



# Marcus Foster

## Arboricultural Design & Consultancy

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### **TREE SURVEY**

### **BS5837:2012: Trees in Relation to Design, Demolition and Construction - Recommendations**

**DATE OF SURVEY:** 10th May 2023

**SURVEY / REPORT REFERENCE:** AS/MF/087/23

**SITE:** Cookham Dene, Cookham Dene Close, Chislehurst, Kent, BR7 5QD

**PREPARED FOR:** Clague Architects

**SURVEY UNDERTAKEN BY:** Marcus Foster MArborA

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AIA/MF/087/23: BS5837:2012 Tree Report  
Site: Cookham Dene, Cookham Dene Close, BR7 5QD  
Prepared for: Clague Architects  
Date: May 2023



## **1.0 Instructions**

1.1 This report has been commissioned by Clague Architects to undertake a tree survey in accordance with BS5837:2012 survey for for trees within the site and neighbouring / off site locations where within close proximity of the site boundary at Cookham Dene, Cookham Dene Close, Chislehurst, Kent, BR7 5QD.

## **2.0 Scope of Works**

2.1 A site visit was conducted on 10th May 2023 to survey and assess the trees. The weather at the time of inspection was bright with cold temperatures and trees in early winter mode. The details of the subject trees are set out in the tree survey table. The trees were surveyed on the date and times shown above and the tree survey assessment information for the tree describing size, condition and surroundings are found within this schedule.

2.2 The trees located within the site are shown within drawings T001-T002 and these correspond to the tree survey schedule. These drawings are as follows:

DWG: T001 - Existing Tree Survey

DWG T002 - Tree Constraints Plan (TCP)

2.3 This report and the opinions within it have been produced by Marcus Foster, a qualified arboriculturist and Professional Member of the Arboricultural Association with over 20 years experience and holding a National Diploma in Arboriculture, the Arboricultural Association's Technicians Certificate, Professional Tree Inspection Certificate (LANTRA) as well as a degree in History and Society. Work experience within the industry includes work as a Contracts Manager for an Arboricultural Association Approved Company, a Local Authority Tree Preservation Officer and an independent Arboricultural Consultant. As a consultant many of projects undertaken are in the inner London Boroughs of Islington, Hackney, Westminster, Camden, Southwark and RBKC, making Marcus Foster familiar with the most recent requirements of development and constraints on urban trees.

## **3.0 Limitations**

3.1 No soil excavations have been carried out.

3.2 This report only considers the trees and conditions at the time of inspection. As the inspection was only visual no guarantee can be given concerning the condition of the wood at present in any of the trees inspected and furthermore that no future problems or deficiencies may arise.

3.3 No invasive tools were used during this site survey.

3.4 This report is preliminary and further investigations may be required in order to reach firm conclusions and/or further recommendations for action. No statutory checks have been made at this stage / for the purposes of issuing the survey schedule.

3.5 This survey is undertaken primarily as a survey in accordance with BS5837: 2012 and not a hazard assessment survey

## **4.0 BS5837:2012 Tree Survey Schedule**

4.1 The survey was fully undertaken by Marcus Foster on 10th May 2023

### KEY TO TREE SURVEY SCHEDULE

The following information was recorded for the tree and is shown in the Tree Schedule included in Appendix A:

- Number: an identity number which cross-references locations shown on the plans
- Species: listed by common names
- Tree Height: height in metres (m)
- Tree Spread: spread in metres (m)
- Stem diameter: measured in millimetres (mm) and taken at 1.5m above ground level
  - m/s - denotes multi-stemmed with measurement taken of largest stem at base
  - t/s - denotes twin -stemmed with measurement taken of largest stem at base
  - (e) Denotes estimate of stem diameter
  
- Age Class: Y (young); EM (early-mature); M (mature); OM (over-mature)
- Vigour: G (good); F (fair); P (poor); D (dead)
- Structural Condition: G (good); F (fair); P (poor); D (dead)
- General Condition Specific comments relating to each tree
- Estimated Remaining Contribution (years)
- BS5837 Category Grading - refer to key overleaf
- First Branch height - metres (m)
- Canopy height - metres (m)
- Protection Distance m2 Area (where applicable – BS5827: 2012)
- Protection Distance Radius (where applicable – BS5827: 2012)

## BS5837:2012 KEY



### Category 'A' trees

Trees of high quality with an estimated remaining life expectancy of at least 40 years. Trees have been categorised as 'A' trees for one of the following reasons:

- Mainly arboricultural qualities
- Mainly landscape qualities
- Mainly cultural values including conservation

Within the Site Plan (Appendix B) those trees rated as 'A' category trees have a green outline as denoted within the site plan key.



