

Arboricultural Method Statement



Northern Green Infrastructure,
Horton Heath
10th January 2024



**Tyler
Grange**

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Admin QA	Author		
LB	Jamie Pratt, BSc (Hons), MArborA		

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Key Contacts:

Tyler Grange Arboricultural Team:

trees@tylergrange.co.uk

01285 831804



Section 1: Overview

- 1.1. This Arboricultural Method Statement (AMS) has been prepared by Tyler Grange Group Limited (TG) on behalf of Eastleigh Borough Council to accompany planning proposals for the northern Green Infrastructure at One Horton Heath.
- 1.2. The purpose of this AMS is to detail the procedures for tree removal and tree protection during the construction phases of the development in accordance with the planning condition and industry best practice. This report has been guided by the recommendations of the British Standard 5837:2012 'Trees in Relation to Design, Demolition and Construction – Recommendations' (BS5837).
- 1.3. The limitations to the tree survey and this report are set-out at **Appendix 4**.

Condition Compliance

- 1.4. Copies of this report must be available for inspection on site and all personnel must be made aware of the key implications of this AMS during the construction phase(s) of the development. Improper implementation or deviation from working methodology set out within this report could represent a breach of the planning conditions (if applicable) and trigger enforcement action from the Local Planning Authority (LPA).

Tree Survey and Proposal Summary

- 1.5. A pre-development tree survey of the site has been completed in accordance with BS5837. Findings for each of the trees surveyed are detailed in the **Tree Survey Schedule (See Appendix 1)**. The Tree Survey Schedule provides a record of each survey entry, including tree reference numbers, species, tree and root protection area (RPA) dimensions, life stage, physiological and structural condition, and arboricultural value.
- 1.6. The proposed design has been subject to arboricultural input in order that the impact of the proposal on existing trees is minimised where possible.
- 1.7. The proposal largely relates to the construction of new pathway and SuDs. Overall, there are no major impacts to trees anticipated provided that the protection measures as detailed within this report are adhered to.
- 1.8. Proposed footpaths will be located within the veteran tree buffers trees T19 and T24. The routes of the footpath follow an existing Public Right of Way and therefore a degree of compaction / disturbance has occurred in these areas already. The sections of pathways within the RPA will be constructed above the soil as detailed within the Tree Protection Plan. Given the pre-existing use and option for mitigation there are no undue impacts associated within the path towards the rooting environment of the trees.
- 1.9. No trees require removal other than a small section of a low value group G25 which will require modest cutting back at the boundary to facilitate the walking route.

Section 2: Arboricultural Method Statement

- 2.1. The Plans and Appendices contained within must be read in conjunction with this report. These include:
- **Tree Protection Plan (TPP) (See Plan 1)** – details the trees to be retained, removed or pruned.
 - **Arboricultural Work Audit (AWA) (See Appendix 3)** – details a schedule of specific site events requiring input or supervision from a qualified arboricultural consultant.
- 2.2. The **TPP (See Plan 3)** shows the Root Protection Areas (RPAs) and branches spread of retained trees. The RPA signifies the area that must be protected during the construction works to avoid harm to the rooting environments of trees. Where development and site works occur within RPAs or close the tree branches, there are mitigative measures and protocols that must be adhered to as detailed within this document. Unless otherwise stated within this document, within the areas protected by tree protection barriers the following shall apply:
- No excavation
 - No lowering of levels
 - No storage of plant or materials
 - No vehicular access
 - No fire lighting.
 - No parking
 - No welfare facilities
 - No substances harmful to the environment or trees health shall be stored adjacent to or allow to flow into tree protection areas. This includes all fuels, oils, bitumen, cement storage towers and washing arear, building sand, salt or any other chemicals.
 - No fires shall be lit in within 15m of the trees canopy.

Timing of Works

- 2.3. The development must be carried out in the following order unless otherwise agreed in writing with the LPA. Each step must be completed in accordance with this document and before moving onto the next:
- 1) Tree removals and pruning works.
 - 2) Tree protection fencing installed.
 - 3) Site accessible to plant and construction traffic.
 - 4) site clearance and groundworks (cut and fill)
 - 5) Construction
 - 6) Removal of tree protection fence
 - 7) Soft landscape operations

Arboricultural Site Monitoring

- 2.4. Site monitoring by an appropriately qualified Arboriculturist will be undertaken as set-out within the **AWA (See Appendix 3)**. This includes the following key work stages:
- Pre-commencement meeting
 - Installation of tree protection barriers
 - Works within RPAs
- 2.5. It is the responsibility of the Site Manager to request (with sufficient notice) the attendance of an Arboricultural Consultant to oversee the work as detailed above. It is not the responsibility of Tyler Grange to enforce site monitoring works throughout the course of the development. A copy of the Works Audit and supporting photographic evidence will be completed by the appointed Arboricultural Consultant and issued to Site / Project Manager. Reporting to the LPA's Arboricultural Department will be the responsibility of the Site / Project Manager following the completion of each task.

Procedures for Incidents

- 2.6. If any breach of the approved tree protection measures occurs:
- The site manager must be informed immediately;
 - The Local Planning Authority Tree officer (or other Planning Officer) must be informed, as well as the appointed project Arboriculturist at the earliest opportunity;
 - Swift action must be taken to halt the breach and prevent any further breaches; and
 - All preventative action and details of agreed remedial works must be recorded and reported to the LPA.

