



Arboricultural Impact Assessment

Butterfly / Glöyn Byw Solar Farm

Applicant	RWE Renewables UK
Agent	AXIS P.E.D LTD
Site Address	South of Wrexham, adjacent to the A483, between Johnstown to the west and Bangor on Dee in the East and north of the B5426.
Arboricultural Consultant	Mike Wood <i>Dip Arb. TechArbor A</i>
Local Authority	Wrexham County Borough Council
Proposal	New solar energy generating station, associated on-site Battery Energy Storage System (BESS), access tracks and substation.
Survey Date	August and September 2023, May 2025
Report Date	9 th September 2025
Report Reference	250904-1.4-AIA-BSP-T21-MW



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Appendices

- Appendix A: Tree Schedule & Tree Protection Retention and Removal Plan (East)
- Appendix B: Tree Schedule & Tree Protection Retention and Removal Plan (Central)
- Appendix C: Tree Schedule & Tree Protection Retention and Removal Plan (West)
- Appendix D: Tree Protection Measures



Executive Summary

- The Applicant is seeking planning consent for the installation and operation of a solar photovoltaic electricity generating station (or 'solar farm') comprising ground-mounted photovoltaic solar arrays and battery-based electricity storage containers together with a 132 kV substation, grid connection cable, inter-array area cabling, Site accesses, internal access tracks, security measures, access gates, other ancillary infrastructure and landscaping and biodiversity enhancements. The solar farm would have an export capacity of up to 99.9 MW.
- This report provides an assessment of the impact of trees and hedgerows and the proposal. A full detailed tree survey to inform this assessment was undertaken during August and September 2023, with further survey work in May 2025. The survey was undertaken in accordance with BS5837:2012 *Trees in relation to design demolition and construction recommendations* guidelines. The survey was divided into three separate sites (east, west and central arrays).
- Across the 3 sites, 311 individual trees, 82 tree groups and 101 hedgerows and 1 woodland which are considered to be those which could be impacted by the proposal, have been surveyed and recorded as part of this assessment. The East site includes 73 trees, 25 tree groups and 16 hedges. The west site includes 68 trees, 6 tree groups and 39 hedges. The Central site includes 170 trees, 52 tree groups (including a woodland group) and 46 hedges. The report was undertaken following BS5837:2012 *Trees in Relation to design, Demolition and Construction – Recommendations guidelines*.
- In accordance with BS5837:2012 tree retention categories, the following retention categories have been recorded (note: hedgerows have not been assigned a retention category, in accordance with BS5837:2012 guidelines). East site: 7 category A, 82 category B, 5 category C, 4 category U. West site: 18 category A, 73 category B, 18 category C, 4 category U. Central site: 24 category A, 164 category B, 32 category C, 6 category U.
- The design team have used the Tree Constraints Plans, issued following the tree survey to inform the design and as a result, none of the individual trees will need to be removed to facilitate the proposal. Only sections of hedgerows and a section of G029 will need to be removed to facilitate access routes, the perimeter fence and proposed infrastructure and landscaping. Three hedge sections at the east site, 14 hedge sections at the central



site and 6 sections of hedgerow and a section of G029 at the west site are proposed for removal. Several trees around visibility splays may also need crown lifting over the highway to 5.2m. These works are illustrated on the Tree Protection, Retention and Removal Plans at Appendix C and actions and recommendations are listed in the Tree Schedules in appendices A, B & C.

- Tree protection measures have been set out where considered appropriate to ensure the impact upon retained trees from construction related activity is of low risk. This does not cover hedgerows, as these features are generally managed at a reduced scale with limited root spread, due to their small diameter stems and tree protection barriers are not considered necessary, except in areas of risk, such as where an access route cuts through.

1.0 Qualifications and Experience

- 1.0.1 The survey and report have been prepared by Mike Wood *Dip Arb. TechArborA*, Principal Arboricultural Consultant of Tree 21 Limited. Mike Wood has 25 years' experience in arboriculture, with over 19 years' experience in providing BS5837 surveys and reports, has a L4 Diploma in Arboriculture, is a certified LANTRA Professional Tree Inspector and a member of the Arboricultural Association.

2.0 Introduction

- 2.0.1 This report and appendices have been produced to assess the impact on trees and a proposal for planning consent for the installation and operation of a solar photovoltaic electricity generating station (or solar farm) comprising ground-mounted photovoltaic solar arrays and battery-based electricity storage containers together with a 132 kV substation, grid connection cable, inter-array area cabling, Site accesses, internal access tracks, security measures, access gates, other ancillary infrastructure and landscaping and biodiversity enhancements. The solar farm would have an export capacity of up to 99.9 MW.
- 2.0.2 The tree survey was undertaken in accordance with BS5837:2012 recommendations. The position of trees, groups and hedges have been plotted using aerial imagery and GPS, within a mobile Android device. Positions of the tree features are therefore indicative; however, the data collection methods are considered suitable to inform this assessment.



- 2.0.3 The Tree Schedules at Appendices A, B & C provides the tree data and proposed action for each tree/group/hedge record. The Protection, Retention and Removal Plan (TPRRP) appended to the schedules illustrates the proposed layout, temporary tree protection barriers (where considered appropriate), hedge and group sections to be removed and trees to be pruned/crown lifted to facilitate the visibility junction splays at the site access points. The plans include the position of the trees, crown spread in four cardinal directions, retention category and Root Protection Areas (RPA) in accordance with BS5837:2012.

3.0 Scope

- 3.0.1 The tree survey was undertaken during August and September 2023, further to instruction from AXIS P.E.D LTD on behalf of the client. Further survey work was undertaken in May 2025. The resulting survey data was then used to produce Tree Schedules and a Tree Constraints Plan, which the design team reviewed to inform the layout. The resulting Tree Protection, Retention and Removal Plans (Appendix A,B,C) are the Tree Constraints Plan, with the final design layout overlaid, illustrating areas of hedge and group removal and proposed protective measures, to be installed throughout the development stage of this project.

3.1 Purpose of the Report

- 3.1.1 This assessment is intended to report on any impact upon trees, evaluating the impact of above ground parts (stem and branches), expressed as crown spread and below ground parts (roots), which is expressed as the Root Protection Area (RPA). The report also considers the wider impact on the landscape and post development/long-term sustainability between the proposal and the landscape.
- 3.1.2 The report, and the accompanying information, is supplied to assess the impact on trees from the enabling works and installation and construction of the proposal, with the following areas as a framework:
- Any trees, hedges, groups or parts to be removed to facilitate the proposal.
 - Any tree pruning work to facilitate the proposal.
 - Identify suitable protection measures for retained trees throughout the construction of the proposal, including enabling works.



- Provision of a “Heads of Terms” Arboricultural Method Statement to provide information on how trees will be managed through the process.

3.2 Documents Provided to Tree 21 Limited

- Location Plan
- Red Line boundary
- Proposed Layout

3.3 Limitations

3.3.1 This report is a preliminary assessment from ground level and observations have been made solely from visual inspection for the purposes of assessment in terms relevant to planning and development. Only hand tools have been used which may include binoculars, nylon mallet, laser measure, compass, height measuring device and fine manual metal probe to aid tree assessment where considered necessary during the survey. No detailed internal decay detection devices have been used in assessing trunk condition.

3.3.2 The conclusions relate to conditions found at the time of the survey. The recommendations contained within this report are valid for a period of one year only. Any significant alteration to the site that may affect the tree or have a bearing on the planning implications (including level changes, hydrological changes, extreme climatic events, or other site works) will necessitate a re-assessment of the trees and the site.

3.3.3 The plotted positions of trees are indicative only. Trees, groups and hedgerows have been plotted by eye, using a combination of aerial imagery and Android tablet-based GPS in specialist Tree Management Software (OTISS).

3.3.4 It should be noted that this survey is not a tree safety inspection. It is carried out to inform the planning process. Where clear and obvious hazards have been observed, these have been addressed in Appendix A - Tree Schedule. A full assessment of the levels of risk posed by trees would be informed by considering site use together with hazards present within the tree. Changes in site use are likely to occur during, and result from, the proposed development. In the light of these changes, regular tree risk assessments are advised.



4.0 Site Visit and Tree Assessment Methodology

4.0.1 A site survey was undertaken during August and September 2023, with further survey work in May 2025. The survey took place from ground level aided by the Visual Tree Assessment method (Mattheck and Breloer, 1994), in accordance with BS5837:2012 guidelines. The data was recorded in specialist tree data capture software.

4.0.2 Weather conditions during the survey were dry with adequate light and visibility to observe the trees and surrounding environs.

4.0.3 While this appraisal is not a tree risk assessment it nonetheless considers observed structural defects of the inspected tree, where applicable, to inform conclusions with regard to long term management.

4.0.4 Recommendations have been made, where considered appropriate to address immediate tree hazards/or to manage the trees within the context of the site becoming a work area and a development site with consideration to long term retention.

4.1 Data Collection

4.1.1 Data collected includes a designated tree (T), group (G), Hedgerow (H) or Woodland (W) number, tree species, height, number of stems, diameter at 1.5m above ground level, crown clearance (height of periphery of crown spread above ground level), branch spread (to N, S, E and W), age class, physiological condition, useful life expectancy tree condition, site notes (where this has a bearing on the present or future health or structural condition of the tree), preliminary management recommendations, and tree retention category in accordance with BS5837:2012.

4.2 Presentation of the Data Collected

4.2.1 Data collected during the Tree Survey is presented in the Tree Schedule table in Appendix A in accordance with BS5837:2012 *Trees in Relation to Design, Demolition and Construction – Recommendations*.

4.2.2 The tree survey data is provided in the Tree Schedules (Appendix A, B, C) and illustrated on the Tree Protection, Retention & Plan, provided at the end of each Tree



Schedule. The Tree Protection, Retention and Removal Plan provides the proposals, as a layer over the Tree Constraints Plans and provides illustrative information on tree removal, tree retention and any recommended tree protection. All other relevant data are presented within the main body of this assessment.

5.0 Site Description and Context

5.0.1 The site is made up of agricultural field parcels, which are either arable or grazing parcels. Most are dissected by hedgerows. There are some areas of woodland at the site peripheries at the central site. In general, the sites are relatively flat, with minor level changes throughout.

6.0 Summary of Tree Data

6.0.1 Table 1 below summarises the recorded tree retention categories of trees and groups across the site (excludes hedgerows, which do not require retention categories).

6.0.2 Table 2 summarises the Life Stages of trees, groups and hedgerows across the three sites. Note – all veteran life stages, relate to individual trees only (not groups or hedgerows).

Table 1: Provides information on the tree retention categories across the site in accordance with BS5837:2012 (excludes hedgerows).

Retention Category	No. inspections (East)	No. inspections (Central)	No. inspections (West)
A	7	24	18
B	82	164	73
C	5	32	18
U	4	6	4
Total	98	226	113

**Table 2: Provides information on the life stages across the 3 sites.**

Life Stage	No. inspections (East)	No. inspections (Central)	No. inspections (West)
Dead	8	1	4
Early Mature	25	54	12
Mature	104	198	74
Over/Late Mature	12	9	3
Semi Mature	4	3	1
Veteran	7	3	7
Total	160	268	101

7.0 Arboricultural Constraints

7.0.1 The TPRRP, (Appendices A, B, C) illustrate the Root Protection Area (RPA) for the trees identified in the Tree Data Schedule (Appendix A). This represents the minimum area in m² which should ideally be left undisturbed around retained trees. The TCP also shows a representation of the crown spread of each tree measured in four cardinal directions. The RPA has been calculated in accordance with BS5837:2012 Trees in Relation to Design, Demolition & Construction – Recommendations.

8.0 Ancient & Semi Natural Woodland and Restored Ancient Woodland

8.0.1 Following a review of DataMapWales six of the groups and woodlands recorded within the central area (Appendix B) have been noted as ASNW or RAW. The table below lists these woodland groups with notes on how they will be managed throughout the development of the project.

Table 3: List of Woodland Groups listed as RAW or ASNW throughout the site

Designation	Group/Woodland Number within this Assessment	Impact and Management
G179	RAW	No Impact – barriers to be installed as shown on the plans.
G180	RAW	No Impact – barriers to be installed as shown on the plans.



G182	RAW	No Impact – barriers to be installed as shown on the plans.
G200	RAW	No Impact – barriers to be installed as shown on the plans.
W275	RAW	No Impact – barriers to be installed as shown on the plans.
G358	ASNW	No Impact – barriers to be installed as shown on the plans.

8.0.2 Stand-off/protection zones have been applied in accordance with standing advice in Wales and BS5837:2012, where considered appropriate. These Root Protection Areas are considered suitable for the designations listed above, in the context of this project.

9.0 Parts of Hedgerows and Groups Proposed for Removal

9.0.1 Parts of hedgerows and G029, which are proposed for removal are listed in the Tree Schedules and illustrated on the Tree Protection Retention & Removal Plans. The table below, summarises the proposed removal at each site.

Table 4: Provides Information on Tree & hedge Groups which Require Partial Removal to Facilitate the Design Layout

East Site	Central Site	West Site
Swathe through H427 to facilitate access perimeter fence.	Section of H292 to facilitate access track.	Swathe through H059 to facilitate perimeter fence.
Section of H430 to facilitate site access/egress.	Swathe through H277 to facilitate access/ perimeter fence.	Swathe through H055 to facilitate perimeter fence.
Swathe through H447 to facilitate access perimeter fence.	Two sections through H288 to facilitate access/ perimeter fence.	Section through H046 to facilitate access track.



East Site	Central Site	West Site
	Section through H234 to facilitate access track.	Section through H054 to facilitate access/ perimeter fence.
	Section through H231 to facilitate access track.	Section through G029 to facilitate access track.
	Section through H305 to facilitate access track.	Section through H020 to facilitate access track.
	Section through H105 to facilitate access track.	Section through H112 to facilitate access track.
	Swathe through H159 to facilitate access/ perimeter fence.	
	Section of H114 to facilitate access route.	
	Section of H178 to facilitate access route.	
	Section of H134 to facilitate access route.	
	Section of H150 to facilitate access.	
	Section of H340 to facilitate access and visibility splay.	



	Section of H359 to facilitate access.	
Total: 3 Sections of Hedgerow	Total: 14 Sections of Hedgerow	Total: 6 Sections of Hedgerow and 1 Tree Group

10.0 Tree Protection

10.0.1 The Tree Protection, Retention and Removal Plans, illustrate the proposed alignment of protective measures for retained trees where considered appropriate. The protective barriers and horizontal protection (ground protection) are intended to be installed before any works begin, including perimeter fencing and enabling works. However, in some areas, where approved by the project arboriculturist, perimeter fencing may be installed in replacement of tree protection barriers.

10.0.2 The tree protection barriers have been set out on the TPRRP, where potential impact from enabling works, machinery and vehicle ground compaction and general construction activities are at most risk of damage to trees. Protective barriers to fully protect every single tree and tree group on this site is not considered necessary or appropriate. For example, protecting maintained hedgerows are not considered necessary as root spread is likely to be very minimal into the field parcels and the installation of barriers along every hedgerow would increase the overall movement across the site, resulting in a greater risk of tree impact in other areas.

10.0.3 The temporary barriers will minimise damage within the Root Protection Areas (RPA) of retained tree and groups. They will prevent potential damage such as soil compaction or contamination, or physical damage to above ground tree parts which may arise from earthworks/construction machinery activity. The areas within the protected areas will be a Construction Exclusion Zone (CEZ). No activity at all, including the storage of materials or equipment will be undertaken within the CEZ.

10.0.4 The protective barriers will be installed before any other works and maintained in good condition throughout the construction period and only removed on completion. Any works required within the CEZ or any other areas where Root Protection Areas cannot be fully protected, should only be undertaken following an Arboricultural Method



Statement, which will be reviewed and approved by the Local Authority before implementing the methods within the document.

11.0 Underground Service Installation and Substation Connection

11.0.1 All proposed underground services are planned outside of the RPA of retained trees. If the alignment of underground services is proposed for change of route, further arboricultural assessment may be necessary. This assessment does not include the connection route.

11.0.2 Any alterations or plans to install underground services within RPAs of retained trees should be discussed with the Arboricultural Consultant and would follow a suitable methodology, to be agreed with the Local Authority Tree Officer and approved in writing before being implemented.

12.0 Arboricultural Method Statement Heads of Terms

12.0.1 In order to ensure any potential damage to retained trees is minimised, the following points will be applied.

- a. Sections of hedgerow and tree removal within G029 will be undertaken by competent and qualified arborists, working to best practice BS3998:2010. Trees will be removed, and the site cleared of all arisings unless identified for re-use on site before the tree protection barrier is installed.
- b. Temporary tree protection barriers as shown on the TPRRP, will be installed before any other works, including the erection of the perimeter fencing and maintained in good condition throughout the enabling works and construction stages of the project.
- c. Other associated works, such as installation of the solar arrays and battery storage facility will not be undertaken until the tree protection barrier has been installed. Welfare, storage, or compounds etc. will not be brought to site until the tree protection barriers are in place.
- d. Machinery, storage of materials, welfare areas or any other storage or activity including access and egress haul routes to remove or deliver material will not occur within the Construction Exclusion Zone (CEZ). This is the area protected by tree protection barriers.



- e. Any damage arising to any retained tree will initiate an inspection by an Arboricultural Consultant, who will provide appropriate management specifications, to be agreed with the Arboricultural Consultant before implementation.

13.0 Conclusion

- 13.0.1 The proposed landscape improvements include planting 3,499 linear metres of new hedgerow, with new tree planting and large areas of wildflower meadow creation to increase biodiversity, which will effectively compensate and mitigate for the loss of the hedge/group sections proposed for removal.
- 13.0.2 The impact on retained trees will be managed through the installation of protective barriers, where appropriate, ensuring that these existing trees can be protected from potential damage from soil compaction below ground or mechanical damage above ground.
- 13.0.3 Providing the recommendations set out within the report are applied and all plant, equipment, vehicle and operative movements follow designated routes within the site, then any impact to tree features is considered to be extremely minimal. The design and character of the solar arrays and the associated infrastructure will not conflict with trees on site and any potential future conflict between the recorded trees and the equipment is considered to be very low and sustainable, with increased opportunity for biodiversity and enjoyable public access, via 5.3km of new permissive paths.



Legislation and Guidance

Town & Country Planning Act 1990

Town & Country Planning (Trees) Regulations 1999

Forestry Act 1967

Health & Safety at Work Act 1974

Construction (Design & Management) Regulations 1994

BS 5837:2012 Trees in Relation to Design, Demolition & Construction - Recommendations

BS 3998:2010 Tree Work Recommendations

National Joint Utilities Group Publication No.4

REFERENCES

Mattheck, C. and Breloer, H. (1995). The Body Language of Trees: A handbook for failure analysis. Research for Amenity Trees **4**. HMSO, London, 240pp.

Matheny, N and Clark, J (1997) Trees and Development: A Technical Guide to Preservation of Trees During Land Development. ISBN 1-881956-20-2

STANDARDS PUBLICATIONS

Trees in Relation Design, Demolition & Construction – Recommendations. (BS5837), British Standards Institution, London (2012).

Tree Work - Recommendations. (BS3998), British Standards Institution, London (2010).

Appendix A

Tree Schedule & Tree Protection Retention and Removal Plan (East)

Tree Categories

Tree Data

Table 1 Cascade Chart taken from BS5837:2012 Trees in Relation to Design, Demolition & Construction – Recommendations.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G366	Pedunculate oak x2 (<i>Quercus robur</i>)	Height (m): 14 2 stems, avg.(mm): 550 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Group of 2 in good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G367	Goat willow x2 (<i>Salix caprea</i>)	Height (m): 6 2 stems, avg.(mm): 300 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 20+ Years	Group along fence line. Access to inspect base not possible.	C2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G372	Pedunculate oak x2 (<i>Quercus robur</i>)	Height (m): 13 2 stems, avg.(mm): 700 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 20+ Years	Fair overall Physiological and Structural condition. Deadwood through crown stag headed.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G378	Pedunculate oak x5 (<i>Quercus robur</i>)	Height (m): 14 5 stems, avg.(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Group around d pond on corner of site. Deadwood through crowns. Fair overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G384	Sycamore (<i>Acer pseudoplatanus</i>) Goat willow (<i>Salix caprea</i>) Common ash (<i>Fraxinus excelsior</i>) Common holly (<i>Ilex aquifolium</i>) Blackthorn (<i>Prunus spinosa</i>) Oak (<i>Quercus sp.</i>)	Height (m): 14 Stem Diam(mm): 450 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Group on adjacent land. Old stone wall and ditch between group and site land. Good physiological and structural condition. Dimensions are based on larger trees in the group.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G386	Common ash x2 (<i>Fraxinus excelsior</i>)	Height (m): 14 2 stems, avg.(mm): 350 Spread (m): 4.5N, 4.5E, 4.5S, 4.5W Crown Clearance (m): 5 Life Stage: Early Mature Rem. Contrib.: <10 years	Level 1 Ash dieback suspected.	C1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G388	Pedunculate oak (<i>Quercus robur</i>) Common beech (<i>Fagus sylvatica</i>) Other (<i>Other</i>) Common ash (<i>Fraxinus excelsior</i>)	Height (m): 15 Stem Diam(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Third party group on boundary. Access restricted.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G401	Common hawthorn (<i>Crataegus monogyna</i>) Oak x5 (<i>Quercus sp.</i>) Goat willow (<i>Salix caprea</i>)	Height (m): 3 7 stems, avg.(mm): 100 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 1 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Young/semi mature group on bank of field.	C2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G418	Crack willow (<i>Salix fragilis</i>) Goat willow (<i>Salix caprea</i>) Common alder (<i>Alnus glutinosa</i>) Sycamore (<i>Acer pseudoplatanus</i>) Pedunculate oak (<i>Quercus robur</i>) Wild cherry (<i>Prunus avium</i>) Common ash (<i>Fraxinus excelsior</i>) Silver birch (<i>Betula pendula</i>)	Height (m): 18 Stem Diam(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Third party group. No significant faults observed.	B2	Pre construction: No action required. During construction: Tree protection box to protect ... Post construction: No action required.
G420	Pedunculate oak (<i>Quercus robur</i>) Other (<i>Other</i>) Wild cherry (<i>Prunus avium</i>) Cypress (<i>Cupressus sp.</i>)	Height (m): 15 Stem Diam(mm): 300 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Front row facing site on south west side are a Cypress wind break. Internally most trees are Wild Cherry.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
G431	Pedunculate oak x3 (<i>Quercus robur</i>) Horse chestnut (<i>Aesculus hippocastanum</i>)	Height (m): 15 3 stems, avg.(mm): 1000 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Row of mature trees in/road side of hedge.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G432	Alder (<i>Alnus sp.</i>) Common ash (<i>Fraxinus excelsior</i>) Pedunculate oak (<i>Quercus robur</i>) Poplar (<i>Populus sp.</i>)	Height (m): 13 Stem Diam(mm): 400 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 4 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Group, offside behind hedge. Some individuals extend past the hedgerow into the site.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
G437	Scots pine (<i>Pinus sylvestris</i>) Common ash (<i>Fraxinus excelsior</i>) Horse chestnut (<i>Aesculus hippocastanum</i>) Wild cherry (<i>Prunus avium</i>) Pedunculate oak (<i>Quercus robur</i>) Sycamore (<i>Acer pseudoplatanus</i>) Other (<i>Other</i>)	Height (m): 15 Stem Diam(mm): 600 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4.5 Life Stage: Mature Rem. Contrib.: 20+ Years	Positioned between hedge and highway. Verge planting, mostly early mature or mature. In general the group overhangs the site by 5m. Several trees within the group are dead or have substantial defects. Risk survey recommended.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
G445	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 550 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. In hedgerow.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G445	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 550 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. In hedgerow.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G445	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 550 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. In hedgerow.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G445	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 550 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. In hedgerow.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G445	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 550 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. In hedgerow.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G445	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 550 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. In hedgerow.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G445	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 550 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. In hedgerow.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G445	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 550 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. In hedgerow.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G448	Pedunculate oak (<i>Quercus robur</i>) Common ash (<i>Fraxinus excelsior</i>) Hawthorn (<i>Crataegus sp.</i>) Other (<i>Other</i>)	Height (m): 17 Stem Diam(mm): 500 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Linear group. Farm track on the northeast side. Mostly mature or early mature trees. Good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G457	Pedunculate oak x3 (<i>Quercus robur</i>)	Height (m): 13 3 stems Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Linear group in hedgerow. Dimensions are based on the larger tree.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G463	Pedunculate oak x2 (<i>Quercus robur</i>)	Height (m): 17 2 stems, avg.(mm): 700 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Surveyed from edge of field due to high corn crop present at the time of the survey. Dimensions are estimated based on limited observations.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G468	Pedunculate oak x5 (<i>Quercus robur</i>)	Height (m): 16 5 stems, avg.(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Surveyed from edge of field due to high corn crop present at the time of the survey. Dimensions are estimated based on very limited observations.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
H360	Common hawthorn (<i>Crataegus monogyna</i>) Elder (<i>Sambucus nigra</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow. Fragmented in places.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H368	Blackthorn (<i>Prunus spinosa</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 20+ Years	Managed hedgerow section.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H373	Blackthorn (<i>Prunus spinosa</i>) Other (<i>Other</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Mostly Blackthorn. Managed field hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H382	Blackthorn (<i>Prunus spinosa</i>) Elder (<i>Sambucus nigra</i>) Other (<i>Other</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Scrub hedge. Some areas are bramble.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H383	Blackthorn (<i>Prunus spinosa</i>) Elder (<i>Sambucus nigra</i>) Other (<i>Other</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Scrub hedge. Some areas are bramble.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H387	Other (<i>Other</i>) Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>)	Height (m): 2.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Boundary hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H398	Blackthorn (<i>Prunus spinosa</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 2 Stem Diam(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed hedgerow along edge of track.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H399	Blackthorn (<i>Prunus spinosa</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 2 Stem Diam(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed hedgerow along edge of track.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H409	Common ash (<i>Fraxinus excelsior</i>) Common hawthorn (<i>Crataegus monogyna</i>) Other (<i>Other</i>)	Height (m): 1.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 20+ Years	Gappy hedge of quality.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H417	Common hawthorn (<i>Crataegus monogyna</i>) Other (<i>Other</i>) Blackthorn (<i>Prunus spinosa</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed hedge between site land and grounds of residence. Hard compacted track to west.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H427	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 1.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed field hedgerow. Mostly Hawthorn.	NotRecorded	Pre construction: Remove swathe through H427 to facilitate access perimeter fence. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
H428	Common hawthorn (<i>Crataegus monogyna</i>) Guelder rose (<i>Viburnum opulus</i>) Ash (<i>Fraxinus sp.</i>) Other (<i>Other</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed field boundary hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H430	Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>) Guelder rose (<i>Viburnum opulus</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Field boundary hedgerow. Mostly Hawthorn.	NotRecorded	Pre construction: Section to be removed to facilitate site access and visibility splay as shown on plans. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H442	Other (Other) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 1.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Early mature managed hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H447	Common hawthorn (<i>Crataegus monogyna</i>) Other (Other)	Height (m): 1.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	NotRecorded	Pre construction: Remove swathe through H447 to facilitate access perimeter fence and access road. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
H472	Blackthorn (<i>Prunus spinosa</i>) Common hawthorn (<i>Crataegus monogyna</i>) Other (Other)	Height (m): 1.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T359	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 1000 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 2.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor deadwood through crown.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T361	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 1200 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Some areas of localised decay, minor deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T362	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 1300 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3 Life Stage: Veteran Rem. Contrib.: 40+ Years	Large burr/adaptive growth 0-2m . Broken branches and epicormics through the crown. Retrenching form.offsite.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T363	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 1000 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Dead	Deas tree, full crown remains. High habitat value. Retention in monolith form recommended. Off site.	U	Pre construction: No action required. During construction: No action required. Post construction: No action required.
T364	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 900 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3 Life Stage: Veteran Rem. Contrib.: 40+ Years	Central leader from crown bole is dead with significant habitat value. Remaining form is in fair overall Physiological and Structural condition. Tree is off site.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T365	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 5 Stem Diam(mm): 1100 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 20+ Years	Snapped in past storm event at 3.5m. Live epicormic growth developing on lower stem. High habitat value.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T369	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 4 Stem Diam(mm): 900 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 1 Life Stage: Dead	Dead fallen tree. Partially cut up.	U	Pre construction: No action required. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T370	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 5 Stem Diam(mm): 600 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 1 Life Stage: Veteran Rem. Contrib.: 20+ Years	Historic storm damage . Remaining tree is around 5m, with significant major deadwood with high habitat value. Live growth also remains on lateral branch and epicormics developing.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T371	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 600 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T374	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 7.5 Stem Diam(mm): 300 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Establishing tree in hedgerow. Good overall Physiological and Structural condition.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T375	Field maple (<i>Acer campestre</i>)	Height (m): 7 Stem Diam(mm): 450 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. In hedgerow.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T376	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 600 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 2.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Deadwood in lower and mid crown. End weighted branches developing.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T377	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 650 Spread (m): 4N, 2E, 5S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 20+ Years	Deadwood concentrated on North East aspect. Tree is approximately 7m from field fence.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T379	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 750 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 6 Life Stage: Mature Rem. Contrib.: 20+ Years	Dieback in upper crown, likely a result of crop ploughing and competition near base. Truncated/crown lifted in past to aid farm machinery access.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T380	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 700 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 1.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Much better condition than adjacent tree.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T381	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 2000 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 4 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Co dominant stems from 1.7m. Some areas of major deadwood in central crown. High habitat value. Large prominent tree.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T385	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 1300 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Significant tree in good overall Physiological and Structural condition. 2x large broken branches, Minor deadwood through crown. Third party tree on adjacent land, in fence line.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T389	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 1700 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Significant tree in fair overall Physiological and Structural condition. Some major deadwood in central crown. High habitat value.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T390	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 6 2 stems (mm): 250, 100 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 2 Life Stage: Early Mature Rem. Contrib.: <10 years	Level 1 Ash dieback suspected.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T391	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 850 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 2.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T392	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 19 Stem Diam(mm): 1100 Spread (m): 7.5N, 7.5E, 7.5S, 7.5W Crown Clearance (m): 4 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Significant tree in fair overall Physiological and Structural condition. Deadwood through crown with high habitat value.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T393	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 1000 Spread (m): 8N, 4E, 8S, 8W Crown Clearance (m): 5 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Crown is 5m above track. Deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T394	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 1000 Spread (m): 6N, 6E, 10S, 6W Crown Clearance (m): 8 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Crown is 6m above track. Deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T395	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 1000 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 5 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Crown is 5m above track. Deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T396	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 1100 Spread (m): 3N, 7E, 8S, 6W Crown Clearance (m): 3.5 Life Stage: Veteran Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Dieback in upper crown, major deadwood on North aspect, open cavities.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T397	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 19 Stem Diam(mm): 1300 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3.5 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Some major deadwood in central crown. High habitat value. 3.5m above track. Previously crown lifted.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T400	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 800 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Off site, 5m from fence. Open grown Oak, overhangs track by 2-3m.	B	Pre construction: No action required. During construction: No action required (off site). Post construction: No action required.
T410	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 600 Spread (m): 5N, 1E, 2S, 3W Crown Clearance (m): 5 Life Stage: Dead	Dead tree, with high habitat value. Recommend retention as standing monolith.	U	Pre construction: No action required. During construction: No action required. Post construction: No action required.
T411	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 15 2 stems (mm): 450, 350 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: <10 years	Positioned between a farm track and the linear woodland. Larger than the majority of the trees in the woodland. Fair overall Physiological and Structural condition. Level 1 Ash dieback suspected.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T412	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 1350 Spread (m): 6N, 6E, 8S, 6W Crown Clearance (m): 4.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Has been crown lifted in past by removing 2 major scaffold limbs. Epicormics are present around d the pruning wounds with localised decay. Minor deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T413	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 900 Spread (m): 6N, 6E, 8S, 5W Crown Clearance (m): 4.5 Life Stage: Mature Rem. Contrib.: 20+ Years	Fair overall physiological and Structural condition. Sparse crown, with deadwood throughout. Bird box present in tree.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T414	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 1200 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor deadwood through crown. Bifurcates at 2.5m several decay entry points (decay appears localised).	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T415	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 1000 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition, with minor defects.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T416	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 950 Spread (m): 5N, 4E, 5S, 5W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 20+ Years	Major defect from past storm event on east aspect. Fair overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T419	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 20 Stem Diam(mm): 900 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 4.5 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Past broken branches in lower crown. Deadwood through the crown. Bird or bar box in tree. High habitat value. Edge of group.	B	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T421	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 1200 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 5 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Deadwood through the crown. High habitat value.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T422	Common alder (<i>Alnus glutinosa</i>)	Height (m): 11 Stem Diam(mm): 550 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 5 Life Stage: Dead	Dead, decaying tree at edge of group. Recommend retention as monolith for habitat.	U	Pre construction: No action required. During construction: No action required. Post construction: No action required.
T423	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 900 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Minor deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T424	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 1350 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Minor deadwood and defects throughout the crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T425	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 950 Spread (m): 8.5N, 8.5E, 8.5S, 8.5W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Deadwood through the crown. Epicormics on lower stem.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T426	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 650 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 6 Life Stage: Mature Rem. Contrib.: 20+ Years	Fair overall Physiological and Structural condition. Localised decay ay at base, crown lifted in past. Minor deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T429	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 1100 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 6 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Sparse crown. Larger tree on edge of group.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T433	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 800 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Epicormics through crown and minor deadwood.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T434	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 1100 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Larger tree in group, extending over the site. Good overall Physiological and Structural condition. Minor deadwood and localised decay entry points. Access to inspect base not possible.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T435	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 19 Stem Diam(mm): 1000 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Larger tree in group, extending over the site. Good overall Physiological and Structural. Access to inspect base not possible. Positioned on fence/hedge line.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T436	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 700 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Larger tree in group, extending over the site. Good overall Physiological and Structural condition. Minor deadwood and localised decay entry points. Access to inspect base not possible. Set back 2m from hedgerow.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T438	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 650 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Previously crown lifted.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T439	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 1000 Spread (m): 6N, 9E, 6S, 6W Crown Clearance (m): 4.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Leaning east (stable), extensive hollowing at base, but sufficient live wood to maintain the structure. Minor deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T440	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 750 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T441	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 700 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T443	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 800 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. End of hedgerow section.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T444	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 900 Spread (m): 5N, 3E, 4S, 8W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 20+ Years	Major decay 0-1.5m. Suspect this to be compartmentalising. Fair physiological condition. Deadwood in crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T446	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 600 Spread (m): 7.5N, 7.5E, 7.5S, 7.5W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	In hedgerow. Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T449	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 900 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Larger tree on edge of group. Fair overall Physiological and Structural condition. Deadwood through crown and broken branches.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T450	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 850 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Major and minor deadwood through the crown. 3m into the field past hedge.	B1,2	Pre construction: Lift crown over the highway to 5.2m to accomodate the visibility splay. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T451	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 500 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 20+ Years	Fair/Poor overall Physiological and Structural condition. Dieback observed through the crown with major deadwood.	B1,2	Pre construction: Lift crown over the highway to 5.2m to accomodate the visibility splay. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T452	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 800 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: Lift crown over the highway to 5.2m to accomodate the visibility splay. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T453	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 1100 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Minor and major deadwood throughout the crown. Fair overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T454	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 750 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T455	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 500 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 20+ Years	Fair overall Physiological and Structural condition. Extensive deadwood through the crown. High habitat value.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T456	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 900 Spread (m): 9.5N, 9.5E, 9.5S, 9.5W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T458	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 8 Stem Diam(mm): 500 Spread (m): 4.5N, 4.5E, 4.5S, 4.5W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Stunted form. 1.5m from hedge, off site.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T459	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 600 Spread (m): 5N, 5E, 5S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Major deadwood at crown bole. High habitat value.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T460	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 550 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Deadwood through crown. Epicormics on lower stem.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T461	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 750 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T462	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 650 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T464	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Surveyed from edge of field due to high corn crop present at the time of the survey. Dimensions are estimated based on limited observations.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T465	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Surveyed from edge of field due to high corn crop present at the time of the survey. Dimensions are estimated based on limited observations.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T466	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Surveyed from edge of field due to high corn crop present at the time of the survey. Dimensions are estimated based on limited observations.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T469	Field maple (<i>Acer campestre</i>)	Height (m): 9 Stem Diam(mm): 350 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T470	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 450 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - East - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T471	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 800 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 4.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. 1 x broken branch hung u Minor deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T473	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Surveyed from edge of field due to high corn crop present at the time of the survey. Dimensions are estimated based on limited observations.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Table 1 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	<ul style="list-style-type: none">Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)Trees that are dead or are showing signs of significant, immediate, and irreversible overall declineTrees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality <p><i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i></p>			See Table 2
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
Trees to be considered for retention				
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	See Table 2
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	See Table 2
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	See Table 2

