



Arboricultural Report

ET Biogas Ventures Ltd

**Land off of Wardentree Lane,
Spalding**

Ref: 15-0373 3881 01

Version: 2

Date: June 2015

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Purpose of Document

The purpose of this document is:

- To demonstrate how trees have been considered within and influenced the design process for the proposed development.
- To allow the local planning authority (South Holland District Council) to assess the impact of the proposed development on retained trees.
- To demonstrate that the evolution of the design of the development has been guided by and followed best practice guidelines, with particular reference to BS5837 (2012) Trees in relation to design, demolition and construction.

This report has been written to allow a non-technical person to be able to review and understand the influence that trees have had within the planning process.

Executive Summary

The proposed development is for the construction of a new anaerobic digestion plant with associated access and facilities. Throughout the design process the retention of boundary trees has been of paramount importance. These trees offer significant visual screening to the site and the design of the site has been adapted to ensure that these trees are retained and protected during the development phase so as to remain sustainable in the longer term. Several sections of trees, located internally to the site, will require removal in order to facilitate the proposed development and access route into the site. Removal of these will have no long term impact on the amenity or visual value of the site, and is considered a necessity in order to enable the proposed development to proceed.

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Attachments:

Document/Plan	Ref	Version
Tree Schedule	15-0376	1
Tree Constraints Plan	D15-0377	1
Arboricultural Impact Plan	D15-0374	1
Indicative Tree Protection Plan	D15-0375	1

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1. SITE AND TREE SURVEY

- 1.1. The assessment of the trees has been carried out in accordance with the guidance provided in Annex C of BS5837.
- 1.2. All observations were made from ground level, without detailed investigation with regard to the general condition of the trees.
- 1.3. Trees that are located outside of the site have been considered as part of this survey, and have been annotated on the accompanying plan as such.
- 1.4. Stem diameter measurements were taken using a girth tape and in accordance with Annex D of BS5837. Where access to the base of the trees was not possible for any reason, the diameter has been estimated.
- 1.5. A copy of the schedule of trees is attached to the report (Ref: 15-0376). The location of the trees has been plotted on the attached Tree Constraints Plan (TCP) (Ref: D15-0377). The crown spread of the trees has been illustrated with a continuous green line and Root Protection Areas (RPAs) by a magenta line with text embedded in the line.
- 1.6. The area that is subject to this planning application has the potential to affect the wooded boundaries as shown on the attached Arboricultural Implications Plan (AIP) (Ref: D15-0374).
- 1.7. Full details of the tree constraints data can be seen in Appendix 1: Administrative Background

Instruction

Written instruction was received from Alan Bell of ET Biogas Ventures Ltd to carry out a survey of the trees at land off of Wardentree Lane, Spalding.

The survey was to be carried out in accordance with the recommendations laid down by BS5837: Trees in relation to construction, and to assist in the preparation of a report to accompany a planning application. The report was to include:

- A schedule of the relevant trees to include basis data and condition assessment
- An appraisal of the impact that the proposed development may have on the trees, and the resulting impact this may have on the local amenity.
- An arboricultural method statement dealing with protection and the management of the trees to be retained.

Documents Provided

The plan is derived from the following provided information:

- Topographical survey (Ref: 19597/002) prepared by Plandescil Consulting Engineers in December 2014.
- Layout drawing (Ref: 19597 - 003 Rev G/004 Rev C) prepared by ET Biogas Ventures Ltd, received by email on 08 June 2015.

Limitations of this report

The following limitations apply to this report:

Statutory Protection: The existence of tree preservation order or conservation area protection does not automatically mean trees are worthy of being a material constraint in a planning context. Trees can be

formally protected but be in poor structural condition or in declining health, which means they are unsuitable for retention or influencing the future use of the site. Furthermore a planning consent automatically takes precedent over these forms of protection, which makes them of secondary importance. For these reasons, I do not check statutory protection as a matter of course in the process of preparing this report. However if any tree works are proposed before a planning consent is given, then the existence of any statutory protection must be checked with the local authority.

Ecology and Archaeology: Although trees can be a valuable ecological habitat and can grow in archeologically sensitive areas, I have no specialist expertise in these disciplines and this report does not consider those aspects.

Tree Safety: While every effort has been made to ensure that comments relating to the tree surveyed are accurate, it must be noted that no tree have been climbed, no internal inspections carried out and no excavation of root areas has taken place. As such this report should not be taken to mean or imply that any of the inspected trees should be considered safe. No tree can be guaranteed to be 100% safe as some defects are not detectable by visual non-climbed, non-invasive inspection. Failure of an apparently healthy tree, either in part or totally may occur as a result of physical or physiological stress.

