safety reasons in view of overhang of public footpath.
Copse 1	Sycamores & Elms	<ul style="list-style-type: none"> Remove all dead trees for safety reasons. Thin out the remaining trees to provide more room for growth and thus favour the better specimens and encourage better shape and form.
26	Cherry	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grub out the resulting tree stump
27	Viburnum <i>Viburnum tinus</i>	<ul style="list-style-type: none"> Remove all Brambles.
28	Hawthorn <i>Crataegus monogyna</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grub out the resulting tree stump

Group 8	Flowering Cherries x 4 <i>Prunus avium</i>	<ul style="list-style-type: none"> Remove all Ivy and Brambles.
29	Norway Spruce <i>Picea abies</i>	<ul style="list-style-type: none"> Remove all Ivy and Brambles.
30	Leyland Cypress <i>Cupressocyparis leylandii</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner (including removing the dead and fallen Plum tree directly behind it). Grub out the resulting tree stumps.
Group 9	Ash (<i>Fraxinus</i>) Lime (<i>Tilia</i>) Cypress (<i>Cupressus</i>)	<ul style="list-style-type: none"> Remove the dead conifer from this grouping.
Group 10	Leyland Cypresses	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grub out the resulting tree stumps
34	Cider Gum <i>Eucalyptus</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grind out the resulting tree stump
35	Common Ash <i>Fraxinus excelsior</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grind out the resulting tree stump.
38	Common Lime <i>Tilia x europaea</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grind out the resulting tree stump.
40	Cider Gum <i>Eucalyptus</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grind out the resulting tree stump
42	Common Lime <i>Tilia x europaea</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner – to benefit the trees around it. Grind out the resulting tree stump.
Group 11	Domestic Apples x 8 <i>Malus domestica</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grind out the resulting tree stumps
45	Leyland Cypress <i>Cupressocyparis leylandii</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grind out the resulting tree stump
Shelt 2	Leyland Cypress <i>Cupressocyparis leylandii</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grind out the resulting tree stumps
47	Silver Birch <i>Betula pendula</i>	<ul style="list-style-type: none"> Fell to ground level in a controlled manner. Grind out the resulting tree stump.

48	Sycamore <i>Acer pseudoplatanus</i>	<ul style="list-style-type: none"> • Fell to ground level in a controlled manner. • Grind out the resulting tree stump.
49	Hawthorn <i>Crataegus monogyna</i>	<ul style="list-style-type: none"> • Fell to ground level in a controlled manner. • Grind out the resulting tree stump.
Shelt 3	Leyland Cypress <i>Cupressocyparis leylandii</i>	<ul style="list-style-type: none"> • Fell to ground level in a controlled manner.
Group 12	Leyland Cypress <i>Cupressocyparis leylandii</i> & Holly	<ul style="list-style-type: none"> • Fell to ground level in a controlled manner. • Grind out the resulting tree stumps
Shelt 4	Leyland Cypress <i>Cupressocyparis leylandii</i>	<ul style="list-style-type: none"> • Fell to ground level in a controlled manner. • Grind out the resulting tree stumps
Group 13	Myrobalan Plums <i>Prunus cerasifera</i>	<ul style="list-style-type: none"> • Fell to ground level in a controlled manner. • Grub out the resulting tree stumps
51	Domestic Pears <i>Pyrus domestica</i>	<ul style="list-style-type: none"> • Fell to ground level in a controlled manner. • Grub out the resulting tree stump
Group 14	Leyland Cypress x 2 <i>Cupressocyparis leylandii</i>	<ul style="list-style-type: none"> • Fell to ground level in a controlled manner. • Grind out the resulting tree stumps
Group 15	Domestic Apples x 4 of <i>Malus domestica</i> [x 4 to be transplanted]	<ul style="list-style-type: none"> • Fell to ground level in a controlled manner. • Grub out the resulting tree stumps

6.0 METHOD STATEMENT

Generic Measures

- 6.1 All of the recommended tree works should ideally be undertaken by an approved and experienced tree contractor prior to any demolition or construction contractors commencing works on site.
- 6.2 Prior to any construction/demolition works being undertaken on this site the protective fencing is to be erected as shown on the **Tree Protection Plan BJH 03/04 (see at appendix BH3)**. BS5837 requires that barriers are to be 'Fit For Purpose' to exclude construction activity and must be maintained to ensure that they remain rigid and complete and in the original setting out positions.
- 6.3 The area within the fenced off exclusion zone is to be regarded as **sacrosanct** and the fencing shall not be taken down or relocated at any time without the prior written approval of the monitoring arboriculturist or local authority tree officer, unless this has already been agreed as part of the planning application consent process and is detailed in writing and shown on a plan.

