



LIZARD

Landscape Design and Ecology

LAND AT LAKE LANE, BARNHAM, WEST SUSSEX

EXISTING TREE SCHEDULE AND SCHEDULE OF TREE WORKS

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Signed:

Position: Principal

Date: 13th January 2017

Rev: 03

January 2017 – Planning Issue

LLD898/GS/13.01.17

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Ref.no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
T 01	<i>Tilia x europaea</i> (Lime) (11.7m Radius of nominal circle; 430m² RPA) (Subject to Tree Preservation Order No. TPO/BN/1/13 (Group 2) issued by Arun District Council)	955mm	20.00 m Clear Stem Height N/A	N 7.0 m E 5.0 m S 6.0 m W 6.0 m	Semi-Mature 20 yrs +	Located to the northern boundary of the site. A ditch is located 1.0m to the north, surface roots are visible to the ditch sides due to erosion. Ivy covers the ground around the base of the tree. The basal shoots have matured to form a dense lower canopy and making the base of the tree congested. A wire fence is growing into the base of the main stem at 0.8m height. There are no signs of damage from root to main stem. Minor deadwood insignificant with major deadwood evident in the lower primary scaffolds. Condition - Fair/Good. Recommendations: Remove all major deadwood from the crown. Re-inspect tree in winter when the upper canopy is visible. Implement ground protection measures.	B	Retain
T 02	<i>Fraxinus excelsior</i> (Ash) (6.60m Radius of nominal circle; 137m² RPA) (Subject to Tree Preservation Order No. TPO/BN/1/13 (Group 2) issued by Arun District Council)	541mm	16.00 m Clear Stem Height 3.00 m	N 5.0 m E 6.0 m S 5.0 m W 4.0 m	Mature 20 yrs +	Located adjacent to T 01 and 1.0m south of ditch on northern boundary. Nettles and bramble cover the ground around the base of the tree. Ivy clads the main stem and lower primary scaffolds to 10.0m height. The tree has a straight main stem dividing 2.5 m height into 4 no. co-dominant leaders producing a decurrent form. A fence is nailed to the base. Twiggy deadwood throughout crown. Condition – Fair	B	Retain

Ref.no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
TG 03 A - C	Tree Group a) – <i>Quercus robur</i> (Oak) (2.10m Radius of nominal circle; 14m² RPA) b) – <i>Quercus robur</i> (Oak) (2.10m Radius of nominal circle; 14m² RPA) c) – <i>Acer pseudoplatanus</i> (Sycamore) (2.10m Radius of nominal circle; 14m² RPA)	a) 159mm b) 158mm c) 112mm	a) - 4.00m b) - 4.00m c) - 3.50m Clear Stem Height N/A	A/B/C N 3/2/1.5 m E 3/2/1.5 m S 3/2/1.5 m W 3/2/1.5 m	Young 10 yrs +	A self-seeded tree group within Bramble. Possible future specimens. The trees all exhibit decurrent form with spreading limbs. Recommendations: Remove tree group to accommodate development proposals.	C	Remove
T 04	<i>Quercus robur</i> (Oak) (4.20m Radius of nominal circle; 55m² RPA) (Subject to Tree Preservation Order No. TPO/BN/1/13 (Group 1) issued by Arun District Council)	327mm (CSD)	11.00m Clear Stem Height 1.50m	N 4.00 m E 4.00 m S 4.00 m W 4.00 m	Early-Mature 10 yrs +	Located within Bramble, base of tree is in good condition with no signs of mechanical damage. 4 no. co-dominant leaders arise at 30cm height with compression joints between each stem. The tree has horizontal and arching secondary scaffolds. Twiggy deadwood throughout canopy. Condition – Fair. Recommendations: Remove tree to accommodate development proposals.	C	Remove
T 05	<i>Quercus robur</i> (Oak) (3.00m Radius of nominal circle; 41m² RPA) (Subject to Tree Preservation Order No. TPO/BN/1/13 (Group 3) issued by Arun District Council)	238mm	8.00 m Clear Stem Height 2.5m	N 3.50 m E 3.00 m S 2.50 m W 3.00 m	Early-Mature 10 yrs+	Located within Bramble and adjacent to the northern boundary ditch. The main stem divides at 1.0m height and there are 4 main primary scaffold branches supporting the outer domed canopy. Condition – fair. Recommendations: Reduce the south-eastern aspect of the canopy of T 05 by 1.4 m to accommodate construction of proposed shed in accordance with 'BS3998: 2010 - Tree Work – Recommendations'.	C	Retain