### Category 'B' trees

Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. Trees have been categorised as 'B' trees for one of the following reasons

- Mainly arboricultural qualities
- Mainly landscape qualities
- Mainly cultural values including conservation

Within the Site Plan (Appendix B) those trees rated as 'B' category trees have a blue outline as denoted within the site plan key.



### Category 'C' trees

Trees of low quality with an estimated remaining life expectancy of at least 10 years or young trees with a stem diameter below 150mm. Trees have been categorised as 'C' trees for one of the following reasons

- Arboricultural qualities - unremarkable trees of very limited merit
- Mainly landscape qualities
- Trees with no material conservation or cultural value

Within the Site Plan (Appendix B) those trees rated as 'C' category trees have a grey outline as denoted within the site plan key.



### Category 'U' trees

Trees in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years.

**BS5837:2012 TREE SURVEY**  
**SITE: Cookham Dene, Cookham Dene Close, Chislehurst, Kent, BR7 5QD**  
**SURVEY DATE: 10th May 2023**

Tree No	Species	Height (m)	DBH (mm)	Spread (m) N/E/S/W	Age	Structural Condition	Vitality	BS5837 (2012) Rating	Remaining Contribution (years)	Comments / Structural Condition	First branch height (m)	First canopy height (m)	Root Protection Area (RPA) m2	Root Protection Area (RPA) Radius (m)
T1	Sycamore	10	400	3 5 4 4	SM	F	F	C1	10+	Southern boundary siting. Ivy to 6m. Previously pollarded at 5m.	4	4	72.39	4.80
T2	Willow	14	370	6 5 4 4	SM	F	G	B1	20+	Columnar habit; growing within pleaching to north.	4	2	61.94	4.40
G3	Hornbeam	6	m/s 180	-	SM	F	F	C2	10+	23 no. pleached trees; lapsed height progressively to south.	2	2	10.18	1.80
T4	Foxglove tree	7	380	4 5 4 3	SM	F	F	C1	10+	Sited within raised planted adjacent to building. Topped at 3ml unruly re-growth.	3	3	65.33	4.60
T5	Silver maple	18	590	6 5 6 7	EM	F	G	B1	20+	Lean to south. Congested union at 4-6m; crown growing against structure to south. Generally crown lifted.	4	4	157.50	7.10
T6	London plane	10	220	5 3 3 4	SM	F	F	C1	10+	Sparse foliage/vitality to mid and upper crown. Off-site at XX.	3	3	21.90	2.60
T7	London plane	11	260	4 4 7 4	SM	F	F	B1	20+	Off-site at XX. Crown developing to south.	3	2.5	30.59	3.10
G8	Holm oak	7	m/s 200	-	SM	F	G	B1	20+	11 no. pleaches (2 no. Hornbeam and 9 no. Holm oak). Lapsed height 2-3 years.	2	1.5	12.57	2.00
T9	Paper birch maple	6	170	3 1 1 3	EM	G	G	B1	20+	Ornamental; growing against building to south.	3	3	13.08	2.00
T10	Maple	6	t/s 210	3 3 3 2	EM	F	F	C1	10+	Ornamental cultivar (unknown). Low domed habit.	2	2	13.86	2.10
T11	Maple	7	m/s 120	4 2 2 2	SM	F	F	C1	10+	Ornamental cultivar (unknown). Multi-stemmed from base.	2.5	2	4.52	1.20

