

Tree ref. no.	Species	Height (m.)	Stem Count	Stem diameter or equivalent (mm.)	Branch spread (m.)				Ht. of crown clearance (m.)	Physiological condition	Estimated remaining contribution (years)	Category grading		Structural condition	Preliminary management recommendations
					N	E	S	W							
56	Sycamore	13	1	430	4.5	4.5	3.5	4	MA	Poor	10-20	C	1	Localised compaction and wounding to surface roots. Poor upper crown growth.	
57	Hawthorn	5.5	3	140	3	2	2	1.5	MA	Fair	20-40	C	2	Multi stemmed near ground level. Heavily ivy clad.	
58	Sycamore	13	2	450	4	5	1	4	MA	Fair	10-20	C	1	Twin stemmed at 50cm. Potentially weak join. Heavily crowded to S/SE.	
59	Sycamore	13	2	500	3.5	5.5	2	5	MA	Fair	20-40	C	2	Twin stemmed at 50cm. One stem dominant. Crowded to S. Crown lifted.	
60	Hawthorn	6	1	160	3.5	4	2.5	2.5	MA	Fair	40+	C	2	Overtopped. Twin stemmed at 1.7m.	
61	Lime	18	1	780	2.5	4	7	2	M	Fair	20-40	B	2	Basal epicormics pruned back. Twin stemmed at 2m with potentially weak join. Crowded. Leaning E. Pruned in last 2-3 years.	
62	Lime	18	1	700	4	2.5	5	2.5	M	Fair	20-40	B	2	Ground compaction. Heavily reduced in last few years. Basal epicormics pruned back. Several large wounds with decay to S. below 4m.	
63	Lime	18	1	670	3.5	2.5	4.5	3	M	Fair	20-40	B	2	Ground compaction. Basal epicormics cut back. Crown lifted an heavily reduced in past three years.	

Tree ref. no.	Species	Height (m.)	Stem Count	Stem diameter or equivalent (mm.)	Branch spread (m.)				Age class	Ht. of crown clearance (m.)	Physiological condition	Estimated remaining contribution (years)	Category grading		Structural condition	Preliminary management recommendations
					N	E	S	W								
64	Sorbus sp.	4.5	1	140	2	2	1.5	2	Y	2+	Fair	20-40	C	2		
65	Rowan	5.5	1	150	2	1	0.5	1.5	Y	2+	Poor	10-20	C	1	Surface root wounding. Poor growth.	
66	Lime	8	1	310	3	4.5	4.5	3	Y	3+	Poor	<10	U		Crown raised in past. Surface root wounding. Weak limb unions.	Fell.
67	Lime															
68	Lime															
69	Sycamore	15	1	720	5.5	5	4.5	5	M	2.5+	Fair	20-40	B	2	Localised intense compaction and surface root wounding. Lower stem wounding to W.	
70	Western Red Cedar	18	1	c600	3	5.5	2.5	c4	M	1.5+	Poor	10-20	C	1	Ivy clad lower stem. Thin upper crown.	
71	Sycamore	15	Multi	730	4	7	5.5	c6	M	3+	Fair	20-40	C	1	Three stems near ground level with central stem stunted. Past crown lifting and ivy severance. Localised decay at base to W. Potentially weak unions.	Consider overall crown reduction by one third.
72	Western Red Cedar	15	1	c350	2	3	0.5	1	MA	3+	Poor	10-20	C	1	Crowded to S. Thin foliage. Heavily ivy clad therefore no basal inspection. Leaning N.	

Tree ref. no.	Species	Height (m.)	Stem Count	Stem diameter or equivalent (mm.)	Branch spread (m.)				Age class	Ht. of crown clearance (m.)	Physiological condition	Estimated remaining contribution (years)	Category grading	Structural condition	Preliminary management recommendations
					N	E	S	W							
73	Cedar	21	1	1720	7	11	13	5	V	6+	Good	40+	A	1+2	Extensive past surgery with removal of large lower limbs and over building to S. Decay in several. Slight lean to E.
74	Cedar	22	1	1260	12	12	3	5.5	V	10+	Good	40+	A	1+2	Bee nest in decayed pruning wound at 6m to NW. Crowded to S. Past crown raising and dead wooding. Minor dieback.
75	Horse Chestnut	9	1	330	5	5	4	4.5	Y	1.8+	Good	40+	B	2	Twin stemmed at 2.2m.
76	Horse Chestnut	9	1	360	5	4.5	4.5	5.5	Y	1.8+	Good	40+	B	2	
77	Horse Chestnut	8	1	320	3.5	5	4	3.5	Y	1.8+	Good	40+	B	2	
78	Lime	18	1	970	5	4.5	4	3.5	M	3+	Fair	20-40	B	2	Heavily crown reduced in last three years. Dense basal epicormics. Slight lean to NE.
79	Sycamore	10	1	270	2	2.5	3.5	3	Y	3+	Good	40+	B	2	
80	Yew	12	1	620	4	4	4	4.5	MA	1+	Good	40+	B	2	Three stems at 1.5m with central stem dominant. Decay in E. stem.
81	Robinia	16	1	420	2.5	3	2	6	MA	5+	Fair	20-40	B	2	Recently torn out limb to N. Hung up in T80.

