

**IAIN TAVENDALE F.Arbor.A.**

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ARBORICULTURAL CONSULTANT

## ***Arboricultural Impact Assessment***

***Site;***

***Land at Engine lane, Grimethorpe,  
Barnsley, S72 7BN.***

“Construction of a temporary Solar Farm providing 49.9 MW (AC) output, to include the installation of ground-mounted solar panels together with associated works, equipment and necessary infrastructure.”

***Client:***

***Enviromena Project Management Ltd***

## **Tree Survey and Methodology Considerations.**

A tree survey of the site was prepared on the 20<sup>th</sup> November 2022 in consideration of BS5837:2012 Trees in Relation to Design, Demolition and Construction – Recommendations and in the knowledge of the proposals for the necessary works.

A topographical survey had also been prepared upon which all relevant data has been added for identification purposes.

The survey was undertaken from ground level. No excavations were carried out or soil or root samples taken. Should a more detailed assessment / inspection of a particular item be deemed necessary it has been noted in the survey schedule. No aerial inspections or invasive probings or drillings have been undertaken.

Retention values were evaluated following guidance within Table 1 of BS5837 – ‘Cascade Chart for Tree Quality Assessment.’ This specifies four main categories.

- 1. CAT A – Trees of high quality with an estimated remaining life expectancy of at least 40 years whereby they could make a substantial long term contribution to the area.*
- 2. CAT B – Trees of moderate quality with an estimated remaining life expectancy of at least 20 years that are still of sufficient quality to make a substantial contribution to the area.*
- 3. CAT C – Trees of low quality with an estimated remaining life expectancy of at least 10 years or young trees with a stem diameter below 150mm. All items within this category could be retained but would not be expected to impose a significant constraint on development.*
- 4. CAT U – Trees in such a condition that they cannot be realistically retained as living trees in the context of the current land use for longer than 10 years. They may however have existing or potential conservation value which it might be desirable to preserve.*

It is understood that the Client proposes to retain all trees and hedges across the site and the solar panel arrays and associated cabling / infrastructure have been specifically designed to avoid conflicts. All arrays will also ensure a reasonable stand off from retained features in excess of 3m both for access and necessary management of existing retained features (hedge cutting or similar),

As such, it was considered unnecessary to fully assess every tree in each hedgerow, group or similar, as retention could be achieved without conflict. Furthermore, due to the presence of growing crops and various hazards, access to all areas was not fully achievable. Occasional (average) trees were however identified randomly across the site to indicate all relevant tree data should such information be required for examples of shadow patterns, theoretical root protection areas or canopy overhangs.

If any particular trees were noted as being in poor condition and that would be recommended for removal regardless of any proposed site operations, such details have been noted in the survey or on associated drawings. Such removals may however be discussed with Ecologists and habitat features considered for retention for wildlife.

It was also noted that all sections of the site have had deep cultivation undertaken for agricultural purposes in very close proximity of all trees and hedges for a considerable number of years.

Such operations will have significantly controlled root morphology within the soils and experience has shown that if roots exist within the fields, they would be at considerable depth.

The proposed solar arrays will be constructed on frames driven into soils and as such, excavations are effectively minimal and the possibility root damage / disturbance negligible.

It is accepted that machinery will be required to implement all operations but such equipment will be appropriate to the site and soil conditions and would be expected to have low ground pressure tyres / tracks to provide stability and avoid unnecessary ground disturbance. Such equipment would have no greater impacts on soils than the large agricultural equipment that has worked across the land.

Cabling will be required to be buried in certain locations and again, in general these would be within cultivated land where any root material would be minimal. Should main cables be required to cross hedge lines containing trees, these will attempt to be located where there are appropriate gaps so as to only cause minimal disturbance.

In consideration of all such observations and the advice obtained, it is considered that the tree data collected is appropriate for the site and will enable a reasonable and balanced assessment of the proposals to be achieved.

Management recommendations have been indicated where considered appropriate and necessary to promote tree health and viability and maintain an acceptable level of safety in respect of existing site conditions and the knowledge that some construction works are proposed.

It should be noted that the BS5837 is the only nationally recognised document which provides guidance and recommendations on the relationship between trees and design, demolition and construction processes. It expects that appropriately qualified and experienced persons will be entrusted with the execution of its provisions.

The British Standard does not provide specific distances for any trees in relation to structures (other than for new plantings and potential damage from incremental

growth) and whilst it may recommend that no construction should occur within the expected root protection areas of retained trees (the default position), the Standards provide detailed guidance on how construction could occur if all appropriate factors and methodologies can be addressed.

They clearly expect that an informed, qualified and experienced person applies due consideration to all issues to achieve a satisfactory design appropriate for any particular site and the identified constraints.

It should also be noted that the Standards advise that they are a form of guidance and recommendations and should not be quoted as if it were a specification.

### **General Description of Site and Surroundings**

The site and surroundings have been described in detail within other submissions.

In respect of arboricultural issues, hedgerows run throughout the site both as formal / flail cut features and more unmanaged features with various trees randomly located along their lengths.

Two large areas of trees exist outwith the site boundaries; a planted woodland to the north west of the upper section of the site and what appears to be a self-set woodland type feature bisecting the western section of the site which, may have been the line of an old railway track.

All trees (or sections of their canopies) are probably visible from public areas outside the site and / or footpaths running through and therefore contribute to visual amenity.

An inspection of the site and consideration of the submitted tree survey will indicate that the majority of trees are in the mature age category with only minimal replanting having been implemented in recent times.

Soils within the area and / or the site have not been analysed however, the successful establishment of trees, hedgerows and crops within the area indicate soils are probably within the neutral to acid range and not waterlogged. The size and growth rates of the general tree population also suggest that soils are reasonably fertile and the local micro climates relatively mild and / or sheltered.

### **Description of Proposed Construction**

Again, all such issues have been fully addressed in other submissions.

The Planning Layout Dwg. No: P007033-11-PlanningLayout-Rev.F is appended for reference purposes.

### **Designation Relating to Trees**

From Barnsley Council's interactive map of Tree Preservation Orders, no trees or woodlands are indicated as having statutory protection.

