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# FENWICK SOLAR FARM

**Fenwick Solar Farm**  
**EN010152**

**Fenwick Solar Farm**

**Volume III Appendix 10-7: Arboricultural Impact Assessment Part 2 of 2**

**Document Reference: EN010152/APP/6.3**

Regulation 5(2)(a)

Infrastructure Planning (Applications: Prescribed Forms and Procedure)  
Regulations 2009

October 2024  
Revision Number: 00

## Revision History

<b>Revision Number</b>	<b>Date</b>	<b>Details</b>
00	October 2024	DCO application

Prepared for:  
Fenwick Solar Project Limited

Prepared by:  
AECOM Limited

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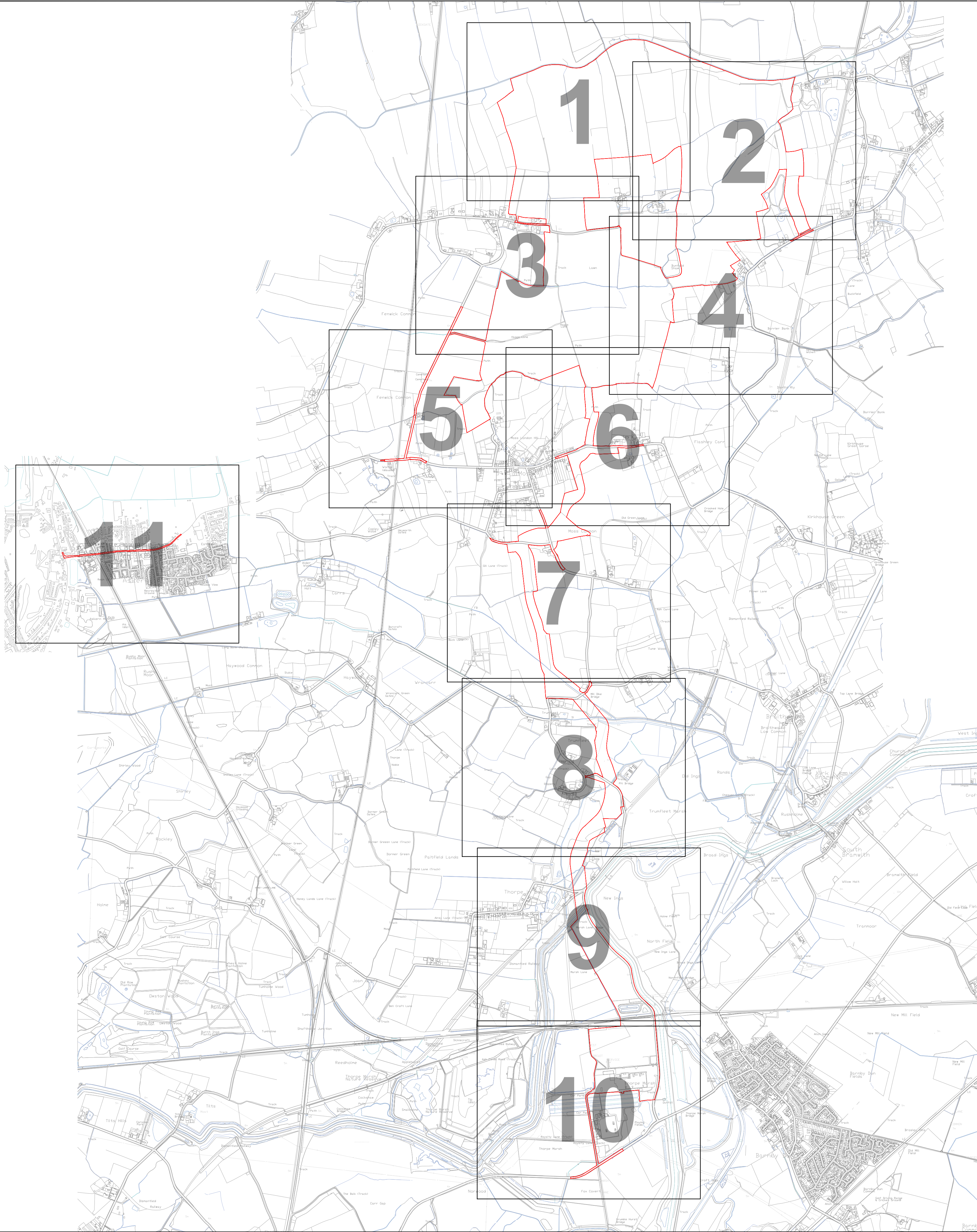


# Annex C Tree Protection Plan



**PROPOSALS KEY**

- Deer Fencing
- 400kV Substation Pallisade Fencing
- PV Developable Area
- 400kV Substation Area
- Temporary Construction Compound
- Field Substations
- BESS Fire Service Access Tracks
- Export Cable Route
- 33kV Field Substation Cable Route
- Drill Shot Locations
- Drainage
- Hedge Removal Areas
- Gapping-Up & Screening Areas
- Redirected Public Rights of Way
- Historic / Priority Hedgerows
- