

ON BEHALF OF G.C.K TREWORKS

Bicester Heritage

Tree Survey for Safety Works

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This is an initial report to highlight any subsequent safety issues - posed by trees - to patrons, tenants and members of the public on the site of Bicester Heritage.

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Key to Explain Abbreviations

Age Class

Y = Young, A tree less than ten years old.

SM = Semi Mature, A tree less than one third of its normal life expectancy.

M = Mature, A tree with ultimate crown proportions between one third and total life expectancy.

OM = Over Mature, A tree older than its natural life expectancy with crown proportions declining.

V = Veteran, A tree of biological, aesthetical and cultural importance.

Dead Wood Classification

Minor = Dead wood with a diameter of 2cms or less.

Moderate = Dead wood with a diameter greater than 2cms, up to 5cms.

Major = Dead wood greater than 5cms in diameter.

DBH

Diameter at Breast Height = The location at which the stem diameter is measured.
(DBH = 1.3m)

Condition – Describes briefly that the physiological and structural form of the tree is

Poor = Significantly compromised.

Fair = Showing evidence of functional disruption.

Good = Functioning as would be expected in normal conditions.

1.0 - Introduction

1.1 - I was approached by GCK Tree Works and asked to carry out a report on the trees on the land that is Bicester Heritage.

1.2 - My contact on this site was Brian Pallett. On meeting with him we discussed and agreed that the following course of action would result in the trees on the above mentioned site being tagged, identified and mapped so as to have an understanding of tree stock and their locations.

1.3 - Following this a brief description of significant issues found with the trees along with any recommendations of work to be carried out on them.

2.0 - Report Limitations

2.1 - The trees within this report were viewed from ground level. Binoculars were used only when it was deemed that there was obvious reason to see into the crown for further investigation.

2.2 - No soil or root samples were taken from any of the areas visited within this report.

2.3 - This is not a report to determine any present or potential subsidence issues.

2.4 - The trees within this report were assessed using the VTA method (visual tree assessment). A soft mallet was used to aid investigation of any areas subject to obvious potential decay or differentiation in cambial density. No decay detection was carried out, neither was any probing or drilling to identify cavities or soft areas of timber.

2.5 - No investigative measures have been carried out to ascertain whether the trees fall within a Conservation Area or if they are protected by individual T.P.Os.

2.6 - No inspections have been undertaken to identify the presence of bats or other endangered species which may live/roost within or in close proximity of the trees.

2.7 - Information within this report is valid for a period of 12 months from the date it was carried out.

2.8 - It should be remembered that trees are natural living organisms which continually change their form having constantly changing effects on their surroundings.

2.9 - The findings of this report are discussed under what one would consider 'normal conditions'.

3.0 - Observations

3.1 - For a brief description of tree observations, see comments on Table 1.

3.2 - Throughout this site I have seen many areas with raised soil areas, some deeper than others depending on the work which may have been carried out in each location.

3.3 - Raising soil levels around an already established root system can have a detrimental effect on the tree.

3.4 - Root systems are vital to the health and longevity of trees.

3.5 - All plants need water, oxygen, and nutrients. These are most readily available near the soil surface where precipitation infiltrates the soil and oxygen from the atmosphere diffuses into the porous soil. Most roots, therefore, especially the important, tiny, absorbing roots, proliferate near the soil surface.

3.6 - The majority of a large tree's roots are in the upper 45 – 60cms of soil. Changing the level by only a few centimeters can upset the function of water uptake and respiration. This can take several years to have a visible negative effect on the tree which can often be irreversible.

3.7 - Soil from recent excavation work has been spread out in localized areas. Pieces of severed roots can be observed throughout this top layer of soil indicating significant root damage caused by adjacent excavation work.

4.0 - Recommendations

4.1 - Carry out recommendations as per Table 1.

4.2 - The crown raising work may not be considered emergency work but I have included it within the 6 month time frame. This is because - on this site – construction work is underway and I felt it reasonable to carry out this work soon before construction traffic damaged lower branches leading to future issues.

4.3 - Some of the poplar trees which are listed to come down are given longer time frames. Again these are not all classed as emergency works but are the first phase trees to come out based on them outgrowing their locations.

4.4 - In addition to any trees that are felled, it is optional as to whether the stumps are ground out or not.

4.5 - Poisoning of any stumps on this site would NOT be advisable due to the close proximity of similar species.

4.6 - Any pruning work should ideally be carried out mid to late summer.

4.7 - As excavation work continues on this site, particular care should be taken to minimise or prevent root disturbance and damage.

4.8 - Any excavated soil should be removed from the area and NOT spread around the existing trees as it has been recently.

4.9 – Table 1.

Tree No.	Species	Comments	Work Required	Frequency
1002	Laburnum sp.		Reduce branch endings by approx 1 to 2 metres. Remove moderate to major deadwood.	12 months
1003	Prunus avium	Historic buttress damage - not significant.	Reduce branch endings by approx 1 to 2 metres. Remove moderate to major deadwood.	6 months
1004	Sorbus sp.	Historic buttress damage - not significant.	Remove moderate to major deadwood. Re-inspect in 12 months.	3 months
1005	Sorbus sp.	Cavities present.	Reduce branch endings by approx 1 to 2 metres. Remove moderate to major deadwood.	3 months
1006	Laburnum sp.	Laetiporus present.	Reduce branch endings by approx 1 to 2 metres. Remove moderate to major deadwood. Apply COBRA bracing, see Cobra Assembly diagram.	3 months
1007	Laburnum sp.	Historic buttress damage - not significant.	No action.	
1008	Laburnum sp.		No action.	
1009	Acer platanoides		No action.	
1010	Acer platanoides		No action.	
1011	Acer platanoides		No action.	
1012	Acer platanoides		No action.	
1013	Betula pendula	Historic buttress damage - not significant.	No action.	
1014	Acer pseudoplatanus		No action.	
1015	Acer platanoides		No action.	
1016	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1017	Acer platanoides	Significant inclusions.	Fell to ground level.	A.S.A.P

1018	Acer pseudoplatanus		Lowest limb to be removed back to source, building side.	6 months
1019	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1020	Acer pseudoplatanus		No action.	
1021	Acer platanoides		No action.	
1022	Acer platanoides		No action.	
1023	Acer platanoides		No action.	
1024	Acer pseudoplatanus		Remove moderate to major deadwood.	6 Months
1025	Acer pseudoplatanus		No action.	
1026	Acer pseudoplatanus		No action.	
1027	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1028	Acer pseudoplatanus		No action.	
1029	Acer platanoides		No action.	
1030	Acer platanoides	Signs of Pseudomonas, not significant at present.	No action.	
1031	Acer platanoides		No action.	
1032	Acer platanoides		Remove moderate to major deadwood.	6 months
1033	Acer platanoides		No action.	
1034	Acer platanoides		Remove moderate to major deadwood. Crown raise to 4m over tarmac.	6 months
1035	Betula pendula	Lowest limb over road only.	Reduce branch endings by approx 1 to 2 metres. Remove moderate to major deadwood.	6 months
1036	Betula pendula		No action.	
1037	Betula pendula	Crown die-back, not significant at present.	No action.	
1038	Acer platanoides	Raised soil around root plate, sparse crown.	Monitor condition.	
1039	Acer pseudoplatanus	Significant crown die-back, decay pocket present.	Fell to ground level.	3 months

1040	Acer pseudoplatanus	Kretzschmaria present,	Fell to ground level.	3 months
1041	Acer pseudoplatanus		No action.	
1042	Acer pseudoplatanus		No action.	
1043	Acer pseudoplatanus		No action.	
1044	Acer pseudoplatanus		No action.	
1045	Acer pseudoplatanus		No action.	
1046	Acer pseudoplatanus	Bark damage from ivy removal. Hanging deadwood.	Remove moderate to major deadwood.	6 months
1047	Acer pseudoplatanus		No action.	
1048	Acer pseudoplatanus		No action.	
1049	Acer pseudoplatanus		No action.	
1050	Acer platanoides		No action.	
1051	Acer pseudoplatanus		No action.	
1052	Acer pseudoplatanus	Historic buttress damage - not significant.	Monitor condition.	
1053	Acer pseudoplatanus		No action.	
1054	Acer pseudoplatanus		No action.	
1055	Acer pseudoplatanus		Crown raise to 4m over tarmac.	6 months
1056	Acer pseudoplatanus		No action.	
1057	Carpinus betulus		No action.	
1058	Chamaecyparis lawsoniana		No action.	
1059	Populus x canadensis	Outgrowing location, suppressing other species.	Fell to ground level.	12 months
1060	Chamaecyparis lawsoniana		No action.	

1061	Acer pseudoplatanus		No action.	
1062	Acer platanoides		No action.	
1063	Acer pseudoplatanus		No action.	
1064	Acer platanoides	Poor form, crown die back.	Fell to ground level.	3 months
1065	Thuja occidentalis		No action.	
1066	Carpinus betulus		No action.	
1067	Acer platanoides	Poor form, crown die back.	Fell to ground level.	3 months
1068	Carpinus betulus	Dead hanging branches present.	Remove moderate to major deadwood.	6 months
1069	Carpinus betulus		Crown raise to 4m over tarmac.	6 months
1070	Carpinus betulus		No action.	
1071	Carpinus betulus	Large wound on stem, appears to be occluding.	Crown raise to 4m over tarmac.	6 months
1072	Acer pseudoplatanus		No action.	
1073	Acer pseudoplatanus		No action.	
1074	Carpinus betulus		No action.	
1075	Acer pseudoplatanus		No action.	
1076	Acer platanoides		Lowest limb over tarmac to be removed back to source.	6 months
1077	Acer platanoides		No action.	
1078	Acer platanoides		No action.	
1079	Acer platanoides		No action.	
1080	Acer platanoides		No action.	
1081	Acer platanoides		Remove moderate to major deadwood.	6 months
1082	Acer platanoides		No action.	
1083	Acer platanoides		No action.	
1084	Acer platanoides		No action.	
1085	Acer platanoides		Cut back branch endings from wires to give 1 meter clearance.	3 months
1086	Acer platanoides		Remove moderate to major deadwood.	6 months
1087	Acer platanoides		No action.	
1088	Acer platanoides		No action.	
1089	Acer platanoides		No action.	
1090	Acer platanoides		No action.	