However, it is always recommended that no tree works should be undertaken within a site without contacting the Local Authority and if necessary, due notification being given to and any necessary consent being received from the Authority.

The potential effect of development on trees whether statutorily protected or not is a material consideration that is taken into account in dealing with planning applications.

Even should items be afforded statutory protection, such orders impose no duty on the owners of the trees and woodlands affected to carry out pruning or other maintenance, either to any particular standard or at all.

This must be a matter for the owners' decision, subject to the duties laid upon him or her by the common law. If a local authority wishes to encourage such works to be carried out, it must do so by permission, through the offer of grants or possibly by the imposition of conditions on consents.

### **Current Situation**

At present the trees identified exist either within or immediately adjacent to the site where no detailed management appears to have been undertaken in recent years.

It has been indicated within the survey however that regardless of ownership, some management may be appropriate to several items so as to avoid conflict during current usage.

Such actions are however entirely dependent upon the owner's requirements.

## **Implications of Development**

### 1. Direct Loss of Trees.

To physically construct the proposed solar arrays and associated ground works, no trees will require removal. A short section of trees adjacent to Engine Lane will however require removal for a new access:

<b>BS5837 CAT</b>	<b>TREE No's</b>	<b>TOTAL</b>
Cat – A High Quality	None	0
Cat – B Moderate Quality	G7	Section of G7 – roadside trees.
Cat – C Low Quality	None	0
Cat – U Poor Quality	None	0

There will therefore be a minor impact upon any visual amenity derived from public areas outside the site

### 2. Indirect Loss of Trees

There will be no indirect losses of trees hedging as a result of proposed access works.

<b>BS5837 CAT</b>	<b>TREE No's</b>	<b>TOTAL</b>
Cat – A High Quality	None	0
Cat – B Moderate Quality	None	0
Cat – C Low Quality	None	0
Cat – U Poor Quality	None	0

There will therefore be no impacts upon any visual amenity derived from public areas outside the site.

### 3. Major Pruning of Trees.

No pruning works would be required to physically construct the proposed solar arrays and associated ground works.

<b>BS5837 CAT</b>	<b>TREE No's</b>	<b>TOTAL</b>
Cat – A High Quality	None	0
Cat – B Moderate Quality	None	0
Cat – C Low Quality	None	0
Cat – U Poor Quality	None	0

There will therefore be no impacts upon the environment as a direct result of the proposals.

#### 4. Indirect Impacts on Trees.

It is not considered at this time that there would be any indirect impacts on trees to physically construct the proposed solar arrays and associated ground works.

<b>BS5837 CAT</b>	<b>TREE No's</b>	<b>TOTAL</b>
Cat – A High Quality	None	0
Cat – B Moderate Quality	None	0
Cat – C Low Quality	None	0
Cat – U Poor Quality	None	0

There will therefore be no impacts upon the environment as a direct result of the proposals.

#### **Construction Methodology / Arboricultural Method Statement.**

It may be requested that an Arboricultural Method Statement be conditioned to any approval for development within the site. As discussed previously however, no solar arrays or associated infrastructure is proposed to be sited near retained trees and / or hedges all as indicated within their General Layout.

One new access point is required to the northern end of G7 although this will be specifically identified and no disturbance would be expected outside the construction footprint.

All existing access points will be retained and arrays aligned so as to avoid major shade issues and maximise efficiency.

Furthermore, historic land usage has resulted in deep and repeated cultivation of all soils tight up to trees hedges and site boundaries. It is highly probable therefore that there are no significant tree roots within the site and no harm will be caused by the proposed operations.

In consideration of all such factors it is unlikely that an Arboricultural Method Statement would be required.

Should for whatever reason it be decided that a Arboricultural Method Statement is necessary, in accordance with BS5837 Figure 1, once the feasibility and planning/design section is complete and Scheme Design Approvals are obtained from Clients and Regulatory bodies, the detailed/technical design stage should be implemented.

In arboricultural terms this will basically involve the preparation and submission of a detailed and comprehensive document to discharge the relevant conditions.

The Arboricultural Method Statement would normally consider the following issues:

- Protection of retained trees / hedges before any materials or machinery are brought onto the site and before any construction or excavations commence.

**Note:** Whilst tree protection fencing may be proposed, site security arrangements may require a substantial fencing / hoarding to be erected around the site on the approximate line of any indicated tree protection fencing which, may be equal or superior to the BS 5837 specification. Site security and tree protection may therefore be combined and can, if required, be agreed with the LPA in due course.

- Removal of any relevant areas of hard surfacing.
- Construction methodology to indicate storage areas, location of welfare units etc.
- Installation of any new surfacing.
- Installation of root friendly surfacing in proximity of any tree root protection areas all in accordance with Arboricultural Association Guidance Note 12, The Use of Cellular Confinement Systems Near Trees: A Guide to Good Practice.
- Specialist foundations, installation techniques and similar.
- Retaining structures.

- Auditable / audited system of arboricultural site monitoring, including a schedule of specific site events requiring input or supervision.
- Contact details for all relevant parties.
- Appointment of a Project Arboriculturalist or similar.

### **Proximity of Trees to Structures.**

The proposed solar arrays and associated works have been designed to adhere to guidance within BS5837:2012 in that they are located outside the root protection areas of trees to be retained.

Space has also been permitted to allow future growth of retained trees although most items are in the mature age category and substantial increases in size / spread would not be expected.

The proposals have been designed to take account of existing trees, their size and density and the effect that these will have on sunlight availability. All areas would be expected to achieve direct sunlight for substantial parts of the day as the sun rotates through its natural arc.

The relationship of structures to large trees can cause apprehension. The layout has considered such factors and the design minimises any potential conflicts. Such locations and juxtapositions will also avoid the need for frequent pruning.

The design creates new environments that will be appropriately managed to the client's / occupiers requirements and may be used for grazing agricultural livestock at a stocking density that is consistent with any biodiversity enhancement measures.

In respect of seasonal nuisances: leaf fall, fruit, honeydew or similar, it is not considered that conflicts would arise, adequate clearances from trees being afforded and the angle of the arrays would naturally shed any detritus.

In consideration of the foregoing assessments it is considered that there will be negligible impacts caused to retained trees by the proximity of the structures or vice versa.