Appendix 1: Tree Survey Schedule



Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T1	English Oak	14m	1550	9.00	5.00	9.50	10.00	5.00	Veteran	Good	Good	A1.2.3	15.0	707	23.25
T2	English Oak	13m	990	8.25	9.50	8.25	7.50	4.50	Mature	Good	Good	B1.2	11.9	443	n/a
T3	English Oak	11m	880	6.00	7.25	6.25	6.75	4.50	Mature	Good	Good	B1.2	10.6	350	n/a
T4	Common Alder	8m	2x 225	4.00	4.00	4.00	4.00	3.50	Early Mature	Good	Fair	C1.2	3.8	45	n/a
T5	English Oak	13m	800	9.75	9.75	9.75	9.75	4.75	Mature	Fair	Good	B1.2	9.6	289	n/a
T6	English Oak	17m	1200	9.00 into site				6.5 site	Veteran	Good	Good	A1.2.3	14.4	651	18
T7	English Oak	17m	1200	11.00				2.75 site	Veteran	Good	Good	A1.2.3	14.4	651	18
T8	English Oak	18m	2x 850	10.00				4.50	Veteran	Good	Good	A1.2.3	14.4	651	18
T9	Ash	15m	675#	5.50				7.00 site	Mature	Fair	Fair	B2	8.1	206	n/a
T10	English Oak	16m	1250+	9.25	11.75	10.00	8.00	4.75 site	Veteran	Good	Good	A1.2.3	15.0	707	18.75
T11	English Oak	14m	850	6.50	9.25	7.00	8.50	5.00 site	Mature	Good	Fair	B1.2	10.2	327	n/a
T12	Scots Pine	14m	780	5.00	8.75	5.00	4.00	8.00	Mature	Poor	Poor	C1.2	9.4	275	n/a
T13	English Oak	8m	350, 450	4.00	4.00	4.00	4.00	-	Dead	Dead	Dead	U	n/a	n/a	n/a
T14	English Oak	12m	1250+	6.00	16.00	12.00	11.75	5.00	Veteran	Fair	Fair	A1.2.3	15.0	707	18.75
T15	English Oak	13m	800	9.00	7.00	8.00	8.25	5.00	Mature	Fair	Fair	B1.2	9.6	289	n/a
T16	English Oak	14m	990	10.00	10.00	11.00	10.75	5.00	Mature	Good	Good	A1.2	11.9	443	n/a
T17	English Oak	15m	850	8.00	4.50	11.25	9.50	5.00	Mature	Good	Fair	B1.2	10.2	327	n/a
T18	Ash	15m	450, 350, 300, 500	4.00	6.25	8.00	4.50	8.00	Mature	Fair	Poor	B2	9.8	302	n/a
T19	Field Maple	10m	3x 500	8.25	7.40	6.00	4.00	1.50	Veteran	Good	Fair	A1.2.3	10.4	340	13
T20	Now T230														
T21	English Oak	14m	980	10.00	10.00	10.00	10.00	6.00	Mature	Fair	Fair	B1.2	11.8	434	n/a
T22	English Oak	12m	780	8.00	9.50	7.00	3.00	2.75	Mature	Fair	Fair	B1.2	9.4	275	n/a
T23	English Oak	13m	750	7.00	7.00	7.00	7.00	1.50	Mature	Good	Good	B1.2	9.0	254	n/a
T24	English Oak	15m	1250+	9.00	8.50	11.00	13.00	4.50	Veteran	Fair	Fair	A1.2.3	15.0	707	18.75
T25	Hawthorn	5m	6x 180	3.25	3.50	2.75	3.50	1.00	Mature	Fair	Fair	C1.2	5.3	88	n/a
T26	English Oak	17m	900	8.00	8.00	8.00	8.00	5.50 site	Mature	Good	Good	A1.2	10.8	366	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T27	English Oak	13m	1000	10.75	10.75	10.75	10.75	2.50	Mature	Fair	Good	A1.2	12.0	452	n/a
T28	English Oak	11m	800	7.00	7.25	8.00	6.00	4.00	Mature	Fair	Fair	B1.2	9.6	289	n/a
T29	English Oak	14m	1150	9.00	8.50	10.00	8.00	5.00 site (N)	Mature	Fair	Fair	B1.2	13.8	598	n/a
T30	English Oak	7m	300	4.00	4.00	4.00	4.00	4.00	Semi Mature	Good	Fair	C1.2	3.6	41	n/a
T31	Ash	8m	13x 250 ave	8.25	6.00	7.50	5.00	1.50	Mature	Fair	Fair	B2	10.8	366	n/a
T32	Holly	6m	3x 200	2.00	2.00	2.00	2.00	0.00	Mature	Poor	Poor	C1.2	4.2	55	n/a
T33	English Oak	9m	650	6.00	4.75	8.25	8.75	4.00 (S)	Mature	Fair	Fair	B2	7.8	191	n/a
T34	Field Maple	8m	425, 380	8.00	4.75	4.50	3.00	4.00 (S)	Mature	Fair	Fair	B2	6.8	145	n/a
T35	English Oak	8m	500	6.75	7.25	6.50	4.50	4.50 (S)	Mature	Fair	Fair	B2	6.0	113	n/a
T36	English Oak	13m	1250+	6.75	9.25	8.25	8.25	4.00	Veteran	Fair	Good	A1.2.3	15.0	707	18.75
T37	English Oak	11m	1250+	9.50	6.00	6.00	7.00	3.00	Veteran	Fair	Fair	A1.2.3	15.0	707	18.75
T38	Hazel	6m	400	5.00	5.00	5.00	5.00	1.00	Mature	Good	Fair	B2	4.8	72	n/a
T39	Oak	12m	800	6.50	8.00	8.50	5.50	3.00	Mature	Fair	Fair	B1.2	9.6	289	n/a
T40	English Oak	12m	1000	7.50	6.50	6.50	5.50	4.00	Veteran	Fair	Fair	A1.2.3	12.0	452	15
T41	English Oak	9m	575	7.50	7.00	5.00	5.00	4.50	Mature	Fair	Fair	B2	6.9	149	n/a
T42	English Oak	19m	1250+	11.00	11.00	11.00	11.00	4.00	Veteran	Good	Good	A1.2.3	15.0	707	18.75
T43	English Oak	15m	850	8.25	8.25	8.25	8.25	4.00	Mature	Fair	Good	A1.2	10.2	327	n/a
T44	English Oak	15m	1000	7.00	8.75	9.00	8.00	5.00	Veteran	Good	Good	A1.2.3	12.0	452	15
T45	English Oak	14m	980	10.00	8.00	10.00	8.00	5.00	Mature	Fair	Good	A2	11.8	434	n/a
T46	English Oak	15m	1300	7.50	8.25	9.00	8.00	5.00 (N)	Veteran	Good	Good	A1.2.3	15.0	707	19.5
T47	English Oak	11m	800	8.00	7.00	7.00	7.00	4.00	Mature	Fair	Fair	B1.2	9.6	289	n/a
T48	English Oak	15m	1300	9.00	9.50	10.00	10.00	4.50 (N)	Mature	Poor	Poor	B2	15.0	707	n/a
T49	English Oak	15m	860	10.00	12.00	11.00	2.00	5.00 (S)	Mature	Fair	Poor	C1.2	10.3	334	n/a
T50	English Oak	14m	750	8.00	9.00	8.00	9.00	6.00 (S)	Mature	Fair	Fair	B1.2	9.0	254	n/a
T52	Stone Pine	6m	6x 200	4.50	4.50	4.50	4.50	1.50	Mature	Good	Good	B2	5.9	109	n/a
T53	Hawthorn								Removed.						
T54	Ash								Removed / collapsed.						
T55	Ash	8m	350	3.50	3.50	3.50	3.50	3.00 (S)	Mature	Poor	Poor	C1.2	4.2	55	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T56	Common Alder	15m	750, 600	6.00	8.50	8.00	8.50	4.50 (F)	Mature	Fair	Fair	B1.2	11.5	415	n/a
T57	Ash	17m	650	8.00	4.00	3.00	3.00	8.00 (F)	Mature	Poor	Poor	C1.2	7.8	191	n/a
T58	English Oak	18m	1250+	12.00	10.50	11.00	10.00	4m	Veteran	Good	Good	A1.2.3	15.0	707	18.75
T59	English Oak n	10m	500	5.50	5.00	3.00	3.00	4.00	Mature	Fair	Fair	B2	6.0	113	n/a
T60	Hawthorn	5m	250	2.00	2.00	2.00	2.00	2.00	Mature	Fair	Fair	C1.2	3.0	28	n/a
T61	English Oak								Felled.						
T62	Ash	9m	200, 300	6.00	6.00	6.00	6.00	4.00	Mature	Fair	Fair	B2	4.3	58	n/a
T63	English Oak	11m	500	5.00	5.00	5.00	5.00	4.00	Mature	Fair	Fair	B2	6.0	113	n/a
T64	English Oak	12m	680	6.00	8.00	10.00	10.00	5.00	Mature	Good	Fair	B1.2	8.2	209	n/a
T65	English Oak	12m	1150	6.50	7.75	8.50	7.75	5.00 (N)	Mature	Fair	Fair	B2.3	13.8	598	n/a
T66	English Oak	14m	930	7.75	7.00	8.25	6.00	5.00, 5.00	Mature	Good	Fair	B1.2	11.2	391	n/a
T67	English Oak	16m	1200	11.00	10.50	11.00	7.50	2.00 tips	Veteran	Good	Good	A1.2.3	14.4	651	18
T68	English Oak	15m	1200	5.25	12.50	12.00	11.00	8.00 (N)	Veteran	Fair	Poor	A3	14.4	651	18
T69	Ash	14m	650	11.50	2.00	2.00	11.50	4.50 (N)	Mature	Poor	Poor	U	n/a	n/a	n/a
T70	English Oak	13m	750	5.00	2.50	10.00	11.00	4.00 (N)	Mature	Fair	Poor	B2	9.0	254	n/a
T71	Weeping Willow	12m	775	4.75	5.00	8.25	6.50	0.50 tips	Mature	Good	Fair	B1.2	9.3	272	n/a
T72	English Oak	14m	1150	11.00	10.00	10.50	8.75	5.00, 1.50	Veteran	Good	Good	A1.2.3	13.8	598	17.25
T73	Silver Birch	9m	320	4.75	4.75	4.75	4.75	1.25	Mature	Good	Good	B1.2	3.8	46	n/a
T74	Pear	11m	750	7.00	7.00	7.00	6.00	2.75	Mature	Good	Good	B1.2	9.0	254	n/a
T75	English Oak	13m	1100	8.00	10.75	10.75	10.75	3.00	Mature	Good	Good	A1.2	13.2	547	n/a
T76	English Oak	14m	1060	4.00	8.00	10.00	10.50	3.00	Mature	Fair	Fair	B1.2	12.7	508	n/a
T77	English Oak	15m	1040	9.25	10.50	4.00	11.50	3.00	Mature	Poor	Fair	B2	12.5	489	n/a
T78	Sycamore	15m	890	9.00	10.00	9.00	9.50	4.00	Mature	Fair	Good	B1.2	10.7	358	n/a
T79	English Oak	17m	1600	10.00	6.00	8.00	8.00	6.00	Veteran	Fair	Good	A1.2.3	15.0	707	24
T80	English Oak	12m	540	6.00	4.00	3.00	6.00	7.50	Mature	Poor	Fair	C1	6.5	132	n/a
T81	English Oak	16m	900	7.00	8.00	8.00	9.00	4.50	Mature	Fair	Fair	A1.2	10.8	366	n/a
T82	Field Maple	6m	300#	5.00	5.00	5.00	5.00	3.00	Mature	Fair	Fair	B2	3.6	41	n/a
T83	English Oak	12m	350	4.00	3.00	6.00	6.00	4.50	Early Mature	Fair	Fair	B2	4.2	55	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T84	Horse Chestnut	9m	750	7.00	6.00	4.00	6.00	3.00	Mature	Good	Fair	B1.2	9.0	254	n/a
T85	English Oak	12m	650, 500	7.75	7.00#	7.00#	9.00	4.00	Mature	Good	Fair	B1.2	9.8	302	n/a
T86	English Oak	9m	300, 400	7.00	6.00	5.00	5.00	4.50	Early Mature	Good	Good	B2	6.0	113	n/a
T87	Common Alder	12m	420	4.00	4.00	4.00	4.00	3.00	Mature	Dead	Poor	U	5.0	80	n/a