Symbol Guide

Category A Trees
High Quality

Category B Trees
Moderate Quality

Category C Trees
Low Quality

Category U Trees
Poor Quality/
Remove

KEY

Indicative Red
Line Boundary

Proposed Tree
Removal

Tree Protection
Fencing

Project Name:

Butterfly Solar Park - East

Drawing Title:

Tree Protection, Retention & Removal Plan
Sheet 1

Drawing Number:

250310-2.1-LSPE-TPRRP-MH-01

Client:

RWE

Agent:

AXIS

Date:

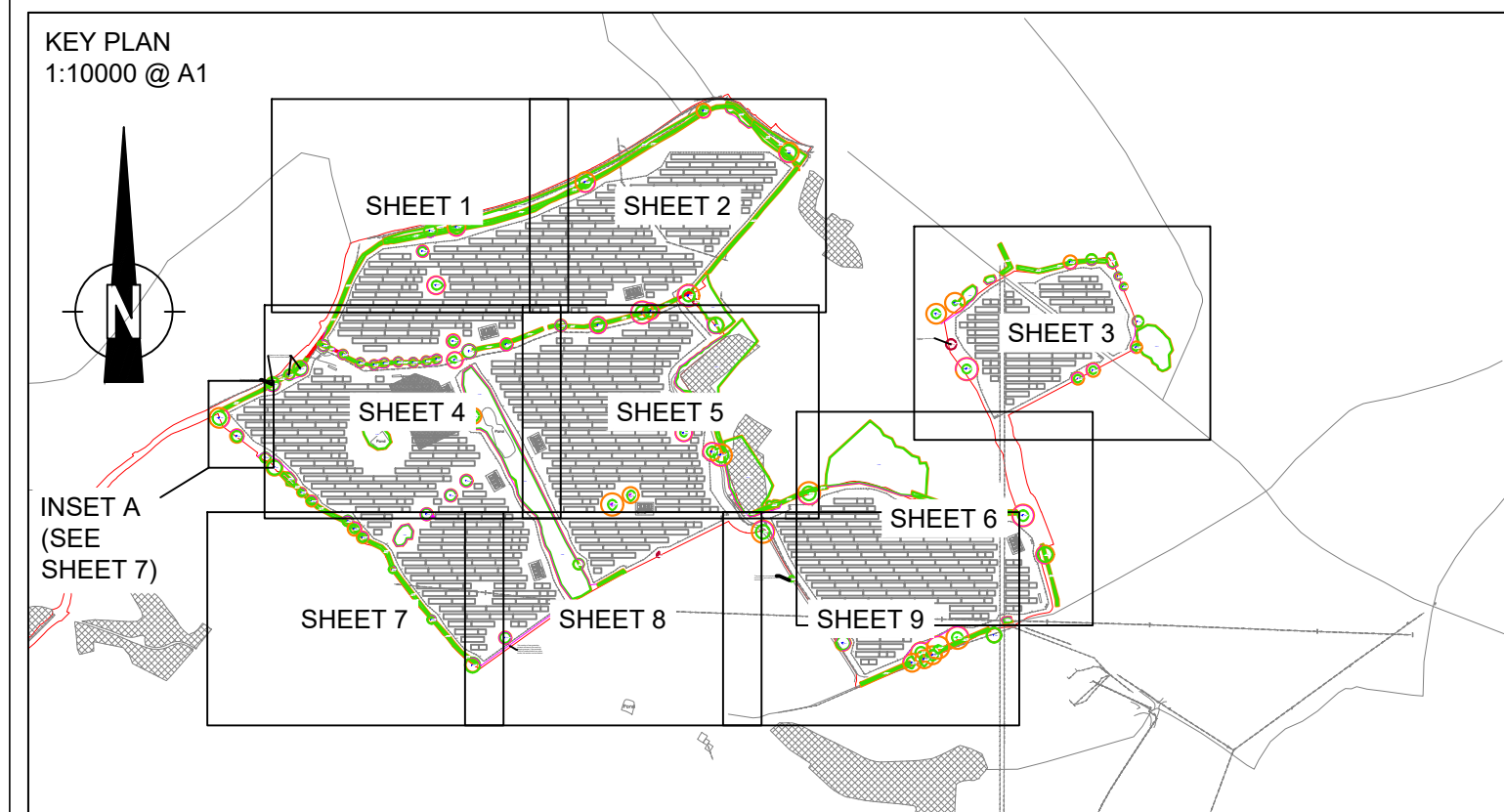
September 2025

Scale:

1:500 @ A1

The main site plan illustrates the layout of the Butterfly Solar Park - East. It features a series of rectangular solar panel arrays arranged in rows. A red line indicates the boundary of the site. A series of green and orange lines represent the canopy spread and root protection area for several trees. The trees are labeled with their tag numbers: T435, T436, T438, and T439. The canopy spread is shown as a green circle, and the root protection area is shown as an orange circle. The trees are located near a road labeled H430. A 'CUT' label is present near the road. The plan also shows a 'SHEET 2' label and a 'CUT' label. The drawing is titled 'Tree Protection, Retention & Removal Plan Sheet 1' and is drawn at a scale of 1:500 @ A1.

The Key Plan shows the location of the main drawing area within a larger site context. It includes labels for SHEET 1 through SHEET 9 and INSET A (SEE SHEET 7). The plan is drawn at a scale of 1:10000 @ A1. A north arrow is also present.



Symbol Guide

- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/ Remove

KEY

Indicative Red Line Boundary	Tree Protection Fencing
Proposed Tree Removal	

Tree Surveys & Consultancy Services

Project Name:
Butterfly Solar Park - East

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 2

Drawing Number:
250310-2.1-LSPE-TPRRP-MH-02

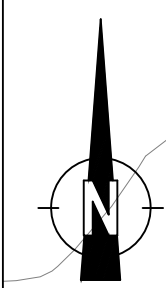
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AXIS

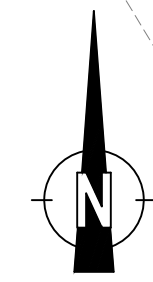
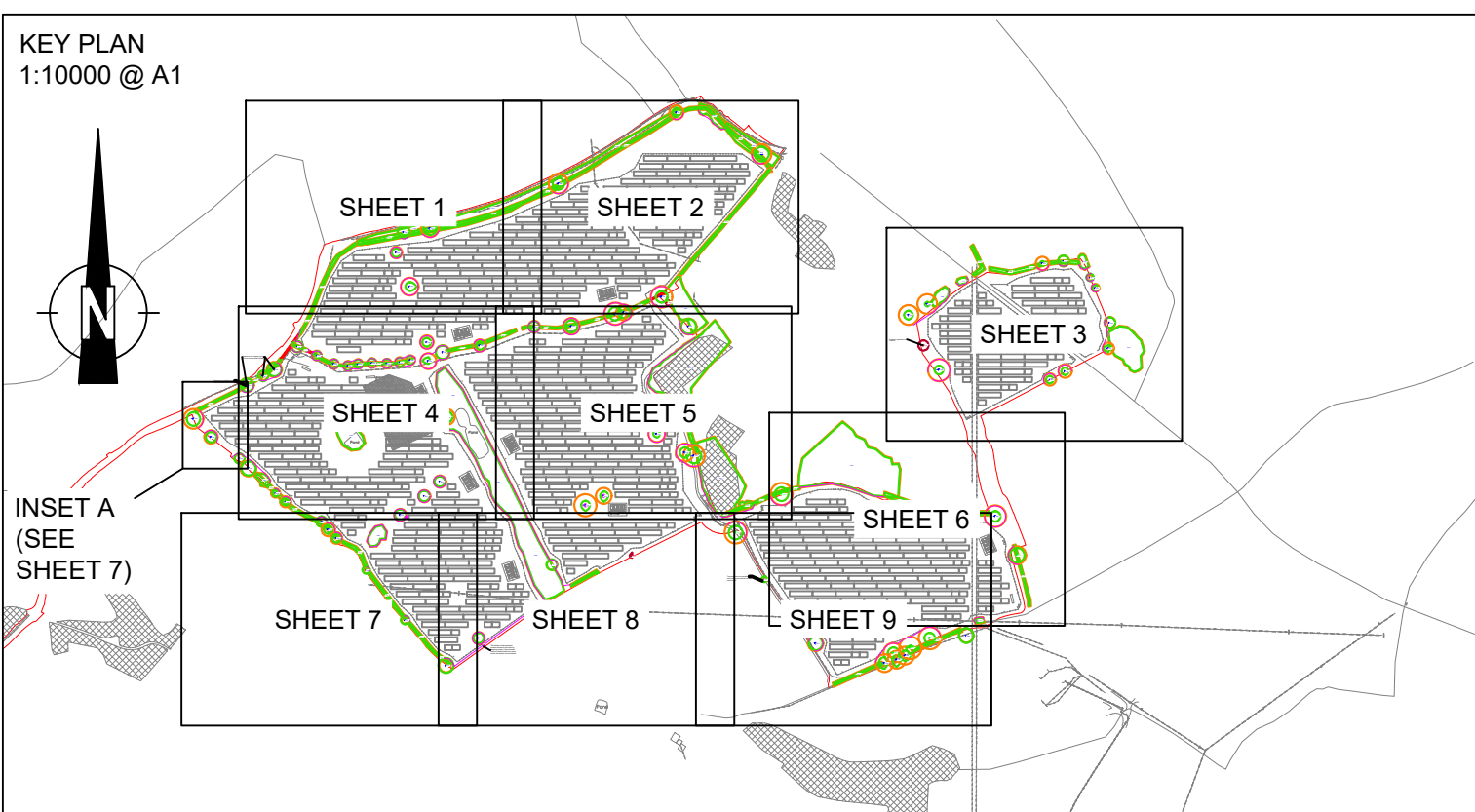
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September 2025

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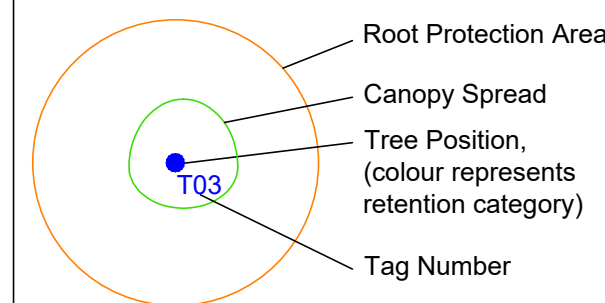
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INSET A
(SEE
SHEET 7)



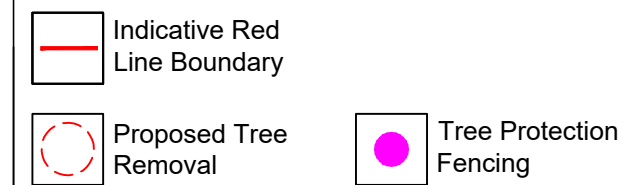
Symbol Guide



BS5837:2012 - Tree Category



KEY



Project Name:

Butterfly Solar Park - East

Drawing Title:

Tree Protection, Retention & Removal Plan

Sheet 3

Drawing Number:

250310-2.1-LSPE-TPRRP-MH-03

Client:

RWE

Agent:

AXIS

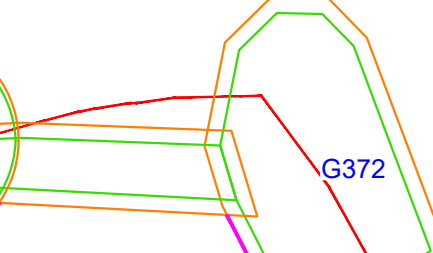
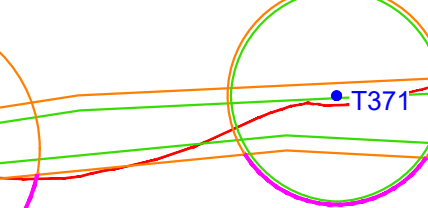
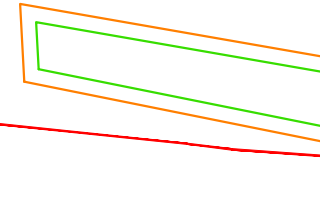
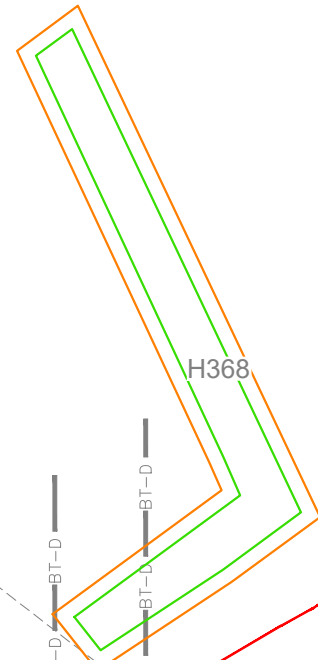
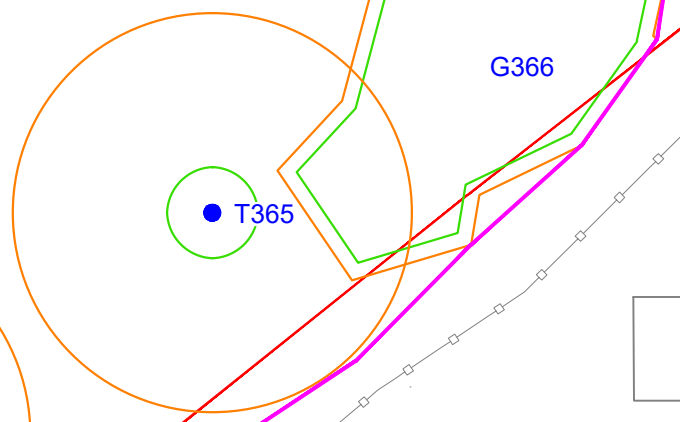
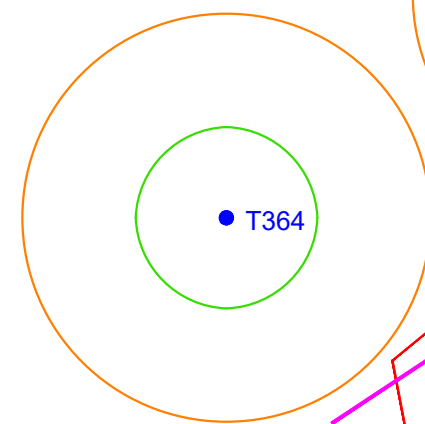
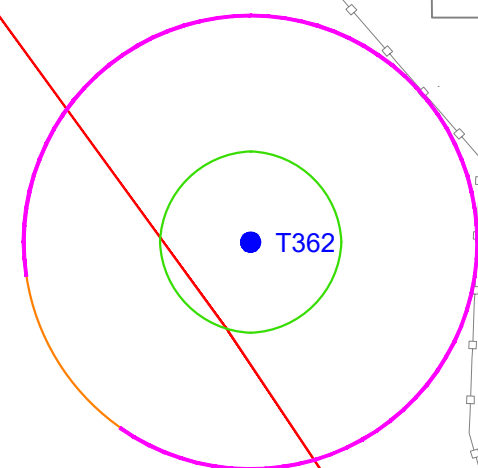
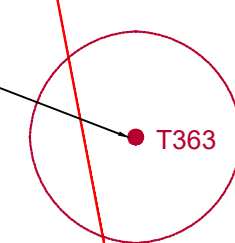
Date:

September 2025

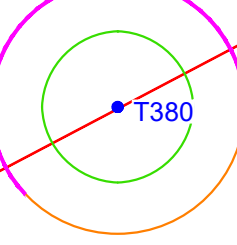
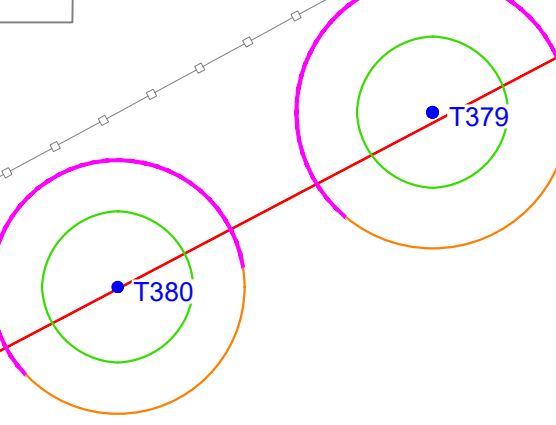
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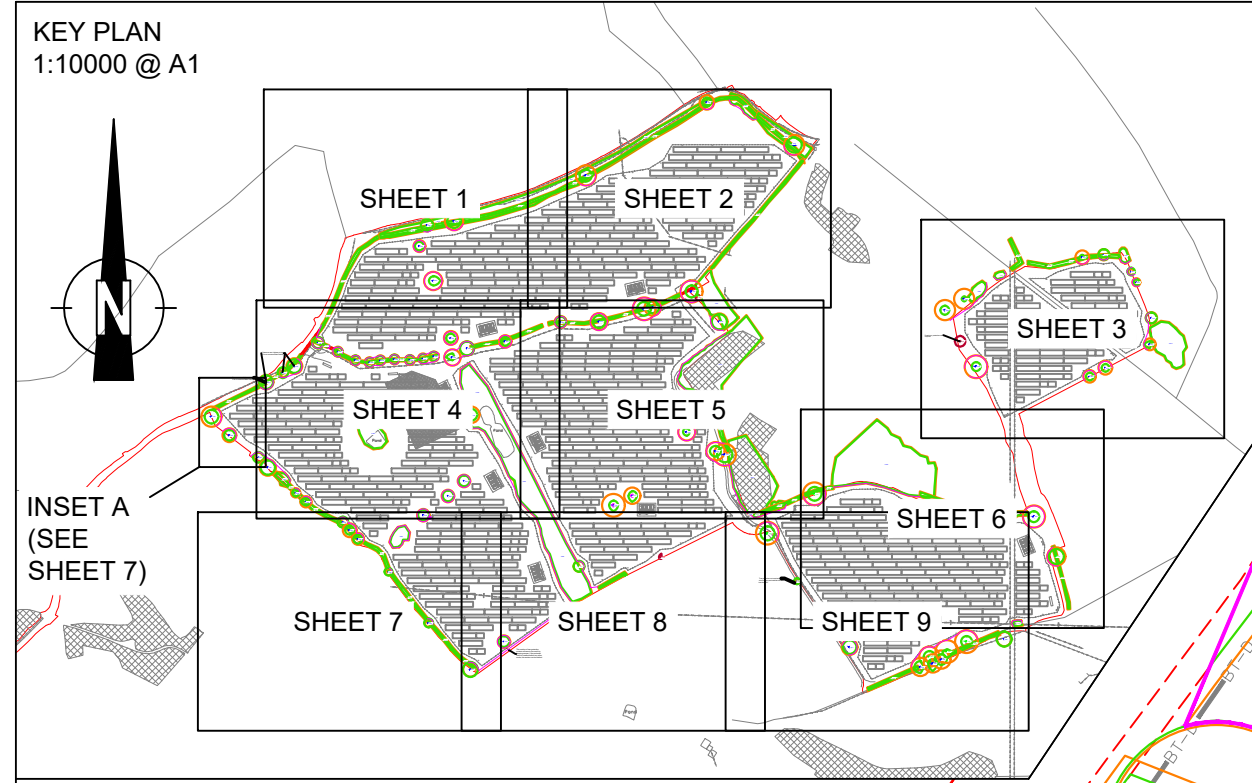


G378



CUT

SHEET 6



Symbol Guide

- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/ Remove

KEY

Indicative Red Line Boundary	Tree Protection Fencing
Proposed Tree Removal	

Project Name:
Butterfly Solar Park - East

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 4

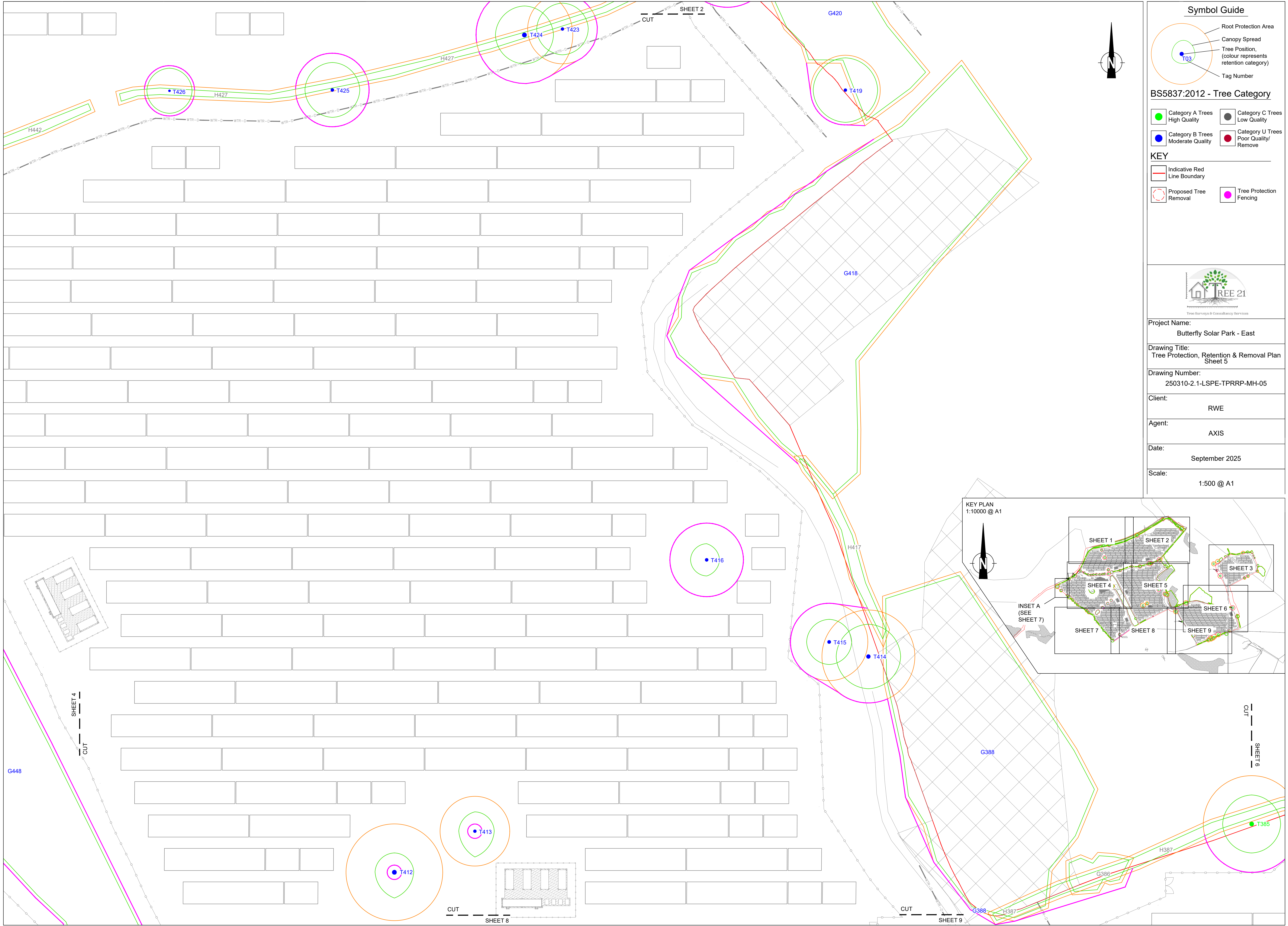
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250310-2.1-LSPE-TPRRP-MH-04

Client:
RWE

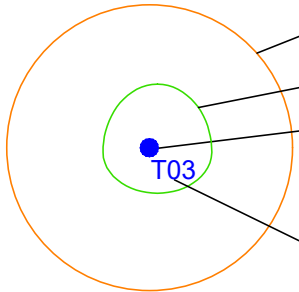
Agent:
AXIS

Date:
September 2025


Scale:
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Symbol Guide



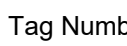
Root Protection Area



Canopy Spread







Tree Position,
(colour represents retention category)







Tag Number

BS5837:2012 - Tree Category

 Category A Trees High Quality	 Category C Trees Low Quality
 Category B Trees Moderate Quality	 Category U Trees Poor Quality/ Remove

KEY

 Indicative Red Line Boundary	 Tree Protection Fencing
 Proposed Tree Removal	



Tree Surveys & Consultancy Services

Project Name:
Butterfly Solar Park - East

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 5

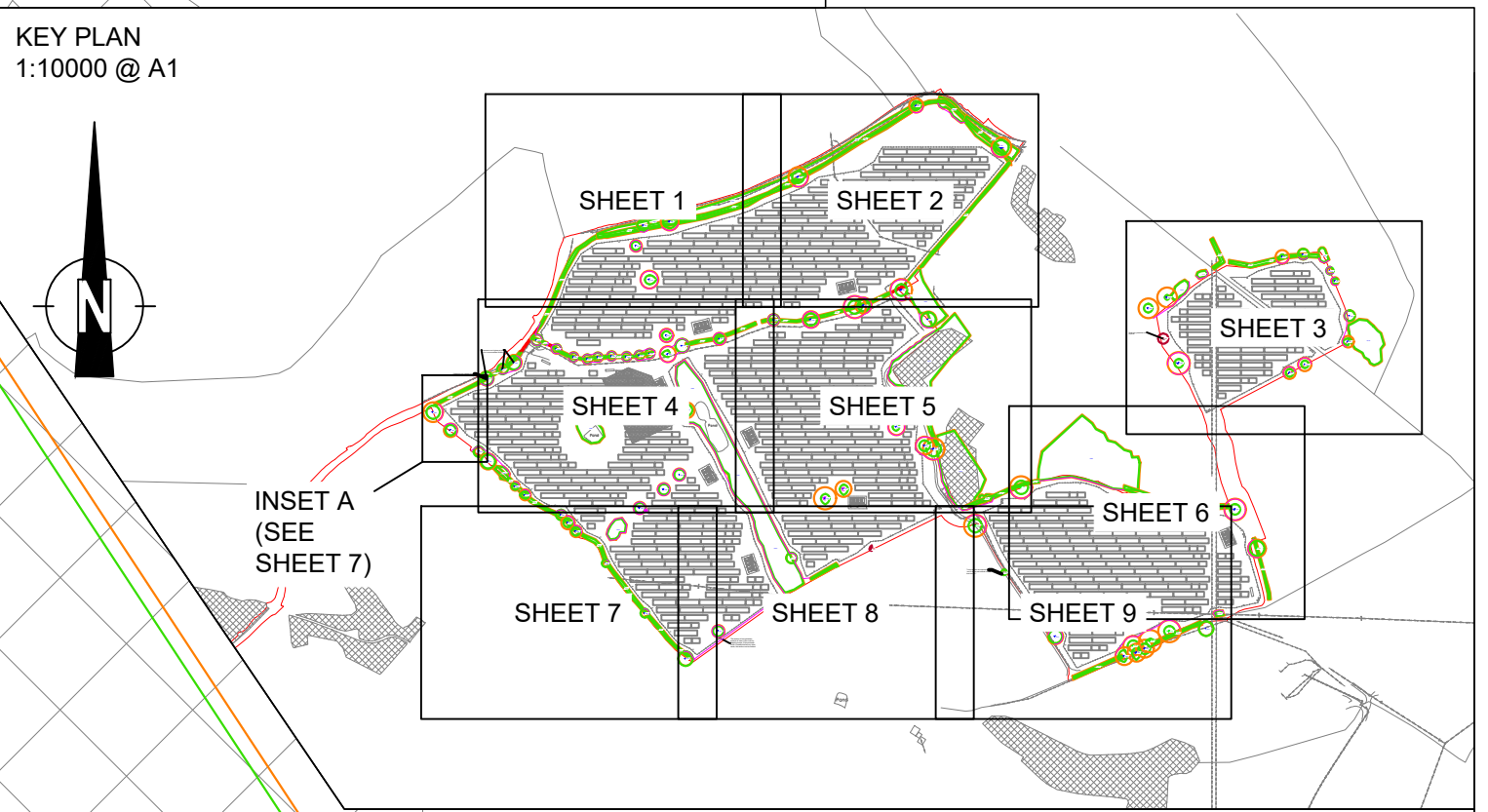
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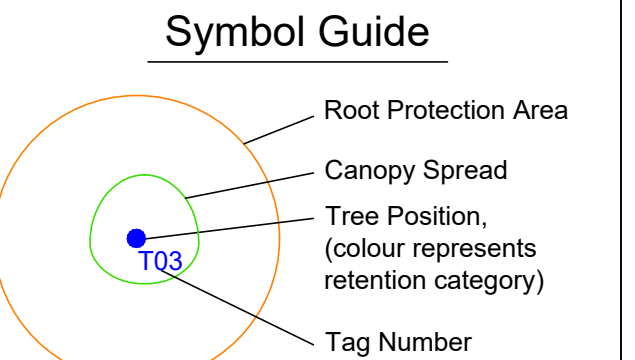
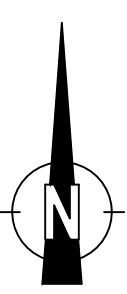
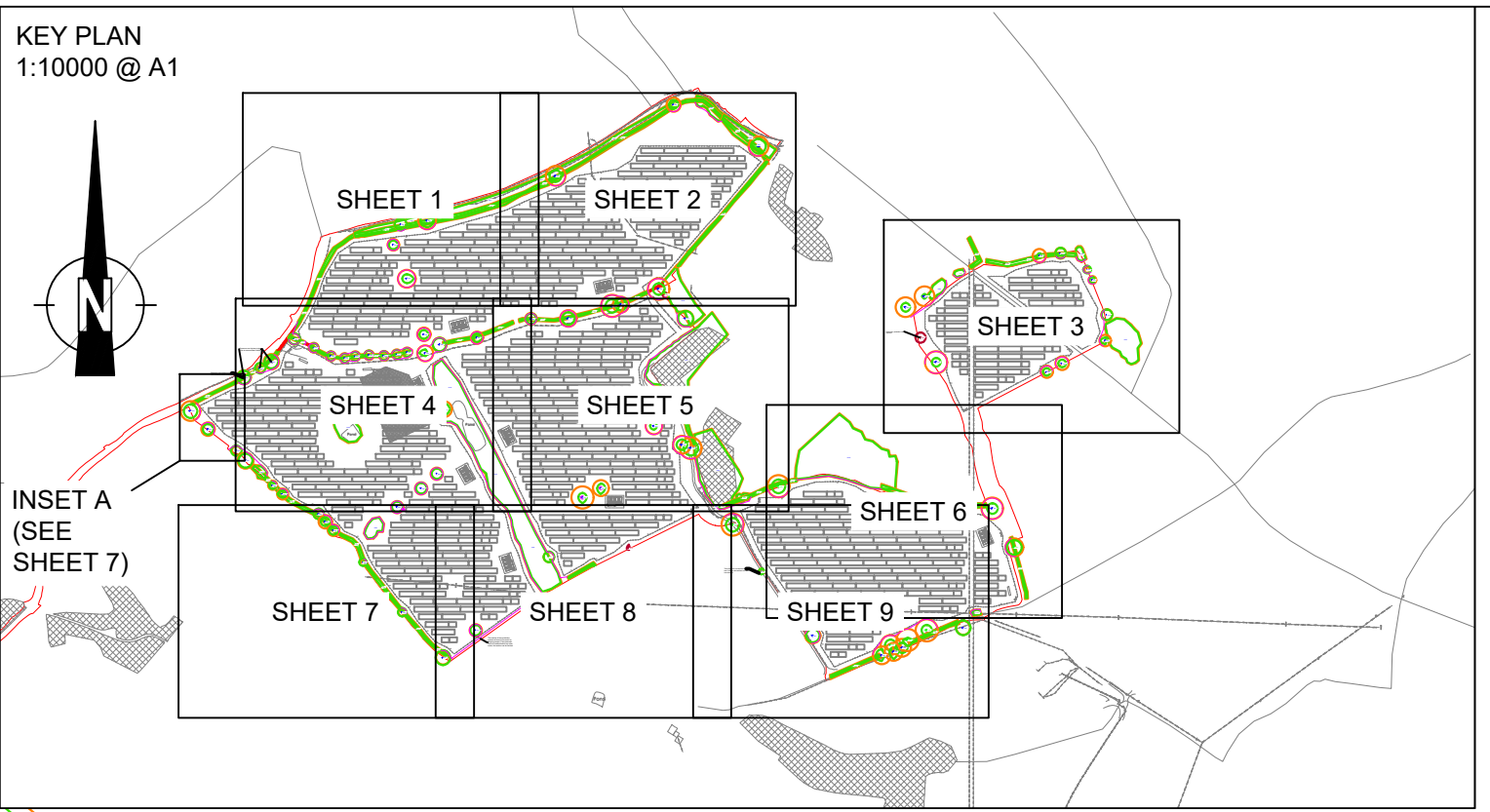
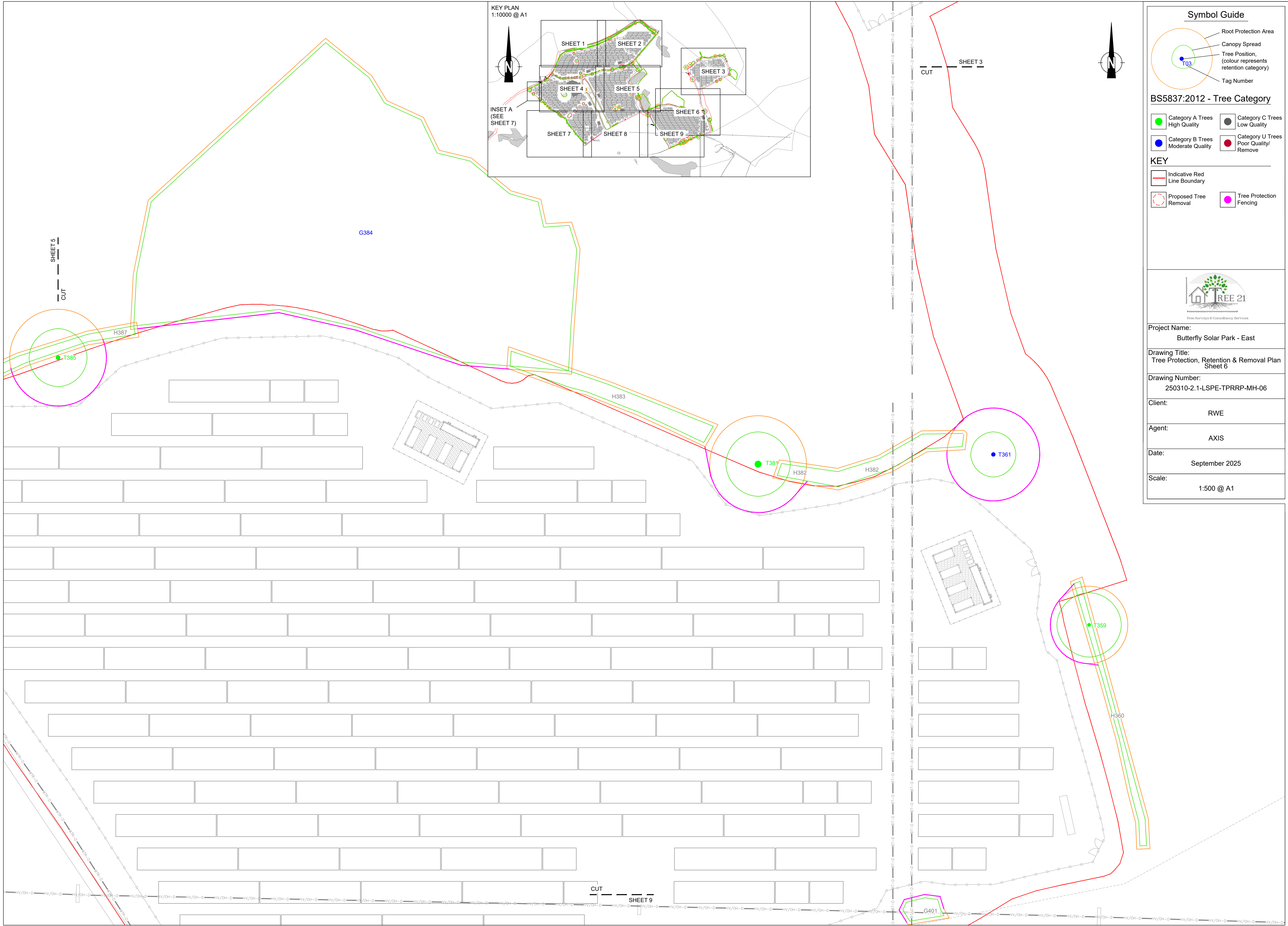
Client:
RWE