The following prohibitions shall apply within the area enclosed by the Tree Protection Fencing [**Construction Exclusion Zone**] :-

- **No** mechanical digging or scraping once the initial ground cover vegetation has been cleared and the site fenced off.
 - **No** storage of plant, equipment or materials
 - **No** vehicular or plant access
 - **No** fire lighting
 - **No** handling, discharge or spillage of any chemical substance, including cement washings
 - **No** action likely to cause localised water-logging
 - **No** change in ground levels
- 6.4 All site works storage areas and compounds/welfare units/toilet blocks and any mixing areas are to be located outside of and well clear of retained trees RPA's and positioned over impervious surfaces or over special catchment areas such that any leakage will be captured and cannot filter into the soil causing contamination.
- 6.5 Any requirement for new utility service links will ideally need to be made with all services linking into existing service runs. In the event that there is a need for new service trenches then they must by preference be excavated outside of tree RPA's. IF this cannot be avoided then a separate Mini Method Statement will need to be submitted to deal with this work requirement.

Site Specific Measures

6.6 These will be required in order that the following trees can also be retained :- **2 Lime; 10 Cypress; 11 Cypress; 12 Oak; 15 Oak; 18 Griselinia; Grp 2 Oaks/Elms; Grp 4 Pittosporums; 25 Cypress; 31 Lime; 36 Lime; 37 Lime; 39 Lime; 41 Cypress; 43 Oak; 44 Oak; 46 Cypress and 50 Oak.**

11 Cypress & 12 Oak -

- For both trees there is a substantial brick retaining wall between them and the new structure which will have inhibited rooting and for both trees the existing covered car port has brick walls and footings with a concrete floor which will have deflected the roots.
- The existing car port will need to be carefully demolished and whilst machinery can be used to facilitate this and break out the concrete and footings once bare earth is exposed no machinery will be permitted to operate over this surface and no further machine excavation will be allowed.
- Preparing the exposed earth surface for the new Car Port will all be done using hand tools.
- The new wooden main beams for the Car Port will be supported on concrete pads – work for which will be hand digging and if any roots are encountered they are likely at this distance to be no greater than 25mm diameter so careful severance with sharp bypass secateurs would comply with BS5837 recommendations.
- The surface layer for the new Car Port will be a replacement hard surface for the original concrete flooring.
- ALL of these works will need to be Arboricultural Expert monitored and supervised.

15 Oak –

- This is the prime tree on the site and one which merits special attention and minimal disturbance within its RPZ.
- The existing low brick wall will be carefully demolished by hand – no machinery is allowed to operate within the RPZ of this tree.
- It will be replaced by a new log wall/ stump feature with minimal soil hand tool surface scrape to allow for bedding in the individual components.
- I am advised that the new Water Meadow feature will be a shallow affair and there will be no battering back of the ground or any ground disturbance within the RPZ of this tree.
- The new footpaths which are shown will all be constructed on a NO DIG Porous basis – see examples at appendix BH3.
- ALL of these works will be Arboricultural Expert monitored and supervised.

2 Lime; 10 Cypress; 15 Oak; 18 Griselinia; Grp 2 Oaks/Elms; Grp 4 Pittosporums; 25 Cypress; 31 Lime; 36 Lime; 37 Lime; 39 Lime; 41 Cypress; 43 Oak; 44 Oak; 46 Cypress and 50 Oak -

- The RPZ's for these trees overlaps the various hard landscaping details proposed for this project.
- Any works will by preference need to be 'No Dig' and built up rather than excavated.
- However, where this cannot be avoided then very shallow [maximum 150mm] hand digging with Forks ONLY to prepare for the new landscaping detail and this will need to be Arboricultural Expert monitored.

