



Arboricultural Survey to BS5837:2012

Eastmere Paddocks

**Hill View and Wayside
Eastergate Lane
PO20 3SJ**

23 August 2024

Chris Poplett Dip Arb L4 MARbora

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This report has been released electronically and the appendices have been included at the end of this report. Plans are included as A0, A1, A2 or A3 as appropriate.

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1. Introduction

Arbtech Consulting Limited (Arbtech) received written instruction on 25 July 2024 from Eastmere Paddocks to attend Hill View and Wayside, Eastergate Lane, PO203SJ; grid reference, SU 94873 06052 (site) to undertake an arboricultural survey to BS5837:2012 guidance to assess trees, hedges and major shrub groups growing on and within influencing distance of the site and to produce a Schedule of Trees and a Tree Constraints Plan.

I am Chris Poplett, an arboricultural consultant at Arbtech Consulting Ltd. I undertook the tree survey on 19 August 2024 and subsequently have produced this summary of my findings.

Chris Poplett has accumulated experience within the arboricultural industry since 1996. Qualified to Level 4 Diploma and has Lantra professional tree inspector certification. Chris Poplett has been awarded professional membership of the Arboricultural association and is a certified soil food web laboratory technician.

The advice below and appended is underwritten by our Professional Indemnity insurance for the business practice of Arboricultural Consultancy in the sum of one million Pounds Sterling in each and every claim.

Table 1: Documents referred to.

Document	Reference No.
Survey base drawing	1077/01 and ENC/240524/3403/T
LPA pre-app comments	N/A
British Standard 5837:2012	“BS5837”
Tree Survey Schedule	Arbtech TS 01
Tree Constraints Plan	Arbtech TCP 01

2. Survey

Survey: An arboricultural survey to BS5837 of all trees within impacting distance of the site was undertaken by Chris Poplett on 19 August 2024.

During the survey I categorised the trees using “Table 1 – Cascade chart for tree quality assessment” of the BS5837:2012 (see Appendix 1).

A total of forty-eight (48) individual trees, eight (08) groups of trees and four (04) hedges were surveyed. Details for each of the trees surveyed are provided in the Schedule of Trees (see Appendix 2).

Table 2: Documents upon which this tree survey has been based.

Document	Originator	Reference Number	Title
Survey Base Drawing 1	Encompass Surveys	ENC/240524/3403/T	--
Survey Base Drawing 2	Sloan & Brown	1077/01	Existing Site Layout plan

Limitations: The survey was made at ground level using visual observation only. Detailed examinations, such as climbing inspections and advanced decay detection equipment were not employed, though may form part of the survey's management recommendations. Measurements were taken using specialist tapes, laser, and GPS devices. Where this was not possible, measurements are estimated.

Scope: Pre-development tree surveys make arboricultural management recommendations based exclusively upon the individual tree or group of trees condition relative to their present context (*i.e. not in relation to the proposed development*).

Legal Status: No statutory protection check has been performed. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order ("TPO"), and those trees without. This is principally because a detailed planning consent overrides any TPO protection. Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.

* For more information on the surveyed trees please see Arbtech Consulting Ltd, Tree Survey Schedule (Appendix 1), Tree Survey Report and Tree Constraints Plan.

Site description

Disused industrial park to the east (brown field) and an old apple orchard to the west of the site.