T88	Common Alder	12m	310	3.00	2.00	3.00	2.00	2.00	Mature	poor	Fair	U	3.7	43	n/a
T89	Common Alder	13m	330	3.50	0.00	3.50	3.00	3.00	Mature	Fair	Fair	C2	4.0	49	n/a
T90	Common Alder	15m	280	2.00	2.00	2.00	1.00	7.00	Early Mature	Fair	Poor	C2	3.4	35	n/a
T91	Common Alder	14m	377	5.00	1.50	3.00	4.00	3.00	Mature	Poor	Poor	U	4.5	64	n/a
T92	Common Alder	15m	210	0.00	3.00	5.00	2.00	2.00	Early Mature	Fair	Poor	C2	2.5	20	n/a
T93	Common Alder	15m	440	6.00	4.00	2.00	3.00	4.00	mature	Poor	Fair	U	5.3	88	n/a
T94	Ash	13m	350	4.00	3.00	2.00	3.00	2.00	Mature	Poor	Fair	U	4.2	55	n/a
T95	Common Alder	14m	320	2.00	5.00	4.00	3.00	4.00	Mature	Poor	Poor	U	3.8	46	n/a
T96	Common Alder	14m	412	3.00	4.00	4.00	5.00	4.00	Mature	Poor	Fair	C2	4.9	77	n/a
T97	Ash	12m	335	4.00	3.00	4.00	2.00	3.00	Early Mature	Fair	Fair	C1.2	4.0	51	n/a
T98	Common Alder	15m	734	7.00	6.00	6.00	5.00	3.00	Mature	Fair	Fair	B2	8.8	244	n/a
T99	English Oak	14m	520	7.00	4.00	6.00	6.00	3.00	Mature	Fair	Fair	B2	6.2	122	n/a
T100	English Oak	16m	680	8.00	8.00	6.00	9.00	3.00	Mature	Good	Good	B2	8.2	209	n/a
T101	English Oak	10m	660	5.00	5.00	5.00	5.00	2.00	Dead	Dead	Dead	U	7.9	197	n/a
T102	English Oak	15m	610	6.00	7.00	3.00	6.00	2.00	Mature	Fair	Fair	B2	7.3	168	n/a
T103	English Oak	15m	630	5.00	5.00	6.00	6.00	2.00	Mature	Fair	Good	B2	7.6	179	n/a
T104	English Oak	14m	630	7.00	8.00	8.00	7.00	2.00	Mature	Fair	Fair	B2	7.6	179	n/a
T105	English Oak	13m	590	6.00	7.00	6.00	8.00	3.00	Mature	Fair	Good	B2	7.1	157	n/a
T106	English Oak	12m	360	5.00	6.00	6.00	6.00	3.00	Early Mature	Fair	Fair	B2	4.3	59	n/a
T107	English Oak	13m	620	7.00	4.00	6.00	8.00	3.00	Mature	Fair	Good	B2	7.4	174	n/a
T108	English Oak	13m	510	6.00	7.00	5.00	6.00	2.00	Early Mature	Fair	Fair	B2	6.1	118	n/a
T109	English Oak	17m	600	7.00	7.00	7.00	7.00	4.00	Mature	Good	Fair	B2	7.2	163	n/a
T110	English Oak	16m	460	7.00	6.00	6.00	5.00	2.00	Mature	Good	Fair	B2	5.5	96	n/a
T111	English Oak	17m	770	9.00	7.00	9.00	9.00	3.00	Mature	Good	Fair	A.2	9.2	268	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T112	beech	19m	850	9.00	7.00	8.00	7.00	2.00	Mature	Good	Good	A.2	10.2	327	n/a
T113	English Oak	18m	710	9.00	10.00	8.00	6.00	3.00	Mature	Good	Good	A.2	8.5	228	n/a
T114	goat willow	12m	350	10.00	10.00	10.00	10.00	0.00	Mature	Collapsed	Poor	U	4.2	55	n/a
T115	goat willow	4m	360	6.00	6.00	6.00	6.00	0.00	Mature	Collapsed	Poor	U	4.3	59	n/a
T116	Goat Willow	6m	230	4.00	5.00	3.00	4.00	1.50	Mature	Fair	Poor	C2	2.8	24	n/a
T117	English Oak	8m	310	3.50	3.50	3.50	3.50	3.00	Early Mature	Fair	Fair	C2	3.7	43	n/a
T118	English Oak	9m	260	2.50	2.50	2.50	2.50	3.00	Early Mature	Fair	Good	C2	3.1	31	n/a
T119	English Oak	6m	180	2.00	2.00	2.00	2.00	2.00	Semi Mature	Good	Fair	C2	2.2	15	n/a
T120	Goat Willow	7m	190	4.00	4.00	4.00	4.00	1.00	Mature	Good	Fair	C2	2.3	16	n/a
T121	Goat Willow	7m	170	3.50	3.50	3.50	3.50	2.00	Early Mature	Good	Fair	C2	2.0	13	n/a
T122	Fraxinus excelsior (Ash)	14m	340	6.50	4.00	2.00	5.00	4.00	Mature	Good	Fair	B2	4.1	52	n/a
T123	Fraxinus excelsior (Ash)	13m	440	8.00	2.00	3.00	5.00	3.00	Mature	Fair	Poor	C2	5.3	88	n/a
T124	Fraxinus excelsior (Ash)	14m	380	8.50	4.00	4.00	4.00	3.00	Mature	Good	Fair	C2	4.6	65	n/a
T125	Quercus robur (Common Oak)	15m	360	8.00	5.00	2.00	5.00	4.00	Mature	Fair	Fair	B2	4.3	59	n/a
T126	Quercus robur (Common Oak)	15m	430	8.00	5.00	2.00	5.00	3.00	Mature	Fair	Fair	B2	5.2	84	n/a
T127	Quercus robur (Common Oak)	12m	424	7.00	4.00	3.50	3.00	3.00	Mature	Fair	Fair	C2	5.1	81	n/a
T128	Quercus robur (Common Oak)	13m	230	4.00	3.00	3.00	3.00	3.00	Early Mature	Poor	Fair	U	2.8	24	n/a
T129	Quercus robur (Common Oak)	12m	240	3.50	3.00	3.50	2.00	4.00	Early Mature	Good	Fair	C2	2.9	26	n/a
T130	Quercus robur (Common Oak)	13m	400	8.00	7.00	8.00	6.00	3.00	Mature	Good	Good	A2	4.8	72	n/a
T131	Quercus robur (Common Oak)	5m	650	3.50	3.50	3.50	3.50	2.00	Mature	Fair	Poor	C2	7.8	191	n/a
T132	Quercus robur (Common Oak)	14m	490	8.00	6.00	5.00	3.00	3.00	Mature	Fair	Fair	C2	5.9	109	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T133	Quercus robur (Common Oak)	8m	550	5.00	5.00	5.00	5.00	3.00	Mature	Fair	Fair	C2	6.6	137	n/a
T134	Crataegus monogyna (Hawthorn)	4m	260	3.00	2.00	1.00	2.00	2.00	Mature	Poor	Fair	C2	3.1	31	n/a
T135	Quercus robur (Common Oak)	13m	780	8.00	8.00	8.00	6.50	3.00	Mature	Fair	Good	A2	9.4	275	n/a
T136	Quercus robur (Common Oak)	9m	400	4.00	2.00	4.00	6.00	2.00	Early Mature	Good	Fair	C2	4.8	72	n/a
T137	Quercus robur (Common Oak)	13m	510	7.00	7.00	7.00	5.00	3.00	Mature	Good	Fair	B2	6.1	118	n/a
T138	Quercus robur (Common Oak)	13m	420	5.50	5.50	5.50	5.50	2.00	Early Mature	Fair	Fair	C2	5.0	80	n/a
T139	Quercus robur (Common Oak)	13m	510	5.50	5.50	5.50	6.00	2.00	Early Mature	Fair	Fair	B2	6.1	118	n/a
T140	Fraxinus excelsior (Ash)	12m	453	4.00	3.00	4.50	4.50	3.00	Early Mature	Poor	Poor	C2	5.4	93	n/a
T141	Fraxinus excelsior (Ash)	12m	480	4.00	3.00	4.50	4.50	3.00	Early Mature	Poor	Poor	C2	5.8	104	n/a
T142	Quercus robur (Common Oak)	15m	700	8.00	8.00	8.00	8.00	4.00	Mature	Fair	Fair	B2	8.4	222	n/a
T143	Prunus 'Kanzan' (Pink Cherry)	3m	300	2.00	2.00	2.00	2.00	0.00	Mature	Poor	Poor	U	3.6	41	n/a
T144	Fraxinus excelsior (Ash)	5m	127	2.00	2.00	2.00	3.00	2.00	Semi Mature	Fair	Poor	C2	1.5	7	n/a
T145	Fraxinus excelsior (Ash)	10m	364	3.00	4.00	5.00	4.00	4.00	Mature	Fair	Poor	C2	4.4	60	n/a
T146	Betula pendula Youngii (Silver Birch)	8m	300	3.00	3.00	3.00	3.00	2.00	Mature	Good	Poor	C2	3.6	41	n/a
T147	Quercus robur (Common Oak)	12m	367	4.00	4.00	4.00	4.00	0.00	Mature	Fair	Fair	C2	4.4	61	n/a
T148	Fraxinus excelsior (Ash)	8m	173	3.00	1.00	3.00	3.00	3.00	Early Mature	Poor	Poor	U	2.1	14	n/a
T149	Wild cherry	12	320	2.00	3.75	5.50	4.00	2.00	Early Mature	Good	Good	B2	3.8	46	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T150	Goat Willow	10	250		3.00			3.00	Early Mature	Fair	Fair	C2	3.0	28	n/a
T151	Ash	9	275, 200	6.00	1.00	5.00	2.00	2.50	Early Mature	Poor	Fair	C1.2	4.1	53	n/a
T152	Goat Willow	7	350	1.00	3.00	4.75	2.00	2.50	Early Mature	Good	Fair	C2	4.2	55	n/a
T153	Cherry	8	225	4.00	2.50	1.00	2.00	5.00	Semi mature	Fair	Poor	C1.2	2.7	23	n/a
T154	Goat willow	11	3 x 550	9.00	9.00	7.75	4.50	1.00	Mature	Good	Fair	B2	11.4	408	n/a
T155	Wild cherry	8	225	2.00	4.00	3.25	1.00	3.00	Semi mature	Good	Fair	C2	2.7	23	n/a
T156	Ash	11	430	4.00	6.50	6.75	4.00	4.00	Early Mature	Fair	Fair	B2	5.2	84	n/a
T157	Ash	11	300	2.00	2.00	6.00	5.00	4.00	Early Mature	Fair	Fair	C2	3.6	41	n/a
T158	English oak	8	1100	3.00	4.75	3.50	3.50	3.00	Veteran	Fair	Fair	A3	13.2	547	n/a
T159	Ash	5	5 x 80		3.75			2.50	Semi mature	Fair	Fair	C2	2.1	14	n/a
T160	English oak	18	950	7.50	7.00	7.00	6.00	2.00	Mature	Good	Good	A1.2	11.4	408	n/a
T161	English oak	16	620	3.00	7.00	7.00	4.00	4.00	Mature	Fair	Fair	B2	7.4	174	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T162	English oak	16	1120	10.50	7.75	4.00	8.75	2.00	Mature	Good	Fair	B1.2	13.4	567	n/a
T163	English oak	6	200		2.50			1.00	Young	Good	Good	C2	2.4	18	n/a
T164	English oak	3	80		1.50			0.50	Young	Good	Fair	C2	1.0	3	n/a
T165	Elm	3	80		1.50			0.50	Semi mature	Poor	Poor	C2	1.0	3	n/a
T166	Goat willow	6	6 x 120	3.00	1.00	5.50	4.50	0.50	Early Mature	Good	Fair	C2	3.5	38	n/a
T167	Goat willow	5	220 x 2	4.00	1.50	4.50	4.00	0.50	Early Mature	Good	Fair	C2	3.7	43	n/a
T168	Ash	3	80		1.00			0.50	Young	Poor	Poor	U	1.0	3	n/a
T169	Holly	4	230		1.75			0.50	Early mature	Fair	Fair	C2	2.8	24	n/a
T170	English oak	20	700	10.00	5.00	5.00	3.00	4.50	Mature	Good	Good	B1.2	8.4	222	n/a
T171	English oak	18	500, 480	8.50	6.00	6.00	10.50	5.00	Mature	Good	Fair	B1.2	8.3	216	n/a