### **Services**

Services into or out of the site would be expected to follow existing routes or be located at an acceptable distance from trees thereby avoiding their expected root protection areas.

All services will be fully assessed and if for whatever reason it becomes necessary to encroach nearer to any trees than currently exist, any excavations will be undertaken

manually or alternative techniques such as drilling or thrust boring utilised all as per guidance in BS5837:2012 or the NJUG publication Volume 4 – Guidelines for the Planning, Installation and Maintenance of utility Apparatus in Proximity to Trees – 2007.

There will therefore be neutral / negligible impact caused by the provision of services.

### **Post Construction**

Should development proceed, neighbouring trees will be expected to be managed to maintain acceptable levels of safety. Such actions would also promote tree health and viability and will maximise the potential of the treescape.

Items may be lost in the future due for example to age, infection, suppression or proposed management as would be expected in any environment but, it would be expected that all such operations would be agreed or consented by the Local Planning Authority and replanting encouraged or conditioned.

It is reasonable to conclude therefore that as a result of the proposed construction there would be no appreciable post development pressure to undertake either inappropriate or undesirable tree works to the detriment of the visual amenity currently afforded from public areas outside the site.

It is therefore considered that any post construction pressures would have a negligible to moderately beneficial impact.

### **Conclusions**

From the foregoing information it can be reasonably concluded that only one short section of G7 requires removal for a new access. There is no requirement for the removal of any other trees / hedges to provide access and / or to implement the installation of the solar arrays and associated infrastructure.

Various items in proximity to the site have been identified as being at theoretical risk from indirect impacts but due to historic deep and repeated cultivation of the land, it has been comprehensively indicated that any such risks are negligible.

The design and layout of the proposals have considered all arboricultural issues and will permit construction to proceed without conflict with retained trees. The juxtaposition of the structure to trees will also ensure there is good sunlight availability, the need for regular pruning regimes will be avoided and seasonal nuisances minimised.

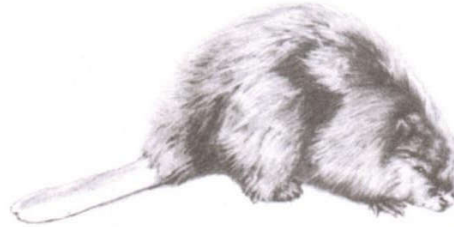
All services can be connected and / or installed without impacting upon retained trees or should it be necessary, installed using accepted techniques that avoid damage or disturbance to rooting environments.

Post construction impacts have been considered which indicate that by creating a new environment with greater levels of activity and management, any vegetation will be positively managed resulting in improved health and viability to the overall treescape.

It is reasonable to conclude therefore that in respect of arboricultural issues should the proposed construction proceed there is likely to be a moderately beneficial impact to the existing treescape and its future viability.

**Iain Tavendale F.Arbor.A**

November 2024.



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ARBORICULTURAL CONSULTANT

**SURVEY DETAILS FOR TREES ON LAND AT ENGINE LANE, GRIMETHORPE, BARNSELY, S72 7BN**

**Issued to: Enviromena Project Management Ltd**

**20 November 2022**

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**Note:**

All tree surgery and felling works detailed should be carried out to a standard, the minimum of which is specified in BS3998:2010 Tree Work - Recommendations.

Contractors should be suitably qualified and experienced to an acceptable standard. They should also be aware that if during operations any defects become apparent that would not have been immediately obvious to the Consultant, that such defects should be notified immediately and confirmed in writing within a reasonable period.

All observations and recommendations only relate to the site and the trees as they were at the time of inspection. Should severe climatic or environmental events or changes take place, it may be necessary to reassess the situation so as to ensure an acceptable and continuing level of safety.

The report does not provide a full health and safety inspection of the trees surveyed. It is not a Tree Hazard Assessment that is specific to minimising the risks and liabilities associated with trees.

Should the inspection have taken place during the dormant season, this will have simplified the inspection of the high crowns and canopies. It will not have been possible however to ascertain either leaf size, colour or density which, can be classic indicators of stress or root associated disorders.

The survey has also been prepared in the knowledge that some form of development may occur on the site. As such, some of the recommendations put forward could be considered unnecessary were the site simply left as it presently exists.

Furthermore, should development be approved, it may be necessary to reassess and amend this document upon completion of all construction operations to ensure that trees, properties and people can all safely co-exist.

All tree numbers refer to those indicated on the attached site drawing. Dimensions of any trees off site may have been estimated if access was not possible.

The report unless stated otherwise, is of a preliminary nature in that the trees were not climbed but inspected from ground level, and no soil or timber samples have been taken for analysis.

A copy of the Consultant's General Conditions of Contract are attached. These form the basis upon which all services and information are provided.

**KEY:**

**Tree No.** - Tree Number – to be recorded on tree survey plan where necessary.

**Species** – common and scientific names, where possible.

**Height** – overall height of the tree in metres

**Stem Dia** - Stem diameter – in millimetres at 1.5m above adjacent ground level (on sloping ground to be taken on the upslope side of the tree base) or immediately above the root flare for multi stemmed trees.

**Branch spread** – in metres taken at the four cardinal points to derive an accurate representation of the crown (to be recorded on the tree survey plan where necessary).

**Height of cc** - Height of crown clearance – in metres above adjacent ground level to inform on ground clearance, crown stem ratio and shading). Where considered desirable, first significant branch and direction of growth e.g. 2.4-N

**Age class** – young (Y), Middle aged (MA), mature (M), over mature (OM) & veteran (V).

**Physiological condition** – e.g. good (g), fair (f), poor (p) & dead (d).

**Structural condition** – e.g. collapsing, the presence of decay and any physical defect.

**Preliminary management recommendations** – including further investigations of suspected defects that require more detailed assessment and potential for wildlife habitat.

**ERC** - Estimated remaining contribution – in years, <10, 10+, 20+, 40+.

**Cat grade** - Category grade – U or A to C (see Table 1) to be recorded in plan on the tree survey plan where appropriate.

**RPA** – Root protection area calculated from BS5837:2012 Trees in Relation to Design, Demolition and Construction – Recommendations in sq/m's. Where indicated, dimensions of radius of circle or sides of square based around centre point of trunk calculated for design purposes.