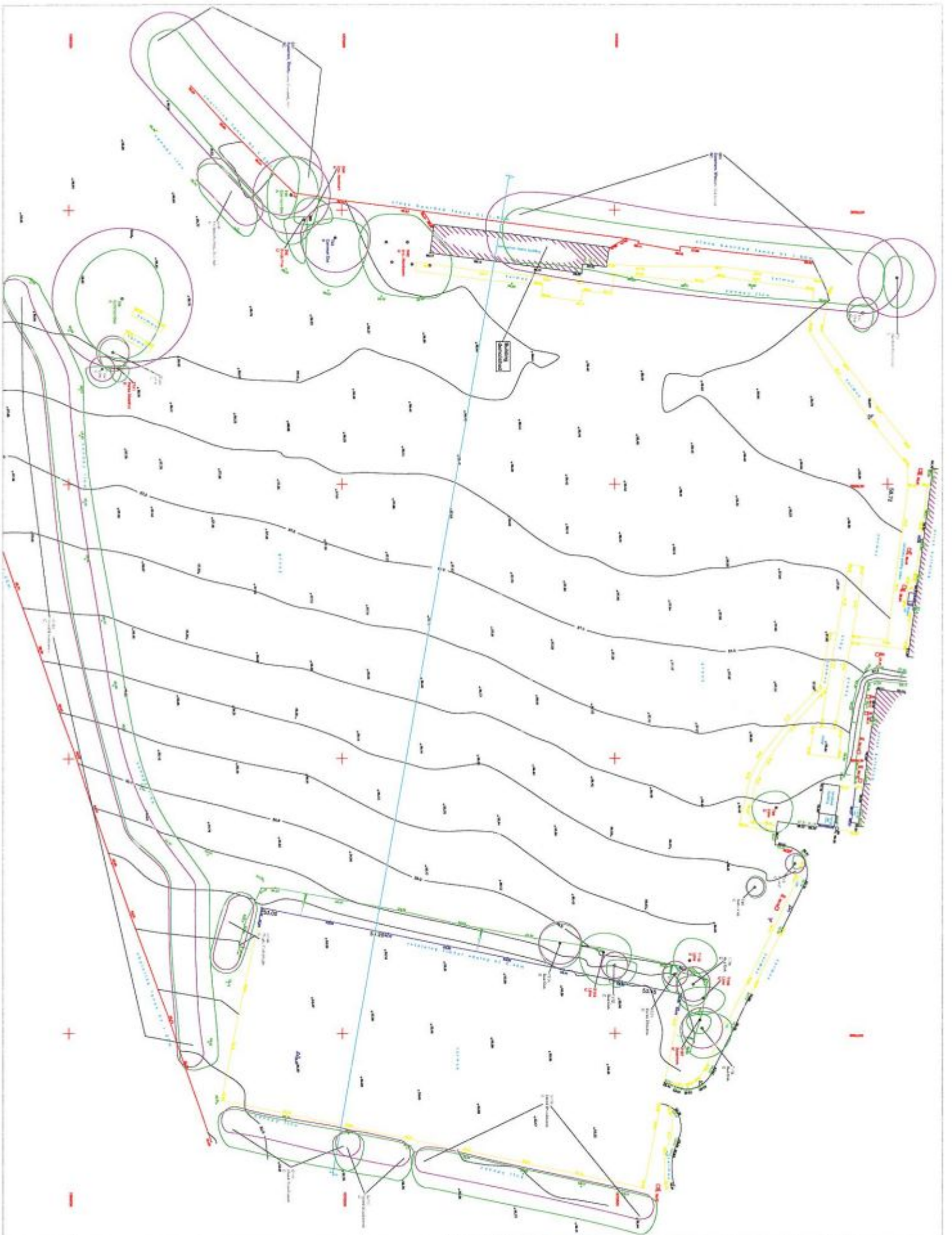
Tree ref. no.	Species	Height (m.)	Stem Count	Stem diameter or equivalent (mm.)	Branch spread (m.)				Ht. of crown clearance (m.)	Physiological condition	Estimated remaining contribution (years)	Category grading		Structural condition	Preliminary management recommendations
					N	E	S	W							
82	Norway Maple	14	1	450	3.5	3.5	4.5	3.5	3.5+	Fair	20-40	B	2	Twin stemmed at 3m with potentially weak union. Slight lean to E.	Install brace in upper crown.
83	Corsican Pine	9	1	260	1	3	2.5	2.5	1.4+	Poor	20-40	C	2	Heavily crowded to N.	
84	Yew	7.5	1	340	4.5	3.5	3.5	3.5	1+	Good	40+	B	2	Crowded to S.	
85	Yew	7	1	550	4.5	5.5	5	6	1.3+	Good	40+	B	2	Twin stemmed from ground level.	
86	Ornamental Cherry	3.5	1	150	4.5	3	3.5	4.5	1+	Poor	10-20	C	1	Leaning heavily W. Low crown.	Raise crown to 2m over pavement or fell.
G87	Robinia	<5	Multi	<100	4	0.5	2	3.5	1+	Poor	10-20	C	1	Suppressed. Self seeded. Low quality trees.	
88	Beech	20	1	860	6	6.5	6.5	4	3+	Good	40+	A	2		
89	Common Oak	14	1	c850	4.5	c4	6	6	4+	Poor	<10	U		Ivy clad base therefore no basal inspection. Extensive crown dieback and deadwood.	Ownership unclear. Fell or deadwood and reduce by one third and balance.
90	Pine	8	1	240	2	3.5	2.5	1.5	2+	Fair	20-40	C	2	Lower stem wounding. Slight lean to E.	