T172	English oak	18	400, 300	7.50	4.00	4.00	4.00	4.00	Early mature	Good	Fair	B2	6.0	113	n/a
T173	English oak	18	475	8.75	6.00	3.00	6.00	4.00	Early mature	Good	Fair	B2	5.7	102	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T174	English oak	16	525	9.50	7.00	4.00	4.00	4.50	Mature	Good	Good	B1.2	6.3	125	n/a
T175	English oak	18	650	10.50	5.00	4.00	8.00	5.00	Mature	Good	Good	B1.2	7.8	191	n/a
T176	Ash	15	400	4.75	3.00	6.00	7.00	8.00	Mature	Poor	Poor	U	4.8	72	n/a
T177	English oak	20	850	9.50	8.00	6.00	6.00	7.00	Mature	Good	Good	B1.2	10.2	327	n/a
T178	English oak	16	3 x 280	7.00	4.00	3.00	2.00	5.00	Early mature	Good	Fair	B2	5.8	106	n/a
T179	Ash	18	650	8.75	7.50	7.00	7.00	5.00	Mature	Fair	Fair	B2	7.8	191	n/a
T180	English oak	18	580	10.00	5.00	4.00	6.75	4.50	Mature	Good	Good	B1.2	7.0	152	n/a
T181	Ash	17	520, 480	8.50	8.50	7.00	8.00	5.00	Mature	Fair	Fair	B2	8.5	227	n/a
T182	English oak	17	800	10.00	10.00	7.00	9.75	5.00	Mature	Good	Good	A1.2	9.6	289	n/a
T183	English oak	18	660	10.00	8.00	5.00	10.00	4.50	Mature	Good	Good	B1.2	7.9	197	n/a
T184	English oak	18	500, 600	7.25	10.00	5.00	10.00	5.00	Mature	Good	Fair	B2	9.4	277	n/a
T185	Hazel	4	250	6.50	2.50	3.00	6.50	2.50	Mature	Good	Good	C2	3.0	28	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T186	English oak	12	600	8.25	8.00	6.00	8.50	5.00	Mature	Good	Good	B1.2	7.2	163	n/a
T187	English oak	15	900	7.25	10.00	7.00	8.50	5.00	Mature	Good	Good	A2	10.8	366	n/a
T188	English oak	13	580	3.00	6.75	5.00	7.00	2.00	Mature	Good	Good	B1.2	7.0	152	n/a
T189	English oak	14	580	4.75	6.00	3.75	7.00	2.50	Mature	Good	Good	B1.2	7.0	152	n/a
T190	English oak	12	800	2.00	6.00	6.00	8.00	3.00	Mature	Good	Good	B2	9.6	289	n/a
T191	English oak	13	400 x 2	3.00	3.00	4.00	4.50	6.75	Mature	Poor	Fair	C1	6.8	145	n/a
T192	English oak	12	800	6.00	6.00	4.50	7.50	4.00	Mature	Good	Good	B1.2	9.6	289	n/a
T193	English oak	20	980	4.50	9.00	8.75	8.75	4.00	Mature	Good	Good	A1.2	11.8	434	n/a
T194	English oak	20	680	4.00	7.50	1.00	9.00	5.00	Mature	Good	Fair	B2	8.2	209	n/a
T195	English oak	16	450 x 2	4.00	9.75	4.00	4.00	4.00	Mature	Good	Fair	B2	7.6	181	n/a
T196	Ash	18	300, 400 x 2	3.00	6.00	4.00	5.00	8.00	Mature	Poor	Poor	U	7.7	186	n/a
T197	English oak	18	1100	2.50	8.75	7.00	9.50	4.00	Mature	Good	Good	A1.2	13.2	547	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T198	English oak	20	1200	8.00	10.75	7.00	10.50	4.00	Mature	Good	Good	A1.2	14.4	651	n/a
T199	Ash	17	650	7.00	9.50	6.50	5.00	7.00	Mature	Poor	Fair	C1	7.8	191	n/a
T200	English oak	9	650	8.00	2.50	1.50	7.50	4.00	Mature	Good	Fair	B2	7.8	191	n/a
T201	English oak	9	760	5.80	8.00	2.00	5.50	3.50	Mature	Good	Fair	B2	9.1	261	n/a
T202	English oak	22	1300	7.00	9.00	10.00	10.00	5.00	Mature	Good	Good	A1.2	15.6	764	n/a
T203	Ash	18	640	8.00	8.50	5.00	7.00	5.00	Mature	Fair	Fair	B2	7.7	185	n/a
T204	Ash	18	400, 300	8.00	8.00	3.00	5.00	5.00	Mature	Fair	Poor	C1	6.0	113	n/a
T205	Hawthorn	5	175		2.50			3.00	Mature	Poor	Fair	C1.2	2.1	14	n/a
T206	English oak	18	1100	8.25	8.00	7.00	8.00	5.00	Mature	Good	Good	A1.2	13.2	547	n/a
T207	Ash	14	580	5.00	3.00	6.00	4.00	4.00	Mature	Fair	Good	B2	7.0	152	n/a
T208	English oak	10	870	5.50	4.75	4.00	4.00	3.75	Matue	Good	Fair	B2	10.4	342	n/a
T209	Field maple	7	400		5.00			2.00	Mature	Good	Good	B2	4.8	72	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T210	English oak	11	1000	9.50	6.00	6.00	8.50	2.75	Mature	Good	Good	A1.2	12.0	452	n/a
T211	Ash	13	250, 220	6.50	4.00	4.00	5.00	4.00	Early mature	Fair	Fair	C1	4.0	50	n/a
T212	English oak	14	480	3.00	4.00	6.50	3.00	2.50	Mature	Good	Fair	B2	5.8	104	n/a
T213	Hawthorn	4	120		1.50			1.00	Mature	Fair	Fair	C2	1.4	7	n/a
T214	Ash	15	500	9.75	9.50	2.00	8.00	2.00	Mature	Fair	Fair	B2	6.0	113	n/a
T215	English oak	10	300, 400	7.00	8.00	4.00	1.00	1.50	Mature	Good	Fair	B2	6.0	113	n/a
T216	English oak	17	875	6.50	7.00	8.00	9.00	1.50	Mature	Good	Good	B1.2	10.5	346	n/a
T217	Field maple	5	200 x 4	6.50	4.00	3.00	4.00	2.50	Mature	Fair	Fair	B2	4.8	72	n/a
T218	English oak	9	500	3.00	4.50	6.50	4.50	4.00	Mature	Good	Fair	B2	6.0	113	n/a
T219	Goat willow	6	400	6.00	6.50	4.00	2.00	0.50	Mature	Good	Fair	B2	4.8	72	n/a
T220	Field maple	8	6 x 200	5.00	2.00	4.00	4.50	2.00	Mature	Good	Good	B2	5.9	109	n/a
T221	Field maple	8	5 x 150	5.00	1.50	5.00	1.50	2.50	Mature	Good	Fair	B2	4.0	50	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T222	English oak	16	860	9.00	7.00	8.00	7.00	1.75	Mature	Good	Good	A1.2	10.3	334	n/a
T223	Ash	18	2 x 570	8.25	10.00	8.00	6.00	8.00	Mature	Poor	Fair	U	9.7	295	n/a
T224	English oak	13	800	9.00	6.75	7.00	4.50	4.00	Mature	Good	Good	A2	9.6	289	n/a
T225	English oak	14	500	8.00	3.00	8.00	7.25	1.50	Mature	Good	Good	A2	6.0	113	n/a
T226	English oak	14	650, 300	2.00	5.00	10.00	7.00	5.00	Mature	Good	Fair	A2	8.6	232	n/a
T227	English oak	18	800, 450	11.25	9.00	8.00	7.00	2.50	Mature	Good	Fair	A2	11.0	380	n/a
T228	Field maple	8	350, 200	4.00	3.00	3.00	1.50	1.50	Mature	Good	Fair	B2	4.8	72	n/a
T229	English oak	8	350		4.00			4.00	Early mature	Good	Good	B1.2	4.2	55	n/a
T230	English oak	20	800, 1100	11.00	10.00	11.00	11.50	2.50	Veteran	Good	Good	A1.2	15.0	707	18.75
T231	Ash	14	650	6.50	7.00	8.00	6.50	6.00	Mature	Poor	Poor	U	7.8	191	n/a
T232	English oak	11	450	5.00	6.00	5.00	5.25	4.00	Mature	Good	Good	B2	5.4	92	n/a
T233	Ash	13	400	6.00	2.00	5.00	6.00	3.00	Early mature	Poor	Poor	C1	4.8	72	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T234	English oak	15	600	8.00	7.00	8.00	5.00	3.00	Mature	Good	Good	B1.2	7.2	163	n/a
T235	English oak	15	500	8.00	6.00	4.00	8.00	4.00	Mature	Good	Good	B1.2	6.0	113	n/a
T236	Ash	13	350, 200		5.50			4.00	Early mature	Fair	Fair	C1	4.8	72	n/a
T237	English oak	13	480	6.00	5.00	5.00	8.00	2.75	Early mature	Good	Good	B1.2	5.8	104	n/a
T238	English oak	15	800	9.00	5.00	6.00	8.75	3.00	Mature	Good	Fair	B1.2	9.6	289	n/a
T239	English oak	6	275	5.00	6.00	1.00	2.00	3.00	Early mature	Fair	Fair	C1	3.3	34	n/a
T240	Ash	10	200, 100	4.00	3.00	2.00	3.50	4.00	Early mature	Poor	Poor	U	N/A	N/A	n/a
T241	Crack willow	19	1200	6.00	8.00	12.00	5.00	0.00	Mature	Fair	Poor	U	14.4	651	n/a
T242	English oak	17	880	6.00	8.00	8.00	7.50	6.00	Mature	Good	Good	A2	10.6	350	n/a
T243	English oak	17	450, 500	4.00	7.00	6.00	8.00	4.00	Mature	Fair	Fair	B2	8.1	206	n/a
T244	Ash	15	480	8.00	7.25	6.00	5.00	8.00	Mature	Fair	Fair	C1	5.8	104	n/a
T245	English oak	20	900	8.00	8.25	8.00	9.00	5.00	Mature	Good	Good	A2	10.8	366	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T246	English oak	14	650	4.00	5.75	8.50	9.00	2.00	Mature	Good	Fair	B1.2	7.8	191	n/a
T247	English oak	13	450	2.00	6.00	4.00	8.25	2.00	Mature	Good	Good	B2	5.4	92	n/a
T248	English oak	16	780	3.00	11.00	6.00	11.75	2.00	Mature	Good	Good	A2	9.4	275	n/a
T249	English oak	16	700	4.00	8.00	8.00	8.00	4.00	Mature	Good	Fair	A2	8.4	222	n/a
T250	English oak	10	500	3.00	7.75	7.00	3.00	4.00	Mature	Good	Fair	B2	6.0	113	n/a
T251	English oak	11	320	2.00	6.00	6.00	6.00	4.00	Early mature	Good	Good	B2	3.8	46	n/a
T252	English oak	18	900	10.00	8.00	9.00	8.00	4.00	Mature	Good	Good	A2	10.8	366	n/a
T253	Ash	18	500 x 3, 400	9.25	8.50	6.00	9.00	4.00	Veteran	Fair	Fair	B2	11.4	408	14.3
T254	English oak	20	880	6.00	10.50	2.00	10.00	2.00	Veteran	Good	Good	A2	10.6	350	13.2
T255	English oak	20	1200	5.00	12.50	12.00	11.00	2.50	Veteran	Good	Good	A2	14.4	651	n/a
T256	Field maple	8	500	4.00	5.00	5.00	3.00	3.00	Mature	Good	Good	B2	6.0	113	n/a
T257	English oak	20	1100	11.00	9.50	6.00	9.00	5.00	Veteran	Good	Good	A1.2	13.2	547	16.5

