

Pre Development Tree Survey & Assessment

Of

Land at Peterchurch

Prepared By



Ref: TDA/2264/TS&A/RhC/11.16.

November 2016

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Of

Land at Peterchurch

For

Mr. Jason Richards

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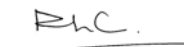
Document Approval

This document has been prepared and checked in
accordance with Tirlun Design Associates' quality control
system

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Drawing no. TDA.2264.01 - Tree Survey Plan (BS5837:2012)

1.0 Supporting Information and Explanatory Keys

1.1 INTRODUCTION

1.11 Generally

Trees are of vital importance to the landscape and are essential for enhancing the rural and urban environment. They provide scenic character, visual amenity and are vital habitats for dependent wildlife populations.

The retention of existing trees not only benefits a site and its surroundings but also raises the overall quality of an area and enhances property value.

Trees which are damaged, or their immediate environment significantly changed may subsequently decline and die resulting in all positive benefits being lost.

1.12 Purpose of Survey

Tirlun Design Associates were appointed by Mr. Jason Richards to undertake a pre-development survey and assessment of existing trees located on and adjacent to their site on land at Peterchurch.

This document is a record of the survey and its purpose is to provide the client with a concise presentation of the position, dimensions, condition and future life expectancy of existing trees on site.

Recommendations are provided on arboricultural works which should be undertaken in the interests of safety, or as part of sound management practice. However, the tree survey conducted and the results presented within this report are specifically designed to meet the BS5837 standard, and are not a substitute for either a full Tree Safety Survey or Management Plan designed to provide a detailed appraisal of the risk and liability associated with responsibility for individual trees or groups of trees.

The survey is illustrated by drawing no. TDA.2264.01 which shows the location and assessed category of surveyed trees.

1.13 The Site

The site comprises a parcel of rough grassland between the River Dore and the B4348. Tree species include Alder, Hazel, Field Maple, Ash and Hawthorn.

1.2 METHODOLOGY

1.21 Generally

The on-site survey of trees was carried out by Rhodri Crandon B.A. (Hons), Dip LA, who is experienced in arboriculture. He was assisted by Andrew Perrigo BSc (Hons), Dip LA. The survey was undertaken during November 2016.

Site data was recorded onto standardised survey forms and subsequently transposed in the office onto fair copies of the relevant forms for inclusion within this document. The location of individual trees and tree groups is based on a digital Ordnance Survey map modified as necessary by the topographical survey. The record drawing is at a scale of 1:500 @ A2, is numbered TDA.2264.01 and is included within Appendix 1.

Trees were located, numbered, identified and their height determined by clinometer measurements. The trunk/stem diameters and crown clearances of trees were measured using a 10m tape. Branch spread was taken from topographical information provided by Invar Mapping Surveys

Age, structural/physical condition, management recommendations and estimated contribution in years were judged from an examination of the tree or tree group in question and each tree was categorised according to standardised criteria i.e. BS5837: 2012.

1.22 Conventions and Assumptions

In the pursuit of this survey, assumptions have been made and conventions followed.

1.23 Data Summary

The collected data has been summarised and plotted on drawing no. TDA.2264.01 at a scale of 1:500 @ A2 (Appendix 1). The drawing identifies the trees by number and category as follows:

Category A	High Quality and Value	Retention Most Desirable
Category B	Moderate Quality and Value	Retention Desirable
Category C	Low Quality and Value	Could Be Retained
Category U	Remove	Unsuitable for retention

The drawings are intended to reduce the need for reference to the text. The user of the survey can clearly identify the merit of each tree from the drawings and, if required, refer to the specific notes in the Tree Survey Schedule.

