



Tree Survey

Lullington Solar Farm

Prepared by Lanpro Services Ltd

On behalf of Island Green Power UK

June 2021

Project Reference: 1357

Document Prepared by: Mark Topping

Document Reviewed by: Sarah Clinch

Revision	Reason for Update	Document Updated

Contents

Contents..... 2

1 EXECUTIVE SUMMARY 3

2 INTRODUCTION 4

3 Planning Policy Context..... 6

4 OBSERVATIONS AND TREE INFORMATION 7

5 OBSERVATIONS AND TREE INFORMATION 9

6 CONCLUSIONS 12

Appendix A1 – BS 5837 Tree Data Schedule..... 13

Appendix A2 – Tree Work Schedule 14

Appendix B1 – Tree Constraints Plan..... 15

Appendix B2 –Tree Impact Plan..... 16

Appendix B3 – Tree Protection Plan and Heads of Terms Method Statement 17

Appendix C – Tree Data Analysis..... 18

1 EXECUTIVE SUMMARY

- 1.1 Lanpro Services Limited were appointed by Island Green Power UK to undertake an arboricultural survey of the site and impact assessment of the proposed solar farm in accordance with BS5837 (2012), Trees in relation to design, demolition, and construction – Recommendations. The information provided to the client has helped to inform the site layout to ensure that the proposal is sustainable in respect of important arboricultural and landscape features and that it complies with national and local planning policies.
- 1.2 A total of thirty two individual trees, one group, twelve hedges and one woodland have been assessed within this report. Tree and hedge loss is limited to two individual trees (T11, and T12) to facilitate the proposed development, six small 'road width' sections of hedgerows to facilitate the proposed case road, and associated accesses, and three small 'road width' sections of hedgerows to facilitate the proposed swale. Where visibility splays are required in proximity to existing hedges it is proposed to lay hedgerows to facilitate the visibility splays without the requirement for hedgerow removal and in line with good arboricultural practice. This relates to a single section of hedgerow adjacent to the temporary site compound.
- 1.3 The proposal includes substantial landscape and biodiversity enhancement to be delivered with the scheme including proposed tree and hedgerow planting, which will adequately compensate for these losses, and provided the recommended tree protection measures are adhered to during works on site, my conclusions are that the proposed development is therefore acceptable in both arboricultural terms and in relation to planning policy as it relates to trees.

2 INTRODUCTION

2.1 Lanpro Services Limited were appointed by Island Green Power UK to:

- provide a BS 5837 (2012) tree survey of trees relevant to the site, with recommendations for works, and
- provide an arboricultural impact assessment report which addresses the impacts on trees from the proposed development for planning submission, and provides measures for their protection during construction.

2.2 The proposal is for the provision of a solar farm which includes an array of photovoltaic panels, associated inverters, substations, case road, accesses, and building compound. The proposal also includes landscape and biodiversity enhancements / mitigation and the provision of swales along the western and north-eastern boundaries.

Method of assessment

2.3 This assessment follows best practice British Standard 5837: Trees in relation to design, demolition and construction (2012) which provides a methodology for the assessment of trees and other significant vegetation on development sites and aims to guide decision making towards sustainable design and tree cover on all new developments.

2.4 This assessment also has regard to national and local planning policies in consideration of the arboricultural impacts from the development proposals since these policies will guide the decision-making process of the local planning authority.

Scope and limitations

2.5 The tree survey does not cover the full area of the site, concentrating only on trees and hedges along the three main roads running north to south and includes two trees within the western most field.

2.6 A tree survey is of a preliminary nature only; all trees have only been inspected from ground level applying ¹Mattheck's (1994) visual tree assessment method (VTA). No detailed decay investigations of the trees or detailed site investigations have been carried out to inform this report.

2.7 This report is not an assessment of tree condition and the risk they represent to people or property, however where defects to trees have been noted as requiring works, recommendations are included in the tree schedule included within this report.

2.8 All recommendations are given in the context of the site's current use, or to facilitate the proposed development. Trees are dynamic living organisms, and subject to a change in their condition.

¹ Mattheck, C, Broeler, H. (1994). The body language of trees. A handbook for failure analysis – *Research for Amenity Trees* No.4 Research for Amenity Trees

2.9 This report should not be considered as a full assessment of the health and safety of trees on and adjacent to the site, and where trees do have the potential to harm people or property, an inspection of their condition by the relevant owner on an annual basis is recommended.

2.10 The assessment of trees within this report is valid for two years from its date.

Background documents supplied

2.11 The following documents have been supplied by the client team and relied upon for this report:

Supplier	Name	Date
Lanpro Services Ltd	Site Layout Plan Substation Visibility Splays East Gates Visibility Splays West Gates Swales Cross Section with Planting Landscape Strategy Plan	May 2021

3 Planning Policy Context

National and Local Planning Policy

- 3.1 National Planning policy is set out in the government's National Planning Policy Framework (NPPF) 2019, is a material consideration in any planning application and provides a framework for locally prepared plans for housing and other development. This framework policy promotes a presumption in favour of sustainable development, delivering good quality design and change for the better in our built and natural environment over the lifetime of the development. The NPPF recognises that the natural environment is an essential component of the health and wellbeing of society.
- 3.2 Growth for communities delivered by the planning system requires the careful consideration of our natural environment during the design and development process to achieve sustainable development. This report considers how the development complies with the NPPF and how it achieves sustainable development.
- 3.3 The Local Planning Authorities are governed in their decision-making process by the principle of sustainable development. The Local Plan for South Derbyshire has been prepared in two parts. Part 1 was adopted by Full Council on June 13 2016. The Local Plan Part 2 proposes non-strategic housing allocations and detailed development management policies adopted on November 2 2017.
- 3.4 **BNE7: Trees, Woodland and Hedgerows** - Where development is proposed that could affect trees, woodland and/or hedgerows which are important in terms of their amenity, ecological, landscape or historic value, developers will be expected to demonstrate that:
- i) the layout and form of development have been informed by an appropriate arboricultural and/or hedgerow surveys;
 - ii) development would not suffer from undue shading either now or in the future; and
 - iii) appropriate measures are secured to ensure adequate root protection and buffers around trees, woodland and hedgerows.

4 OBSERVATIONS AND TREE INFORMATION

The Site

- 4.1 The site was visited on 19 April 2021 to carry out a BS5837 (2012) survey and assessment of trees.
- 4.2 The development site is Lullington, Coton-in-the-Elms, Swadlincote, DE12 8EW

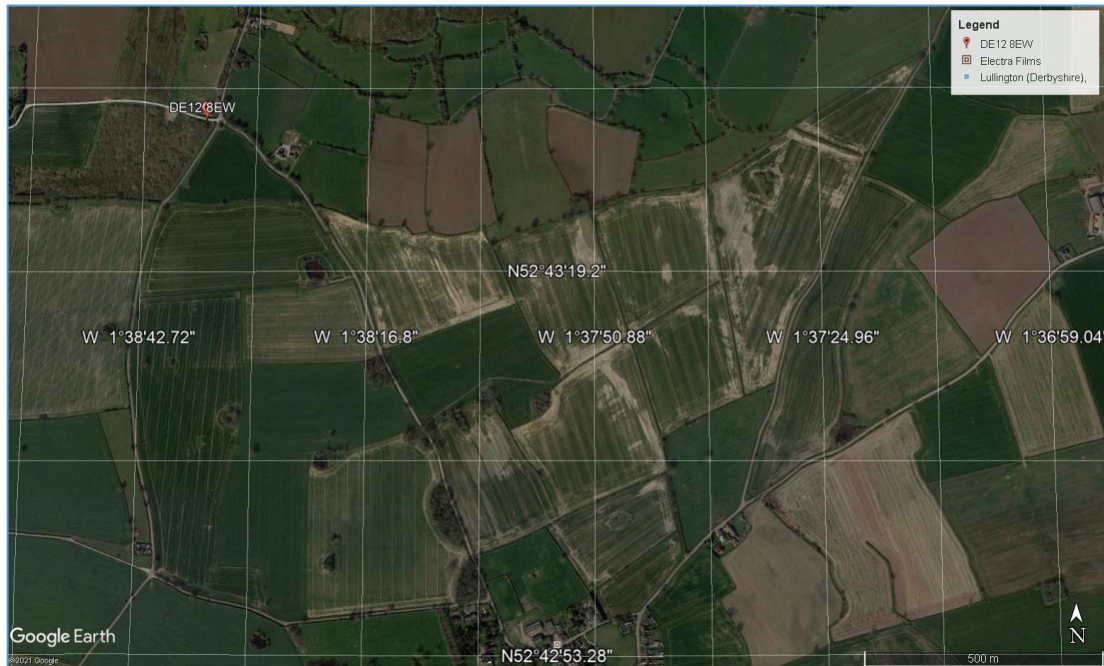


Fig. 1 Google Earth 2021 – site location

Tree data

- 4.3 The data on the trees surveyed can be found in the tree schedule at Appendix A1. In terms of the areas of the site surveyed, a total of thirty two individual trees, one group, twelve hedges and one woodland have been assessed, any tree works are identified in the tree work schedule at Appendix A2.
- 4.4 The surveyed trees and their assessment of quality and value are indicated on the Tree Constraints Plan at Appendix B1.
- 4.5 The proposed layout and where relevant, trees for removal are shown at Appendix B2.
- 4.6 The tree protection plan is provided at Appendix B3.
- 4.7 An analysis of the tree quality and value, species mix, and age diversity of those survey trees is included at Appendix C, which helps to understand the sustainability of the existing tree population around areas of the site.

Site soils and influence on rooting

- 4.8 Soil conditions will have a significant effect upon tree growth and will influence:
- The species that will grow successfully.
 - Rooting depths for different species.

- The available soil volume that can be used by roots and therefore the likely tolerance of trees and other vegetation to soil disturbance

4.9 As a guide, ²Cranfield University Soilscape map describes the soils at the site as **Soilscape 8**: Slightly acid loamy and clayey soils with impeded drainage, these soils will be prone to compaction and therefore implementation and adherence to appropriate tree protection measures will be critical to protect the rooting areas of retained trees.

Legal status of trees / woodlands

4.10 The According to the South Derbyshire District Council online mapping facility (see below) there does not appear to be any trees within or bordering the site boundaries which are subject of a tree preservation order or are by virtue of being within a conservation area. However prior to any tree works being undertaken, it is always advisable to check the legal status of trees with the local planning authority.

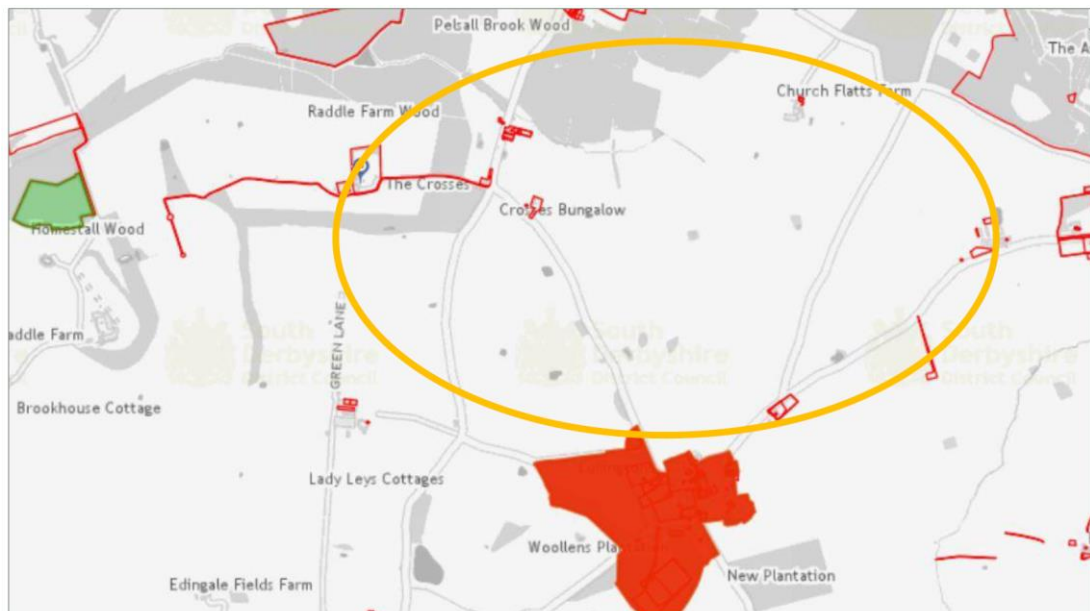


Fig. 2. West Extract of South Derbyshire District Council Mapping – Area indicated by yellow oval. (Conservation Area coloured red, TPO green)

4.11 The removal or pruning of any legally protected trees requires prior written Local Planning Authority (LPA) approval unless granted through full and detailed planning consent where the works have been clearly specified and agreed as necessary to implement that consent.