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T12	Tupelo	5	120	2 2 2 2	SM	F	F	C1	10+	1 of 3 plantings. Topped at 5m height for formal effect.	2.5	2.5	6.52	1.40
T13	Tupelo	5	120	2 2 2 2	SM	F	F	C1	10+	1 of 3 plantings. Topped at 5m height for formal effect.	2.5	2.5	6.52	1.40
T14	Tupelo	5	120	2 2 2 2	SM	F	F	C1	10+	1 of 3 plantings. Topped at 5m height for formal effect.	2.5	2.5	6.52	1.40
T15	Horse chestnut	8	310	3 3 3 3	SM	F	F	C1	10+	Compact form; dieback selectively within mid-upper crown.	2.5	2	43.48	3.70
T16	Maple	6	m/s 100	2 2 2 2	Y	F	F	C1	10+	Multi-stemmed; poor union at 0.5m height.	2.5	2	3.14	1.00
G17	Hornbeam	6	m/s 120	-	SM	G	G	C1	10+	10 no. stems forming pleached screen	2	1.8	4.52	1.20
T18	Yew	4	m/s 80	1 1 1 1	SM	G	G	C1	10+	Topiary form; cyclically clipped.	-	-	2.01	1.00
T19	Yew		m/s 80	1 1 1 1	SM	G	G	C1	10+	Topiary form; cyclically clipped.	-	-	2.01	1.00
T20	Yew		m/s 80	1 1 1 1	SM	G	G	C1	10+	Topiary form; cyclically clipped.	-	-	2.01	1.00
T21	Yew		m/s 80	1 1 1 1	SM	G	G	C1	10+	Topiary form; cyclically clipped.	-	-	2.01	1.00
H22	Yew	4	m/s 80	-	SM	G	G	C1	10+	Screening hedge - 2 parts cyclically managed - annual.	-	-	2.01	1.00
G23	Hornbeam	5	m/s 100	-	Y	G	G	C2	10+	Pleached screen - 12 no. trees annually pruned.	2	1.5	3.14	1.00

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T24	Silver birch	14	400	5 4 4 3	EM	G	G	B1	20+	Southern boundary siting. Ivy to 10m height. Growing alongside off-site Ash to west.	4	4	72.39	4.80
H25	Leyland cypress	10-12	m/s 300	-	EM	F	G	C2	10+	Approx. 40m length of southern boundary screening hedge. Lapsed height - 2 to 3 years.	1	1	28.28	3.00
T26	Silver birch	14	390	3 5 3 3	EM	F	G	C2	10+	Growing from within hedge; absent lower-mid crown.	7	7	68.82	4.70
H27	Yew	2.5	m/s 80	-	Y	F	F	C2	10+	Low screening hedge.	0.5	0.5	2.01	1.00
T28	Fastigate hornbeam	9	200	3 3 3 3	SM	G	G	B2	20+	Grouping to south of trampoline. Semi-formal planting.	2.5	1.5	18.10	2.40
T29	Fastigate hornbeam	9	210	3 3 3 3	SM	G	G	B2	20+	Grouping to south of trampoline. Semi-formal planting.	2.5	1.5	19.95	2.60
T30	Fastigate hornbeam	9	190	3 3 3 3	SM	G	G	B2	20+	Grouping to south of trampoline. Semi-formal planting.	2.5	1.5	16.33	2.30
T31	Fastigate hornbeam	7	180	3 3 3 3	SM	G	G	B2	20+	Grouping to south of trampoline. Semi-formal planting.	2.5	1.5	14.66	2.20
T32	Fastigate hornbeam	8	190	3 3 3 3	SM	G	G	B2	20+	Grouping to south of trampoline. Semi-formal planting.	2.5	1.5	16.33	2.30
T33	Fastigate hornbeam	9	270	3 3 3 3	SM	G	G	B2	20+	Grouping to south of trampoline. Semi-formal planting.	2.5	1.5	32.98	3.20
T34	Silver birch	14	m/s 400	4 4 4 4	EM	G	G	B1	20+	Off-site; growing within H26 - limited overhang to site.	-	-	50.27	4.00

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T35	Fastigate hornbeam	10	200	3 3 3 3	SM	G	G	B2	20+	Semi-formal sited to north of trampoline. Developing form.	2.5	1.5	18.10	2.40
T36	Fastigate hornbeam	10	210	4 3 4 3	SM	G	G	B2	20+	Semi-formal sited to north of trampoline. Developing form.	2.5	1.5	19.95	2.50
T37	Fastigate hornbeam	10	220	3 3 3 3	SM	G	G	B2	20+	Semi-formal sited to north of trampoline. Developing form.	2.5	1.5	21.90	2.60
T38	Fastigate hornbeam	9	210	3 3 3 3	SM	G	G	B2	20+	Semi-formal sited to north of trampoline. Developing form.	2.5	1.5	19.95	2.50
T39	Hornbeam	9	230	3 3 3 3	SM	G	G	B1	20+	Semi-formal planting; developing form.	2	1.5	23.93	2.80
T40	Hornbeam	9	250	3 3 3 3	SM	G	G	B1	20+	Semi-formal planting; developing form.	2	1.5	28.28	3.00
T41	Hornbeam	9	230	3 3 3 3	SM	G	G	B1	20+	Semi-formal planting; developing form.	2	1.5	23.93	2.80
T42	Cherry	4	220	3 3 3 3	SM	P	P	U	Less than 5 years	Topped at 5m; 50% of tree dead.	-	-	/	/
T43	Cherry Tai Haku	4.5	210	3 3 3 3	SM	F	F	C1	10+	Selective pruning history; fair vitality only.	2.5	1.5	19.95	2.50
T44	Cherry Tai Haku	4.5	220	3 3 3 3	SM	F	F	C1	10+	Selective pruning history; fair vitality only.	2.5	1.5	21.90	2.60
T45	Bird cherry	10	380	4 4 3 4	EM	F	F	C1	10+	Mower damage to exposed roots; dieback to southern crown.	2.5	1.5	65.33	4.60
T46	Bird cherry	9	340	4 4 4 4	EM	F	F	C1	10+	Mower damage to exposed roots. Lean to north - detracting from semi-formality	2.5	1.5	52.30	4.10