1.3 KEY

1.31 Survey Classification Key

Tree no.	Numerical reference for tree on tree survey plan.
Species.	Common name with abbreviation of the scientific name (see tree species key).
Height.	In metres.
Stem dia.	<p>For single stem trees, diameter of trunk is measured in millimetres at 1.5 metres above adjacent ground level (on sloping ground to be taken on the upslope side of the tree base)</p> <p>For multi stemmed trees with 5 stems or less each stem is measured in millimetres and measurements included in the survey schedule. For multi stemmed trees with 6 stems or more each stem is measured and a mean average included in the survey schedule.</p>
Branch spread.	Branch spread was taken from topographical information provided by Invar Mapping Surveys
Crown Clearance.	Height in metres of crown clearance above adjacent ground level (to inform on ground clearance, crown stem ratio and shading).
Age.	<p>Assessment of the age of each tree:</p> <p>Y = Young</p> <p>EM = Early Mature</p> <p>M = Mature</p> <p>OM = Over Mature</p> <p>V = Veteran</p>
Physical Condition.	<p>Assesses the physical condition of each tree:</p> <p>G = Good</p> <p>F = Fair</p> <p>P = poor</p> <p>D = Dead</p>
Structural Condition.	<p>Classification of the structural condition of each tree.</p> <p>DB = Dead</p> <p>DW = Characteristic dead wood</p> <p>WS = Weak structure</p> <p>UB = Unbalanced</p> <p>RC = Regrown coppice</p> <p>TD = Trunk Decay</p> <p>CD = Crown Decay</p> <p>BD = Basal Decay</p> <p>PD = Physical Damage</p> <p>RP = Regrown Pollard</p>

Tree Survey Key - Cont'd

V1	=	High Vigour
V2	=	Normal Vigour
V3	=	Low Vigour

Management

Recommendations. Preliminary management recommendations including further investigation of suspected defects that require more detailed assessment and potential for wildlife habitat.

Est. remaining

Contribution. Estimated remaining contribution in years:

<10,
10-20,
20-40
40>

Category.

U or A to C category grading to be recorded on the tree survey plan.
(Refer to Tree Category Description Key).

1.32 Tree Category Description Key

Table 1 Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate)		
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	<ul style="list-style-type: none">Trees that have a 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 declineTrees 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 <p><i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i></p>		
	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 dominant 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)
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 remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for 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
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm	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 benefits	Trees with no material conservation or other cultural value

1.33 Tree Survey Species Key

A ca	Acer campestre	P ca	Populus canadensis
A S	Acer Saccharinum	P co	Pyrus communis
A co	Alnus cordata	P eu	Populus euramericana
A gr	Acer griseum	P h	Platanus hispanica
A hi	Aesculus hippocastanum	P l	Prunus lusitanica
A pl	Acer platanoides	P n	Pinus nigra
A plc	Acer platanoides 'Crimson King'	P pi	Pinus pinea
A ps	Acer pseudoplatanus	P n lt	Populus nigra 'Italica'
B da	Buddleja davidii	P r	Pinus radiata
B pe	Betula pendula	P se	Prunus serrula
B pa	Betula papyrifera	P sp	Prunus spinosa
B s	Buxus sempervirens	P sy	Pinus sylvestris
B uj	Betula utilis jaquemontii	P ta	Populus tacamchacca
C a 'G'	Cedrus atlantica 'Glaucua'	P tr	Populus tremula
C av	Corylus avellana	Q c	Quercus coccinea
C d	Cedrus deodora	Q ce	Quercus cerris
C b	Carpinus betulus	Q il	Quercus ilex
C l	Cotoneaster lacteus	Q pe	Quercus petraea
C la'E'	Cham. Lawsonia 'Elwoodii'	Q ro	Quercus robur
C Le	Cupressocyparis 'Leylandii'	Q ru	Quercus rubra
C ma	Cupressus macrocarpa	R ps	Robinia pseudoacacia
C mo	Crataegus monogyna	R t	Rhus Typhina
C ox	Crataegus oxycantha	S a	Salix alba
C sa	Castanea sativa	S ar	Sorbus aria
E g	Eucalyptus gunnii	S ar L	Sorbus aria 'Lutescens'
F c	Ficus carica	S au	Sorbus aucuparia
F ex	Fraxinus excelsior	S bt	Salix babylonica 'Tortuosa'
F or	Fraxinus ornus	S ca	Salix caprea
F sy	Fagus sylvatica	S ci	Salix cinerea
F sy 'P'	Fagus sylvatica 'Purpurea'	S da	Salix daphnoides
G tr	Gleditsia triacanthos	S fr	Salix fragilis
I aq	Ilex aquifolium	S in	Sorbus intermedia
J re	Juglans regia	S ni	Sambucus nigra
L an	Laburnum anagyroides	S pu	Salix purpurea
Ln	Laurus nobilis	S se	Sequoia sempervirens
L t	Liriodendron tulipifera	S vi	Salix viminalis
M cv	Malus (cultivar)	S vit	Salix vitellina
M gr	Magnolia grandiflora	T ba	Taxus baccata
M gl	Metasequoia glyptostroboides	T b'F'	Taxus baccata 'Fastigiata'
M sy	Malus sylvestris	T co	Tilia cordata
P s A	Prunus subhirtella 'Autumnalis'	T euch	Tilia euchlora
P ab	Picea abies	T eur	Tilia europaea
P av	Prunus avium	U gl	Ulmus glabra