² <http://www.landis.org.uk>

5 OBSERVATIONS AND TREE INFORMATION

Key arboricultural impacts

- 5.1 The following arboricultural impacts have been identified in relation to the proposed development:

Activity	Potential Impact			
Tree Loss for Development	Category A	Category B	Category C	Category U
	0	T12, Small section of H40	T11	0
	The layout is generally very sensitive to the retention of the hedgerows and trees around and within the site and has sought to avoid or minimise their loss. There are four small 'road width' sections of hedgerow to be removed to facilitate the proposed case road where it crosses over existing field boundaries, a small section of a B2 category hedge (H40) to facilitate the proposed access east of Lullington Road, a small section of hedgerow to create the proposed access into the site compound area, and a 104m length of hedgerow to be laid to achieve the proposed visibility splay south of the access into the proposed compound area. There are three further sections of hedgerow (25m) to be removed to accommodate two proposed swales to the north eastern and western site boundaries. T12 is a mature oak in poor structural condition but of good physiological condition, its value is mainly as a potential habitat for bats / birds and contribution to the landscape generally, however as an individual tree it is of low quality due to the presence of several structural defects. T12 requires removal to facilitate installation of the PV panels in the western area of the site. This tree should be checked for the presence of bats and nesting birds prior to its removal. T11 is a mature oak in poor physiological and structural condition, with significant dieback and structural decay, and requires removal to facilitate installation of the PV panels in the western area of the site. It should be checked for the presence of bats and nesting birds prior to its removal.			
Tree Loss for Arboricultural Reasons	There are no trees proposed for removal for arboricultural reasons although several category U trees have been identified within the survey.			
³ RPA and tree crown Impact	The general impacts on retained trees can be managed by following the requirements of the tree protection plan and heads of terms method statement at Appendix B3.			
RPA incursion: Demolition	There is no demolition activity proposed for this project.			
RPA incursion: Construction	Construction operations are generally outside the RPA of retained trees and provided the tree protection plan and heads of terms method statement at Appendix B3 is used as a guide for construction operations, this should ensure that any works will not harm retained trees. There are incursions into the RPA of two trees along the line of the proposed swale (T16 – Oak and T21 – Lombardy Poplar); however the RPA's shown do			

³ RPA Section 3.7 of BS5837 (2012): layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure is treated as a priority.

	not take account of the current location of these trees within areas of arable cultivation. The roots of these trees are subject to regular subsoiling and harrowing as part of the current arable land use and therefore it is assessed that the roots would either be absent in the field or below the depth of current cultivation and thus unlikely to be affected by construction of the proposed swale. The same applies to existing trees adjacent to the north-eastern swale. Once the swale is established the change of land use of the site and the ceasing of cultivation would provide an opportunity for a larger root zone to become established for these trees.
RPA Incursion: Soil levels change	No soil level changes are anticipated within the root protection area of retained trees with the exception of those identified above.
RPA Incursion: Underground services and drainage	No information is currently available relating to underground services however it should be possible to locate the utilities outside the RPA of trees. If it is essential to locate underground services within the RPAs of retained trees these operations should follow the recommendations in the NJUG guidelines ⁴ . In addition, it is also recommended that these works are carried out under arboricultural supervision when being installed.
RPA Incursion Landscape operations	Provided the tree protection plan is used as a guide for landscape operations, this should ensure that any works for improving the hard and soft landscape elements will not harm trees. Any landscaping works within the tree protection areas should be undertaken by hand only avoiding using machinery. Where machinery is unavoidable this should be tracked and light weight only (max of 2 tonnes). Temporary ground protection should always be installed beforehand as follows and in line with BS5837:2012: • <i>Pedestrian</i> – single thickness scaffold boards placed on top of a compressible resistant layer of 100mm of woodchip laid onto a geotextile membrane. • <i>Pedestrian operated plant</i> – gross weight of 2 tonne, proprietary inter-linked ground protection boards placed on top of a compressible resistant layer of 150mm of woodchip laid onto a geotextile membrane.
Pruning to facilitate development	A section of H22 will need to be pruned back slightly to achieve visibility splays on Lullington Road, and 157m length of hedgerow will need pruning back to achieve the visibility splays for the proposed compound access in the east of the site. This will be minor pruning work of little arboricultural or landscape significance. A 104m section of hedgerow is proposed to be laid to accommodate the temporary site compound. This would be allowed to regrow post construction to a height prescribed in the landscape visual appraisal.
Future growth of retained trees	This is not considered to be an issue as the layout is well designed away from trees and tree crowns.
Daylight and sunlight	This is not considered to be an issue for this site.

Change from the Proposal

- 5.2 The proposal has sought to keep tree and hedge loss to a minimum and to work with retaining as many landscape features as possible, working with their constraints as appropriate. Loss is therefore limited to two mature oak trees, T11, and T12, and generally small sections of hedgerows. All other hedgerows, trees and woodlands are retained.

⁴ National Joint Utilities Group (NJUG) *Guidelines for the planning, installation, and maintenance of utility apparatus in proximity to trees*. Volume 4 Issue 2. London: NJUG, 2007

Mitigation

- 5.3 The proposed losses will be mitigated through substantial landscape and biodiversity enhancement within and around the site boundaries, ensuring a positive biodiversity net gain.

Sustainability and Compliance with planning policy

- 5.4 The proposed development has been informed by the presence and constraints of trees, hedges and woodlands, tree and hedge loss are limited, and substantial compensation through new planting is offered to ensure that the proposal is sustainable and will provide a net gain in terms of tree and hedge cover on and around the site. This approach demonstrates compliance with adopted planning policy BNE7 and national policy as it relates to the consideration of the natural environment.

6 CONCLUSIONS

- 6.1 This report demonstrates that trees have been considered properly in accordance with best practice, impacts identified, and mitigation suggested to ensure risks from demolition and construction operations associated with the proposal can be reasonably managed and implemented where necessary.
- 6.2 A total of thirty two individual trees, one group, twelve hedges and one woodland have been assessed within this report. Tree and hedge loss is limited to two individual trees (T11, and T12) to facilitate the proposed development, and six small 'road width' sections of hedgerows to facilitate the proposed case road, and associated accesses, and three small 'road width' sections of hedgerows to facilitate the proposed swale. A 104m length of existing hedgerow is proposed to be laid, located within the eastern extents of the site to facilitate the visibility splays for the proposed compound access.
- 6.3 Some pruning back of existing hedgerows will also be required to improve the visibility splays for the proposed access of Lullington Road, and the proposed compound access to the east of the site, this is minor work and can be implemented without significant harm to their long-term health.
- 6.4 The proposal introduces substantial landscape and biodiversity enhancements, including new hedgerows and trees and woodland copses which aim to compensate for the proposed losses, and positively improve and strengthen the local landscape character.
- 6.5 Subject to adopting the approaches and best practice recommendations within this report and associated drawings it is possible to conclude the proposed development can incorporate important or significant trees and hedges sustainably, where losses are unavoidable the proposal will enhance the local landscape through the delivery of new trees and hedges and therefore is sustainable and complies with national and local planning policies in this respect.

Appendix A1 – BS 5837 Tree Data Schedule

Lullington Solar Farm

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Hedge H1	1 Crataegus monogyna (Common Hawthorn/Quick/May)	3.0	15 AVE	1	1.0		1.0		1.0		1.0		0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Rural managed hedgerow, 'A' shaped, evidence of traditional laying, recently cut Average stem diameter given Numbers in group not counted Stems located 2-4m from road edge	19/04/2021	10.2	1.8	20-40	B2
	1 Prunus spinosa (Blackthorn/Sloe)																				
	1 Fraxinus excelsior (Ash)																				
	1 Ilex aquifolium (Holly)																				
	1 Acer campestre (Field Maple)																				
	1 Sambucus nigra (Elder)																				
	1 Ulmus sp. (Elm sp.)																				
	1 Rubus fruticosus s. (Blackberry/Bramble)																				

