

TREE PROTECTION SCHEME

(ARB. METHOD STATEMENT & TREE PROTECTION PLAN)

CLIENT - Stratera Energy Limited
PROJECT - East Claydon
DOC. REF - P2892-TPS01 V1
PLANNING REF - n/a
CREATION DATE - 12/12/2022

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PURPOSE OF DOCUMENT

This document details the methodology behind the installation of any required tree protection measures, and any demolition and construction activities with the potential to cause harm to the site's trees.

The methods outlined in this document must be implemented as per this document. Failure to do so may result in a breach of planning or significant fines.

ARBORICULTURAL DOCUMENT REGISTER

| Planning Documents | | Version Issued | |
|---------------------------|------------------|-----------------|---------------|
| Document | Ref. | Current Version | Document Date |
| Arb. Impact Assessment | P2892-AIA01 | V1 | 12/12/2022 |
| Arb. Site Plan (Existing) | P2892-ASP01.1-.8 | V1 | 12/12/2022 |
| Arb. Site Plan (Proposed) | P2892-ASP02.1-.8 | V1 | 12/12/2022 |

| Technical Documents | | Version Issued | |
|------------------------|------------------|-----------------|---------------|
| Document | Ref. | Current Version | Document Date |
| Tree Protection Scheme | P2892-TPS01.1-.8 | V1 | 12/12/2022 |

1. GENERAL INFORMATION

1.1. USE OF DOCUMENT

- 1.1.1. This document has been produced to assist key design and construction personnel in ensuring the satisfactory protection of all important trees present within the development site.

1.2. SITE

- 1.2.1. The site discussed within this report is located at:

East Claydon
MK18 3NJ

2. ADMINISTRATIVE DETAILS

2.1. SCOPE OF DOCUMENT

- 2.1.1. This document consists of the following:

- Arboricultural Method Statement

- 2.1.2. Appendices included with this report are:

- Tree Protection Plan (P2892-TPP01.1-.8)
- CEZ Notice
- Schedule of Arboricultural Supervision

2.2. PROJECT CONTACTS

| Role | Name | Telephone | Email |
|---------------------------|-------------------|--------------|--|
| Arboricultural Consultant | Ben Hallinan | 01284 598008 | benjamin@lignaconsultancy.co.uk |
| Arboricultural Consultant | Jennifer Sinclair | 01284 598008 | jennifer@lignaconsultancy.co.uk |

2.3. AUTHOR

- 2.3.1. Jennifer Sinclair is a technician member of the Arboricultural Association. She has worked in arboriculture for over twelve years, including supervisory roles undertaking both domestic and commercial arboricultural work. She possesses a level 3 extended diploma in arboriculture and is currently furthering her academic knowledge by undertaking a level 6 professional diploma in arboriculture. A full CV and list of experience and CPD is available on request.

2.4. SUMMARY OF TERMS

| Term | Definition |
|-------------------------|---|
| Species | The type of tree. |
| Stem | The main woody upright portion of a tree that is supported by the roots and supports the crown. |
| Branch Spread | The length of a tree's branches from stem to tip measured from the north, east, south and western sides of the crown. |
| BS 5837 | The commonly used name for the official guidance document relating to trees and development (<i>BS 5837:2012 - Trees in relation to design, demolition and construction – Recommendations</i>) |
| Canopy / Crown | The branches, leaves, and reproductive structures extending from the trunk or main stems of a tree/trees. |
| DBH | Diameter of a tree's stem, measured as per BS 5837:2012 |
| RPA | The root protection area (RPA) is a layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure is treated as a priority. |
| Facilitation Tree Works | Tree pruning/felling required in order to facilitate the implementation of the proposed development. |
| Tolerance | The relative tolerance the species can show to construction related activities such as root-loss, soil compaction and other development pressures. |
| Category (Cat.) | Categorisation of the tree's value based on the methodology shown in Appendix 1, A1.4. This rating takes into account the size, quality, condition, estimated remaining life expectancy and legal status of each tree. |

2.5. LIMITATIONS

- 2.5.1. Any engineering solutions presented within this document are recommendations for their suitability from an arboricultural viewpoint. The architect and structural engineers should make the final decision on the suitability of the methods advised.
- 2.5.2. Information provided by third parties, considered in the creation of this report, is assumed to be correct.

2.6. COPYRIGHT

- 2.6.1. This report was prepared for use by the Clients and their contractors for planning purposes. The report and its appendices may not be copied, modified, or distributed beyond the necessary parties without the written consent of Ligna Consultancy Ltd

3. RESPONSIBILITIES

3.1. DISTRIBUTION

- 3.1.1. It is important to ensure everyone involved in the planning and design of the proposed development is aware of this report and has access to a copy as soon as it is released.

3.2. RESPONSIBILITIES

- 3.2.1. Successful implementation of tree protection measures and long-term tree retention depends on coordination between the client and key personnel involved in the development.

- 3.2.2. The client and agent shall ensure that:

| |
|---|
| <ul style="list-style-type: none"> The site manager and all other personnel are provided with this document. |
| <ul style="list-style-type: none"> All planning conditions relating to underground works, services, trees, and landscaping are cleared before development commences. |
| <ul style="list-style-type: none"> All requirements of this Tree Protection Plan are adhered to. |
| <ul style="list-style-type: none"> The site manager is updated of any approved changes or variations to this document |

- 3.2.3. The client and site manager shall ensure that:

| |
|---|
| <ul style="list-style-type: none"> A copy of this document with the plan is easily accessible for site personnel to refer to before and during the time construction activity is taking place. |
| <ul style="list-style-type: none"> All personnel working on the site are made aware of the tree protection plan and arboricultural method statements covering any activities they will undertake. This duty includes delegating the task of briefing personnel in the absence of the site manager. |
| <ul style="list-style-type: none"> The tree protection measures are left in place until the construction phase of development is completed, except with the written consent of the LPA. |
| <ul style="list-style-type: none"> Site personnel are updated of any approved changes or variations to the approved tree protection measures. |
| <ul style="list-style-type: none"> All personnel must work in accordance with this document at all times, or in accordance with approved variation. |

3.3. PROCEDURES FOR INCIDENTS

3.3.1. If any breach of the approved tree protection measures occurs the site manager must:

| |
|--|
| <ul style="list-style-type: none"> • The Local Planning Authority Tree officer or other Planning Officer and the Author of this report shall be notified. |
| <ul style="list-style-type: none"> • The site manager must be informed immediately. |
| <ul style="list-style-type: none"> • Swift action must be taken to halt the breach and prevent any further breach. |
| <ul style="list-style-type: none"> • Damage mitigation measures appropriate to the scale of the incident will be deployed where required. |

3.4. PROHIBITED ACTIVITIES

3.4.1. The following must not be carried out under any circumstances:

| |
|---|
| <ul style="list-style-type: none"> • Cutting down, uprooting, damaging or otherwise destroying any retained tree. |
| <ul style="list-style-type: none"> • Lighting a fire within 10 metres of the canopy of any retained tree. |
| <ul style="list-style-type: none"> • Equipment, signage, fencing, tree protection barriers, materials, components, vehicles or structures shall not be attached to or supported by a retained tree. |
| <ul style="list-style-type: none"> • Mixing cement, chemical toilets and other use or storage of anything that would be harmful to trees shall not take place within, or close to a Root Protection Area (RPA). The distance away from the RPA must be sufficient, and the slope of the site must be such that contamination of soil in the RPA would not occur if there were spillage, seepage or displacement. |
| <ul style="list-style-type: none"> • No plant or equipment or vehicle with a hydraulic arm such as a mini digger shall be operated within striking distance of the stem and branches or the RPA of any retained tree unless otherwise specified in this report. |

3.4.2. No alterations or variations shall be made to the approved tree protection measures without written approval from the LPA.