2.0 Collected Data

2.1 TREE SURVEY SCHEDULE

Tree Survey Schedule to be read in conjunction with Tree Survey Key, Tree Category Description Key, Tree Species Key and drawing no. TDA.2264.01.

Tirlun Design Associates Ltd

Tree Survey Schedule (BS5837:2012)

Site: Land at Peterchurch

Aboricultural Consultants/Surveyors: RhC / AMP

Date of Survey: 29/11/16

Sheet Number: 1 of 3

Tree no.	Species	Height (m)	Stem dia.(mm)	Branch spread (m)	Crown clearance (m)	Age	Physical condition	Structural condition	Management recommendations	Est.remaining contribution (years)	Category
1	Salix Spp.	12	400,400 MSx2	N 4.5 E 5 S 4 W 5	0.5	OM	F/P	TD,V2	Obscured by Ivy. Remove Ivy & reassess	40+	C
G1	Cav	9 (Av)	100 MSx10	N 4 E 4 S 4 W 4	1	M	F	DW,TD, RC,V2	Consider coppicing & infilling gaps to reinstate hedgerow	40+	B
2	Ac	13	250,250, 250,300 MSx4	N 3 E 4 S 4 W 4.5	3	M	F	WS,V2	Remove Ivy	40+	B
3	Ac	11	350,350, 500 MSx3	N 3.5 E 4 S 5 W 3	2.5	M	F/P	DW,WS, V2	Remove deadwood & Ivy	40+	C
4	Cav	9	100 MSx10	N 5 E 5 S 3.5 W 4.5	2	M/ OM	F/P	DW,PD, RC,V2	Poor surgery in past. Consider coppicing	40+	C
5	Agl	14.5	600 Approx.	N 7 E 7 S 7 W 7	5	M/ OM	P	DW,UB, TD,V2	Remove deadwood & Ivy. Monitor lean	20-40	C
6	Sni	9	300	N 5 E 5 S 5 W 5	0.5	EM/ M	P	DB/DW, TD,UB,V3	Remove	<10	U

Tirlun Design Associates Ltd

Tree Survey Schedule (BS5837:2012)

Site: Land at Peterchurch

Aboricultural Consultants/Surveyors: RhC / AMP

Date of Survey: 29/11/16

Sheet Number: 2 of 3

Tree no.	Species	Height (m)	Stem dia.(mm)	Branch spread (m)	Crown clearance (m)	Age	Physical condition	Structural condition	Management recommendations	Est.remaining contribution (years)	Category
7	Agl	14	400,400, 400,400 MSx4	N 7 E 7 S 7 W 7	3	M	F	WS,V2	Monitor stability on bank. Remove Ivy	40+	A
8	Agl	14	250,600 MSx2	N 6.5 E 6.5 S 6.5 W 6.5	2.5	M	P	TD,V2	Monitor stability on bank. Remove Ivy	20-40	B
9	Agl	12	750 Approx.	N 7 E 7 S 7 W 7	1.5	M	P	Slight UB, TD,V2	Monitor stability on bank. Remove Ivy	20-40	B
10	Agl	18	500	N 7 E 7 S 7 W 7	5	M	F/G	UB,V2	Monitor stability on bank. Remove Ivy	40+	A
11	Agl	16.5	350,350 MSx2	N 6 E 6 S 6 W 6	2	M	F/P	UB,V2	Obscured by Ivy. Remove Ivy & reassess. Monitor stability on bank	40+	B
12	Agl	16.5	550 Approx.	N 6.5 E 6.5 S 6.5 W 6.5	2	M	F/P	DW,V2	Obscured by Ivy. Remove Ivy & reassess. Monitor stability on bank	40+	B
13	Agl	17	300,500, 300,300 MSx4	N 7 E 7 S 7 W 7	2	M	F/P	WS,V2	Obscured by Ivy. Remove Ivy & reassess. Monitor stability on bank	40+	A