Agent:
AXIS

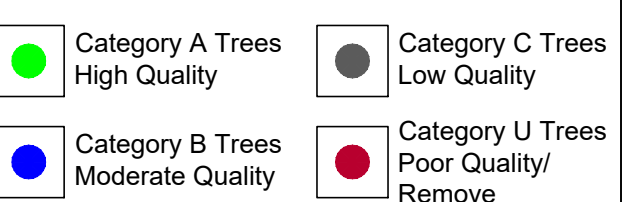
Date:
September 2025

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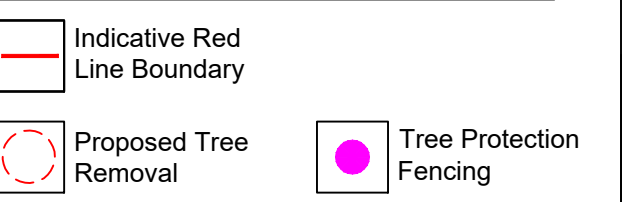




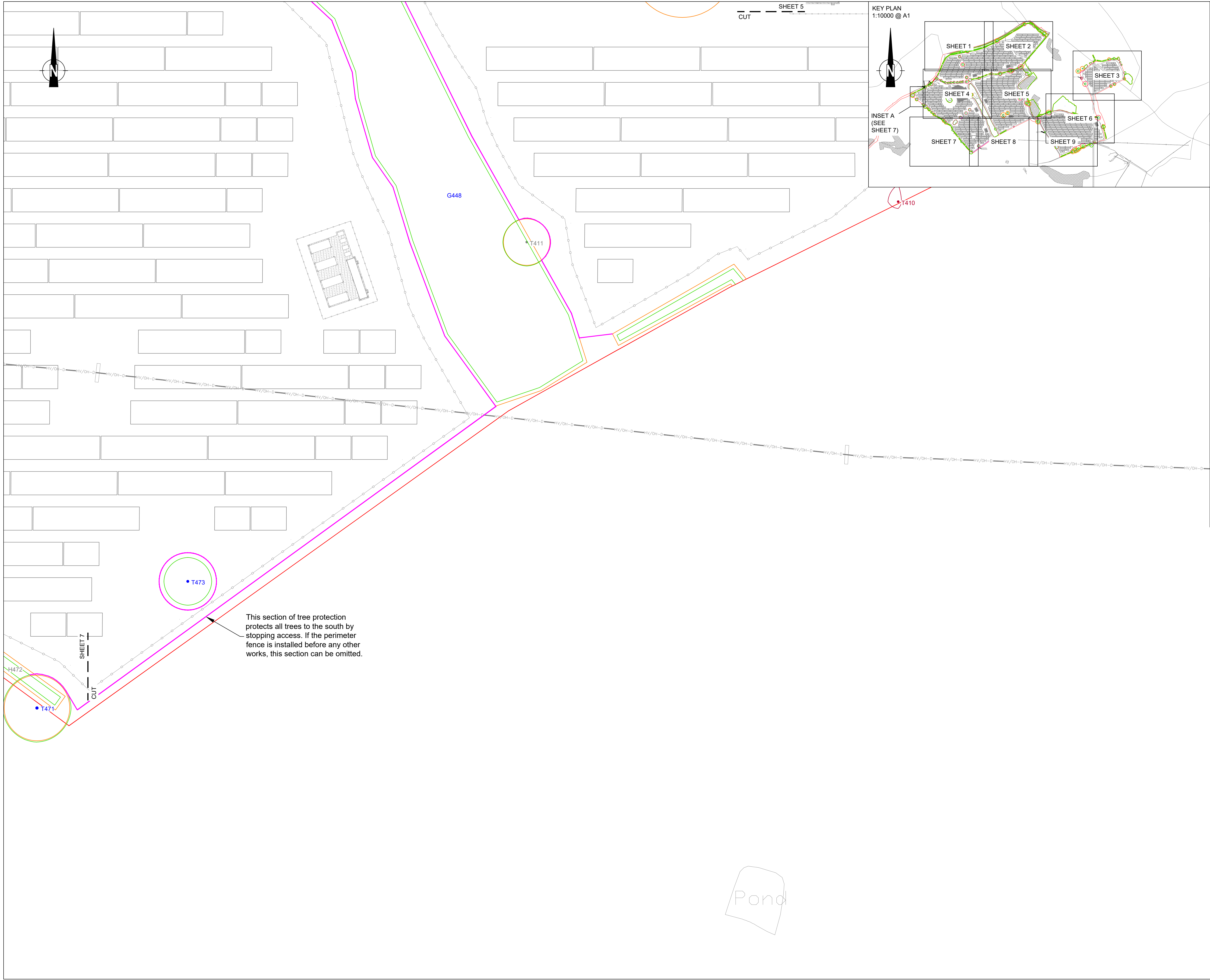
BS5837:2012 - Tree Category



KEY



Project Name:	Butterfly Solar Park - East
Drawing Title:	Tree Protection, Retention & Removal Plan Sheet 6
Drawing Number:	250310-2.1-LSPE-TPRRP-MH-06
Client:	RWE
Agent:	AXIS
Date:	September 2025
Scale:	1:500 @ A1



Symbol Guide

Root Protection Area

Canopy Spread

Tree Position,
(colour represents
retention category)

Tag Number

Category A Trees
High Quality

Category C Trees
Low Quality

Category B Trees
Moderate Quality

Category U Trees
Poor Quality/
Remove

Indicative Red
Line Boundary

Proposed Tree
Removal


Tree Protection
Fencing

BS5837:2012 - Tree Category

<div></div> Category A Trees High Quality	<div></div> Category C Trees Low Quality
<div></div> Category B Trees Moderate Quality	<div></div> Category U Trees Poor Quality/ Remove

KEY

<div></div> Indicative Red Line Boundary	<div></div> Tree Protection Fencing
<div></div> Proposed Tree Removal	



Tree Surveys & Consultancy Services

Project Name:
Butterfly Solar Park - East

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 8

Drawing Number:
250310-2.1-LSPE-TPRRP-MH-08

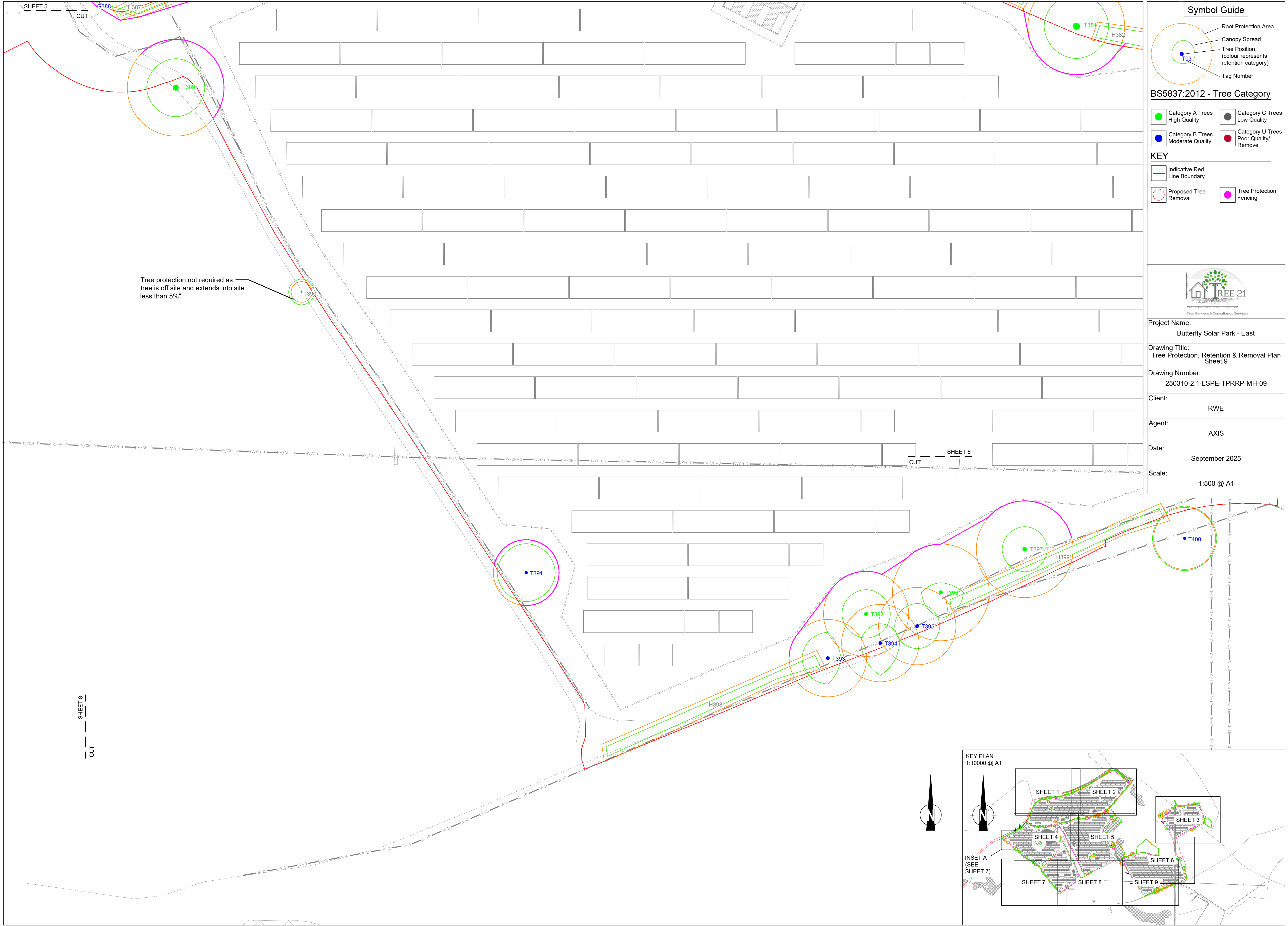
Client:
RWE

Agent:
AXIS

Date:
September 2025

Scale:
1:500 @ A1

CUT
SHEET 9



Symbol Guide

- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/ Remove

KEY

Indicative Red Line Boundary	Tree Protection Fencing
Proposed Tree Removal	

Tree Surveys & Consultancy Services

Project Name:
Butterfly Solar Park - East

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 9

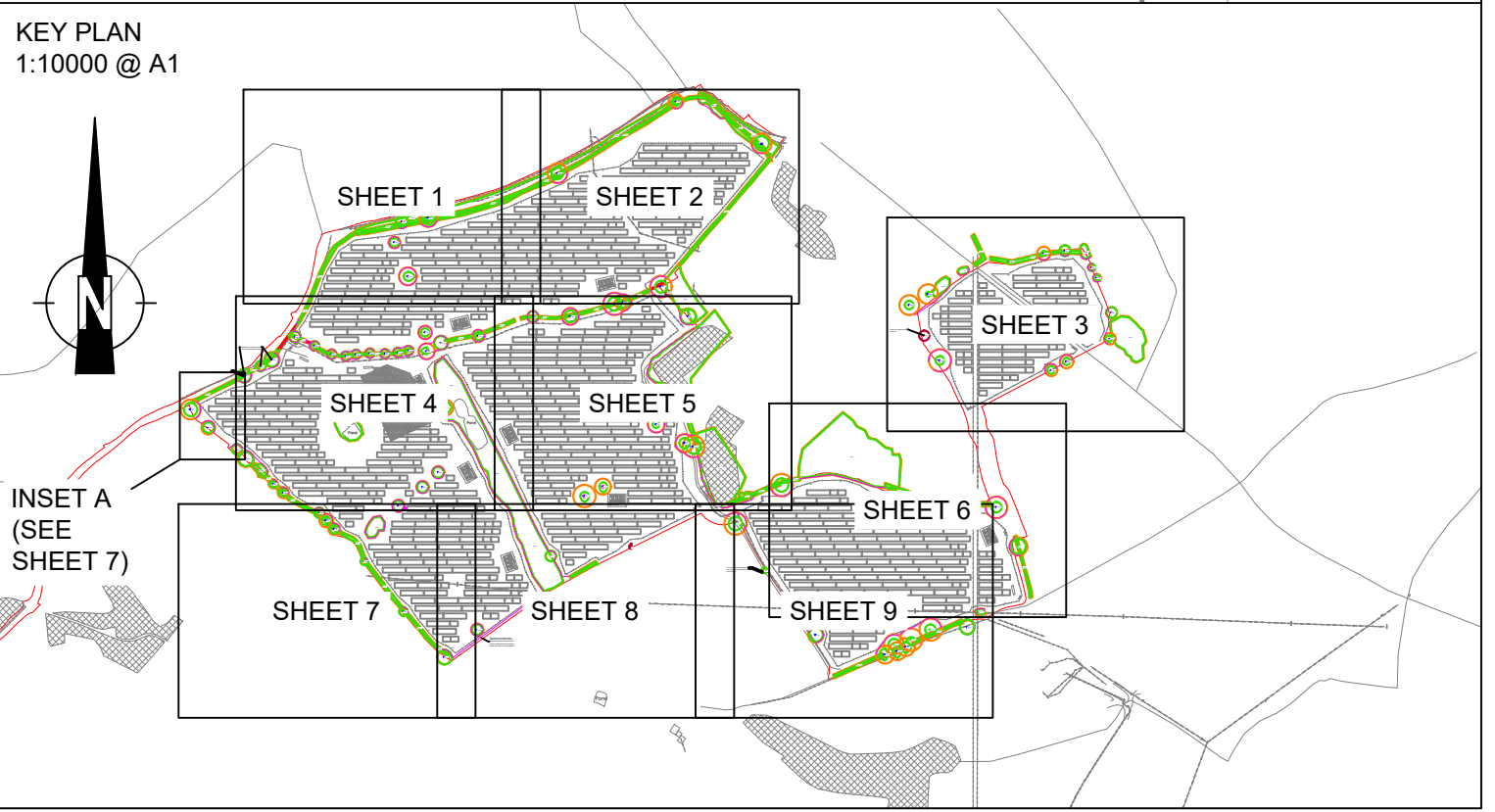
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250310-2.1-LSPE-TPRRP-MH-09

Client:
RWE

Agent:
AXIS

Date:
September 2025

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Appendix B

Tree Schedule & Tree Protection Retention and Removal Plan (Central)

Tree Categories

Tree Data

Table 1 Cascade Chart taken from BS5837:2012 Trees in Relation to Design, Demolition & Construction – Recommendations.

Butterfly Solar - Central - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G093	Pedunculate oak x3 (<i>Quercus robur</i>)	Height (m): 14 3 stems, avg.(mm): 800 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	3 x mature Oaks in hedgerow.	A2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G126	Pedunculate oak x2 (<i>Quercus robur</i>)	Height (m): 13 2 stems, avg.(mm): 600 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G127	Not identified x3 (<i>Not identified</i>)	Height (m): 18 3 stems, avg.(mm): 900 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Linear group of 3 mature Oak in hedgerow.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - Central - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G135	Pedunculate oak x6 (<i>Quercus robur</i>)	Height (m): 10 6 stems, avg.(mm): 500 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Linear group in hedgerow. Good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G136	Goat willow x3 (<i>Salix caprea</i>)	Height (m): 5 3 stems, avg.(mm): 150 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 0.5 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Group in wet ground.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G138	Common ash (<i>Fraxinus excelsior</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 5 2 stems, avg.(mm): 150 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 1.5 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Group in hedgerow.	C2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G142	Horse chestnut x2 (<i>Aesculus hippocastanum</i>)	Height (m): 13 2 stems, avg.(mm): 600 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 2 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Fair overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - Central - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G145	Aspen x20 (<i>Populus tremula</i>)	Height (m): 10 20 stems, avg.(mm): 150 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Linear group along hedgerow.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G147	Common hawthorn x5 (<i>Crataegus monogyna</i>)	Height (m): 8 5 stems, avg.(mm): 200 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Stand of Hawthorn, larger than general hedgerow. Fair/poor condition.	C2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G162	Pedunculate oak x5 (<i>Quercus robur</i>)	Height (m): 12 5 stems, avg.(mm): 600 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 2.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Group in good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - Central - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G179	Common ash (<i>Fraxinus excelsior</i>) Pedunculate oak (<i>Quercus robur</i>) Common hawthorn (<i>Crataegus monogyna</i>) Common beech (<i>Fagus sylvatica</i>)	Height (m): 20 Stem Diam(mm): 600 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Woodland character, Edge of site. Lower level in the middle. Some extraction in past.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G180	Goat willow (<i>Salix caprea</i>) Common hawthorn (<i>Crataegus monogyna</i>) Pedunculate oak (<i>Quercus robur</i>) Common ash (<i>Fraxinus excelsior</i>)	Height (m): 14 Stem Diam(mm): 400 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Fair overall Physiological and Structural condition. Woodland strip. Would benefit from thinning.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - Central - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G182	Common hawthorn (<i>Crataegus monogyna</i>) Common ash (<i>Fraxinus excelsior</i>) Other (<i>Other</i>) Pedunculate oak (<i>Quercus robur</i>)	Height (m): 6 Stem Diam(mm): 150 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 2 Life Stage: Semi Mature Rem. Contrib.: 20+ Years	Cleared ravine area with occasional early mature tree. Mostly younger colonising trees/self set.	C2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G184	Pedunculate oak x30 (<i>Quercus robur</i>)	Height (m): 10 30 stems, avg.(mm): 650 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Count is estimated. Good overall Physiological and Structural condition.Linear group of mature Oak, fragmented in places. Cleared area to North and East beyond group.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G185	Elder (<i>Sambucus nigra</i>) Common ash (<i>Fraxinus excelsior</i>)	Height (m): 1 2 stems, avg.(mm): 100 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 1 Life Stage: Semi Mature Rem. Contrib.: 10+ Years	2 x young trees in scrub hedge section.	C2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - Central - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G187	Pedunculate oak x7 (<i>Quercus robur</i>)	Height (m): 15 7 stems, avg.(mm): 650 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 2.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Linear group. Good/Fair/Poor overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G188	Pedunculate oak (<i>Quercus robur</i>) Common alder (<i>Alnus glutinosa</i>) Goat willow (<i>Salix caprea</i>) Common ash (<i>Fraxinus excelsior</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 16 Stem Diam(mm): 450 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3 Life Stage: Over Mature Rem. Contrib.: 20+ Years	Broadleaved group dropping into shallow ravine. Most of the Ash have Ash dieback disease.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G190	Common ash x2 (<i>Fraxinus excelsior</i>)	Height (m): 9 2 stems, avg.(mm): 200 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 2 Life Stage: Early Mature Rem. Contrib.: <10 years	Level 1 Ash dieback.	U	Pre construction: No action required. During construction: No action required. Post construction: No action required.

Butterfly Solar - Central - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G191	Common ash x3 (<i>Fraxinus excelsior</i>)	Height (m): 15 3 stems, avg.(mm): 450 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: <10 years	Level 1/2 Ash dieback.	U	Pre construction: No action required. During construction: No action required. Post construction: No action required.
G192	Pedunculate oak x4 (<i>Quercus robur</i>) Hazel x5 (<i>Corylus avellana</i>) Common ash x3 (<i>Fraxinus excelsior</i>) Common alder x5 (<i>Alnus glutinosa</i>)	Height (m): 12 17 stems, avg.(mm): 350 Spread (m): 4.5N, 4.5E, 4.5S, 4.5W Crown Clearance (m): 2 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G197	Common ash x2 (<i>Fraxinus excelsior</i>)	Height (m): 16 2 stems, avg.(mm): 700 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: <10 years	2 x mature Ash in decline. Inonotus hispidus fruiting body in crown. Dieback observed. Level 2 Ash dieback suspected.	C2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - Central - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G199	Pedunculate oak x3 (<i>Quercus robur</i>)	Height (m): 14 3 stems, avg.(mm): 750 Spread (m): 7.5N, 7.5E, 7.5S, 7.5W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Linear row of 3 mature Oaks in good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G200	Common ash x20 (<i>Fraxinus excelsior</i>) Other x20 (<i>Other</i>) Pedunculate oak x20 (<i>Quercus robur</i>)	Height (m): 15 60 stems, avg.(mm): 600 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Woodland character, Edge of field.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G203	Pedunculate oak x5 (<i>Quercus robur</i>)	Height (m): 15 5 stems, avg.(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 2.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Group in hedgerow in good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - Central - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G204	Pedunculate oak x3 (<i>Quercus robur</i>)	Height (m): 15 3 stems, avg.(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 2.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Group in hedgerow in good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G211	Common ash x4 (<i>Fraxinus excelsior</i>)	Height (m): 10 4 stems, avg.(mm): 300 Spread (m): 4.5N, 4.5E, 4.5S, 4.5W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 10+ Years	ong hedgerow. Fair overall Physiological and Structural condition.	C2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G214	Pedunculate oak x2 (<i>Quercus robur</i>)	Height (m): 14 2 stems, avg.(mm): 650 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Group of 2 in hedgerow in fair overall Physiological and Structural condition. Broken branch on south tree.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G216	Common alder x2 (<i>Alnus glutinosa</i>)	Height (m): 10 2 stems, avg.(mm): 400 Spread (m): 4.5N, 4.5E, 4.5S, 4.5W Crown Clearance (m): 2 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Good overall Physiological and Structural condition. In corner if field in hedgerow.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - Central - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G217	Oak (<i>Quercus sp.</i>) Common alder x2 (<i>Alnus glutinosa</i>) Other (<i>Other</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 5 2 stems, avg.(mm): 250 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Group forming hedge character. Most are early mature.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G220	Pedunculate oak x5 (<i>Quercus robur</i>)	Height (m): 17 5 stems, avg.(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Hedgerow group of mature Oak. Data represents largest tree in group.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G229	Pedunculate oak x2 (<i>Quercus robur</i>)	Height (m): 15 2 stems, avg.(mm): 650 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Group of 2 Oak in good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - Central - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G233	Pedunculate oak x2 (<i>Quercus robur</i>)	Height (m): 17 2 stems, avg.(mm): 650 Spread (m): 6.5N, 6.5E, 6.5S, 6.5W Crown Clearance (m): 2.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Group of 2 Oak in hedgerow. Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G242	Pedunculate oak x2 (<i>Quercus robur</i>)	Height (m): 13 2 stems, avg.(mm): 550 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Group in good overall Physiological and Structural condition with minor deadwood in crown.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G257	Pedunculate oak x2 (<i>Quercus robur</i>)	Height (m): 17 2 stems, avg.(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 20+ Years	Fair overall Physiological and Structural condition. Some major deadwood in crowns and 15% dieback.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G264	Pedunculate oak x3 (<i>Quercus robur</i>)	Height (m): 16 3 stems, avg.(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 20+ Years	Significant deadwood through crowns. Fair overall Physiological and Structural condition. Group of 3 in hedgerow. Ditch between trees and site.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - Central - BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G265	Guelder rose (<i>Viburnum opulus</i>) Blackthorn (<i>Prunus spinosa</i>) Other (<i>Other</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 2.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow. Deep ditch on site side.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
G267	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 650 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Two hedgerow Oaks in good overall Physiological and Structural condition. Minor deadwood through crowns.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G269	Pedunculate oak x2 (<i>Quercus robur</i>)	Height (m): 13 2 stems, avg.(mm): 900 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Group of 2 along scrub/fenceline. Deadwood through crowns. Edge of compacted track.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G272	Common alder (<i>Alnus glutinosa</i>) Common ash (<i>Fraxinus excelsior</i>) Pedunculate oak (<i>Quercus robur</i>) Goat willow (<i>Salix caprea</i>)	Height (m): 11 Stem Diam(mm): 400 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 20+ Years	Group around pond.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G276	Pedunculate oak x2 (<i>Quercus robur</i>)	Height (m): 18 2 stems, avg.(mm): 700 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. In hedgerow/edge of woodland group.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G286	Common alder x2 (<i>Alnus glutinosa</i>) Common ash x3 (<i>Fraxinus excelsior</i>)	Height (m): 10 5 stems, avg.(mm): 250 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: <10 years	Group in decline. Reason not evident.	C2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G287	Common ash (<i>Fraxinus excelsior</i>) Pedunculate oak x3 (<i>Quercus robur</i>) Common alder x3 (<i>Alnus glutinosa</i>)	Height (m): 9 7 stems, avg.(mm): 200 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: <10 years	Group growing in hedgerow, in decline. Reason not evident.	C2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G293	Goat willow x5 (<i>Salix caprea</i>) Pedunculate oak x5 (<i>Quercus robur</i>) Common hawthorn x5 (<i>Crataegus monogyna</i>)	Height (m): 16 15 stems, avg.(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Group around pond. Dimensions are based on larger trees (Oak) in group. Access restricted due to high crops at the time of the survey.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G295	Other (<i>Other</i>) Blackthorn (<i>Prunus spinosa</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 3 Stem Diam(mm): 80 Spread (m): 1.5N, 1.5E, 1.5S, 1.5W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G306	Pedunculate oak x2 (<i>Quercus robur</i>)	Height (m): 15 2 stems, avg.(mm): 700 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Group of 2 in hedgerow. Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G312	Goat willow x10 (<i>Salix caprea</i>) Elder (<i>Sambucus nigra</i>)	Height (m): 7 10 stems Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 20+ Years	Goat Willow around edge of dried up pond.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G313	Pedunculate oak x8 (<i>Quercus robur</i>)	Height (m): 13 8 stems, avg.(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 2.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Group around edge of copse.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G341	Common ash (<i>Fraxinus excelsior</i>) Pedunculate oak x3 (<i>Quercus robur</i>)	Height (m): 10 4 stems, avg.(mm): 750 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Linear group on hedgerow. Dimensions based on largest tree. No significant faults observed.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G342	Pedunculate oak x2 (<i>Quercus robur</i>)	Height (m): 16 2 stems, avg.(mm): 800 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Group of 2 Oaks in fenceline. Dimensions based on larger tree. Minor and major deadwood through crown.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G358	Goat willow (<i>Salix caprea</i>) Common alder (<i>Alnus glutinosa</i>) Common ash (<i>Fraxinus excelsior</i>) Common hawthorn (<i>Crataegus monogyna</i>) Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 500 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Woodland area in shallow ravine. Most Ash have Ash dieback disease.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G360	Leyland cypress x3 (X <i>Cuprocyparis leylandii</i>)	Height (m): 9 3 stems, avg.(mm): 300 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 2.5 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Row of 3 Cypress within/adjacent the hedge in 3rd party farm house grounds.	C2	Pre construction: Crown lift/prune back leaning Cypress tree (3rd party owned) to facilitate the visibility splay. During construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H092	Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>) Other (<i>Other</i>)	Height (m): 2 Stem Diam(mm): 100 Spread (m): 0.5N, 0.5E, 0.5S, 0.5W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	NotRecorded	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
H101	Field maple (<i>Acer campestre</i>) Hazel (<i>Corylus avellana</i>) Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>) Other (<i>Other</i>)	Height (m): 2.5 Stem Diam(mm): 150 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H105	Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>) Guelder rose (<i>Viburnum opulus</i>) Other (<i>Other</i>)	Height (m): 2.5 Stem Diam(mm): 100 Spread (m): 0.5N, 0.5E, 0.5S, 0.5W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed hedgerow.	NotRecorded	Pre construction: Remove section through H105 to facilitate perimeter fence and meadow. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H110	Other (Other) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 1.5 Stem Diam(mm): 100 Spread (m): 0.5N, 0.5E, 0.5S, 0.5W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed field boundary hedge section.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H114	Blackthorn (<i>Prunus spinosa</i>) Other (Other) Common hawthorn (<i>Crataegus monogyna</i>) Hazel (<i>Corylus avellana</i>)	Height (m): 2.5 Stem Diam(mm): 100 Spread (m): 0.5N, 0.5E, 0.5S, 0.5W Crown Clearance (m): 0.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	NotRecorded	Pre construction: Remove a section to facilitate infrastructure. No action required. During construction: No action required. Post construction: No action required.

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H134	<p>Gelder rose (<i>Viburnum opulus</i>)</p> <p>Sycamore (<i>Acer pseudoplatanus</i>)</p> <p>Goat willow (<i>Salix caprea</i>)</p> <p>Blackthorn (<i>Prunus spinosa</i>)</p> <p>Common hawthorn (<i>Crataegus monogyna</i>)</p> <p>Wild cherry (<i>Prunus avium</i>)</p>	<p>Height (m): 2.5</p> <p>Stem Diam(mm): 100</p> <p>Spread (m): 1N, 1E, 1S, 1W</p> <p>Crown Clearance (m): 0</p> <p>Life Stage: Mature</p> <p>Rem. Contrib.: 40+ Years</p>	Field hedgerow. Species rich. Managed along highway boundary.	NotRecorded	<p>Pre construction: Remove a section of the hedgerow, as shown on the plans to facilitate the visibility splay.</p> <p>During construction: No action required.</p> <p>Post construction: No action required.</p>
H137	<p>Other (<i>Other</i>)</p> <p>Common hawthorn (<i>Crataegus monogyna</i>)</p>	<p>Height (m): 2.5</p> <p>Stem Diam(mm): 100</p> <p>Spread (m): 1N, 1E, 1S, 1W</p> <p>Crown Clearance (m): 0.5</p> <p>Life Stage: Mature</p> <p>Rem. Contrib.: 40+ Years</p>	Hedgerow between field and dwelling.	NotRecorded	<p>Pre construction: No action required.</p> <p>During construction: No action required.</p> <p>Post construction: No action required.</p>
H143	<p>Common hawthorn (<i>Crataegus monogyna</i>)</p>	<p>Height (m): 2</p> <p>Stem Diam(mm): 80</p> <p>Spread (m): 0.5N, 0.5E, 0.5S, 0.5W</p> <p>Crown Clearance (m): 0</p> <p>Life Stage: Semi Mature</p> <p>Rem. Contrib.: 40+ Years</p>	Hedgerow between field and road.	NotRecorded	<p>Pre construction: No action required.</p> <p>During construction: No action required.</p> <p>Post construction: No action required.</p>

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H144	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 4 Stem Diam(mm): 100 Spread (m): 0.5N, 0.5E, 0.5S, 0.5W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Tall maintained hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H146	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Young/early mature managed hedge.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H149	Other (<i>Other</i>) Elm (<i>Ulmus sp.</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 2 Stem Diam(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed hedbetween field and road.	NotRecorded	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H150	Elder (<i>Sambucus nigra</i>) Guelder rose (<i>Viburnum opulus</i>) Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>) Other (<i>Other</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow section.	NotRecorded	Pre construction: Remove section to facilitate access as shown on the plans. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
H155	Blackthorn (<i>Prunus spinosa</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed hedge section. Mostly Blackthorn.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H159	Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed hedgerow.	C2	Pre construction: Remove swathe through H159 to facilitate access perimeter fence. During construction: No action required. Post construction: No action required.

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H164	Blackthorn (<i>Prunus spinosa</i>)	Height (m): 2 Stem Diam(mm): 50 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 20+ Years	Mostly Blackthorn. Managed hedge section.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H166	Blackthorn (<i>Prunus spinosa</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed hedge section.	NotRecorded	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
H172	Blackthorn (<i>Prunus spinosa</i>) Common hawthorn (<i>Crataegus monogyna</i>) Other (<i>Other</i>)	Height (m): 2.5 Stem Diam(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Mostly managed hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H178	Blackthorn (<i>Prunus spinosa</i>) Common hawthorn (<i>Crataegus monogyna</i>) Elder (<i>Sambucus nigra</i>)	Height (m): 2.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 20+ Years	Managed hedgerow. Mostly Blackthorn.	NotRecorded	Pre construction: Remove section of H0178 to facilitate access route. During construction: No action required. Post construction: No action required.

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H198	Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>)	Height (m): 2 Stem Diam(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed hedge. Fragmented in places.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H201	Blackthorn (<i>Prunus spinosa</i>) Other (<i>Other</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 2 Stem Diam(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H210	Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>)	Height (m): 2.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed field hedgerow section.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H213	Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>) Other (<i>Other</i>)	Height (m): 3 Stem Diam(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H219	Common alder (<i>Alnus glutinosa</i>) Common hawthorn (<i>Crataegus monogyna</i>) Wild cherry (<i>Prunus avium</i>) Elm (<i>Ulmus sp.</i>) Goat willow (<i>Salix caprea</i>) Other (<i>Other</i>)	Height (m): 6 Stem Diam(mm): 150 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Species rich, mature neglected hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H224	Field maple (<i>Acer campestre</i>) Common hawthorn (<i>Crataegus monogyna</i>) Hazel (<i>Corylus avellana</i>) Blackthorn (<i>Prunus spinosa</i>) Elm (<i>Ulmus sp.</i>)	Height (m): 3 Stem Diam(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H231	Blackthorn (<i>Prunus spinosa</i>) Hazel (<i>Corylus avellana</i>) Common hawthorn (<i>Crataegus monogyna</i>) Other (<i>Other</i>) Elder (<i>Sambucus nigra</i>)	Height (m): 3 Stem Diam(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	NotRecorded	Pre construction: Remove section through H231 to facilitate access track. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
H234	Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Scrub hedge section.	C2	Pre construction: Remove section through H234 to facilitate access track. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H238	Common ash (<i>Fraxinus excelsior</i>) Other (<i>Other</i>) Hazel (<i>Corylus avellana</i>) Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>)	Height (m): 2 Stem Diam(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years		NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H249	Blackthorn (<i>Prunus spinosa</i>) Other (<i>Other</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 2.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H261	Other (<i>Other</i>) Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>)	Height (m): 2.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H273	Common hawthorn (<i>Crataegus monogyna</i>) Other (<i>Other</i>) Blackthorn (<i>Prunus spinosa</i>)	Height (m): 2.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed hedge.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H277	Blackthorn (<i>Prunus spinosa</i>) Common hawthorn (<i>Crataegus monogyna</i>) Guelder rose (<i>Viburnum opulus</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed hedge section.	C2	Pre construction: Remove swathe through H277 to facilitate access perimeter fence. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
H280	Other (<i>Other</i>) Common hawthorn (<i>Crataegus monogyna</i>) Guelder rose (<i>Viburnum opulus</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed hedgerow section.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H282	Blackthorn (<i>Prunus spinosa</i>) Common hawthorn (<i>Crataegus monogyna</i>) Other (<i>Other</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed hedgerow section.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H288	Other (<i>Other</i>) Blackthorn (<i>Prunus spinosa</i>) Common hawthorn (<i>Crataegus monogyna</i>) Guelder rose (<i>Viburnum opulus</i>)	Height (m): 2.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	C2	Pre construction: Remove swathe through H288 to facilitate access perimeter fence. Remove section through H288 to facilitate access track. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
H292	Common hawthorn (<i>Crataegus monogyna</i>) Common ash (<i>Fraxinus excelsior</i>) Blackthorn (<i>Prunus spinosa</i>) Elder (<i>Sambucus nigra</i>)	Height (m): 3 Stem Diam(mm): 80 Spread (m): 1.5N, 1.5E, 1.5S, 1.5W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed hedgerow.	C2	Pre construction: Remove section of H292 to facilitate access track. During construction: No action required. Post construction: No action required.