Tree ref. no.	Species	Height (m.)	Stem Count	Stem diameter or equivalent (mm.)	Branch spread (m.)				Age class	Ht. of crown clearance (m.)	Physiological condition	Estimated remaining contribution (years)	Category grading	Structural condition	Preliminary management recommendations
					N	E	S	W							
G91	Sycamore, Western Red Cedar	<20	1/Multi	<600	<4	<6	<4	<4	M/MA	2+	Variable	10-40+	B/C 1	Northern most Sycamore badly squirrel damaged. No basal inspection or full inspections due to dense undergrowth/ivy. Dieback in upper crowns of Western Red Cedar.	Fell Sycamore
G92	5no. Hornbeam	<12	1	<400	<4	<6	<5	<5	MA	2+	Poor	<10	U	Several twin stemmed from under 2m. All with decayed wounds. Squirrel damage and weak unions.	Fell all.
93	Common Oak	14	1	530	6	9	6	3.5	MA	2.5+	Fair	40+	B 2	Crowded to W. Slight lean to E. Deadwood.	Deadwood crown.
G94	2no. Hawthorn	<9	1	<230	4	1	3	3.5	MA	2.5+	Poor	<10	U	Suppressed. Ivy clad. Larger stem heavily decayed.	Fell both.
95	Scots Pine	12	1	640	0.5	8	3.5	0.5	M	5+	Poor	<10	U	Leaning heavily E. Lower stem wounding. Extensive deadwood. Woodpecker hole at 7m and upper limb wounding.	Fell.
96	Common Oak	17	1	590	5	9	4.5	c7	MA	5+	Good	40+	A 2	Minor deadwood.	
G97	Sycamore, Thorn, Horse Chestnut, Ash	<18	1	<600	<3	<8	<4	<4	MA	1+	Unconfirmed	10-40+	B/C 2	Variable row of trees located in adjoining gardens therefore no basal inspection. Several leaning heavily over boundary or with long end weighted limbs.	Potential to cut back heavily leaning stems/over extended limbs back towards boundary.