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T47	London plane	10	280	4 4 5 4	SM	G	G	B1	20+	Developing form; lifted to 3.0m height; balanced.	3	2	35.47	3.40
T48	Cherry	7	500 (e)	0 0 2 1	M	D	D	U	0	Tree is off-site; dead/hazardous with large limb towards structure.	-	-	/	/
T49	Apple	7	m/s 300	5 5 4 4	M	F	G	B1	20+	Ornamental; multi-stemmed. Cavities throughout.	3	2	28.28	3.00
T50	Apple	5	m/s 170	3 3 3 3	EM	F	G	B1	20+	Ornamental multi-stem form.	2	2	9.08	1.70
T51	Apple	5	m/s 140	3 3 3 3	EM	F	G	B1	20+	Ornamental multi-stem form.	1.5	1.5	6.16	1.40
T52	Plum	4	100	2 2 2 2	SM	F	F	C1	10+	Ornamental; semi-formal orchard planting.	1.5	1.5	4.52	1.20
T53	Plum	4	100	2 2 2 2	SM	F	F	C1	10+	Ornamental; semi-formal orchard planting.	1.5	1.5	4.52	1.20
T54	Ash	5	200	3 3 3 3	SM	P	P	U	Less than 10 years	Reduced; largely dead.	1.5	1.5	18.10	2.40
T55	Plum	4	100	2 2 2 2	SM	F	F	C1	10+	Ornamental; semi-formal orchard planting.	1.5	1.5	4.52	1.20
T56	Plum	4	100	2 2 2 2	SM	F	F	C1	10+	Ornamental; semi-formal orchard planting.	1.5	1.5	4.52	1.20
T57	Plum	4	100	2 2 2 2	SM	F	F	C1	10+	Ornamental; semi-formal orchard planting.	1.5	1.5	4.52	1.20
T58	Apple	3	140	2 2 2 2	EM	F	F	C1	10+	Ornamental; semi-formal orchard planting.	1.5	1.5	8.87	1.70

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T59	Apple	4	m/s 120	2 2 2 2	EM	F	F	C1	10+	Ornamental; semi-formal orchard planting.	1.5	1.5	4.52	1.20
T60	Apple	4	200	2 2 2 2	EM	F	F	C1	10+	Ornamental; semi-formal orchard planting.	1.5	1.5	18.10	2.40
T61	Plum	4	100	2 2 2 2	SM	F	F	C1	10+	Ornamental; semi-formal orchard planting.	1.5	1.5	4.52	1.20
T62	Plum	4	100	2 2 2 2	SM	F	F	C1	10+	Ornamental; semi-formal orchard planting.	1.5	1.5	4.52	1.20
T63	Plum	4	100	2 2 2 2	SM	F	F	C1	10+	Ornamental; semi-formal orchard planting.	1.5	1.5	4.52	1.20
T64	Apple	3	160	2 2 3 2	EM	F	G	C2	10+	Ornamental; semi-formal orchard planting.	1.5	1.5	11.58	2.00
T65	Apple	4	160	2 2 3 2	EM	F	G	C2	10+	Ornamental; semi-formal orchard planting.	1.5	1.5	11.58	2.00
T66	Apple	4	160	2 2 3 2	EM	F	G	C2	10+	Ornamental; semi-formal orchard planting.	1.5	1.5	11.58	2.00
T67	Apple	4	160	2 2 3 2	EM	F	G	C2	10+	Ornamental; semi-formal orchard planting.	1.5	1.5	11.58	2.00
T68	Plum	5	110	2 2 2 2	SM	F	G	C1	10+	Developing form.	1.5	1.5	5.47	1.30
T69	Cypress	9	m/s 300	-	SM	F	G	C2	10+	Mixed cultivar cypress hedge - on boundary; lapsed managed 2-3 years.	1.5	1.5	28.28	3.00
T70	English oak	8	1/s 200	3 4 5 4	SM	F	F	C2	10+	Twin-stemmed; east stem topped at 5m height.	1.5	1.5	12.57	2.00