46 Monterey Cypress & 50 Oak –

- The RPZ for this tree overlaps the new Productive Garden area.
- Any works within the overlapping zone will need Arboricultural Expert monitored very shallow hand digging only to prepare for the new soft and hard [greenhouse] landscaping detail and vegetable plots.
- If any roots are encountered they are likely at this distance to be no greater than 25mm diameter so careful severance with sharp bypass secateurs would comply with BS5837 recommendations.

7.0 SITE MONITORING & SUPERVISION

BS5837 recommends that wherever trees on or adjacent to a site have been identified on the Tree Protection Plan as requiring special protection measures, there should be an auditable system of arboricultural site monitoring. This should extend to direct arboricultural monitoring whenever demolition/construction and development activity is to take place within or adjacent to any RPZ.

- 7.1 A Pre-commencement site meeting is to take place between the development teams arboricultural consultant and the site manager and a representative from the local authority -where the protective fencing will be inspected to verify that it is 'Fit For Purpose' as shown on the Tree Protection Plan.
- 7.2 Lines of communication will be established with the Site Manager and a contact sheet prepared so that in the event that an incident occurs involving the retained trees that requires urgent advice and guidance from the project Arboricultural Expert this can be easily organised.

7.3 The details of the PCSM works will be photographed by the Arboricultural Expert [AE] and the following reporting procedure will be adopted. This is an example of the format for the **Site Monitoring Schedule** that would be prepared. :-

Schedule Of Site Monitoring & Supervision for – Orchard House, The Street, Itchenor

- In accordance with the Arboricultural Method Statement Report - 1170.bjh.Feb23 & Tree Protection Plan - BJH 03/04

Date of Inspection	Item	In Attendance	Notes/Observations From Inspection	Details Of Any Follow Up Action Required
tba	Pre-Commencement Meeting	Project Arb Consultant & Site Construction Manager + Local Authority representative	<ul style="list-style-type: none"> • A joint site inspection was conducted and agreement reached that the protection measures are in place and that everyone understands their responsibilities..... 	<ul style="list-style-type: none"> •
tba	'Hand Digging' Works prior to soft and hard landscaping works	Project Arb Consultant & Site Construction Manager	<ul style="list-style-type: none"> • AE supervised the operation and severed roots which could not be retained in situ.... 	<ul style="list-style-type: none"> •