4. PHASING

4.1. PHASING OF DEVELOPMENT

- 4.1.1. The development should be carried out in the following order (see table 1) unless otherwise agreed in writing with the LPA. Each step should be completed before moving onto the next.
- 4.1.2. The general responsibilities described in section 3 of the report must be implemented for the entire time that the site is undergoing development related works. However, the additional precautions detailed in the following arboricultural guidance notes (AGN) must be implemented at the stage indicated below.

| Stage | Arboricultural Guidance Note | Plan |
|---|--|--|
| Facilitative Tree Works | * Works should be undertaken by suitably qualified and insured arborists, in line with 'BS 3998:2010 Tree Work. Recommendations' | Arb Site Plan (Proposed) (P2892-ASP02.1-.8 V1) |
| Pre-Commencement | AGN1 – Installation of Tree Protection Barriers AGN2 – Installation of Roadway Within RPA | Tree Protection Plan (P2892-TPP01.1-.8 V1) |
| Site Clearance & Demolition | | |
| Groundworks & Installation of Foundations | | |
| Construction | | |
| Removal of Tree Protection Measures | * Tree protection measures may be removed | |
| Landscaping | | |

Table 1 – Timing and implementation of specific arboricultural measures

5. TREE WORKS

5.1. TREE WORK REQUIREMENTS

5.1.1. The following tree work should be undertaken following acceptance of planning permission. These works should be undertaken by suitably qualified and insured arborists.

5.1.2. Work specification:

| Tree Ref. | Tree Works |
|-----------|---|
| T41 | Remove |
| T42 | Remove |
| T59 | Crown lift tertiary branches to provide 4.5m clearance with the ground. |
| T63 | Remove |
| T64 | Crown lift tertiary branches to provide 4.5m clearance with the ground. |
| T65 | Crown lift tertiary branches to provide 4.5m clearance with the ground. |
| G10 | Remove |
| H3 | Remove section measuring ~14m in length. |
| H4 | Remove sections totalling ~75m in length. |
| H5 | Remove section measuring 34m in length. |
| H6 | Remove sections totalling ~17m in length. |

Table 2 – Facilitation Tree Works

5.1.3. The location of the trees can be seen on the Arboricultural Site Plan (P2892-ASP02.1-8). Trees selected for removal will be shown with a red canopy fill.

6. ARBORICULTURAL GUIDANCE NOTES

AGN1 – INSTALLATION OF TREE PROTECTION BARRIERS

OUTLINE

Tree protection barriers must be installed so as to ensure that damage does not occur to the rooting areas, stems, and canopies of retained trees.

INSTALLATION METHODOLOGY

- i) The barriers shall be installed and removed in accordance with the timing of operations in section 4.1 and laid out in accordance with the appended Tree Protection Plan.
- ii) The “CEZ Notice” provided, should be used to create weather-proof notices that must be attached to the tree protection barriers at suitable intervals.
- iii) If any panel or support becomes damaged, immediate reinforcement must occur by adding panels in, compliant with the specification detailed below.
- iv) The default heavy-duty tree protection barrier specification is a vertical and horizontal scaffold framework, braced to resist impacts, as per *Figure 1*. The vertical tubes are spaced at a maximum interval of 3 metres and these are driven securely into the ground. Welded mesh panels are securely attached to the frame. During installation, it is important to consider the position of below ground services and structural roots, which must not be damaged. Where these constraints prevent the use of this specification, an alternative specification is given below.
- v) Alternative heavy-duty tree protection barrier design - 2-metre-tall welded mesh panels standing in rubber or concrete feet joined using a minimum of two anti-tamper couplers installed, so they can only be removed from inside the protected area. The fence couplers should be at spaced least 1 metre apart, but uniformly across the whole barrier. These panels must be supported within the protected area with struts attached to a base plate secured by ground pins as per *Figure 2a*.
- vi) Where the fencing is installed above retained hard surfacing and/or it is otherwise not feasible to use ground pins (e.g. due to underlying services or structural roots), the struts can be mounted on a block tray as per *Figure 2b*.
- vii) Arboricultural Sign-off – Following the installation of the barriers, the project’s arboricultural expert must confirm that they have been correctly laid out.

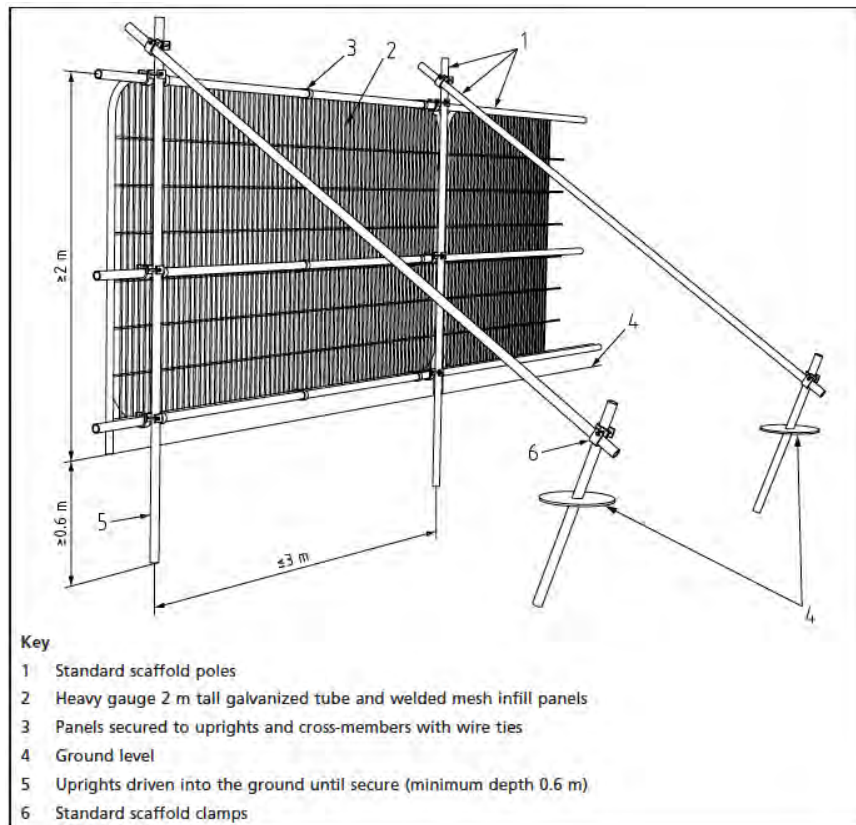


Figure 1 – Conventional tree protection barrier specification (source - BS 5837:2012 Section 6)