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H71	Holly	5	m/s 150	-	SM	F	G	C2	10+	Northern boundary hedge with low growth towards lawn.	1.5	1.5	7.07	1.50
T72 - T78	Plum	4	80	1 1 1 1	Y	F	F	C2	10+	Semi-formal orchard plantings. Trees reduced.	1.5	1.5	2.90	1.00
T79	English oak	14	840	7 7 5 8	EM	G	G	B2	20+	Within dense vegetation. Absent south crown. Low crown over lawn area.	4	1.5	319.25	10.10
T80	English oak	14	780	5 7 7 8	EM	G	G	B2	20+	Within dense vegetation. Low crown over lawn area.	4	1.5	275.27	9.40
T81	Silver birch	12	300	6 3 3 5	EM	F	G	B2	20+	Excessive lean to north west.	2	2	40.72	3.60
T82	English oak	16	1000 (e)	7 7 8 7	M	G	G	A1	40+	Boundary location; mature form. Lower vitality to upper crown.	5	1	452.45	12.00
G83	Sweet chestnut/ Oak/Birch/ Holly/ Sycamore	15	m/s 100- 750	-	Y-M	G	G	B2	20+	Off-site grouping with occasional vegetation within site and low west canopies overhanging by up to 3-4m.	5	1.5	254.50	9.00
T84	English oak	16	60 (e)	6 7 6 7	EM	G	G	B2	20+	Developing form; off-site. Low overhang within site up to 4m.	5	1	1.63	1.00
T85	Silver birch	10	190	3 1 2 2	SM	F	G	C1	10+	Lean to north; developing.	3	3	16.33	2.30
T86	Silver birch	10	220	3 3 2 3	SM	F	G	C1	10+	Lean to west; developing.	2.5	1	21.90	2.70
T87	Silver birch	14	340	4 3 3 3	M	F	G	B1	20+	Lean to north; dieback developing to upper crown.	4	4	52.30	4.10
T88	English oak	16	500	7 5 7 6	EM	F	G	B1	20+	Minor suppression from T89. Major deadwood.	4	3	113.11	6.00

Tree No	Species	Height (m)	DBH (mm)	Spread (m) N/E/S/W	Age	Structural Condition	Vitality	BS5837 (2012) Rating	Remaining Contribution (years)	Comments / Structural Condition	First branch height (m)	First canopy height (m)	Root Protection Area (RPA) m2	Root Protection Area (RPA) Radius (m)
T89	Scots pine	19	850	6 5 5 5	M	G	G	A1	40+	Mature form; straight bole. Play equipment attached.	4	1	326.89	10.20
T90	Silver birch	15	590	7 5 5 5	M	G	G	B1	20+	Absent upper south crown. Declining vitality to upper crown.	5	5	157.50	7.10
T91	Silver birch	15	380	3 3 3 3	EM	G	G	B1	20+	Columnar; developing form.	5	5	65.33	4.60
T92	Scots pine	18	500	5 4 4 4	EM	G	G	B1	20+	Columnar; developing form. English oak growing from base.	4	4	113.11	6.00
T93	Silver birch	16	300	4 3 3 3	EM	F	F	B2	20+	Columnar; grown to light within shard of trees. Naturally crown lifted.	4	4	40.72	3.60
T94	Silver birch	16	320	4 3 3 3	EM	F	F	B2	20+	Columnar; grown to light within shard of trees. Naturally crown lifted.	4	4	46.33	3.90
T95	Silver birch	16	210	3 3 3 3	EM	F	F	B2	20+	Columnar; grown to light within shard of trees. Naturally crown lifted.	4	4	19.95	2.50
T96	Silver birch	16	390	3 3 3 5	EM	F	F	B2	20+	Columnar; grown to light within shard of trees. Naturally crown lifted.	4	4	68.82	4.70
T97	Silver birch	16	300	3 3 3 4	EM	F	F	B2	20+	Columnar; grown to light within shard of trees. Naturally crown lifted.	4	4	40.72	3.60
T98	Silver birch	16	210	2 2 2 2	EM	F	F	B2	20+	Columnar; grown to light within shard of trees. Naturally crown lifted.	4	4	19.95	2.50
T99	Silver birch	16	380	2 3 4 3	EM	F	F	B2	20+	Columnar; grown to light within shard of trees. Naturally crown lifted.	4	4	65.33	4.60
T100	Silver birch	16	210	2 3 4 2	EM	F	P	C2	10+	Absent/dead eastern crown. Limited lifespan comparatively within grouping.	4	5	19.95	2.50