Stem **green** Estimated valueStem **AVE** Average stem diameter for tree groupsStem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Hedge H2	1 Crataegus monogyna (Common Hawthorn/Quick/May)	2.5	15 AVE	1	1.0		1.0		1.0		1.0		0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Rural managed hedgerow, 'A' shaped, evidence of traditional laying, recently cut Average stem diameter given Numbers in group not counted Stems located 3.8m from road edge, on top of bank adjacent to ditch	19/04/2021	10.2	1.8	20-40	B2
	1 Ilex aquifolium (Holly)																				
	1 Rubus fruticosus s. (Blackberry/Bramble)																				
	1 Ulmus sp. (Elm sp.)																				
Hedge H3	1 Crataegus monogyna (Common Hawthorn/Quick/May)	2.5	15 AVE	1	1.0		1.0		1.0		1.0		0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Rural managed hedgerow, 'A' shaped, evidence of traditional laying, recently cut Average stem diameter given Numbers in group not counted Stems located 3.8m from road edge, on top of bank adjacent to ditch	19/04/2021	10.2	1.8	20-40	B1
	1 Ulmus sp. (Elm sp.)																				
	1 Ilex aquifolium (Holly)																				
	1 Rubus fruticosus s. (Blackberry/Bramble)																				
	1 Prunus spinosa (Blackthorn/Sloe)																				
Tree T4	1 Ulmus sp. (Elm sp.)	6.0	12	1	2.7		2.7		2.5		2.7		2.5	L	Early Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Restricted / obscured. Branch - Broken. Rubbing limbs. Susceptible to Dutch elm disease	19/04/2021	6.5	1.4	10-20	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T5	1 Ulmus sp. (Elm sp.)	8.0	20	1	4.5		4.3		4.0		4.3		3.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Restricted / obscured. Branch - Broken. Rubbing limbs. Susceptible to Dutch elm disease	19/04/2021	18.1	2.4	10-20	C1
Tree T6	1 Ilex aquifolium (Holly)	7.0	25	1	1.5		1.5		1.5		1.5		3.0	H	Early Mature	Structural condition Poor. Physiological condition Fair. Access to inspect base - Not possible. Decay / structural defect - Open cavity / cavities. Decay / structural defect - Principal stems.	19/04/2021	28.3	3.0	0-10	U
Tree T7	1 Ulmus sp. (Elm sp.)	8.0	15 COM	2	3.8		3.8		3.8		3.8		4.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Restricted / obscured. Branch - Broken. Rubbing limbs. Susceptible to Dutch elm disease, growing from hedge	19/04/2021	11.0	1.9	10-20	C1
Tree T8	1 Ilex aquifolium (Holly)	7.0	30	1	2.8		2.8		2.8		3.0		4.5	H	Mature	Structural condition Poor. Physiological condition Fair. Access to inspect base - Not possible. Decay / structural defect - Extensive. Decay / structural defect - Open cavity / cavities. Decay / structural defect - Principal stems.	19/04/2021	40.7	3.6	0-10	U
Tree T9	1 Ulmus sp. (Elm sp.)	9.0	17 COM	2	4.0		4.0		4.0		4.0		4.5	L	Early Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Restricted / obscured. Branch - Broken. Susceptible to Dutch elm disease, growing from hedge	19/04/2021	14.2	2.1	10-20	C1
Tree T10	1 Quercus robur (English Oak)	7.0	15	1	3.0		3.0		3.0		3.0		3.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible.	19/04/2021	10.2	1.8	40+	C1
Tree T11	1 Quercus robur (English Oak)	12.0	85	1	7.0		5.4		7.0		6.0		4.0	H	Mature	Structural condition Fair. Physiological condition Fair. Die-back - Upper crown. Decay / structural defect in crown limb / limbs - Extensive. Decay / structural defect in crown limb / limbs - Localised. Deadwood - Major. Deadwood - Minor. Epicormic growth - Base. Root decay - Evident / observed. Root damage - Mechanical. Major structural roots have been cut historically C1 individual	19/04/2021	326.9	10.2	20-40	C2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T12	1 Quercus robur (English Oak)	15.0	101	1	10.8		7.7		6.8		7.8		3.5	H	Mature	Structural condition Poor. Physiological condition Good. Decay / structural defect - Base. Decay / structural defect - Extensive. Decay / structural defect - Open cavity / cavities. Decay / structural defect - Principal stems. Shedding limb / limbs - Historic. Shedding limb / limbs - Major. Unbalanced crown - Minor. Main leader has broken out historically in upper crown, more recently, shed lower minor limb, suspended from stem Major defects probably have associated habitat value C1 individual	19/04/2021	461.5	12.1	20-40	B2/B3
Tree T13	1 Quercus robur (English Oak)	16.0	86	1	3.8		7.8		9.2		7.8		2.5	L	Mature	Structural condition Good. Physiological condition Good. Access to inspect base - Restricted / obscured. Deadwood - Major. Deadwood - Minor. Ivy or climbing plant. Suppressed crown - Major.	19/04/2021	334.6	10.3	40+	B1/B2
Tree T14	1 Quercus robur (English Oak)	16.0	71	1	7.4		6.8		4.5		7.5		3.0	L	Mature	Structural condition Good. Physiological condition Good. Access to inspect base - Restricted / obscured. Deadwood - Major. Deadwood - Minor. Ivy or climbing plant. Suppressed crown - Major.	19/04/2021	228.0	8.5	40+	B2
Tree T15	1 Ilex aquifolium (Holly)	8.0	35	1	3.0		3.0		3.0		3.0		2.5	L	Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Die-back - Throughout crown. Deadwood - Minor.	19/04/2021	55.4	4.2	10-20	C1/C2
Tree T16	1 Quercus robur (English Oak)	13.0	70	1	7.5		6.0		5.8		4.7		3.0	H	Mature	Structural condition Fair. Physiological condition Good. Access to inspect base - Restricted / obscured. Decay / structural defect in crown limb / limbs - Localised. Decay / structural defect in crown limb / limbs - Open cavity / cavities. C1 individual	19/04/2021	221.7	8.4	20-40	B2
Tree T17	1 Quercus robur (English Oak)	6.0	24	1	3.9		3.9		3.9		3.9		2.5	H	Semi Mature	Structural condition Good. Physiological condition Good. Access to inspect base - Restricted / obscured. Deadwood - Minor.	19/04/2021	26.1	2.9	40+	B1/B2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Hedge H18	1 Crataegus monogyna (Common Hawthorn/Quick/May)	2.0	15 AVE	1	1.0		1.0		1.0		1.0		0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Numbers in group not counted Stems located 4m from road edge, on top of bank adjacent to ditch	19/04/2021	10.2	1.8	20-40	B2
	1 Prunus spinosa (Blackthorn/Sloe)																				
	1 Ilex aquifolium (Holly)																				
	1 Acer campestre (Field Maple)																				
	1 Ulmus sp. (Elm sp.)																				
	1 Rubus fruticosus s. (Blackberry/Bramble)																				
Group G19	1 Fraxinus excelsior 'Allgold' (Ash cv.)	21.0	25 AVE	1	4.0		4.0		4.0		4.0		3.0	L	Early Mature	Structural condition Good. Physiological condition Good. Access to inspect base - Not possible. Base / stems obscured - Vegetation. Suppressed crown - Minor. Susceptible to ash dieback Numbers in group not counted Average stem diameter given	19/04/2021	28.3	3.0	20-40	C1/C2
	1 Populus sp. (Poplar sp.)																				
Tree T20	1 Salix fragilis (Crack Willow)	20.0	60 COM	5	8.0		7.0		7.0		8.7		4.0	L	Mature	Structural condition Poor. Physiological condition Good. Access to inspect base - Not possible. Base / stems obscured - Vegetation. Low crown break with heavy main leaders / lateral branches	19/04/2021	166.3	7.3	10-20	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T21	1 Populus nigra 'Italica' (Lomardy Poplar)	18.0	35	1	2.0		2.0		2.0		2.0		1.0	L	Early Mature	Structural condition Fair. Physiological condition Good. Access to inspect base - Not possible. Base / stems obscured - Vegetation.	19/04/2021	55.4	4.2	20-40	B1
Hedge H22	1 Crataegus monogyna (Common Hawthorn/Quick/May)	2.0	15	1	1.0		1.0		1.0		1.0		0.0	L	Early Mature	Structural condition Fair. Physiological condition Good. Access to inspect base - Not possible. Hedgerow - Maintained. Evidence of traditional laying Some hedge lengths are 1m high, slightly gappy	19/04/2021	10.2	1.8	20-40	B2
	1 Ilex aquifolium (Holly)		AVE																		
	1 Prunus spinosa (Blackthorn/Sloe)																				
	1 Rubus fruticosus s. (Blackberry/Bramble)																				
	1 Sambucus nigra (Elder)																				

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Hedge H23	1 Acer campestre (Field Maple)	2.5	15 AVE	1	1.0		1.0		1.0		1.0		0.0	L	Early Mature	Structural condition Fair. Physiological condition Good. Access to inspect base - Not possible. Hedgerow - Maintained. Evidence of traditional laying Includes scattered gorse at northern end	19/04/2021	10.2	1.8	20-40	B2
	1 Crataegus monogyna (Common Hawthorn/Quick/May)																				
	1 Fraxinus excelsior (Ash)																				
	1 Ilex aquifolium (Holly)																				
	1 Prunus spinosa (Blackthorn/Sloe)																				
	1 Rubus fruticosus s. (Blackberry/Bramble)																				
	1 Ulmus sp. (Elm sp.)																				
Tree T24	1 Quercus robur (English Oak)	13.0	64	1	7.0		7.0		5.0		7.3		4.0	L	Mature	Structural condition Good. Physiological condition Fair. Access to inspect base - Restricted / obscured. Arboricultural work - Historic. Deadwood - Major. Deadwood - Minor. Epicormic growth - Base / bole / principal stems.	19/04/2021	185.3	7.7	40+	B1/B2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T25	1 Quercus robur (English Oak)	12.0	72	1	3.4		5.0		6.8		7.3		2.5	L	Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Restricted / obscured. Arboricultural work - Historic. Die-back - Upper crown. Deadwood - Major. Deadwood - Minor. Epicormic growth - Base / bole / principal stems. Ivy or climbing plant. Suppressed crown - Major. Possible hidden decay under ivy at bole	19/04/2021	234.5	8.6	20-40	B2
Tree T26	1 Quercus robur (English Oak)	10.0	80	1	6.0		4.5		6.6		6.0		1.0	L	Mature	Structural condition Good. Physiological condition Good. Access to inspect base - Restricted / obscured. Deadwood - Major. Deadwood - Minor. Epicormic growth - Base / bole / principal stems. Ivy or climbing plant. Pruned crown to east, away from overhead wires Major adaptive buttress root to west	19/04/2021	289.5	9.6	40+	B1/B2
Tree T27	1 Quercus robur (English Oak)	9.0	57 COM	2	4.6		3.8		5.5		4.0		2.5	L	Mature	Structural condition Fair. Physiological condition Poor. Branch - Broken. Die-back - Throughout crown. Decay / structural defect in crown limb / limbs - Localised. Deadwood - Major. Deadwood - Minor. Decay / structural defect - Extensive. Decay / structural defect - Principal stems. P	19/04/2021	148.4	6.9	10-20	C1/C2
Hedge H28	1 Crataegus monogyna (Common Hawthorn/Quick/May)	1.5	15 AVE	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	L	Early Mature	Structural condition Fair. Physiological condition Good. Access to inspect base - Not possible. Hedgerow - Maintained. Slightly gappy	19/04/2021	10.2	1.8	20-40	B2
	1 Prunus spinosa (Blackthorn/Sloe)																				
	1 Rubus fruticosus s. (Blackberry/Bramble)																				
	1 Sambucus nigra (Elder)																				