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H305	Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>) Elder (<i>Sambucus nigra</i>) Sycamore (<i>Acer pseudoplatanus</i>) Other (<i>Other</i>)	Height (m): 2.5 Stem Diam(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed hedgerow.	NotRecorded	Pre construction: Remove section through H305 to facilitate access track. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
H309	Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>) Other (<i>Other</i>)	Height (m): 2.5 Stem Diam(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H317	Common hawthorn (<i>Crataegus monogyna</i>) Other (<i>Other</i>) Blackthorn (<i>Prunus spinosa</i>)	Height (m): 2.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H319	Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>) Other (<i>Other</i>)	Height (m): 2.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Fragmented hedgerow between field and adjacent property grounds.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H326	Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>) Other (<i>Other</i>) Guelder rose (<i>Viburnum opulus</i>)	Height (m): 3 Stem Diam(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H340	Common hawthorn (<i>Crataegus monogyna</i>) Other (<i>Other</i>) Blackthorn (<i>Prunus spinosa</i>) Guelder rose (<i>Viburnum opulus</i>)	Height (m): 2.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	C2	Pre construction: Remove a section of the hedge to facilitate access and the visibility splay. During construction: Protect with protective barriers - as shown on plans. Post construction: No action required.

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H345	Blackthorn (<i>Prunus spinosa</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 2.5 Stem Diam(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed hedge section.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H347	Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>) Other (<i>Other</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H353	Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed hedge section,	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H356	Blackthorn (<i>Prunus spinosa</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 2 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed hedge section,	NotRecorded	Pre construction: No action required. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H359	Common hawthorn (<i>Crataegus monogyna</i>) Blackthorn (<i>Prunus spinosa</i>) Other (<i>Other</i>)	Height (m): 2.5 Stem Diam(mm): 80 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Managed field hedgerow.	NotRecorded	Pre construction: Remove a section of the hedge, as shown on the plans to facilitate the visibility splay. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T094	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 5.5 Stem Diam(mm): 650 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Stunted height. Hedgerow tree. Ivy cover, Restricted observations.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T095	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 5.5 Stem Diam(mm): 650 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Stunted height. Hedgerow tree. Ivy cover, Restricted observations. Pollard origin.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T096	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 1250 Spread (m): 8N, 8E, 9S, 9W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 40+ Years	Epicormics and minor deadwood in crown.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T097	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 500 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 6 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T098	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 1300 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 6 Life Stage: Mature Rem. Contrib.: 40+ Years	Minor deadwood through crown, limited observations due to hedgerow.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T099	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 8 Stem Diam(mm): 700 Spread (m): 6N, 6E, 6S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Hedgerow tree. Observations are limited.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T100	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 750 Spread (m): 6N, 5.5E, 6.5S, 8.5W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 40+ Years	Hedgerow tree. Observations are limited.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T102	Goat willow (<i>Salix caprea</i>)	Height (m): 6 Stem Diam(mm): 400 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 20+ Years	Edge of hedgerow. Good overall Physiological and Structural condition.	C2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T103	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 800 Spread (m): 5N, 8E, 6S, 8W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Hedgerow tree. ivy, minor deadwood. Major deadwood. High habitat value.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T104	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 750 Spread (m): 6N, 8E, 6S, 8W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Hedgerow tree. Minor deadwood through crown. Fair overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T106	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 1000 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Hedgerow tree. Open crown, lower truncated branches. Deadwood throughout the crown.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T107	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 1000 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Hedgerow tree. Limited observations.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T108	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 19 Stem Diam(mm): 950 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T109	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 800 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 30+ Years	Minor deadwood through crown. Fair overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T111	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 20 Stem Diam(mm): 1500 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor deadwood through upper crown. Old pruning wounds on lower stem from crown lifting.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T112	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 750 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Deadwood through crown. Hedgerow tree.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T113	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 1000 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Hedgerow tree.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T115	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 19 Stem Diam(mm): 850 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition, truncated branches, previously crown lifted above field.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T116	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 600 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 20+ Years	Fair overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T117	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 800 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Previously crown lifted.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T118	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 800 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor deadwood through crown.	A	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T119	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 9.5 Stem Diam(mm): 500 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 2.5 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T120	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 850 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Minor deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T121	Not identified (<i>Not identified</i>)	Height (m): 19 Stem Diam(mm): 900 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Epicormics in crown, previously crown lifted.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T122	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 900 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Hedgerow tree. Access to inspect base not possible. Good overall Physiological and Structural condition. Some deadwood in crown.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T123	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 1200 Spread (m): 3N, 5E, 7S, 4W Crown Clearance (m): 3 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Deadwood in mid crown, . Hedgerow. Access to inspect base not possible. Fair overall Physiological and Structural condition. Epicormics through crown.	B2	Pre construction: No action required. During construction: Ground protection for construction traffic (see plans). Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T124	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 1280 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 3 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Adjacent highway. Old fungal fruiting body at base. Minor deadwood.	A1,2	Pre construction: Crown lift tree over highway to 5.2m to improve visibility from the new junction. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T125	Goat willow (<i>Salix caprea</i>)	Height (m): 4.5 5 stems, avg.(mm): 80 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 1 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Self set 3m from hedge.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T128	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 9 Stem Diam(mm): 700 Spread (m): 3N, 2E, 5S, 5W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 20+ Years	In hedgerow. Access to inspect base not possible. Fair overall Physiological and Structural condition. Unbalanced form.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T129	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 900 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	In hedgerow. Access to inspect base not possible. Good overall Physiological and Structural condition.	A2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T130	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 8 Stem Diam(mm): 450 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 2 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T132	Wild cherry (<i>Prunus avium</i>)	Height (m): 6.5 Stem Diam(mm): 250 Spread (m): 5N, 3E, 2S, 3W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Hedgerow tree in good overall Physiological and Structural condition.	C2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T133	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 700 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 20+ Years	In hedgerow. Poor overall Physiological and condition. Decline suspected.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T139	Apple (<i>Malus sp.</i>)	Height (m): 4.5 Stem Diam(mm): 200 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 20+ Years	In hedgerow. Observations are limited.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T140	Apple (<i>Malus sp.</i>)	Height (m): 4.5 Stem Diam(mm): 200 Spread (m): 5N, 5E, 2S, 2W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 20+ Years	In hedgerow. Observations are limited.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T141	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 14 Stem Diam(mm): 450 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: <10 years	Level 1/2 Ash dieback.	U	Pre construction: No action required. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T148	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 600 Spread (m): 5N, 5E, 6.5S, 5W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Hedgerow tree. Observations are limited.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T151	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 8.5 Stem Diam(mm): 540 Spread (m): 4N, 4E, 4S, 3W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 10+ Years	Storm damaged with regrowth. Major hollowing. Occluded sapwood.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T152	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 1000 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 20+ Years	Deadwood throughout crown. Fair overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T153	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 1000 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Hedgerow tree. Access to inspect base not possible.	B1,2	Pre construction: Lift crown over highway to 5.2m clearance for visibility splay. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T154	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 900 Spread (m): 5N, 5E, 7S, 5W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 20+ Years	Poor overall Physiological and Structural condition. High habitat value, with major deadwood.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T156	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 500 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 4 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Access to inspect base not possible. Hedgerow tree.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T157	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 750 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T158	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 950 Spread (m): 9N, 8E, 9S, 8W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T160	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 15 Stem Diam(mm): 820 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: <10 years	Level 1 Ash dieback suspected. Major decay in crown with high habitat value. Inonotus hispidus fruiting body in crown. High bat potential.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T161	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 8 Stem Diam(mm): 700 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 3 Life Stage: Dead	Dead tree with high bat use potential.	U	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T163	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 750 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor deadwood.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T165	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 550 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T167	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 900 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor deadwood.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T168	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 15 2 stems (mm): 650, 700 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: <10 years	Level 1 Ash dieback suspected. Co dominant stems. Decayed cavities. High bat use potential.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T169	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 20 Stem Diam(mm): 1500 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 3 Life Stage: Veteran Rem. Contrib.: 20+ Years	Broken branch, cavities with decay suspected. High habitat value. Epicormics in crown.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T170	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 1500 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Possibly a regrowth pollard. Deadwood through crown. Ivy. Access to inspect base not possible due to hedge.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T171	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 1500 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 4 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Deadwood through crown. Extensive Ivy cover. Access to inspect base not possible due to hedge.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T173	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 18 Stem Diam(mm): 700 Spread (m): 7N, 8E, 7S, 5W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 10+ Years	Extensive decay, with partially occluding cavities. Inonotus hispidus fruiting bodies present. High bat potential.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T174	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 750 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T175	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 1000 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Access to inspect base not possible.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T176	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 600 Spread (m): 7N, 3E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Access to inspect base not possible.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T177	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 9 Stem Diam(mm): 800 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor deadwood through crown. Ivy cover.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T181	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 14 Stem Diam(mm): 970 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 3 Life Stage: Over Mature Rem. Contrib.: 20+ Years	Deadwood and cavities through crown. Inonotus hispidus fruiting body. Woodpecker holes. High habitat value.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T183	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 12 2 stems (mm): 300, 300 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 10+ Years	Edge of ravine area, next to clearing/track. Arisings from previous extraction works present in area.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T186	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 850 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T189	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 13 Stem Diam(mm): 600 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: <10 years	Level 1/2 Ash dieback.	U	Pre construction: No action required. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T193	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 1100 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 3 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Access to inspect base not possible.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T194	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 650 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T195	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 650 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T196	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 850 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T205	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 700 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 20+ Years	Mostly dead with a branch of live growth at 2.5m. High habitat value. Strong major deadwood throughout crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T206	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 750 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T207	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 750 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor stem lean to east.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T208	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 750 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T209	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 8 Stem Diam(mm): 450 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T212	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 10 Stem Diam(mm): 230 Spread (m): 4.5N, 4.5E, 4.5S, 4.5W Crown Clearance (m): 4 Life Stage: Early Mature Rem. Contrib.: 10+ Years	Hedgerow tree. Fair overall Physiological and Structural condition.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T215	Goat willow (<i>Salix caprea</i>)	Height (m): 9 Stem Diam(mm): 520 Spread (m): 5N, 5E, 5S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T218	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 19 Stem Diam(mm): 500 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 10+ Years	Good overall Physiological and Structural condition.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T221	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 750 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Dense ivy cover. Minor deadwood.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T222	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 9 Stem Diam(mm): 600 Spread (m): 3.5N, 3.5E, 3.5S, 3.5W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Stunted growth with no obvious reason. Dense ivy cover.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T223	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 19 Stem Diam(mm): 700 Spread (m): 8.5N, 8.5E, 8.5S, 8.5W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T225	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 850 Spread (m): 8.5N, 8.5E, 8.5S, 8.5W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T226	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 800 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Several broken, hung up branches in crown. Fair overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T227	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 850 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Ivy cover and minor deadwood.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T228	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T230	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 6.5 Stem Diam(mm): 50 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Single mature Hawthorn, left to grow from hedgerow.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T232	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 800 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition with 2 x snapped limbs with high habitat value from past storm events.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T235	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 19 Stem Diam(mm): 800 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: <10 years	Poor overall Physiological and Structural condition. Level 2 Ash dieback.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T236	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 9 6 stems, avg.(mm): 200 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: <10 years	Multi stem establishing tree in hedgerow.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T237	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 800 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Dieback through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T239	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 800 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T240	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 16 Stem Diam(mm): 550 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 10+ Years	Fair overall Physiological and Structural condition. Ivy cover. Along hedgerow.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T241	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 650 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Snapped out limb laying in field to North.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T243	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 5 Stem Diam(mm): 750 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 20+ Years	Snapped at 5m in past storm event. Remaining living tree is decaying within the stem, with brown rot present, providing high habitat value.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T244	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 800 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition with some major deadwood throughout the crown providing high habitat value.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T245	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 20 Stem Diam(mm): 1500 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition with well balanced form.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T246	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 1100 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 20+ Years	Fair overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T247	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T248	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 6 Stem Diam(mm): 700 Spread (m): 4.5N, 3E, 3S, 3W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 20+ Years	Snapped at 6m in past storm event. Remaining tree is in fair overall Physiological and Structural condition. Hollowing in stem, providing high habitat value.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T250	Sycamore (<i>Acer pseudoplatanus</i>)	Height (m): 15 Stem Diam(mm): 700 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 10+ Years	Poor overall Physiological and Structural condition. Dieback in upper crown.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T251	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 2 stems (mm): 600, 700 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Co dominant stems, bifurcates at around 1.5m. Minor deadwood through crown. Fair overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T252	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 9 Stem Diam(mm): 1000 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 3 Life Stage: Veteran Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Extensive decay on South aspect of stem with high habitat value.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T253	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 750 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T254	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 650 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Broken branch on south aspect.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T255	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 750 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T256	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 7 Stem Diam(mm): 700 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 20+ Years	Poor overall Physiological and Structural condition. Recently snapped at 7m with arisings remaining on the ground.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T258	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 650 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Dense ivy cover and minor deadwood.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T259	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 650 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor deadwood and a broken branch over track.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T260	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 650 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Ivy cover and minor deadwood.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T262	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 850 Spread (m): 8.5N, 8.5E, 8.5S, 8.5W Crown Clearance (m): 4.5 Life Stage: Mature Rem. Contrib.: 20+ Years	Deadwood through crown with some dieback. Fair overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T263	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 650 Spread (m): 6N, 8E, 6S, 6W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 20+ Years	Fair overall Physiological and Structural condition. Broken branch, deadwood mainly on west aspect.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T266	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 1000 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Deep ditch between tree and field. Minor deadwood through crown.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T268	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 950 Spread (m): 8N, 6E, 7S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Along fenceline. Some previous truncated branches. Minor deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T270	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 650 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Some dieback in Upper crown. On edge of compacted track.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T271	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 650 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Some dieback in Upper crown. On edge of compacted track.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T274	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 10 Stem Diam(mm): 250 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 2.5 Life Stage: Early Mature Rem. Contrib.: <10 years	Fair overall Physiological and Structural condition. Hedgerow tree.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T278	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 800 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T279	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 650 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Minor deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T281	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 1300 Spread (m): 9N, 9E, 9S, 11W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T283	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 1200 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Deadwood through crown.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T284	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 700 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 20+ Years	Fair overall Physiological and Structural condition. Deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T285	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 850 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. In hedgerow, Ivy cover, minor deadwood.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T289	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 1000 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Hedgerow tree.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T290	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 700 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Hedgerow tree.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T291	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 19 Stem Diam(mm): 850 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor broken branches and deadwood in crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T294	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 7 Stem Diam(mm): 350 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T296	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 1100 Spread (m): 8N, 9E, 8S, 8W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor deadwood and broken branches present.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T297	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 1000 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition with a large open cavity and localised decay on North aspect of stem.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T298	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 750 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Surveyed from a distance due to access at time of survey (tall crop). Dimensions are estimated. Fair overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T299	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 750 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Surveyed from a distance due to access at time of survey (tall crop). Dimensions are estimated. Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T300	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 500 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T301	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 500 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T302	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 500 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 4 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Dieback through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T303	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 1100 Spread (m): 8N, 8E, 10S, 8W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 20+ Years	Major deadwood throughout crown. Fair overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T304	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 1100 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 20+ Years	Major deadwood throughout crown. Fair overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T307	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 700 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition.some truncated branches on North side. Ivy cover.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T308	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 17 Stem Diam(mm): 750 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T310	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 800 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Dense ivy cover. Deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T311	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 1100 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Off corner of site,	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T314	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 19 Stem Diam(mm): 1200 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4.5 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Deadwood through crown. Ivy cover on stem. Adjacent double gateway.	A1,2	Pre construction: Lift crown over highway to 5.2m clearance for visibility splay. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T315	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 800 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological hysiological and Structural condition. Dense ivy cover. Some deadwood through crown. Tree in hedgerow. Access to inspect base not possible.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T316	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 800 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Ivy cover and deadwood through crown. Hedgerow tree. Access to inspect base not possible.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T318	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 1200 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Compartmentalised decay at base observed. Dense ivy cover. Deadwood throughout crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T320	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 1100 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Some minor defects around base. Deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T321	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 18 Stem Diam(mm): 1000 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T322	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 19 Stem Diam(mm): 1100 Spread (m): 10N, 10E, 10S, 10W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor deadwood through crown. Ivy cover. Access to inspect base not possible.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T323	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 8 Stem Diam(mm): 1100 Spread (m): 7N, 3E, 3S, 8W Crown Clearance (m): 3 Life Stage: Mature	Recently dead veteran. High habitat value. Retain as monolith for habitat. High bat potential.	U	Pre construction: No action required. During construction: No action required. Post construction: No action required.
T324	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 650 Spread (m): 4N, 7E, 5S, 5W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Hedgerow tree. Access to inspect base not possible. Minor deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T325	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 8 Stem Diam(mm): 400 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Establishing hedgerow tree. Good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T327	Field maple (<i>Acer campestre</i>)	Height (m): 8 Stem Diam(mm): 400 Spread (m): 3N, 4E, 4S, 4W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Establishing hedgerow tree. Good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T328	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 8 Stem Diam(mm): 400 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Establishing hedgerow tree. Good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T329	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 700 Spread (m): 4N, 6E, 5S, 4W Crown Clearance (m): 6 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Decaying deadwood in crown. Hedgerow tree. Access to inspect base not possible.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T330	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 650 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Hedgerow tree. Minor deadwood through crown. Ivy cover. Access to inspect base not possible.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T331	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 5 Stem Diam(mm): 400 Spread (m): 3.5N, 3.5E, 3.5S, 3.5W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Establishing hedgerow tree. Good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T332	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 5 Stem Diam(mm): 300 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: <10 years	Establishing hedgerow tree. Good overall Physiological and Structural condition.	C2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T333	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 11 Stem Diam(mm): 700 Spread (m): 5N, 5E, 7S, 5W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 10+ Years	Corner of field in hedgerow. Major extensive decay 0-4m. High habitat value.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T334	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 16 Stem Diam(mm): 850 Spread (m): 7N, 5E, 4.5S, 6W Crown Clearance (m): 4 Life Stage: Veteran Rem. Contrib.: 20+ Years	Broken branches. Fungal fruiting bodies, major decay, open cavities. Mature epicormic shoots.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T335	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 700 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T336	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 12 Stem Diam(mm): 400 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 2.5 Life Stage: Early Mature Rem. Contrib.: <10 years	Fair overall Physiological and Structural condition. Ivy cover. Hedgerow tree. Level 1 Ash dieback suspected.	C2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T337	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 900 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 3.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Hedgerow tree. Access to inspect base not possible.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T338	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 6 Stem Diam(mm): 250 Spread (m): 4N, 4E, 3S, 1W Crown Clearance (m): 2.5 Life Stage: Early Mature Rem. Contrib.: <10 years	Dense ivy cover. Poor form.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T339	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 800 Spread (m): 8N, 7E, 9S, 7W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Broken branch over field. Minor deadwood through crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T343	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 4.5 Stem Diam(mm): 300 Spread (m): 3.5N, 3.5E, 3.5S, 3.5W Crown Clearance (m): 3 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Establishing hedgerow tree. Good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T344	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 700 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T346	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 900 Spread (m): 9N, 8E, 9S, 8W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor deadwood through crown.	B	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T348	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 650 Spread (m): 5N, 6E, 6S, 5W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 40+ Years	Edge of track in hedgerow. Deadwood through crown. No significant faults observed.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T349	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 650 Spread (m): 4N, 4E, 6S, 3W Crown Clearance (m): 5 Life Stage: Mature Rem. Contrib.: 40+ Years	Edge of track in hedgerow. Ivy cover. Suppressed form under adjacent tree.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T350	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 650 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Edge of track in hedgerow.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T351	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 650 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 20+ Years	Edge of track in hedgerow. Dieback through crown.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T352	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 1500 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Minor deadwood through crown.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T354	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 1000 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Minor deadwood through crown.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T355	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 700 Spread (m): 5N, 7E, 5S, 5W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Old storm damage in upper crown. Unbalanced form.	B	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T357	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 790 Spread (m): 7.5N, 7.5E, 7.5S, 7.5W Crown Clearance (m): 2.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Die back in Upper crown. Deadwood through crown. Fair overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

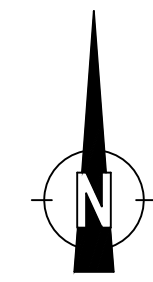
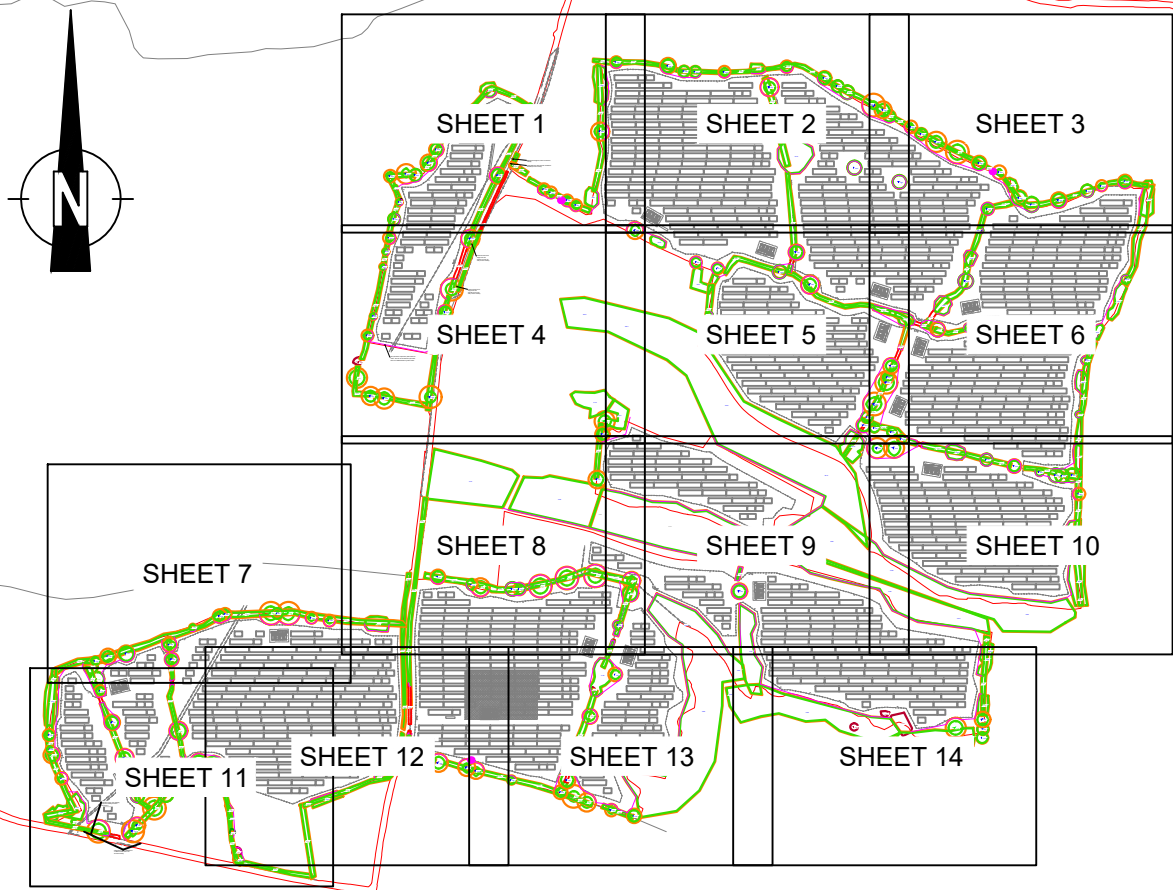
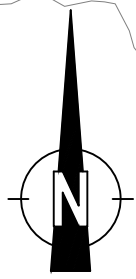
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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T358	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 950 Spread (m): 5N, 5E, 6.5S, 5W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Some deadwood in crown.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
W275	Sycamore (<i>Acer pseudoplatanus</i>) Common ash (<i>Fraxinus excelsior</i>) Common hawthorn (<i>Crataegus monogyna</i>) Pedunculate oak (<i>Quercus robur</i>) Other (<i>Other</i>) Wild cherry (<i>Prunus avium</i>)	Height (m): 18 Stem Diam(mm): 450 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 40+ Years	Woodland belt. Good overall Physiological and Structural condition. Ash are beginning to become diseased with Ash dieback.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

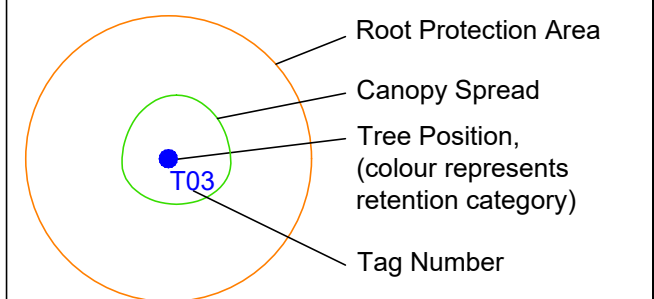
Table 1 Cascade chart for tree quality assessment

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	<ul style="list-style-type: none">Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)Trees that are dead or are showing signs of significant, immediate, and irreversible overall declineTrees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality <p><i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i></p>			See Table 2
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
Trees to be considered for retention				
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	See Table 2
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	See Table 2
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	See Table 2

KEY PLAN
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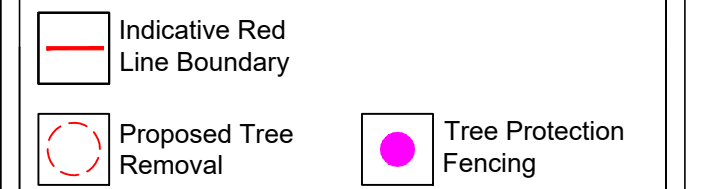
Symbol Guide



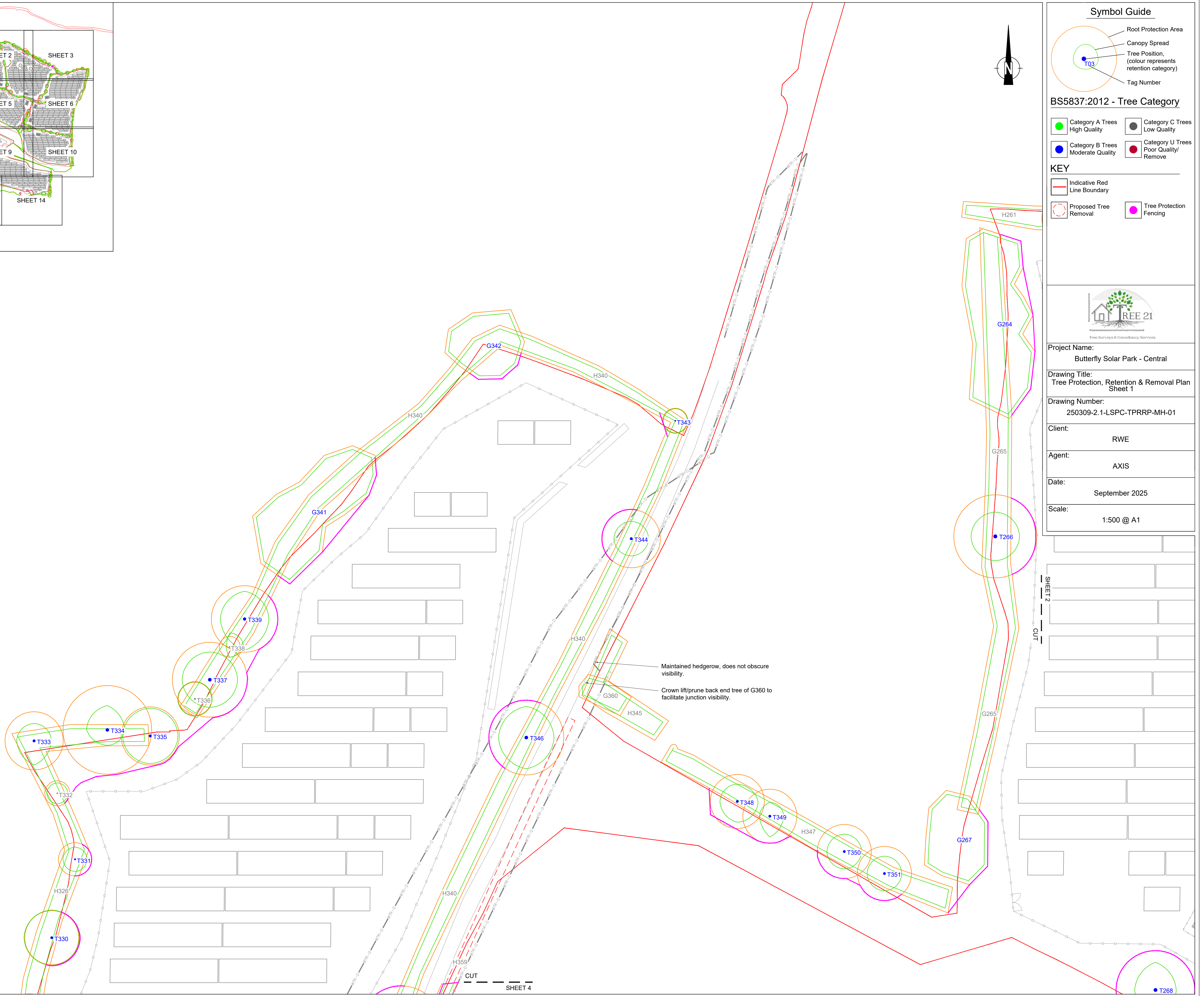
BS5837:2012 - Tree Category



KEY

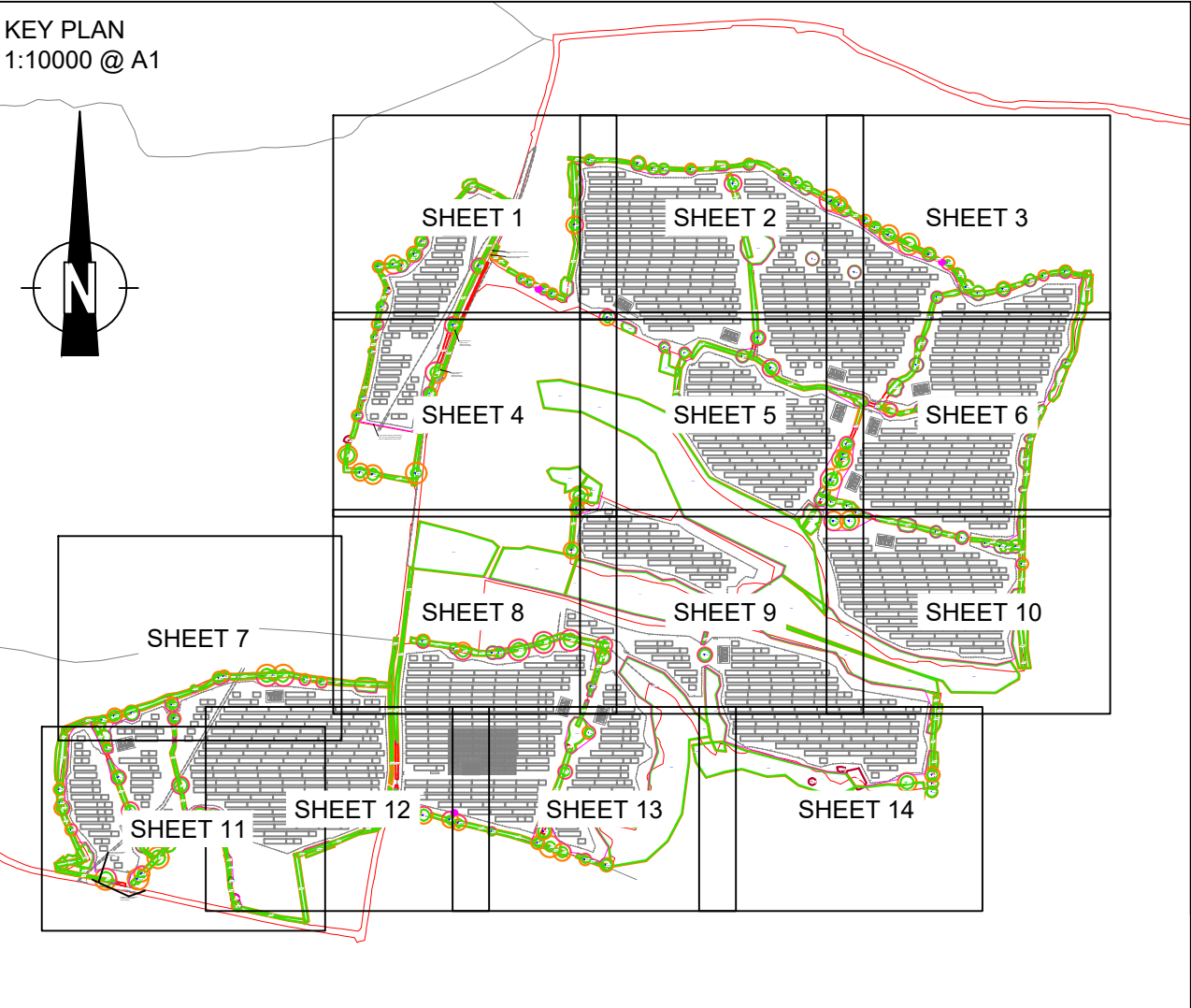
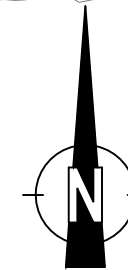


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Drawing Title:	Tree Protection, Retention & Removal Plan Sheet 1
Drawing Number:	250309-2.1-LSPC-TPRRP-MH-01
Client:	RWE
Agent:	AXIS
Date:	September 2025
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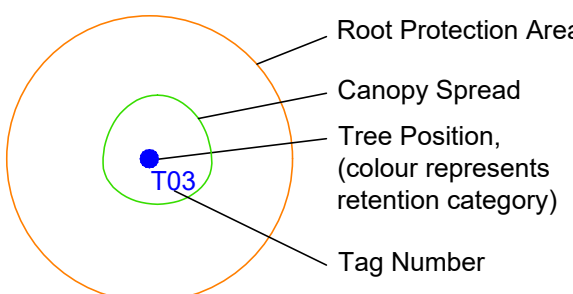




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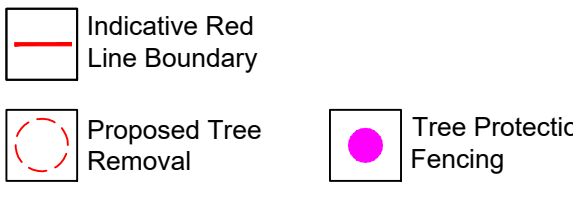
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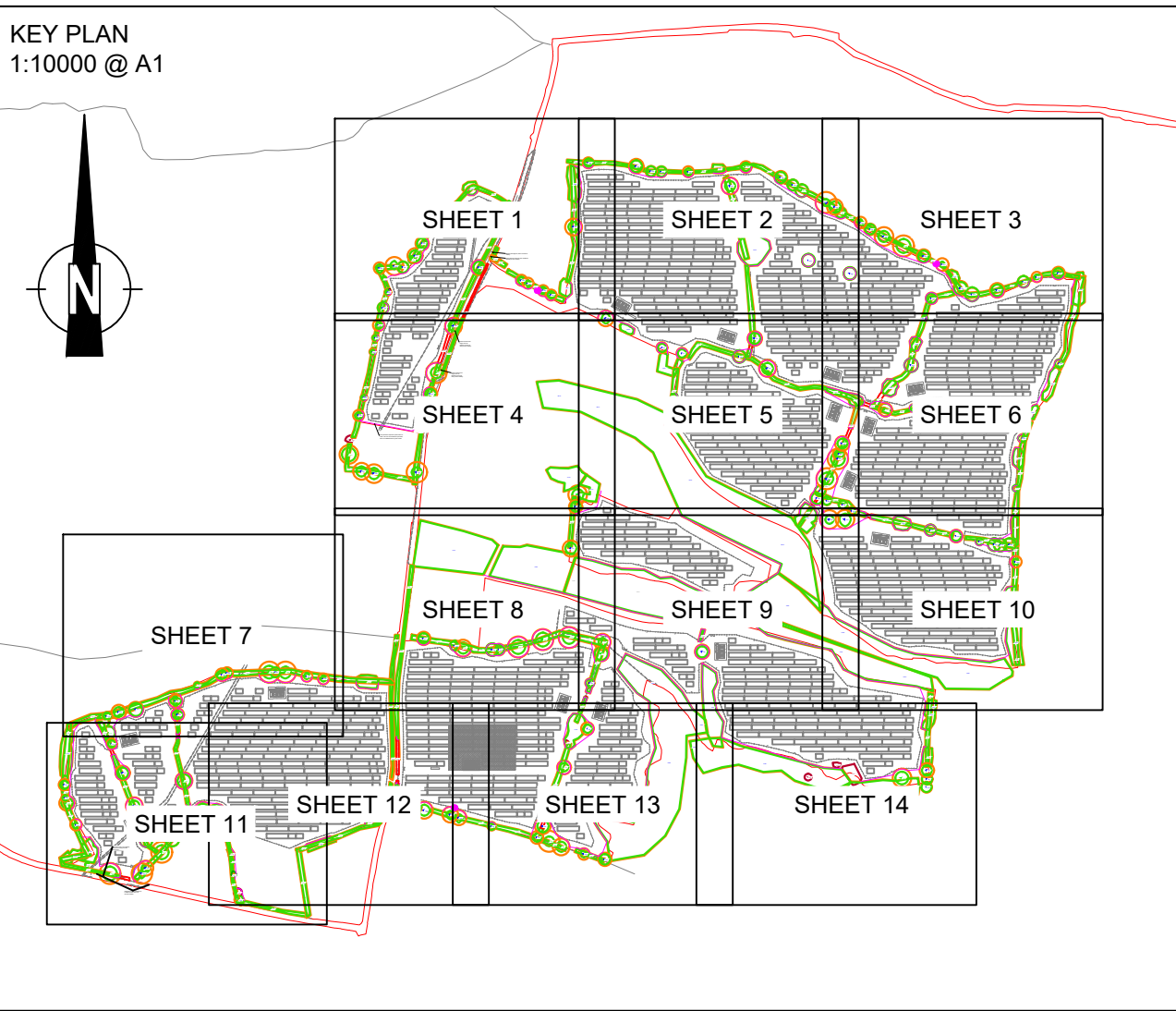
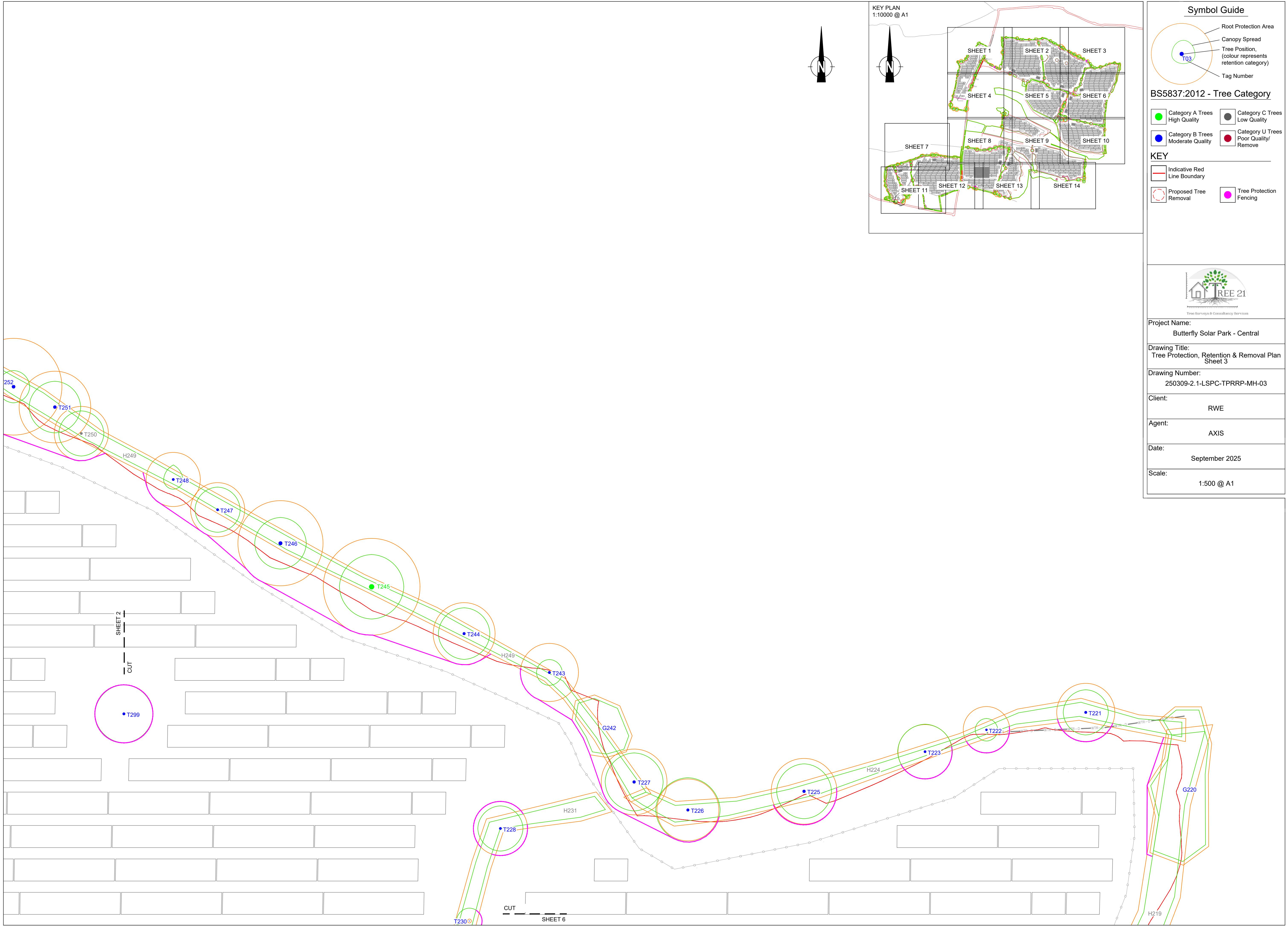
BS5837:2012 - Tree Category



KEY



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Drawing Title:	Tree Protection, Retention & Removal Plan Sheet 2
Drawing Number:	250309-2.1-LSPC-TPRRP-MH-02
Client:	RWE
Agent:	AXIS
Date:	September 2025
Scale:	1:500 @ A1



Symbol Guide

- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/ Remove

KEY

Indicative Red Line Boundary	Tree Protection Fencing
Proposed Tree Removal	

Project Name:
Butterfly Solar Park - Central

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 3

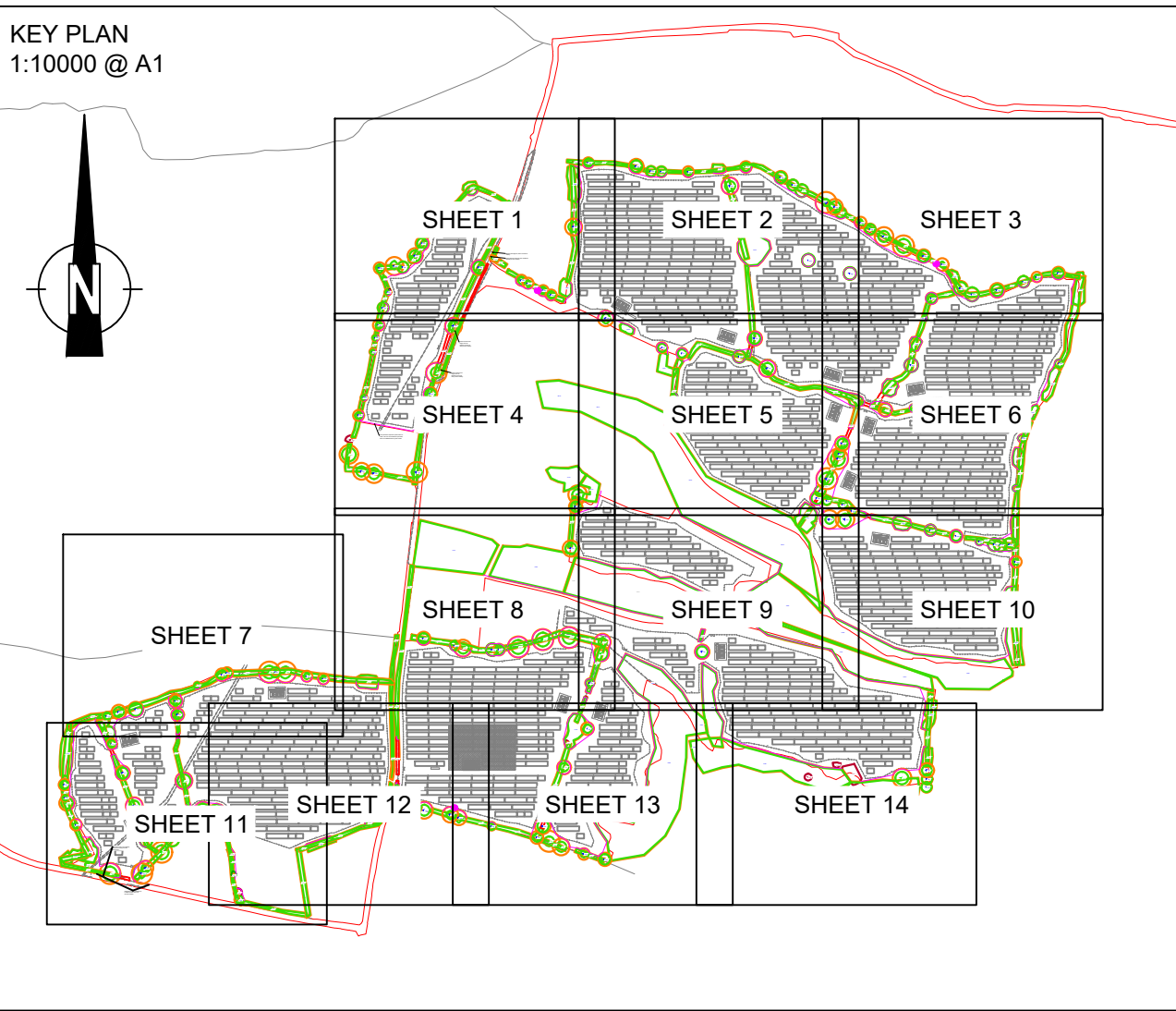
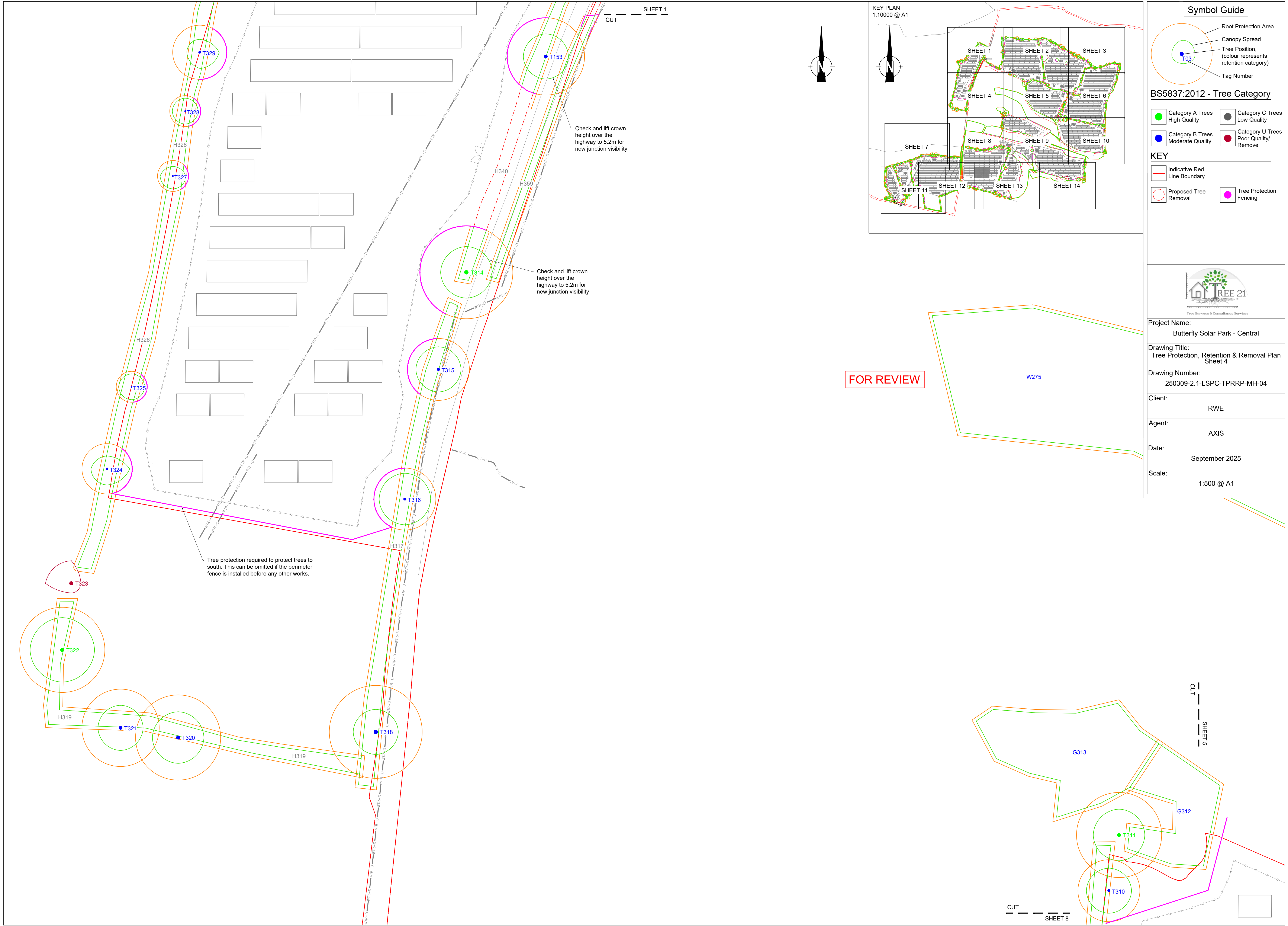
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Client:
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Agent:
AXIS

Date:
September 2025

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Symbol Guide

- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/Remove

KEY

Indicative Red Line Boundary	Tree Protection Fencing
Proposed Tree Removal	

Tree Surveys & Consultancy Services

Project Name:
Butterfly Solar Park - Central

Drawing Title:
Tree Protection, Retention & Removal Plan Sheet 4

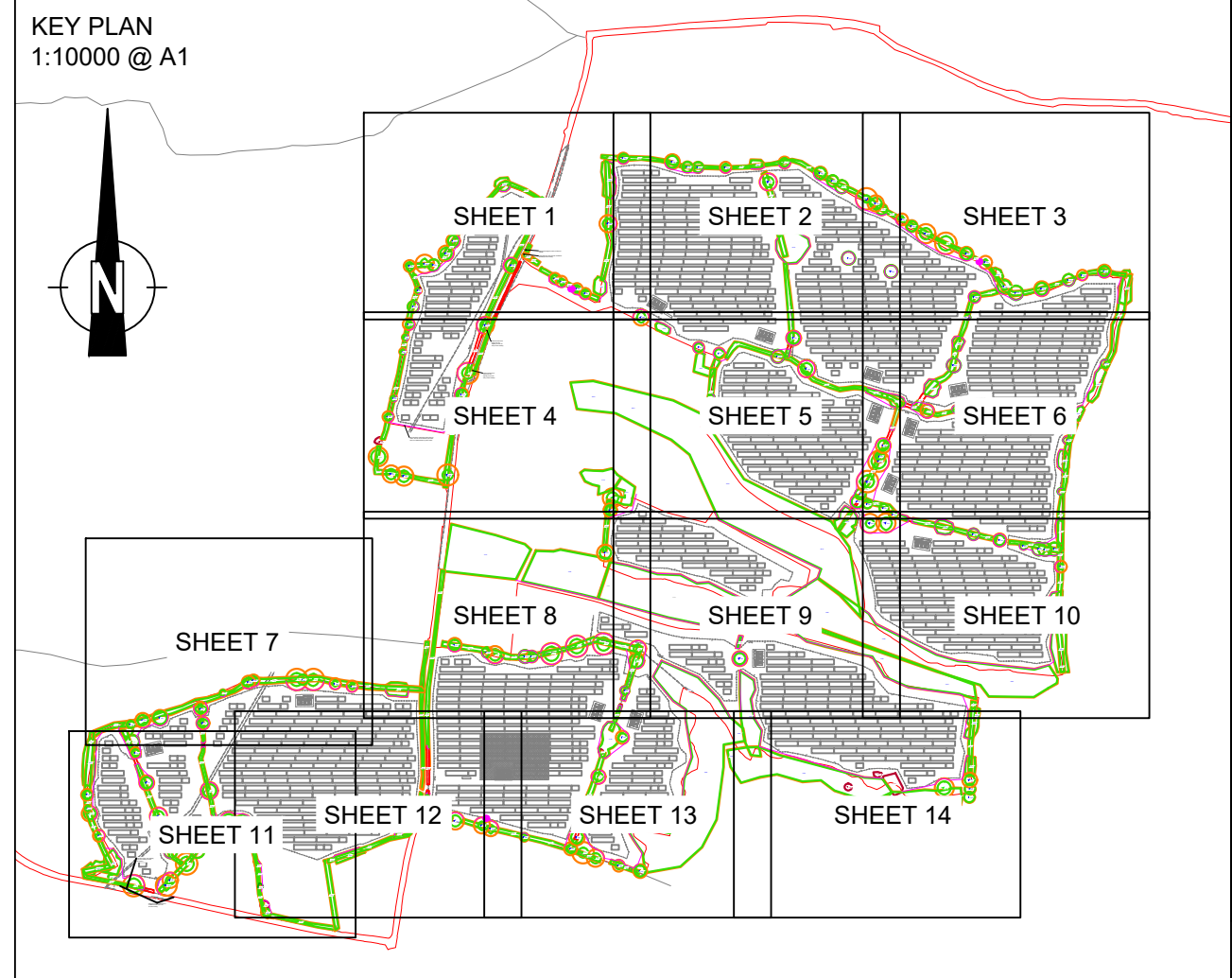
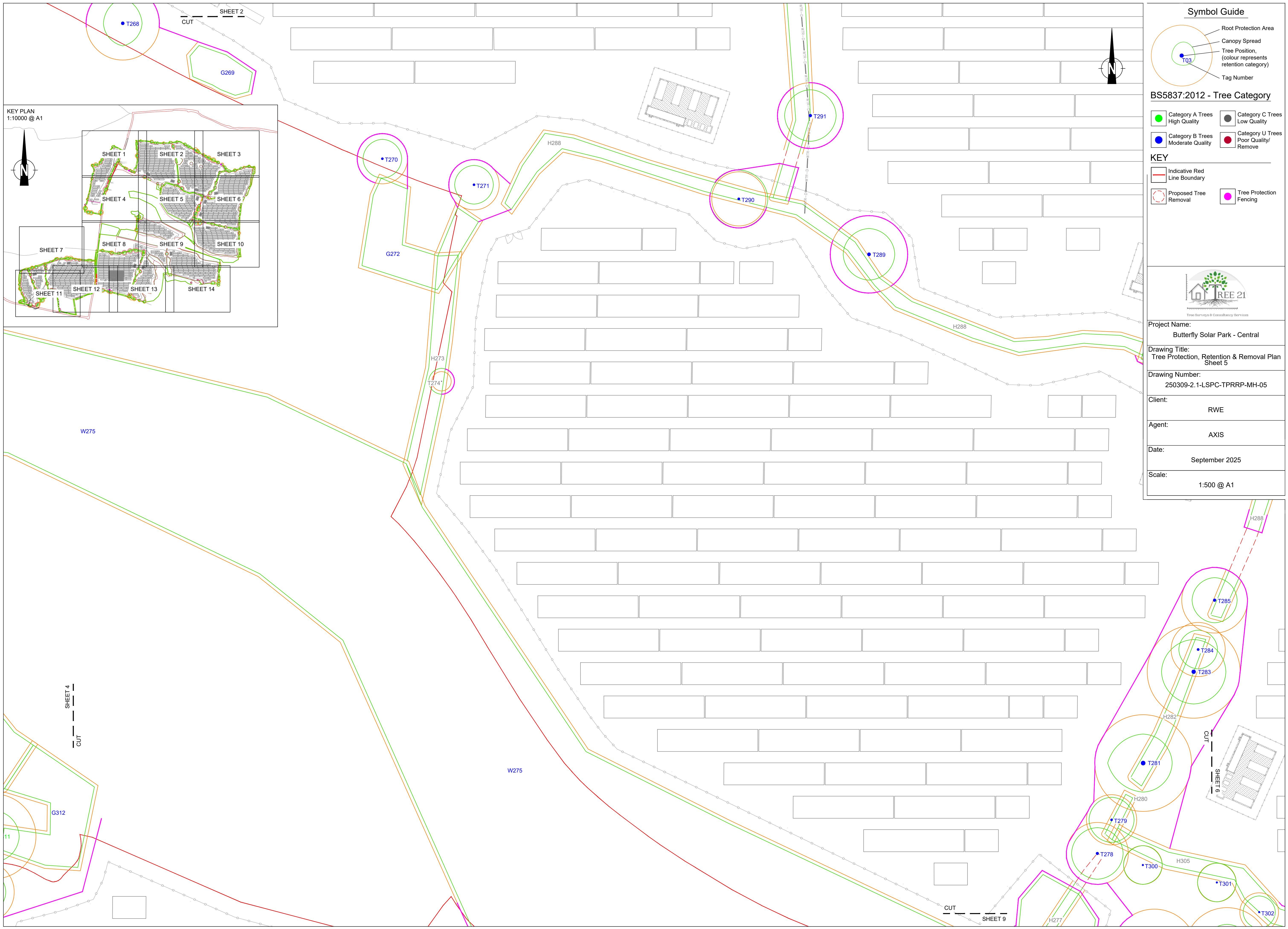
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Client:
RWE

Agent:
AXIS

Date:
September 2025

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Symbol Guide

- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/ Remove

KEY

Indicative Red Line Boundary	Tree Protection Fencing
Proposed Tree Removal	

Tree Surveys & Consultancy Services

Project Name:
Butterfly Solar Park - Central

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 5

Drawing Number:
250309-2.1-LSPC-TPRRP-MH-05

Client:
RWE

Agent:
AXIS

Date:
September 2025

Scale:
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Symbol Guide

- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/ Remove

KEY

Indicative Red Line Boundary	Tree Protection Fencing
Proposed Tree Removal	

Tree Surveys & Consultancy Services

Project Name:
Butterfly Solar Park - Central

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 6

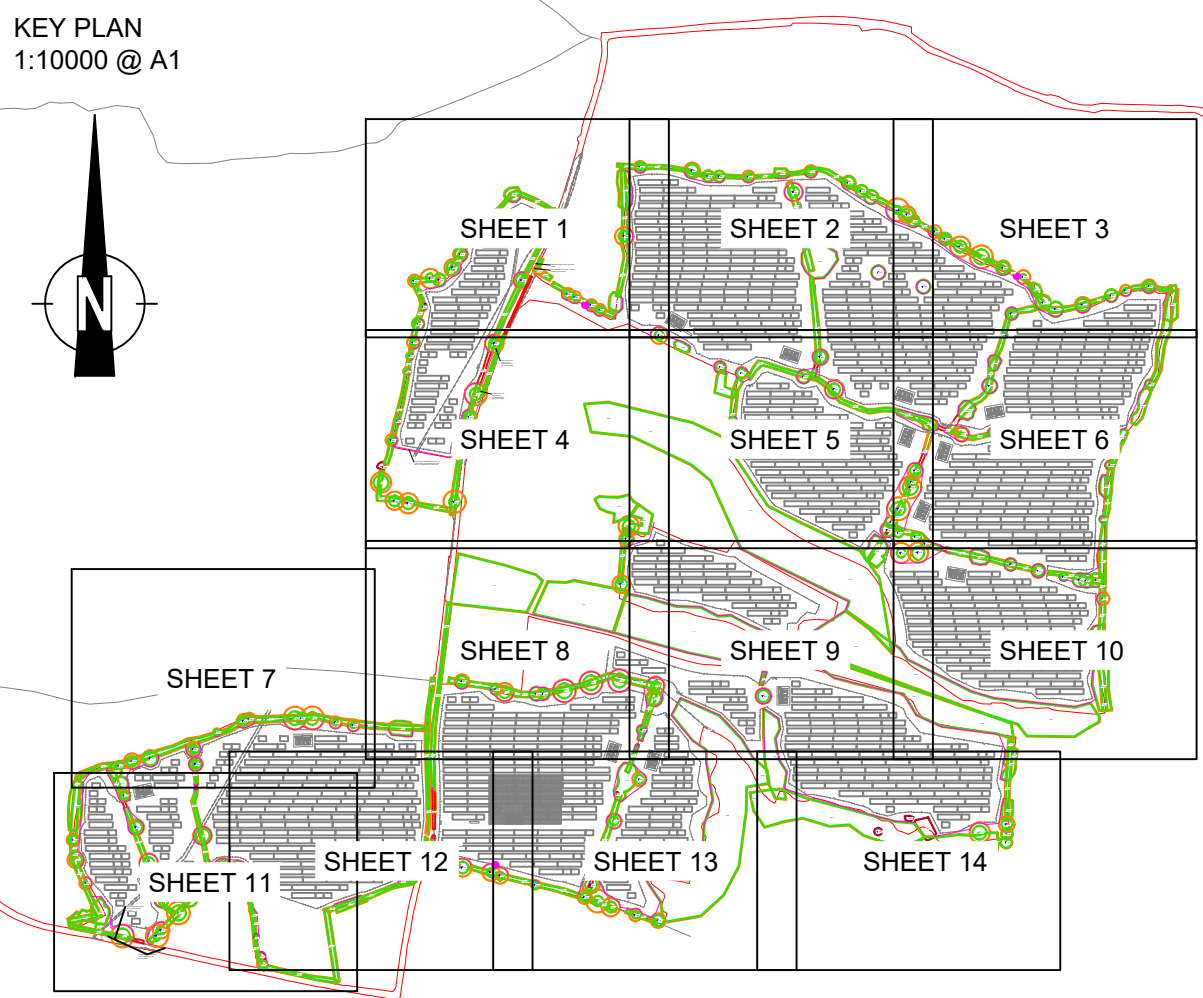
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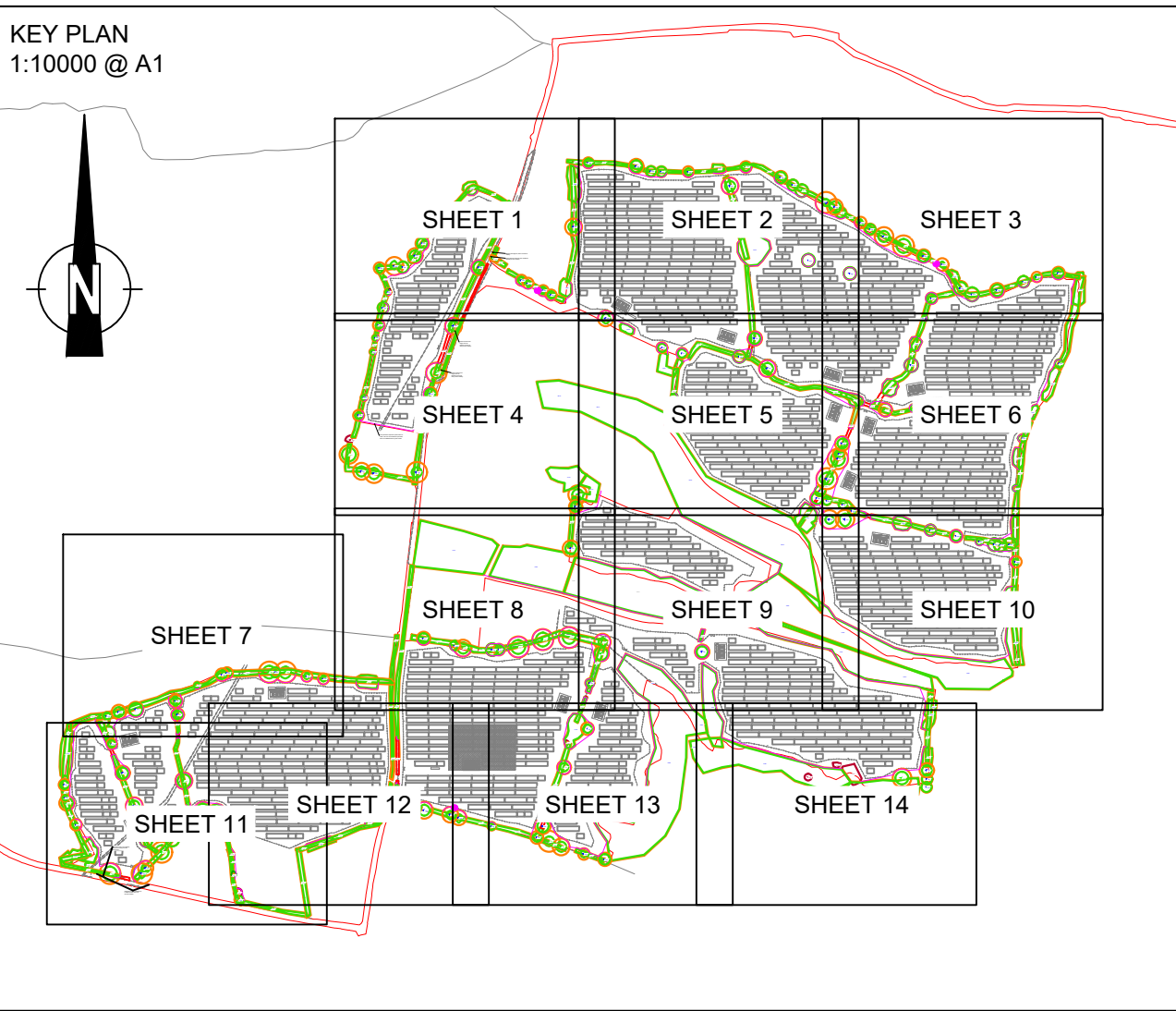
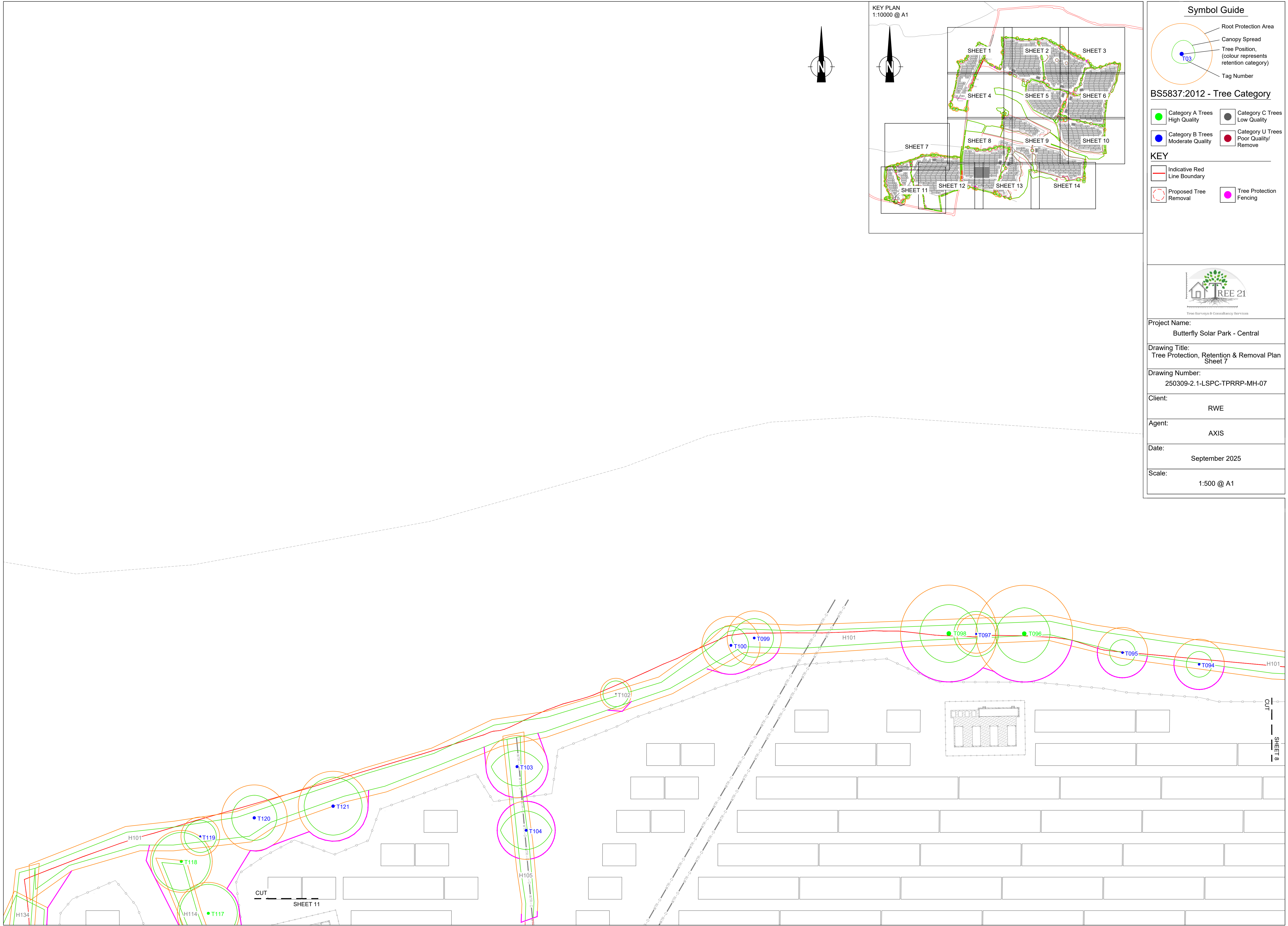
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Symbol Guide

- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/ Remove

KEY

Indicative Red Line Boundary	Tree Protection Fencing
Proposed Tree Removal	

TREE 21
Tree Surveys & Consultancy Services

Project Name:
Butterfly Solar Park - Central

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 7

Drawing Number:
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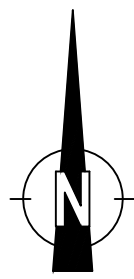
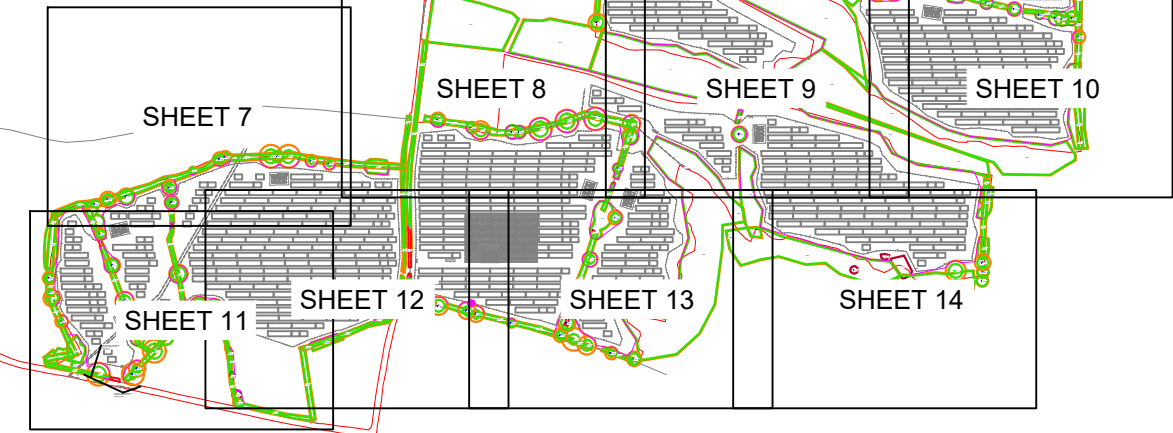
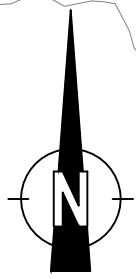
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Date:
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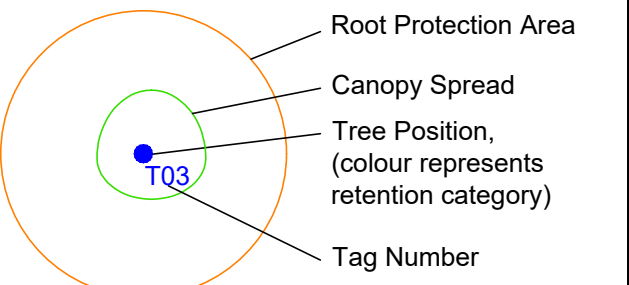
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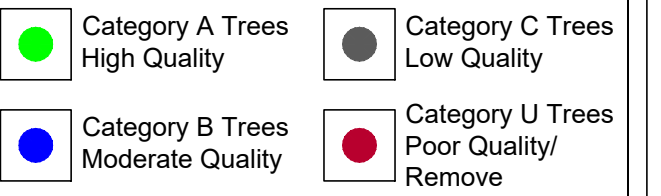