**RP** – Remedially prune: remove significant dead wood, basal & epicormic shoots, broken, crossing and rubbing branches etc and undertake light reshaping if necessary to improve form and balance/ abate actual or potential nuisance. Ensure adequate clearances over highway (5.2m) and footpath (2.4m)

**#** - estimated dimensions (e.g. for off-site or otherwise inaccessible trees where accurate data cannot be recovered).

Table 1 Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
<b>Trees unsuitable for retention</b> (see Note)				
<b>Category U</b> 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"> <li>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)</li> <li>Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline</li> <li>Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality</li> </ul> <p><i>NOTE</i> Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</p>			See Table 2
	<b>1 Mainly arboricultural qualities</b>	<b>2 Mainly landscape qualities</b>	<b>3 Mainly cultural values, including conservation</b>	
<b>Trees to be considered for retention</b>				
<b>Category A</b> <b>Trees of high quality</b> 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
<b>Category B</b> <b>Trees of moderate quality</b> 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
<b>Category C</b> <b>Trees of low quality</b> 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

Tree No.	Species	H'gt.	Stem Dia.	Branch Spread		H'gt of C.C.	1st Branch @	Age Class	PC	Structural Condition	Preliminary Management Recommendations	ERC	Cat Grade	RPA Sq.m's	RPA Circle of Radii / m's
T1	Ash	19	1200	N E S W	8.3 7.5 7.8 8	5		M/OM	F	Probably topped in the past. In proximity of overhead power lines. Stem bifurcates at ground level. Reasonable vitality. Minor dead wood, old branch stumps and similar all typical of species. Numerous old pruning wounds.	No action at present. Monitor.	10	C2	651.53	14.4
T2	Oak.	20	1000	N E S W	14 14 14 14	4.2	4N	M	F	Ivy clad inspection restricted. Decurrent, spreading form. Low canopy over access road. Reasonable vitality. Minor dead wood, old branch stumps and similar all typical of species.	Consider crown lifting if access is to be used for any high-sided construction / agricultural vehicles to 5.2m	40	A2	452.45	12
T3	Oak.	17	700	N E S W	10 10 10 10	5 over site	3NW	M	F	On edge of water course. Reasonable vitality. Minor dead wood, old branch stumps and similar all typical of species.	No action at present. Monitor	40	A2	221.70	8.4
T4	Oak	19	675	N E S W	9	5	5E	M	F/G	Access restricted. Reasonable vitality. Minor dead wood, old branch stumps and similar all typical of species..	No action at present. Monitor.	40	A2	206.15	8.1
H1	Native deciduous	10	300	N E S W	4	0		M	F	Unmanaged field boundary feature to footpath.	No action at present. Monitor	20	B2	40.72	3.6
H2	Predominantly Hawthorn	6	225	N E S W	2.5 hedge 9.5 trees.	5.5 under trees.		M	F	Well cut hedge line to far side of water course. Occasional large tree. Multi stemmed specimen near bridge / culvert between fields. Max tree dia. 750mm.	No action at present. Monitor	20	B2	22.91	2.7
H3	Predominantly Hawthorn with Sloe. Occasional Standards.	2	200	N E S W	1.5	0		M	F	Flail cut hedgerow. Reasonable vitality. Occasional standards plus small group extending off site to central section. More formal feature to northern section.	No action at present. Monitor	20	B2	18.10	2.4

H4	Mixed native deciduous.	4	150	N E S W	1	0		M	F	All under overhead power lines. Has been flail cut in the past but unmanaged recently. Becomes gappy to eastern end.	No action at present. Monitor	20	C2	10.18	1.8
H5	Hawthorn	5	525	N E S W	4	0		M	F	Remnant hedgerow feature to far side of water course. Major infestation with brambles. Unmanaged. Screen feature to water treatment works.	No action at present. Monitor	10	C2	124.71	6.3
H6	Native mixed deciduous.	15	500	N E S W	6	0		M	F	Mainly to far side of water course, or bottom of bank leading down from field. Screen feature to water treatment plant & highway. Cleared as necessary for OH Power Line. Reasonable vitality.. Minor dead wood, old branch stumps and similar all typical of species.	No action at present. Monitor	20	B2	113.11	6
H7	Hawthorn	5	300	N E S W	3.5	0		M	F	Remnant hedgerow feature of minimal value.	No action at present. Monitor	20	B2	40.72	3.6
H8	Predominantly Hawthorn.	4	100	N E S W	2.5	0		EM	F	On banking running down from highway to field boundary. Unmanaged. Reasonable vitality.	No action at present. Monitor	10	C2	4.52	1.2
H9	Hawthorn + mixed native trees and shrubs.	9	400	N E S W	6	0		M	F	Unmanaged field boundary feature possibly with collapsed wall adjacent.	No action at present. Monitor	10	C2	72.39	4.8
H10	Predominantly Willow	9	150	N E S W	4	0		Y/EM	F	Land flooded at northern end near T2. Reasonable vitality. Unmanaged.	No action at present. May be cut back to afford reasonable clearances over field.	10+	C2	10.18	1.8
H11	Hawthorn hedge + Standards	17	1000	N E S W	8	5		M	F	Predominantly Hawthorn with Ash, Oak & Field Maples within, Has been flail cut back to clear access track. Reasonable vitality. Minor dead wood, old branch stumps and similar all typical of species.	No action at present. Monitor	20	B2	452.45	12