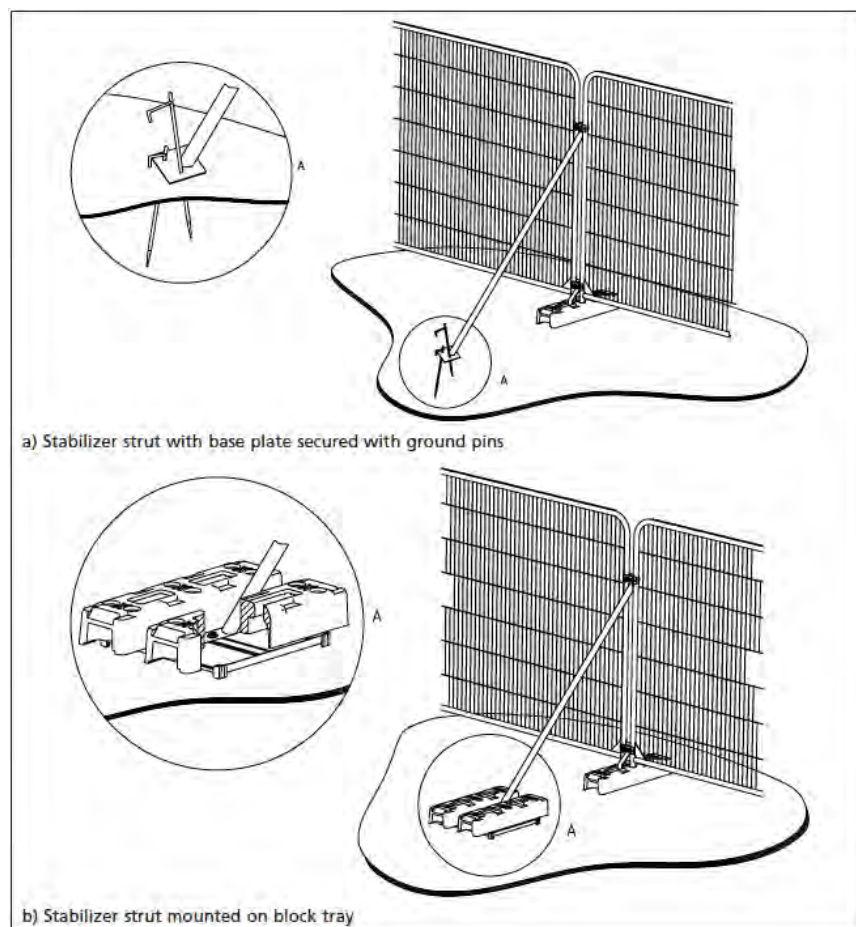


Figure 2 – Above ground stabilising systems (source - BS 5837:2012 Section 6)

AGN2 – INSTALLATION OF ROADWAY WITHIN RPA

OUTLINE

Owing to the positioning of the proposed roadway, the excavations for the subbase will cause a minor incursion of 4% in the RPA of T64. Owing to the small scale of this incursion no specialist methods are deemed necessary.

However, to prevent damage from occurring, the following methodology must be used:

INSTALLATION METHODOLOGY

- i) During the excavations, should any roots >20mm in diameter be discovered, they must be pruned by the projects arboriculturalist.

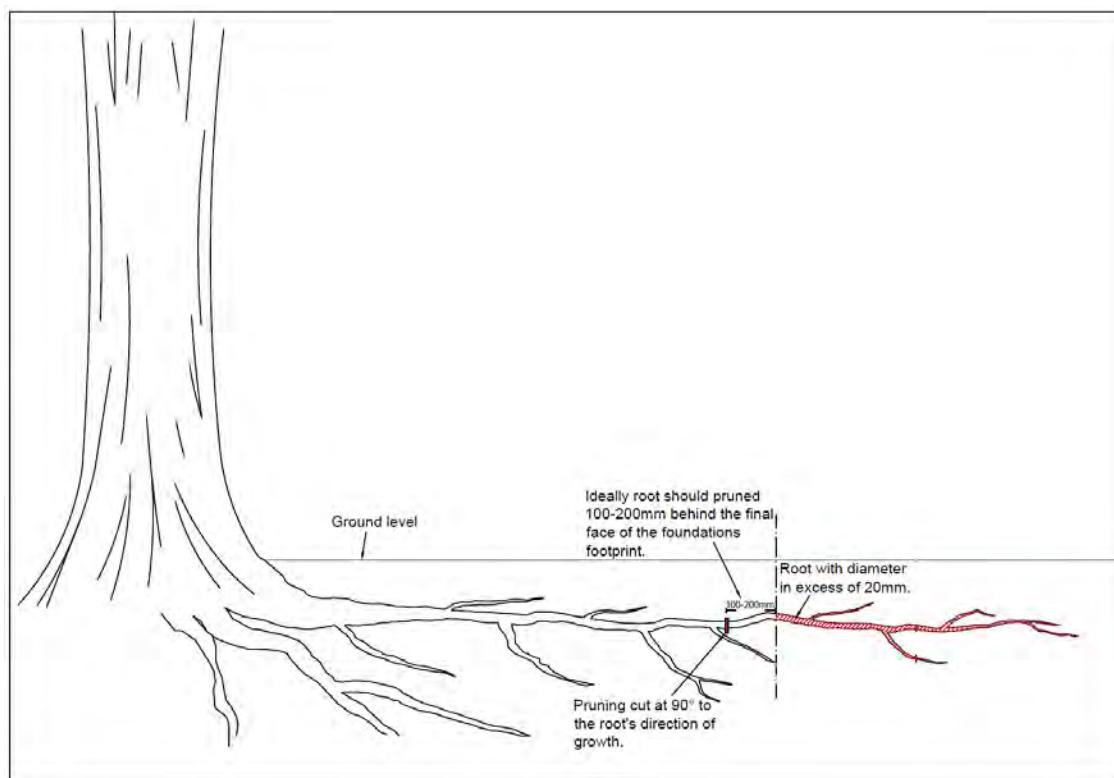


Figure 3 - Root pruning diagram

7. APPENDICES

7.1. APPENDICES

7.1.1. The following appendices should be used in conjunction with this document:

| Appendix | Document | Reference |
|----------|--|---------------------|
| 1 | Tree Protection Plans | P2892-TPP01.1-.8 V1 |
| 2 | CEZ Notice | n/a |
| 3 | Schedule of Arboricultural Supervision | n/a |

APPENDIX 1

TREE PROTECTION PLAN



Use of This Document

This document should be viewed in conjunction with the relevant arboricultural impact assessment and/or tree survey schedule.

Tree Categorisation & Numbering

The method used for categorising the trees can be seen in Appendix 1 of the Tree Survey/Arboricultural Impact Assessment. The categorisation method used is an improved variation of the method suggested in BS 5837:2012.

BS 5837:2012 recommends that better quality trees (Cat. A & B) are retained where possible. Trees in land adjacent to the site are considered where they may be impacted by development.

The trees considered significant within the context of the development are numbered and assigned a prefix of 'T' or 'C' to describe whether they are an individual or a group, and 'S' or 'M' for a shrub or hedge. Using this identification number, further information for each tree/group can be found within the survey schedule.

| | |
|---|---|
| <div>Category A - High or exceptional arboricultural, landscape or ecological value. (Worthy of being a material constraint.)</div> <div>Cat. A</div> | <div>Category B - Moderate arboricultural, landscape or ecological value. (Worthy of being a material constraint.)</div> <div>Cat. B</div> |
| <div>Category C - Low quality or small in size. (Not worthy of being a material constraint.)</div> <div>Cat. C</div> | <div>Category U - Such poor quality or condition that renders it unsuitable for retention. (Not worthy of being a material constraint.)</div> <div>Cat. U</div> |

Root Protection Areas

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPAs) should be plotted around each of the category A, B and C trees. This is a notional depiction of the minimum rooting area in m² which should be left undisturbed around each tree. The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations', unless otherwise stated within the survey schedule.

Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

| | |
|--|--|
| <div>Root Protection Area (RPA) - The notional area around each tree which should be left undisturbed during the development of the site.</div> <div>RPA - Root - 0.5m</div> | <div>RPA Incursion - Anticipated incursion into the root protection area which may result in root loss/damage.</div> |
| <div>Arboricultural Sensitive Demolition/Removal - A structure or surfacing is to be removed using special methods to avoid damage to roots.</div> | <div>Specialist Foundations - Low impact foundations to be used to preserve underlying tree roots.</div> |

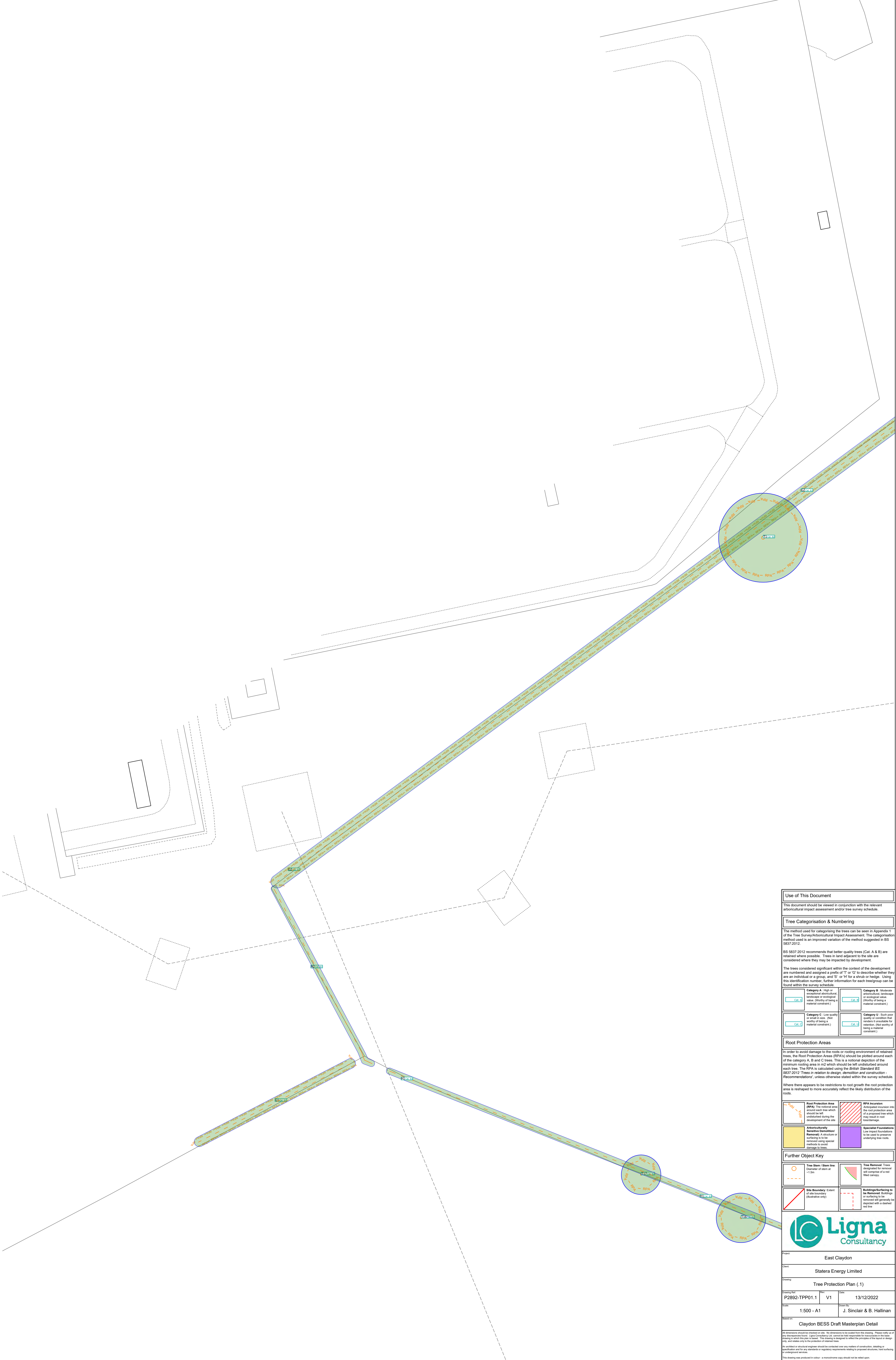
Further Object Key

Tree Stem / Stem line - Diameter of stem at +1.5m

Tree Removal - Trees designated for removal will complete a red filled canopy.

Site Boundary - Extent of site boundary (illustrative only)

Buildings/Surfacing to be removed - Buildings or surfacing to be removed will generally be indicated with a dashed red line.



Use of This Document

This document should be viewed in conjunction with the relevant arboricultural impact assessment and/or tree survey schedule.

Tree Categorisation & Numbering

The method used for categorising the trees can be seen in Appendix 1 of the Tree Survey/Arboricultural Impact Assessment. The categorisation method used is an improved variation of the method suggested in BS 5837:2012.

BS 5837:2012 recommends that better quality trees (Cat. A & B) are retained where possible. Trees in land adjacent to the site are considered where they may be impacted by development.

The trees considered significant within the context of the development are numbered and assigned a prefix of 'T' or 'C' to describe whether they are an individual or a group, and 'S' or 'V' for a shrub or hedge. Using this identification number, further information for each tree/group can be found within the survey schedule.

Category A - High or exceptional aesthetic, landscape or ecological value. (Worthy of being a material constraint.)

Category B - Moderate aesthetic, landscape or ecological value. (Worthy of being a material constraint.)

Category C - Low quality or small in size. (Not worthy of being a material constraint.)

Category U - Such poor quality or condition that renders it unsuitable for retention. (Not worthy of being a material constraint.)

Root Protection Areas

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPAs) should be plotted around each of the category A, B and C trees. This is a notional depiction of the minimum rooting area in m² which should be left undisturbed around each tree. The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations', unless otherwise stated within the survey schedule.

Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

Root Protection Area (RPA) - The notional area around each tree which should be left undisturbed during the development of the site.

RPA Incursion - Anticipated incursion into the root protection area, which may result in root damage.

Arboricultural Sensitive Demolition/Removal - A structure or surfacing is to be removed using special methods to avoid damage to roots.

Specialist Foundations - Low impact foundations to be used to preserve underlying tree roots.

Further Object Key

Tree Stem / Stem line - Diameter of stem at +1.5m

Tree Removal - Trees designated for removal will comprise of a red filled canopy.

Site Boundary - Extent of site boundary (illustrative only)

Buildings/Surfacing to be Removed - Building or surfacing to be removed will generally be indicated with a dashed red line.

Project
East Claydon

Client
Statera Energy Limited

Drawing
Tree Protection Plan (.1)

Drawing Ref
P2892-TPP01.1

V1

Date
13/12/2022

Scale
1:500 - A1

Drawn By
J. Sinclair & B. Hallinan

Based on
Claydon BESS Draft Masterplan Detail

All dimensions should be checked on site. No dimensions to be relied upon for this drawing. Please verify all of any dimensions shown. Ligna Consultancy Ltd cannot be held responsible for inaccuracies in the data shown in which this plan is based. This drawing is designed to reflect the principles of the type of design work, and is not a final design. It is not a final design and is not a final design.

An architect or structural engineer should be contacted over any matters of construction, detailing or specification and for any variations or regulatory requirements relating to proposed structures. Note: any building work should be in accordance with the relevant building regulations.