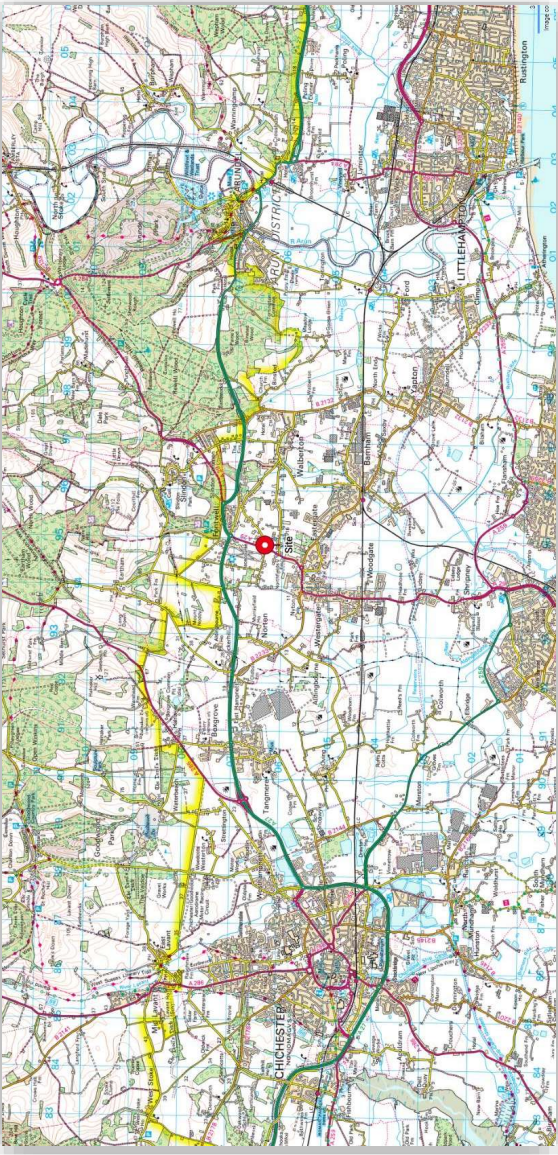


Figure 1: OS Map showing the site location (Bing Maps)



Figure 2: Aerial Image of site with approximate red line boundary (Google Earth)

3. BS5837:2012 Scope

This standard recognises that there can be problems for development close to existing trees which are to be retained, and of planting trees close to existing structures. This standard sets out to assist those concerned with trees, in relation to construction, to form balanced judgements. It does not set out to put arguments for or against development, or for the removal or retention of trees. Where development, including demolition, is to occur, the standard provides guidance on how to decide which trees are appropriate for retention, on the means of protecting these trees during development, including demolition and construction work, and on the means of incorporating trees into the developed landscape.

4. Methodology

The methodology used to assess the trees was the British Standard 5837:2012 ‘Trees in Relation to Construction’ tree survey method. The aim of the survey is to establish which trees are moderate and good quality; suitable for retention and justifying protection. And which trees are low or poor quality; either undesirable or unsuitable to retain and protect.

The tree survey includes all trees included in the land survey red line boundary plan, as well as any that may have been missed, and it should categorize trees or groups of trees, including woodlands for their quality and value within the existing context, in a transparent, understandable, and systematic way. Where the arboriculturist has deemed it appropriate, the trees have been tagged with small metal or plastic tags, placed as high as is convenient on the stem of each tree.

Whilst master plan proposals for the development of the site might be available, the trees have been surveyed without taking these into consideration. All detailed design work on site layout should take into consideration the results of the tree survey (and the TCP).

Trees forming groups and areas of woodland (including orchards, wood pasture and historic parkland) are identified and considered as groups where the arboriculturist has determined that this is appropriate, particularly where they contain a variety of species and age classes that could aid long-term management. It is often expedient to assess the quality and value of such groups of trees as a whole, rather than as individuals. However, an assessment of individuals within any group has been undertaken if they are open-grown or if there is a need to differentiate between them.

The quality and value of each tree or group of trees has been recorded by allocating it to one of the four categories: **A**, **B**, **C**, or **U** (highest to lowest quality respectively). The categories are differentiated on the tree survey plan by colour, or by suffixing the category adjacent to the tree identification number on the TCP.

The survey schedule lists all the trees or groups of trees. The following information is also provided:

- a) reference number (to be recorded on the tree survey plan);
- b) species (common or scientific names);
- c) height in meters (m);
- d) stem diameter in millimetres (mm) at 1.5m above adjacent ground level or immediately above the root flare for multi-stemmed trees;
- e) branch spread in meters taken at the four cardinal compass points;
- f) height of crown clearance above adjacent ground level in meters (m);
- g) age class (newly planted, young, semi-mature, early mature, mature, over mature);
- h) physiological condition (e.g. good, fair, poor, decline and dead);
- i) structural condition (e.g. good, fair, poor or not visible);
- j) comment about the tree, its location and preliminary management recommendations, including further investigation of suspected defects that require more detailed assessment and potential for wildlife habitat;
- k) The retention category referring to the quality and useful contribution in years; **U** = <10yrs; **A** = >40yrs; **B** = >20yrs; **C** = >10yrs. The retention subcategory referring to the type of amenity; 1 = Arboricultural; 2 = Landscape; 3 = Cultural including conservation (see Appendix 1 Cascade chart for tree quality assessment).