Ref.no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
TG 06 A-C	<i>Quercus robur</i> (Oak) a) - (3.30m Radius of nominal circle; 34m² RPA) b) - (3.60m Radius of nominal circle; 41m² RPA) c) - (3.90m Radius of nominal circle; 48m² RPA) (Subject to Tree Preservation Order No. TPO/BN/1/13 (Group 3) issued by Arun District Council)	a) 270mm b) 286mm c) 302mm	8.00m (Average) Clear Stem Height 2.0m (Average)	A/B/C N 3/4/3 m E 2/5/5 m S 3/3/3 m W 5/4/5 m	Early-Mature 10 yrs +	3 no. oaks situated in a group located to the northern boundary. Trees decurrent with scaffolds between 2 - 3.0m height. There is no significant deadwood. Bramble growing into the lower scaffolds of tree TG 06 b). Evidence of historic pruning to trees A/B. All trees have low spreading canopies. Trees are in fair condition. Recommendations: Remove tree (c) to accommodate development proposals.	C	Retain (a)/(b) Remove (c)
T 07	<i>Crataegus monogyna</i> (Hawthorn) (1.80m Radius of nominal circle; 10m² RPA)	143mm	4.00m Clear Stem Height N/A	N 2.00 m E 2.00 m S 2.00 m W 2.00 m	Early-Mature 10 yrs +	Located within thick Bramble, multi-stemmed Hawthorn with a domed form. Evidence that tree is self seeded.	C	Retain
T 08	<i>Acer pseudoplatanus</i> (Sycamore) (9.30m Radius of nominal circle; 272m² RPA) (Subject to Tree Preservation Order No. TPO/BN/1/13 (Group 3) issued by Arun District Council)	763mm	18.00m Clear Stem Height N/A	N 4.00 m E 5.00 m S 8.00 m W 5.50 m	Mature 20 yrs +	Located to the northern boundary. Ivy, nettle and a self-seeded Elm grow at the base. The tree has 1 no. dominant leader and a mature primary scaffold arising from the base to the southern aspect. Minor deadwood throughout canopy. Ivy clad to 10.0m height. The tree is largely excurrent in form. Condition – Good.	B	Retain

Ref.no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
T 09	<i>Tilia x europaea</i> (Lime) (10.80m Radius of nominal circle; 366m² RPA) (Subject to Tree Preservation Order No. TPO/BN/1/13 (Group 3) issued by Arun District Council)	891mm	18.00m Clear Stem Height N/A	N 6.00 m E 4.00 m S 6.00 m W 7.00 m	Mature 20 yrs +	The tree is located to the north-eastern corner of the site. Dense Ivy grows within the trees root plate. The tree has one dominant stem and several mature limbs arising from basal growth. There is minor Ivy clad to the lower main stem. Dense canopy with no signs of defects. Inspection of upper and middle crown impeded by dense foliage. Major dead limbs located to the lower primary scaffolds. Overall condition is deemed to be fair. Recommendations: Remove all major deadwood from canopy. Re-inspect tree in winter when the upper canopy is visible. Implement ground protection measures.	B	Retain
T 10	<i>Acer pseudoplatanus</i> (Sycamore) (6.90m Radius of nominal circle; 150m² RPA) (Subject to Tree Preservation Order No. TPO/BN/1/13 (Group 3) issued by Arun District Council)	573mm	16.00m Clear Stem Height 3.00m	N 5.00 m E 1.50 m S 5.00 m W 2.00 m	Mature < 10 yrs	Ivy located to base of tree with Elm seedlings present. Tree located in ditch. Dead Ivy (recently cut at base) held to main stem and lower crown. The trees growth is impeded by T9 and T11. There is major deadwood held to the lower primary scaffolds and significant minor deadwood throughout the crown. The canopy is sparse. Overall condition – Poor. Recommendations: Remove due to condition.	U	Remove

Ref.no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
T 11	<i>Tilia x Europaea</i> (Lime) (9.60m Radius of nominal circle; 290m² RPA) <i>(Subject to Tree Preservation Order No. TPO/BN/1/13 (Group 3) issued by Arun District Council)</i>	795mm	18.00m Clear Stem Height N/A	N 6.00 m E 7.00 m S 8.00 m W 6.00 m	Mature 20 yrs +	Mature Lime located to the far north-eastern corner of the site. Ground around the base lightly vegetated. Considerable basal growth of young to mature limbs resulting in a congested lower crown. Minor and major dead throughout the lower crown. Visual inspection of middle and upper crown impeded by dense foliage. Condition – Good. Recommendations: Remove major deadwood from throughout the canopy. Implement ground protection measures.	B	Retain

Ref.no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
TG 12	<i>Mixed-species Tree Group</i> (2.40m Radius of nominal circle; 18m² RPA) <i>Quercus robur</i> (Oak); <i>Fraxinus excelsior</i> (Ash); <i>Ulmus</i> sp. (Elm); <i>Acer pseudoplatanus</i> (Sycamore).	191mm	12.00m Clear Stem Height 2.00m	As Shown	Young 10 yrs +	Copse of 15 no trees: - Oak - Ash - Elm - Sycamore Elongated in form due to the close proximity of the trees to each other. Ivy held to the main stem in most trees. Impeded to north-east, north-west, south-east and south by adjacent mature trees. Oaks situated to the west of the group have a fuller rounded canopy. The trees are generally in poor to fair condition and are unlikely to make future specimens due to their proximity to each other. The Oaks on the eastern edge of the group may mature into specimens. Recommendations: Implement ground protection measures.	C	Retain
TG 13 A - C	<i>Mixed-Species Tree Group</i> a) <i>Quercus robur</i> (Oak) (6.90m Radius of nominal circle; 137m² RPA) b) <i>Quercus robur</i> (Oak) (4.50m Radius of nominal circle; 64m² RPA) c) <i>Acer pseudoplatanus</i> (Sycamore) (3.30m Radius of nominal circle; 34m² RPA)	a) 573mm b) 350mm c) 255mm	13.0 m (average) Clear Stem Height 1.00m (average)	A/B/C N 8/6/3 m E 8/2/2 m S 1/3/2 m W 7/4/3 m	Early-mature 10 yrs +	A tree group of 1 no. Sycamore and 2 no. Oak of similar size and impeded by tree belt (TL 14) to South. Light Ivy, Nettle and Bramble covering the base of all 3 no. trees. Ivy growing into lower crown up to 5.0m. Minor deadwood in Oak, with growth considered slow. The overall condition is deemed to be fair and the Oaks have some potential of becoming future specimens. Recommendations: Implement ground protection measures in the RPA of TG 13 (a). Lift the north-eastern canopy of TG 13 (a) to 2.0m height above the public footpath to increase the clearance in accordance with 'BS3998: 2010 - Tree Work – Recommendations'.	C	Retain

Ref.no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
TL 14	<i>Populus nigra</i> 'Italica' (Lombardy Poplar) (4.20m Radius of nominal circle; 55m² RPA) (Average)	350mm (Average)	20.00 m (Average) Clear Stem Height N/A	As Shown (Average)	Mature 10 yrs +	Tall single stem Poplar treeline bunched together to form shelter belt along the Southern boundary. The ground is slightly raised compared to the surrounding ground. A ditch is located immediately to the north running parallel with the tree line. The trees are planted in 3 to 4 no. rows between 1 – 2.0m apart. The majority of the trees are leaning at significant angles due to the competition for light. There are intermittent Leyland Cypress planted along Northern edge of the tree line. The overall condition of the tree line is considered to be fair and there are no significant signs of defects. The tree belt has a wide canopy spread due to its splayed nature.	C	Retain
TL 15	<i>X Cuprocyparis leylandii</i> (Leyland Cypress) (4.80m Radius of nominal circle; 72m² RPA) (Average)	382mm (Average)	12.00 m Average Clear Stem Height N/A	As Shown	Mature 10 yrs +	A double row of Leyland Cypress located to the western end of the southern boundary providing a shelter belt to the site. The canopy is sparse from base to mid crown. The overall condition is poor/fair and appears to be deteriorating/dying back from the base of the canopy upwards.	C	Retain
T 16	<i>Quercus robur</i> (Oak) (1.80m Radius of nominal circle; 10m² RPA)	143mm	7.0 m Clear Stem Height 1.00 m	N 2.00 m E 2.00 m S 2.00 m W 2.00 m	Young 10 yrs +	Young Oak located next to footpath edge and adjacent to a ditch. Ivy is present on the main stem. The tree has a decurrent regular form and generally in fair condition. The growth of the tree appears to be stunted which may be due to the proximity of the nearby ditch and TL 15.	C	Retain

Ref.no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
T 17	<i>Acer pseudoplatanus</i> (Sycamore) (4.20m Radius of nominal circle; 55m² RPA)	350mm	11.00 m Clear Stem Height 2.50m	N 3.00 m E 6.00 m S 3.00 m W 2.00 m	Early-mature 10 yrs +	Located to the south-western corner of the site. Growing to base of a wall and next to a ditch. 2 no. co-dominant arising at 1.0m height, the connecting joint is compression wood with minor inclusive bark. Pruning wounds are evident to the lower crown. Overall condition is deemed to be fair/poor.	C	Retain
TG 18	<i>Alnus .sp</i> (Alder) a) (5.10m Radius of nominal circle; 81m² RPA) b) (4.20m Radius of nominal circle; 55m² RPA) (Subject to Tree Preservation Order No. TPO/BN/1/13 (Group 1) issued by Arun District Council)	a) 408mm (CSD) b) 338mm (CSD)	14.00 m (Average) Clear Stem Height 1.5 m (Average)	N/S N 4/2 m E 5/4 m S 3/5 m W 4/4 m	Semi-Mature 10 yrs +	a) 3 no. co-dominant stems from base with no evident signs of damage. Tree is leaning slightly North due to being impeded by T 18 b). b) 2 no. co-dominants from base, straight but leaning slightly South due to being impeded by a) .Primary scaffolds are all horizontal. Recommendations: Remove tree group to accommodate development proposals.	C	a/b Remove

Ref.no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
TL 19 A-G	<i>Acer pseudoplatanus</i> (Sycamore) a) - (3.90m Radius of nominal circle; 48m² RPA) b) - (3.90m Radius of nominal circle; 48m² RPA) c) - (3.90m Radius of nominal circle; 48m² RPA) d) - (3.30m Radius of nominal circle; 34m² RPA) e) - (4.50m Radius of nominal circle; 64m² RPA) f) - (4.80m Radius of nominal circle; 72m² RPA) g) - (3.30m Radius of nominal circle; 34m² RPA)	a) 318mm b) 318mm c) 318mm d) 254mm e) 366mm f) 381mm g) 254mm	15.00 m (average) Clear Stem Height 2.00 m (average)	N 4.00 m E 5.00 m S 4.00 m W 3.00 m (Average)	Semi-mature 10 yrs +	Tall Sycamore eastern boundary tree line. The trees are likely to be self-seeded and are all of irregular form and habit. Growth impeded by close proximity of each tree to the next. Canopy heaviest to East, with light Ivy covering most of the trees to 5.0m height.	C	Retain
T 20	<i>Tilia x europaea</i> (Lime) (9.60m Radius of nominal circle; 290m² RPA) (Subject to Tree Preservation Order No. TPO/BN/1/13 (Group 2) issued by Arun District Council)	795mm	11.00 m Clear Stem Height N/A	N 6.00 m E 6.00 m S 7.00 m W 5.00 m	Mature 20 yrs +	Located next to drive, ditch and road. Arching secondary scaffolds. There are no signs of defects. The overall condition is deemed to fair / good. Congested basal growth of young to mature limbs.	B	Retain

CATEGORY DIVISION - BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'

Trees to be considered for retention	1. Mainly Arboricultural Qualities	2. Mainly Landscape Qualities	3. Mainly cultural values, including conservation
Category A - Trees whose retention is most desirable to include; trees of high quality having an estimated longevity of over 40 years;	- Trees that are particularly good examples of their species, especially if rare or unusual	- Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	- Trees of significant historical, commemorative or other value, or good specimens of rare or unusual species
Category B - Trees where retention is desirable to include; trees of moderate quality having an estimated longevity of over 20 years;	- Trees that might be included in the higher category, but because of significant impaired but remediable condition are downgraded	- Trees present in numbers offering a higher collective categorisation than as individually rated; trees occurring in groups but due to situation, offering little contribution in the context of the wider locality	- Trees having some material conservation or cultural value
Category C - Trees of low quality having an estimated longevity of over 10 year, or young trees with a stem diameter below 150mm;	- Trees in adequate or impaired condition, or those which can be retained with minimal tree surgery, but not worthy for inclusion in the high or moderate category	- Trees present in numbers without having significant landscape value	- Trees having no material conservation or other cultural value

Trees unsuitable for retention

Category U - Trees not for retention within the context of existing land use;	- Trees that are unviable due to serious, irreparable structural defect; early loss is expected due to collapse; - Trees that are dead or showing signs of significant, immediate, irreversible decline; - Trees infected with pathogens of significance to health and subsequent safety, and threat thereof to trees nearby; - Trees of very low quality suppressing the development of those of greater quality; - Trees that will become unviable after the removal of other trees for reasons above.
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CSD – Combined Stem Diameter;

- Root Protection Areas calculated for multiple stemmed trees based upon a combined stem diameter in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.

- The location and constraints of existing trees and vegetation within the survey site are illustrated within drawing; LLD898/ 01 – Tree Constraints Plan.