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T29	1 Quercus robur (English Oak)	6.0	14	1	3.5		3.5		3.5		3.5		2.0	L	Semi Mature	Structural condition Good. Physiological condition Fair. Access to inspect base - Restricted / obscured. Deadwood - Minor.	19/04/2021	8.9	1.7	20-40	C1
Tree T30	1 Quercus robur (English Oak)	8.0	16	1	4.0		4.0		4.0		4.0		1.0	L	Semi Mature	Structural condition Good. Physiological condition Good. Access to inspect base - Restricted / obscured. Not on topographical survey - position estimated	19/04/2021	11.6	1.9	40+	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Woodlan W31	1 Acer campestre (Field Maple)	20.0	45 AVE	1									0.0	L	Mature	Structural condition Good. Physiological condition Fair. Small copse, variable age range young to mature Ash dieback evident Some mature oaks scattered within Pond Average stem diameter given	19/04/2021	91.6	5.4	40+	B2
	1 Acer pseudoplatanus (Sycamore)																				
	1 Crataegus monogyna (Common Hawthorn/Quick/May)																				
	1 Fraxinus excelsior (Ash)																				
	1 Ilex aquifolium (Holly)																				
	1 Prunus spinosa (Blackthorn/Sloe)																				
	1 Quercus robur (English Oak)																				
	1 Salix sp. (Willow sp.)																				
	1 Ulmus sp. (Elm sp.)																				
Tree T32	1 Quercus robur (English Oak)	20.0	47	1	8.6	6.0	6.0	2.0					4.5	L	Mature	Structural condition Fair. Physiological condition Good. Suppressed crown - Major. Part of copse unit	19/04/2021	99.9	5.6	20-40	B2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T33	1 Quercus robur (English Oak)	20.0	75	1	7.2		9.0		6.0		6.0		5.0	L	Mature	Structural condition Fair. Physiological condition Fair. Die-back - Mid crown. Die-back - Upper crown. Deadwood - Major. Deadwood - Minor. Part of copse unit	19/04/2021	254.5	9.0	20-40	B2
Tree T34	1 Quercus robur (English Oak)	19.0	85	1	8.0		9.0		8.6		8.0		5.0	M	Mature	Structural condition Fair. Physiological condition Poor. Access to inspect base - Restricted / obscured. Arboricultural work - Historic. Bark exudation. Die-back - Mid crown. Die-back - Upper crown. Deadwood - Major. Deadwood - Minor. Part of copse unit Twin leaders Not on topographical survey - position estimated	19/04/2021	326.9	10.2	0-10	U
Tree T35	1 Quercus robur (English Oak)	9.0	50	1	4.0		4.4		7.8		7.0		2.5	L	Early Mature	Structural condition Fair. Physiological condition Good. Access to inspect base - Restricted / obscured. Arboricultural work - Historic. Deadwood - Minor. Pruning wounds - Decayed. Part of copse unit Not on topographical survey - position estimated	19/04/2021	113.1	6.0	20-40	B2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Hedge H36	1 Acer pseudoplatanus (Sycamore)	1.5	15 AVE	1	1.0		1.0		1.0		1.0		0.0	L	Early Mature	Structural condition Fair. Physiological condition Good. Access to inspect base - Not possible. Hedgerow - Maintained. Average stem diameter given	19/04/2021	10.2	1.8	20-40	B2
	1 Crataegus monogyna (Common Hawthorn/Quick/May)																				
	1 Ilex aquifolium (Holly)																				
	1 Prunus spinosa (Blackthorn/Sloe)																				
	1 Rubus fruticosus s. (Blackberry/Bramble)																				
	1 Sambucus nigra (Elder)																				
Tree T37	1 Ilex aquifolium (Holly)	8.0	31 COM	2	2.5		2.5		2.5		2.5		4.0	L	Early Mature	Structural condition Fair. Physiological condition Poor. Die-back - Throughout crown. Northern most stem decaying stump	19/04/2021	43.8	3.7	0-10	U
Tree T38	1 Ilex aquifolium (Holly)	8.0	25	1	2.9		1.5		0.5		2.9		4.0	H	Early Mature	Structural condition Fair. Physiological condition Poor. Access to inspect base - Not possible. Access to inspect base - Restricted / obscured. Die-back - Throughout crown. Decay / structural defect - Open cavity / cavities. Decay / structural defect - Principal stems. Ivy or climbing plant.	19/04/2021	28.3	3.0	0-10	U
Tree T39	1 Quercus robur (English Oak)	15.0	75	1	7.5		9.0		9.7		8.0		4.0	L	Early Mature	Structural condition Good. Physiological condition Good. Access to inspect base - Restricted / obscured. Arboricultural work - Historic. Deadwood - Major. Deadwood - Minor. Ivy or climbing plant.	19/04/2021	254.5	9.0	40+	B1/B2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Hedge H40	1 Acer campestre (Field Maple)	1.5	12 AVE	1	1.0		1.0		1.0		1.0		0.0	L	Early Mature	Structural condition Fair. Physiological condition Good. Access to inspect base - Not possible. Hedgerow - Maintained. Average stem diameter given	19/04/2021	6.5	1.4	20-40	B2
	1 Acer pseudoplatanus (Sycamore)																				
	1 Crataegus monogyna (Common Hawthorn/Quick/May)																				
	1 Ilex aquifolium (Holly)																				
	1 Prunus spinosa (Blackthorn/Sloe)																				
	1 Rubus fruticosus s. (Blackberry/Bramble)																				
	1 Sambucus nigra (Elder)																				
	1 Ulmus sp. (Elm sp.)																				

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Hedge H41	1 Acer campestre (Field Maple)	1.5	15 AVE	1	1.0		1.0		1.0		1.0		0.0	L	Mature	Structural condition Fair. Physiological condition Good. Hedgerow - Maintained. Average stem diameter given Evidence of traditional hedge laying	19/04/2021	10.2	1.8	20-40	B2
	1 Corylus avellana (Common Hazel)																				
	1 Crataegus monogyna (Common Hawthorn/Quick/May)																				
	1 Fraxinus excelsior (Ash)																				
	1 Ilex aquifolium (Holly)																				
	1 Rubus fruticosus s. (Blackberry/Bramble)																				
	1 Sambucus nigra (Elder)																				
	1 Ulmus sp. (Elm sp.)																				
Tree T42	1 Quercus robur (English Oak)	14.0	40	1	5.8		5.3		5.0		5.5		4.5	L	Mature	Structural condition Fair. Physiological condition Good. Access to inspect base - Restricted / obscured. Deadwood - Major. Deadwood - Minor. Ivy or climbing plant. Suppressed by ivy	19/04/2021	72.4	4.8	20-40	B2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Lullington

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T43	1 Fraxinus excelsior (Ash)	17.0	60	1	6.6		6.6		6.8		5.5		4.0	L	Mature	Structural condition Poor. Physiological condition Fair. Access to inspect base - Not possible. Die-back - Throughout crown. Decline - Evident / observed. Decay entry points. Deadwood - Minor. Decay / structural defect - Suspected. Epicormic growth - Crown. Ivy or climbing plant. Susceptible to ash dieback - suspect present Fungal fruiting body Inonotus hispidus on main stem	19/04/2021	162.9	7.2	0-10	U
Hedge H44	1 Crataegus monogyna (Common Hawthorn/Quick/May)	1.0	15 AVE	1	1.0		1.0		1.0		1.0		0.0	L	Mature	Structural condition Fair. Physiological condition Good. Access to inspect base - Not possible. Hedgerow - Maintained. Ivy or climbing plant. Average stem diameter given Evidence of traditional hedge laying	19/04/2021	10.2	1.8	20-40	B2
	1 Fraxinus excelsior (Ash)																				
	1 Rubus fruticosus s. (Blackberry/Bramble)																				
Hedge H45	1 Crataegus monogyna (Common Hawthorn/Quick/May)	1.0	15 AVE	1	1.0		1.0		1.0		1.0		0.0	L	Mature	Structural condition Fair. Physiological condition Good. Hedgerow - Maintained. Average stem diameter given Evidence of traditional hedge laying	19/04/2021	10.2	1.8	20-40	B2
	1 Fraxinus excelsior (Ash)																				
	1 Quercus robur (English Oak)																				
	1 Rubus fruticosus s. (Blackberry/Bramble)																				
	1 Ilex aquifolium (Holly)																				

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Page 15 of 17

Generated By

MyTREES
tree management software

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T46	1 Acer pseudoplatanus (Sycamore)	10.0	35	1	5.0		3.0		5.0		5.0		4.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Restricted / obscured. Arboricultural work - Recent. Epicormic growth - Base. Poor past pruning. Poorly pruned away from overhead wires poor resulting form	19/04/2021	55.4	4.2	10-20	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Table 1 of BS5837 (2012)

Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where 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 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 decline * Trees infected with pathogens of significance to 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	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	Tree 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).	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 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.	BLUE
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.	GREY

Bat Potential Roost Feature

N: Negligible potential

L: Low potential

M: Moderate potential

H: High potential

C: Confirmed Roost

Appendix A2 – Tree Work Schedule

Tree Work Schedule

Lullington Solar Farm

Date: June 2021

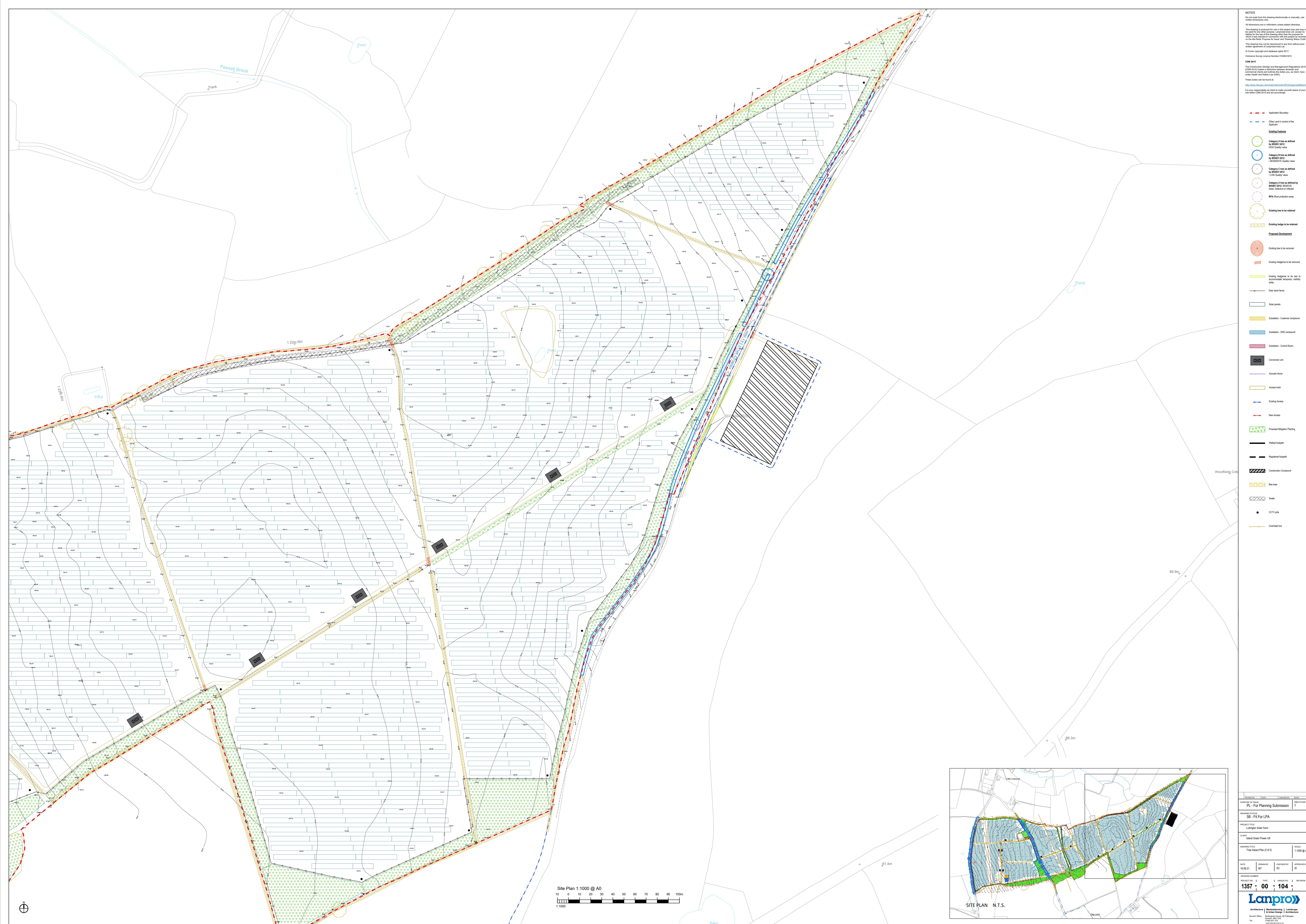
Tree / Group No.	Tag Number	Species	BS Category	Life Stage	Recommended works
T11		English oak	C2	Mature	Remove to facilitate development
T12		English oak	B2/B3	Mature	Remove to facilitate development
T16		English oak	B2	Mature	Remove deadwood
T21		Lombardy poplar	B1	Early mature	Remove deadwood
H22		Mixed native species	B2	Early mature	Face back hedge to achieve visibility splay
H40		Mixed native species	B2	Early mature	Small section to be removed to facilitate the proposed Lullington Road access
Internal hedgerows		Not surveyed			Seven small road width sections to be removed to facilitate the proposed case road and swale across the site extents
Compound Area Hedge		Not surveyed			Small road width section to be removed to facilitate the proposed compound access
Compound Area Hedge		Not surveyed			104m length of hedge to be laid to achieve required visibility splay for the proposed compound access
Compound Area Hedge		Not surveyed			Face back a total of 150m length of hedgerow (either side of proposed compound access) to achieve visibility splay

NOTE:

All tree works should comply with BS 3998 (2010) - Recommendations. If necessary, appropriate checks by a suitably qualified ecologist should be made before tree works are undertaken, and all works should only be carried out once planning permission has been granted and any pre-commencement planning conditions relating to tree work have been discharged

Appendix B1 – Tree Constraints Plan

Appendix B2 –Tree Impact Plan



NOTES

Do not scale from this drawing electronically or manually, use written dimensions only.