Soil Assessment: A soil assessment should be undertaken by a suitably qualified person to assess soil structure, soil composition and soil pH. The purpose of this is to provide guidance in any decisions relating to:

- The root protection area
- Tree protection;
- New planting design; and
- Foundation design

No details of a soil survey have been provided for submission with this report.

Technical References

The arboricultural method statement is based purely on the following technical references:

- British Standards Institute (2012) BS5837: Trees in relation to design, demolition and construction – recommendations

Qualifications and Experience

This report is based on Shaun Phillips' (Arboricultural Consultant) site observations and the provided information.

I have 3 years arboricultural and forestry experience working in the public and private sector. I have undertaken work on a variety of projects on behalf of private and commercial clients.

I have an MSc in Arboriculture and Urban Forestry, awarded by Myerscough College and University of Central Lancashire. I also have a BSc in Countryside Management, awarded by Harper Adams University College.

I am a Professional member of the Arboricultural Association and an Associate member of the Institute of Chartered Foresters.

Appendix 2: BS5837 Cascade Chart

1.8. Appendix 3.

2. ARBORICULTURAL IMPACT ASSESSMENT

Development Proposal

- 2.1. The proposal is for the development of an anaerobic digester plant with associated access and facilities (hereinafter referred to as The Plant).
- 2.2. The layout of this site has considered the presence of screening trees, located along the northern, eastern and western boundary of the site.
- 2.3. The retention and protection of these trees, to maintain a site screen, has been the guiding principle within reasonable construction parameters. Although the boundary trees are of mixed quality and age they are considered to offer visual significance to the plot, both in the short term and in the long term.
- 2.4. The key constraints posed by the trees to the site layout are presented graphically on the attached AIP.

G1 - Mixed Broadleaves

- 2.5. A small section of this group will require removal in order to facilitate the proposed access route into the site. Trees either side of the access route will be retained in order to maintain the boundary screen. The RPAs that may be impacted through the construction of the new access route will be protected through a 'no-dig' solution. Further details on this protection measure are provided in Section 3 of this report.
- 2.6. Another section of the group, located in the north east corner of the site, will require removal. These trees are not visible externally to the site and therefore their removal will have no adverse impact on the wider community of visual amenity of the site to the immediate surrounding areas.
- 2.7. The remainder of the RPA of this group will be protected through the use of fencing. As such the proposal will not have a long term negative impact on the sustainability of this group.

G2 - Alder

- 2.8. A significant part of this group of boundary trees will require removal in order to construct the proposed plant and provide sufficient working room. The trees proposed for removal are located internally to the site and are not visible externally. Trees along the boundary which are visible externally, will be retained (where possible) in order to ensure the vegetative screen is preserved. Therefore, the proposed removal will have no adverse impact on the wider community of visual amenity of the site to the immediate surrounding areas.
- 2.9. In addition, this group will require selective thinning, as good forestry practice, in order to ensure that trees have enough space to grow and continue to provide a sufficient and sustainable boundary screen. Should trees be removed replacement specimens should be planted within the following planting season.
- 2.10. The remainder of the RPA of this group will be protected through the use of fencing. As such the proposal will not have a long term negative impact on the sustainability of this group.

3. TREE PROTECTION MEASURES

- 3.1. The protection of the retained trees will form a critical part of the development process.

- 3.2. Indicative protection measures can be seen on the attached Tree Protection Plan (TPP) (Ref: D15-0375).
- 3.3. Areas of the groups marked for removal have been identified with a thick red dashed line on the attached TPP.

Tree Protective Fencing

- 3.4. The primary form of protection will be through the use of fencing. The precise form of fencing can vary provided it is fit for purpose and prevents damaging activities within the protected area. For a development such as is being proposed for the stables courtyard, the Heras 151 system of fencing is recommended. This will be compliant with the recommendations of BS5837. Details of this fencing can be seen on the attached TPP.
- 3.5. The Heras fence panels should be joined using a coupling system such as the Heraslock Anti-tamper coupler, using a minimum of two clamps per panel side, and separated vertically by a distance of 1m. The panels should be secured to the ground using bracing poles or some other suitable form of support that ensures that they are fit for the purpose of excluding site traffic from the protected area and remain rigid and complete.
- 3.6. The indicative location of protective fencing has been illustrated on the attached TPP with a black dashed line. This creates a Construction Exclusion Zone (CEZ) that has been illustrated with orange diagonal hatching. This area is to remain free from construction works throughout the duration of the project.
- 3.7. It is anticipated that an Arboricultural Method Statement will be required as a condition of any planning consent to provide detail of how the necessary tree protection can be implemented.
- 3.8. The processes of construction are highly unlikely to have a detrimental effect upon the health of the retained trees assuming recommendations made in this report are adhered to at all times by the contractors.