SHEET 4
CUT

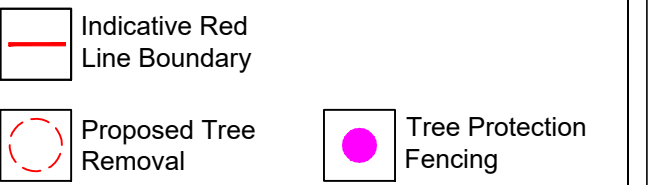
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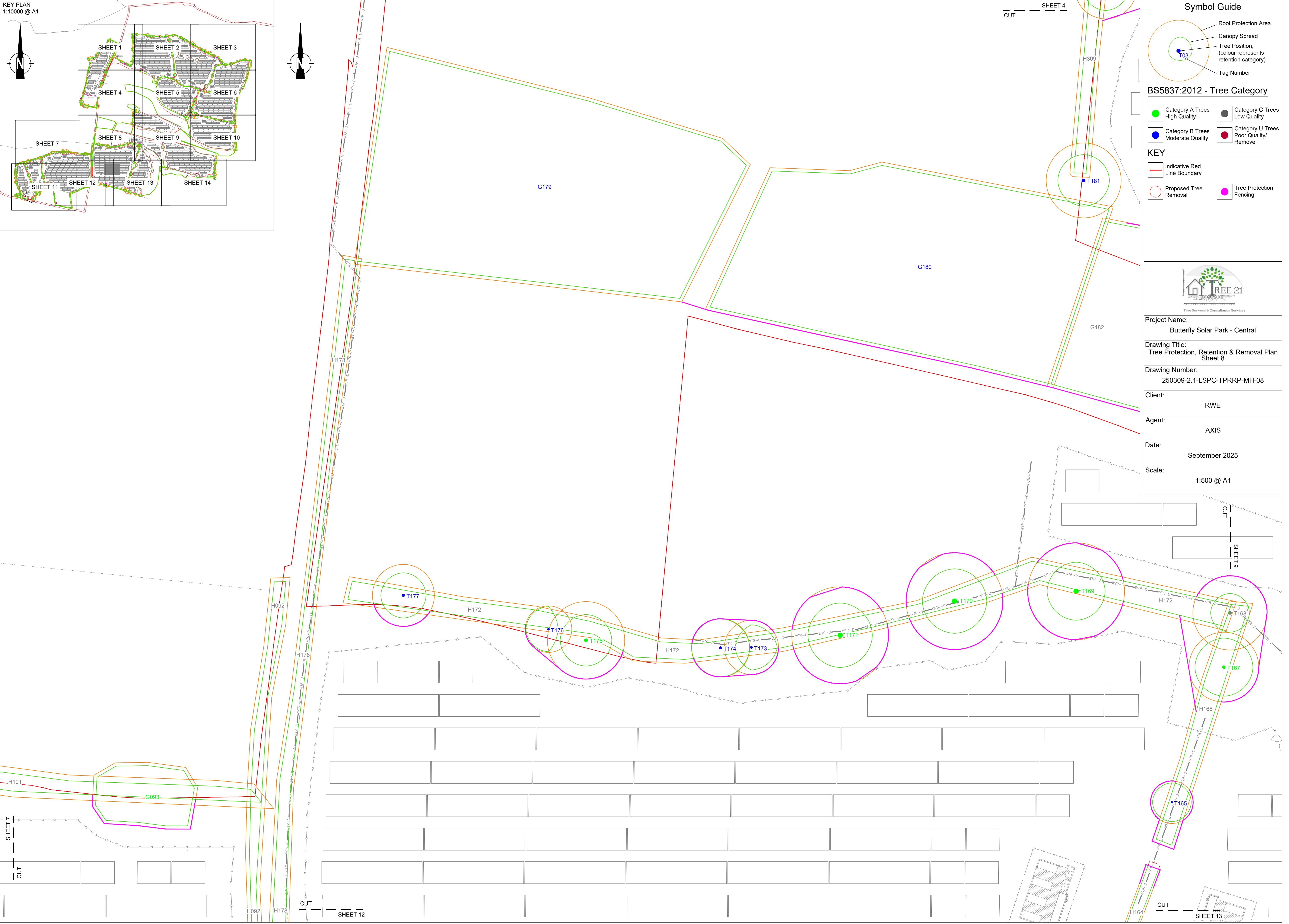
BS5837:2012 - Tree Category



KEY



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Drawing Title:	Tree Protection, Retention & Removal Plan Sheet 8
Drawing Number:	250309-2.1-LSPC-TPRRP-MH-08
Client:	RWE
Agent:	AXIS
Date:	September 2025
Scale:	1:500 @ A1





Symbol Guide

- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/Remove

KEY

Indicative Red Line Boundary	Tree Protection Fencing
Proposed Tree Removal	

Project Name: Butterfly Solar Park - Central

Drawing Title: Tree Protection, Retention & Removal Plan Sheet 9

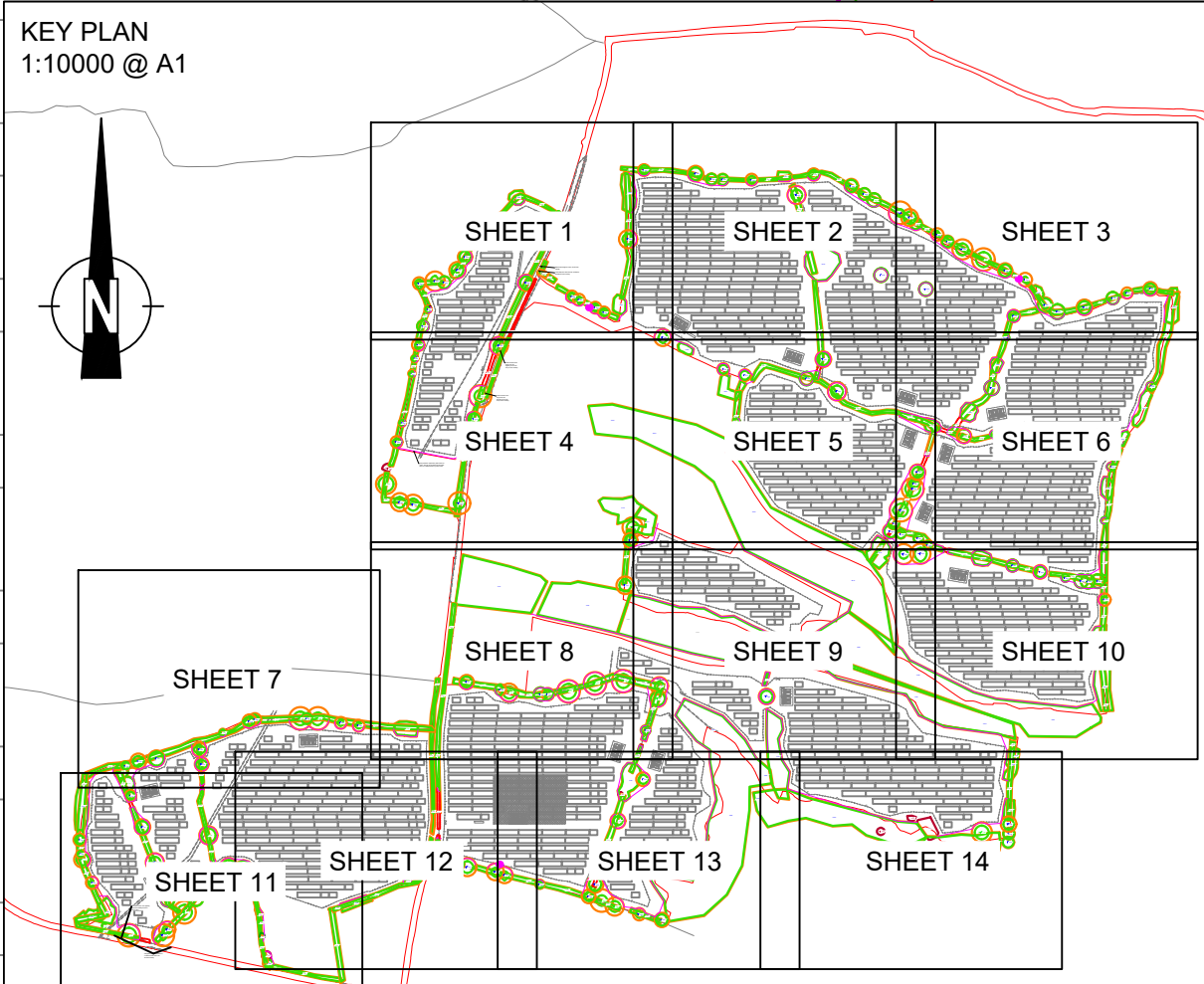
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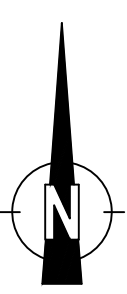
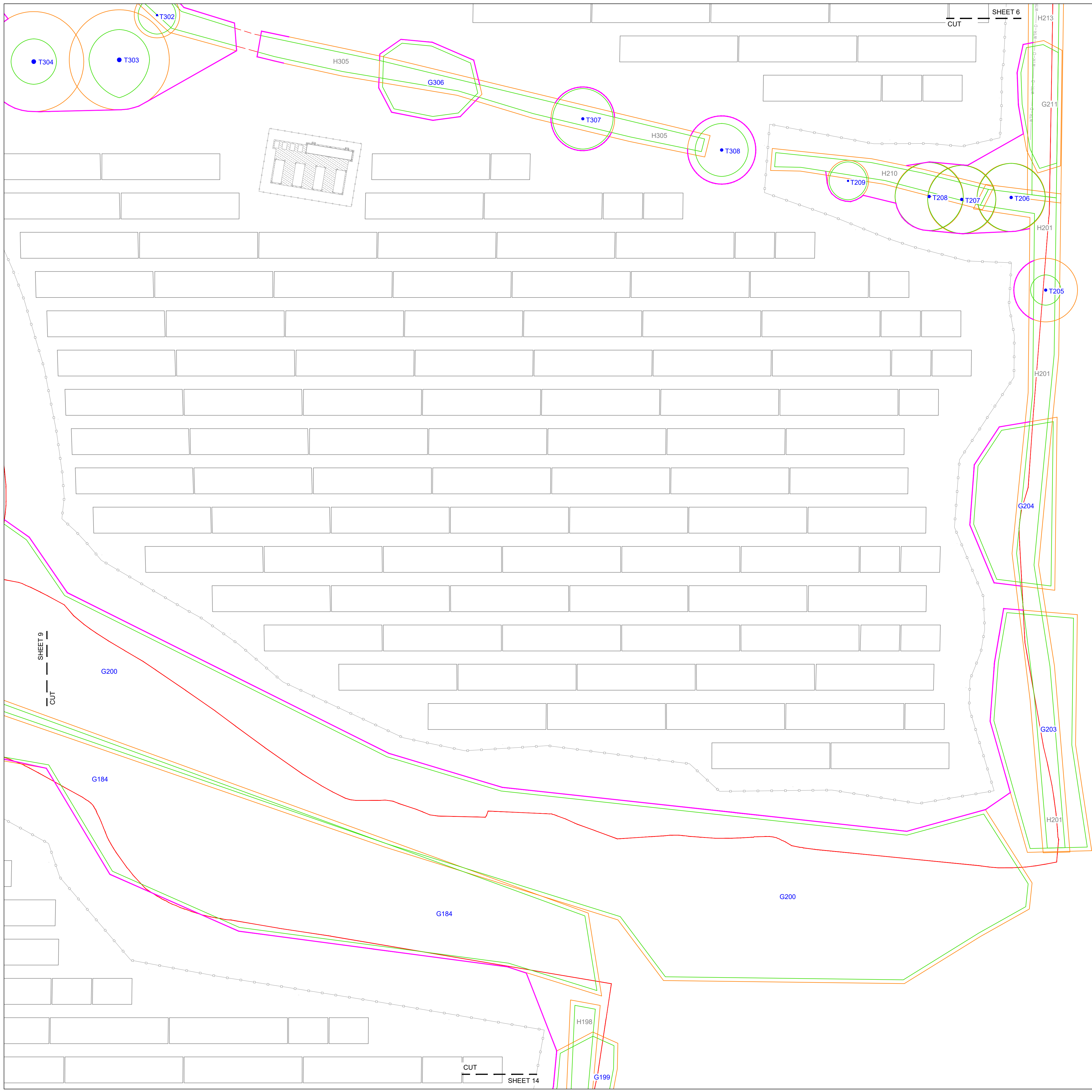
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Agent: AXIS

Date: September 2025

Scale: 1:500 @ A1





Symbol Guide


- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/ Remove

KEY

Indicative Red Line Boundary	Tree Protection Fencing
Proposed Tree Removal	


Tree Surveys & Consultancy Services

Project Name:
Butterfly Solar Park - Central

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 10

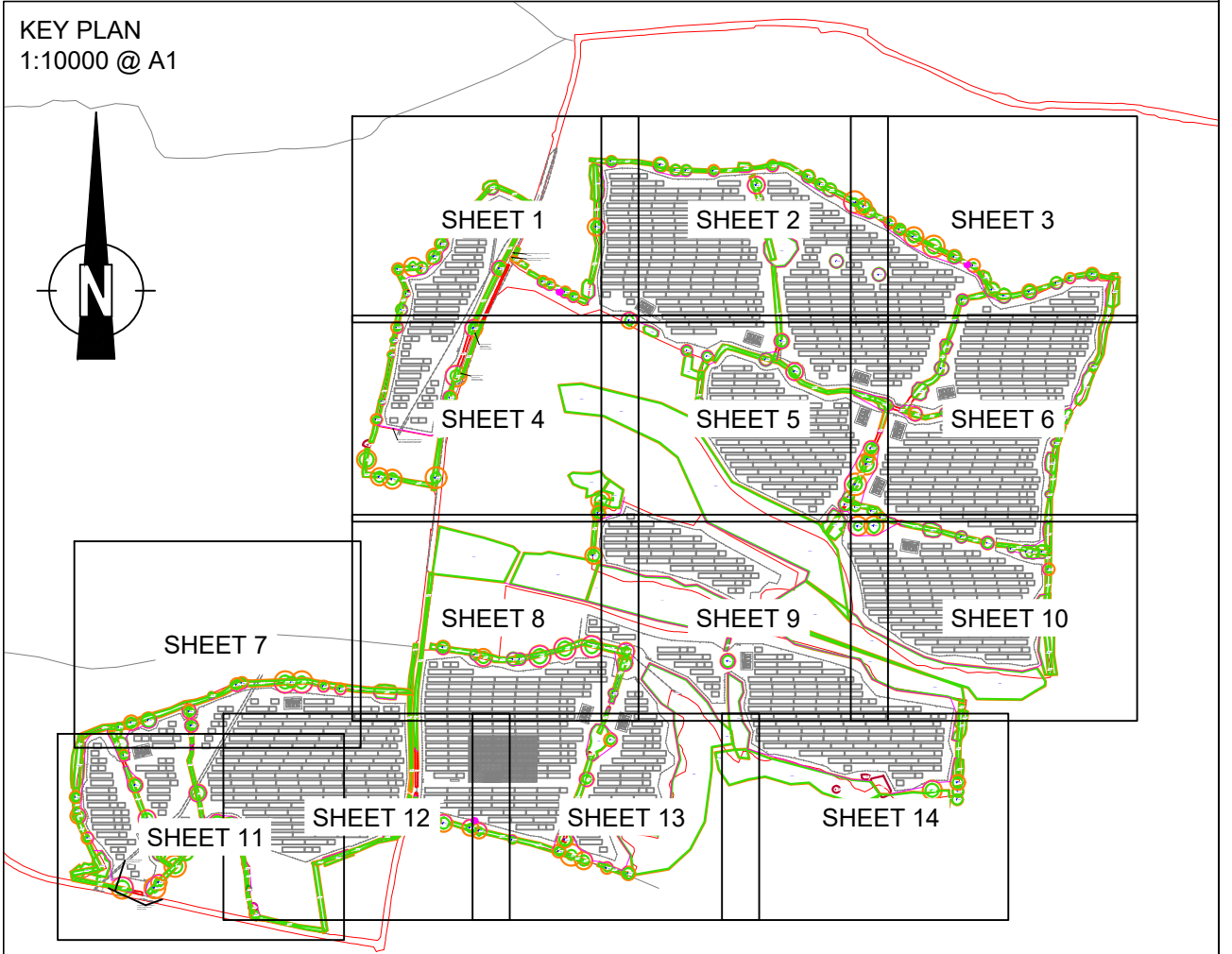
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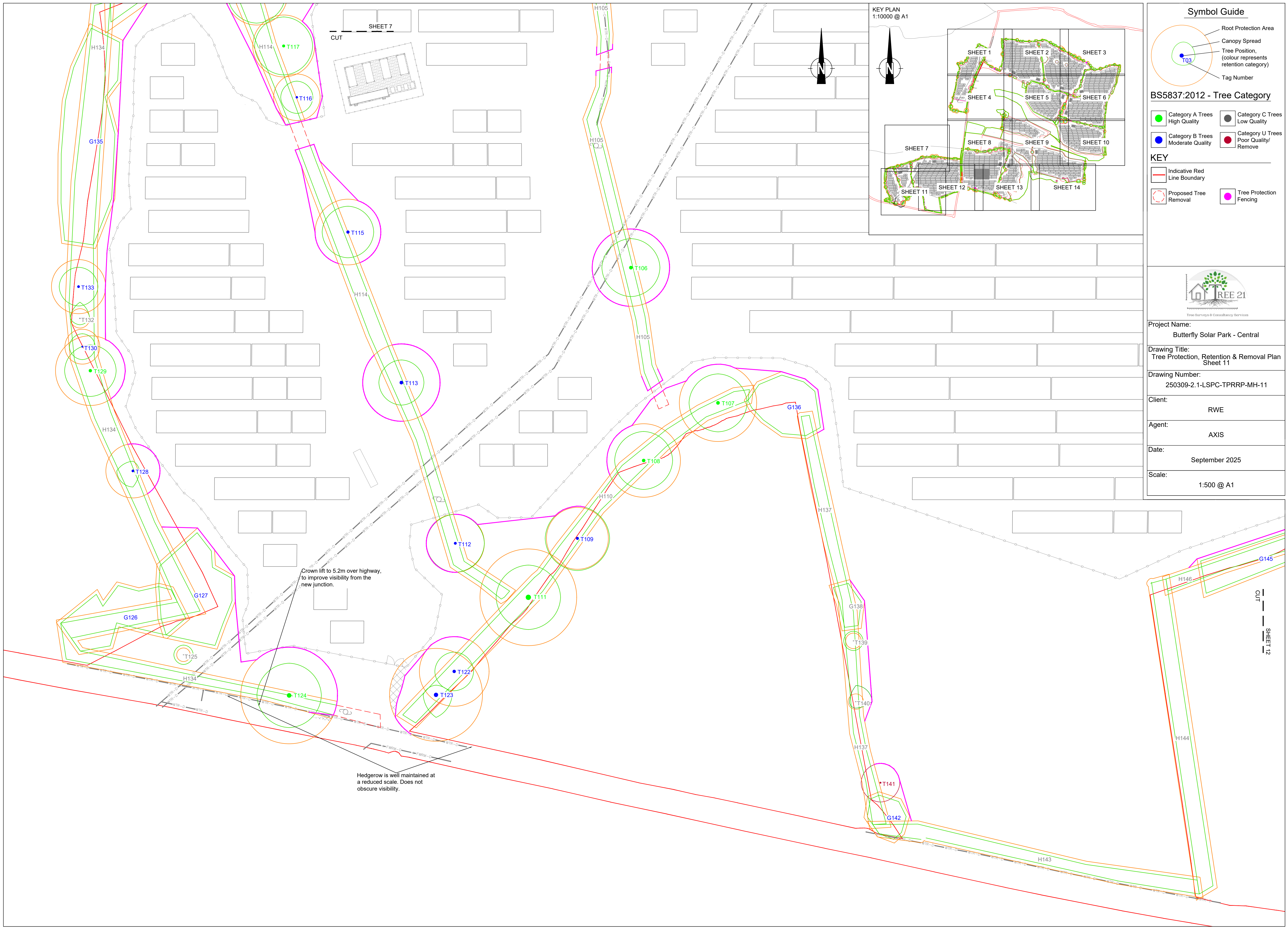
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AXIS

Date:
September 2025

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Symbol Guide

- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/ Remove

KEY

Indicative Red Line Boundary	Tree Protection Fencing
Proposed Tree Removal	

Project Name:
Butterfly Solar Park - Central

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 11

Drawing Number:
250309-2.1-LSPC-TPRRP-MH-11

Client:
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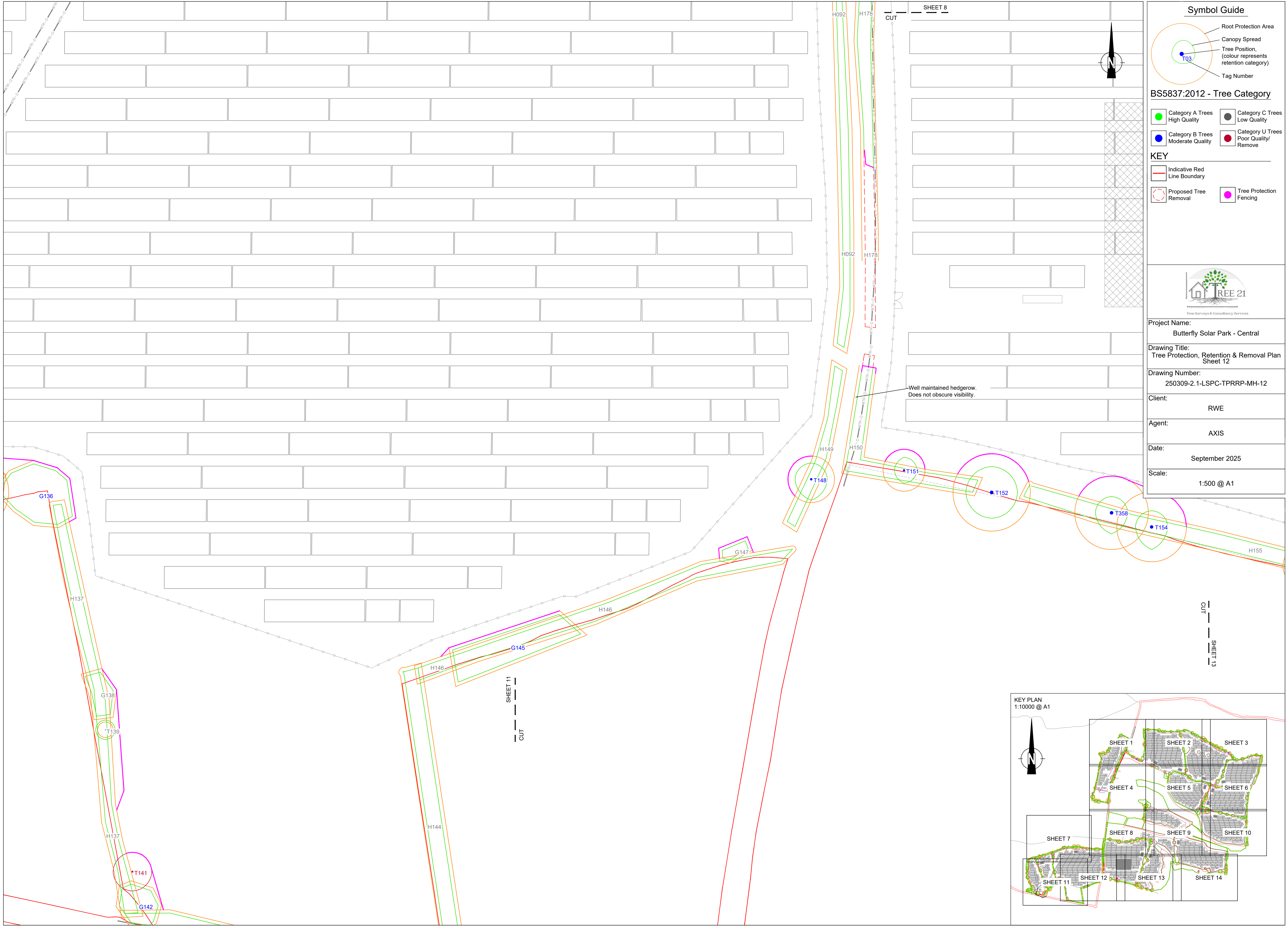
Agent:
AXIS

Date:
September 2025

Scale:
1:500 @ A1

Crown lift to 5.2m over highway,
to improve visibility from the
new junction.

Hedgerow is well maintained at
a reduced scale. Does not
obscure visibility.



Symbol Guide


- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

● Category A Trees High Quality	● Category C Trees Low Quality
● Category B Trees Moderate Quality	● Category U Trees Poor Quality/ Remove

KEY

 Indicative Red Line Boundary	 Tree Protection Fencing
 Proposed Tree Removal	



Project Name:
Butterfly Solar Park - Central

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 12

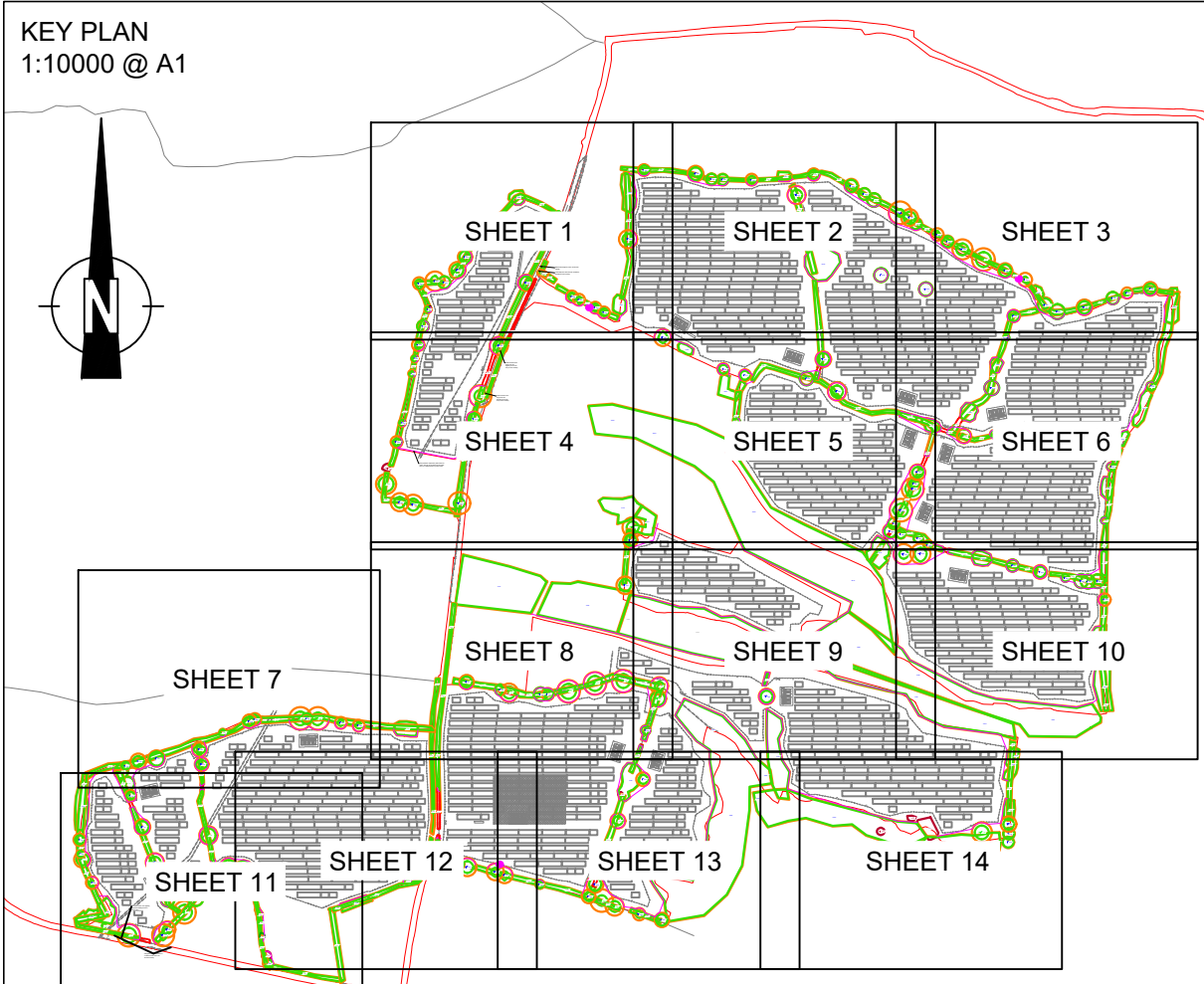
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RWE

Agent:
AXIS

Date:
September 2025

Scale:
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Symbol Guide

Root Protection Area

Canopy Spread

Tree Position, (colour represents retention category)

Tag Number

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/ Remove

KEY

Indicative Red Line Boundary	Tree Protection Fencing
Proposed Tree Removal	

Tree Surveys & Consultancy Services

Project Name:
Butterfly Solar Park - Central

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 13

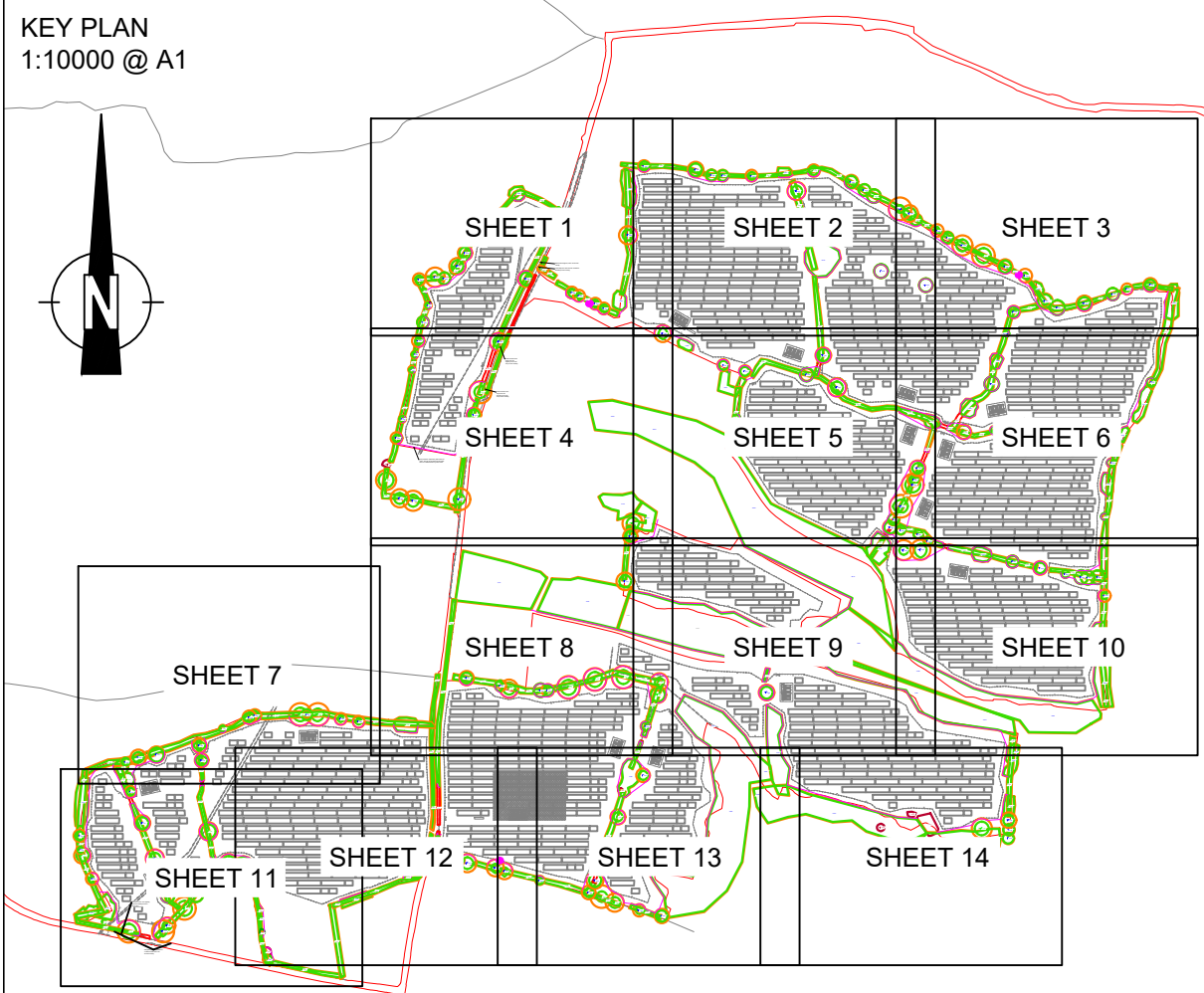
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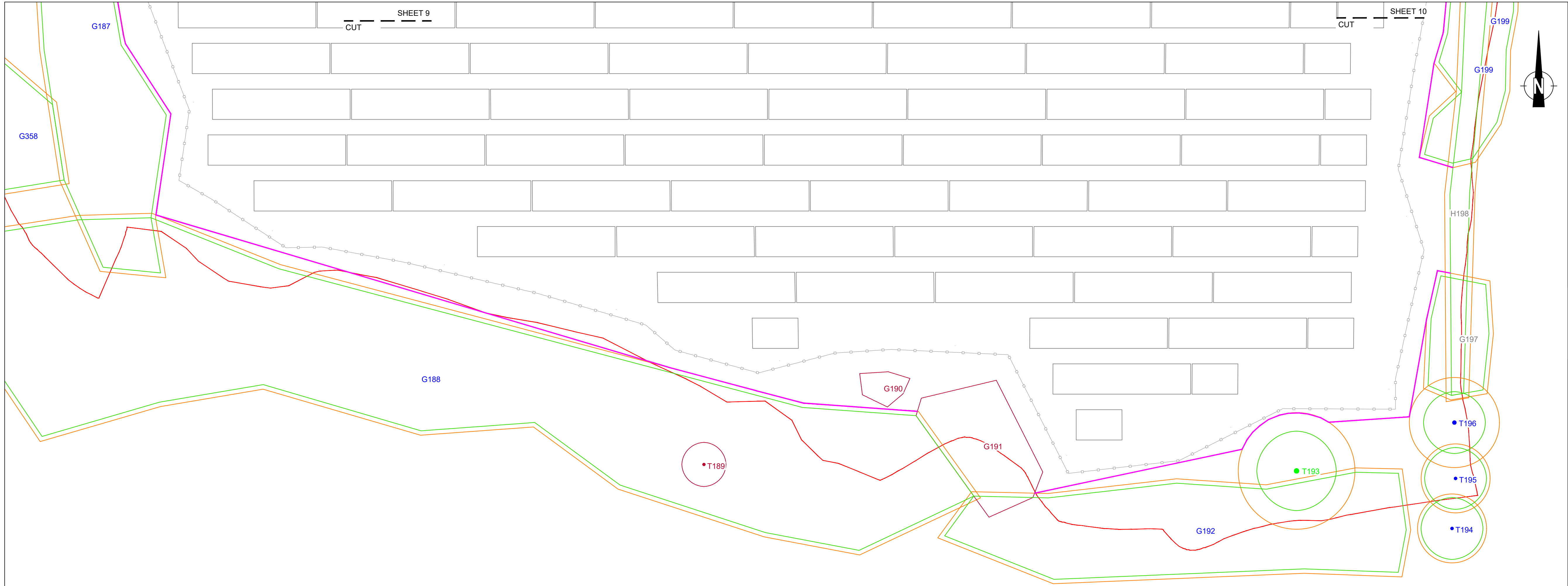
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AXIS