All dimensions are in millimetres unless stated otherwise.

This drawing is prepared for use in the planning process and may not be used for any other purpose. Landowners (L) should be notified by the end of the planning process for the purpose of the planning process.

This drawing may not be reproduced in any form without prior written approval of Landpro Limited.

© Crown copyright and database rights 2017.

Ordnance Survey Licence Number 100019173.

CSW 2015

The Construction (Design and Management) Regulations 2015 (CDM 2015) states a dutyholder (contractor) must ensure that all construction work is carried out in a safe and sound manner.

These duties can be found at:

https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/430000/CDM2015.pdf

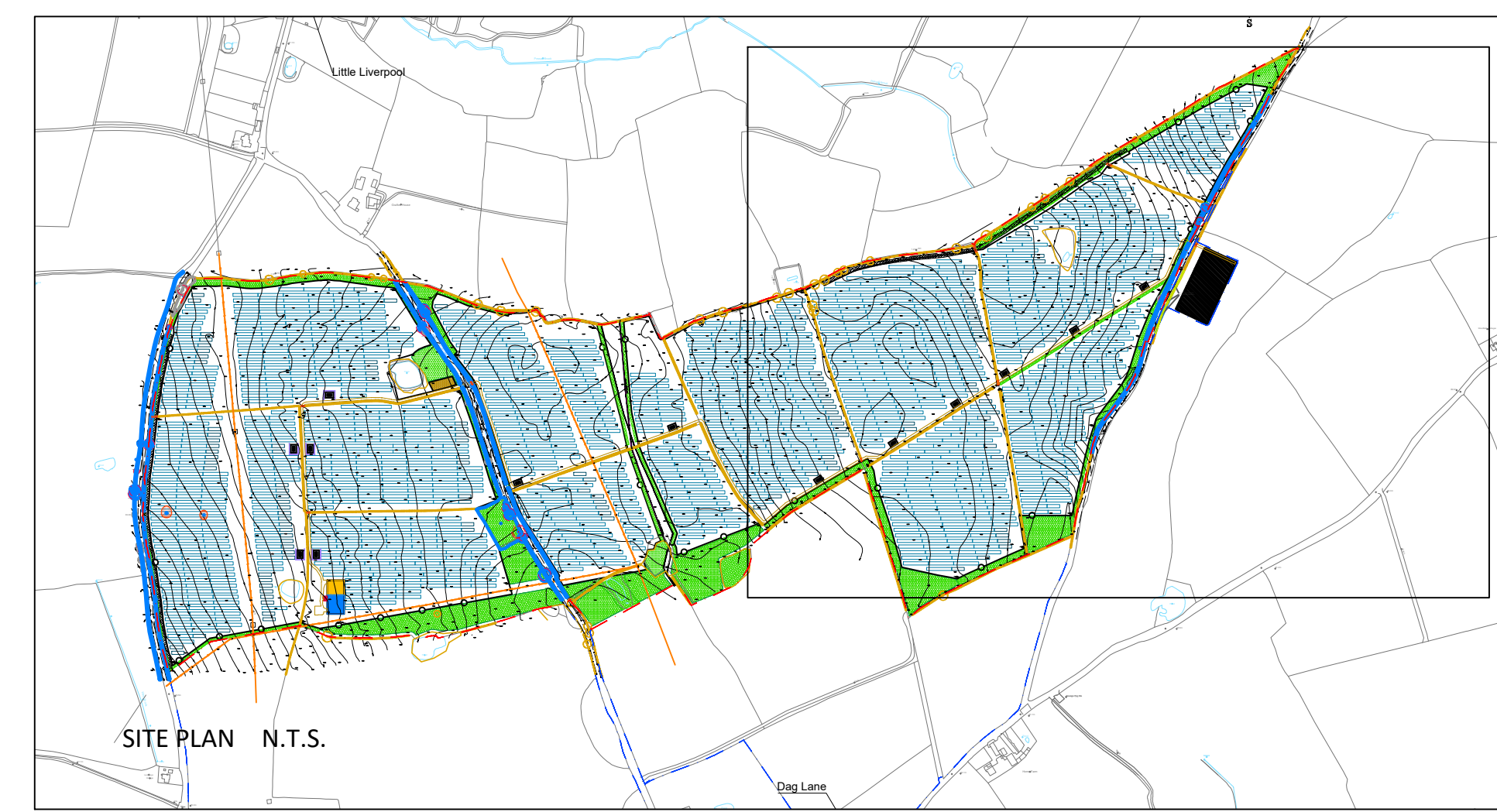
It is your responsibility as client to make yourself aware of your role within CDM 2015 and act accordingly.

- Application Boundary
- Other Land in control of the Applicant
- Existing Features
 - Category A tree as defined by BS5837:2012 (Crown canopy)
 - Category B tree as defined by BS5837:2012 (Crown canopy)
 - Category C tree as defined by BS5837:2012 (Crown canopy)
 - Category D tree as defined by BS5837:2012 (Crown canopy)
 - Category E tree as defined by BS5837:2012 (Crown canopy)
 - Category F tree as defined by BS5837:2012 (Crown canopy)
 - Category G tree as defined by BS5837:2012 (Crown canopy)
 - Category H tree as defined by BS5837:2012 (Crown canopy)
 - Category I tree as defined by BS5837:2012 (Crown canopy)
 - Category J tree as defined by BS5837:2012 (Crown canopy)
 - Category K tree as defined by BS5837:2012 (Crown canopy)
 - Category L tree as defined by BS5837:2012 (Crown canopy)
 - Category M tree as defined by BS5837:2012 (Crown canopy)
 - Category N tree as defined by BS5837:2012 (Crown canopy)
 - Category O tree as defined by BS5837:2012 (Crown canopy)
 - Category P tree as defined by BS5837:2012 (Crown canopy)
 - Category Q tree as defined by BS5837:2012 (Crown canopy)
 - Category R tree as defined by BS5837:2012 (Crown canopy)
 - Category S tree as defined by BS5837:2012 (Crown canopy)
 - Category T tree as defined by BS5837:2012 (Crown canopy)
 - Category U tree as defined by BS5837:2012 (Crown canopy)
 - Category V tree as defined by BS5837:2012 (Crown canopy)
 - Category W tree as defined by BS5837:2012 (Crown canopy)
 - Category X tree as defined by BS5837:2012 (Crown canopy)
 - Category Y tree as defined by BS5837:2012 (Crown canopy)
 - Category Z tree as defined by BS5837:2012 (Crown canopy)
- Existing tree to be retained
- Existing hedge to be retained
- Proposed Development
 - Existing tree to be removed
 - Existing hedge to be removed
 - Existing hedge to be kept to accommodate temporary stability safety
 - Over stock fence
 - Over stock panels
 - Substation - Customer compound
 - Substation - TMO compound
 - Substation - Control Room
 - Construction unit
 - Access track
 - Existing Access
 - New Access
 - Proposed Mitigation Planting
 - Valued hedgerow
 - Registered hedgerow
 - Construction Compound
 - Site area
 - Swale
 - DCTV pole
 - Overhead line

Site Plan 1:1000 @ A0

10 0 10 20 30 40 50 60 70 80 90 100m

1:1000



REVISION	DATE	BY	REASON
1	15.08.21	MT	Initial Design
2	15.08.21	SC	Final Design

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

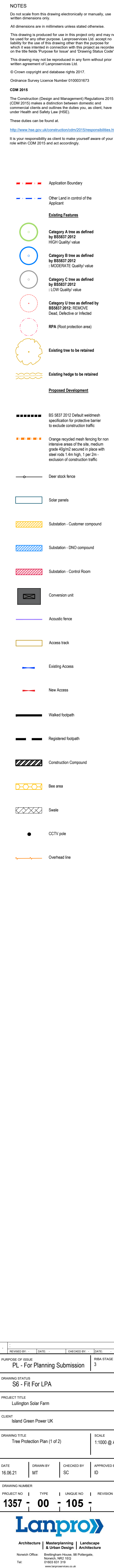
PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

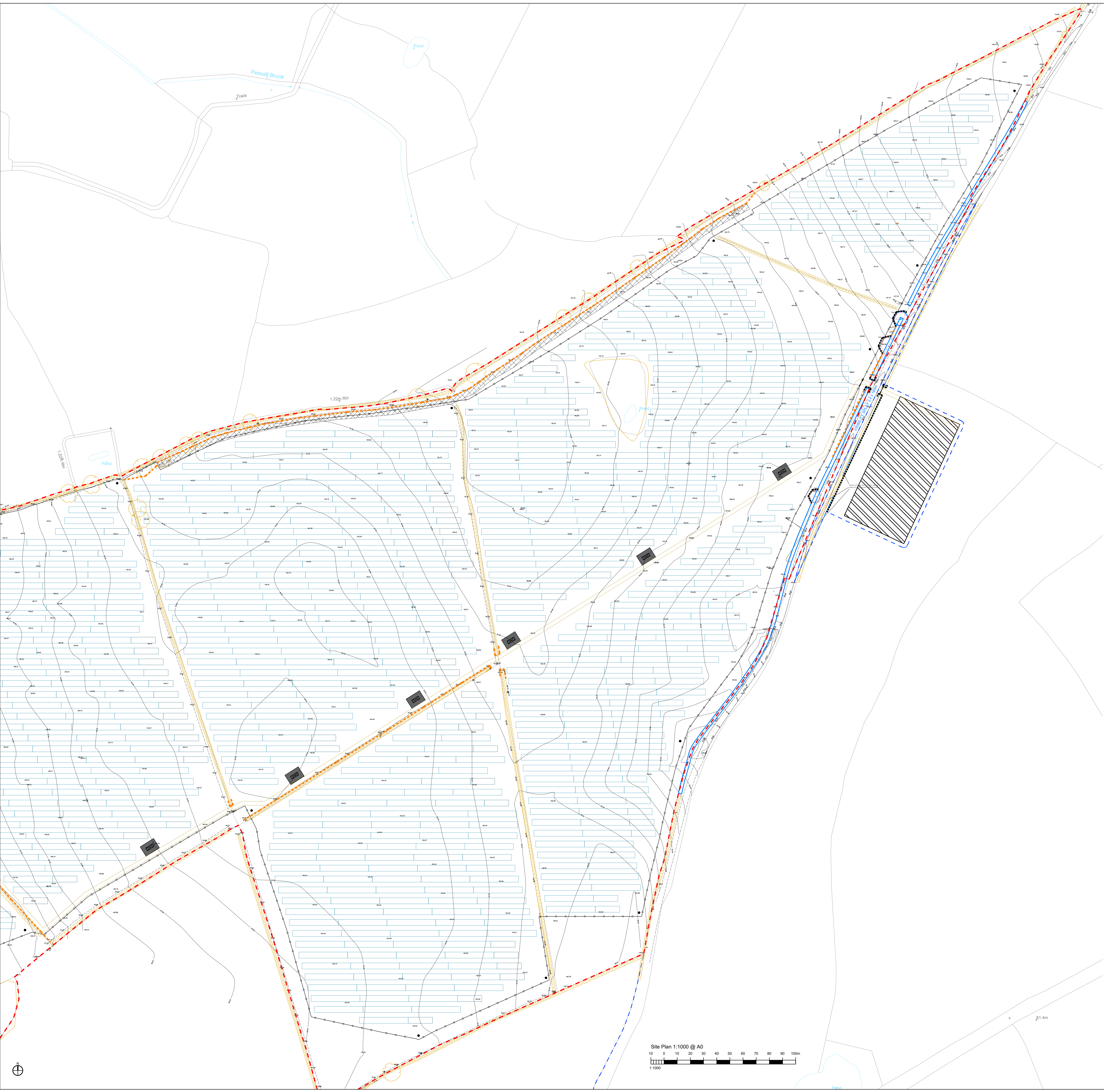
DATE	DESIGNED BY	CHECKED BY	APPROVED BY
15.08.21	MT	SC	D

PROJECT NO.	TYPE	UNIQUE NO.	REVISION
1357 - 00	00	104	

DATE	DESIGNED BY	CHECKED BY</
------	-------------	--------------

Appendix B3 – Tree Protection Plan and Heads of Terms Method Statement





ARBORICULTURAL METHOD STATEMENT (HEADS OF TERMS)

Tree works

All tree works recommended with the proposal will be carried out in accordance with BS 3998:2010 *Tree work - Recommendations* prior to any construction machinery arriving on site. Once completed, installation of protective barriers and temporary ground protection will take place immediately.