Ground Protection

- 3.9. Where parts of the development area cannot be protected through the use of fencing, it will be necessary to provide alternative measures to ensure that the rooting environment is protected.
- 3.10. The parameters of any ground protection measures must be such that:
- The ground is shielded to minimise the likelihood of compaction from any construction activity, whether from vehicles, pedestrians or the storage of materials.
 - The ground screened to minimise the likelihood of soil contamination.
 - Whatever surface is used must be permeable and porous.
 - The material used must be robust and capable of being retained in situ for a long period of time after the development is complete.
 - There must be no excavation of the existing ground level for the installation of these protection measures.
- 3.11. There are several products that are available in the market place to provide this level of protection. It is recommended that a three dimensional cellular confinement system, such as CellWeb or InfraWeb, is used for the purpose of permanent ground protection.
- 3.12. Whatever product is used, the manufacturer should provide evidence of independently verified testing to demonstrate that the product is capable of offering the necessary protection to the rooting environment.
- 3.13. The area proposed for permanent ground protection has been illustrated on the attached TPP with dark green cross-hatching.

Appendix 1: Administrative Background

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Appendix 2: BS5837 Cascade Chart

BRITISH STANDARD

BS 5837:2012

Table 1 Cascade chart for tree quality assessment

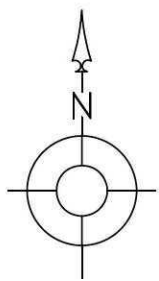
Category and definition	Criteria (including subcategories where appropriate)	Identification plan
Trees unsuitable for retention (see Note)		
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	- Trees that have a serious, irreparable, structural defect, such that their early loss is expected due to collapse, including those that will become unstable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) - Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline - Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.	See Table 2
Trees to be considered for retention		
1 Mainly arboricultural qualities		
2 Mainly landscape qualities		
3 Mainly cultural values, including conservation		
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
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 with material conservation or other cultural value
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 with no material conservation or other cultural value

Appendix 3: Tree Constraints Data

Tree No	Species	Stem Diameter (mm)	Circle Radius (m)	RPA (m ²)	Length of sides of a square (m)	Minimum barrier distance (m)
1	Mixed Broadleaves	300	3.6	41	6	3.2
2	Alder (Group)	100	1.2	5	2	1.1

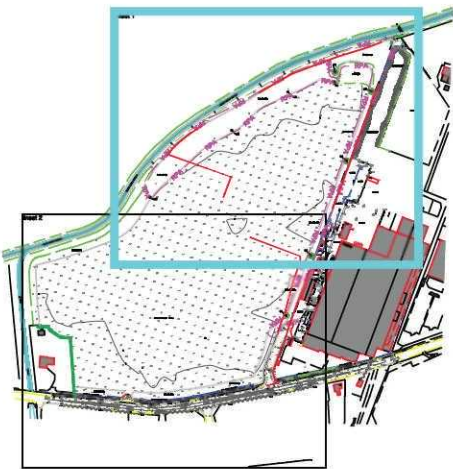
Client: ET Biogas Ventures Ltd										Reference: 15-0376/3881/01 v1									
Site: Land off of Wardentree Lane, Spalding										Surveyor: Shaun Phillips									
Key to Notations										Date of survey: 26/05/2015									
Stem Dia:										Stem diameter (mm) at 1.5m above ground level									
C.C.										Height of crown clearance above ground level									
L.B.										Lowest branch height in meters									
D.L.B.										Direction of Lowest Branch									
U.L.E.										Useful Life Expectancy of tree in years									
Physiological condition										Good									
Structural condition										Good									
										No significant health problems									
										No significant defects									
										Fair									
										Fair									
										Symptoms of health that can be remediated									
										Poor									
										Significant ill health									
										Significant defects that can be remediated									
										Poor									
										Significant defects with no remedy									

Tree No.	Tag No.	Species	Botanical Name	H (m)	Stem Dia.	No of Stems	Branch Spread (m)				CC (m)	LB (m)	DLB (m)	Age	PC	SC	Comments	Recommendations	ULE	Cat.	RPA (m2)	RPA Radial distance (m)
							N	E	S	W												
1	G1	Mixed Broadleaves	Mixed Broadleaves	9	300	1	3	3	3	3	1	1	East	EM	Fair	Fair	Mixed heights from 4-10m. Species include birch, ash, oak, pine, alder, hawthorn, blackthorn and cherry. Group forms screen on eastern boundary.	Small section off offsite access road will require removing in order to allow access route to be constructed. Neighboring trees should be crown lifted to 4.5-5m to facilitate access post construction.	20-40	C2	41	4
2	G2	Alder (Group)	<i>Alnus spp.</i>	6	100	1	1	1	1	1	0	0	East	Y	Fair	Fair	Young dense self seeded specimens that form low level screen.	Group will require thinning regime as good forestry practice.	20-40	C2	5	1



LEGEND

- Category A trees
- Category B trees
- Category C trees
- Category U trees or trees for removal
- Root Protection Area
- Tree Crown Spread
- Indicative Site Boundary



TITLE:
Tree Constraints Plan - Plan 1

PROJECT/SITE: Land off of Wardentree Lane, Spalding

CLIENT:
ET Biogas Ventures Ltd

MAP REF:
3881/01/D15-0377

REVISION:
1

DATE:
08/06/15

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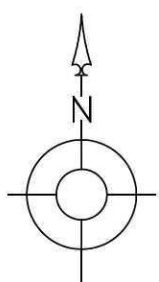
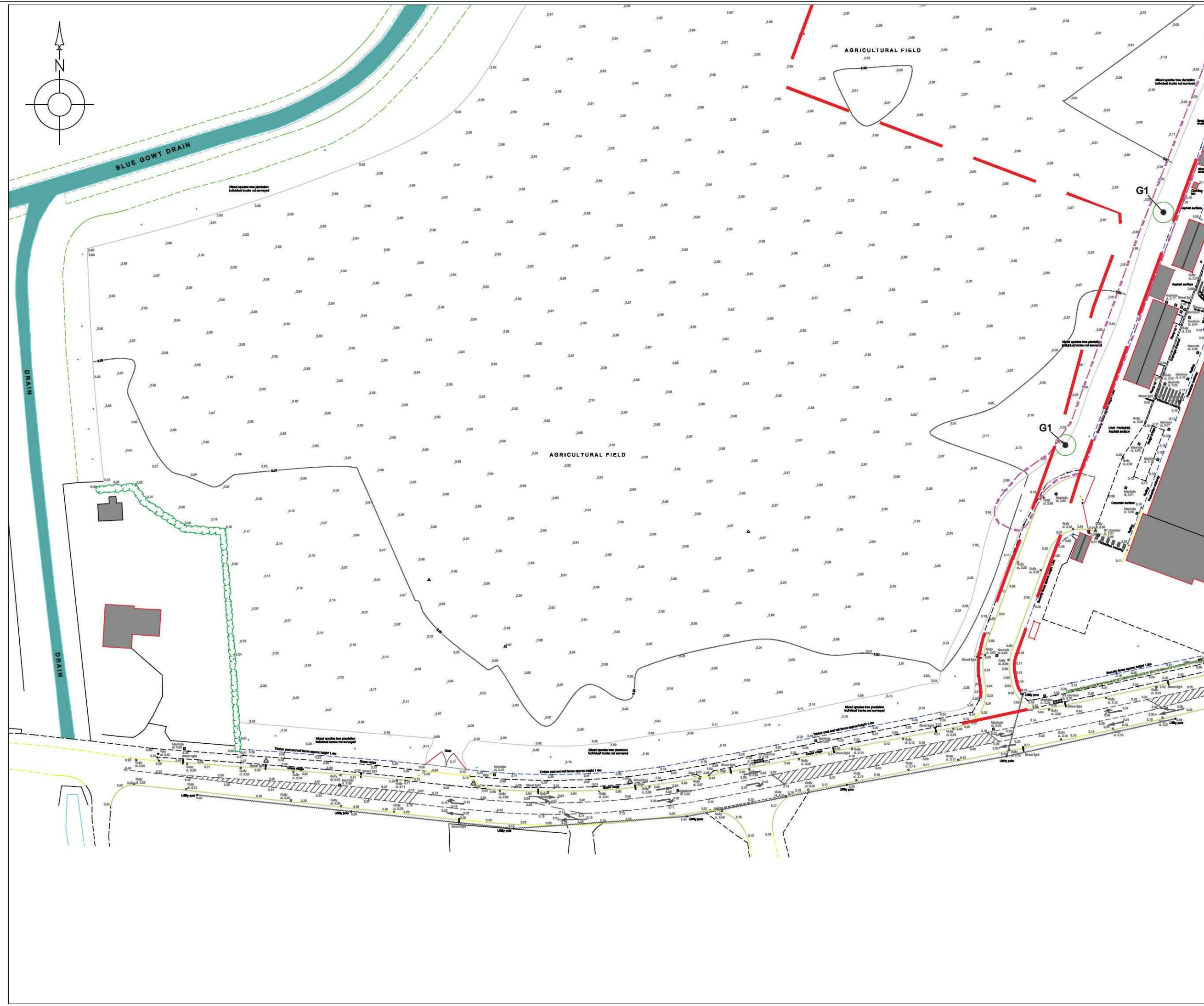
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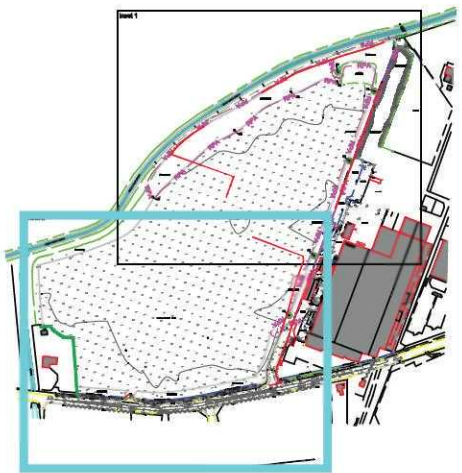
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01608 648657