1091	Acer platanoides		No action.	
1092	Acer platanoides		No action.	
1093	Acer platanoides		No action.	
1094	Acer platanoides		No action.	
1095	Acer platanoides		Remove moderate to major deadwood.	6 months
1096	Acer platanoides		No action.	
1097	Acer platanoides		No action.	
1098	Acer platanoides	Cavity present at approx 4.5m, drive side.	Climb and inspect to assess depth of cavity.	3 months
1099	Betula pendula		No action.	
1100	Prunus cerasifera		No action.	
1101	Prunus cerasifera		No action.	
1102	Prunus avium		Remove moderate to major deadwood.	6 months
1103	Prunus cerasifera	Possible Laetiporus, lost limbs, poor form.	Fell to ground level.	3 months
1104	Aesculus hippocastanum		Remove moderate to major deadwood.	6 months
1105	Prunus cerasifera		No action.	
1106	Betula pendula		Cut back branch endings from wires to give 1 meter clearance.	3 months
1107	Acer platanoides		Remove moderate to major deadwood.	
1108	Betula pendula	Pseudomonas present, bark necrosis.	Monitor.	12 months
1109	Betula pendula		No action.	
1110	Crataegus monogyna	Stem structure compromised.	Fell to ground level.	12 months
1111	Betula pendula		No action.	
1112	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1113	Acer pseudoplatanus		No action.	
1114	Acer pseudoplatanus		No action.	
1115	Ulmus sp.	Poor form, crown die back.	Fell to ground level.	6 months
1116	Acer pseudoplatanus		No action.	
1117	Acer pseudoplatanus		No action.	
1118	Betula pendula		No action.	

1119	Ulmus sp.		No action.	
1120	Betula pendula		No action.	
1121	Betula pendula		No action.	
1122	Betula pendula		No action.	
1123	Acer pseudoplatanus		No action.	
1124	Acer pseudoplatanus		No action.	
1125	Acer pseudoplatanus		Remove moderate to major deadwood. Crown raise to 4m over tarmac.	6 months
1126	Betula pendula		No action.	
1127	Betula pendula		No action.	
1128	Betula pendula		No action.	
1129	Aesculus hippocastanum		No action.	
1130	Aesculus hippocastanum		Remove moderate to major deadwood.	6 months
1131	Fraxinus excelsior		Building side only, prune branch endings from structure by 2 to 3 metres.	12 months
1132	Chamaecyparis lawsoniana		No action.	
1133	Carpinus betulus		No action.	
1134	Carpinus betulus		No action.	
1135	Thuja occidentalis		No action.	
1136	Carpinus betulus		No action.	
1137	Carpinus betulus	Building side only.	Prune branch endings from structure by 2 to 3 metres. Remove mod. to maj. deadwood.	12 months
1138	Thuja occidentalis		No action.	
1139	Carpinus betulus		Building side only, prune branch endings from structure by 2 to 3 metres.	12 months
1140	Chamaecyparis lawsoniana	Significant compression fork.	Fell to ground level.	6 months
1141	Carpinus betulus		No action.	
1142	Acer platanoides		Building side only, prune branch endings from structure by 2 to 3 metres.	12 months
1143	Acer pseudoplatanus	Dead hanging branches present.	Remove moderate to major deadwood.	3 months
1144	Prunus avium		Remove moderate to major deadwood. Crown raise to 4m over tarmac.	6 months
1145	Betula pendula		Cable brace between	12 months

			main limbs/stems.	
1146	Tilia sp.		Remove moderate to major deadwood.	6 months
1147	Betula pendula		No action.	
1148	Prunus avium		Remove moderate to major deadwood.	6 months
1149	Acer pseudoplatanus		No action.	
1150	Betula pendula		No action.	
1151	Acer pseudoplatanus		No action.	
1152	Laburnum sp.	Stem only, nearest green junction box.	Fell to ground level.	3 months
1153	Populus nigra 'Italica'	Outgrowing location, suppressing other species.	Fell to ground level.	12 months
1154	Acer platanoides		Remove moderate to major deadwood. Crown raise to 4m over tarmac.	6 months
1155	Acer platanoides		Remove moderate to major deadwood. Crown raise to 4m over tarmac.	6 months
1156	Populus x canadensis	Outgrowing location, suppressing other species.	Fell to ground level.	12 months
1157	Acer platanoides	Significant fungal attack, tree in decline.	Fell to ground level.	3 months
1158	Carpinus betulus		Building side only, prune branch endings from structure by 2 to 3 metres.	12 months
1159	Carpinus betulus		Crown raise to 4m over tarmac.	6 months
1160	Acer platanoides		Remove moderate to major deadwood.	6 months
1161	Carpinus betulus		No action.	
1162	Acer saccharinum		No action.	
1163	Acer platanoides		No action.	
1164	Acer platanoides		No action.	
1165	Carpinus betulus		Crown raise to 4m over tarmac.	6 months
1166	Acer platanoides		Crown raise to 4m over tarmac.	6 months
1167	Acer platanoides		Crown raise to 4m over tarmac.	6 months