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
T258	English oak	20	1100	4.00	13.50	17.00	12.00	4.00	Veteran	Good	Good	A1.2	13.2	547	16.5
T259	English oak	18	870	9.00	10.00	7.00	9.00	4.00	Mature	Good	Good	A2	10.4	342	n/a
T260	English oak	18	1000	8.00	8.25	7.00	9.00	2.75	Veteran	Good	Good	A1.2	12.0	452	15
T261	Ash	17	580	5.00	6.00	7.00	6.00	6.00	Mature	Poor	Poor	U	n/a	n/a	n/a
T262	Ash	17	490	2.00	3.00	6.00	7.00	4.00	Mature	Poor	Poor	U	n/a	n/a	n/a
T263	English oak	18	880	7.00	9.50	10.50	9.00	3.00	Mature	Good	Good	A1.2	10.6	350	n/a
T264	English oak	9	300	2.00	5.75	5.00	3.00	4.00	Early mature	Good	Fair	B2	3.6	41	n/a
T265	Ash	9	9 x 250	6.50	7.00	6.50	7.00	4.50	Mature	Fair	Fair	B2	9.0	254	n/a
T266	Ash, elm	8	3 x 175		5.00			4.00	Early mature	Fair	Fair	C2	3.6	41	n/a
T267	Field maple	7	10 x 200	5.00	4.00	3.00	5.00	4.00	Mature	Good	Fair	B2	7.6	181	n/a
T268	Field maple	7	2 x 200		3.00			3.00	Early Mature	Fair	Fair	C1	3.4	36	n/a
G1	English Oak x 3	11m	2x 600 max	10.00	7.00	8.00	5.50	5.00	Mature	Fair	Fair	B1.2	10.2	327	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
G2	English Oak, Ash, Hawthorn, Silver Birch, Lawson Cypress	11m max	500 max	6.00 max into site				3.00 site	Early Mature to Mature	Fair	Fair	C1.2/B2	6.0	113	n/a
G3	Common Alder, Ash, Hawthorn, Hazel	13m max	2x 400, 2x 600 max, 350 ave	6.25 ave				6.00	Mature	Poor to Good	Poor to Good	C1.2/B2	n/a	n/a	n/a
G4	English Oak, Common Alder	13m ave	1200 max 450 ave	11.00 max 8.00 ave				4.00 ave	Mature	Good	Fair	B1.2	n/a	n/a	n/a
G5	English Oak, Ash, Scots Pine	13m	900 max	8.00 ave				3.00 ave	Early Mature to Mature	Fair to Good	Fair to Good	B1.2	n/a	n/a	n/a
G6	English Oak x 3	11m max	875 max	9.25 max into site				4.00 site	Mature	Good	Fair to Good	B1.2	n/a	n/a	n/a
G8	English Oak, Field Maple	7m max	250 ave	4.00 ave				4.00	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G9	Leyland Cypress, Cherry	4m max	100 max	2.00 ave				0.00	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G10	Leyland Cypress, Goat Willow, Hawthorn, Cherry, Ornamental shrubs	4m	100	1.00				0.00	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G11	Field Maple x 2	8m	5x200 max	7.50 max				0.50	Mature	Fair	Fair	B2	n/a	n/a	n/a
G12	English Oak, Ash, understorey Hawthorn, Holly, Hazel	10m ave	400 max	3.50 ave				1.00 ave	Mature	Fair to Good	Fair to Good	B2	n/a	n/a	n/a
G13	Elm, Blackthorn, Hawthorn, Hazel	8m ave	200 ave	4.00 ave				1.00 ave	Young to Mature	Poor to Fair	Poor to Fair	C1.2	n/a	n/a	n/a
G14	Updated to individual trees														
G15	Updated to individual trees														
G16	Ash, Hazel, Blackthorn	7m	400 max	4.50				0.50	Mature	Good	Fair	B2	n/a	n/a	n/a
G17	Elm, Hawthorn, Blackthorn	8m ave	275 max	4.50 ave				2.50 ave	Early Mature	Poor to Fair	Poor to Fair	C1.2/B2	n/a	n/a	n/a
G18	Holly, Hawthorn, Hazel, Elm, Field maple	6m	200 ave	3.00 ave				1.00 ave	Mature	Fair to Good	Fair to Good	C1.2	n/a	n/a	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
G19	English Oak, Ash, Hawthorn, Hazel	6m	450 ave		6.00 ave			5.00 ave	Mature	Poor to Fair	Poor to Fair	C1.2/U	n/a	n/a	n/a
G20	Leyland Cypress, Raywood Ash, Yew, English Oak, Hazel, Holly, Hawthorn	8m ave	475 max 250 ave		4.00 ave			2.00 ave	Young to Mature	Fair	Fair	C1.2/B2	n/a	n/a	n/a
G21	Hazel, English Oak, Ash, Cherry	5m ave	475 max 250 ave		3.00 ave			1.00 ave	Early Mature to Mature	Fair	Fair	C1.2/B1.2	n/a	n/a	n/a
G22	English Oak	13m max	600 max		10.00 max			2.00 ave	Mature	Fair to Good	Fair to Good	B1.2	n/a	n/a	n/a
G22a	English Oak	17m	800	4.00	9.00	9.00	9.00	1.00 site	Mature	Good	Poor	B2	n/a	n/a	n/a
G23	English Oak x 3	4m	200 ave		3.00 ave			1.00 ave	Semi Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G24	Understory Blackthorn, Hawthorn	6 max	150 ave		2.00			0.00	Early Mature to Mature	Fair	Fair	C2	n/a	n/a	n/a
G25	Goat Willow, Ash, Hawthorn, Blackthorn, Hazel, Elm	5m	150		3.00 ave			0.00	Young to Mature	Poor to Fair	Poor to Fair	C1.2	n/a	n/a	n/a
G26	Ash, Blackthorn	5m	200 max		2.5 ave			0.00	Mature	Fair	Fair	C2	n/a	n/a	n/a
G27	Blackthorn, Hazel, Elm, Hawthorn, Goat Willow, Holly	4m ave	100 ave		2.00 ave			0.00	Early Mature to Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G28	Elm, Hawthorn, Hazel, Holly	8m ave	200 ave		2.50 ave			4.00 ave	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G29	Goat Willow	9m ave	400 max		5.00 ave			0.00	Mature	Fair	Poor	C1.2	n/a	n/a	n/a
G30	Goat Willow, English Oak, Ash, Hawthorn	12m	400 ave		5.00 ave			3.00 ave	Young to Mature	Poor to Fair	Poor to Fair	B2	n/a	n/a	n/a
G31	Raywood Ash, Silver Birch, English Oak, Ash, Goat Willow, Grey Poplar	14m ave	600 max 500 ave		6.00 ave			3.00 ave	Young to Mature	Poor to Fair	Poor to Fair	B2	n/a	n/a	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
G32	Norway Spruce, Sumac, Holly, Goat Willow, Apple, Laurel, Cherry, Rowan, Elm, Hazel, English Oak	6m ave	250 ave 270, 350 max		4.00 ave			1.00 ave	Young to Mature	Poor to Fair	Poor to Fair	C1.2	n/a	n/a	n/a
G33	English Oak, Ash, Goat Willow, understorey Hazel, Elm, Goat Willow	13m trees ave 8m understorey	see plan		6.00 ave			3.00 ave	Young to Veteran	Fair to Good	Fair to Good	C1.2 B2/B1.2 A1.2/A1.2.3	n/a	n/a	n/a
G34	English Oak, Hawthorn, Goat Willow	13m	475 max		6.50 ave			3.00 ave	Mature	Fair	Fair	B1.2	n/a	n/a	n/a
G35	English Oak, Holly, Hawthorn	3-4m	100-200		3.00 ave			0.00	Semi Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G36	Blackthorn, English Oak, Hawthorn, Hazel	5m ave	75 ave		2.00 ave			0.00	Young to Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G37	English Oak, Ash	14m ave	600 max		72.00 ave into site			3.00 site	Mature	Fair to Good	Fair to Good	B1.2	n/a	n/a	n/a
G38	English Oak, Ash, understorey	16m max	1380 max		11.50 max			4.00 ave	Early Mature to Mature	Poor to Good	Poor to Good	U/C1.2/B2/A2	n/a	n/a	n/a
G39	Alder, Ash, English Oak, Goat Willow	15m ave	850 max (trees) 300 (understorey)		3.00 ave (understorey) 8.00 ave (trees)			0.00 understorey 3.00 trees	Young to Mature	Fair	Fair	B1.2	n/a	n/a	n/a
G40	English Oak, Ash, understorey Hawthorn, Hazel	18m max	750 max		10.00 max (trees)			2.50 ave trees	Mature	Good	Fair	A1.2	n/a	n/a	n/a
G41	Norway Spruce	12m max	275		4.50 max			3.00 ave	Early Mature	Fair	Fair	B2	n/a	n/a	n/a
G42	Hawthorn, Ash, Goat Willow, Dogwood	7m ave	150 ave		3.00 ave			2.50	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G44	Fig, Cherry, various ornamentals	4m ave	150 ave		2.00 ave			2.00 ave	Early Mature	Good	Good	C1.2	n/a	n/a	n/a
G45	Goat Willow, Alder, Ash, English Oak, Hawthorn	11m ave	750 max 475 ave		6.00 ave			2.00 ave	Young to Mature	Poor to Fair	Poor to Fair	B2	n/a	n/a	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
G46	Ash	8m	200 max			3.00		4.00	Semi Mature	Poor	Poor	C1.2	n/a	n/a	n/a
G47	Ash x1, English x 2	16m max	860x2 max			9.00 max		4.00 ave	Mature	Poor to Fair	Fair	B1.2	n/a	n/a	n/a
G48	Hawthorn, Ash, Hazel, Goat Willow	7m ave	200 max			4.00 ave		3.00 ave	Young to Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G49	English Oak x 2	9m	720			5.00 ave (9.00 max to S of the tree to W)		4.00 ave	Mature	Poor to Fair	Poor to Fair	B2	n/a	n/a	n/a
G50	English Oak	15m max	800 max			8.50 max		4.00	Mature	Good	Good	A1.2	n/a	n/a	n/a
G51	Hawthorn, Blackthorn, English Oak	4m	75			2.00 ave		1.00 ave	Young to Mature	Poor to Fair	Poor to Fair	C1.2	n/a	n/a	n/a
G52	Alder	5m	280 max			4.00 ave		2.50 ave	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G53	English Oak x 4, Hawthorn x 1	13m max 7m min	450, 500 max 500 ave 200 min			6.75 ave		4.25 ave	Mature	Good	Fair	B1.2	n/a	n/a	n/a
G54	English Oak x 2, Goat Willow x 1, Hazel, Hawthorn, Blackthorn	3m ave	400 max 200 ave			1.75 ave		0.00	Young to Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G55	Goat Willow, Hawthorn	7m	300			3.00 ave		1.50 ave	Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G56	Bay, Pear, Western Red Cedar, Ash, Lawson Cypress, Laurel	9m max 4m ave	300 max 150 ave			3.00 ave		1.00 ave	Early Mature to Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G57	Ash, Goat Willow, Sycamore, Hazel, Sumac, Magnolia	4m ave 9m max	300 max			3.00 ave		1.50 ave	Young to Mature	Poor to Fair	Poor to Fair	C1.2	n/a	n/a	n/a
G58	English Oak	18m ave	1400 max			12.00 ave		2.00 ave	Mature to Veteran	Fair to Good	Fair to Good	A1.2.3 / B2	n/a	n/a	n/a
G59	English Oak, Lime	18m max	1000 max			6.75 max		6.00 ave	Mature	Good	Good	A1.2	n/a	n/a	n/a
G60	Hybrid Black Poplar	18m max	350 max			5.50 ave		8.00 ave	Early Mature	Fair	Fair	B2	n/a	n/a	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
G61	Ash, English Oak, understory Hawthorn, English Oak, Plum, Hazel, Western Red Cedar	8-12m	500 max 200 ave		3.00 ave			3.00 ave	Young to Mature	Fair	Fair	C1.2/B2	n/a	n/a	n/a
G62	English Oak x 5, Beech x 2, Ash x 2	12m	500 max		5.50 max			3.00 ave	Young to Mature	Fair	Fair	B1.2	n/a	n/a	n/a
G63	English Oak x 3	14m max	1000 max		8.75 max			3.50 ave	Mature	Good	Good	A1.2	n/a	n/a	n/a
G64	Silver Maple, Ash, Sycamore, Leyland Cypress, Alder	10m ave	200 max		3.00 ave			2.00	Early Mature	Fair to Good	Fair to Good	B2	n/a	n/a	n/a
G65	Hawthorn, English Oak, Cherry	6m	250		3.00 ave			1.50	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G66	Sycamore, Elm	10m	300 max		3.50 ave			3.00 ave	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G67	Field Maple, Sycamore	8m	200		3.00 ave			3.50	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G68	Crack Willow, Ash, Alder, English Oak	10m ave	350, 200 max		6.00 ave			2.00 ave	Mature	Poor to Fair	Poor to Fair	C1.2	n/a	n/a	n/a
G69	English Oak, Ash	14m	650 max		6.00 (S)			3.00	Mature	Good	Good	A1.2	n/a	n/a	n/a
G70	Swedish Whitebeam x 5	3-6m	340 max		3.00 ave			1.75	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G71	oak, ash, wild cherry, hazel	14m	280	5.00	5.00	5.00	5.00	1.00	earlier mature	Fair	Fair	C2	3.4	35	n/a
G72	hawthorn, hazel, holly	4m	180	2.00	2.00	2.00	2.00	0.00	Early Mature	Fair	Fair	C2	2.2	15	n/a
G73	Common Alder	15m	400	3.00	3.00	3.00	3.00	4.00	Mature	Dead	Fair	U	4.8	72	n/a
G74	Common Alder	14m	300	3.00	3.00	3.00	3.00	2.00	Mature	Dead	Poor	U	3.6	41	n/a
G75	Common Alder	14m	300	5.00	5.00	5.00	5.00	2.00	Mature	Poor	Poor	U	3.6	41	n/a
G76	Aspen	8m	346	3.50	3.50	3.50	3.50	3.00	Early Mature	Good	Fair	C2	4.2	54	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
G77	oak, ash	15m	400	7.00	7.00	7.00	7.00	4.00	Mature	Fair	Good	A2	4.8	72	n/a
G78	Elm, Holly, Hawthorn	11m	230	2.50	2.50	2.50	2.50	3.00	Early Mature	Fair	Good	C2	2.8	24	n/a