Protective Barriers

Protective barriers will be installed in the locations specified on this drawing prior to any works starting on site. There are two types of fencing specified; the default fencing which is required for areas of highest demolition and construction intensity and risk to trees, and the mesh system for less intensively used areas of the site. Where possible the proposed 2m stock fencing (site security fencing) can be utilised for tree protection fencing as it provides a robust permanent protection to vegetation on site. For the avoidance of doubt in this scenario the two forms of specified tree protection fencing should always be used where it protects a greater area of the RPA.

Proposed Swale

An important aspect of the location of the proposed swale in proximity to trees is that its construction follows the current cultivated edge of the agricultural land to ensure appropriate uncultivated field margins where roots are likely to be present are retained in situ. No tracking is to be permitted in this area, construction should be undertaken by a long arm excavator located on the side of the field farthest away from existing trees. In areas where minor encroachment is unavoidable such work should be undertaken in the presence of the arboriculturalist.

Temporary ground protection

Where specified, temporary ground protection will be installed in accordance with this drawing. The intention is to protect roots and soil from potential compaction damage where the installation of a barrier would be impractical for demolition and construction activities. The specification will be suitable to withstand the vehicle of pedestrian loads to be used in these areas - advice should be taken from the arboriculturalist.

Foundation Construction

Not relevant to this project

No-Dig Construction

Not relevant to this project

Underground drainage and services

Drainage and services installation will avoid the root protection area of trees, where this is unavoidable the approach to install will follow NJUG (2007 Volume 4, Issue 2). All manholes must avoid root protection areas entirely.

Approved Excavations and Root Pruning

All excavations within root protection areas will be carried out under arboricultural site supervision. Prior to commencement, the extent of excavations will be marked out by the contractor with spray paint. No excavations will extend beyond these defined areas or the specified depths and the site contractor will be responsible for ensuring all ground workers are made aware of these limits.

Exposed roots will be pruned making a clean cut with a sterilised handsaw, or secateurs to clear roots to the construction depth required. Where small diameter roots occur in clumps these will be retained and moved out of the way of construction where practical. All exposed pruned roots will be immediately wrapped in wet hessian to prevent desiccation and to protect against extreme temperature fluctuations. On completion of the excavations works the hessian will be removed and all pruned roots covered with good quality top soil. No machinery will be permitted within the RPA of the trees during these works.

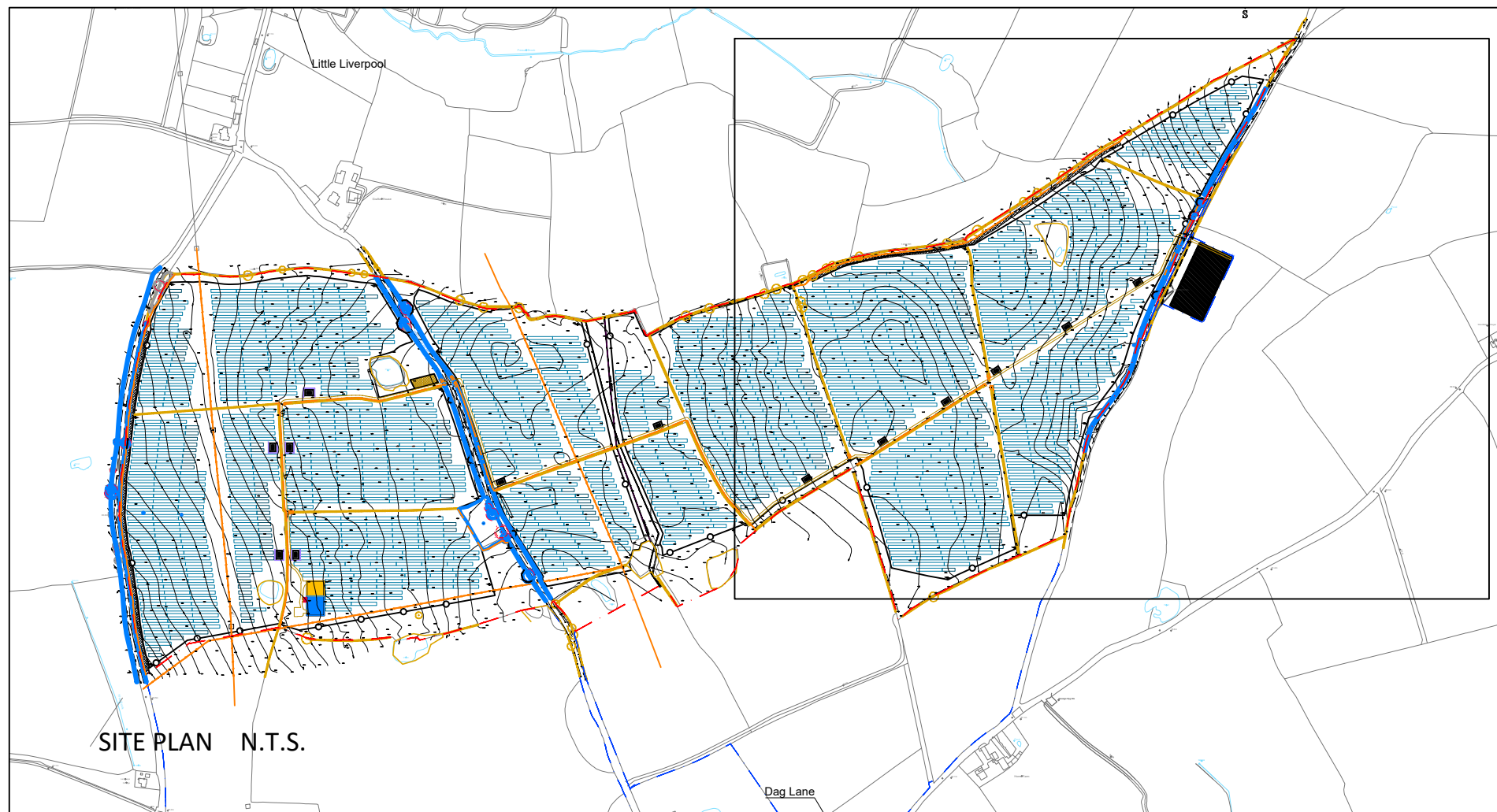
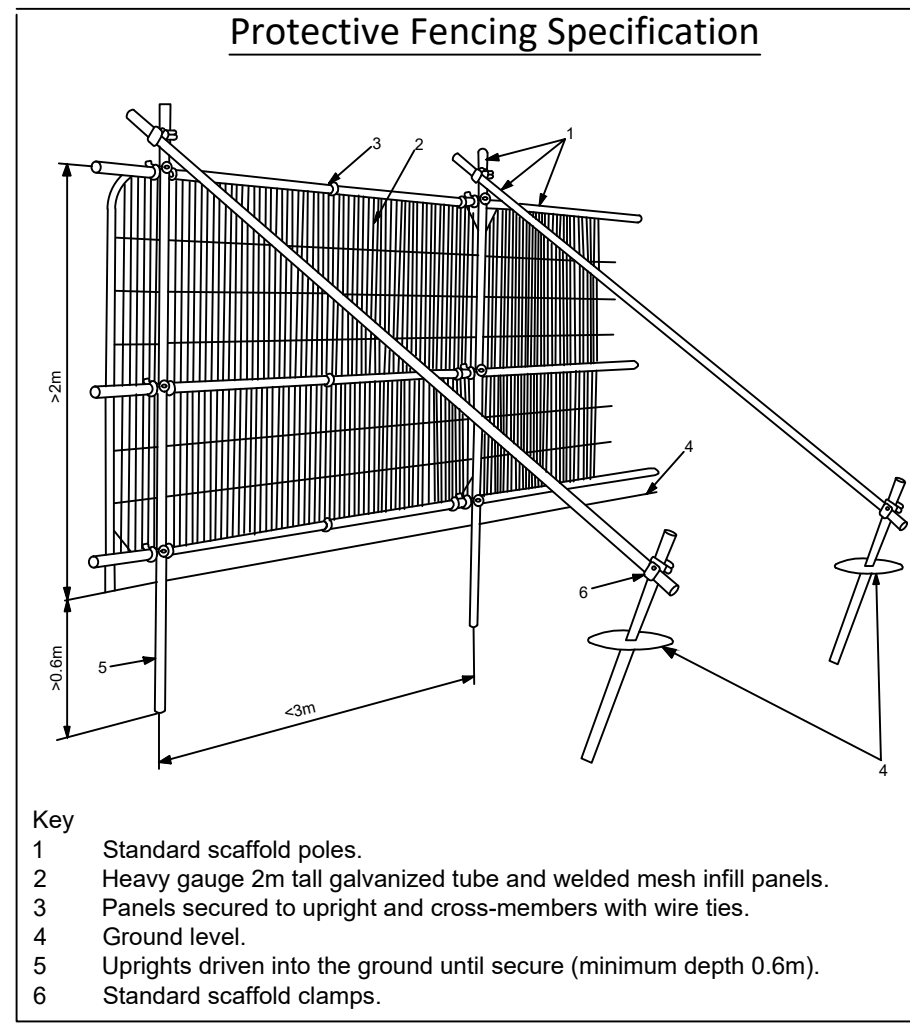
General Tree Protection Measures

- No construction or demolition works will take place within any protection zone identified on this drawing. Barriers and ground protection will remain intact and in position until works on site are completed, no alterations will take place without consulting the project arboriculturalist beforehand
- No chemicals will be used within 3m of a tree, including hazardous material, cement or other toxic materials

Supervision of Works

Once protection measures as specified on this drawing are in place, the project arboriculturalist will be notified and a site visit will take place to approve the installations are fit for purpose. Site operations can commence once this has been approved.

Ongoing site visits by the project arboriculturalist will take place at intervals to ensure that tree protection measures are adhered to for the duration of the project works on site.



NOTES

Do not scale from this drawing electronically or manually, use written dimensions only.

This drawing is produced for use in the project only and may not be used for any other purpose. Lanpropro Ltd shall not be liable for the use of this drawing after the project has been completed. Lanpropro Ltd shall not be liable for the use of this drawing after the project has been completed.

This drawing may not be reproduced in any form without prior written permission of Lanpropro Ltd.

© Crown copyright and database rights 2017.

Ordnance Survey Licence Number 100039313

CSW 2015

The Construction (Design and Management) Regulations 2015 (CDM 2015) require a designer to prepare, develop and maintain a health and safety file for the project. You, as client, have a responsibility to ensure that the project is completed in accordance with the CDM 2015 and all associated regulations.

These details can be found at:

https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/500000/CDM2015-Health-and-Safety-File-Template.pdf

It is your responsibility as client to make yourself aware of your role within CDM 2015 and all associated regulations.