Tree ref. no.	Species	Height (m.)	Stem Count	Stem diameter or equivalent (mm.)	Branch spread (m.)				Age class	Ht. of crown clearance (m.)	Physiological condition	Estimated remaining contribution (years)	Category grading	Structural condition	Preliminary management recommendations
					N	E	S	W							
G98	Hornbeam, Pine, 2no. Ash	<10	1	<250	<2	<5	<3	<2	Y	1.5+	Variable	20-40+	C 2	Crowded trees. Two ash to S. of group better quality.	
99	Common Oak	16	1	1070	7.5	11	8.5	9	M	2+	Good	40+	A 2	Deadwood.	Deadwood crown.
100	Lime	8	1	250	3	3.5	2.5	2.5	Y	2+	Fair	40+	C 2	Heavily crowded.	
101	Horse Chestnut	6	1	160	2	2.5	1.5	0.5	Y	2+	Poor	<10	U	Crowded. Extensive lower stem wounding.	
102	Lime	4.5	Multi	190	3.5	3.5	3	0.5	Y	0+	Poor	10-20	C 1	Crowded. Multi stemmed from under 50cm with potentially weak unions.	
G103	Mixed Broadleaves	<12	1	<200	<5	<3	<2	<3	Y	0+	Variable	10-40+	C 2	Heavily crowded. Most developed to N.	
G104	Thorn, Field Maple	<10	1/Multi	<200	<3	<3	<3	<3	Y	0+	Variable	10-40+	C 2	Crowded. Drawn up slender stems. Ground disturbance within 1m to N.	
G105	Mixed Broadleaves	<10	1/Multi	<200	<3	<5	<3	<2	Y	0+	Variable	10-40+	C 2	Crowded linear group. Most multi stemmed. Cut back to W. in past couple of months.	
106	Red Oak	12	1	310	5.5	5.5	4	3	Y	3+	Fair	40+	C 2	Heavily crowded. Upcurved secondary stems.	
107	Sycamore	12	2	250	2	2.5	2.5	1	Y	5+	Poor	<10	U	Twin stemmed at 1m with weak unions. Drawn up high crown.	Fell.

Tree ref. no.	Species	Height (m.)	Stem Count	Stem diameter or equivalent (mm.)	Branch spread (m.)				Ht. of crown clearance (m.)	Physiological condition	Estimated remaining contribution (years)	Category grading	Structural condition	Preliminary management recommendations
					N	E	S	W						
108	Lime	12	Multi	440	4	3	4.5	2	3+	Poor	<10	U	Multi stemmed from under 1.2m with weak unions and rising stems.	Fell.
109	Red Oak	12	1	260	3	4	3	1.5	5+	Good	40+	C 2	Crowded. Twin stemmed at 3.5m.	
110	Lime	9	1	300	5	2.5	3	4	2.5+	Poor	<10	U	Three stems at 2.5m with weak unions.	Fell.
111	Horse Chestnut	7	2	190	0.5	3.5	2.5	1.5	2+	Poor	10-20	C 1	Twin stemmed near ground level. Crowded.	
112	Red Oak	9	1	200	4	4	1.5	1	3+	Poor	40+	C 1	Heavily crowded.	
113	Lime	8	2	490	5	6	4.5	3.5	2.5+	Poor	<10	U	Twin stemmed from 1.1m with weak union. Multi stemmed from under 2m with weak unions.	Fell.
114	Red Oak	8	1	320	4	4.5	4	3.5	2.5+	Fair	20-40	C 2	Twin stemmed at 2m with potentially weak join. Becoming ivy clad.	

APPENDIX 2



1. The site plan is a representation of the proposed landscape design for the park. It is not a guarantee of the final result. The final result will be determined by the construction and the maintenance of the park.

TREE CONTINGENCY PLAN

1. - 1114 - Tree numbers

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DRAWING NO. 148.58/01
 SHEET 2
 SCALE: 1:500 at A3
 Author: S. N. N.
 14/03/2014

APPENDIX 3



Project No. 100-000000-00
 Project Name: PARK AVENUE SCHOOL
 Project Location: 100-000000-00
 Project Date: 10/1/2014
 Project Status: 100-000000-00

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APPENDIX 4

TABLE OF BS CALCULATED ROOT PROTECTION AREAS (RPAs)
AT

PURBROOK PARK SCHOOL, PARK AVENUE, PURBROOK, WATERLOOVILLE, HAMPSHIRE

Tree no.	Species	BS Category	Stem diameter or calculated equivalent (mm.)	BS calculated radial equivalent root protection area (m.)	BS calculated total RPA (m ²)
1	Horse Chestnut	B	c.900	c.10.8	c.366
2	Laburnum	U	-	-	-
3	Holm Oak	A	<1800	15*	707
4	Sycamore	B	c.400	c.4.8	c.72
5	Sycamore	C	c.150	c.1.8	c.10
6	Monterey Cypress	B	c.550	c.6.6	c.137
7	Sycamore	C	c.350	c.4.2	c.55
8	Sycamore	C	c.180	c.2.2	c.15
9	Monterey Cypress	C	c.400	c.4.8	c.72
10	Scots Pine	C	c.700	c.8.4	c.222
11	Common Oak	B	c.850	c.10.2	c.327
12	Monterey Cypress	C	c.250	c.3	c.28
13	Monterey Cypress	U	-	-	-
14	Monterey Cypress	U	-	-	-
15	Monterey Cypress	B	c.700	c.8.4	c.222
16	Monterey Cypress	C	c.700	c.8.4	c.222
17	Portugal Laurel	C	c.340	c.4.1	c.53
18	Holly	C	260	3.1	30
19	Sycamore	C	210	2.5	20
20	Sycamore	U	-	-	-
21	Rowan	C	190	2.3	17
22	Sweet Chestnut	B	390	4.7	69
23	Cypress var.	C	c.200	c.2.4	c.18
24	Sweet Chestnut	B	460	5.5	95
25	Holly	C	360	4.3	58
26	Lawson Cypress var.	C	c.250	c.3	c.28
G27	Cypress	C	<150	<1.8	<10
28	Hazel	U	-	-	-
29	Cypress var.	C	c.200	c.2.4	c.18
30	Ash	C	c.280	c.3.4	c.36
31	Lime	B	c.1000	c.12	c.452
32	Sycamore	B	c.300	c.3.6	c.41
G33	Yew	C	<80	<1	<3
34	Hawthorn	C	c.250	c.3	c.28
35	Hawthorn	C	c.160	c.1.9	c.11
36	Hawthorn	U	-	-	-
37	Common Oak	C	c.300	c.3.6	c.41
38	Sycamore	C	c.250	c.3	c.28
39	Sycamore	U	-	-	-
40	Sycamore	C	c.200	c.2.4	c.18
41	Elm	C	c.250	c.3	c.28
42	Common Oak	C	210	2.5	20
43	Sycamore	U	-	-	-
44	Common Oak	C	c.200	c.2.4	c.18
G45	Sycamore	C/U	<200	<2.4	<18
46	Common Oak	C	490	5.9	109
47	Sycamore	B	450	5.4	92
48	Hawthorn	C	140	1.7	9

* RPA capped at 15m radius

TABLE OF BS CALCULATED ROOT PROTECTION AREAS (RPAs)
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PURBROOK PARK SCHOOL, PARK AVENUE, PURBROOK, WATERLOOVILLE, HAMPSHIRE

Tree no.	Species	BS Category	Stem diameter or calculated equivalent (mm.)	BS calculated radial equivalent root protection area (m.)	BS calculated total RPA (m ²)
49	Hawthorn	C	150	1.8	10
50	Common Oak	B	c.400	c.4.8	c.72
51	Elm	U	-	-	-
G52	Hawthorn	C	<250	<3	<28
53	Hawthorn	U	-	-	-
54	Sycamore	C	210	2.5	20
55	Lawson Cypress	C	c.250	c.3	c.28
56	Sycamore	C	430	5.2	85
57	Hawthorn	C	140	1.7	9
58	Sycamore	C	450	5.4	92
59	Sycamore	C	500	6	113
60	Hawthorn	C	160	1.9	11
61	Lime	B	780	9.4	278
62	Lime	B	700	8.4	222
63	Lime	B	670	8	201
64	Sorbus sp.	C	140	1.7	9
65	Rowan	C	150	1.8	10
66	Lime	U	-	-	-
67	Lime	U	Felled		
68	Lime	B	Felled		
69	Sycamore	B	720	8.6	232
70	Western Red Cedar	C	c.600	c.7.2	c.163
71	Sycamore	C	730	8.8	243
72	Western Red Cedar	C	c.350	c.4.2	c.55
73	Cedar	A	1720	15*	707
74	Cedar	A	1260	15*	707
75	Horse Chestnut	B	330	4	50
76	Horse Chestnut	B	360	4.3	58
77	Horse Chestnut	B	320	3.8	45
78	Lime	B	970	11.6	423
79	Sycamore	B	270	3.2	32
80	Yew	B	620	7.4	172
81	Robinia	B	420	5	79
82	Norway Maple	B	450	5.4	92
83	Corsican Pine	C	260	3.1	30
84	Yew	B	340	4.1	53
85	Yew	B	550	6.6	137
86	Ornamental Cherry	C	150	1.8	10
G87	Robinia	C	<100	<1.2	<5
88	Beech	A	860	10.3	333
89	Common Oak	U	-	-	-
90	Pine	C	240	2.9	26
G91	Sycamore, Western Red Cedar	B/C	<600	<7.2	<163
G92	5no. Hornbeam	U	-	-	-
93	Common Oak	B	530	6.4	129
G94	2no. Hawthorn	U	-	-	-
95	Scots Pine	U	-	-	-