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Use of This Document

This document should be viewed in conjunction with the relevant arboricultural impact assessment and/or tree survey schedule.

Tree Categorisation & Numbering

The method used for categorising the trees can be seen in Appendix 1 of the Tree Survey/Arboricultural Impact Assessment. The categorisation method used is an improved variation of the method suggested in BS 5837:2012.

BS 5837:2012 recommends that better quality trees (Cat. A & B) are retained where possible. Trees in land adjacent to the site are considered where they may be impacted by development.

The trees considered significant within the context of the development are numbered and assigned a prefix of 'T' or 'C' to describe whether they are an individual or a group, and 'S' or 'M' for a shrub or hedge. Using this identification number, further information for each tree/group can be found within the survey schedule.

| | |
|---|---|
| <div>Cat. A</div> <div>Category A - High or important structural, landscape or ecological value. (Worthy of being a material constraint.)</div> | <div>Cat. B</div> <div>Category B - Moderate structural, landscape or ecological value. (Worthy of being a material constraint.)</div> |
| <div>Cat. C</div> <div>Category C - Low quality or small in size. (Not worthy of being a material constraint.)</div> | <div>Cat. U</div> <div>Category U - Such poor quality or condition that renders it unsuitable for retention. (Not worthy of being a material constraint.)</div> |

Root Protection Areas


In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPAs) should be plotted around each of the category A, B and C trees. This is a notional depiction of the minimum rooting area in m² which should be left undisturbed around each tree. The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations', unless otherwise stated within the survey schedule.

Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

| | |
|--|---|
| <div>RPA</div> <div>Root Protection Area (RPA): The notional area around each tree which should be left undisturbed during the development of the site.</div> | <div>RPA Incursion</div> <div>Anticipated incursion into the root protection area may result in root loss/damage.</div> |
| <div>Arboriculture Sensitive Demolition/Removal</div> <div>Arboriculture Sensitive Demolition/Removal: A structure or surfacing is to be removed using special methods to avoid damage to roots.</div> | <div>Specialist Foundations</div> <div>Specialist Foundations: Low impact foundations to be used to preserve underlying tree roots.</div> |

Further Object Key

| | |
|--|---|
| <div>Tree Stem / Stem line</div> <div>Diagram of stem at 1.5m</div> | <div>Tree Removal</div> <div>Trees designated for removal will complete a red filled canopy.</div> |
| <div>Site Boundary - Extent</div> <div>(Site boundary) (Illustrative only)</div> | <div>Buildings/Surfacing to be Removed</div> <div>Buildings/Surfacing to be removed will generally be indicated with a dashed red line.</div> |

Ligna Consultancy

Project: East Claydon

Client: Statera Energy Limited

Drawing: Tree Protection Plan (2)

Drawing Ref: P2892-TFP01.2

V1

Date: 13/12/2022

Scale: 1:500 - A1

Drawn By: J. Sinclair & B. Hallinan

Based on: Claydon BESS Draft Masterplan Detail

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Flood Zone

Footbridge

Path (um)

Pond

Substation

Use of This Document

This document should be viewed in conjunction with the relevant arboricultural impact assessment and/or tree survey schedule.

Tree Categorisation & Numbering

The method used for categorising the trees can be seen in Appendix 1 of the Tree Survey/Arboricultural Impact Assessment. The categorisation method used is an improved variation of the method suggested in BS 5837:2012.

BS 5837:2012 recommends that better quality trees (Cat. A & B) are retained where possible. Trees in land adjacent to the site are considered where they may be impacted by development.

The trees considered significant within the context of the development are numbered and assigned a prefix of 'T' or 'C' to describe whether they are an individual or a group, and 'S' or 'H' for a shrub or hedge. Using this identification number, further information for each tree/group can be found within the survey schedule.

| | |
|---|---|
| Category A: High or exceptional architectural, landscape or ecological value. (Priority of being a material constraint.) | Category B: Moderate architectural, landscape or ecological value. (Priority of being a material constraint.) |
| Category C: Low quality or small in size. (Not worthy of being a material constraint.) | Category U: Bushy or scrubby vegetation that renders it unsuitable for retention. (Not worthy of being a material constraint.) |

Root Protection Areas

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPAs) should be plotted around each of the category A, B and C trees. This is a notional depiction of the minimum rooting area in m² which should be left undisturbed around each tree. The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations', unless otherwise stated within the survey schedule.

Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

| | |
|--|---|
| Root Protection Area (RPA): The notional area around each tree which should be left undisturbed during the development of the site. | RPA Incursion: An incursion into the root protection area of a protected tree which may result in root damage. |
| Arboriculturally Sensitive Demolition/Removal: A structure or surfacing to be removed using special methods to avoid damage to trees. | Specialist Foundations: Low impact foundations to be used to prevent underlying tree roots. |

Further Object Key

| | |
|--|---|
| Tree Stem / Stem Line: Diameter of stem at >1.5m. | Tree Removal: Trees designated for removal will consist of a red filled canopy. |
| Site Boundary: Extent of site boundary (illustrative only). | Buildings/Surfacing to be Retained: Building or surfacing to be retained will generally be shown with a dashed red line. |



East Claydon

Statera Energy Limited

Tree Protection Plan (.3)

Drawing Ref: P2892-TPP01.3

Scale: 1:500 - A1

Date: 13/12/2022

Drawn By: J. Sinclair & B. Hallinan

Based on: Claydon BESS Draft Masterplan Detail

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An architect or structural engineer should be consulted over any matters of construction, detailing or specification and for any structural or regulatory requirements relating to proposed structures. Notwithstanding to the above, the drawing is produced in colour. A monochrome copy should not be relied upon.

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Woodland Screen Planting

ation

576

Use of This Document

This document should be viewed in conjunction with the relevant arboricultural impact assessment and/or tree survey schedule.

Tree Categorisation & Numbering

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BS 5837:2012 recommends that better quality trees (Cat. A & B) are retained where possible. Trees in land adjacent to the site are considered where they may be impacted by development.

The trees considered significant within the context of the development are numbered and assigned a prefix of 'T' or 'C' to describe whether they are an individual or a group, and 'S' or 'M' for a shrub or hedge. Using this identification number, further information for each tree/group can be found within the survey schedule.

| | |
|---|---|
| <div>Cat. A</div> <div>Category A - High or exceptional arboricultural, landscape or ecological value. (Worthy of being a material constraint.)</div> | <div>Cat. B</div> <div>Category B - Moderate arboricultural, landscape or ecological value. (Worthy of being a material constraint.)</div> |
| <div>Cat. C</div> <div>Category C - Low quality or small in size. (Not worthy of being a material constraint.)</div> | <div>Cat. U</div> <div>Category U - Such poor quality or condition that renders it unsuitable for retention. (Not worthy of being a material constraint.)</div> |

Root Protection Areas

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPAs) should be plotted around each of the category A, B and C trees. This is a notional depiction of the minimum rooting area in m² which should be left undisturbed around each tree. The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations', unless otherwise stated within the survey schedule.

Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

| | |
|--|--|
| <div>Root Protection Area (RPA)</div> <div>The notional area around each tree which should be left undisturbed during the development of the site.</div> | <div>RPA Incursion</div> <div>Anticipated incursion into the root protection area which may result in root damage.</div> |
| <div>Arboricultural Remedial/Restoration</div> <div>A structure or surfacing is to be removed using special methods to avoid damage to roots.</div> | <div>Specialist Foundations</div> <div>Low impact foundations to be used to preserve underlying tree roots.</div> |

Further Object Key

| | |
|---|--|
| <div>Tree Stem / Stem Line</div> <div>Diameter of stem at +1.5m</div> | <div>Tree Removal</div> <div>Trees designated for removal will comprise of a red filled canopy.</div> |
| <div>Site Boundary - Extent</div> <div>(Illustrative only)</div> | <div>Buildings/Surfacing to be removed</div> <div>Buildings or surfacing to be removed will generally be indicated with a dashed red line.</div> |

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Consultancy

Project

East Clayton

Client

Statera Energy Limited

Drawing

Tree Protection Plan (4)

Drawing Ref

P2892-TPP01.4

V1

Date

13/12/2022

Scale

1:500 - A1

Drawn By

J. Sinclair & B. Hallinan

Based on

Claydon BESS Draft Masterplan Detail

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Allow RPA encroachment if 4% for T54. Due to the small size of the canopy and the proximity of the tree to the site boundary, any long-term impact on the health or safety of the tree is considered to be low. However, to avoid damage is not done to the tree or its rooting area, the RPA should be maintained.

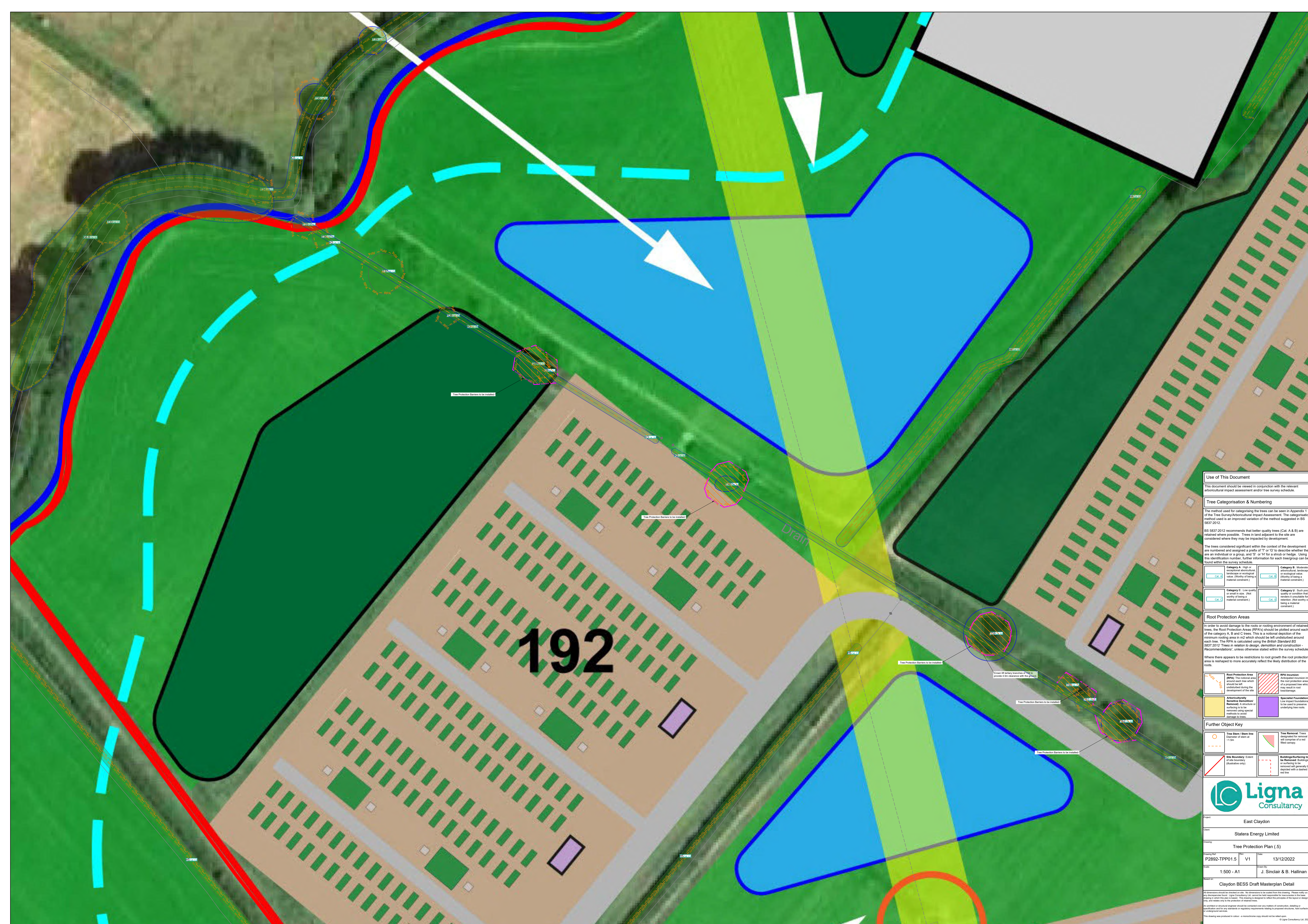
Prior to any construction works being undertaken, tree protection barriers and temporary ground protection matting must be installed.

If any machinery required must operate adjacent to the RPA or from above temporary ground protection matting. The use of the machinery must take the surrounding tree canopy into consideration.

During the excavation of the sub-base, should any roots be exposed, the roots should be protected. The roots must be protected and the face of the sub-base with purpose made supports.

To prevent chemical cement leachate from poisoning surrounding tree roots, prior to the pouring of concrete, an impermeable membrane must be installed.

Crown IR battery branches of T54 and T55 to provide 4m clearance with the ground.



Use of This Document

This document should be viewed in conjunction with the relevant arboricultural impact assessment and/or tree survey schedule.

Tree Categorisation & Numbering

The method used for categorising the trees can be seen in Appendix 1 of the Tree Survey/Arboricultural Impact Assessment. The categorisation method used is an improved variation of the method suggested in BS 5837:2012.

BS 5837:2012 recommends that better quality trees (Cat. A & B) are retained where possible. Trees in land adjacent to the site are considered where they may be impacted by development.





The trees considered significant within the context of the development are numbered and assigned a prefix of 'T' or 'G' to describe whether they are an individual or a group, and 'S' or 'H' for a shrub or hedge. Using this identification number, further information for each tree/group can be found within the survey schedule.

| | |
|---|--|
| <p>Category A: High or exceptional abiotic/abiotic, landscape or ecological value. (Worthy of being a material constraint.)</p> <p>Cat. A</p> | <p>Category B: Moderate abiotic/abiotic, landscape or ecological value. (Worthy of being a material constraint.)</p> <p>Cat. B</p> |
| <p>Category C: Low quality or small in size. (Not worthy of being a material constraint.)</p> <p>Cat. C</p> | <p>Category U: Such poor quality or condition that renders it unsuitable for retention. (Not worthy of being a material constraint.)</p> <p>Cat. U</p> |





Root Protection Areas

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPA's) should be plotted around each of the category A, B and C trees. This is a notional depiction of the minimum rooting area in m² which should be left undisturbed around each tree. The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations', unless otherwise stated within the survey schedule.

Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

| | | | |
|---|---|---|--|
|  | Root Protection Area (RPA): The notional area around each tree which should be left undisturbed during the development of the site |  | RPA Incursion: Anticipated incursion in the root protection area of a proposed tree which may result in root loss/damage. |
|  | Arboriculturally Sensitive Demolition/Removal: A structure or surfacing is to be removed using special |  | Specialist Foundations: Low impact foundations to be used to preserve undisturbed tree roots |

| |
|--------------------|
| Further Object Key |
|--------------------|

| | | | |
|---|--|---|---|
|  | <p>Tree Stem / Stem line: Diameter of stem at ~1.5m</p> |  | <p>Tree Removal: Trees designated for removal will comprise of a red filled canopy.</p> |
|  | <p>Site Boundary: Extent of site boundary (illustrative only)</p> |  | <p>Buildings/Surfacing to be Removed: Buildings or surfacing to be removed will generally be depicted with a dashed red line</p> |



Project: East Claydon

Client: **Statera Energy Limited**

Drawing: Tree Protection Plan (.5

| | | |
|---------------|------|------------|
| Drawing Ref: | Rev: | Date: |
| P2892-TPP01.5 | V1 | 13/12/2022 |

| | |
|------------|---------------------------|
| Scale: | Drawn By: |
| 1:500 = A1 | J. Sinclair & B. Hallinan |

Based on: Claydon BESS Draft Masterplan Detail

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This drawing was produced in colour - a monochrome copy should not be relied upon.

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Use of This Document





This document should be viewed in conjunction with the relevant arboricultural impact assessment and/or tree survey schedule.

Tree Categorisation & Numbering

The method used for categorising the trees can be seen in Appendix 1 of the Tree Survey/Arboricultural Impact Assessment. The categorisation method used is an improved variation of the method suggested in BS 5837:2012.

BS 5837:2012 recommends that better quality trees (Cat. A & B) are retained where possible. Trees in land adjacent to the site are considered where they may be impacted by development.





The trees considered significant within the context of the development are numbered and assigned a prefix of 'T' or 'S' to describe whether they are an individual or a group, and 'S' or 'H' for a shrub or hedge. Using this identification number, further information for each tree/group can be found within the survey schedule.

| | | | |
|--|---|--|--|
|  Cat. A | Category A: High or exceptional arboricultural, landscape or ecological value. (Worthy of being a material constraint.) |  Cat. B | Category B: Moderate arboricultural, landscape or ecological value. (Worthy of being a material constraint.) |
|  Cat. C | Category C: Low quality or small in size. (Not worthy of being a material constraint.) |  Cat. U | Category U: (Such poor quality or condition that retention is unsuitable for retention. (Not worthy of being a material constraint.) |





Root Protection Areas

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPAs) should be plotted around each of the category A, B and C trees. This is a notional depiction of the minimum rooting area in m² which should be left undisturbed around each tree. The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations', unless otherwise stated within the survey schedule.

Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

| | | | |
|---|---|--|--|
|  RPA | Root Protection Area (RPA): The notional area around each tree which should be left undisturbed during the development of the site. |  RPA Incursion | Any incursion into the root protection area of a protected tree which may result in root damage. |
|  Arboricultural Remedial | Arboricultural Remedial: A structure or surfacing to be removed using special methods to avoid damage to trees. |  Specialist Foundations | Low impact foundations to be used to prevent underlying tree roots. |

Further Object Key

| | | | |
|---|--|--|--|
|  Tree Stem / Stem line | Tree Stem / Stem line: Diameter of stem at +1.5m. |  Tree Removal | Trees designated for removal will comprise of a red filled canopy. |
|  Site Boundary | Site Boundary: Extent of site boundary (hatched only). |  Buildings/Surfacing to be Retained | Building or surfacing to be retained will generally be shown with a dashed red line. |



| | | | |
|-------------|--------------------------------------|-----|----|
| Project | East Claydon | | |
| Client | Statera Energy Limited | | |
| Drawing | Tree Protection Plan (6) | | |
| Drawing Ref | P2892-TPP01.6 | Rev | V1 |
| Date | 13/12/2022 | | |
| Scale | 1:500 - A1 | | |
| Drawn By | J. Sinclair & B. Hallinan | | |
| Based on | Claydon BESS Draft Masterplan Detail | | |

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1:32 House
1:4 inverter

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Public Footpath

Pond

Use of This Document

This document should be viewed in conjunction with the relevant arboricultural impact assessment and/or tree survey schedule.

Tree Categorisation & Numbering

The method used for categorising the trees can be seen in Appendix 1 of the Tree Survey/Arboricultural Impact Assessment. The categorisation method used is an improved variation of the method suggested in BS 5837:2012.

BS 5837:2012 recommends that better quality trees (Cat. A & B) are retained where possible. Trees in land adjacent to the site are considered where they may be impacted by development.

The trees considered significant within the context of the development are numbered and assigned a prefix of 'T' or 'S' to describe whether they are an individual or a group, and 'S' or 'H' for a shrub or hedge. Using this identification number, further information for each tree/group can be found within the survey schedule.

Cat. A

Category A: High or exceptional arboricultural, landscape or ecological value. (Priority of being a material constraint.)

Cat. B

Category B: Moderate arboricultural, landscape or ecological value. (Priority of being a material constraint.)

Cat. C

Category C: Low quality or small in size. (Not worthy of being a material constraint.)

Cat. U

Category U: Such poor health or condition that retention is unsuitable for retention. (Not worthy of being a material constraint.)

Root Protection Areas

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPAs) should be plotted around each of the category A, B and C trees. This is a notional depiction of the minimum rooting area in m² which should be left undisturbed around each tree. The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations', unless otherwise stated within the survey schedule.

Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

Root Protection Area (RPA)

The notional area around each tree which should be left undisturbed during the development of the site.

RPA Incursion

Any proposed structure into the root protection area of a retained tree which may result in root damage.

Arboricultural Sensitive Demolition/Removal

A structure or surfacing to be removed using special methods to avoid damage to roots.

Specialist Foundations

Low impact foundations to be used to prevent underlying tree roots.

Further Object Key

Tree Stem / Stem Line

Diameter of stem at +1.5m

Tree Removal

Trees designated for removal will comprise of a red filled canopy.

Site Boundary

Extent of site boundary (hatched only)

Buildings/Surfacing to be Retained

Building or surfacing to be retained will generally be shown with a dashed red line.

Ligna Consultancy

Project

East Claydon

Client

Statera Energy Limited

Drawing

Tree Protection Plan (.7)