Tirlun Design Associates Ltd

Tree Survey Schedule (BS5837:2012)

Site: Land at Peterchurch

Aboricultural Consultants/Surveyors: RhC / AMP

Date of Survey: 29/11/16

Sheet Number: 3 of 3

Tree no.	Species	Height (m)	Stem dia.(mm)	Branch spread (m)	Crown clearance (m)	Age	Physical condition	Structural condition	Management recommendations	Est.remaining contribution (years)	Category
14	Agl	18	500,500, 550 MSx3	N 6 E 6 S 6 W 6	2	M	F/G	WS,V2	Obscured by Ivy. Remove Ivy & reassess. Monitor stability on bank	40+	A
15	Agl	15	500	N 7.25 E 7.25 S 7.25 W 7.25	2	M	F	UB,V2	Obscured by Ivy. Remove Ivy & reassess. Monitor stability on bank	40+	B
16	Agl	14	250 MSx8	N 7.5 E 7.5 S 7.5 W 7.5	2.5	M	F/G	V2	Remove Ivy. Monitor stability on bank	40+	B
17	Fex	10.5	350	N 4 E 4 S 4 W 4	5	EM	G	V2	None	40+	B
18	Cmo	7	150,250 MSx2	N 3.5 E 3.5 S 3.5 W 3.5	1.5	M	F	V2	None	20-40	C
19	Ac	12	350,350 MSx3	N 4 E 4 S 4 W 4	4	EM/ M	F	WS,V3	None	40+	B

3.0 Conclusion

3.1 TREE SURVEY SUMMARY

During November 2016 a total of 19 no. individual trees and 1 no. tree groups were surveyed and assessed at the Peterchurch site.

Following survey and assessment in accordance with the British Standard for Trees in Relation to Design, Demolition and Construction (BS 5837 : 2012), trees were categorised as follows :-

Category A	High Quality and Value	Retention Most Desirable
Category B	Moderate Quality and Value	Retention Desirable
Category C	Low Quality and Value	Could Be Retained
Category U	Remove	Unsuitable for Retention

Of the individual trees, 4 no. were assessed as Category A (High Quality and Value), 9 no. were assessed as Category B (Moderate Quality and Value), 5 no. were assessed as Category C (Low Quality and Value) and 1 no. was assessed as Category U (Remove)