1168	<i>Carpinus betulus</i>		No action.	
1169	<i>Acer pseudoplatanus</i>		Remove moderate to major deadwood.	6 months
1170	<i>Carpinus betulus</i>		Building side only, prune branch endings from structure by 2 to 3 metres.	12 months
1171	<i>Carpinus betulus</i>		No action.	
1172	<i>Thuja occidentalis</i>	Group of 10 trees.	No action.	
1173	<i>Thuja occidentalis</i>	Group of 3 trees.	No action.	
1174	<i>Acer platanoides</i>	Self set, 4x stems.	Fell to ground level.	6 months
1175	<i>Tilia</i> sp.		No action.	
1176	<i>Chamaecyparis lawsoniana</i>		No action.	
1177	<i>Tilia</i> sp.		Remove moderate to major deadwood.	6 months
1178	<i>Chamaecyparis lawsoniana</i>		No action.	
1179	<i>Chamaecyparis lawsoniana</i>		No action.	
1180	<i>Ulmus</i> sp.		Remove moderate to major deadwood.	6 months
1181	<i>Tilia</i> sp.		No action.	
1182	<i>Chamaecyparis lawsoniana</i>		No action.	
1183	<i>Acer pseudoplatanus</i>	Multi stemmed.	No action.	
1184	<i>Carpinus betulus</i>		Crown raise to 4m over tarmac.	6 months
1185	<i>Acer platanoides</i>		No action.	
1186	<i>Acer saccharinum</i>		No action.	
1187	<i>Chamaecyparis lawsoniana</i>		No action.	
1188	<i>Carpinus betulus</i>		Crown raise to 4m over tarmac.	6 months
1189	<i>Populus nigra</i> 'Italica'	Poor form, crown die back.	Fell to ground level.	3 months
1190	<i>Populus nigra</i> 'Italica'	Poor form, crown die back.	Fell to ground level.	3 months
1191	<i>Populus nigra</i> 'Italica'	Poor form, crown die back.	Fell to ground level.	3 months
1192	<i>Acer pseudoplatanus</i>		Crown raise to 4m over tarmac.	6 months
1193	<i>Populus x canadensis</i>		Above lamp column, remove branch back to source. Remove stubs.	12 months

1194	Chamaecyparis lawsoniana	Occluding seam on main stem. Cavity present.	Climb and inspect to assess depth of cavity, and significance of seam.	3 months
1195	Populus x canadensis	Slender specimen, buttress damage, poor form.	Fell to ground level.	3 months
1196	Populus x canadensis	Unidentifiable fruiting body at stem base.	Re-inspect in 3 to 4 months.	3 months
1197	Chamaecyparis lawsoniana		No action.	
1198	Populus x canadensis	Some buttress decay, important wind break tree.	Ascertain decay severity with resistograph, then re-assess.	6 months
1199	Populus x canadensis		No action.	
1200	Acer platanoides		Remove moderate to major deadwood.	6 months
1201	Chamaecyparis lawsoniana		No action.	
1202	Acer platanoides		No action.	
1203	Carpinus betulus		No action.	
1204	Tilia sp.		Remove branches back to source to give clearance of lamp column.	12 months
1205	Acer pseudoplatanus		No action.	
1206	Chamaecyparis lawsoniana		No action.	
1207	Acer pseudoplatanus		Crown raise to 4m over tarmac.	6 months
1208	Acer platanoides		No action.	
1209	Tilia sp.		No action.	
1210	Betula pendula	Dead hanging branches present.	Remove moderate to major deadwood.	6 months
1211	Chamaecyparis lawsoniana		No action.	
1212	Acer pseudoplatanus		No action.	
1213	Acer pseudoplatanus	Dead hanging branches present.	Remove moderate to major deadwood.	6 months
1214	Sorbus sp.		No action.	
1215	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1216	Acer platanoides		Remove moderate to major deadwood. Remove	6 months

			lowest lateral branches over tarmac.	
1217	Chamaecyparis lawsoniana		No action.	
1218	Prunus avium	Poor form, crown die back.	Fell to ground level.	6 months
1219				
1220	Betula pendula		No action.	
1221	Chamaecyparis lawsoniana		No action.	
1222	Prunus avium	Poor form, crown die back.	Fell to ground level.	6 months
1223	Betula pendula		No action.	
1224	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1225	Acer platanoides	Inappropriate location.	Fell to ground level.	12 months
1226				
1227				
1228	Carpinus betulus		No action.	
1229	Acer pseudoplatanus	Significant cavity at base.	Fell to ground level.	3 months
1230	Betula pendula		Remove moderate to major deadwood.	6 months
1231	Acer pseudoplatanus		No action.	
1232	Sorbus sp.		Remove moderate to major deadwood.	3 months
1233	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1234	Betula pendula	Poor form, crown die back.	Fell to ground level.	6 months
1235	Betula pendula		No action.	
1236	Betula pendula		No action.	
1237	Betula pendula		No action.	
1238	Betula pendula		No action.	
1239	Laburnum sp.		Remove moderate to major deadwood.	3 months
1240	Tilia sp.		Remove moderate to major deadwood.	3 months
1241	Acer pseudoplatanus	Poor form, crown die back.	Fell to ground level.	3 months
1242	Prunus avium		Remove moderate to major deadwood.	6 months
1243	Acer pseudoplatanus	Hollow stem.	Fell to ground level.	6 months