G79	Acer campestre (Field Maple), Crataegus monogyna (Hawthorn), Fraxinus excelsior (Ash), Quercus robur (Common Oak), Ulmus procera (English Elm)	15m	170	4.00	4.00	4.00	4.00	1.00	Early Mature	Good	Fair	B2	2.0	13	n/a
G80	Prunus laurocerasus (Cherry Laurel)	4m	100	As shown on plan				0.00	Early Mature	Good	Fair	C2	1.2	5	n/a
G81	Crataegus monogyna (Hawthorn), Fraxinus excelsior (Ash)	4m	50	As shown on plan	0	0	0	0.00	Early Mature	Fair	Fair	C2	.6	1	n/a
G82	Quercus robur (Common Oak)	15m	500	4.00	8.00	4.00	7.00	4.00	Mature	Good	Fair	A2	6.0	113	n/a
G83	Corylus avellana (Hazel), Crataegus monogyna (Hawthorn)	2m	50	As shown on plan	0	0	0	0.00	Mature	Poor	Poor	C2	.6	1	n/a
G84	Fraxinus excelsior (Ash), Crataegus monogyna (Hawthorn)	4m	75	As shown on plan	0	0	0	0.00	Mature	Fair	Fair	C2	.9	3	n/a
G85	Crataegus monogyna (Hawthorn)	2m	75	1.00	1.00	1.00	1.00	0.00	Mature	Fair	Poor	C2	.9	3	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
G86	Ulmus procera (English Elm), Fraxinus excelsior (Ash), Crataegus monogyna (Hawthorn)	13m	150	3.00	3.00	3.00	3.00	2.00	Mature	Good	Fair	B2	1.8	10	n/a
G87	Quercus robur (Common Oak), Crataegus monogyna (Hawthorn), Fraxinus excelsior (Ash)	13m	346	4.00	4.00	4.00	4.00	3.00	Mature	Fair	Fair	B2	4.2	54	n/a
G89	Acer campestre (Field Maple), Crataegus monogyna (Hawthorn), Fraxinus excelsior (Ash), Quercus robur (Common Oak), Ulmus procera (English Elm), Salix sp. (Willow), Betula pendula (Silver Birch)	15m	170	4.00	4.00	4.00	4.00	1.00	Early Mature	Good	Fair	B2	2.0	13	n/a
G90	Goat willow	4	100		2.00			1.00	Young	Good	Fair	C2	1.2	5	n/a
G91	Goat willow	5	200		2.50			0.50	Semi mature	Good	Good	C2	2.4	18	n/a
G92	Crack willow, goat willow	5	350		3.00			0.50	Mature	Good	Fair	C2	4.2	55	n/a
G93	English oak, ash	20	550		9.00			5.00	Mature	Fair to Good	Fair to Good	B2	6.6	137	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
G94	Elm	11	300			3.50		5.00	Early mature	Dead	Dead	U	3.6	41	n/a
G95	Ash, elm	6	150			2.00		1.00	Young	Poor	Poor	U	1.8	10	n/a
G96	Field maple	6	300			3.00		2.00	Mature	Good	Good	B2	3.6	41	n/a
G97	Ash, elm, field maple	8	200			3.00		2.00	Early mature	Poor	Poor	C1	2.4	18	n/a
G98	Ash	12	300			6.50		5.00	Early mature	Poor	Poor	U	3.6	41	n/a
G99	English oak	17	500			7.50		4.00	Mature	Good	Good	B2	6.0	113	n/a
G100	Elm	7	150			3.00		3.00	Semi mature	Dead	Dead	U	1.8	10	n/a
H1	Hawthorn, Ash, Elm, Field Maple, Dogwood	2-6m 2m ave	100 max			0.50		0.00	Early Mature to Mature	Fair	Fair	C1.2	1.2	5	n/a
H2	Hawthorn, Elm	2m	75			0.25		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H3	Blackthorn, Hawthorn, Goat Willow, Field Maple	1-4m	75			0.50		4.00, 2.00 ave	Mature	Fair	Fair	C1.2	.9	3	n/a
H4	Blackthorn, Hawthorn, Goat Willow, Field Maple	1-2m	75			0.50		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H5	Field Maple, Hawthorn, Blackthorn	2m	75			0.50		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H6	Ash, Leyland Cypress, Hazel	2-6m	200			3.00 ave		2.00 ave	Early Mature	Fair	Fair	C1.2	2.4	18	n/a
H7	Goat Willow	2m	75			0.50		0.00	Early Mature	Fair	Fair	C1.2	.9	3	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
H8	Hawthorn, Blackthorn	3m	75			0.50		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H9	Elm, Ash, Hawthorn	2m	100			1.00		0.00	Mature	Fair	Fair	C1.2	1.2	5	n/a
H10	Hazel, Elm, Goat Willow	2m	100 ave			0.25		0.00	Mature	Fair	Fair	C1.2	1.2	5	n/a
H11	Elm, Blackthorn, Plum	4m ave	100 ave			1.00		0.00	Early Mature to Mature	Poor to Fair	Poor to Fair	C1.2	1.2	5	n/a
H12	Elm, Hawthorn, Goat Willow, Hazel, Ash, Holly	3m ave	75 ave 250 max			0.50 ave 3.00 max		0.00	Young to Mature	Fair	Fair	C1.2	3.0	28	n/a
H13	Hazel, Blackthorn, Hawthorn	3m	100			2.00 ave		0.00	Mature	Fair	Fair	C1.2	1.2	5	n/a
H13	Hazel, Elm, Hawthorn	3m ave	100 ave			2.50 ave		0.00	Mature	Fair	Fair	C1.2	1.2	5	n/a
H15	Hazel, Elm, Blackthorn	3m ave	75			1.50 ave		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H16	Ash, Elm, Hawthorn, Field Maple	3m ave	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H17	Field Maple, Elm, Hawthorn	2-4m	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H18	Hawthorn	3m	75			1.50		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H19	Hawthorn, Field Maple, Elm, Blackthorn	2-3m	75			1.00		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H20	Lawson Cypress, Western Red Cedar	1m	75			1.00		0.00	Early Mature	Good	Good	C1.2	.9	3	n/a
H21	Hawthorn, Blackthorn, Hazel, Field Maple, Ash	1-2m	75			1.00		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H22	Hawthorn, Blackthorn, Hazel, Field Maple, Ash	1-2m	75			1.00		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H23	Blackthorn, Ash, Hawthorn, Field Maple, Elder								Removed.						
H24	Blackthorn, Ash, Hawthorn, Field Maple, Elder, Hazel	2m	75			1.50		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H25	Blackthorn	1m	75			0.50		0.00	Young	Fair	Fair	C1.2	.9	3	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
H26	Blackthorn, Ash, Hawthorn, Field Maple, Elder, English Oak	2m	75			1.50		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H27	Hazel, Hawthorn, Blackthorn, Holly	2m	75			1.00		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H28	Blackthorn, Ash, Hawthorn, Field Maple, Elder, English Oak, European Cranberry, Goat Willow, Hazel	2m	75			1.50		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H29	Blackthorn, Ash, Hawthorn, Field Maple, Elder, English Oak, Goat Willow, Hazel	2m	75			1.50		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H30	Blackthorn, Hazel, Alder, Field Maple	9m max	200 max			4.00 ave		1.00	Young to Mature	Good	Good	B2	2.4	18	n/a
H31	Blackthorn, Field Maple, Hawthorn	2m	75			1.50		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H32	Hawthorn, Blackthorn, Field Maple, Dogwood, Crab Apple	3m	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H33	Goat Willow, Hawthorn, English Oak, Blackthorn	4m	100			3.00		0.00	Young to Mature	Fair	Fair	C1.2	1.2	5	n/a
H34	Blackthorn, Hawthorn, Field Maple, English Oak, Hazel, Ash, Goat Willow	13m ave	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H35	Blackthorn, Hawthorn, Field Maple, English Oak, Hazel, Ash, Goat Willow	13m ave	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H36	Goat Willow, Hawthorn	2m	75			1.50		0.00	Early Mature	Fair	Fair	C1.2	.9	3	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
H37	Blackthorn, Hawthorn, Field Maple, English Oak, Hazel, Ash, Goat Willow	13m ave	75		1.00			0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H38	Blackthorn, Hawthorn, Field Maple, English Oak, Hazel, Ash, Goat Willow	13m ave	75		1.00			0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H39	Blackthorn, Hawthorn, Field Maple, English Oak, Hazel, Ash, Goat Willow, Holly	13m ave	75		1.00			0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H40	Hawthorn, Blackthorn, Hazel, Goat Willow	2m	75		1.00			0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H41	Hawthorn, Blackthorn, Hazel	2m	75		1.00			0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H42	Hawthorn, Blackthorn, Hazel	2m	75		1.00			0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H43	Hawthorn, Blackthorn	2m	75		1.00			0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H44	Hawthorn, Blackthorn, Hazel	2m	75		0.75			0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H45	Hawthorn	4m	100		2.00 ave			2.00	Mature	Fair	Fair	C1.2	1.2	5	n/a
H46	Hawthorn, Hazel, Sycamore, Dogwood	2m	75		0.50			0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H47	Hazel, Sycamore, Blackthorn, English Oak	3m	100		1.50			0.00	Young to Mature	Fair	Fair	C1.2	1.2	5	n/a
H48	Field Maple, Hawthorn, Crack Willow, Ash, Elder, Blackthorn, Goat Willow	4m ave	100 ave		2.00 ave			0.00	Young to Mature	Fair	Fair	C1.2	1.2	5	n/a
H49	Hawthorn, Hazel	3m	100		2.00			0.00	Young to Mature	Fair	Fair	C1.2	1.2	5	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
H50	Hazel, Hawthorn, Goat Willow, Beech, Blackthorn, English Oak, Field Maple, Elm	4m	100		1.00			0.00	Mature	Fair	Fair	C1.2	1.2	5	n/a
H51	Blackthorn, Hazel, Hawthorn	2m	75		0.50			0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H52	Hawthorn	3m	75		0.50			0.00	Mature	Good	Fair	c2	.9	3	n/a
H53	Hawthorn, Blackthorn	2m	75	As Shown on plan				0.00	Early Matrue	Good	Fair	C2	.9	3	n/a
H54	Hawthorn	3m	75	As Shown on plan				0.00	Early Matrue	Good	Fair	C2	.9	3	n/a
H55	Prunus laurocerasus (Cherry Laurel)	2m	75	As Shown on plan				0.00	Mature	Good	Fair	C2	.9	3	n/a
H56	Crataegus monogyna (Hawthorn)	2m	51	As Shown on plan				0.00	Mature	Good	Fair	C2	.6	1	n/a
H57	Crataegus monogyna (Hawthorn)	2m	50	As Shown on plan				0.00	Early Mature	Poor	Fair	C2	.6	1	n/a
H58	Crataegus monogyna (Hawthorn)	2m	50	As Shown on plan				0.00	Mature	Good	Fair	C2	.6	1	n/a
H59	Crataegus monogyna (Hawthorn), Carpinus betulus (Hornbeam), Ilex aquifolium (Holly)	2m	50	As Shown on plan				0.00	Mature	Good	Fair	C2	.6	1	n/a
W1	Ash, Field Maple, English Oak, understorey Hazel, Hawthorn	16m ave	1200 max	8.00 ave				3.00 ave	Young to Mature	Fair to Good	Fair to Good	A1.2.3	n/a	n/a	n/a
W2	English Oak, Field Maple, Ash, Blackthorn, Sycamore	8-17m max	1200 max 300 ave	2.75 ave				4.00 ave	Young to Mature	Fair to Good	Fair to Good	A/B/C1.2.3 U	n/a	n/a	n/a
W3	English Oak, Ash, Goat Willow, Beech, understorey Hazel, Hawthorn, Holly, Field Maple	16m ave	75-700 max	8.00 max (trees) 4.00 (understorey)				2.00 ave 0.00 understorey	Young to Mature	Good	Good	A1.2.3	n/a	n/a	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Offset (m)
				N	E	S	W								
W4	English Oak, Alder, Ash, Norway Spruce, Field Maple, Holly, Hazel, Hawthorn, Blackthorn	16m	700 (trees) 200 ave (understorey)		10.00 max 8.00 ave			0.00 understorey 3.00 trees	Young to Mature	Good	Good	A1.2.3	n/a	n/a	n/a
W5	Alder, English Oak, Ash, understorey Hawthorn, Hazel, Blackthorn	16m	850 max		7.00 ave			4.75 (E)	Young to Mature	Good	Good	A1.2.3	n/a	n/a	n/a
W6	Ash, English Oak, Alder, understorey Goat Willow, Hazel, Hawthorn, Blackthorn, Holly	16m ave	750 max 500 ave		7.00 ave			4.50 ave	Young to Mature	Good	Good	A1.2.3	n/a	n/a	n/a
W7	English Oak, Ash, Alder, understorey Hawthorn, Hazel, Blackthorn	15m ave	750 max 500 ave		8.00 ave into site			2.50 ave	Young to Mature	Good	Good	A1.2.3	n/a	n/a	n/a
W8	English Oak, Beech, understorey Hazel, Silver Birch	15m ave	750 max		8.00 ave			1.75	Mature	Good	Good	A1.2.3	n/a	n/a	n/a