LEGEND

- Category A trees
- Category B trees
- Category C trees
- Category U trees or trees for removal
- Root Protection Area
- Tree Crown Spread
- Indicative Site Boundary

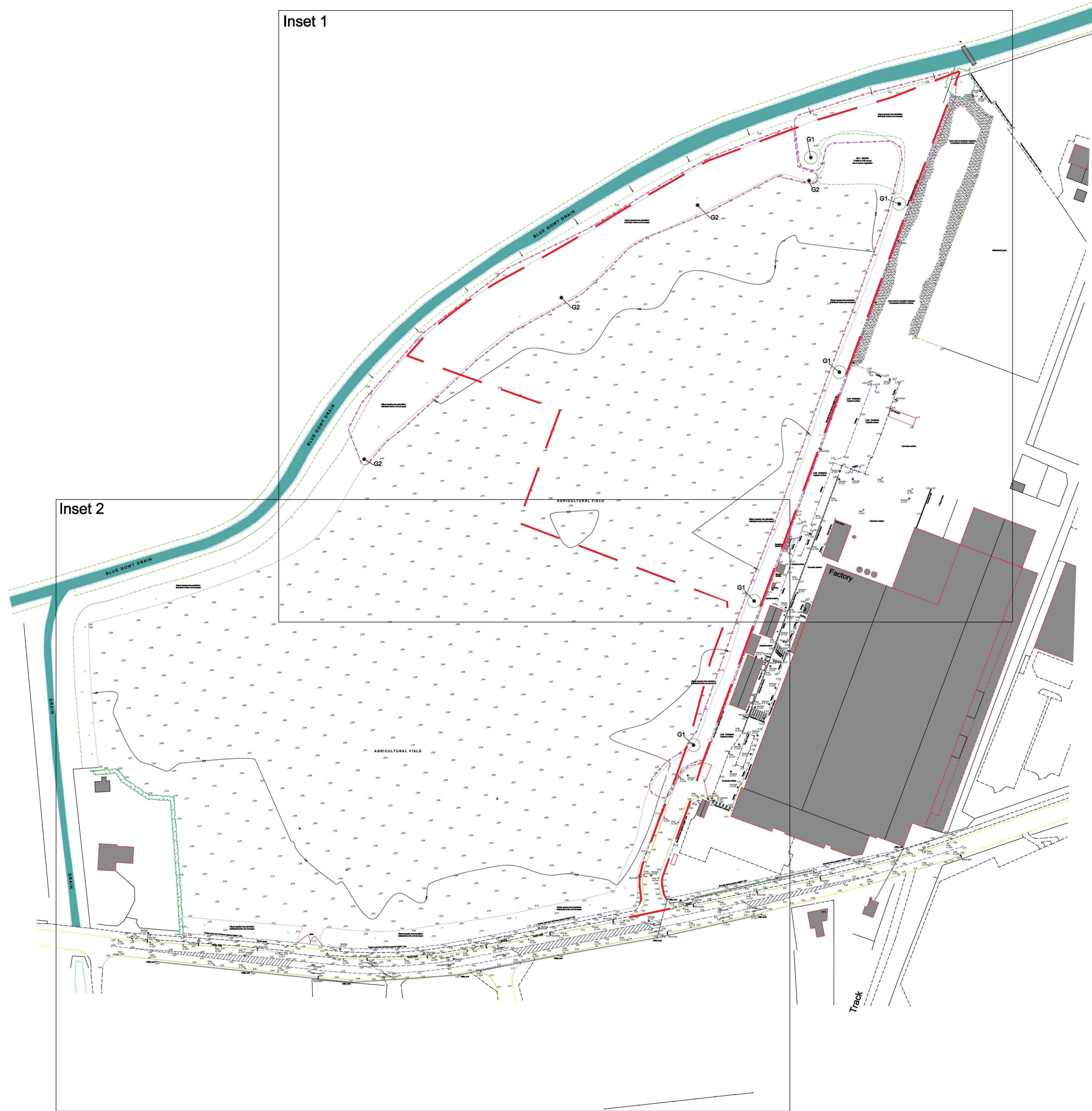
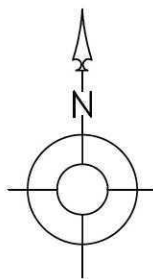


