Tree Survey

At

Windmill Lane
Cowbridge

Inspected by:-
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Brief

I have been instructed by Mr Dafydd Andrews of Redrow Homes to carry out a survey on trees at Windmill Lane, Cowbridge.

Scope of Report

This Tree Survey has been undertaken within the recommendations of British Standards 5837:2012 and current good arboricultural practice.

The survey entailed a visual inspection from ground level of all trees.

Each tree has been numbered and, where instructed, have been tagged using small durable metal or plastic tags.

Due to variations of existing ground levels through the site, height dimensions are estimated and are given in metres.

Trunk/stem diameters are measured at 1.5 metres above ground level, or immediately above the root flare for multi-stemmed trees.

Estimated branch spread is taken in metres from the centre of the trunk, at the four cardinal points of a compass, to achieve an accurate representation of crown shape.

An assessment of a tree's age classification is made in terms of its maturity within the site's landscape.

An assessment of a tree's physiological condition is made as good, fair, poor, dead.

Data on the structural condition of the tree has been entered, e.g., collapsing, leaning and the presence of any decay or physical defect has been noted.

Preliminary management recommendations include further investigation of suspected defects that require more detailed assessment or potential for wildlife habitat.

An assessment of a tree's future life expectancy is made as <10, 10-20, 20-40 or >40 etc.

Table 1 – Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate)		
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 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 U category trees (i.e. 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 NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7		
	1 Mainly Arboricultural values	2 Mainly landscape values	3 Mainly cultural values, including conservation
Category A Those 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 essential components of groups, or of 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 Those 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 benefits
Category C Those of low quality with an estimated remaining life 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 benefits	Trees with no material conservation or other cultural value

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
T1	Laburnum (Laburnum anagyroides)	4	Multi	0.2	1	1	1	1	1	Middle aged	Fair to poor	Tree of variable form with potentially weak fork at 40cm above ground level	Monitor strength of lower fork	10-20	C
G2	Group of Privet (Ligustrum), Lonicera (Lonicera nitida) and Elder (Sambucus nigra)	2	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair to poor	Ornamental boundary hedge with some die-back in crowns	Monitor for health	10-20	C
G3	Group of Sycamore (Acer pseudo-platanus), Hawthorn (Crataegus monogyna) and Blackthorn (Prunus spinosa)	2	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Scrubby specimens forming gappy boundary hedge	Trim annual growth from top and sides	>40	C

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
T4	Ash (Fraxinus excelsior)	7	Multi	0.15	2	2	2	2	1	Young	Fair	Twin stemmed self-sown specimen of variable form that is at risk of developing Ash Die-back disease	Monitor for health	10-20	C
T5	Ash (Fraxinus excelsior)	12	Single	0.4 (est)	7	6	7	7	2	Middle aged	Fair to poor	Tree surrounded by dense vegetation with main stem and lower crown heavily colonised by ivy thus preventing full inspection and accurate measurement. A tree of variable form and low vigour that is vulnerable to developing Ash Die-back disease.	Monitor for health	10-20	C
G6	Group of Holly (Ilex aquifolium), Hawthorn (Crataegus monogyna) and Blackthorn (Prunus spinosa)	1	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Scrubby specimens forming very gappy hedgerow	No action required at this time	10-20	C

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
G7	Group of Hawthorn (Crataegus monogyna), Blackthorn (Prunus spinosa), Hazel (Corylus avellana) and Ash (Fraxinus excelsior)	3	Multi	0.1	1	1	1	1	0	Young	Fair	Scrubby specimens forming small thicket	No action required at this time	10-20	C
G8	Group of Hazel (Corylus avellana), Hawthorn (Crataegus monogyna), Blackthorn (Prunus spinosa) and Elder (Sambucus nigra)	5	Multi	0.1	1	1	1	1	0	Middle aged	Fair	Scrubby specimens forming overgrown hedgerow	No action required at this time	20-40	C