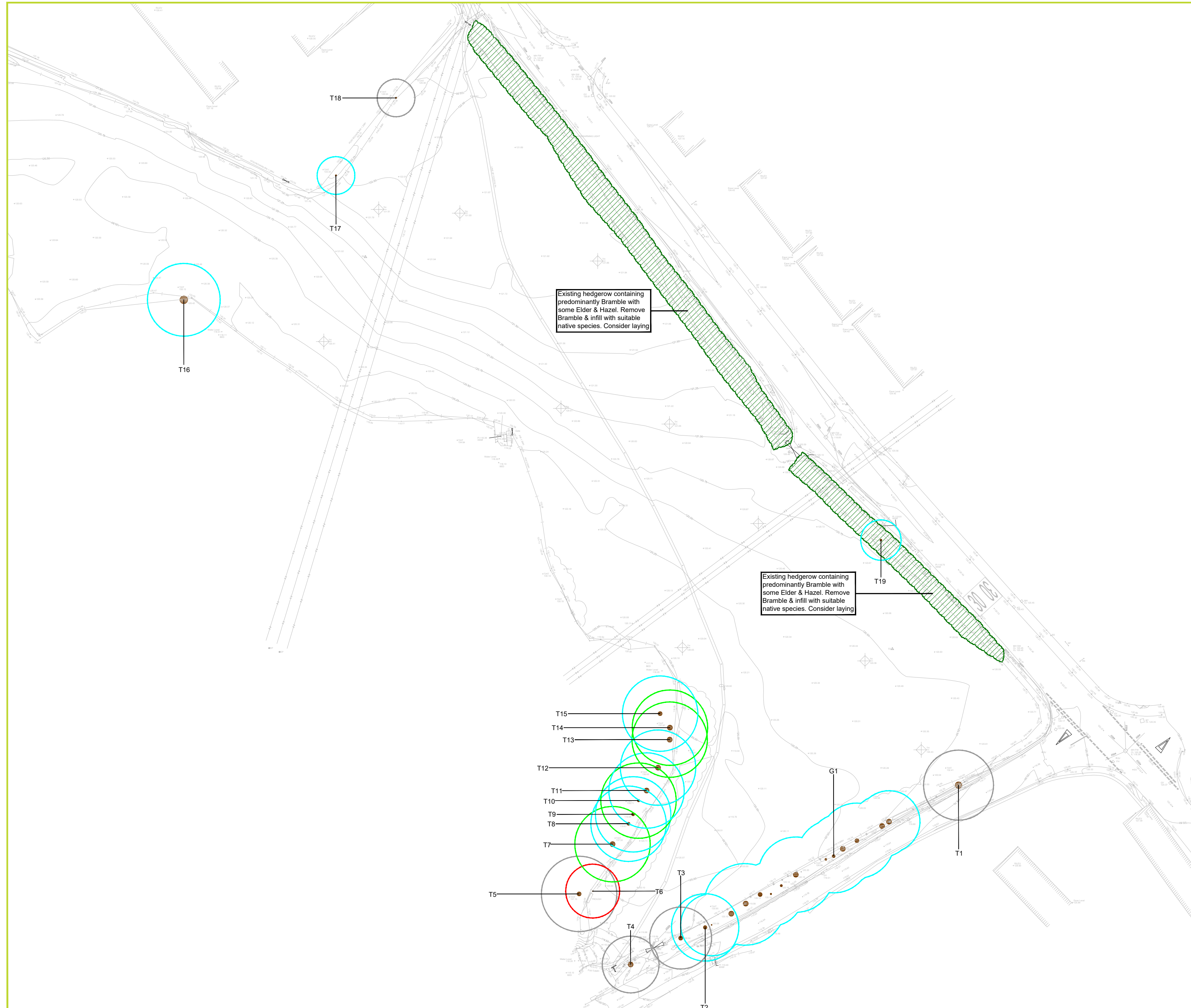
Of the tree groups, G1 was assessed as Category B (Moderate Quality and Value).

Of particular note are T7, T10, T13 and T14. These large mature Alders follow the bank of the River Dore, they are in good condition, are visually prominent and make a significant contribution to the site's arboricultural value.

All Ash trees are to be monitored for presence of Chalara fraxinea (Ash Dieback).

End of report: November 2016 (Valid for 12 months from survey date)


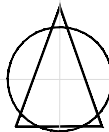
4.0 Appendix 1



KEY :
Assessment of trees in accordance with BS 5837: 2012

- A. High Quality and Value
- B. Moderate Quality and Value
- C. Low Quality and Value
- U. Unsuitable / Remove

NOTE :
Plan indicates average spread of tree crowns. (Refer to 'Pre Development Tree Survey & Assessment', document ref: TDA/2264/TS&A/RhC/11.16, for accurate dimensions.)
The exact location of each tree is to be verified on site.
See 'Pre-Development Tree Survey & Assessment', document ref: TDA/2264/TS&A/RhC/11.16, for identification of tree species, height and condition/characteristics.
The original of this drawing was produced in colour. A monochrome copy should not be relied upon.

REV	NOTES	BY	DATE
<div>TDA CANNA STUDIO LLANGAN VALE OF GLAMORGAN CF35 5DR TEL: 01446 771250</div>		<div></div>	
CLIENT			
MR. JASON RICHARDS			
DRAWING NUMBER	SCALE		
TDA.2264.01	1:500 @ A2		
DRAWN	DATE		
AMP/RhC	NOV 2016		
PROJECT			
PETERCHURCH			
DRAWING TITLE			
TREE SURVEY DRAWING (BS5837:2012)			