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TITLE: Tree Constraints Plan - Plan 2	
PROJECT/SITE: Land off of Wardentree Lane, Spalding	
CLIENT: ET Biogas Ventures Ltd	
MAP REF: 3881/01/D15-0377	
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LEGEND

- Category A trees
- Category B trees
- Category C trees
- Category U trees or trees for removal
- Root Protection Area
- Tree Crown Spread
- Indicative Site Boundary

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TITLE:
Tree Constraints Plan - Overview

PROJECT/SITE:
Land off of Wardentree Lane, Spalding

CLIENT:
ET Biogas Ventures Ltd

MAP REF:
3881/01/D15-0377

REVISION:
1

DATE:
08/06/15

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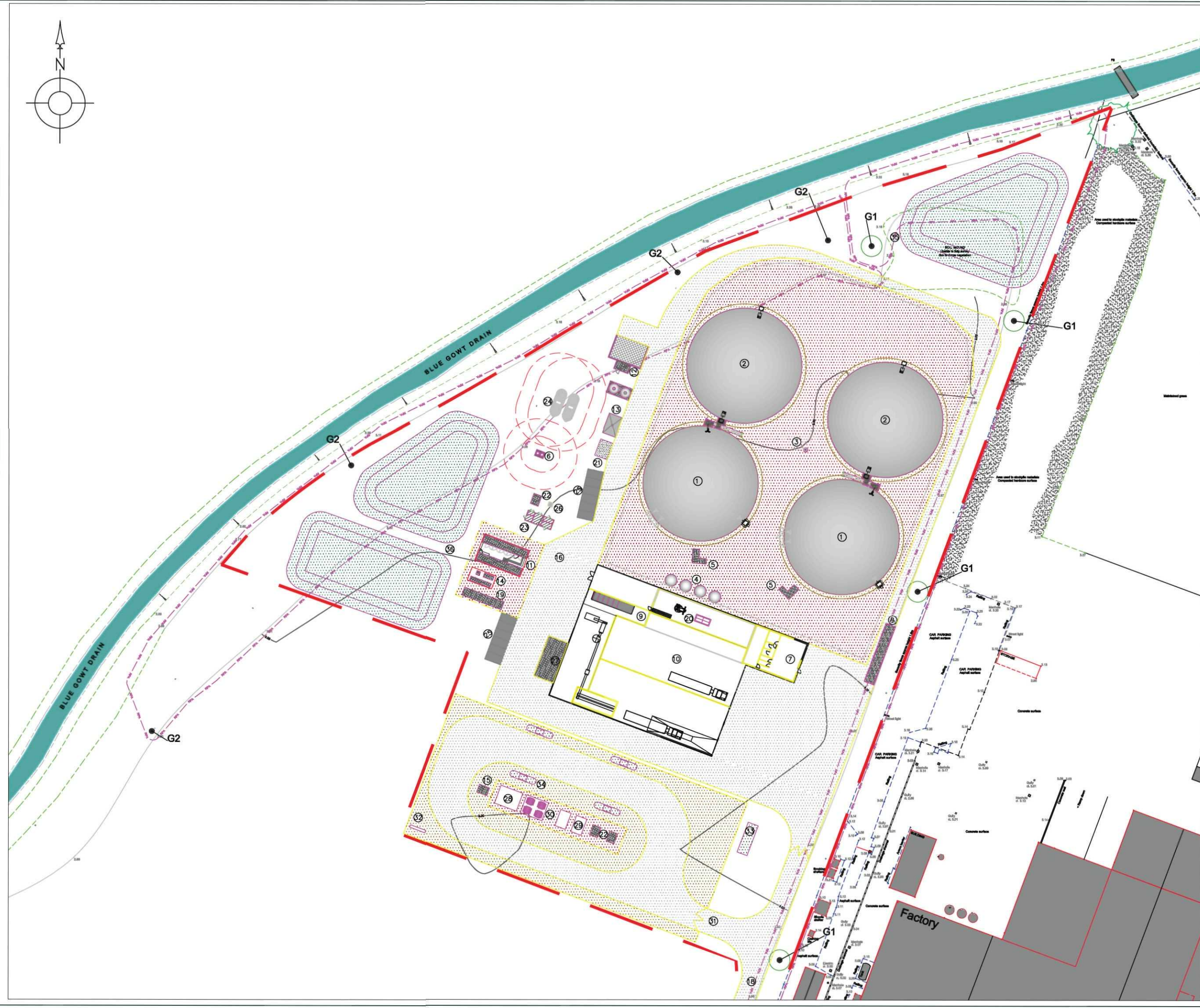
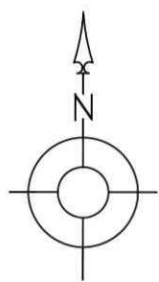
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LEGEND