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
T9	Ash (Fraxinus excelsior)	8	Multi	0.3	3	3	1	1	1	Middle aged	Poor	Hedgerow tree that exhibits symptoms of Ash Die-back disease	Remove	<10	U
T10	Blackthorn (Prunus spinosa)	4	Multi	0.25	1	2	3	1	2	Middle aged	Fair to poor	Hedgerow tree of variable form leaning to the south	Monitor for stability	10-20	C
G11	Group of Blackthorn (Prunus spinosa), Hawthorn (Crataegus monogyna), Elder (Sambucus nigra) and Hazel (Corylus avellana)	2	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Scrubby specimens forming gappy boundary hedgerow that has been tightly flailed	No action required at this time	>40	C
G12	Group of Blackthorn (Prunus spinosa) and Hawthorn (Crataegus monogyna)	6	Multi	0.15	1	1	1	1	0	Middle aged	Fair	Scrubby specimens forming overgrown gappy hedgerow	No action required at this time	20-40	C

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
G13	Group of Blackthorn (Prunus spinosa), Hawthorn (Crataegus monogyna), Elder (Sambucus nigra), Hazel (Corylus avellana) and Leyland Cypress (Cupresso-cyparis leylandii)	2	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Scrubby specimens forming gappy boundary hedgerow that has been tightly flailed	No action required at this time	>40	C
G14	Group of Ash (Fraxinus excelsior) and Sycamore (Acer pseudo-platanus)	2	Single	0.1	1	1	1	1	1	Young	Fair to poor	Self-sown specimens that have been topped at 1m to form sporadic hedgerow	No action required at this time	10-20	C

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
G15	Group of Elder (Sambucus nigra), Blackthorn (Prunus spinosa) and Hawthorn (Crataegus monogyna)	Up to 9	Single and multi	0.15 (avg)	1	1	2	1	1	Middle aged	Fair	Sporadic specimens forming linear boundary feature	No action required at this time	10-20	C
T16	Oak (Quercus robur)	14	Single	0.35	5	6	5	6	3	Middle aged	Fair	Off-site tree located within residential garden thus preventing full inspection. Tree of reasonable form that appears to have received some crown reduction in the past.	No action required at this time	20-40	B

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					N	E	S	W							
G17	Group of Blackthorn (Prunus spinosa), Elder (Sambucus nigra), Hawthorn (Crataegus monogyna) and Hazel (Corylus avellana)	Up to 5	Single and multi	0.1	1	1	1	1	1	Middle aged	Fair	Scrubby specimens forming gappy hedgerow	No action required at this time	20-40	C
G18	Group of Ash (Fraxinus excelsior)	17	Multi	0.5	9	6	9	8	2	Mature	Poor	Overgrown hedge stubs with massive basal decay that is likely to lead to significant structural failure in the foreseeable future	Remove	<10	U

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
G19	Group of Hazel (Corylus avellana), Privet (Ligustrum), Dogwood (Cornus sanquinea) and Blackthorn (Prunus spinosa)	2	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Roadside hedgerow that has been tightly flailed	No action required at this time	>40	C
T20	Sycamore (Acer pseudo-platanus)	19	Single	0.42	9	8	9	8	5	Mature	Good	Notable hedgerow tree of good form	No action required at this time	>40	A
T21	Sycamore (Acer pseudo-platanus)	10	Single	0.18	1	2	2	2	1	Young	Fair	Scrubby roadside tree of variable form	No action required at this time	10-20	C
T22	Sycamore (Acer pseudo-platanus)	20	Multi	0.8	7	9	7	8	5	Middle aged	Fair	Triple stemmed roadside tree of variable form that has been reduced in the past	Monitor for safety	20-40	C
T23	Sycamore (Acer pseudo-platanus)	18	Multi	0.65	6	6	4	6	2	Middle aged	Fair	Multi stemmed roadside tree of reasonable form.	Monitor basal forks	10-20	C

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					N	E	S	W							
T24	Ash (Fraxinus excelsior)	18	Multi	0.6	6	7	8	8	5	Middle aged	Fair to poor	Multi stemmed roadside tree of variable form with evidence of potential thinning within crown	Monitor for health	10-20	C
G25	Group of Sycamore (Acer pseudo-platanus)	9	Multi	0.25	1	2	2	3	2	Young	Fair to poor	Multi stemmed coppice re-growth with evidence of some squirrel damage within crowns	Monitor for safety	10-20	C
G26	Group of Hazel (Corylus avellana) and Blackthorn (Prunus spinosa)	5	Multi	0.15	1	1	1	1	1	Middle aged	Fair	Scrubby specimens forming gappy roadside hedge	No action required at this time	20-40	C