5. Definitions

Arboriculturist

An arboriculturist (or arboricultural consultant) is a person who has, through relevant education, training, and experience, gained recognized qualifications and expertise in the field of trees in relation to construction.

Tree Survey

A tree survey should be undertaken by an arboriculturist and should record information about the trees on a site independently of and prior to any specific design for development. As a subsequent task, and with reference to a design or potential design, the results of the survey should be included in the preparation of a tree constraints plan, which should be used to assist with site layout design.

Tree Constraints Plan

A TCP is plan, typically delivered as an AutoCAD drawing (.DWG file format), prepared by an arboriculturist for the purposes of layout design showing the root protection area and representing the effect that the mature height and spread of retained trees will have on layouts through shade, dominance, etc.

Root Protection Area

An RPA is a layout design tool indicating the area surrounding a tree that contains sufficient rooting volume to ensure the survival of the tree, shown in plan form in m².

Construction Exclusion Zone (also termed Tree Protection Zone)

A construction exclusion or tree protection zone is an area based on the RPA (in m²), identified by an arboriculturist, to be protected during development, including demolition and construction work, by the use of barriers and/or ground protection fit for purpose to ensure the successful long-term retention of a tree.

Arboricultural Impact Assessment (AIA)

This is a study, undertaken by an arboriculturist, to identify, evaluate and possibly mitigate the extent of direct and indirect impacts on existing trees that may arise as a result of the implementation of any site layout proposal.

Tree Protection Plan (TPP)

A TPP is plan, typically delivered as an AutoCAD drawing (.DWG file format), prepared by an arboriculturist showing the finalized layout proposals, tree retention and tree and landscape protection measures detailed within the arboricultural method statement, which can be shown graphically.

Arboricultural Method Statement (AMS)

This is a methodology for the implementation of any aspect of development that has the potential to result in loss of or damage to a tree. The AMS is likely to include details of an on-site tree protection monitoring regime.

6. Recommendations

With the benefit of making an assessment of your planning proposals, I make the following recommendation to ensure that there are no irrevocable issues to the proposed retained trees and so that no conditions relating to arboriculture are attached to any planning consent secured; obtain an arboricultural report to include:

- a) An arboricultural impact assessment (AIA).
- b) An arboricultural method statement (AMS).
- c) A tree protection plan drawing (TPP).

7. Limitations

Trees were inspected from using visual observation from ground level only. Trees were not climbed or inspected below ground level. Inaccessible trees will have best estimates made about the location, physical dimensions, and characteristics. Trees have been grouped where BS5837 guides us that it is expedient to do so. Trees have been excluded from the survey if they are found by us to be sufficiently far away from the proposed developable area or if they are outside of the red line boundary plan showing the expectations of our client for the extent of the survey. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order (“TPO”), and those trees without. This is principally because a detailed planning consent overrides any TPO protection. Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.

This report does not constitute a tree safety survey, nor does it fulfil the stewards/landowners Duty of Care in relation to tree risk.

8. Appendices

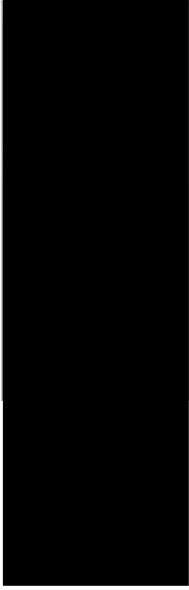
The following documents were released to the Client as appendices to this report:

- Survey Schedule (.PDF)
- Tree Constraints Plan drawing (.DWG & .PDF)

If you require clarification of information contained herein, please do not hesitate to contact u[REDACTED]

Yours Sincerely,

[REDACTED]
Chris Poppett Dip Arb L4 MARbora
Arboricultural Consultant



Appendix 1: Table 1 Cascade chart for tree quality assessment

BS5837:2012 Trees in relation to design, demolition and construction – Recommendations