- Category A trees
- Category B trees
- Category C trees
- Category U trees or trees for removal
- Root Protection Area
- Tree Crown Spread
- Proposed Layout



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TITLE:
Arboricultural Impact Plan - Plan 1

PROJECT/SITE: Land off of Wardentree Lane, Spalding

CLIENT:
ET Biogas Ventures Ltd

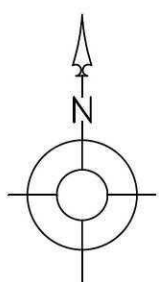
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LEGEND

Category A trees

Category B trees

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TITLE:
Arboricultural Impact Plan - Plan 2

PROJECT/SITE: **Land off of Wardentree Lane, Spalding**

CLIENT:
ET Biogas Ventures Ltd

MAP REF:
3881/01/D15-0374

REVISION:
1

DATE:
10/06/15

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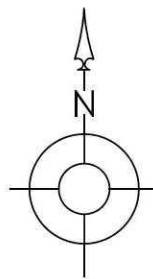
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LEGEND

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- Category B trees
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- Category U trees or trees for removal
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- Tree Crown Spread
- Proposed Layout

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CLIENT: ET Biogas Ventures Ltd

MAP REF: 3881/01/D15-0374

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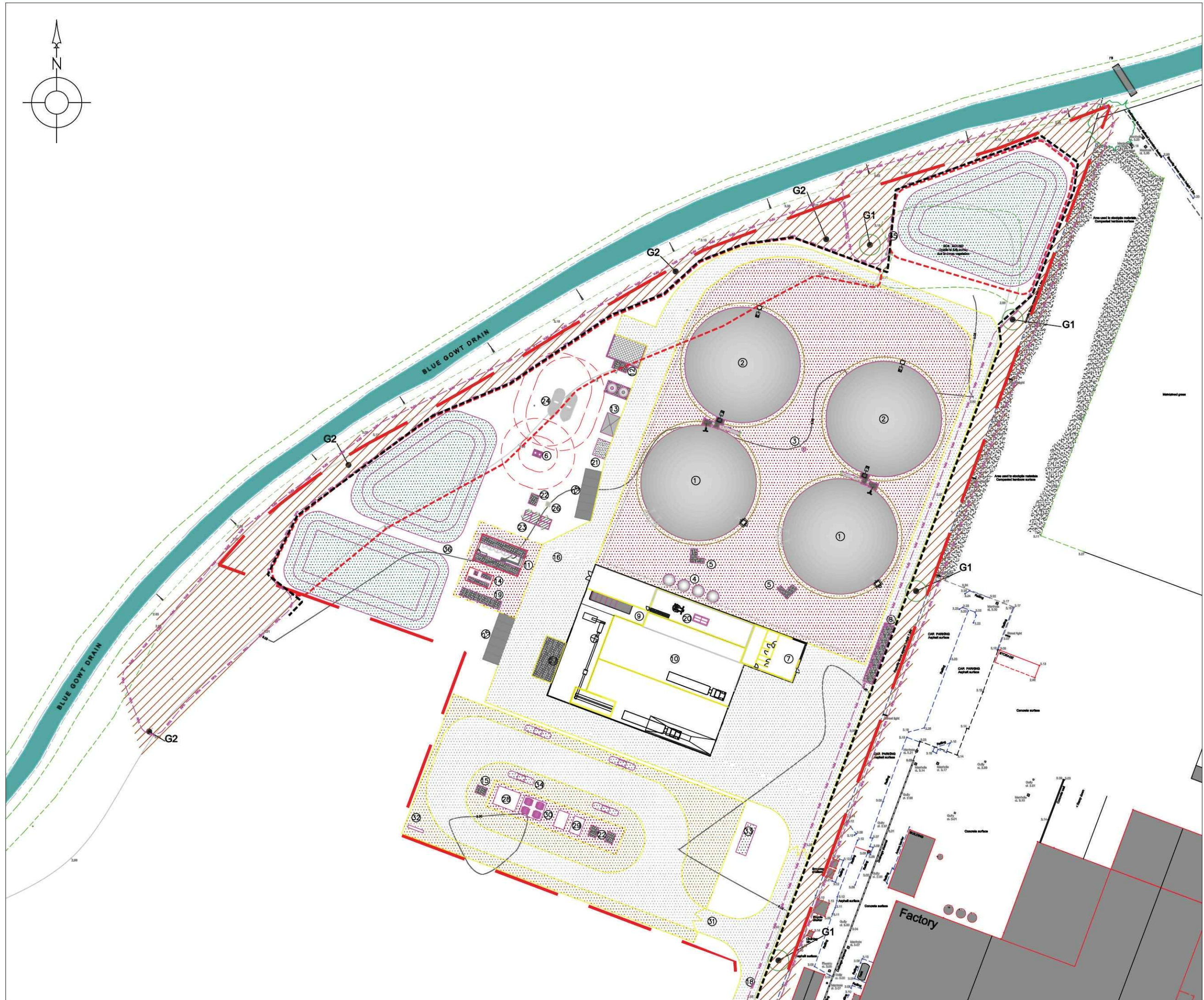
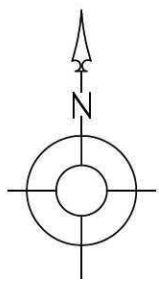
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LEGEND

- Category A trees
- Category B trees
- Category C trees
- Category U trees