H12	Predominantly Hawthorn + 1 Standard.	3.5	75	N E S W	1	0		Y	F/G	Well cut boundary feature. One oak present in centre row.	No action at present. Monitor	20	B2	2.55	0.9
H13	Hawthorn + mixed native deciduous.	3.5	75	N E S W	1	0		Y	F/G	Well cut boundary feature	No action at present. Monitor	20	C2	2.55	0.9
H14	Mixed deciduous.	16	1000	N E S W	12	0		M/OM	F/P	Some large Willow adjacent to end of A4 badly burnt and partially collapsed into water course. Maximum dimensions for feature.	Consider removal of failed / damaged willows to avoid possibility of flooding in the immediate area.	20	B2	452.45	12
H15	Mixed deciduous	5	75	N E S W	1	0		Y	F/G	Flail cut to field side of water course.	No action at present. Monitor	20	C2	2.55	0.9
H16	Mixed deciduous	3.5	75	N E S W	1	0		Y	F/G	Well cut boundary feature	No action at present. Monitor	20	C2	2.55	0.9
H17	Predominantly Hawthorn.	6	350	N E S W	1.5 over site	0		M	F	On steep bank to water course. Flail cut to field for clearances.	No action at present. Monitor	20	B2	55.42	4.2
H18	Predominantly Hawthorn & Sloe	10	225	N E S W	4	0		EM/M	F	Max dimensions. Ash, Goat Willow (1 dead) & Field Maple Standards within.	No action at present. Monitor Remove dead tree if other management operations being undertaken in area.	20	B2	22.91	2.7
H19	Hawthorn, Sloe, + Oak, Ash & Goat Willow.	19	850	N E S W	10	0		M	F	Relatively wide ecological strip retained beside hedge. Reasonable vitality..	No action at present. Monitor	20	B2	326.89	10.2
H20	Hawthorn, Sloe, + Oak, Ash & Goat Willow.	17.5	675	N E S W	8	0		M	F	Reasonably managed remnant field boundary feature.	No action at present. Monitor	20	B2	206.15	8.1

H21	Predominantly Hawthorn	6	300	N E S W	3.5	0		M	F	Unmanaged to side of water course. Remnant feature. Access restricted.	No action at present. Monitor	20	C2	40.72	3.6
G1	2No. Oak	14	500	N E S W	6.5	5.5		M	F	Access restricted, located within middle of growing crops. All dims estimated.	No action at present. Monitor	20	B2	113.11	6
G2	Sycamore, Oak, Lime & Ash.	14	750	N E S W	8.5	0		M	F	Hedgerow type feature to field boundary with trees within. Reasonable vitality. Minor dead wood, old branch stumps and similar all typical of species. Some dead, dying material within row of possible ecological value. Some gaps + replanting present still within tubes.	No action at present. Monitor. Remove tree protection tubes when trees are satisfactorily established.	20	B2	254.50	9
G3	Predominantly Oak.	18	900	N E S W	8	0		M	F	Linear boundary feature - remnant hedge line. Reasonable vitality.	No action at present. Monitor	20	B2	366.48	10.8
G4	Predominantly Oak.	15	800	N E S W	8.6	0		M	F	Linear feature with items to either side of footpath, Some natural regeneration within area. Reasonable vitality. Minor dead wood, old branch stumps and similar all typical of species.	No action at present. Monitor	20	B2	289.57	9.6
G5	Predominantly Willow	20	1000	N E S W	13 over site	0		OM	F/P	Frequently multi stemmed. Some failures. All to far side of water course in flooded area. Reasonable vitality. Probably off site.	No action at present. Monitor	10	C2	452.45	12
G6	Scrub Oak + mixed native material.	6	300	N E S W	6	0		EM	F	Frequently under OH Power Line. Typical scrub Oak on waste land - all decurrent form. Reasonable vitality.	No action at present. Monitor	20	B2	40.72	3.6
G7	Hawthorn hedge + mixed deciduous native trees & shrubs.	13	425	N E S W	6	0		M	F	Hawthorn hedge to field boundary, trees and shrubs in strip to highway. Avg. dimensions. All unmanaged. Tree mass + hedgerow taper off to northern end. Probably off site.	No action at present. Monitor	20	B2	81.72	5.1

G8	Predominantly Oak.	15	700	N E S W	9.2	5 over site.		M	F	Area has been recently burnt. Tree trunks are charred and may recover but situation unclear at present.	Monitor.	20	B2	221.70	8.4
G9	Hawthorn hedge + Oaks within.	17	700	N E S W	10	5 over site		M	F	Remnant Hawthorn hedge + Oak standards. Reasonable vitality. Minor dead wood, old branch stumps and similar all typical of species.	No action at present. Monitor	20	B2	221.70	8.4
G10	Willow, Oak & Hawthorn	18	900	N E S W	11	0		M/OM	F	Access restricted. Reasonable vitality. Minor dead wood, old branch stumps and similar all typical of species. Some willow failure apparent.	No action at present. Monitor	20	B2	366.48	10.8
A1	Mixed native deciduous.	11	400	N E S W	4	0		Y/EM	F	Garden boundary / buffer zone. Some random topping & management possibly to abate nuisance. Reasonable vitality. Hedge to boundary with amorphous planting of trees and shrubs to rear.	No action at present. Monitor	20	B2	72.39	4.8
A2	Oak, Willow & Poplar.	20	650	N E S W	9	0		M	F	Existing in area around water course. Reasonable vitality. Minor dead wood, old branch stumps and similar all typical of species. Some recent fire damage but extent of damage not fully ascertainable at this time.	No action at present. Monitor	20	B2	191.16	7.8
A3	Mixed native deciduous.	11	300	N E S W	2 over site.	0		M	F	Hawthorn hedgerow remnant feature to field boundary with trees and shrubs developing to far side on edges of footpath.	No action at present. Monitor	20	B2	40.72	3.6
A4	Predominantly Silver Birch & Oak	14	150	N E S W	3	0		Y/EM	F	Some minor fire damage. Degree of recovery evident with Sloe understorey. Willows to east side adjacent to water course with up to 1m overhang - see H14.	No action at present. Monitor	20	B2	10.18	1.8

W1	Pine	24	575	N E S W	9.5	2		M	F	Some recent fire damage. Extent of impacts not fully ascertainable at this time. To far side of access track running alongside field. Several Oaks to southern end in poor condition. Ownership unclear.	No action at present. Monitor	20	B2	149.59	6.9
W2	Oak & mixed native deciduous.	13	400	N E S W	6	0		M	F	Foliage generally cut back to boundary on western side. Various clear spaces with central access running through. Reasonable vitality.	No action at present. Monitor	20	B2	72.39	4.8

**IAIN TAVENDALE F.Arbor.A**  
**ARBORICULTURAL CONSULTANT**

**General Conditions of Contract**

**1. DEFINITIONS**

In these Conditions:

"Consultant" means Iain Tavendale F.Arbor.A.