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					N	E	S	W							
G27	Group of Hawthorn (Crataegus monogyna), Hazel (Corylus avellana), Dogwood (Cornus sanquinea), Ash (Fraxinus excelsior) and Blackthorn (Prunus spinosa)	2	Single and multi	0.1	0.5	0.5	0.5	0.5	0	Young	Fair	Scrubby specimens forming gappy hedgerow either side of entrance track to field	No action required at this time	20-40	C
T28	Ash (Fraxinus excelsior)	20	Multi	0.65	8	8	6	6	3	Middle aged	Poor	Boundary tree of variable form with evidence of Ash Die-back infection	Remove	<10	U
G29	Group of 4 Sycamore (Acer pseudo-platanus)	21	Single	0.55 (avg)	8	8	9	8	3	Mature	Fair	Trees of good form. Main stems sited within dense undergrowth thus preventing full inspection of base.	No action required at this time	20-40	B

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					N	E	S	W							
T30	Ash (Fraxinus excelsior)	21	Multi	0.8	10	9	9	8	3	Mature	Fair	Twin stemmed hedgerow tree of reasonable form. This specimen is at risk of developing Ash Die-back disease.	Monitor for health	10-20	C
G31	Group of Ash (Fraxinus excelsior)	21	Multi	0.65	9	8	11	9	3	Mature	Poor	Hedgerow trees of variable form with evidence of Ash-Die back and Ash Canker disease. These specimens are unsuitable for long-term retention.	Remove	<10	U
G32	Group of Ash (Fraxinus excelsior)	19	Single and multi	0.35 (avg)	5	6	10	6	3	Middle aged	Fair to poor	Woodland edge trees of generally variable form with crowns more heavily developed on southern side. Some stems lean excessively to the south. Some specimens are infected with Ash Canker disease.	Remove diseased and excessively leaning trees. Monitor remaining specimens for development of Ash Die-back disease.	10-20	C
T33	Sycamore (Acer pseudo-platanus)	19	Single	0.44	2	4	9	5	3	Middle aged	Fair	Woodland edge tree with crown more heavily developed on southern side. Lowest limb exhibits cavity beneath branch union.	Shorten lowest branch extending to the south by 2-3m pruning back to a suitable growing point. Monitor for safety.	20-40	B

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					N	E	S	W							
T34	Elm (Ulmus spp)	27	Single	0.81	14	9	9	8	4	Mature	Poor	Notable hedgerow tree that has developed Dutch Elm disease and is now in a deteriorating condition	Remove	<10	U
T35	Sycamore (Acer pseudo-platanus)	16	Single	0.46	4	7	9	8	3	Middle aged	Fair to poor	Tree of variable form with extensive squirrel damage throughout crown	Undertake 3-4m overall crown reduction. Monitor for safety.	10-20	C
T36	Sycamore (Acer pseudo-platanus)	11	Single	0.39	0	2	9	5	3	Middle aged	Fair to poor	Heavily suppressed specimen leaning to the south. This tree forms a uniform crown with T35.	Monitor for stability	10-20	C
G37	Group of Blackthorn (Prunus spinosa), Elder (Sambucus nigra), Hawthorn (Crataegus monogyna) and Hazel (Corylus avellana)	Up to 5	Single and multi	0.1	1	1	1	1	1	Middle aged	Fair	Scrubby specimens forming gappy hedgerow	No action required at this time	20-40	C

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
T38	Hawthorn (Crataegus monogyna)	6	Multi	0.25	1	2	2	2	1	Middle aged	Fair	Hedgerow specimen of variable form	No action required at this time	20-40	C
G39	Group of Hawthorn (Crataegus monogyna), Blackthorn (Prunus spinosa), Hazel (Corylus avellana) and Elder (Sambucus nigra)	2	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Boundary hedgerow that has been tightly flailed on eastern side	No action required at this time	>40	C
T40	Sycamore (Acer pseudo-platanus)	26	Single	0.95 (est)	11	12	10	10	3	Mature	Fair	Off-site tree surrounded by dense vegetation thus preventing full inspection and accurate measurement. Notable hedgerow tree of good form. Some deadwood and hung-up branches within crown.	Prune to remove deadwood with diameter >50mm extending over site. Remove hung-up branches. Monitor for safety.	>40	A