Table 1 Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories when appropriate)			Identification on plan
Trees unsuitable for retention (see Note)				
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years.	▪Trees that have serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning). ▪Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline. ▪Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality. <i>NOTE Category U trees can have existing or potential conservation value which might be desirable to preserve; see 4.5.7.</i>			Dark red
1 Mainly arboricultural qualities 2 Mainly landscape qualities 3 Mainly cultural values, including conservation				
Trees to be considered for retention				
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years.	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominate and/or principal trees within an avenue).	Trees, groups, or woodlands of particular visual importance as arboricultural and/or landscape features.	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture).	Light green
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remedial defects, including unsympathetic management and storm damage), such that they are unlikely to be suitable for retention of beyond 40 years; or trees lacking the special quality necessary to merit the category 'A' designation.	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality.	Trees with material conservation or other cultural value.	Mid blue
Category C Trees of low quality with an estimated remaining expectancy of at least 10 years, or young trees with a stem diameter below 150mm.	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories.	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape value.	Trees with no material conservation or other cultural value.	Grey



Appendix 2: Schedule of Trees

BS5837:2012 Tree Survey

Arbtech consulting ltd

Client: Eastmere Paddocks Ltd
 Project: Hill View and Wayside, Eastergate Lane, PO203SJ
 Survey Date: 19/08/2024
 Surveyor: Chris Poplett



Unit 3 Well House Barns
 Chester Road
 Chester
 Cheshire
 CH4 0DH

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC	
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment				
G01												Estimated Measurements			
Various <i>see comments for details</i>		16	1	420	N	5	2	M	A: 79.8 R: 5.03	Good	C: Good S: Not visible B: Not visible	Off site mixed species group comprising of sycamore, ash, leyland cypress, common holly, goat willow and Lombardy poplar. Vegetation obscuring observations of stems and base. Dimensions recorded are the largest represented within the group. Historical pruning works to raise canopy height to current dimensions on southern aspect.			B.2 20+ yrs
G02												Estimated Measurements			
Leyland Cypress <i>X Cupressocyparis leylandii</i>		16	1	480	N	4	6	M	A: 104.2 R: 5.75	Fair	C: Fair S: Not visible B: Not visible	Off site group. Historical pruning works to raise canopy height over workshops to current dimensions. Dead stems amongst group up to 200mm diameter X 5m length. Access restricting observations of stems and base. Dimensions recorded are the largest represented within the group.			B.2 20+ yrs
G03												Estimated Measurements			
Cherry <i>Prunus sp.</i>		7	1	260	N	4	3	M	A: 30.6 R: 3.12	Good	C: Good S: Not visible B: Not visible	X2 individual trees within the group. Historical pruning works to raise canopy height over workshops to current dimensions. 200x100mm opening at base of tree on western aspect. Vegetation obscuring observations of stems and base. X2; 1m length x 80mm stubs from base on western aspect. Dimensions recorded are the largest represented within the group.			C.2 20+ yrs
Age Classifications:		N	Newly planted	EM	Early Mature		Condition:		C	Crown	Stems:		Ø	Diameter	
	Y	Young	M	Mature					S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition	
	SM	Semi-mature	OM	Over Mature					B	Basal area	ERC:		Estimated Remaining Contributio		

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
H01											Estimated Measurements	
Common Beech <i>Fagus sylvatica</i>	2	1	80	N E S W	1 1 1 1	0 0 0 0	M A: 2.9 R: 0.96	Good	C: Good S: Not visible B: Not visible	Boundary hedge formally maintained to current dimensions. Vegetation obscuring observations of stems and base. Dimensions recorded are the largest represented within the hedge.	C.2 20+ yrs	
H02											Estimated Measurements	
Common Beech <i>Fagus sylvatica</i>	2	1	80	N E S W	1 1 1 1	0 0 0 0	M A: 2.9 R: 0.96	Good	C: Good S: Not visible B: Not visible	Boundary hedge formally maintained to current dimensions. Vegetation obscuring observations of stems and base. Dimensions recorded are the largest represented within the hedge.	C.2 20+ yrs	
H03											Estimated Measurements	
Cherry <i>Prunus sp.</i>	5	1	120	N E S W	2 2 2 2	0 0 0 0	M A: 6.5 R: 1.43	Good	C: Good S: Not visible B: Not visible	Historically maintained to current dimensions. Vegetation obscuring observations of stems and base. Dimensions recorded are the largest represented within the hedge.	C.2 20+ yrs	
H04											Estimated Measurements	
Common Beech <i>Fagus sylvatica</i>	2.5	1	80	N E S W	1 1 1 1	0 0 0 0	EM A: 2.9 R: 0.96	Good	C: Good S: Not visible B: Not visible	Formally maintained to current dimensions. 10m length of the hedge on southern aspect has been engulfed with bramble. Vegetation obscuring observations of stems and base. Dimensions recorded are the largest represented within the group.	C.2 20+ yrs	
T01												
Common Laburnum <i>Laburnum anagyroides</i>	4	1	200	N E S W	1.5 1.5 1.5 2	2 2 2 2	M A: 18.1 R: 2.4	Fair	C: Fair S: Good B: Good	Approximately 10% lower than expected foliage density for age class and species.	C.1 10+ yrs	
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature			Condition:	C S B	Crown Stem Basal area	Stems:	Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition	ERC: Estimated Remaining Contributio