Appendix 2: Signage Example



Note: Digital A4 copies can be obtained via contacting Tyler Grange.



Appendix 3: Arboricultural Works Audit

Works Requiring Supervision	Tree or Group No.	Date Completed and Report to LPA
Pre-commencement onsite meeting with project Arboriculturist and Site Manager to discuss tree protection measures throughout construction phases.	N/A	
Spray marking of or inspection barrier position as identified on the Tree Protection Plan and detailed within the Tree Protection Plan prior to occupation of site for construction purposes.	As shown on TPP	
Supervision of manual excavation works within RPAs as identified on the Tree Protection Plan (11705_P33a) and detailed within the Arboricultural Method Statement.	T245 and W1	
Supervision during construction of above soil surfacing within RPAs as identified on the Tree Protection Plan (11705_P33a) and detailed within the Arboricultural Method Statement.	T17, T18, T19, T24, T100, T252, G13 and W1	
General site inspection (monthly basis recommended unless otherwise agreed with LPA) as detailed within the Arboricultural Method Statement.	All retained trees	



Appendix 4: Report Limitations and Tree Legislation

Limitations of Survey

- A4.1 The comments made are based on observable factors present at the time of inspection. Although the health and stability of trees in their current context is an integral part of their suitability for retention, it must be understood that this report is not a tree risk assessment and should not be construed as such. While every attempt has been made to provide a realistic and accurate assessment of the trees' condition at the time of inspection, it may have not been appropriate, or possible, to view all parts or all sides of every tree to fulfil the assessment criteria of a risk assessment.
- A4.2 No tree can be considered entirely safe, given the possibility that exceptionally strong winds could damage or uproot even a mechanically 'perfect' specimen. It is therefore usually accepted that hazards are only recognisable from distinct defects or from other failure-prone characteristics of the tree or the site. An assessment of the potential influence of trees upon existing buildings or other structures resulting from the effects of trees upon shrinkable load-bearing soils or the effects of incremental root or branch growth, are specifically excluded from this report.

Un-assessable Risks

- A4.3 Any alteration to the application site or development proposals could change the current circumstances and may invalidate this report and any recommendations made. Detail of the site's logistical issues (e.g. site storage and the construction programme) may not be finalised until after consented development. As this report has been prepared in advance of consent, some of its contents may need to be updated as more specific information becomes available once the post-consent project management commences. Although this document will remain the primary legal reference in the event of any disputes, some of its content may be superseded by authorised post-consent amendments.
- A4.4 The Wildlife and Countryside Act (WCA) 1981 (as amended) makes it an offence to disturb nesting birds or recklessly endanger a bat or its roost. Bats are also a European protected species and are additionally protected under the Conservation (Habitats & c) Regulations 1994 and 2010 (as amended). The survey findings, constraints, opportunities and design or mitigation recommendations included within that report must be read alongside this document.
- A4.5 A lack of recommended work does not imply that a tree does not pose an unacceptable level of risk and likewise, it should not be implied that a tree will present an acceptable level of risk following the completion of any recommended work.



Plan:

Plan 1: Tree Protection Plan (TPP), (11705/P33a)



ARBORICULTURAL METHOD STATEMENT

This Arboricultural Method Statement (AMS) has been prepared to detail tree protection measures during the construction phase of development at the Northern Green Infrastructure, Horton Heath.

Copies of this AMS must be available for inspection on site and all personnel must be made aware of the key implications of this AMS during the construction phase(s) of the development. The site manager and all other personnel must be provided with this document to ensure that:

- All requirements of this Tree Protection Scheme are adhered to
- The site manager and site personnel are updated of any approved changes or variations to this document (approval for alterations must be obtained in writing from the LPA);
- Site personnel must work in accordance with this document at all times, or in accordance with any approved variation; and
- The tree protection measures are left in place until the construction phase of development is completed, except with the written consent of the LPA.

1. SITE MONITORING:

Site monitoring by an appropriately qualified Arboriculturist will be undertaken pre-commencement and during the construction stage. This includes the following key matters for site preparation and implementation:

- Pre-commencement meeting with appointed site contractor
- Tree removals and pruning works
- Installation of tree protection barriers
- Works within RPA.

It is the responsibility of the Site Manager to request (with sufficient notice) the attendance of an Arboricultural Consultant to oversee the work as detailed above. It is not the responsibility of Tyler Grange to enforce site monitoring works throughout the course of the development.

2. TREE REMOVAL AND PRUNING WORKS:

Section removal of G25 necessary to implement the proposed footpath are denoted by a red hatched and dashed tree canopy outline and a red tree identification number. Trees to be removed should be clearly identified on-site (via spray marking / tapping / tagging as required) by an appointed project Arboriculturist to avoid erroneous tree felling. Remaining stumps from felled trees must be carefully ground out as opposed to pulled out with a machine. This is required to avoid up-rooting and disturbance within the rooting environment of retained trees.

The canopy of group W1 encroaches slightly over the proposed footpath, pruning in the form of crown lifting to provide 2.4m clearance over the path required. Minor pruning back of G13 will also be required over the proposed footpath.

Tree removal and pruning works should be carried out prior to the installation of tree protection barriers. Tree works must be undertaken in accordance with BS3998:2010 by a competent tree contractor and should avoid the main nesting season for birds between 1st March and 31st August each year. If such timescales are unachievable, the advice of an ecologist will need to be sought to determine any further necessary protective and precautionary working measures to avoid disturbance to nesting birds and other wildlife.

3. TREE PROTECTION BARRIERS:

In order to protect the above and below ground features and characteristics of retained trees from damage during construction, tree protection fencing will be installed as illustrated by a solid purple fenceline and orange fenceline. The locations of tree protection barriers have been informed by the Root Protection Areas and canopies of retained trees and groups of trees. Tree protection barriers will be fully installed before the arrival of any plant or construction activity on-site. The barriers will serve to prohibit any access into the RPAs, and unless otherwise stated in this AMS, tree protection barriers will remain in place for the duration of construction work until it is deemed completed.

Tree protection fencing (solid purple fenceline) will consist of the default specification recommended within BS5837:2012, comprising a scaffold framework, well braced to resist impacts, with vertical tubes spaced at a maximum of 3m to add further stability. Onto this, weldmesh panels will be securely fixed with wire or scaffold clamps (see extract of BS 5837 - Figure A). Special attention is essential in maintaining the protective barriers during the construction, ensuring that it remains rigid and complete as well as fit for the purpose intended. To avoid disturbances to the protective barriers once installed, they will be inspected frequently, including during site visits by the project Arboriculturist. Repairs shall be made immediately where required.

The orange fenceline will consist of an alternative reduced specification, comprising heras panels braces by a stabiliser strut and secured to ground with pins (See Figure B).

All-weather notices will be attached to the barriers with words such as 'Construction Exclusion Zone - No Access' (See signage example at Appendix 2).

4. TEMPORARY GROUND PROTECTION:

Ground protection will be used where barriers require relocating (exposing RPA) and where barriers are impractical to install such as prohibiting sufficient and safe working room to facilitate construction works. It must be laid prior to arrival of plant / machinery into the site (See Figure C).

Ground protection will comprise of ground mats or inter-linked scaffold boards, placed on top of a compression-resistant layer consisting of 150 mm depth of woodchip laid onto a geotextile membrane. Implementation of load bearing trakmats can provide a gripped and lightweight ground protection solution to safeguard the rooting environment of trees.

In all cases, the objective should be to avoid compaction of the soil in this area (which can arise from pedestrians and passage of a plant / machinery) so that tree root functions remain unimpaired.

5. WORKS WITHIN RPAs:

New footpath will be required within the RPAs of T17, T18, T19, T24, T100, T252, G13 and W1, this will be carried out in accordance with the following protective measures in accordance with BS5837:2012:

- Position of tree protection barriers and placement of ground protection should machinery be used within RPA;
- The new surface will utilise a no-dig technique as detailed below. The surface will be created using a porous material and granular wearing course/sub-base system, retained by non-invasive timber edging;
- A no-dig solution using a 75mm Cellweb Tree Root Protection system will require that only turf layers and other vegetation need to be removed from the surface as the Cellweb system does not require excavation into the soil, therefore avoiding damage to tree roots. Construction will need to be undertaken by hand and with care not to disrupt the ground condition within the RPA; and
- A separation fabric, using the Treetex T-300 Geotextile (Geosynthetics Ltd), will be laid directly onto the ground as a separation and filtration layer. Treetex T-300 also acts as a pollution control layer to protect the soils beneath. Angular 40/20mm stone will then be laid as a sub-base to allow for variable levels and soil conditions within the site. The [75mm] Cellweb Tree Root Protection system will then be laid, (strictly as per the manufacturer's specification) and filled with the same stone as infill to provide a load-bearing and permeable structure suitable for pedestrian movements.

Proposed SUDS within the RPAs of tree T245 and woodland W1. The following protective measures will be adopted:

- All works must be carried out under direct supervision of an appropriately qualified Arboriculturist;
- Excavation within the RPAs will be carried out using hand-held tools or by compressed air displacement / vacuung;
- A light weight machine will only be used where practical and at the discretion of the supervising Arboriculturist (typically for the displacement hard surfacing and imbedded rocks/rumble);
- Single roots smaller than 25mm will be cleanly pruned back using a suitable sharp hand tool;
- Roots found over 25mm and where occurring as clumps will be not be immediately pruned back, the appointed supervising Arboriculturist will record the size and nature of the root, determine its significance to tree health, and specify proceedings accordingly;
- Exposed roots will be covered with top soil or a hessian sack to avoid root desiccation;
- Exposed roots to be retained as part of the construction will be supported by sharp sand; and
- Due to the highly alkaline leachate produced during the curing of wet concrete, concrete should not be poured within the RPA unless an impermeable liner has been installed. Holes must therefore be sheathed to reduce the risk of contamination where concrete is to be implemented.

Planting

Should the existing soil be compacted or have a poor structure which may hinder the development of any new planting, soil decompaction techniques may be used upon consultation with the project arboriculturist.

Planting operations within the RPAs of trees will adopt the following tree protection measures / stages:

- Remove Tree Protection fence to allow access to area;
- Remove existing vegetation by hand;
- Do not reduce any high spots or excavate in any way;
- With the use of a wheelbarrow Import good quality topsoil into the area, level to a depth no more than 100mm with hand tools;
- Dig individual planting pits for each plant by hand (including hedging which must not be trench planted); and
- Any mulch should also be imported and spread by hand.