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T101	Scots pine	19	690	6 6 4 4	EM	G	G	A1	40+	Lean to north east. Playstructure attached. Full upper crown developing.	12	10	215.41	8.30
T102	Sycamore/ Ash	15	m/s 240	4 4 4 4	SM	F	F	C1	10+	Multi-stem Sycamore and Ash; Sycamore topped	5	4	18.10	2.40
T103	Cherry	12	260	4 3 3 3	SM	F	F	C1	10+	Columnar; developing form.	5	4	30.59	3.10
T104	English oak	16	800 (e)	7 7 6 7	M	F	G	B1	20+	Off-site to south. Limited overhang to site.	6	4	289.57	9.60
T105	English oak	12	900 (e)	5 7 5 5	M	F	G	B1	20+	Off-site to east. Overhang within site at 8-12 months. Low domed mature form.	6	6	366.48	10.80
T106	English oak	18	1000 (e)	7 7 7 7	M	G	G	A1	40+	Off-site. Overhang at 10-15m - 3-4m branch lengths. Mature form.	10	10	452.45	12.00
T107	Ash	16	500 (e)	6 3 5 8	EM	F	F	C1	10+	Heavily leans, overhangs site by 6m branch lengths at 8-16m height. Major deadwood.	8	8	113.11	6.00
T108	Cherry	15	400 (e)	5 7 4 7	M	F	G	B1	20+	Heavily overhang within site. Low branches form 4m overhanging by 5-6m.	7	3	72.39	4.80

## 5.0 **BS5837:2012 Tree Survey Drawings**

DWG T001 - Existing Tree Survey

DWG T002 - Tree Constraints Plan (TCP)

Colour Key: BS5837: 2012 (see Section 4.0 for detailed key)

 Category A

 Category B

 Category C

 Category



KEY

	CATEGORY A
	CATEGORY B
	CATEGORY C
	CATEGORY U
	TREES REMOVED
	RPA
	RPA INCURSION
	SHADING ARC

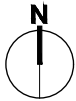
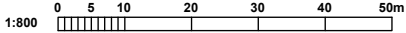
BS5837 (2012) Tree Survey Notes

- In accordance with BS5837(2012) this drawing is a colour coded schedule and should not be read in black and white
- If received electronically it is the recipients responsibility to print this drawing to correct scale. Only written dimensions should be used where not printed to scale.
- This drawing should be read in conjunction with all other relevant drawings and specifications
- Marcus Foster Arboricultural Design & Consultancy accepts no liability for any use of this document other than by its client and only for the purposes for which it was prepared and provided
- Off site trees have been plotted based on site visit survey and locations are not based upon topographical survey