Application Boundary

Other Land in control of the Applicant

Category A trees as defined by BS5837:2012

Category B trees as defined by BS5837:2012

Category C trees as defined by BS5837:2012

Category D trees as defined by BS5837:2012

Category E trees as defined by BS5837:2012

Category F trees as defined by BS5837:2012

Category G trees as defined by BS5837:2012

Category H trees as defined by BS5837:2012

Category I trees as defined by BS5837:2012

Category J trees as defined by BS5837:2012

Category K trees as defined by BS5837:2012

Category L trees as defined by BS5837:2012

Category M trees as defined by BS5837:2012

Category N trees as defined by BS5837:2012

Category O trees as defined by BS5837:2012

Category P trees as defined by BS5837:2012

Category Q trees as defined by BS5837:2012

Category R trees as defined by BS5837:2012

Category S trees as defined by BS5837:2012

Category T trees as defined by BS5837:2012

Category U trees as defined by BS5837:2012

Category V trees as defined by BS5837:2012

Category W trees as defined by BS5837:2012

Category X trees as defined by BS5837:2012

Category Y trees as defined by BS5837:2012

Category Z trees as defined by BS5837:2012

Category AA trees as defined by BS5837:2012

Category AB trees as defined by BS5837:2012

Category AC trees as defined by BS5837:2012

Category AD trees as defined by BS5837:2012

Category AE trees as defined by BS5837:2012

Category AF trees as defined by BS5837:2012

Category AG trees as defined by BS5837:2012

Category AH trees as defined by BS5837:2012

Category AI trees as defined by BS5837:2012

Category AJ trees as defined by BS5837:2012

Category AK trees as defined by BS5837:2012

Category AL trees as defined by BS5837:2012

Category AM trees as defined by BS5837:2012

Category AN trees as defined by BS5837:2012

Category AO trees as defined by BS5837:2012

Category AP trees as defined by BS5837:2012

Category AQ trees as defined by BS5837:2012

Category AR trees as defined by BS5837:2012

Category AS trees as defined by BS5837:2012

Category AT trees as defined by BS5837:2012

Category AU trees as defined by BS5837:2012

Category AV trees as defined by BS5837:2012

Category AW trees as defined by BS5837:2012

Category AX trees as defined by BS5837:2012

Category AY trees as defined by BS5837:2012

Category AZ trees as defined by BS5837:2012

Category BA trees as defined by BS5837:2012

Category BB trees as defined by BS5837:2012

Category BC trees as defined by BS5837:2012

Category BD trees as defined by BS5837:2012

Category BE trees as defined by BS5837:2012

Category BF trees as defined by BS5837:2012

Category BG trees as defined by BS5837:2012

Category BH trees as defined by BS5837:2012

Category BI trees as defined by BS5837:2012

Category BJ trees as defined by BS5837:2012

Category BK trees as defined by BS5837:2012

Category BL trees as defined by BS5837:2012

Category BM trees as defined by BS5837:2012

Category BN trees as defined by BS5837:2012

Category BO trees as defined by BS5837:2012

Category BP trees as defined by BS5837:2012

Category BQ trees as defined by BS5837:2012

Category BR trees as defined by BS5837:2012

Category BS trees as defined by BS5837:2012

Category BT trees as defined by BS5837:2012

Category BU trees as defined by BS5837:2012

Category BV trees as defined by BS5837:2012

Category BW trees as defined by BS5837:2012

Category BX trees as defined by BS5837:2012

Category BY trees as defined by BS5837:2012

Category BZ trees as defined by BS5837:2012

Category CA trees as defined by BS5837:2012

Category CB trees as defined by BS5837:2012

Category CC trees as defined by BS5837:2012

Category CD trees as defined by BS5837:2012

Category CE trees as defined by BS5837:2012

Category CF trees as defined by BS5837:2012

Category CG trees as defined by BS5837:2012

Category CH trees as defined by BS5837:2012

Category CI trees as defined by BS5837:2012

Category CJ trees as defined by BS5837:2012

Category CK trees as defined by BS5837:2012

Category CL trees as defined by BS5837:2012

Category CM trees as defined by BS5837:2012

Category CN trees as defined by BS5837:2012

Category CO trees as defined by BS5837:2012

Category CP trees as defined by BS5837:2012

Category CQ trees as defined by BS5837:2012

Category CR trees as defined by BS5837:2012

Category CS trees as defined by BS5837:2012

Category CT trees as defined by BS5837:2012

Category CU trees as defined by BS5837:2012

Category CV trees as defined by BS5837:2012

Category CW trees as defined by BS5837:2012

Category CX trees as defined by BS5837:2012

Category CY trees as defined by BS5837:2012

Category CZ trees as defined by BS5837:2012

Category DA trees as defined by BS5837:2012

Category DB trees as defined by BS5837:2012

Category DC trees as defined by BS5837:2012

Category DD trees as defined by BS5837:2012

Category DE trees as defined by BS5837:2012

Category DF trees as defined by BS5837:2012

Category DG trees as defined by BS5837:2012

Category DH trees as defined by BS5837:2012

Category DI trees as defined by BS5837:2012

Category DJ trees as defined by BS5837:2012

Category DK trees as defined by BS5837:2012

Category DL trees as defined by BS5837:2012

Category DM trees as defined by BS5837:2012

Category DN trees as defined by BS5837:2012

Category DO trees as defined by BS5837:2012

Category DP trees as defined by BS5837:2012

Category DQ trees as defined by BS5837:2012

Category DR trees as defined by BS5837:2012

Category DS trees as defined by BS5837:2012

Category DT trees as defined by BS5837:2012

Category DU trees as defined by BS5837:2012

Category DV trees as defined by BS5837:2012

Category DW trees as defined by BS5837:2012

Category DX trees as defined by BS5837:2012

Category DY trees as defined by BS5837:2012

Category DZ trees as defined by BS5837:2012

Category EA trees as defined by BS5837:2012

Category EB trees as defined by BS5837:2012

Category EC trees as defined by BS5837:2012

Category ED trees as defined by BS5837:2012

Category EE trees as defined by BS5837:2012

Category EF trees as defined by BS5837:2012

Category EG trees as defined by BS5837:2012

Category EH trees as defined by BS5837:2012

Category EI trees as defined by BS5837:2012

Category EJ trees as defined by BS5837:2012

Category EK trees as defined by BS5837:2012

Category EL trees as defined by BS5837:2012

Category EM trees as defined by BS5837:2012

Category EN trees as defined by BS5837:2012

Category EO trees as defined by BS5837:2012

Category EP trees as defined by BS5837:2012

Category EQ trees as defined by BS5837:2012

Category ER trees as defined by BS5837:2012

Category ES trees as defined by BS5837:2012

Category ET trees as defined by BS5837:2012

Category EU trees as defined by BS5837:2012

Category EV trees as defined by BS5837:2012

Category EW trees as defined by BS5837:2012

Category EX trees as defined by BS5837:2012

Category EY trees as defined by BS5837:2012

Category EZ trees as defined by BS5837:2012

Category FA trees as defined by BS5837:2012

Category FB trees as defined by BS5837:2012

Category FC trees as defined by BS5837:2012

Category FD trees as defined by BS5837:2012

Category FE trees as defined by BS5837:2012

Category FF trees as defined by BS5837:2012

Category FG trees as defined by BS5837:2012

Category FH trees as defined by BS5837:2012

Category FI trees as defined by BS5837:2012

Category FJ trees as defined by BS5837:2012

Category FK trees as defined by BS5837:2012

Category FL trees as defined by BS5837:2012

Category FM trees as defined by BS5837:2012

Category FN trees as defined by BS5837:2012

Category FO trees as defined by BS5837:2012

Category FP trees as defined by BS5837:2012

Category FQ trees as defined by BS5837:2012

Category FR trees as defined by BS5837:2012

Category FS trees as defined by BS5837:2012

Category FT trees as defined by BS5837:2012

Category FU trees as defined by BS5837:2012

Category FV trees as defined by BS5837:2012

Category FW trees as defined by BS5837:2012

Category FX trees as defined by BS5837:2012

Category FY trees as defined by BS5837:2012

Category FZ trees as defined by BS5837:2012

Category GA trees as defined by BS5837:2012

Category GB trees as defined by BS5837:2012

Category GC trees as defined by BS5837:2012

Category GD trees as defined by BS5837:2012

Category GE trees as defined by BS5837:2012

Category GF trees as defined by BS5837:2012

Category GG trees as defined by BS5837:2012

Category GH trees as defined by BS5837:2012

Category GI trees as defined by BS5837:2012

Category GJ trees as defined by BS5837:2012

Category GK trees as defined by BS5837:2012

Category GL trees as defined by BS5837:2012

Category GM trees as defined by BS5837:2012

Category GN trees as defined by BS5837:2012

Category GO trees as defined by BS5837:2012

Category GP trees as defined by BS5837:2012

Category GQ trees as defined by BS5837:2012

Category GR trees as defined by BS5837:2012

Category GS trees as defined by BS5837:2012

Category GT trees as defined by BS5837:2012

Category GU trees as defined by BS5837:2012

Category GV trees as defined by BS5837:2012

Category GW trees as defined by BS5837:2012

Category GX trees as defined by BS5837:2012

Category GY trees as defined by BS5837:2012

Category GZ trees as defined by BS5837:2012

Category HA trees as defined by BS5837:2012

Category HB trees as defined by BS5837:2012

Category HC trees as defined by BS5837:2012

Category HD trees as defined by BS5837:2012

Category HE trees as defined by BS5837:2012

Category HF trees as defined by BS5837:2012

Category HG trees as defined by BS5837:2012

Category HH trees as defined by BS5837:2012

Category HI trees as defined by BS5837:2012

Category HJ trees as defined by BS5837:2012

Category HK trees as defined by BS5837:2012

Category HL trees as defined by BS5837:2012

Category HM trees as defined by BS5837:2012

Category HN trees as defined by BS5837:2012

Category HO trees as defined by BS5837:2012

Category HP trees as defined by BS5837:2012

Category HQ trees as defined by BS5837:2012

Category HR trees as defined by BS5837:2012

Category HS trees as defined by BS5837:2012

Category HT trees as defined by BS5837:2012

Category HU trees as defined by BS5837:2012

Category HV trees as defined by BS5837:2012

Category HW trees as defined by BS5837:2012

Category HX trees as defined by BS5837:2012

Category HY trees as defined by BS5837:2012

Category HZ trees as defined by BS5837:2012

Category IA trees as defined by BS5837:2012

Category IB trees as defined by BS5837:2012

Category IC trees as defined by BS5837:2012

Category ID trees as defined by BS5837:2012

Category IE trees as defined by BS5837:2012

Category IF trees as defined by BS5837:2012