1244	Betula pendula	Stem cavity, not significant.	Remove moderate to major deadwood. Crown raise to 4m over tarmac. Reduce limb back from property by approx. 2 metres.	12 months
1245	Betula pendula	Stem bark damage, exudation, possible pseudomonas.	Monitor after removing moderate to major deadwood.	6 months
1246	Ulmus sp.		No action.	
1247	Acer pseudoplatanus		No action.	
1248	Ulmus sp.		No action.	
1249	Betula pendula		No action.	
1250	Thuja occidentalis		No action.	
1251	Betula pendula		Remove moderate to major deadwood. Crown raise to 4m over tarmac. Remove lowest limbs on building side. Reduce limbs back from property by approx. 2 metres.	6 months
1252	Chamaecyparis lawsoniana		No action.	
1253	Prunus avium		Prune branch endings from structure by 2 to 3 metres. Remove mod. to maj. deadwood.	12 months
1254	Prunus avium	Cavity on main stem at 2 metres. Worth retaining.	Reduce branch endings by approx 1 to 2 metres. Remove moderate to major deadwood.	6 months
1255	Betula pendula	Tree possibly in decline.	Reduce branch endings by approx 1 to 2 metres. Remove moderate to major deadwood.	6 months
1256	Betula pendula		No action.	
1257	Prunus avium	Branch and stem damage. Poor form.	Fell to ground level.	6 months
1258	Betula pendula		No action.	
1259	Sorbus sp.	Stem damage, poor form.	Fell to ground level.	6 months
1260	Betula pendula		No action.	
1261	Betula pendula		No action.	

1262	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1263	Acer platanoides		Branch forks over car parking area - remove back to source. Remove deadwood.	6 months
1264	Acer pseudoplatanus	Sparce in appearance.	Remove moderate to major deadwood. Re-inspect in 18 months.	6 months
1265	Sorbus sp.		Remove moderate to major deadwood.	6 months
1266	Acer pseudoplatanus		Prune branch endings from structures by 2 to 3 metres. Remove mod. to maj. deadwood.	6 months
1267	Betula pendula		No action.	
1268	Sorbus sp.		No action.	
1269	Betula pendula		No action.	
1270	Sorbus sp.		No action.	
1271	Betula pendula	Bark necrosis on stems and branches.	Fell to ground level.	6 months
1272	Betula pendula		No action.	
1273	Prunus cerasifera		No action.	
1274	Betula pendula	Poor form, crown die back.	Fell to ground level.	6 months
1275	Betula pendula		No action.	
1276	Sorbus sp.		No action.	
1277	Betula pendula		No action.	
1278	Acer pseudoplatanus		No action.	
1279	Betula pendula		No action.	
1280	Prunus avium		Remove moderate to major deadwood. Reduce lowest limb over road by approx. 1m.	6 months
1281	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1282	Tilia sp.		No action.	
1283	Tilia sp.		No action.	
1284	Betula pendula		No action.	
1285	Chamaecyparis lawsoniana		Fell	
1286	Betula pendula		No action.	
1287	Betula pendula	Evidence of Pseudomonas on stem.	Re-assess tree in 18 months.	18 months

1288	Betula pendula	Evidence of Pseudomonas on stem.	Re-assess tree in 18 months.	18 months
1289	Malus sp.		No action.	
1290	Malus sp.		No action.	
1291	Prunus avium		No action.	
1292	Betula pendula		No action.	
1293	Prunus avium	2x stems, one is decayed.	Crown area coming from decayed stem, reduce branch endings by 2m to 3m.	3 months
1294	Acer pseudoplatanus		No action.	
1295	Betula pendula		No action.	
1296	Prunus cerasifera		No action.	
1297	Malus sp.	Buttress cavity present.	Reduce branch endings by approx 1 to 2 metres. Remove moderate to major deadwood.	6 months
1298	Acer pseudoplatanus		No action.	
1299	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1300	Laburnum sp.		Remove moderate to major deadwood.	6 months
1301	Sorbus sp.		No action.	
1302	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1303	Betula pendula	Suppressed by other trees, poor form.	Fell to ground level.	12 months
1304	Acer pseudoplatanus		No action.	
1305	Acer pseudoplatanus	Suppressed by other trees, poor form.	Fell to ground level.	6 months
1306	Tilia sp.		No action.	
1307	Malus sp.		No action.	
1308	Betula pendula		No action.	
1309	Betula pendula	Significant canker scarring at 1m.	Fell to ground level.	6 months
1310	Betula pendula		No action.	
1311	Prunus cerasifera		No action.	
1312	Chamaecyparis lawsoniana		No action.	

1313	Chamaecyparis lawsoniana		No action.	
1314	Acer pseudoplatanus		Remove moderate to major deadwood. Prune back from lamp column by 1m.	6 months
1315	Sorbus sp.		No action.	
1316	Populus x canadensis	Outgrowing location, suppressing other species.	Fell to ground level.	12 months
1317	Thuja occidentalis		No action.	
1318	Acer pseudoplatanus	Poor form, crown die back.	Fell to ground level.	6 months
1319	Betula pendula		No action.	
1320	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1321	Sorbus sp.		No action.	
1322	Betula pendula	Poor form, crown die back.	Fell to ground level.	6 months
1323	Betula pendula	Poor form, crown die back.	Fell to ground level.	6 months
1324	Betula pendula	Poor form, crown die back.	Fell to ground level.	6 months
1325	Chamaecyparis lawsoniana		No action.	
1326	Acer pseudoplatanus	Unable to comment.	Sever ivy. Re-assess tree in 18 months.	3 months
1327	Acer pseudoplatanus		No action.	
1328	Thuja occidentalis		No action.	
1329	Acer pseudoplatanus		No action.	
1330	Tilia sp.		No action.	
1331	Betula pendula		No action.	
1332	Prunus cerasifera		No action.	
1333	Malus sp.		No action.	
1334	Malus sp.		No action.	
1335	Malus sp.		No action.	
1336	Malus sp.	Poor form, crown die back.	Fell to ground level.	6 months
1337	Malus sp.		No action.	
1338	Malus sp.		Prune branch endings from structure by 2 to 3 metres. Remove mod. to maj. deadwood.	6 months
1339	Sorbus sp.		No action.	