"Contract" means the contract for the provision of Services.

"Employer" means the person whose request for the provision of the Services is accepted by the Consultant or who accepts a written quotation of the Consultant

"Site" means the area in which the Services are to be carried out as specified in writing to the Consultant prior to his commencing the provision of the Services.

"Services" means the services of arboricultural consultant to be supplied to the Employer by the Consultant in accordance with these Conditions.

**2. BASIS OF THE CONTRACT**

The consultant shall provide to the Employer and the Employer shall accept the Services in accordance with any written quotation of the Consultant which is accepted by the Employer or any request to provide services of the Employer which is accepted by the Consultant to appropriate British Standards and within a reasonable time. Time shall not be of the essence of the Contract. These conditions shall govern the Contract to the exclusion of any other terms and conditions and no variation to these Conditions shall be binding unless agreed between the Employer and the Consultant. No variation of the Services will be made without prior agreement in writing between the Employer and the Consultant. (The Consultant's employees or agents are not authorised to make any representations concerning the Services unless confirmed by the Consultant in writing.)

**3. THE CONSULTANT SHALL:**

- a) be entitled to subcontract assign or transfer any or all of the Contract without informing the Employer. The Consultant shall be responsible for its obligations under the Contract where sub-contracting takes place.
- b) be responsible for making good at his own cost any damage caused as a result solely of his own work.
- c) on completion of the Contract leave the site reasonably clean and tidy from his own work.

**4. THE EMPLOYER SHALL:**

- a) be responsible for ensuring that the Consultant is notified of all Tree Preservation or Conservation Area Orders, Private Covenants, the need for Felling Licences, or Planning Legislation that is applicable to the Contract.
- b) be responsible for ensuring that the Consultant is notified of all springs, wells, service pipes and cables, sewage or land drains, or any other hazards or obstructions which are not discoverable upon immediate visual inspection of the surface of the site. Any breach of this responsibility shall entitle the Consultant to make a reasonable charge for any additional work caused by such hazards or obstructions.

**5. CONTRACT PRICES**

The price for the Services shall not include Value Added Tax which the Employer shall be additionally liable to pay to the Consultant. The price which the Employer shall be liable to pay shall be determined by reference to the Consultants hourly charge rate current at the date of completion of the Services. In addition the Employer shall be liable to reimburse the Consultant for such expenses as may reasonably and properly be incurred by him in the performance of the services as Consultant. Written details of the Consultant's hourly charge rate will be provided to the Employer on written request by the Employer.

**6. METHOD OF PAYMENT**

- a) Subject to any special terms agreed in writing between the Employer and the Consultant the Consultant shall be entitled to invoice the Employer for the price of the Services on or at any time after the Services have been completed.
- b) The Employer undertakes to pay the Consultant within 28 days of the date of the Consultant's invoice. The time of payment of the price shall be of the essence of the Contract.
- c) Failure by the Employer to make payment on the due date, will entitle the Consultant to interest on the amount unpaid at 3% per annum above the base rate of Barclays Bank plc from time to time until payment in full is made and will further enable the Consultant to cancel the contract or suspend any further provision of Services to the Employer.
- d) If the Consultant fails to perform the Services for any reason other than any cause beyond the Consultant's reasonable control or the Employer's fault and the Consultant is accordingly liable to the Employer, the Consultant's liability shall be limited to the excess (if any) of the cost to the Employer (in the cheapest available market) of services to replace those not completed over the price of the Services.

**7. DISPUTES**

- a) Where disputes arising from the Contract cannot be resolved by the Employer and the Consultant, then an independent single arbitrator agreeable to both parties (or in default of agreement nominated on the application of either party by the Chairman of the Professional Committee of the Arboricultural Association for the time being) shall be employed.
- b) The losing party will pay the resulting costs, unless otherwise decided by the arbitrator.
- c) The Contract shall be governed by the Laws of England.

**8. THE SITE**

Access

- i) The Consultant will have free and reasonable access within the Site. Any areas that are to be excluded from this should be notified in writing to the Consultant prior to the date on which the Services are commenced.
- ii) The Employer shall ensure that the Consultant has access to private areas outside the site reasonably necessary in order that the Services can be carried out.
- iii) The Employer shall indemnify the Consultant against any liability incurred by the Consultant (of whatsoever nature) due to his having entered on private areas without permission of the owner when the Employer has stated free access has been negotiated.

**9. LIABILITY**

- a) The Consultant shall not be liable to the Employer or be deemed to be in breach of the Contract by reason of any delay in performing the Services, if the delay or failure was due to any cause beyond the Consultant's reasonable control. Without prejudice to the generality of the foregoing, the following shall be regarded as causes beyond the Consultant's reasonable control:
  - i) Act of God, explosion, flood, tempest, fire or accident;
  - ii) acts, restrictions, regulations, bye-laws, prohibitions or measures of any kind on the part of any governmental, parliamentary or local authority;
  - iii) strikes, lock-outs or other industrial actions or trade disputes.
- b) The Consultant shall not be responsible or liable for any work undertaken as a result of recommendations by the Consultant unless, or until, such work is carried out and both supervised and approved by the Consultant.

**10. QUOTATION**

- a) Any quotation given by the Consultant to the Employer shall remain open for acceptance for 30 days from the date of such quotation and thereafter lapses automatically.
- b) Acceptance of such quotation involves acceptance of these conditions. It should be noted that any attempted or actual cancellation thereof by the Employer may involve the Employer in a claim for recovery by the Consultant of any loss or expense incurred as a result.
- c) The Consultant is the owner of the copyright existing in any such quotation and it shall not be copied without the prior written consent of the Consultant. Any reproduction before obtaining the Consultant's consent constitutes an infringement of copyright and a breach of the Contract entitling the Consultant inter alia to rescind the Contract and rendering the Employer liable for payment of damages.