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					N	E	S	W							
G41	Group of Hawthorn (Crataegus monogyna), Hazel (Corylus avellana) and Ash (Fraxinus excelsior)	9	Multi	0.2	5	2	1	1	1	Middle aged	Poor	Trees of poor form that are partially collapsed adjacent to pond area	Remove	<10	U
T42	Ash (Fraxinus excelsior)	15	Multi	0.4	3	5	6	2	2	Middle aged	Poor	Hedgerow tree with symptoms of Ash Die-back disease	Remove	<10	U
T43	Ash (Fraxinus excelsior)	22	Single	0.64	10	10	9	12	3	Mature	Poor	Roadside tree of variable form exhibiting severe symptoms of Ash Die-back disease. This specimen represents an immediate hazard in relation to the adjacent highway and should be removed as soon as possible.	Remove	<10	U
G44	Group of Ash (Fraxinus excelsior)	19	Single and multi	0.45 (avg)	8	7	9	6	3	Middle aged	Poor	Roadside trees exhibiting symptoms of Ash Die-back disease	Remove	<10	U

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					N	E	S	W							
G45	Group of Hazel (Corylus avellana), Hawthorn (Crataegus monogyna) and Blackthorn (Prunus spinosa)	3	Multi	0.1	1	1	1	1	0	Middle aged	Fair	Scrubby specimens forming roadside hedgerow	No action required at this time	20-40	C
G46	Group of Hawthorn (Crataegus monogyna), Blackthorn (Prunus spinosa), Hazel (Corylus avellana) and Elder (Sambucus nigra)	2	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Boundary hedgerow that has been tightly flailed on eastern side	No action required at this time	>40	C

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					N	E	S	W							
T47	Ash (Fraxinus excelsior)	27	Single	1.06	12	15	12	13	2	Mature	Fair to poor	Notable hedgerow tree of reasonable form with evidence of thinning and die-back within crown. This specimen appears to be in a deteriorating condition.	Undertake 4-5m overall crown reduction. Monitor for health and safety.	10-20	C
T48	Ash (Fraxinus excelsior)	17	Single	0.38	7	7	7	7	3	Middle aged	Fair	Tree of variable form that is vulnerable to developing Ash Die-back disease	Monitor for health	10-20	C
T49	Ash (Fraxinus excelsior)	19	Single	0.47	8	7	9	9	3	Mature	Fair	Tree of variable form that is vulnerable to developing Ash Die-back disease	Monitor for health	10-20	C
G50	Group of Hawthorn (Crataegus monogyna) and Hazel (Corylus avellana)	8	Multi	0.25	3	3	3	3	1	Middle aged	Fair to poor	Scrubby specimens surrounded by dense vegetation	No action required at this time	10-20	C
T51	DEAD												Remove		U

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
G52	Group of Hawthorn (Crataegus monogyna), Blackthorn (Prunus spinosa), Hazel (Corylus avellana) and Elder (Sambucus nigra)	2	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Boundary hedgerow that has been tightly flailed on eastern side	No action required at this time	>40	C
G53	Group of Blackthorn (Prunus spinosa), Hawthorn (Crataegus monogyna), Hazel (Corylus avellana) and Elder (Sambucus nigra)	1.5	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Boundary hedgerow that has been tightly flailed	No action required at this time	>40	C

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
G54	Group of Blackthorn (Prunus spinosa), Hawthorn (Crataegus monogyna), Hazel (Corylus avellana) and Elder (Sambucus nigra)	1.5	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Boundary hedgerow that has been tightly flailed	No action required at this time	>40	C
T55	Ash (Fraxinus excelsior)	15	Multi	0.45	7	5	5	3	3	Middle aged	Fair to poor	Triple stemmed specimen surrounded by dense vegetation thus preventing full inspection. This specimen is vulnerable to developing Ash Die-back disease.	Monitor for health	10-20	C
G56	Group of Ash (Fraxinus excelsior)	20	Single and multi	0.5 (avg)	9	8	8	8	4	Mature	Poor	Trees of variable form that exhibit symptoms of Ash-die back disease	Remove	<10	U

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
G57	Group of Hawthorn (Crataegus monogyna) and Ash (Fraxinus excelsior)	5	Multi	0.1	1	1	1	1	0	Middle aged	Fair to poor	Scrubby specimens forming overgrown hedgerow	No action required at this time	20-40	C
G58	Group of Blackthorn (Prunus spinosa), Hawthorn (Crataegus monogyna), Hazel (Corylus avellana) and Elder (Sambucus nigra)	1.5	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Boundary hedgerow that has been tightly flailed	No action required at this time	>40	C

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
G59	Group of Blackthorn (Prunus spinosa), Hawthorn (Crataegus monogyna), Hazel (Corylus avellana) and Elder (Sambucus nigra)	1.5	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Boundary hedgerow that has been tightly flailed	No action required at this time	>40	C
G60	Group of Blackthorn (Prunus spinosa), Hawthorn (Crataegus monogyna), Hazel (Corylus avellana) and Elder (Sambucus nigra)	1.5	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Boundary hedgerow that has been tightly flailed	No action required at this time	>40	C

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
G61	Group of Blackthorn (Prunus spinosa), Hawthorn (Crataegus monogyna), Hazel (Corylus avellana) and Elder (Sambucus nigra)	1.5	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Boundary hedgerow that has been tightly flailed	No action required at this time	>40	C
T62	Ash (Fraxinus excelsior)	27	Single	1.3	15	13	10	15	2	Mature	Poor	Notable hedgerow tree of variable form that has suffered massive structural failure in the past that has led to commencement of internal decay within main stem and major limbs. This specimen exhibits severe symptoms of Ash Die-back disease.	Remove	<10	U

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
G63	Group of Blackthorn (Prunus spinosa), Hawthorn (Crataegus monogyna), Hazel (Corylus avellana) and Elder (Sambucus nigra)	1.5	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Boundary hedgerow that has been tightly flailed	No action required at this time	>40	C
G64	Group of Crack Willow (Salix fragilis)	10	Single and multi	0.35	4	4	4	4	1	Middle aged	Fair to poor	Scrubby specimens established in water-logged area	No action required at this time	10-20	C
T65	Hybrid Black Poplar (Populus canadensis)	30	Single	1.35	9	20	15	15	8	Mature	Fair to poor	Notable riverside specimen of variable form leaning to the east. Extensive deadwood throughout crown.	Undertake 6-7m overall crown reduction. Prune to remove major deadwood. Monitor for stability.	10-20	C

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
T66	Oak (Quercus robur)	19	Multi	>1.5	13	15	10	12	3	Mature	Fair	Notable hedgerow tree of good form. Some significant deadwood within crown which is normal for this species and age. Evidence of fungal fruiting body on eastern side of main stem (Ganoderma) which indicates presence of some internal decay.	Undertake 6m overall crown reduction. Prune to remove major deadwood. Monitor spread of internal decay.	20-40	B
G67	Group of Blackthorn (Prunus spinosa), Hawthorn (Crataegus monogyna), Hazel (Corylus avellana) and Elder (Sambucus nigra)	1.5	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Boundary hedgerow that has been tightly flailed	No action required at this time	>40	C

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
G68	Group of Blackthorn (Prunus spinosa), Hawthorn (Crataegus monogyna), Hazel (Corylus avellana) and Elder (Sambucus nigra)	1.5	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Boundary hedgerow that has been tightly flailed	No action required at this time	>40	C
G69	Group of Elm (Ulmus spp) and Hawthorn (Crataegus monogyna)	Up to 10	Single and multi	0.2 (avg)	2	2	2	2	1	Middle aged	Fair	Gappy hedgerow dominated by Elms that are vulnerable to developing Dutch Elm disease	Monitor for health	10-20	C