Date:
September 2025

Scale:
1:500 @ A1





Symbol Guide



- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number



- Category A Trees High Quality



- Category B Trees Moderate Quality



- Category C Trees Low Quality



- Category U Trees Poor Quality/Remove



- Indicative Red Line Boundary



- Proposed Tree Removal



- Tree Protection Fencing

BS5837:2012 - Tree Category



Tree Surveys & Consultancy Services

Project Name:
Butterfly Solar Park - Central

Drawing Title:
Tree Protection, Retention & Removal Plan Sheet 14

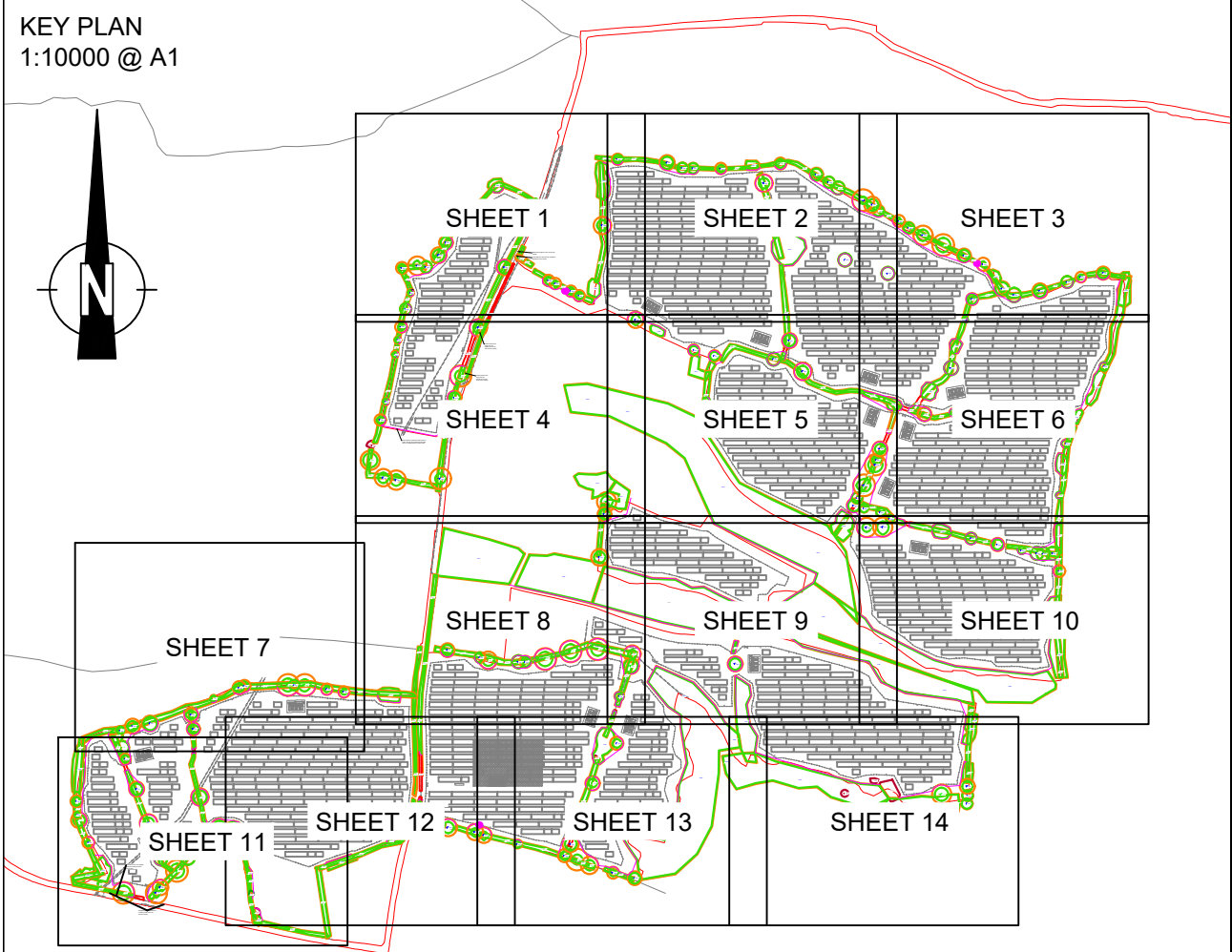
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Client:
RWE

Agent:
AXIS

Date:
September 2025

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Appendix C

Tree Schedule & Tree Protection Retention and Removal Plan (West)

Tree Categories

Tree Data

Table 1 Cascade Chart taken from BS5837:2012 Trees in Relation to Design, Demolition & Construction – Recommendations.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G001	Common ash (<i>Fraxinus excelsior</i>) Pedunculate oak (<i>Quercus robur</i>) Hazel (<i>Corylus avellana</i>) Common hawthorn (<i>Crataegus monogyna</i>) Sycamore (<i>Acer pseudoplatanus</i>) Holly (<i>Ilex sp.</i>) Goat willow (<i>Salix caprea</i>)	Height (m): 6.5 Stem Diam(mm): 300 Spread (m): 3.5N, 3.5E, 3.5S, 3.5W Crown Clearance (m): 1.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Field boundary group, track to the north. Outgrown hedgerow character. Die back in Ash.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G011	Common ash (<i>Fraxinus excelsior</i>) Elm (<i>Ulmus sp.</i>) Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 400 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 2 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition except the dead Elm to the west.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G025	Crack willow (<i>Salix fragilis</i>) Blackthorn (<i>Prunus spinosa</i>) Hazel (<i>Corylus avellana</i>) Pedunculate oak (<i>Quercus robur</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 10 Stem Diam(mm): 400 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Occasional larger tree to the east of the group, along boundary. RPA of group covers these trees in addition to the main group.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G026	Crack willow (<i>Salix fragilis</i>) Common alder (<i>Alnus glutinosa</i>) Aspen (<i>Populus tremula</i>)	Height (m): 15 Stem Diam(mm): 400 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 20+ Years	Fair overall Physiological and Structural condition. Wet area, riparian species in group. Dry at time of survey.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
G029	Silver birch (<i>Betula pendula</i>) Hazel (<i>Corylus avellana</i>) Common hawthorn (<i>Crataegus monogyna</i>) Wild cherry (<i>Prunus avium</i>) Blackthorn (<i>Prunus spinosa</i>) Pedunculate oak (<i>Quercus robur</i>) Goat willow (<i>Salix caprea</i>)	Height (m): 5 Stem Diam(mm): 250 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Unmanaged hedgerow group. Good overall Physiological and Structural condition.	B2	Pre construction: Remove section through G029 to facilitate access track. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
G076	Sycamore x6 (<i>Acer pseudoplatanus</i>) Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 7 stems, avg.(mm): 450 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 2 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Group of trees along fenceline in good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
H002	Common hawthorn x30 (<i>Crataegus monogyna</i>)	Height (m): 5 30 stems, avg.(mm): 200 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 0.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Neglected/mature hedgerow.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H010	Common hawthorn (<i>Crataegus monogyna</i>) Elm (<i>Ulmus sp.</i>)	Height (m): 4 Stem Diam(mm): 250 Spread (m): 2.5N, 2.5E, 2.5S, 2.5W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Fragmented in places more so the west. Dead Elm x 1 to East end. Character is a neglected field hedgerow.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H013	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 2 Stem Diam(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed section of hedgerow.	C2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H016	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 4 Stem Diam(mm): 200 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Larger, neglected hedgerow section.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H017	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 2 Stem Diam(mm): 100 Spread (m): 0.5N, 0.5E, 0.5S, 0.5W Crown Clearance (m): 0 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Managed, younger section of hedgerow.	C2	Pre construction: No action required. During construction: No action required. Post construction: No action required.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H020	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 2 Stem Diam(mm): 100 Spread (m): 0.5N, 0.5E, 0.5S, 0.5W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 20+ Years	Managed section of early mature hedgerow.	C2	Pre construction: Remove section of H020 to facilitate access track (see plans). During construction: Protect with protective barriers - as shown on plans. Post construction: No action required.
H032	Common hawthorn x5 (<i>Crataegus monogyna</i>)	Height (m): 2.5 5 stems, avg.(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0.5 Life Stage: Mature Rem. Contrib.: 20+ Years	Fragmented section of hedgerow.	C2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H040	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 4.5 1 stems Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Unmanaged hedgerow section.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H041	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 4.5 1 stems Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Unmanaged hedgerow section.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
H043	Hazel (<i>Corylus avellana</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 3.5 1 stems Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Unmanaged hedgerow. Good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H046	Common hawthorn (<i>Crataegus monogyna</i>) Hazel (<i>Corylus avellana</i>)	Height (m): 4 Stem Diam(mm): 250 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 0 Life Stage: Mature Rem. Contrib.: 40+ Years	Unmanaged hedgerow.	B2	Pre construction: Remove section through H046 to facilitate access track. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H049	Common hawthorn (<i>Crataegus monogyna</i>) Hazel (<i>Corylus avellana</i>)	Height (m): 4 Stem Diam(mm): 150 Spread (m): 3N, 3E, 2S, 3W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 20+ Years	Neglected hedgerow section, between track and field.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H051	Hazel (<i>Corylus avellana</i>) Hawthorn (<i>Crataegus sp.</i>)	Height (m): 4.5 Stem Diam(mm): 150 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 20+ Years	Fragmented neglected field hedgerow section.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H052	Hazel (<i>Corylus avellana</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 5 Stem Diam(mm): 200 Spread (m): 2.5N, 2.5E, 2.5S, 2.5W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Neglected hedgerow.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H054	Pedunculate oak (<i>Quercus robur</i>) Common hawthorn (<i>Crataegus monogyna</i>) Hazel (<i>Corylus avellana</i>) Goat willow (<i>Salix caprea</i>)	Height (m): 5 Stem Diam(mm): 200 Spread (m): 2.5N, 2.5E, 2.5S, 2.5W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Unmanaged and fragmented field hedgerow.	B2	Pre construction: Remove section through H054 to facilitate access perimeter fence. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
H055	Common hawthorn (<i>Crataegus monogyna</i>) Pedunculate oak (<i>Quercus robur</i>) Sycamore (<i>Acer pseudoplatanus</i>)	Height (m): 5 Stem Diam(mm): 200 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Neglected field hedgerow.	B2	Pre construction: Remove swathe through H055 to facilitate perimeter fence. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
H059	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 4.5 Stem Diam(mm): 200 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Neglected hedgerow.	B2	Pre construction: Remove swathe through H059 to facilitate perimeter fence. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H061	Common ash (<i>Fraxinus excelsior</i>) Common hawthorn (<i>Crataegus monogyna</i>) Hazel (<i>Corylus avellana</i>)	Height (m): 4.5 Stem Diam(mm): 200 Spread (m): 2.5N, 2.5E, 2.5S, 2.5W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Hedgerow, separating highway and site. Continues north, off site.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H062	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 4.5 Stem Diam(mm): 200 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Neglected hedgerow.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H063	Common hawthorn (<i>Crataegus monogyna</i>) Hazel (<i>Corylus avellana</i>)	Height (m): 5 Stem Diam(mm): 300 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 20+ Years	Section of neglected hedgerow.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H067	Field maple (<i>Acer campestre</i>) Hazel (<i>Corylus avellana</i>) Hawthorn (<i>Crataegus sp.</i>)	Height (m): 5 Stem Diam(mm): 200 Spread (m): 2.5N, 2.5E, 2.5S, 2.5W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Neglected field hedgerow in good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H069	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 5 Stem Diam(mm): 300 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Neglected hedgerow comprising spaced out mature Hawthorn.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H073	Common hawthorn (<i>Crataegus monogyna</i>) Elm (<i>Ulmus sp.</i>)	Height (m): 5 2 stems, avg.(mm): 300 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Neglected hedgerow.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H075	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 4.5 1 stems Spread (m): 2.5N, 2.5E, 2.5S, 2.5W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Neglected field hedgerow.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H083	Hazel (<i>Corylus avellana</i>) Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 4.5 1 stems Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Neglected field hedgerow.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
H084	Common hawthorn (<i>Crataegus monogyna</i>) Common alder (<i>Alnus glutinosa</i>)	Height (m): 4.5 Stem Diam(mm): 300 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 20+ Years	Fragmented hedgerow, most specimens are in fair/poor condition. Hedgerow runs along edge of ditch.	C2	Pre construction: No action required. During construction: No action required. Post construction: No action required.
H091	Sycamore (<i>Acer pseudoplatanus</i>) Hazel (<i>Corylus avellana</i>) Common hawthorn (<i>Crataegus monogyna</i>) Pedunculate oak (<i>Quercus robur</i>) Common alder (<i>Alnus glutinosa</i>) Goat willow (<i>Salix caprea</i>)	Height (m): 5 1 stems Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Neglected hedgerow in good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H095	Mixed species (Mixed species)	Height (m): 2 Stem Diam(mm): 50 Spread (m): 0.5N, 0.5E, 0.5S, 0.5W Crown Clearance (m): 0 Rem. Contrib.: 10+ Years	Section of mixed managed native hedgerow Hawthorn and Elder noted.	C2	
H098	Mixed species (Mixed species)	Height (m): 2 Stem Diam(mm): 50 Spread (m): 0.5N, 0.5E, 0.5S, 0.5W Crown Clearance (m): 0 Rem. Contrib.: 10+ Years	Section of mixed managed native hedgerow Hawthorn and Elder noted.	C2	
H099	Mixed species (Mixed species)	Height (m): 2 Stem Diam(mm): 50 Spread (m): 0.5N, 0.5E, 0.5S, 0.5W Crown Clearance (m): 0 Rem. Contrib.: 10+ Years	Section of mixed managed native hedgerow Hawthorn and Elder noted.	C2	
H102	Mixed species (Mixed species)	Height (m): 2 Stem Diam(mm): 50 Spread (m): 0.5N, 0.5E, 0.5S, 0.5W Crown Clearance (m): 0 Rem. Contrib.: 10+ Years	Small section of mixed Hawthorn hedge.	C2	
H103	Mixed species (Mixed species)	Height (m): 2 Stem Diam(mm): 50 Spread (m): 0.5N, 0.5E, 0.5S, 0.5W Crown Clearance (m): 0 Rem. Contrib.: 10+ Years	Small section of mixed Hawthorn hedge.	C2	

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H104	Mixed species (Mixed species)	Height (m): 2 Stem Diam(mm): 50 Spread (m): 0.5N, 0.5E, 0.5S, 0.5W Crown Clearance (m): 0 Rem. Contrib.: 10+ Years	Small section of mixed Hawthorn hedge.	C2	
H105	Common holly x2 (Ilex aquifolium)	Height (m): 2 2 stems, avg.(mm): 100 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Rem. Contrib.: 10+ Years	Small section of neglected Holly hedge.	C2	
H106	Mixed species (Mixed species)	Height (m): 2 Stem Diam(mm): 50 Spread (m): 0.5N, 0.5E, 0.5S, 0.5W Crown Clearance (m): 0 Rem. Contrib.: 10+ Years	Small section of mixed Hawthorn hedge.	C2	
H110	Mixed species (Mixed species)	Height (m): 1.5 Stem Diam(mm): 50 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Rem. Contrib.: 20+ Years	Section of mixed managed native hedgerow. Mostly Hawthorn. Gappy in parts.	B2	
H111	Mixed species (Mixed species)	Height (m): 1.5 Stem Diam(mm): 50 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Rem. Contrib.: 20+ Years	Section of mixed managed native hedgerow. Mostly Hawthorn. Located to the west side of fence.	B2	

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
H112	Mixed species (Mixed species)	Height (m): 1.5 Stem Diam(mm): 50 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Rem. Contrib.: 20+ Years	Section of mixed managed native hedgerow. Mostly Hawthorn.	B2	Pre construction: Remove section of hedge to facilitate access and visibility splay, as shown on plans. During construction: No action required.
H113	Mixed species (Mixed species)	Height (m): 1.5 Stem Diam(mm): 50 Spread (m): 1N, 1E, 1S, 1W Crown Clearance (m): 0 Rem. Contrib.: 20+ Years	Section of mixed managed native hedgerow. Mostly Hawthorn.	B2	
T003	Pedunculate oak (Quercus robur)	Height (m): 9.5 Stem Diam(mm): 600 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. In hedgerow.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T004	Pedunculate oak (Quercus robur)	Height (m): 9.5 Stem Diam(mm): 700 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. In hedgerow. Major deadwood. High habitat value.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T005	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 15 Stem Diam(mm): 1100 Spread (m): 5N, 8E, 6S, 5W Crown Clearance (m): 0 Life Stage: Veteran Rem. Contrib.: 40+ Years	Open cavities throughout stem and crown, mature epicormic growth in crown. Deadwood <200mm. High habitat value, particularly bats. No Ash die back observed.	A1,3	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T006	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 1500 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Retrenching form. Minor deadwood throughout crown.	A1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T007	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 600 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 2 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T008	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 13 2 stems (mm): 500, 700 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 1.5 Life Stage: Mature Rem. Contrib.: 20+ Years	Good overall Physiological and minor deadwood. Ivy clad on larger stem. No Ash die back observed.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T009	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 1000 Spread (m): 6N, 7E, 7S, 8W Crown Clearance (m): 2 Life Stage: Veteran Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Large hung up storm damaged branch. Some major deadwood. High habitat value. Pollard regrown.	A1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T012	Oak (<i>Quercus sp.</i>)	Height (m): 13 Stem Diam(mm): 650 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 1.5 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T014	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 1000 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 1.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T015	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 900 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T018	Common alder (<i>Alnus glutinosa</i>)	Height (m): 4 Stem Diam(mm): 250 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 1 Life Stage: Semi Mature Rem. Contrib.: 20+ Years	Fair overall Physiological and Structural condition.	C1	Pre construction: No action required. During construction: No action required. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T019	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 950 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. In fenceline.	A1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T021	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 1200 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Some decayed and dead branches, no structural concern.	A1,2	Pre construction: No action required. During construction: Tree protection box to protect ... Post construction: No action required.
T022	Field maple (<i>Acer campestre</i>)	Height (m): 10 10 stems, avg.(mm): 250 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 1.5 Life Stage: Mature Rem. Contrib.: 20+ Years	Multi stemmed tree in fence line. One major hung up branch from previous failure. Would benefit from coppicing.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T023	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 900 Spread (m): 1N, 5E, 7S, 7.5W Crown Clearance (m): 2.5 Life Stage: Mature Rem. Contrib.: 20+ Years	A major section of the crown on the north side has previously failed. The stem has a major cavity from 0.5m upward, with extensive decay. Ivy cover on tree. Leaf size, shape and distribution suggest there is sufficient remaining sapwood intact.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T024	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 750 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Ivy cover.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T027	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 20 Stem Diam(mm): 950 Spread (m): 7.5N, 6E, 6S, 6W Crown Clearance (m): 4.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Large, prominent tree with Ivy cover. Good overall Physiological and Structural condition.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T028	Silver birch (<i>Betula pendula</i>)	Height (m): 16 Stem Diam(mm): 350 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 30+ Years	Tallest tree through the group so individually plotted. Good overall Physiological and Structural condition. Side of track/fenceline.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T030	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 9 Stem Diam(mm): 1100 Spread (m): 6N, 5E, 5.5S, 5W Crown Clearance (m): 2 Lowest Branch (m): 3(NE) Life Stage: Veteran Rem. Contrib.: 20+ Years	Retrenching Oak. Cavity and compartmentalised decay in stem 0.5-2m. Deadwood throughout the crown. Burs on stem.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T031	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 750 Spread (m): 6.5N, 6.5E, 6.5S, 6.5W Crown Clearance (m): 1.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T033	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 2 stems (mm): 700, 750 Spread (m): 5N, 7E, 7S, 8W Crown Clearance (m): 1 Lowest Branch (m): 1(SW) Life Stage: Mature Rem. Contrib.: 40+ Years	Co-dominant stems with strong attachment. Deadwood through crown. Good overall Physiological and Structural condition.	A1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T034	Sycamore (<i>Acer pseudoplatanus</i>)	Height (m): 12 Stem Diam(mm): 700 Spread (m): 6N, 7E, 6S, 6.5W Crown Clearance (m): 2 Lowest Branch (m): 2(E) Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T035	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 16 Stem Diam(mm): 800 Spread (m): 6N, 6E, 7.5S, 6W Crown Clearance (m): 1 Life Stage: Over Mature Rem. Contrib.: 20+ Years	Fungal fruiting bodies around base/ground. Minor deadwood through crown. Ash die back not suspected.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T036	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 9 Stem Diam(mm): 600 Spread (m): 5N, 4E, 4S, 4W Crown Clearance (m): 1.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Fair overall Physiological and Structural condition. Deadwood throughout crown.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T037	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 650 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 1.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Compartmentalised cavity 0-2m.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T038	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 700 Spread (m): 5N, 5E, 7S, 7W Crown Clearance (m): 2 Lowest Branch (m): 2(S) Life Stage: Mature Rem. Contrib.: 20+ Years	Fair overall Physiological and Structural condition. Old decay at base with some hollowing. Livestock damage and compaction. Major deadwood. High habitat value.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

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Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T039	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 750 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 1.5 Life Stage: Mature Rem. Contrib.: 20+ Years	Fair overall Physiological and Structural condition. Old decay at base, 0-2m with some hollowing. Livestock damage and compaction. Minor deadwood.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T042	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 Stem Diam(mm): 700 Spread (m): 5N, 5E, 7S, 5W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	In fence/hedge line. Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T044	Silver birch (<i>Betula pendula</i>)	Height (m): 16 Stem Diam(mm): 350 Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 3 Life Stage: Mature Rem. Contrib.: 30+ Years	Good overall Physiological and Structural condition. Side of track/fenceline.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T045	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 9 Stem Diam(mm): 800 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Minor deadwood through crown.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T047	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 730 Spread (m): 6N, 5E, 5S, 4W Crown Clearance (m): 2.5 Life Stage: Mature Rem. Contrib.: 20+ Years	Extensive decay 0-4m, sufficient live wood remaining to maintain structural and physiological condition. Tree adjacent gateway.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T048	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 13 Stem Diam(mm): 600 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 20+ Years	In fenceline.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T050	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 13 Stem Diam(mm): 930 Spread (m): 6N, 6E, 6S, 6W Crown Clearance (m): 4 Lowest Branch (m): 3(S) Life Stage: Veteran Rem. Contrib.: 20+ Years	Extensive areas of decay throughout the. Inonotus fruiting bodies in upper crown. Tree is in hedge along edge of track.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T053	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 14 3 stems (mm): 790, 270, 280 Spread (m): 7N, 6E, 7S, 7W Crown Clearance (m): 1.5 Life Stage: Mature Rem. Contrib.: 10+ Years	Multi stemmed tree in hedgerow. Decay in upper crown.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T056	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 14 Stem Diam(mm): 600 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 20+ Years	In hedgerow. Good overall Physiological and Structural condition.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T057	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 600 Spread (m): 7N, 6E, 7S, 7W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 20+ Years	In hedgerow. Good overall Physiological and Structural condition.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T058	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 14 Stem Diam(mm): 750 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 20+ Years	In hedgerow. Good overall Physiological and Structural condition. Minor deadwood in crown.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T060	Field maple (<i>Acer campestre</i>)	Height (m): 8 3 stems (mm): 410, 470, 410 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Multi-stem, coppice origin in fenceline.	B1,2,3	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T064	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 5 Stem Diam(mm): 400 Spread (m): 5N, 3E, 3S, 3W Crown Clearance (m): 1 Life Stage: Mature Rem. Contrib.: 40+ Years	Mature tree in fence line.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T065	Hazel (<i>Corylus avellana</i>)	Height (m): 5 20 stems, avg.(mm): 10 Spread (m): 5N, 3E, 3S, 3W Crown Clearance (m): 1 Life Stage: Early Mature Rem. Contrib.: 10+ Years	Mature tree in fence line.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T066	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 950 Spread (m): 8N, 9E, 8S, 8W Crown Clearance (m): 1.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	A1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T068	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 9 Stem Diam(mm): 900 Spread (m): 6N, 6E, 8S, 6W Crown Clearance (m): 1.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Extensive decay 0-2m in stem on NE aspect. Sufficient live wood. Tree is in Fair overall Physiological and Structural condition.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T070	Field maple (<i>Acer campestre</i>)	Height (m): 5 Stem Diam(mm): 600 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 2 Life Stage: Veteran Rem. Contrib.: 20+ Years	Extensive decay with die back in Upper crown.	B3	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T071	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 10 Stem Diam(mm): 800 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 10+ Years	Poor overall Physiological and Structural condition with extensive decay at base and stem.	C2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T072	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 8 1 stems Spread (m): 4.5N, 4.5E, 4.5S, 4.5W Crown Clearance (m): 2 Life Stage: Dead	Dead tree adjacent fence.	U	Pre construction: No action required. During construction: No action required. Post construction: No action required.
T074	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 600 Spread (m): 5N, 5E, 5.5S, 5W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. Ivy cover.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T077	Sycamore (<i>Acer pseudoplatanus</i>)	Height (m): 11 2 stems (mm): 580, 430 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T078	Common alder (<i>Alnus glutinosa</i>)	Height (m): 9 3 stems (mm): 300, 300, 200 Spread (m): 1N, 1E, 1S, 1W Life Stage: Dead	Dead tree. Stems only remaining.	U	Pre construction: No action required. During construction: No action required. Post construction: No action required.
T079	Common alder (<i>Alnus glutinosa</i>)	Height (m): 9 3 stems (mm): 300, 300, 200 Spread (m): 1N, 1E, 1S, 1W Life Stage: Dead	Dead tree. Stems only remaining.	U	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T080	Common hawthorn (<i>Crataegus monogyna</i>)	Height (m): 5 Stem Diam(mm): 300 Spread (m): 4N, 4E, 4S, 4W Crown Clearance (m): 0.5 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T081	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 500 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T082	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 3 stems (mm): 470, 420, 370 Spread (m): 6N, 5E, 5S, 5W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 10+ Years	Fair overall Physiological and Structural condition.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T085	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 Stem Diam(mm): 520 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 2 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Good overall Physiological and Structural condition. In hedgerow.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T086	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 12 2 stems (mm): 450, 500 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 1.5 Life Stage: Mature Rem. Contrib.: 40+ Years	In fenceline. Good overall Physiological and Structural condition.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T087	Sycamore (<i>Acer pseudoplatanus</i>)	Height (m): 13 5 stems (mm): 400, 400, 350, 400, 450 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 20+ Years	In fenceline. Multi stem. Fair overall Physiological and Structural condition.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T088	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 850 Spread (m): 7N, 7E, 7S, 7W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	In fenceline. Good overall Physiological and Structural condition.	B1,2	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T089	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 13 3 stems (mm): 700, 600, 500 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	In fenceline. Coppice origin with mature stems. Good overall Physiological and Structural condition.	A1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T090	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 14 Stem Diam(mm): 900 Spread (m): 9N, 9E, 9S, 9W Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	In fenceline. Good overall Physiological and Structural condition.	A1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Post construction: No action required.
T092	Field maple (<i>Acer campestre</i>)	Height (m): 11 Stem Diam(mm): 400# Spread (m): 3N, 3E, 3S, 3W Crown Clearance (m): 4 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Adjacent field gateway/beind post. Good overall Physiological and Structural condition.	B1	
T093	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 540 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 4 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Located immediately adjacent east side of fence. Good overall Physiological and Structural condition.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Ground protection required to prevent soil compaction and root damage.

Butterfly Solar - West -BS5837:2012 Survey Data

Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T094	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 11 Stem Diam(mm): 1260 Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4.5 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Located immediately adjacent west side of fence. Good overall Physiological and Structural condition. Old, significant branch failures providing high habitat value.	A1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Ground protection required to prevent soil compaction and root damage.
T096	Common ash (<i>Fraxinus excelsior</i>)	Height (m): 10 Stem Diam(mm): 410 Spread (m): 4.5N, 5E, 5S, 5W Crown Clearance (m): 3.5 Life Stage: Early Mature Rem. Contrib.: <10 years	Located immediately adjacent west side of fence.	C1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans.
T097	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 15 Stem Diam(mm): 1300# Spread (m): 8N, 8E, 8S, 8W Crown Clearance (m): 4 Life Stage: Over Mature Rem. Contrib.: 40+ Years	Located immediately adjacent west side of fence. Good overall Physiological and Structural condition with valuable deadwood occasionally throughout the crown.	A1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Ground protection required to prevent soil compaction and root damage.
T100	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 7 Stem Diam(mm): 760 Spread (m): 7N, 4E, 4S, 4W Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Located immediately adjacent west side of fence. Fair overall Physiological and Structural condition having stunted growth with dense ivy cover . However, still provides habitat value and longevity.	B1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Ground protection required to prevent soil compaction and root damage.

Butterfly Solar - West -BS5837:2012 Survey Data

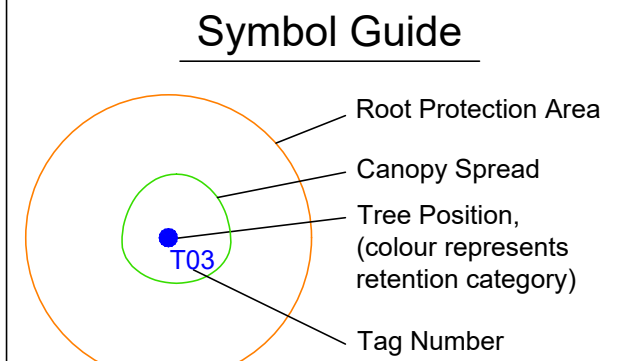
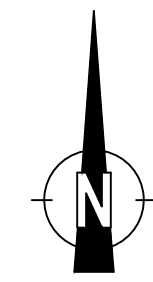
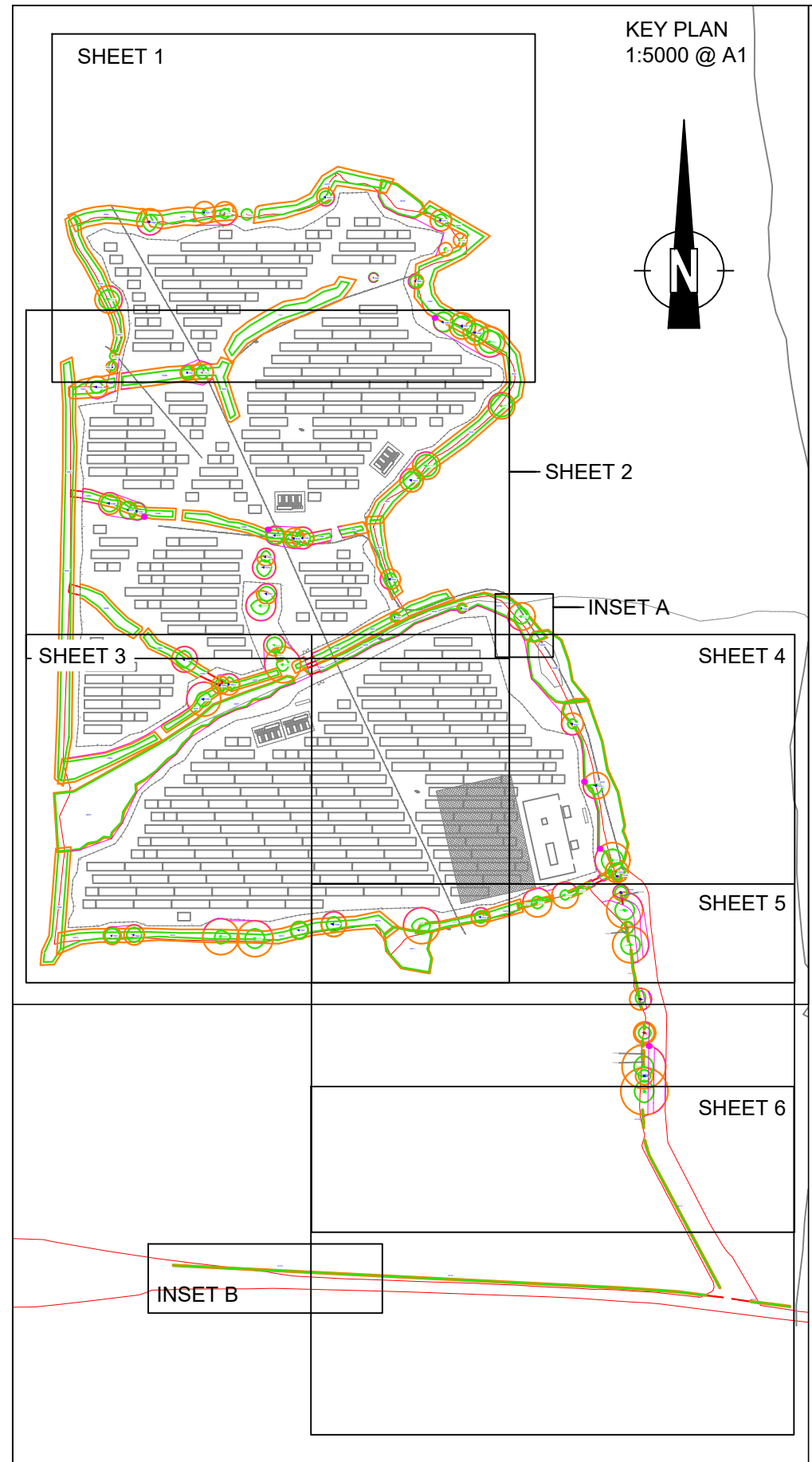
Ref.	Species	Measurements	General Observations	Retention Category	Recommendations
T101	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 720 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 4 Life Stage: Dead	Located immediately adjacent east side of fence. Dead.	U	Pre construction: No action required. During construction: No action required.
T107	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 1200# Spread (m): 9N, 8E, 8S, 8W Crown Clearance (m): 4 Life Stage: Veteran Rem. Contrib.: 40+ Years	Located immediately adjacent east side of fence. Fair overall Physiological and Structural condition, stag headed, with a valuable large section of deadwood to the south.	A1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Ground protection required to prevent soil compaction and root damage.
T108	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 10 Stem Diam(mm): 620 Spread (m): 5N, 5E, 5S, 5W Crown Clearance (m): 4 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Located immediately adjacent east side of fence. Fair overall Physiological and Structural condition.	B1	During construction: Protect trees with protective barriers - as shown on plans.

Butterfly Solar - West -BS5837:2012 Survey Data

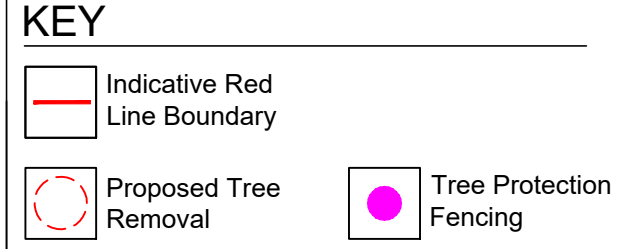
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T109	Pedunculate oak (<i>Quercus robur</i>)	Height (m): 16 Stem Diam(mm): 1300# Spread (m): 9N, 8E, 9S, 8W Crown Clearance (m): 4 Life Stage: Veteran Rem. Contrib.: 40+ Years	Located immediately adjacent east side of fence. Fair overall Physiological and Structural condition, with major deadwood and a dead/dysfunctional secondary stem with valuable large section of deadwood remaining. Decay likely to be compartmentalised considering the remaining physiological condition of overall tree. High habitat value.	A1	Pre construction: No action required. During construction: Protect trees with protective barriers - as shown on plans. Ground protection required to prevent soil compaction and root damage.