1340	Malus sp.	Major cavity at point of bifurcation and in buttress,	Fell to ground level.	3 months
1341	Sorbus sp.		No action.	
1342	Betula pendula		No action.	
1343	Tilia sp.		No action.	
1344	Acer pseudoplatanus		No action.	
1345	Populus x canadensis	Previously topped/pollarded.	No action.	
1346	Populus x canadensis	Heavily weighted, adjacent tree removed in past.	Fell to ground level.	12 months
1347	Acer pseudoplatanus		No action.	
1348	Betula pendula		No action.	
1349	Tilia sp.		No action.	
1350	Acer pseudoplatanus		No action.	
1351	Acer pseudoplatanus	Significant cavity at base.	Fell to ground level.	3 months
1352	Betula pendula	Poor form, crown die back.	Fell to ground level.	6 months
1353	Thuja occidentalis		No action.	
1354	Acer pseudoplatanus		No action.	
1355	Thuja occidentalis		No action.	
1356	Acer pseudoplatanus		No action.	
1357	Prunus cerasifera		No action.	
1358	Prunus cerasifera		No action.	
1359	Prunus cerasifera	Dead.	Fell to ground level.	3 months
1360	Acer pseudoplatanus		No action.	
1361	Sorbus sp.	Large cavity at approx 2m.	Fell to ground level.	3 months
1362	Sorbus sp.	Significant cavity at base.	Fell to ground level.	3 months
1363	Sorbus sp.	Cavity at point of crown break. Will be significantly exposed due to surrounding trees being removed.	Fell to ground level.	3 months

1364	Sorbus sp.	Cavity at point of crown break. Old unidentifiable fruiting bodies at base.	Fell to ground level.	3 months
1365	Betula pendula		Prune back from metal stanchions by approx 2m. Remove deadwood.	6 months
1366	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1367	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1368	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1369	Betula pendula		No action.	
1370	Sorbus sp.	Poor form, crown die back.	Fell to ground level.	6 months
1371	Carpinus betulus		Remove moderate to major deadwood.	6 months
1372	Tilia sp.		Remove low stubbs back to source.	12 months
1373	Carpinus betulus		Remove moderate to major deadwood. Crown raise to 4m over tarmac.	6 months
1374	Chamaecyparis lawsoniana		No action.	
1375	Chamaecyparis lawsoniana		No action.	
1376	Acer pseudoplatanus		No action.	
1377	Carpinus betulus		Remove moderate to major deadwood.	6 months
1378	Acer pseudoplatanus		Remove moderate to major deadwood. Crown raise to 4m over tarmac.	6 months
1379	Carpinus betulus		No action.	
1380	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1381	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1382	Carpinus betulus	Compression fork at approx 2m.	Re-inspect fork in 18 to 24 months.	18 months
1383	Chamaecyparis lawsoniana		No action.	
1384	Chamaecyparis lawsoniana		No action.	
1385	Tilia sp.		No action.	

1386	Acer platanoides		No action.	
1387	Chamaecyparis lawsoniana	Significant compression fork at mid way on stem.	Fell to ground level.	3 months
1388	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1389	Chamaecyparis lawsoniana		No action.	
1390	Chamaecyparis lawsoniana		No action.	
1391	Sorbus sp.	Poor form, extensive buttress and stem damage.	Fell to ground level.	3 months
1392	Betula pendula		No action.	
1393	Betula pendula		Remove moderate to major deadwood.	6 months
1394	Chamaecyparis lawsoniana		No action.	
1395	Sorbus sp.		Remove moderate to major deadwood.	6 months
1396	Populus x canadensis	Lost major limbs in past, pseudomonas present, cavities present. Reactive growth coming from decayed areas. Future problem tree.	Fell to ground level.	12 months
1397	Populus nigra 'Italica'	Heavily weighted towards airfield side. Will have increased exposure when adjacent tree is felled. Decayed timber scattered on ground.	Fell to ground level.	12 months
1398	Acer pseudoplatanus	Remove to aid removal of 1397.	Fell to ground level.	12 months
1399	Populus x canadensis	Beetle damage to buttress, significant lean, possible root plate heave.	Fell to ground level.	6 months
1400	Tilia sp.		Building side only, prune branch endings from	6 months