6. GENERAL SITE PRECAUTIONS:

The following points must be observed during both advanced works and the construction process:

- No fires will be lit on-site;
- Cutting down, uprooting, damaging or otherwise destroying any retained tree is prohibited;
- No access will be permitted inside RPAs (unless authorisation is obtained in writing from the LPA);
- No materials, equipment or debris will be stored within the RPA at any time;
- If during demolition or construction, there are any excessive levels of dust build-up on retained trees then trees must be hosed down immediately with a clean water supply;
- Notice boards, telephone wires or other services must not be attached to any part of retained trees; and;
- Materials which will contaminate the soil (e.g. concrete, cement, chemical toilets, diesel oil, vehicle washings etc.) must not be permitted within, or close to RPAs of retained trees. Consideration must be given to any sloping ground on-site to ensure that contamination of soil in the RPA would not occur if there were spillage, seepage or displacement elsewhere on-site. To avoid any associated damage or injury occurring to the trees as a direct result of contact with contaminants, works including cement mixing, re-fuelling and tool or machine washing will not be permitted within 20m uphill of any retained tree.

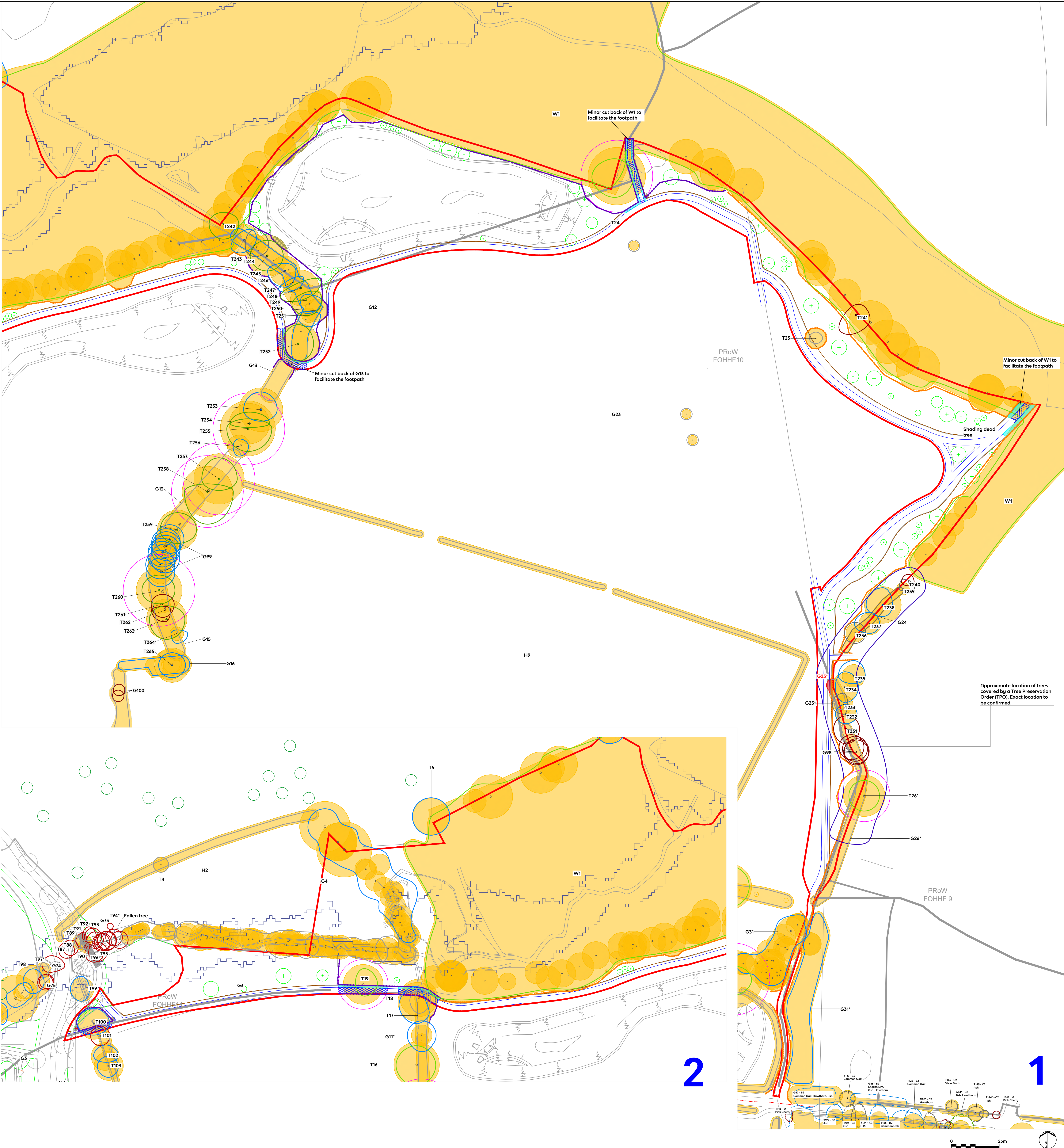
7. PROCEDURES FOR INCIDENTS:

If any breach of the approved tree protection measures occurs:

- The site manager must be informed immediately;
- The Local Planning Authority Tree officer (or other Planning Officer) must be informed, as well as the appointed project Arboriculturist at the earliest opportunity;
- Swift action must be taken to halt the breach and prevent any further breaches; and
- All preventative action and details of agreed remedial works must be recorded and reported to the LPA.

This document should not be relied on or used in circumstances other than those for which it was prepared and for which Tyler Grange was appointed.

Tyler Grange accepts no responsibility for this document to any other party other than the person by whom it was appointed.



- Redline Boundary
- Category A - Trees of High Quality and Value
- Category B - Trees of Moderate Quality and Value
- Category C - Trees of Low Quality and Value
- Category U - Trees Recommended for Removal
- Root Protection Areas
- Veteran Tree and Ancient Woodland Buffer Zones
- Proposed Tree Removals
- Tree Protection Barrier Locations
- Reduced Protective Barrier Locations
- Temporary Ground Protection
- Manual Excavation within RPAs
- Above-soil surfacing within RPAs

*Denotes trees and groups not identified on topographical survey. Locations approximated using measurements taken on site.

Figure A: Specification for Full Tree Protection Fencing

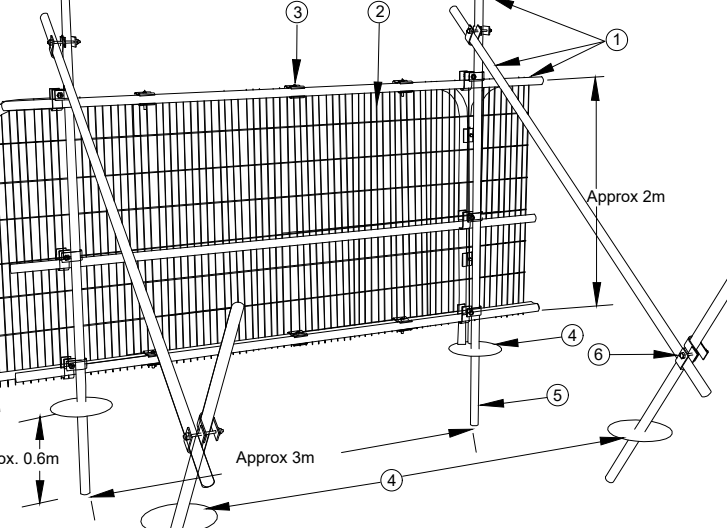


Figure B: Reduced Protective Barrier Specification

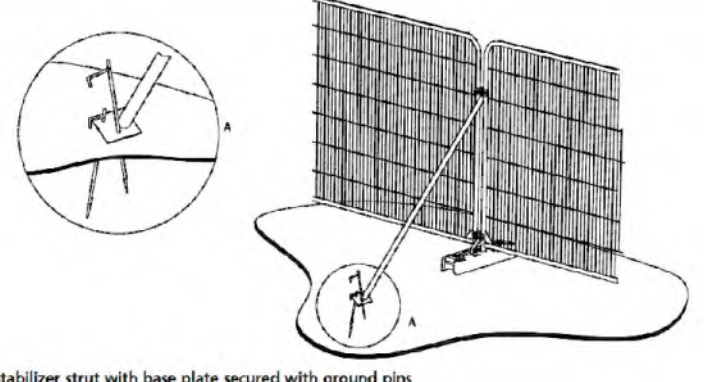
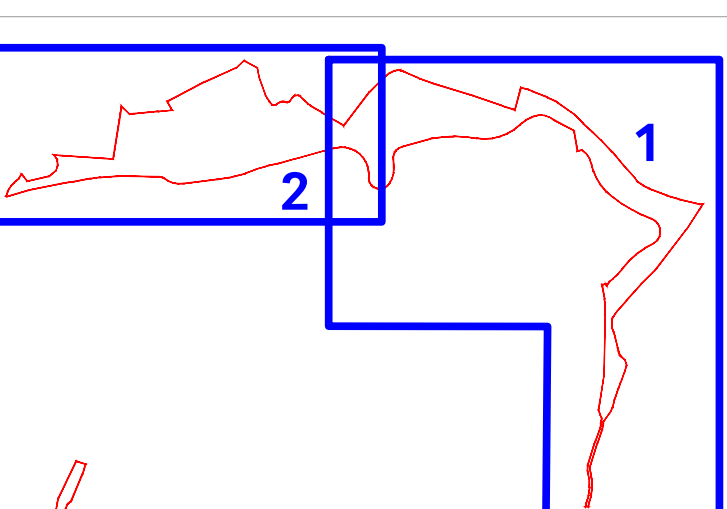
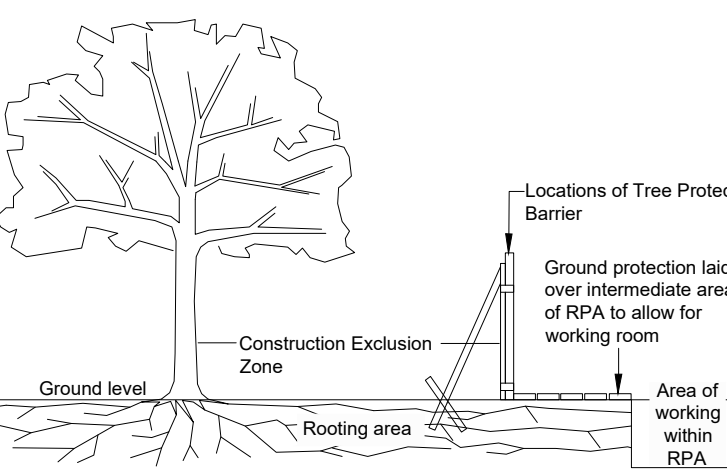


Figure C: Method for barrier relocation, installation of ground protection for working within the RPA (For illustration only)



R	Minor updates to tree barriers	10/01/2024
Rev	Description	Date

Tyler Grange
Head Office: Marsden Estate, Rendcomb,
Cirencester, Gloucestershire GL7 7EX
E:info@tylergrange.co.uk
W: www.tylergrange.co.uk

Project title
Northern Green Infrastructure, Horton Heath

Drawing title
Tree Protection Plan

Scale
Date
1:750 @ A0
10.01.2024

Drawn
Checked
LB
JP

Drawing number
11705_P33

Revision
A



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