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T02		Estimated Measurements											
Lombardy Poplar <i>Populus nigra 'Italica'</i>		10	1	560	N E S W	3 3 3 3	4 4 4 4	M A: 141.9 R: 6.72	Good	C: Fair S: Not visible B: Not visible	Off site tree. Historically pollarded at 5m. 60mm diameter regrowth from points of wounding. Boundary fence obscuring observations of stem and base.		B.1 20+ yrs
T03													
Cherry <i>Prunus sp.</i>		2	1	300	N E S W	1 1 1 1	1 1 1 1	M A: 40.7 R: 3.59	Poor	C: Poor S: Poor B: Poor	Historically topped at 4m. Extensive decay to base and stem. Ganoderma fungal fruit bodies clustered along main stem on northern aspect.		U <10 yrs
T04													
Cherry <i>Prunus sp.</i>		2	1	300	N E S W	1 1 1 1	1 1 1 1	M A: 40.7 R: 3.59	Dead	C: Poor S: Poor B: Poor	Dead 2m monolith.		U n/a
T05													
Cherry <i>Prunus sp.</i>		4	1	300	N E S W	1 1 1 1	1 1 1 1	M A: 40.7 R: 3.59	Poor	C: Poor S: Poor B: Poor	Ganoderma fungal fruit bodies at base. Crown has died back to Basel sprouts. Major dead wood up to 140mm diameter X 4m length.		U <10 yrs
T06													
Common Oak <i>Quercus robur</i>		11	1	760	N E S W	4 6 7 3	1 2 2 5	M A: 261.3 R: 9.11	Good	C: Good S: Good B: Good	Historical pruning works to reduce canopy spread on northern aspect. Associated wounding up to 100mm diameter between 2m and 5m from ground level.		B.1 40+ yrs
T07													
Cherry <i>Prunus sp.</i>		7	1	440	N E S W	2 3 2 3	1 1 1 1	M A: 87.6 R: 5.28	Poor	C: Poor S: Poor B: Fair	Tree has died back to epicormic's growing from stem at approximately 1.5m. major dead wood in crown up to 200mm diameter X 3m length.		U <10 yrs
Age Classifications:		N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:		Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition	ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T08											Estimated Measurements	
Common Hawthorn <i>Crataegus monogyna</i>	5	1	200	N	3	1	M	A: 18.1 R: 2.4	Good	C: Good S: Not visible B: Not visible	Off site tree. Vegetation obscuring observations of stem and base. No significant features have been observed.	C.1 20+ yrs
T09												
Common Oak <i>Quercus robur</i>	20	1	1040	N	10	2	M	A: 489.4 R: 12.48	Good	C: Good S: Good B: Good	Dead wood in crown up to 80mm diameter X 5m length.	A.1 40+ yrs
T10												
Common Oak <i>Quercus robur</i>	20	1	1010	N	8	2	M	A: 461.5 R: 12.12	Good	C: Good S: Good B: Good	450mm diameter X 12m length fractured limb has collapsed to ground level towards the east. Limb still attached to main stem. Location of fracture, approximately 200mm from point of attachment to main stem at 2.5m from ground level on eastern aspect.	B.1 40+ yrs
T11												
Common Oak <i>Quercus robur</i>	20	2	1573 (Eq)	N	10	12	M	A: 707 R: 15	Good	C: Good S: Good B: Good	Major dead wood in crown up to 200mm diameter X 5m length.	A.1 40+ yrs
T12												
Monterey Cypress <i>Cupressus macrocarpa</i>	15	1	870	N	5	10	M	A: 342.5 R: 10.44	Good	C: Good S: Good B: Good	Major dead wood within crown up to 100mm diameter X2m length.	B.1 20+ yrs
T13												
Common Oak <i>Quercus robur</i>	20	1	1020	N	10	2	M	A: 470.7 R: 12.24	Good	C: Good S: Not visible B: Not visible	Off site tree. Vegetation obscuring observations of stem and base. Dead wood in crown up to 80mm diameter X 5m length.	A.1 40+ yrs