8.0 CONCLUSIONS

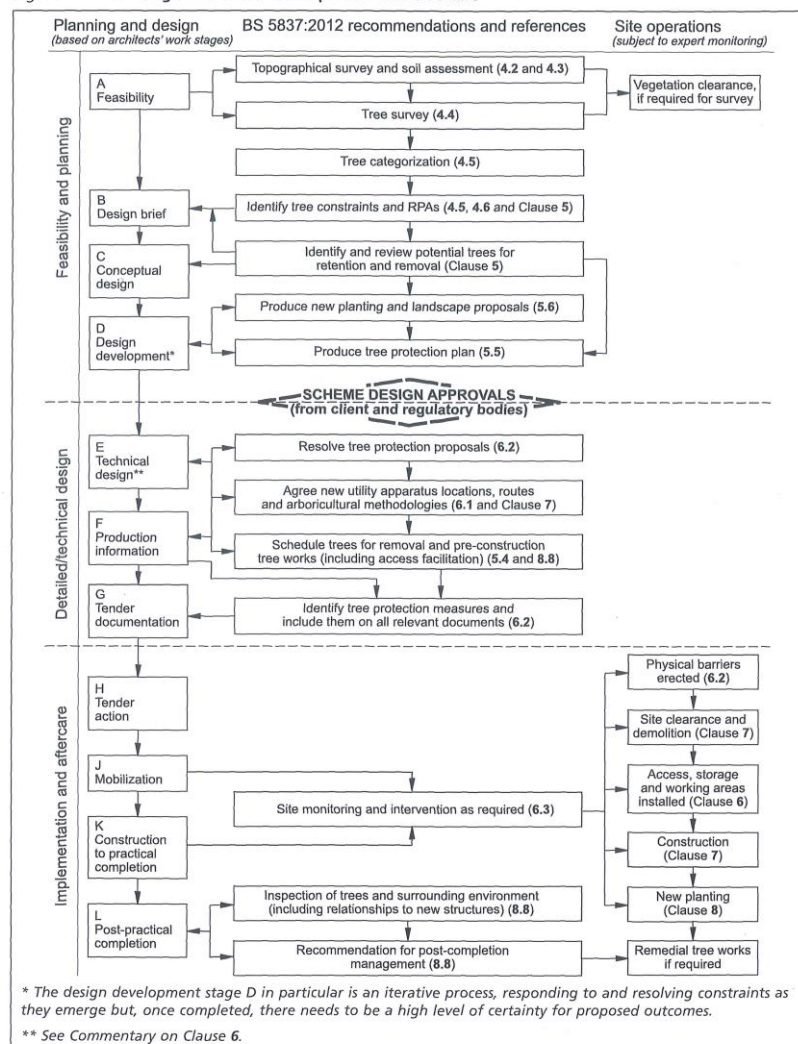
- Four (4) individual trees and four (4) groups and one (1) Shelterbelt will need to be removed to facilitate the development as proposed - of these only one is moderate B graded [tree 51 Pear].
- A further seven (7) U fell graded trees and three (3) U fell graded groups will be removed for health and safety reasons regardless of any redevelopment works proposed.
- In addition one (1) tree and three (3) Shelterbelts; three (3) groups and one (1) hedge of conifers will be removed to allow for broadleaf tree planting to take place.
- Also two (2) Eucalyptus trees and four (4) small ornamental type trees will be removed to allow for hard and soft landscaping features to be installed.
- There is a comprehensive landscape scheme/master plan for this project [prepared by Marian Boswall Landscape Architects] which shows high levels of shrub and tree planting which will more than adequately mitigate the tree loss which is proposed. This involves planting around 75 new trees on site, including Holly; Hawthorn; Beech; Lime and Oak as agreed in discussions with the Chichester Harbour Conservancy Ecologist.
- In addition to this I am also advised that my client has committed to planting a new fruit orchard made up of heirloom/heritage varieties of old plant stocks of Apple; Pear; Plum; Damson and Quince. This is based on the fact that this site was the original Orchard for Itchenor Park House in the 1830's. The varieties will be chosen to align with the work being done at the National Fruit Collection in collaboration with the University of Reading and DEFRA.
- The levels of planting are such that there will be a significant enhancement of the landscape value of this site for the future that will better suit its new residential layout, with species and age diversity and a greater concentration on broadleaf species and this will also ensure a continuity of landscape/amenity value going forwards.
- Overall, provided that the above methodology is strictly adhered to then I would not foresee any detrimental impact taking place that might undermine the ongoing health and stability or visual amenity value of the trees that are shown for retention.



BH 1

Figure 1 - Flow Diagram
& Tree Survey Notes

Figure 1 The design and construction process and tree care



TREE SURVEY NOTES

These Tree Survey Notes have been prepared in accordance with the recommendations of **British Standard 5837:2012** and they define the criteria for pre –development tree surveys.