			structure by 2 to 3 metres.	
1401	Tilia sp.		Sever ivy. Re-assess tree in 18 months.	3 months
1402	Acer pseudoplatanus		No action.	
1403	Populus x canadensis		No action.	
1404	Chamaecyparis lawsoniana		No action.	
1405	Populus x canadensis		Sever ivy. Re-assess tree in 18 months.	3 Months
1406	Acer pseudoplatanus	Suppressed by other trees, poor form.	Fell to ground level.	6 months
1407	Thuja occidentalis		No action.	
1408	Acer pseudoplatanus		Building side only, prune branch endings from structure by 2 to 3 metres. Crown raise to 4m.	6 months
1409	Sorbus sp.	Suppressed by other trees, poor form.	Fell to ground level.	6 months
1410	Acer pseudoplatanus	Significant cavity on main stem at 2m.	Fell to ground level.	6 months
1411	Carpinus betulus		PPruned back from metal stanctions by approx 2m.	6 months
1412	Tilia sp.		No action.	
1413	Carpinus betulus		No action.	
1414	Tilia sp.		No action.	
1415	Populus x canadensis	Beetle damage to buttress.	Monitor extent of bore holes over next 12 months.	12 months
1416	Acer pseudoplatanus		No action.	
1417	Populus x canadensis	Growing from root of adjacent poplar.	Fell to ground level.	12 months
1418	Populus x canadensis	Growing from root of adjacent poplar.	Fell to ground level.	12 months
1419	Tilia sp.		Raise crown to 4m to give clearance to fence.	12 months
1420	Acer pseudoplatanus		Raise crown to 4m to give clearance to fence.	12 months
1421	Tilia sp.		No action.	

1422	Acer pseudoplatanus		Raise crown to 4m to give clearance to fence.	12 months
1423	Sorbus sp.	Poor specimen but poses no danger.	No action.	
1424	Sorbus sp.		No action.	
1425	Betula pendula		No action.	
1426	Acer pseudoplatanus		No action.	
1427	Acer pseudoplatanus	Fire damage in lower crown.	Leave for 18 months, re-inspect to assess die back of fire damage.	18 months
1428	Carpinus betulus		Crown raise to 4m over tarmac. STOP SPRAYING WEEDKILLER AROUND BUTTRESS.	6 months
1429	Acer pseudoplatanus		No action.	
1430	Acer pseudoplatanus		No action.	
1431	Sorbus sp.		Climb and inspect depth of cavity at approx 2.5m.	3 months
1432	Betula pendula		Remove moderate to major deadwood.	
1433	Sorbus sp.		Limb over road to be removed to source. Climb and inspect depth of cavity.	3 months
1434	Sorbus sp.		Remove moderate to major deadwood.	6 months
1435	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1436	Sorbus sp.	Bark necrosis on stems and branches.	Fell to ground level.	3 months
1437	Acer pseudoplatanus		Crown raise to 4m over tarmac.	
1438	Sorbus sp.	Several cavities at crown break. Heavily weighted one side. Crown die back.	Fell to ground level.	3 months
1439	Sorbus sp.		Remove moderate to major deadwood.	6 months
1440	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1441	Sorbus sp.		Remove moderate to	6 months

			major deadwood.	
1442	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1443	Sorbus sp.		Remove moderate to major deadwood.	6 months
1444	Sorbus sp.		Remove moderate to major deadwood.	6 months
1445	Acer pseudoplatanus		Remove moderate to major deadwood.	6 months
1446	Sorbus sp.		Remove moderate to major deadwood.	6 months
1447	Fagus sylvatica		No action.	
1448	Fagus sylvatica		No action.	
1449	Fagus sylvatica		Cobra brace at 3/4 of the way up main stems. Remove major deadwood.	6 months
1450	Fagus sylvatica		No action.	
1451	Acer pseudoplatanus		No action.	
1452	Acer pseudoplatanus		No action.	
1453	Fagus sylvatica		No action.	
1454	Acer pseudoplatanus		No action.	
1455	Acer pseudoplatanus		No action.	
1456	Acer pseudoplatanus		No action.	
1457	Betula pendula		No action.	
1458	Betula pendula		No action.	
1459	Acer platanoides		No action.	
1460	Acer pseudoplatanus		No action.	
1461	Acer pseudoplatanus	Poor form, crown die back.	Fell to ground level.	6 months
1462	Acer platanoides	2x stems. Poor form, crown die back.	Fell to ground level.	6 months
1463	Acer pseudoplatanus	3x stems. Poor form, crown die back.	Fell to ground level.	6 months
1464	Acer pseudoplatanus	Poor form.	Fell to ground level.	6 months
1465	Acer platanoides		No action.	
1466	Populus x canadensis		Ivy to be removed and re-inspect. Remove dead hanging branch.	6 months

1467	Populus x canadensis		No action.	
1468	Populus x canadensis		No action.	
1469	Populus nigra 'Italica'	Poor specimen.	Fell to ground level.	3 months
1470	Acer platanoides	Included union at 2m.	Re-inspect union in 18 months	18 months
1471	Populus x canadensis	Poor form, crown in decline.	Fell to ground level.	3 months
1472	Carpinus betulus		No action.	
1473	Carpinus betulus		No action.	
1474	Thuja occidentalis		No action.	
1475	Acer pseudoplatanus		No action.	
1476	Tilia sp.		No action.	
1477	Thuja occidentalis		No action.	
1478	Acer pseudoplatanus		No action.	
1479	Acer pseudoplatanus		No action.	
1480	Thuja occidentalis		No action.	
1481	Tilia sp.		No action.	
1482	Acer pseudoplatanus		No action.	
1483	Thuja occidentalis		No action.	
1484	Chamaecyparis lawsoniana		No action.	
1485	Acer platanoides		No action.	
1486	Acer platanoides		No action.	
1487	Chamaecyparis lawsoniana		No action.	
1488	Populus x canadensis		No action.	
1489	Salix caprea		No action.	
1490	Chamaecyparis lawsoniana		No action.	
1491	Tilia sp.		Remove broom in upper crown to reduce sail effect.	18 months
1492	Chamaecyparis lawsoniana		No action.	
1493	Chamaecyparis lawsoniana		No action.	