**11. INSOLVENCY OF EMPLOYER**

This clause applies if:

- a) the employer makes any voluntary arrangement with its creditors or becomes subject to an administration order or (being an individual or firm) becomes bankrupt or (being a company) goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction); or
- b) an encumbrancer takes possession, or a receiver is appointed, of any of the property or assets of the Employer; or
- c) the Employer ceases, or threatens to cease, to carry on business; or
- d) the Consultant reasonably apprehends that any of the events mentioned above is about to occur in relation to the Employer and notifies the Employer accordingly.

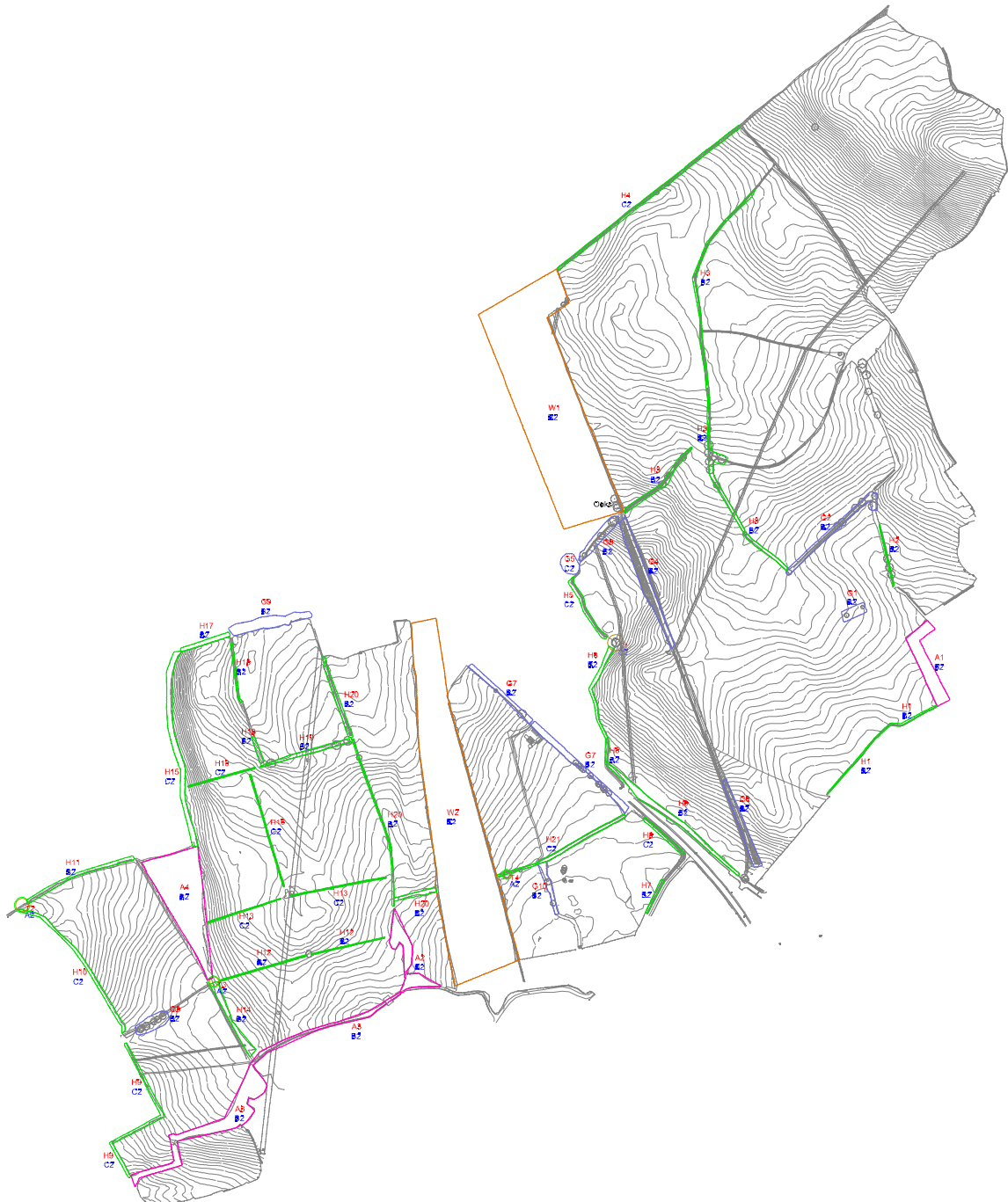
If this clause applies then without prejudice to any other right or remedy available to the Consultant, the Consultant shall be entitled to cancel the Contract or suspend any further provision of Services under the Contract without any liability to the Employer, and if the services have been completed but not paid for the price shall become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.

**12. OWNERSHIP/COPYRIGHT**

The Consultant is the owner of the copyright in any report tender documentation and/or recommendations and all associated information submitted to the Employer by the Consultant. The report recommendations tender documentation and all associated information submitted to the Employer shall not be copied without prior written consent of the Consultant. Any reproduction before obtaining the Consultant's consent constitutes an infringement of copyright and a breach of the Contract entitling the Consultant, inter alia, to rescind the Contract and rendering the Employer liable for payment of damages.

**13. GENERAL**

- a) Any notice required or permitted to be given by either party to the other under these Conditions shall be in writing addressed to that other party at its registered office or principal place of business or such other address as may at the relevant time have been notified pursuant to this provision to the party giving notice.
- b) No waiver by the Consultant of any breach of the Contract by the Employer shall be considered as a waiver of any subsequent breach of the same or any other provision.
- c) If any provision of these conditions is held by any competent authority to be invalid or unenforceable in whole or in part the validity of the other provisions of these Conditions and the remainder of the provision in question shall not be affected thereby.
- d) The headings in these Conditions are for convenience only and shall not affect their interpretation.