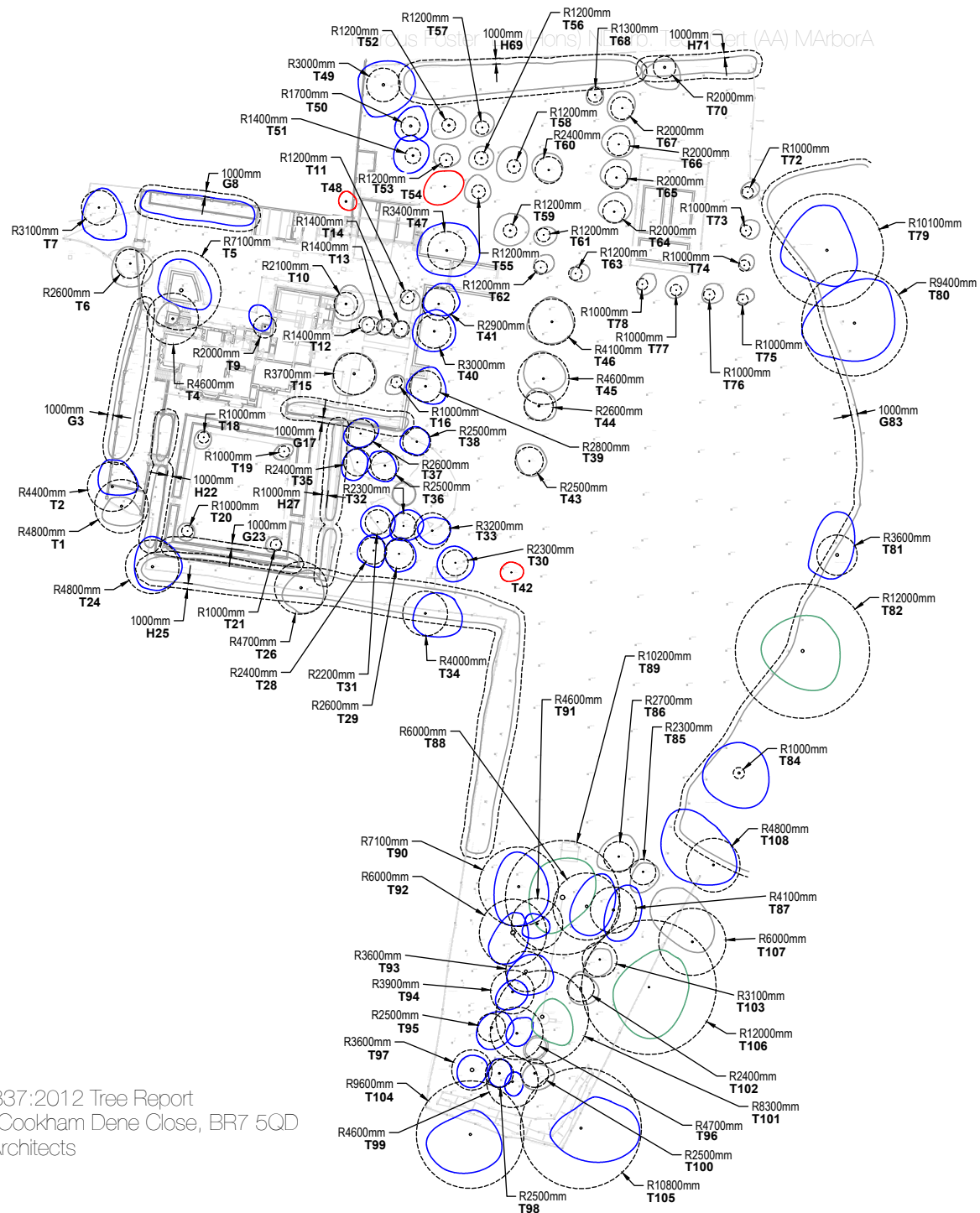
NOTE: Tree survey locations based on previous undertaken topographical surveys for design issue and additional GIS mapping has not been undertaken for the purposes of this survey  
 All off site trees where not plotted within topographic survey information are plotted using on site survey tools from within the site only.

Revisions		
Rev.	Date	Checked
1	22.05.2023	MF
SITE Cookham Dene, Kent, BR7 5QD		
CLIENT Clague Architects		
DWG TITLE Existing Tree Survey Plan		
SCALE 1:800 @ A3	DATE MAY 2023	
JOB NO AIA/MF/089/23	DWG NO T001	

AIA/MF/087/23: BS5837:2012 Tree Report  
 Site: Cookham Dene, Cookham Dene Close, BR7 5QD  
 Prepared for: Clague Architects  
 Date: May 2023



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KEY

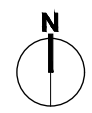
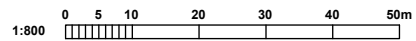
	CATEGORY A
	CATEGORY B
	CATEGORY C
	CATEGORY U
	TREES REMOVED
	RPA
	RPA INCURSION
	SHADING ARC

**BS5837 (2012) Tree Survey Notes**

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NOTE: Tree survey locations based on previous undertaken topographical surveys for design issue and additional GIS mapping has not been undertaken for the purposes of this survey. All off site trees where not plotted within topographic survey information are plotted using on site survey tools from within the site only.