Category IG trees as defined by BS5837:2012

Category IH trees as defined by BS5837:2012

Category II trees as defined by BS5837:2012

Category IJ trees as defined by BS5837:2012

Category IK trees as defined by BS5837:2012

Category IL trees as defined by BS5837:2012

Category IM trees as defined by BS5837:2012

Category IN trees as defined by BS5837:2012

Category IO trees as defined by BS5837:2012

Category IP trees as defined by BS5837:2012

Category IQ trees as defined by BS5837:2012

Category IR trees as defined by BS5837:2012

Category IS trees as defined by BS5837:2012

Category IT trees as defined by BS5837:2012

Category IU trees as defined by BS5837:2012

Category IV trees as defined by BS5837:2012

Category IW trees as defined by BS5837:2012

Category IX trees as defined by BS5837:2012

Category IY trees as defined by BS5837:2012

Category IZ trees as defined by BS5837:2012

Category JA trees as defined by BS5837:2012

Category JB trees as defined by BS5837:2012

Category JC trees as defined by BS5837:2012

Category JD trees as defined by BS5837:2012

Category JE trees as defined by BS5837:2012

Category JF trees as defined by BS5837:2012

Category JG trees as defined by BS5837:2012

Category JH trees as defined by BS5837:2012

Category JI trees as defined by BS5837:2012

Category JJ trees as defined by BS5837:2012

Category JK trees as defined by BS5837:2012

Category JL trees as defined by BS5837:2012

Category JM trees as defined by BS5837:2012

Category JN trees as defined by BS5837:2012

Category JO trees as defined by BS5837:2012

Category JP trees as defined by BS5837:2012

Category JQ trees as defined by BS5837:2012

Category JR trees as defined by BS5837:2012

Category JS trees as defined by BS5837:2012

Category JT trees as defined by BS5837:2012

Category JU trees as defined by BS5837:2012

Category JV trees as defined by BS5837:2012

Category JW trees as defined by BS5837:2012

Category JX trees as defined by BS5837:2012

Category JY trees as defined by BS5837:2012

Category JZ trees as defined by BS5837:2012

Category KA trees as defined by BS5837:2012

Category KB trees as defined by BS5837:2012

Category KC trees as defined by BS5837:2012

Category KD trees as defined by BS5837:2012

Category KE trees as defined by BS5837:2012

Category KF trees as defined by BS5837:2012

Category KG trees as defined by BS5837:2012

Category KH trees as defined by BS5837:2012

Category KI trees as defined by BS5837:2012

Category KJ trees as defined by BS5837:2012

Category KK trees as defined by BS5837:2012

Category KL trees as defined by BS5837:2012

Category KM trees as defined by BS5837:2012

Category KN trees as defined by BS5837:2012

Category KO trees as defined by BS5837:2012

Category KP trees as defined by BS5837:2012

Category KQ trees as defined by BS5837:2012

Category KR trees as defined by BS5837:2012

Category KS trees as defined by BS5837:2012

Category KT trees as defined by BS5837:2012

Category KU trees as defined by BS5837:2012

Category KV trees as defined by BS5837:2012

Category KW trees as defined by BS5837:2012

Category KX trees as defined by BS5837:2012

Category KY trees as defined by BS5837:2012

Category KZ trees as defined by BS5837:2012

Category LA trees as defined by BS5837:2012

Category LB trees as defined by BS5837:2012

Category LC trees as defined by BS5837:2012

Category LD trees as defined by BS5837:2012

Category LE trees as defined by BS5837:2012

Category LF trees as defined by BS5837:2012

Category LG trees as defined by BS5837:2012

Category LH trees as defined by BS5837:2012

Category LI trees as defined by BS5837:2012

Category LJ trees as defined by BS5837:2012

Category LK trees as defined by BS5837:2012

Category LL trees as defined by BS5837:2012

Category LM trees as defined by BS5837:2012

Category LN trees as defined by BS5837:2012

Category LO trees as defined by BS5837:2012

Category LP trees as defined by BS5837:2012

Category LQ trees as defined by BS5837:2012

Category LR trees as defined by BS5837:2012

Category LS trees as defined by BS5837:2012

Category LT trees as defined by BS5837:2012

Category LU trees as defined by BS5837:2012

Category LV trees as defined by BS5837:2012

Category LW trees as defined by BS5837:2012

Category LX trees as defined by BS5837:2012

Category LY trees as defined by BS5837:2012

Category LZ trees as defined by BS5837:2012

Category MA trees as defined by BS5837:2012

Category MB trees as defined by BS5837:2012

Category MC trees as defined by BS5837:2012

Category MD trees as defined by BS5837:2012

Category ME trees as defined by BS5837:2012

Category MF trees as defined by BS5837:2012

Category MG trees as defined by BS5837:2012

Category MH trees as defined by BS5837:2012

Category MI trees as defined by BS5837:2012

Category MJ trees as defined by BS5837:2012

Category MK trees as defined by BS5837:2012

Category ML trees as defined by BS5837:2012

Category MM trees as defined by BS5837:2012

Category MN trees as defined by BS5837:2012

Category MO trees as defined by BS5837:2012

Category MP trees as defined by BS5837:2012

Category MQ trees as defined by BS5837:2012

Category MR trees as defined by BS5837:2012

Category MS trees as defined by BS5837:2012

Category MT trees as defined by BS5837:2012

Category MU trees as defined by BS5837:2012

Category MV trees as defined by BS5837:2012

Category MW trees as defined by BS5837:2012

Category MX trees as defined by BS5837:2012

Category MY trees as defined by BS5837:2012

Category MZ trees as defined by BS5837:2012

Category NA trees as defined by BS5837:2012

Category NB trees as defined by BS5837:2012

Category NC trees as defined by BS5837:2012

Category ND trees as defined by BS5837:2012

Category NE trees as defined by BS5837:2012

Category NF trees as defined by BS5837:2012

Category NG trees as defined by BS5837:2012

Category NH trees as defined by BS5837:2012

Category NI trees as defined by BS5837:2012

Category NJ trees as defined by BS5837:2012

Category NK trees as defined by BS5837:2012

Category NL trees as defined by BS5837:2012

Category NM trees as defined by BS5837:2012

Category NN trees as defined by BS5837:2012

Category NO trees as defined by BS5837:2012

Category NP trees as defined by BS5837:2012

Category NQ trees as defined by BS5837:2012

Category NR trees as defined by BS5837:2012

Category NS trees as defined by BS5837:2012

Category NT trees as defined by BS5837:2012

Category NU trees as defined by BS5837:2012

Category NV trees as defined by BS5837:2012

Category NW trees as defined by BS5837:2012

Category NX trees as defined by BS5837:2012

Category NY trees as defined by BS5837:2012

Category NZ trees as defined by BS5837:2012

Category OA trees as defined by BS5837:2012

Category OB trees as defined by BS5837:2012

Category OC trees as defined by BS5837:2012

Category OD trees as defined by BS5837:2012

Category OE trees as defined by BS5837:2012

Category OF trees as defined by BS5837:2012

Category OG trees as defined by BS5837:2012

Category OH trees as defined by BS5837:2012

Category OI trees as defined by BS5837:2012

Category OJ trees as defined by BS5837:2012

Category OK trees as defined by BS5837:2012

Category OL trees as defined by BS5837:2012

Category OM trees as defined by BS5837:2012

Category ON trees as defined by BS5837:2012

Category OO trees as defined by BS5837:2012

Category OP trees as defined by BS5837:2012

Category OQ trees as defined by BS5837:2012

Category OR trees as defined by BS5837:2012

Category OS trees as defined by BS5837:2012

Category OT trees as defined by BS5837:2012

Category OU trees as defined by BS5837:2012

Category OV trees as defined by BS5837:2012

Category OW trees as defined by BS5837:2012

Category OX trees as defined by BS5837:2012

Category OY trees as defined by BS5837:2012

Category OZ trees as defined by BS5837:2012

Category PA trees as defined by BS5837:2012

Category PB trees as defined by BS5837:2012

Category PC trees as defined by BS5837:2012

Category PD trees as defined by BS5837:2012

Category PE trees as defined by BS5837:2012

Category PF trees as defined by BS5837:2012

Category PG trees as defined by BS5837:2012

Category PH trees as defined by BS5837:2012

Category PI trees as defined by BS5837:2012

Category PJ trees as defined by BS5837:2012

Category PK trees as defined by BS5837:2012

Category PL trees as defined by BS5837:2012

Category PM trees as defined by BS5837:2012

Category PN trees as defined by BS5837:2012

Category PO trees as defined by BS5837:2012

Category PP trees as defined by BS5837:2012

Category PQ trees as defined by BS5837:2012

Category PR trees as defined by BS5837:2012

Category PS trees as defined by BS5837:2012

Category PT trees as defined by BS5837:2012

Category PU trees as defined by BS5837:2012

Category PV trees as defined by BS5837:2012

Category PW trees as defined by BS5837:2012

Category PX trees as defined by BS5837:2012

Category PY trees as defined by BS5837:2012

Category PZ trees as defined by BS5837:2012

Category QA trees as defined by BS5837:2012

Category QB trees as defined by BS5837:2012

Category QC trees as defined by BS5837:2012

Category QD trees as defined by BS5837:2012

Category QE trees as defined by BS5837:2012

Category QF trees as defined by BS5837:2012

Category QG trees as defined by BS5837:2012

Category QH trees as defined by BS5837:2012

Category QI trees as defined by BS5837:2012

Category QJ trees as defined by BS5837:2012

Category QK trees as defined by BS5837:2012

Category QL trees as defined by BS5837:2012

Category QM trees as defined by BS5837:2012

Category QN trees as defined by BS5837:2012

Category QO trees as defined by BS5837:2012

Category QP trees as defined by BS5837:2012

Category QQ trees as defined by BS5837:2012

Category QR trees as defined by BS5837:2012

Category QS trees as defined by BS5837:2012

Category QT trees as defined by BS5837:2012

Category QU trees as defined by BS5837:2012

Category QV trees as defined by BS5837:2012

Category QW trees as defined by BS5837:2012

Category QX trees as defined by BS5837:2012

Category QY trees as defined by BS5837:2012

Category QZ trees as defined by BS5837:2012

Category RA trees as defined by BS5837:2012

Category RB trees as defined by BS5837:2012

Category RC trees as defined by BS5837:2012

Category RD trees as defined by BS5837:2012

Category RE trees as defined by BS5837:2012

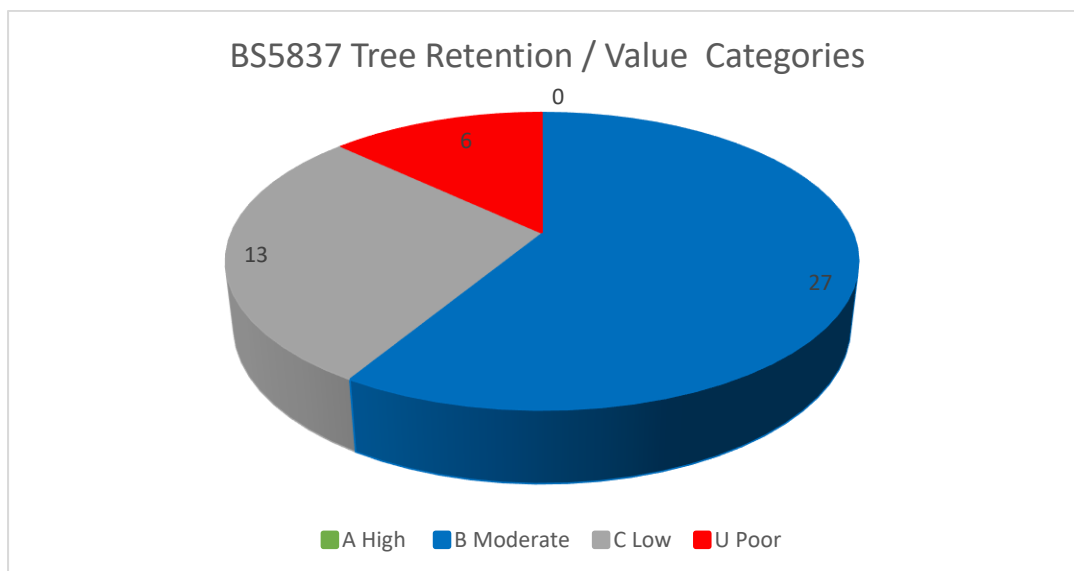
Category RF trees as defined by BS5837:2012

Category RG trees as defined by BS5837:2012

Appendix C – Tree Data Analysis

BS5837 (2012) quality and value of the tree population

A total of thirty two individual trees, one group, twelve hedges and one woodland have been assessed:



Life Stage