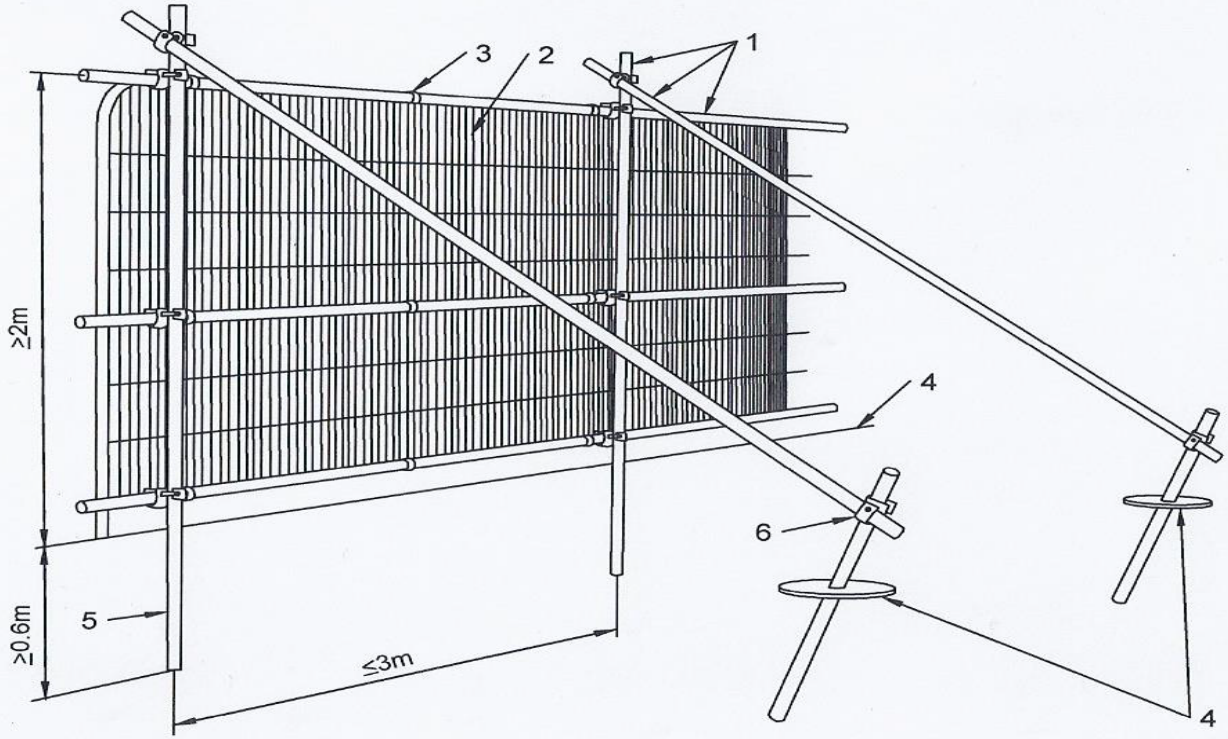
Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
G70	Group of Blackthorn (Prunus spinosa), Hawthorn (Crataegus monogyna), Hazel (Corylus avellana) and Elder (Sambucus nigra)	1.5	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Boundary hedgerow that has been tightly flailed	No action required at this time	>40	C
T71	Oak (Quercus robur)	17	Single	0.45 (est)	9	9	6	6	3	Mature	Fair	Off-site tree located within residential garden thus preventing full inspection and accurate measurement. Tree of variable form lacking apical habit.	No action required at this time	20-40	B
G72	Group of Privet (Ligustrum)	2	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair to poor	Off-site hedgerow thus preventing full inspection. Some evidence of die-back within hedge.	Monitor for health	10-20	C

Tree No.	Species	Height(m)	Single/Multi Stemmed	Stem Diameter(m)	Branch Spread(m)				Height of Crown(m)	Age	Physiological Condition	Structural Condition	Prel. Man. Recommendations	Est. Remaining Contribution	Category
					N	E	S	W							
G73	Group of Lonicera (Lonicera nitida)	1.5	Multi	0.1	0.5	0.5	0.5	0.5	0	Middle aged	Fair	Tightly clipped domestic boundary hedgerow	No action required at this time	20-40	C

Recommendations for Tree Protection during Development

Due to the high risk to established trees we would recommend the installation of protective fencing prior to commencement of **any** works on site in accordance with BS 5837:2012 "Trees in relation to Construction". Trees should be protected using scaffold frame supporting weld mesh panel fencing sited on the edge of the Root Protection Area as defined in BS5837:2012. These fenced areas should not be used for the storage of any plant machinery or materials and personnel should be excluded at all times; these fences should remain in situ until after final landscaping has been carried out, removed by hand with great care to prevent compaction or root damage to established trees. The services of a suitably qualified arborist should be sought **prior** to the commencement of each stage.

Figure 2 Default specification for protective barrier



Key
1 Standard scaffold poles
2 Heavy gauge 2m tall galvanized tube and welded mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6m)
6 Standard scaffold clamps