Drawing Ref

P2892-TPP01.7

V1

Date

13/12/2022

Scale

1:500 - A1

Drawn By

J. Sinclair & B. Hallinan

Based on

Claydon BESS Draft Masterplan Detail

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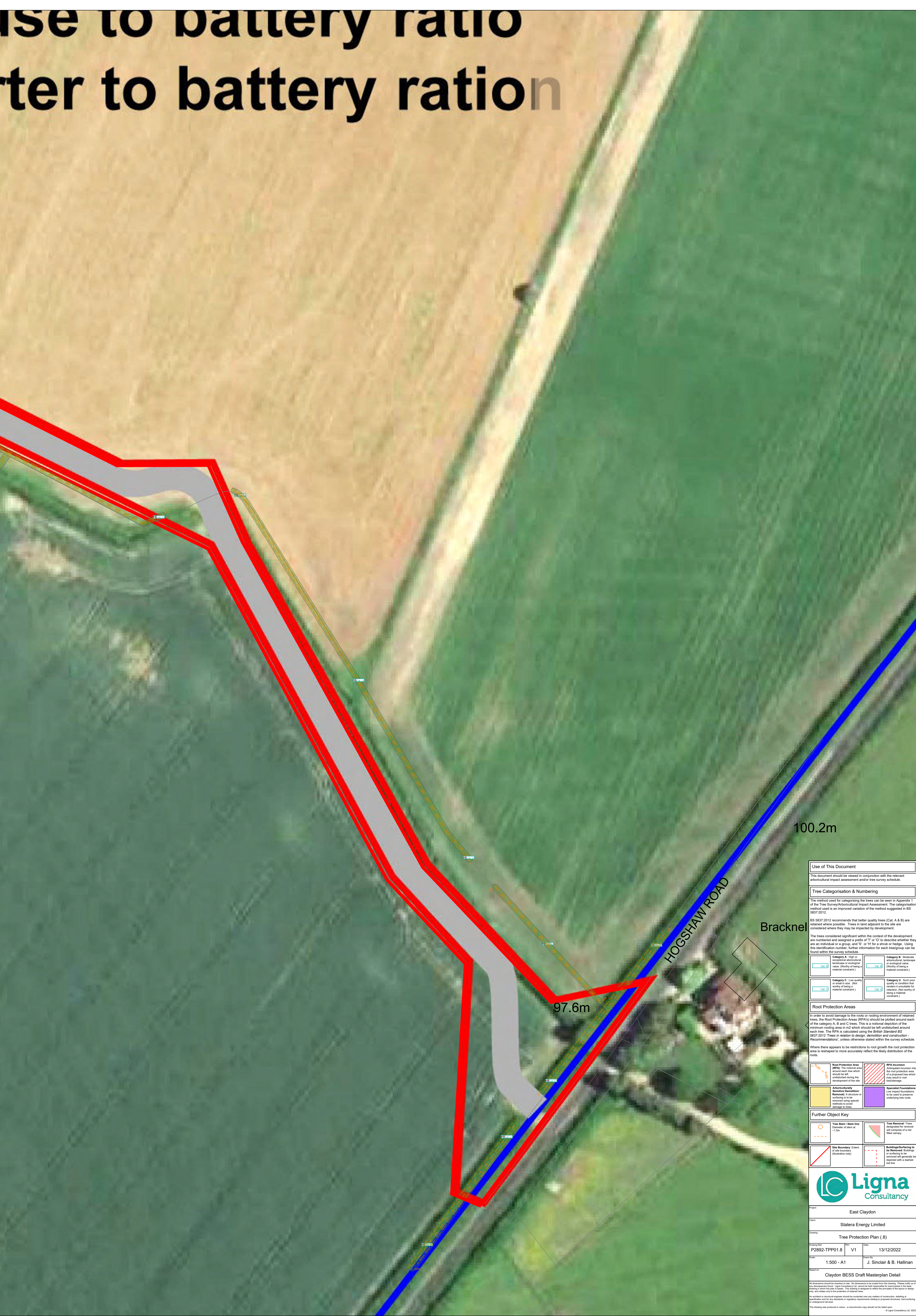
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Use of This Document

This document should be viewed in conjunction with the relevant arboricultural impact assessment and/or tree survey schedule.

Tree Categorisation & Numbering

The method used for categorising the trees can be seen in Appendix 1 of the Tree Survey/Arboricultural Impact Assessment. The categorisation method used is an improved variation of the method suggested in BS 5837:2012.

BS 5837:2012 recommends that better quality trees (Cat. A & B) are retained where possible. Trees in land adjacent to the site are considered where they may be impacted by development.

The trees considered significant within the context of the development are numbered and assigned a prefix of 'T' or 'G' to describe whether they are an individual or a group, and 'S' or 'M' for a shrub or hedge. Using this identification number, further information for each tree/group can be found within the survey schedule.

| | |
|---|---|
| <div>Category A - High or exceptional arboricultural, landscape or ecological value. (Worthy of being a material constraint.)</div> <div>Cat. A</div> | <div>Category B - Moderate arboricultural, landscape or ecological value. (Worthy of being a material constraint.)</div> <div>Cat. B</div> |
| <div>Category C - Low quality or small in size. (Not worthy of being a material constraint.)</div> <div>Cat. C</div> | <div>Category U - Such poor quality or condition that renders it unsuitable for retention. (Not worthy of being a material constraint.)</div> <div>Cat. U</div> |

Root Protection Areas

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPAs) should be plotted around each of the category A, B and C trees. This is a notional depiction of the minimum rooting area in m² which should be left undisturbed around each tree. The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations', unless otherwise stated within the survey schedule.

Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

| | |
|--|--|
| <div>Root Protection Area (RPA). The notional area around each tree which should be left undisturbed during the development of the site.</div> <div>RPA - Cat. A - B - C</div> | <div>RPA Incursion. Anticipated incursion into the root protection area of a protected tree which may result in root damage.</div> |
| <div>Arboricultural Sensitive Demolition/Removal. A structure or surfacing is to be removed using special methods to avoid damage to roots.</div> | <div>Specialist Foundations. Low impact foundations to be used to preserve underlying tree roots.</div> |

Further Object Key

| | |
|---|--|
| <div>Tree Stem / Stem Line. Diameter of stem at +1.5m.</div> <div>Tree Stem / Stem Line</div> | <div>Tree Removal. Trees designated for removal will comprise of a red filled canopy.</div> |
| <div>Site Boundary. Extent of site boundary (illustrative only).</div> <div>Site Boundary</div> | <div>Buildings/Surfacing to be Removed. Buildings or surfacing to be removed will generally be indicated with a dashed red line.</div> |

Ligna
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Project

East Claydon

Client

Statera Energy Limited

Drawing

Tree Protection Plan (.8)

Drawing Ref

P2892-TPP01.8

Version

V1

Date

13/12/2022

Scale

1:500 - A1

Drawn By

J. Sinclair & B. Hallinan

Based on

Claydon BESS Draft Masterplan Detail

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APPENDIX 2 CEZ NOTICE

NO ENTRY



CONSTRUCTION EXCLUSION ZONE

This area contains trees which must be protected as part of the planning permission. Additional legal protection may also apply e.g. a Tree Preservation Order.

Removing or damaging trees in this area may be a breach in planning permission. Damage to protected trees may lead to a criminal conviction and / or a fine.

Should any issues arrive regarding the tree protection or its layout, please contact Ligna Consultancy Ltd for advice:

info@lignaconsultancy.co.uk
01284 598008

APPENDIX 3

SCHEDULE OF SUPERVISION

APPENDIX 3 – SCHEDULE OF ARBORICULTURAL SUPERVISION

Date:

Planning Ref:

This statement is to confirm that of has undertaken the following supervision activities for the development at East Claydon; ensuring that any deviation from the approved tree protection scheme is recorded and appropriate action is undertaken.

Liability for any failure of compliance will remain with the client.

Arboricultural Sign-Off

The correct installation of the approved tree protection measures must be confirmed by the project's arboriculturalist in the table below. No further demolition or construction activities may occur until approval has been given by the project's arboriculturalist.

Failure to abide by the following schedule may result in a breach of planning. Any deviation from the agreed upon protection measures must be reported to the project arboriculturalist immediately.

| Activity | Remote Supervision | Date | Protection Measures Compliant | Remedial Action Required |
|---|--------------------|------|-------------------------------|--------------------------|
| Pre-commencement site meeting | Yes | | | |
| Sign-off of correct installation of tree protection measures (pre-construction) | No | | | |

Note – Remote video call or photographic supervision may be suitable in some instances. Where this is suitable, 'Yes' will be displayed in the 'Remote Supervision' column in the table above.



W. www.lignaconsultancy.co.uk
E. info@lignaconsultancy.co.uk
T. 01284 598008

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