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature			Condition:	C S B	Crown Stem Basal area	Stems:	Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition	ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T14											Estimated Measurements	
Monterey Cypress <i>Cupressus macrocarpa</i>	15	1	850	N	5	10	M	A: 326.9 R: 10.2	Good	C: Good S: Not visible B: Not visible	Off site tree.Vegetation obscuring observations of stem and base. Major dead wood in crown up to 150mm diameter X 3m length.	B.1 20+ yrs
T15												
Bay <i>Laurus nobilis</i>	4	3	146 (Eq)	N	2	1	EM	A: 9.6 R: 1.74	Good	C: Good S: Good B: Good	No significant features have been observed.	C.1 20+ yrs
T16												
Common Holly <i>Ilex aquifolium</i>	5	1	150	N	2	2	EM	A: 10.2 R: 1.8	Good	C: Fair S: Not visible B: Not visible	Bramble colonising crown spread. Vegetation obscuring observations of stems and base.	C.1 10+ yrs
T17												
Common Hazel <i>Corylus avellana</i>	5	3	139 (Eq)	N	2	2	EM	A: 8.7 R: 1.66	Good	C: Good S: Not visible B: Not visible	Vegetation obscuring observations of stem and base. No significant features have been observed.	C.1 20+ yrs
T18												
Common Beech <i>Fagus sylvatica</i>	10	1	330	N	4	2	EM	A: 49.3 R: 3.96	Good	C: Good S: Not visible B: Not visible	No significant features have been observed. Vegetation obscuring observations of stem and base.	B.1 20+ yrs
T19												
Silver Birch <i>Betula pendula</i>	12	1	280	N	3	2	M	A: 35.5 R: 3.36	Good	C: Good S: Not visible B: Not visible	Off site tree. Vegetation obscuring observations of stem and base. Asymmetrical crown shape due to presence of partner tree.	C.1 20+ yrs
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature			Condition:	C S B	Crown Stem Basal area		Stems: Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition ERC: Estimated Remaining Contributio	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T20										Estimated Measurements		
Common Holly <i>Ilex aquifolium</i>	10	1	260	N	2	2	EM	A: 30.6 R: 3.12	Good	C: Good S: Not visible B: Not visible	Vegetation obscuring observations of stem and base. No significant features have been observed.	C.1 20+ yrs
T21												
Unknown - -	4	1	210	N	1	0.5	EM	A: 20 R: 2.52	Dead	C: Poor S: Poor B: Poor	Dead tree.	U n/a
T22										Estimated Measurements		
Winter Cherry <i>Prunus subhirtella</i>	5	1	260	N	3	2	M	A: 30.6 R: 3.12	Good	C: Good S: Not visible B: Not visible	Boundary hedge obscuring observations of stem and base. No significant features have been observed.	C.1 10+ yrs
T23										Estimated Measurements		
Cherry <i>Prunus sp.</i>	6	1	240	N	3	1	M	A: 26.1 R: 2.88	Good	C: Good S: Not visible B: Not visible	Off site tree. Vegetation obscuring observations of stem and base. No significant features have been observed.	C.1 20+ yrs
T24												
Judas Tree <i>Cercis siliquastrum</i>	0	2	262 (Eq)	N	2	5	M	A: 31 R: 3.14	Good	C: Good S: Good B: Fair	Ganoderma applanatum or australe fungal fruit body at base of tree on eastern aspect. Asymmetrical crown shape due to presence of partner trees.	C.1 10+ yrs
T25												
Cherry <i>Prunus sp.</i>	6	1	140	N	3	2		A: 8.9 R: 1.68	Good	C: Good S: Good B: Good	No significant features have been observed.	C.1 10+ yrs
Age Classifications: N Newly planted Y Young SM Semi-mature EM Early Mature M Mature OM Over Mature Condition: C Crown S Stem B Basal area Stems: Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition ERC: Estimated Remaining Contributio												