* RPA capped at 15m radius

TABLE OF BS CALCULATED ROOT PROTECTION AREAS (RPAs)
AT

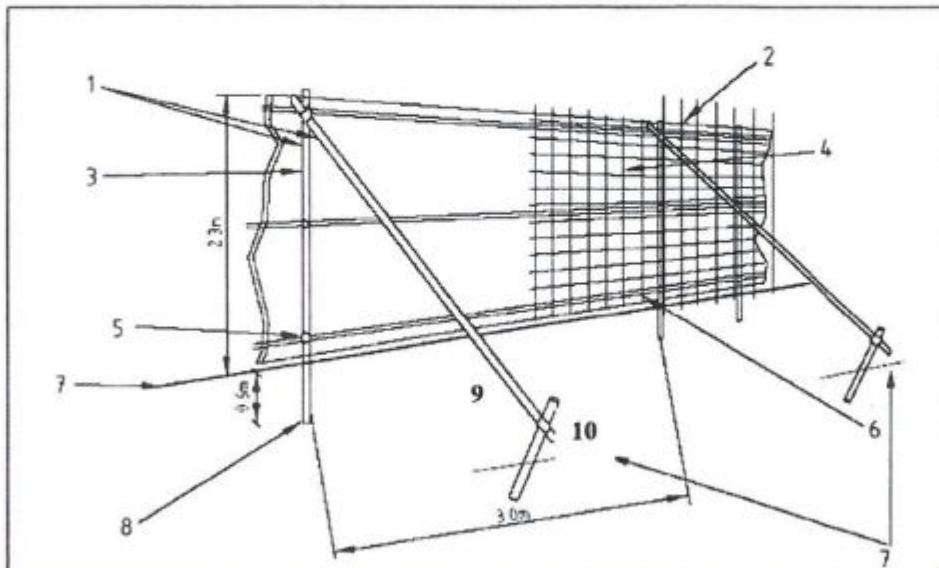
PURBROOK PARK SCHOOL, PARK AVENUE, PURBROOK, WATERLOOVILLE, HAMPSHIRE

Tree no.	Species	BS Category	Stem diameter or calculated equivalent (mm.)	BS calculated radial equivalent root protection area (m.)	BS calculated total RPA (m ²)
96	Common Oak	A	590	7.1	158
G97	Sycamore, Thorn, Horse Chestnut, Ash	B/C	<600	<7.2	<163
G98	Hornbeam, Pine, 2no. Ash	C	<250	<3	<28
99	Common Oak	A	1070	12.8	515
100	Lime	C	250	3	28
101	Horse Chestnut	U	-	-	-
102	Lime	C	190	2.3	17
G103	Mixed Broadleaves	C	<200	<2.4	<18
G104	Thorn, Field Maple	C	<200	<2.4	<18
G105	Mixed Broadleaves	C	<200	<2.4	<18
106	Red Oak	C	310	3.7	43
107	Sycamore	U	-	-	-
108	Lime	U	-	-	-
109	Red Oak	C	260	3.1	30
110	Lime	U	-	-	-
111	Horse Chestnut	C	190	2.3	17
112	Red Oak	C	200	2.4	18
113	Lime	U	-	-	-
114	Red Oak	C	320	3.8	45

* RPA capped at 15m radius

APPENDIX 5

Minimum Tree Protection Barrier Requirements / Fencing Example (BS5837:2012)



1. Scaffold poles	6. Wire twisted and secured on inside face of fencing to avoid easy dismantling
2. Uprights to be driven firmly into ground.	7. Ground level
3. panels secured to uprights with wire ties and where necessary standard scaffold clamps	8. Approx 0.6m driven into the ground
4. Weldmesh and/or exterior grade 18mm plywood wired to the uprights and horizontals	9. Angled bracing scaffold poles
5. Standard scaffold clamps	10. Ground anchor as below



Ground Anchor

EXAMPLE OF FENCING SIGNAGE