AIA/MF/087/23: BS5837:2012 Tree Report  
 Site: Cookham Dene, Cookham Dene Close, BR7 5QD  
 Prepared for: Clague Architects  
 Date: May 2023



Revisions		
Rev.	Date	Checked
1	22.05.2023	MF
SITE: Cookham Dene, Kent, BR7 5QD		
CLIENT: Clague Architects		
DWG TITLE: Tree Constraints Plan		
SCALE: 1:800 @ A3	DATE: MAY 2023	
JOB NO: AIA/MF/089/23	DWG NO: T002	

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## 6.0 Tree Survey Photographs (10/05/23 by M Foster)



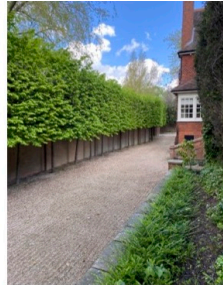
Trees T5 & T6 viewed to south



Trees T11-T12 viewed to south



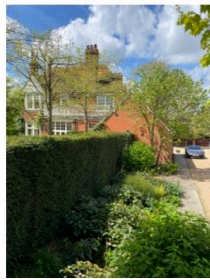
Trees T9 viewed to south



H3 viewed to west



Trees T14-T17 viewed to south



Trees T11-T14 viewed to west



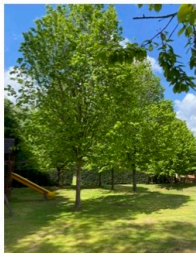
Trees T40-41 & T47 viewed to north west



H25 & H27 and associated trees viewed to south



Trees T40-41 & T47 viewed to north west



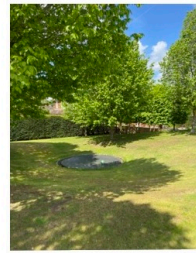
Trees T28-T30 viewed to north west



Orchard area - T50-T72 viewed to north east



H22 and associated trees viewed to west



Trees T31-T37 viewed to north west



G8 viewed to north west



Main gardens viewed to north



Main gardens viewed to north east



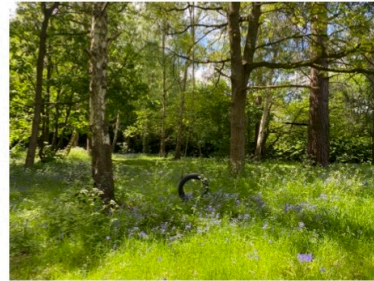
Gardens to south of main house viewed to north west



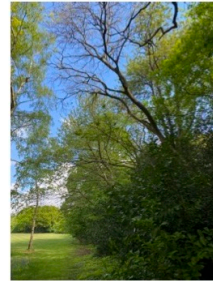
Gardens to south of main house



Main gardens viewed to north - orchard area T52-T72



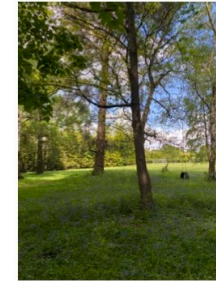
Southern garden area - trees T85-T103



Off site eastern boundary - T104-T108 viewed to north



Tree T101 viewed to west



Tree T89 and others viewed to north



## **7.0 Glossary of Terms**

### **Root Protection Area (RPA)**

The area defined as requiring protection from development from retained trees within BS5837 (2012). Using a calculation provided within BS5837 a radius distance is provided based on a measurement of the main stem taken at 1.5m height.

### **Tree Constraints Plan (TCP)**

A Tree Constraints Plan (TCP) shows the below-ground constraints represented by the Root Protection Areas (RPAs) and any above-ground constraints which might arise from the following

- The current and ultimate height and spread of the tree; and
- Species characteristics, including evergreen or deciduous, density of foliage, and factors such as susceptibility to honeydew drip, branch drop, fruit fall, etc.

### **Construction Exclusion Zone (CEZ)**

This is the RPA where no construction activity should occur and damage is prevented by either installing fencing to restrict access or installing ground protection that allows limited access above the ground, while protecting the rooting environment below. Due to site constraints and the encroaching nature of development for an area within the RPA outside the CEZ where works are proposed, works must be carried out with care to minimise any impact on the tree rooting environment.

### **Tree Protection Plan (TPP)**

The document which defines the extent and methodology of tree protection for the entire development process. This should be referred to AT ALL TIMES by the principal contractor and shall ensure safe protection of all retained trees on site.

### **Precautionary Area**

An area where works must be undertaken with direct consultation with methodology as specified within the AMS report and / or scheme of Arboricultural supervision

## **8.0 References**

1. Principles of Tree Hazard Assessment and Management, Lonsdale, D. (Department for Transport, Local Government and the Regions, 1999)
2. The Body Language of Trees, Mattheck, C. and Breloer, H. (HMSO, 1994)
3. Trees in Britain, Philips, R. (Pan Books, 1978)
4. Diagnosis of Ill Health in Trees, Strouts, R. and Winter, (TSO, 1994)
5. BS3998: Tree Work – Recommendations (2010)
6. BS5837: Trees in relation to design, demolition and construction (2012)