- Root Protection Area
- Trees to be removed
- Tree Protective Fencing
- Construction Exclusion Zone
- Permanent ground protection (Cellweb)
- Proposed Layout



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TITLE:
Draft Tree Protection Plan - Plan 1

PROJECT/SITE: Land off of Wardentree Lane, Spalding

CLIENT:
ET Biogas Ventures Ltd

MAP REF:
3881/01/D15-0375

REVISION:
1

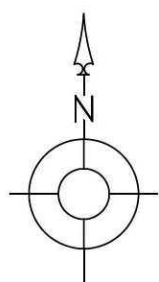
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- LEGEND**
- Category A trees
 - Category B trees
 - Category C trees
 - Category U trees
 - Root Protection Area
 - Trees to be removed
 - Tree Protective Fencing
 - Construction Exclusion Zone
 - Permanent ground protection (Cellweb)
 - Proposed Layout





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TITLE:
Draft Tree Protection Plan - Plan 2

PROJECT/SITE: Land off of Wardentree Lane, Spalding

CLIENT:
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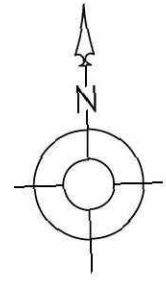
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LEGEND

- Category A trees
- Category B trees
- Category C trees
- Category U trees
- Root Protection Area
- Trees to be removed
- Tree Protective Fencing
- Construction Exclusion Zone
- Permanent ground protection (cellweb)
- Proposed Layout

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TITLE: Draft Tree Protection Overview

PROJECT/SITE: Land off of Ward Lane, Spalding

CLIENT: ET Biogas Ventures Ltd

MAP REF: 3881/01/D15-0375

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