- Each tree/group/hedge/shelterbelt/woodland has been allocated a unique number (**No.**), where specifically requested and appropriate fees are agreed small durable numbered metal tags can be applied to each tree/group surveyed.
- The tree species (**Species**) is provided in both English and Latin name formats.
- Height assessments (**Ht**) are estimated in metres. This will be adequate for the majority of cases, but where accurate heights become a critical issue it may be necessary to return to site, as a separately commissioned exercise, to collect accurate measurements with the aid of optical instruments.
- Trunk/stem diameters (**Diam**) are measured in millimetres **at 1.5m above ground level** – where the tree is inaccessible the diameter is estimated as indicated by suffix #
- Radial crown spread assessments (**Brch Sprd**) are estimated in metres from the centre of the trunk/group to each of the four primary points of the compass (**N**-north; **E**-east; **S**-south and **W**-west) in order to achieve a representation of the crown shape which will be shown on the accompanying tree survey plan. These provide a general guide as to the main bulk outline of a tree/groups crown but **are not tape measured dimensions**. These would only be undertaken as part of a separately commissioned exercise, where precise dimensions are critical to the project at hand.
- Both the canopy ground clearance (**GC**) and the height & compass direction of the lowest major branch (**LMB**) are estimated and shown in metres
- An assessment of a tree/groups ‘life stage’ (**LS**) is made in terms of its site specific maturity as part of the surrounding landscape, taking into account its overall shape and form in that setting, and is recorded thus :-
Y - Young tree/group; **SM** - Semi-Mature tree/group; **EM** - Early-Mature tree/group;
M – Mature tree/group; **OM** - Over – mature tree/group
- Data on the structural condition (**Condition Comments**) of the tree/group is provided to give its visual appearance and any significant health and safety issues.
- Details of any recommended tree works required at the time of survey is given under the heading – **Preliminary Management Recommendations**.
- An estimate of a tree/groups remaining contribution in years (**RC**) is made and is recorded thus :-
0-5; 5-10; 10-20; 20-30; 30-40 or **>40** years.

- The category grading (**Cat**) for each tree/group is assessed according to the criteria provided within **BS5837:2012**. The assessment is made of the tree/group in its current condition and within the environment encountered bearing in mind its suitability for retention as part of any future proposed

development; although the exact layout detail of any specific scheme will not be known at the time of surveying. The trees have been classified into one of four categories and colour coded as BS5837 recommends :- **U** (dark red); **A** (light green); **B** (mid-blue) and **C** (grey). Please note that suffixed numerical sub-categories are also applied for guidance only and do not carry any cumulative or increased value for the tree/group. This colour coding scheme will be applied to all drawings provided.

Table 1 – Cascade chart for tree quality assessment

Category and definition	Criteria			Colour on plan
Trees unsuitable for retention				
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years.	<ul style="list-style-type: none"> Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (i.e. where, for whatever reason the loss of companion shelter cannot be mitigated by pruning) Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve.			Dark Red
Trees to be considered for retention				
	Criteria – Subcategories			
	1	2	3	
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual, or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and /or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	Light Green
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in the category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value	Mid Blue
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value, and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value	Grey



BH 2

Combined
Tree Survey Plan BJH 01
&
Root Constraints Plan BJH 02



BH 3

Combined

Tree Retentions and Removals Plan BJH 03

&

Tree Protection Plan BJH 04

+ Examples of NO DIG Porous Surfacing



BH 4

Qualifications & Experience



QUALIFICATIONS AND EXPERIENCE

- My name is **Bernie Harverson** and I am a self employed independent arboricultural consultant in private practice.
- I take instructions primarily in the South of England but also on occasions work nationwide and abroad and have offices at : –
The Granary, White Chimney Row, Westbourne PO10 8RS
- I hold the following arboricultural qualification – **National Diploma in Arboriculture (Royal Forestry Society – 1976)**
- I have **fifty-two (52)** years of practical and managerial experience in the arboricultural industry including periods in both the public and private sectors.
- My Local Government sector experience comprises one year as a tree surgeon with Brighton Parks and nine years spent in Arboricultural Officer posts with both Westminster City Council and Portsmouth City Council.
- My past practical experience in the private sector includes two years at Tilhill Forest Nursery and over ten years for various companies as a Climbing Arborist/Tree Surgeon.
- Managerial work in the private sector includes two years as manager of Beechings Tree Surgeons and twelve years with CBA Trees as Managing Director & Senior Arboricultural Consultant.
- As an independent self employed Arboricultural Consultant I now provide a comprehensive range of services including :-
Tree surveys, appraisals, assessments and inspections with particular reference to planning and development and tree safety audits with a service offered as a climber to undertake full climbing inspections to better understand the condition of a given tree before prescribing a management strategy.
- I also undertake litigation work appearing as an Expert Witness in Court Actions and at Planning Appeals, Hearings and Public Local Inquiries.

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