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T26											Estimated Measurements	
English Elm <i>Ulmus procera</i>	12	1	300	N	5	2	M	A: 40.7 R: 3.59	Dead	C: Poor S: Poor B: Poor	Off site dead tree.	U n/a
T27											Estimated Measurements	
Sycamore <i>Acer pseudoplatanus</i>	17	1	400	N	5	5	M	A: 72.4 R: 4.8	Good	C: Good S: Not visible B: Not visible	Off site tree. Vegetation obscuring observations of stems and base. No significant features have been observed.	B.1 20+ yrs
T28												
Tulip Tree <i>Liriodendron tulipifera</i>	12	1	280	N	5	4	M	A: 35.5 R: 3.36	Good	C: Good S: Good B: Good	Asymmetrical crown shape due to presence of partner trees.	B.1 20+ yrs
T29											Estimated Measurements	
Common or Black Elder <i>Sambucas nigra</i>	4	1	180	N	2	2	EM	A: 14.7 R: 2.16	Good	C: Good S: Not visible B: Not visible	Off site tree. Boundary fence obscuring observations of stem and base. No significant features have been observed.	C.1 10+ yrs
T30											Estimated Measurements	
Cultivated Apple <i>Malus domestica</i>	3	3	266 (Eq)	N	2	1.5	M	A: 31.9 R: 3.18	Good	C: Good S: Good B: Good	Orchard tree. Historical pruning works to reduce canopy height and spread. Approximately 10mm diameter regrowth from points of wounding.	C.1 10+ yrs
T31												
Common Ash <i>Fraxinus excelsior</i>	7	2	184 (Eq)	N	4	1	EM	A: 15.4 R: 2.21	Good	C: Good S: Fair B: Good	300mm of bark inclusion where stems bifurcate at 500mm from ground level. Asymmetrical crown shape due to presence of partner tree.	C.1 20+ yrs
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature			Condition:	C S B	Crown Stem Basal area		Stems: ERC:	Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T32												
Common Ash <i>Fraxinus excelsior</i>	9	1	300		N E S W	5 4 4 4	1 1 1 1	EM A: 40.7 R: 3.59	Good	C: Good S: Good B: Good	No significant features have been observed.	B.1 20+ yrs
T33											Estimated Measurements	
Cultivated Apple <i>Malus domestica</i>	4	3	266	(Eq)	N E S W	2 2 2 2	1.5 1.5 1.5 1.5	M A: 31.9 R: 3.18	Fair	C: Fair S: Good B: Good	Orchard tree. Historical pruning works to reduce canopy height and spread. Approximately 10mm diameter regrowth from points of wounding. X2 dead branches up to 130mm diameter X 2m length.	C.1 10+ yrs
T34											Estimated Measurements	
Cultivated Apple <i>Malus domestica</i>	4	3	266	(Eq)	N E S W	2 2 2 2	1.5 1.5 1.5 1.5	M A: 31.9 R: 3.18	Good	C: Good S: Good B: Good	Orchard tree. Historical pruning works to reduce canopy height and spread. Approximately 10mm diameter regrowth from points of wounding.	C.1 10+ yrs
T35											Estimated Measurements	
Cultivated Apple <i>Malus domestica</i>	3	3	266	(Eq)	N E S W	2 2 2 2	1.5 1.5 1.5 1.5	M A: 31.9 R: 3.18	Good	C: Good S: Good B: Good	Orchard tree. Historical pruning works to reduce canopy height and spread. Approximately 10mm diameter regrowth from points of wounding.	C.1 10+ yrs
T36											Estimated Measurements	
Cultivated Apple <i>Malus domestica</i>	4	3	266	(Eq)	N E S W	2 2 2 2	1.5 1.5 1.5 1.5	M A: 31.9 R: 3.18	Good	C: Good S: Good B: Good	Orchard tree. Historical pruning works to reduce canopy height and spread. Approximately 10mm diameter regrowth from points of wounding.	C.1 10+ yrs
T37												
Common Ash <i>Fraxinus excelsior</i>	5	1	80		N E S W	1 1 1 1	1 1 1 1	SM A: 2.9 R: 0.96	Good	C: Good S: Good B: Fair	Base of tree situated inside a planting container. The tree has broken through the side of the container and rooted Into the ground.	C.1 20+ yrs
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature				Condition:	C S B	Crown Stem Basal area	Stems: Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition ERC: Estimated Remaining Contributio	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T38											Estimated Measurements	
Cultivated Apple <i>Malus domestica</i>	2.5	1	160	N	3	1.5	M	A: 11.6 R: 1.92	Poor	C: Fair S: Poor B: Poor	Orchard tree in decline. Dysfunctional bark at base associated with X2 100mm diameter wounds, 400mm from ground level.	U <10 yrs
T39												
Common Hazel <i>Corylus avellana</i>	6	3	175 (Eq)	N	3	1	M	A: 13.9 R: 2.1	Good	C: Good S: Good B: Good	Multi stemmed tree from ground level.	C.1 20+ yrs
T40												
Cultivated Apple <i>Malus domestica</i>	3	2	219 (Eq)	N	3	1.5	M	A: 21.8 R: 2.63	Good	C: Good S: Good B: Good	Orchard tree. Historical pruning works to reduce canopy height and spread. Approximately 10mm diameter regrowth from points of wounding.	C.1 10+ yrs
T41												
Common Walnut <i>Juglans regia</i>	9	1	240	N	5	1.5	EM	A: 26.1 R: 2.88	Good	C: Good S: Good B: Good	No significant features have been observed.	B.1 20+ yrs
T42												
Cultivated Apple <i>Malus domestica</i>	2.5	3	266 (Eq)	N	2	1.5	M	A: 31.9 R: 3.18	Fair	C: Fair S: Good B: Good	Orchard tree in decline. Historical pruning works to reduce canopy height and spread. Approximately 10mm diameter regrowth from points of wounding. Approximately 20% defoliation of canopy. Necrotic leaves.	U <10 yrs
T43												
Cultivated Apple <i>Malus domestica</i>	2.5	3	266 (Eq)	N	2	1.5	M	A: 31.9 R: 3.18	Fair	C: Fair S: Good B: Good	Orchard tree in decline. Historical pruning works to reduce canopy height and spread. Approximately 10mm diameter regrowth from points of wounding. Approximately 20% defoliation of canopy. Necrotic leaves.	U <10 yrs
Age Classifications: N Newly planted EM Early Mature Condition: C Crown Y Young M Mature S Stem SM Semi-mature OM Over Mature B Basal area												
Stems: Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition ERC: Estimated Remaining Contributio												