General Notes

LEGEND

- AREA
- GROUP
- HEDGE
- WOOD
- TRUNK LOCATION
- TREE SHADE (4 m)
- A1 AREA REFERENCE
- G1 GROUP REFERENCE
- H1 HEDGE REFERENCE
- T1 TREE REFERENCE
- W1 WOOD REFERENCE
- B2 CATEGORY GRADE

TREE CATEGORY GRADES

- CATEGORY A
- CATEGORY B
- CATEGORY C
- CATEGORY D
- ROOT PROTECTION AREA

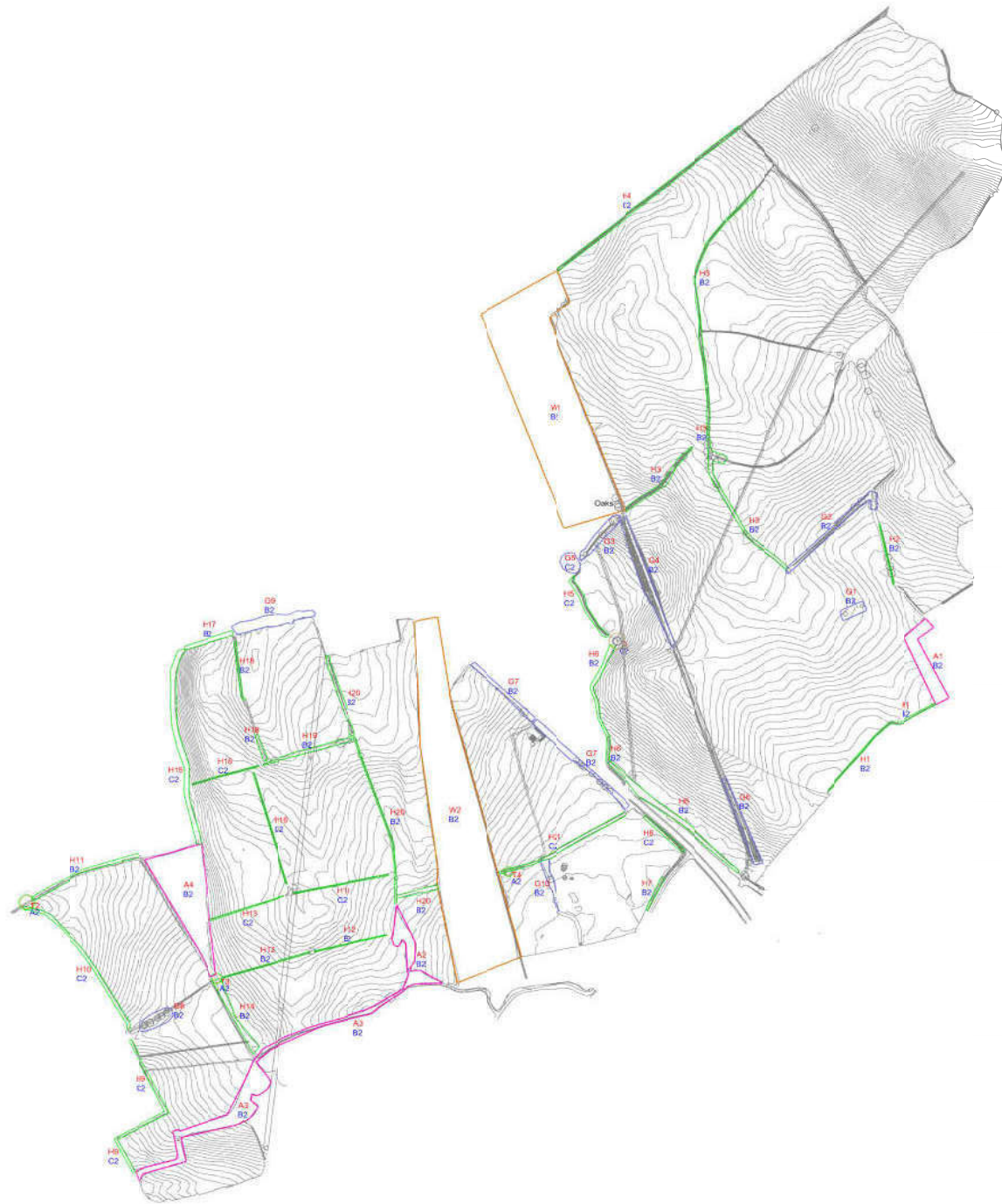
No.	Revision/Issue	Date



Project Name and Address

**Grimethorpe**  
**No Shadow.**

Drawn by www.YogCad.co.uk	Checked IT
Date Jan 2023	
Scale 1:4000 @ A1	



General Notes

LEGEND

- AREA
- GROUP
- HEDGE
- WOOD
- TRUNK LOCATION
- TREE SHADE (24m)
- A1** AREA REFERENCE
- G1** GROUP REFERENCE
- H1** HEDGE REFERENCE
- T1** TREE REFERENCE
- W1** WOOD REFERENCE
- B2** CATEGORY GRADE

TREE CANOPY SERIES:

- CATEGORY A
- CATEGORY B
- CATEGORY C
- CATEGORY U
- ROOT PROTECTION AREA

No.	Revision/Issue	Date



Project Name and Address

**Grimethorpe**  
**Shadow.**

Drawn by: www.YourCadd.co.uk Checked: IT

Date: Jan 2023

Scale: 1:4000 @ A1



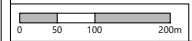
Legend	
	Landlord Boundary
	Site Boundary
	Perimeter Fence
	Customer Substation
	Site Access
	Transformer Station
	PV Array
	Screening
	T-Boot



New pylon to be installed to connect to existing 132kV network

132kV/132kV Compound including Customer transformer and DNO Circuit Breaker

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REVISION	DESCRIPTION	BY	DATE
U	Updated using General Layout RevZ	CC	09/11/2023
F	Updated using General Layout RevY	CC	31/07/2023
E	Updated using General Layout RevW	CC	18/07/2023
D	Updated using General Layout RevV	CC	15/08/2022
C	Updated using General Layout RevU	CC	08/07/2022
B	Updated using General Layout RevT	CC	22/11/2023
A	Created using General Layout RevQ	BV	05/07/2022

<b>Site Address</b> Engine Lane Grimethorpe Barnsley S72 7BN		<b>Project</b> Grimethorpe Planning Layout	
<b>Company Details</b> Enviromena Project Management UK Ltd. 15 Diddemham Court, Grazeley Reading, RG7 1JQ T: +44 330 107 1415		<b>Number</b> 2007033-11-Planning layout	
<b>Type</b> Site Layout		<b>Scale</b> 1:250	<b>Sheet</b> 1 of 1
<b>Drawn</b> CC	<b>Checked</b> CC	<b>Approved</b> CC	<b>Author</b> AB