1494	Acer pseudoplatanus		Remove old rope tied on branch.	6 months
1495	Chamaecyparis lawsoniana		No action.	
1496	Acer pseudoplatanus		No action.	
1497	Populus nigra 'Italica'	Included union with compression from base to 2m. Not immediate concern.	Fell to ground level.	18 months
1498	Acer pseudoplatanus		No action.	
1499	Acer pseudoplatanus		No action.	
1500	Acer pseudoplatanus		No action.	
1501	x Cuprocyparis leylandii		No action.	
1502	x Cuprocyparis leylandii		No action.	
1503	Acer pseudoplatanus		No action.	
1504	Acer pseudoplatanus		No action.	
1505	Acer pseudoplatanus		No action.	
1506	Acer pseudoplatanus		No action.	
1507	Acer platanoides		No action.	
1508	Thuja occidentalis		No action.	
1509	Acer platanoides		Remove 2x lowest limbs over tarmac area. Remove 2x lowest that grow towards storage area with corrugated roof.	6 months
1510	Thuja occidentalis		No action.	
1511	Chamaecyparis lawsoniana		No action.	
1512	Betula pendula		No action.	
1513	Tilia sp.		No action.	
1514	Chamaecyparis lawsoniana		No action.	
1515	Acer pseudoplatanus		No action.	
1516	Tilia sp.		No action.	

1517	Tilia sp.		Remove moderate to major deadwood.	6 months
1518	Thuja occidentalis		No action.	
1519	Populus x canadensis	Possible root plate heave, cracks in soil typical of root plate movement after strong winds.	Fell to ground level.	3 months
1520	Acer sp.	Possible die back or dead. No bud burst as would be expected around present time of inspection.	Re-inspect for signs of life in 3 months.	3 months
1521	Laburnum sp.		No action.	
1522	Sorbus sp.	Significant cavities, crown die back and large deadwood. High target area.	Fell to ground level.	3 months
1523	Sorbus sp.	High target area.	Reduce branch endings by approx 1 to 2 metres. Remove moderate to major deadwood.	3 months
1524	Laburnum sp.		Remove ivy and inspect unions at point of crown break.	6 months
1525	Sorbus sp.		Remove ivy, deadwood and hanging branches. Crown raise to 4m over tarmac area.	3 months
1526	Acer pseudoplatanus	Inappropriate location. Multi stemmed.	Fell to ground level.	6 months
1527	Acer pseudoplatanus	Inappropriate location. Multi stemmed.	Fell to ground level.	
1528	Acer platanoides	Multi stemmed.	Fell to ground level.	
1529	Acer pseudoplatanus		Fell to ground level AND fell adjacent dead elms.	6 months
1530	Chamaecyparis lawsoniana		No action.	
1531	Betula pendula	Significant tree worthy of saving.	Remove ivy and deadwood. Reduce 3 remaining limbs by 2 to 4m where appropriate to re-profile crown. Note	3 months

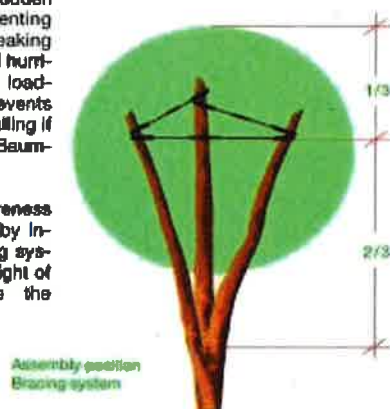
4.11 – Diag.1

cobra Assembly

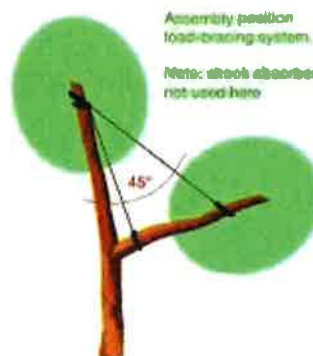
Practical tips on operation and measurements, as well as training schedules.

The dynamic bracing system reduces sudden stress, thus preventing branches from breaking during storms and hurricanes. The static load-bracing system prevents the branch from falling if it breaks (see ZTV Baumpflege).

Optimum effectiveness can be achieved by installing the bracing system 2/3rds the height of the stem above the crotch.

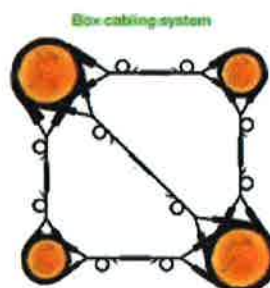
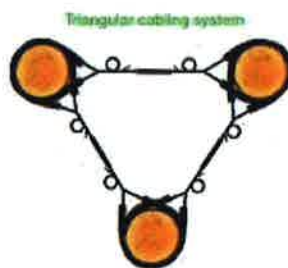


In the case of a load-bracing system, the height is not as important as ensuring that the cables are as vertical as possible.



The ring bracing system is usually sufficient.

A diagonal support need be added only when stems must be further secured (for example, V-forked branches), possibly without a shock absorber.



All work should be carried out to BS3998 and by suitably qualified arborists.

Any questions about this report, do not hesitate to contact me at the number below.

Signed,

Phill Escritt

Mob : 07980 372 252