Appendix 3: Tree Constraints Plan



Tree Categories

Root Protection Area

The **adjusted PWS** is summed to 100%, which will correspond to a total of 100% of the 12m, which was again the same as the 100% growth. The total transverse area of a trunk spanned was also used to help predict the distribution of the roots.

Tree Survey Report

Please refer to Address Correlating, etc. Time Survey Report and Time Submittal for full details on all required forms, schedules, fees, etc. and for a list of questions of 30 days prior to work.

All firms must accept and follow regulations in accordance with all provisions as set out in the City of San Diego 2002 Time and Materials design, dated 6/1/02 and 6/01/02/02/02.

For more information, please contact:

San Diego's Information Center at (619) 371-7640;
or at: 4000 La Jolla Village Drive, San Diego, CA 92161;
or by Fax: (619) 371-7640.



Project: Hill View and Wayside
Eastergate Lane
P020 3SJ

Client: Eastmere Stables

Drawing: Tree Constraints Plan
 Based on: ENC/240524/3403/T And 1077/01

Drawing No:	Arbtech TCP 01
Issue:	

Core:	Scale:	Dynamic	CP
August 2024	1:200	8.4g	

Key:			
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From New	T01	Total Corrections	Errors

[illegible]

Category for groups	Category for 1 week	Category for 12 groups
Colony	Colony	Colony

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