Table 1 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	<ul style="list-style-type: none">Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)Trees that are dead or are showing signs of significant, immediate, and irreversible overall declineTrees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality <p><i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i></p>			See Table 2
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
Trees to be considered for retention				
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	See Table 2
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	See Table 2
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	See Table 2



BS5837:2012 - Tree Category



Project Name:
Butterfly Solar Park - West

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 1

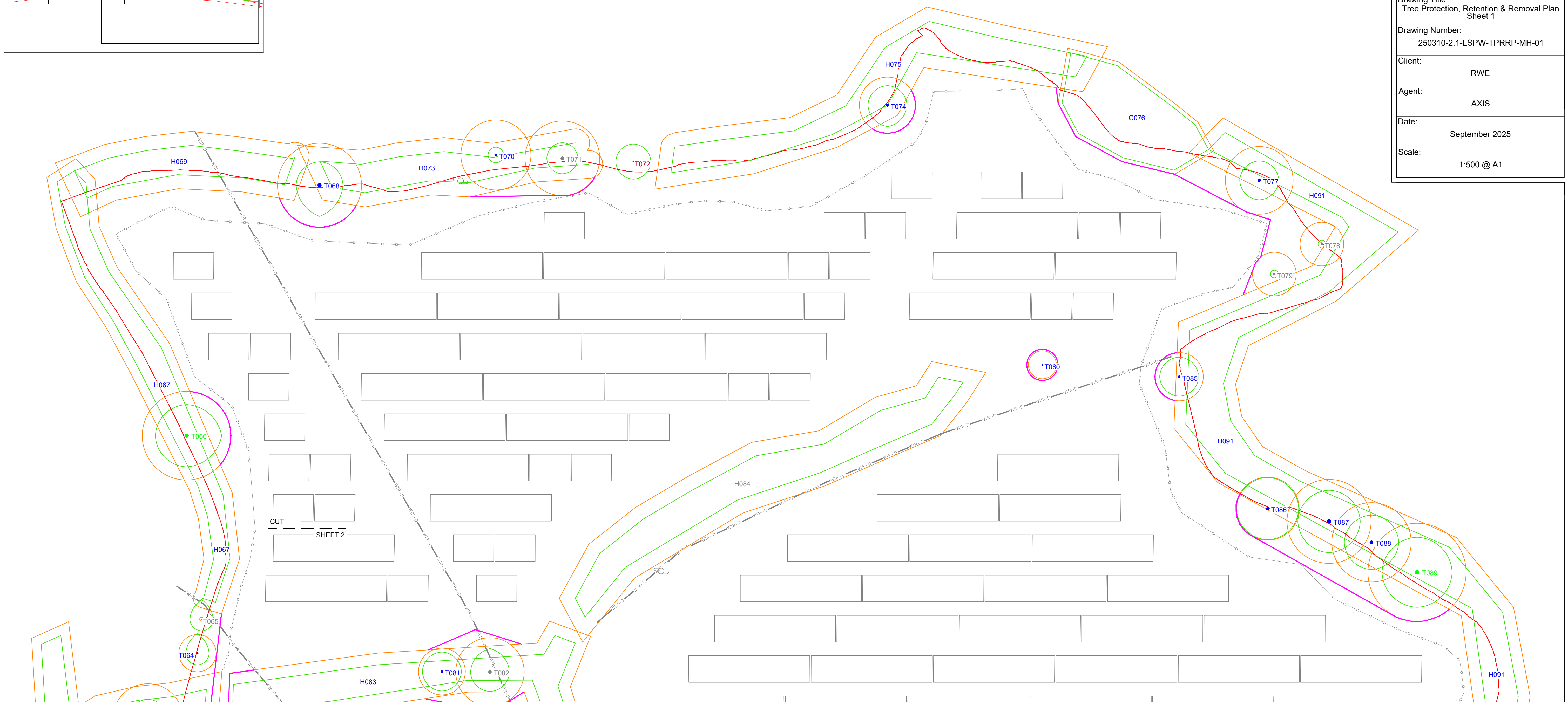
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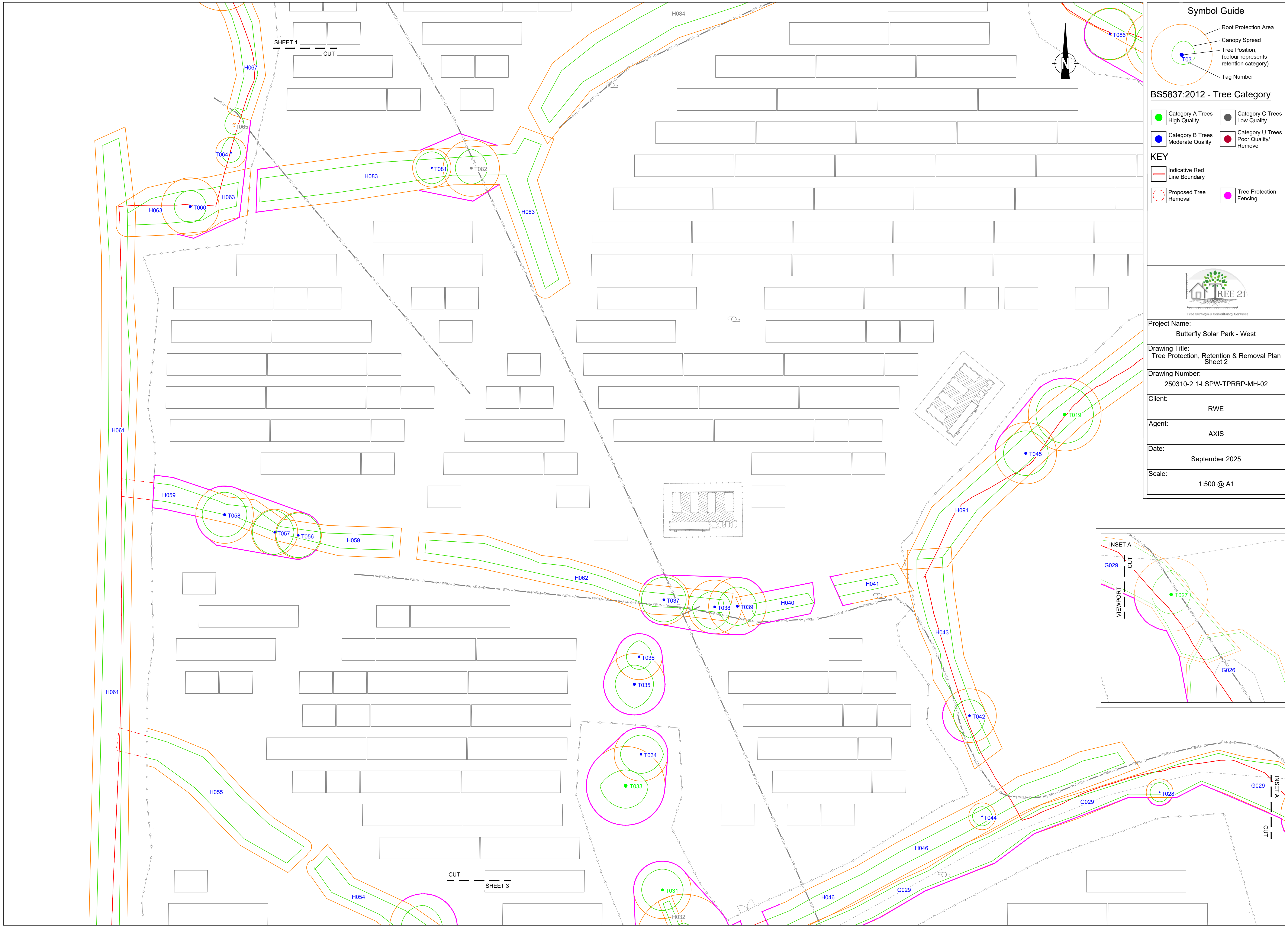
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RWE

Agent:
AXIS

Date:
September 2025

Scale:
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Symbol Guide

- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/ Remove

KEY

Indicative Red Line Boundary	Tree Protection Fencing
Proposed Tree Removal	

Project Name:
Butterfly Solar Park - West

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 2

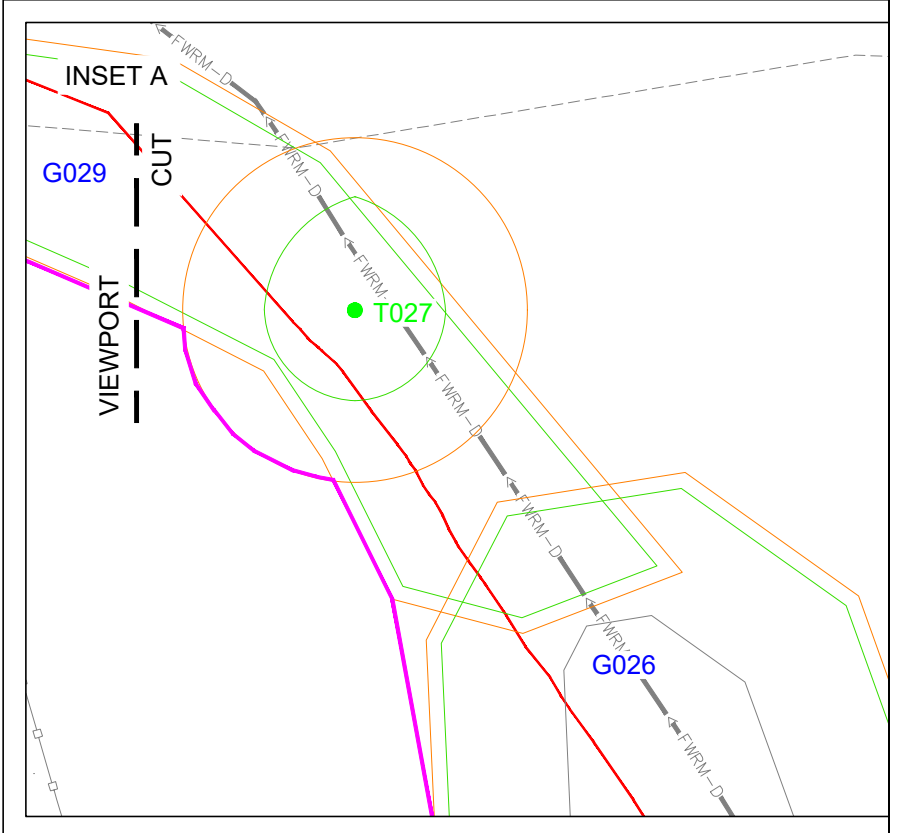
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RWE

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AXIS

Date:
September 2025

Scale:
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Symbol Guide

- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/ Remove

KEY

Indicative Red Line Boundary	Tree Protection Fencing
Proposed Tree Removal	

Project Name:
Butterfly Solar Park - West

Drawing Title:
Tree Protection, Retention & Removal Plan
Sheet 3

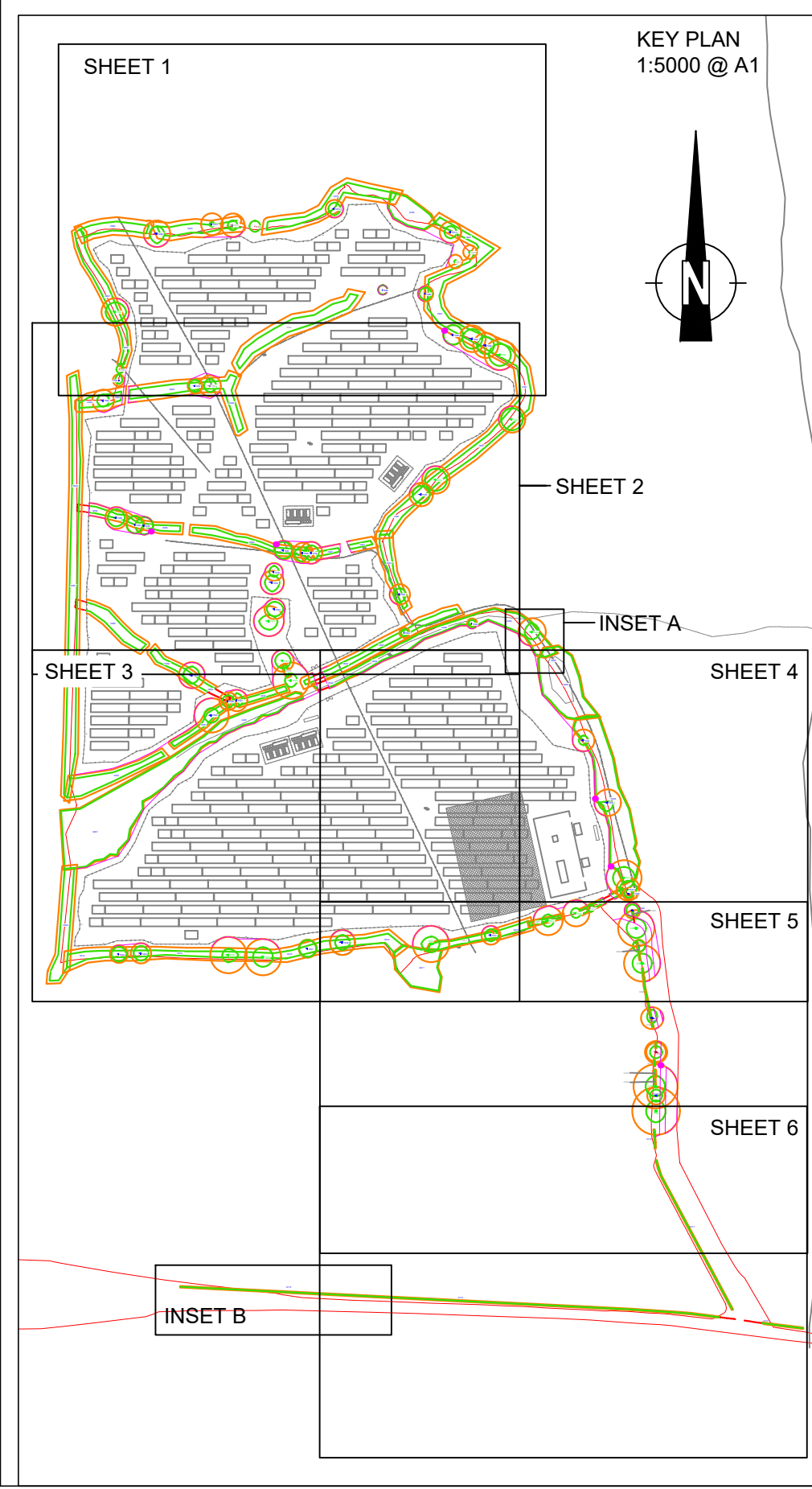
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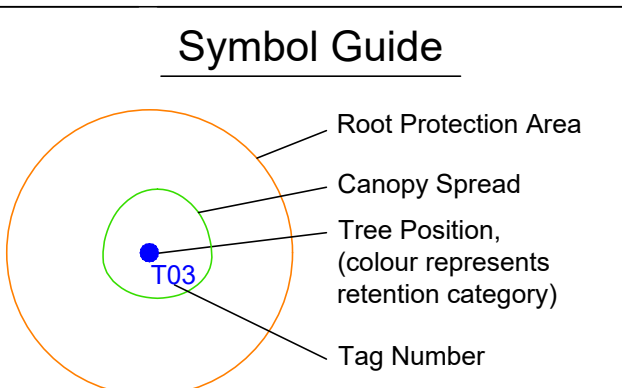
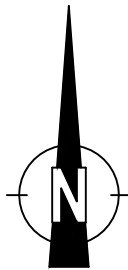
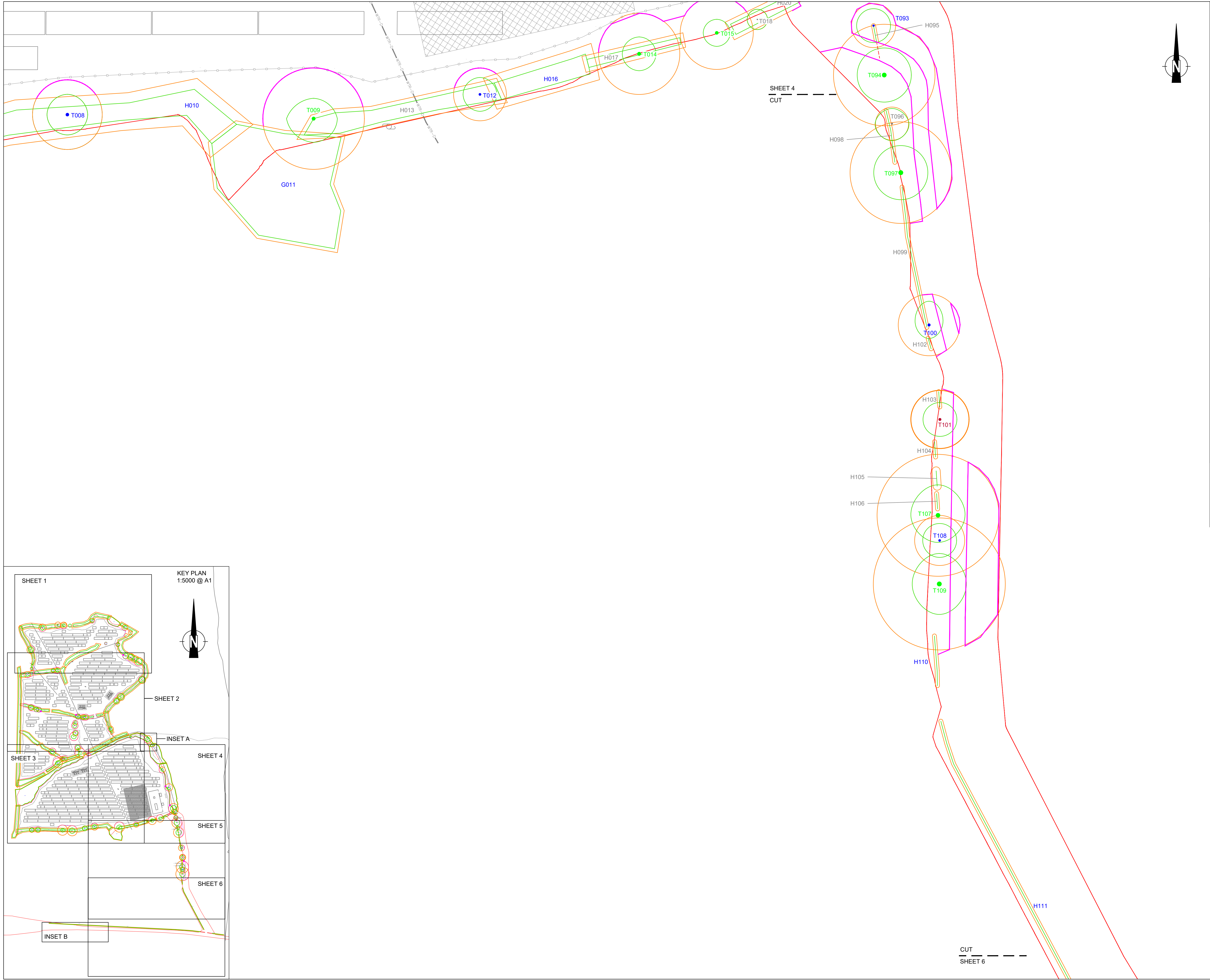
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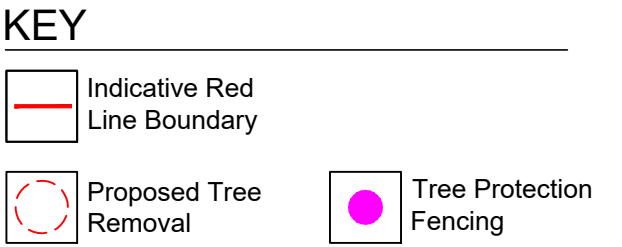
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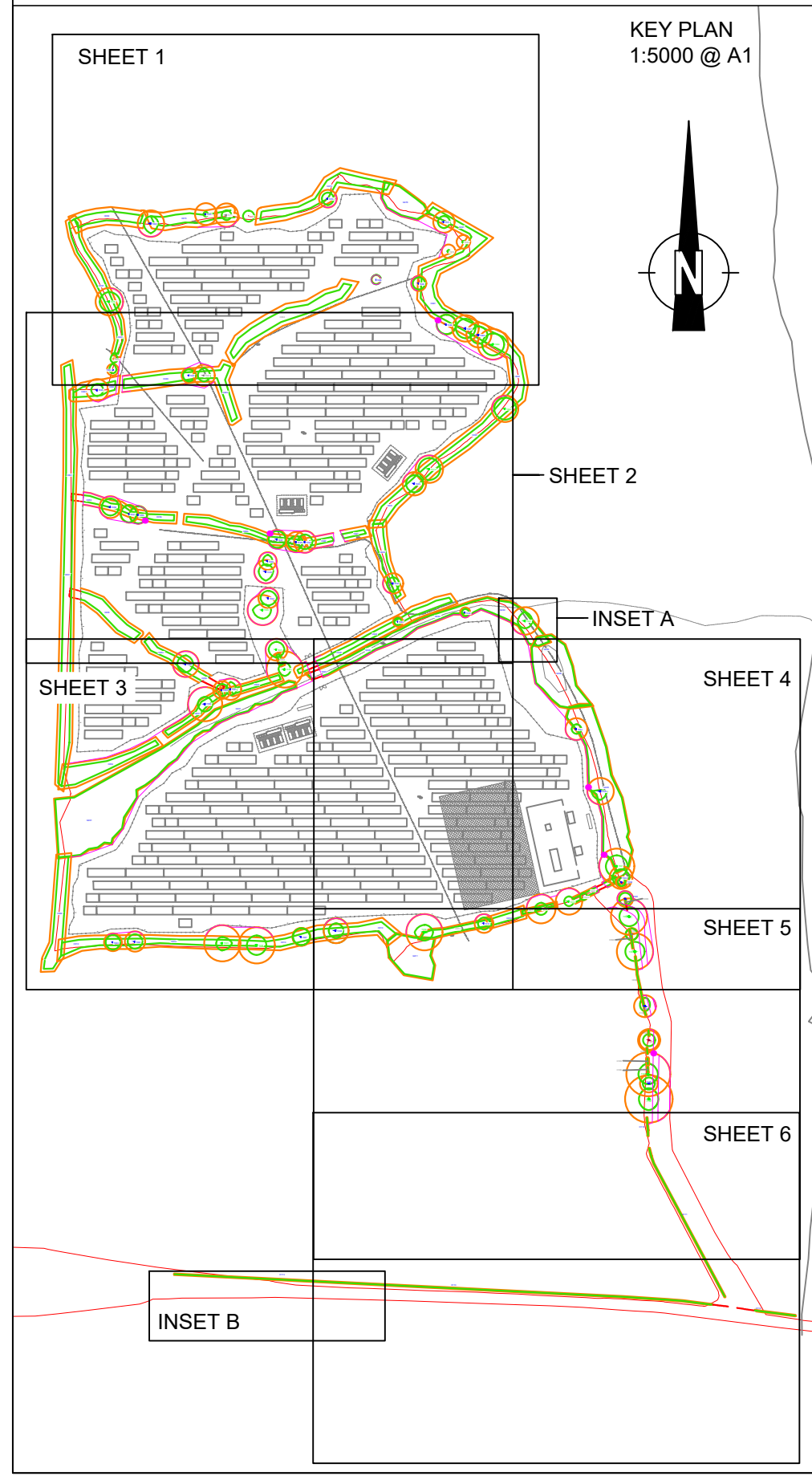


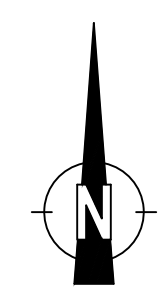
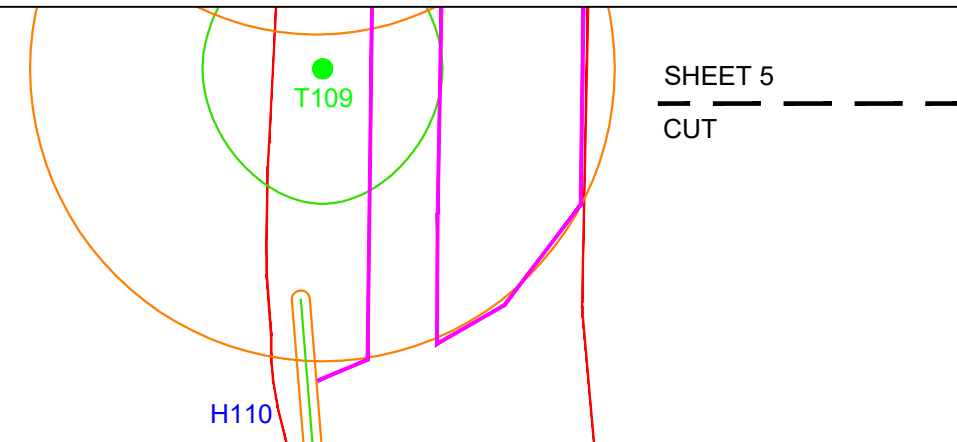
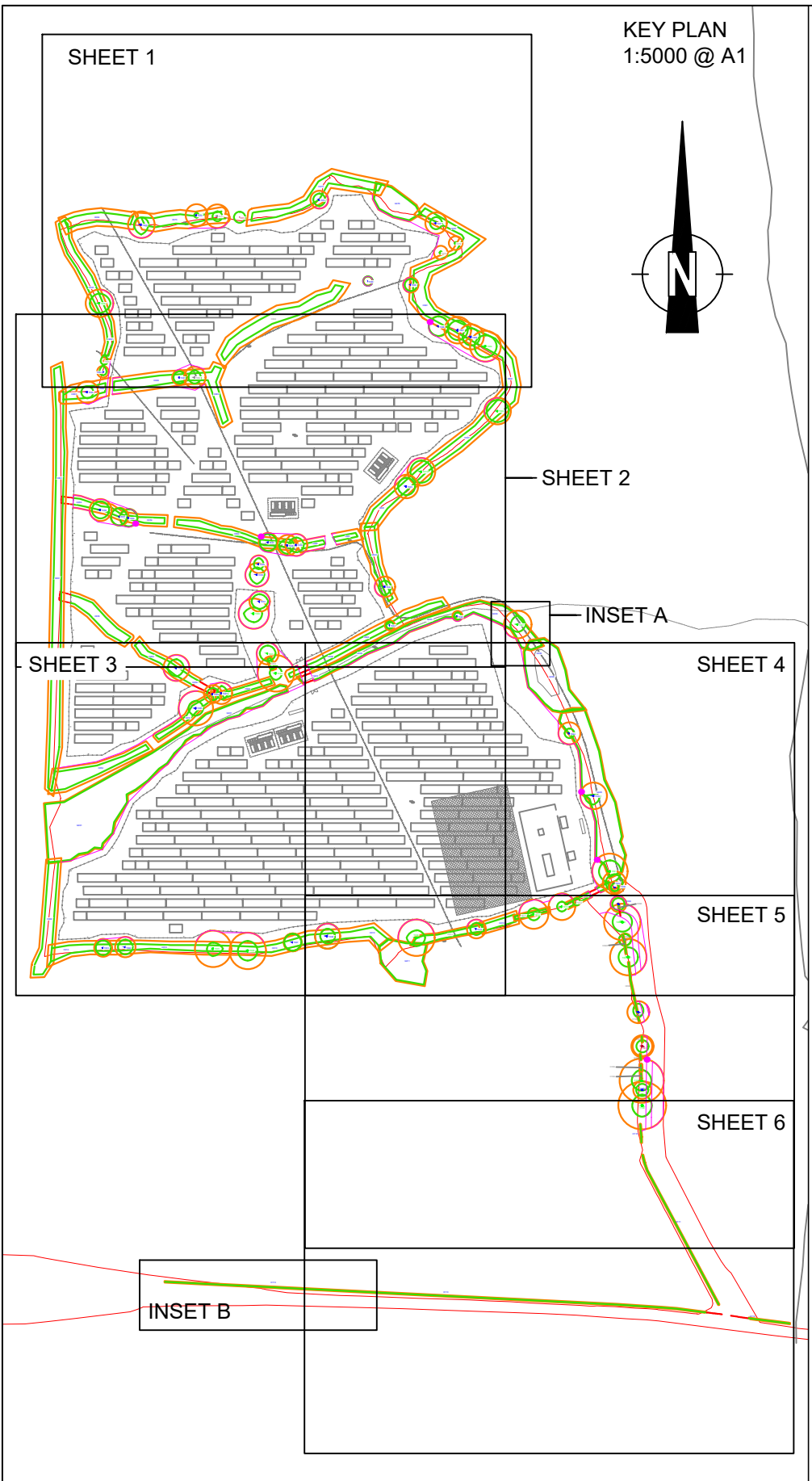


BS5837:2012 - Tree Category



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Drawing Title:	Tree Protection, Retention & Removal Plan Sheet 5
Drawing Number:	250805-1.1-LSPW-TPRRP-MH-05
Client:	RWE
Agent:	AXIS
Date:	September 2025
Scale:	1:500 @ A1





Symbol Guide

- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

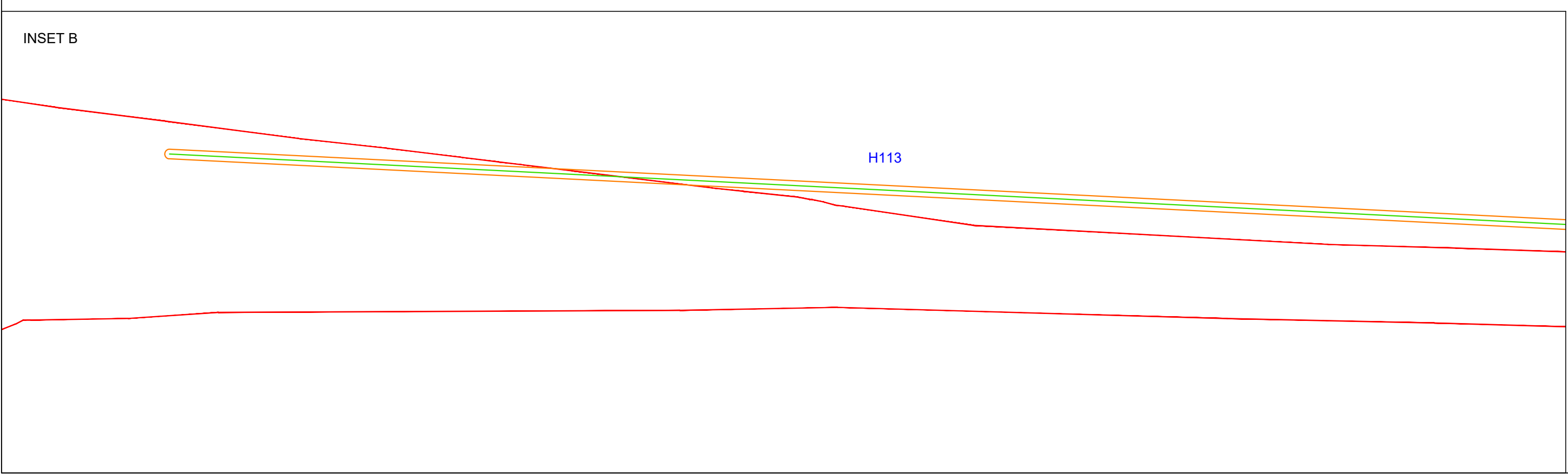
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Category B Trees Moderate Quality	Category U Trees Poor Quality/ Remove

KEY

Indicative Red Line Boundary	Tree Protection Fencing
Proposed Tree Removal	



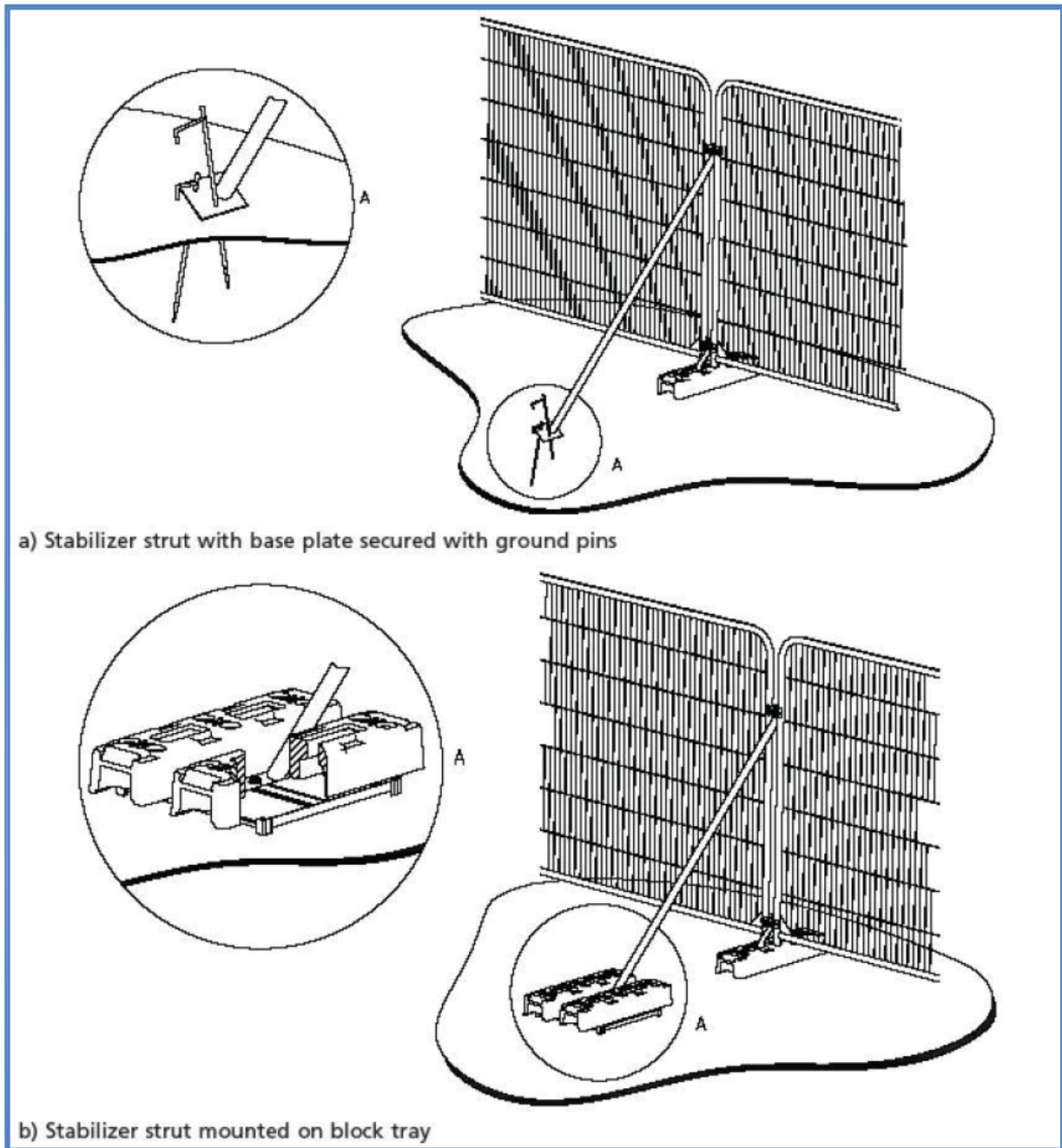
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Client:	RWE
Agent:	AXIS
Date:	September 2025
Scale:	1:500 @ A1



Appendix D

Tree Protection Measures

Illustrative information on proposed tree protection measures to be installed as set out on the Tree Protection Plan



BS5837: 2012 - Figure 3 – Examples of Above Ground Stabilisation Systems



Example Tree Protection Fencing Sign

End of report



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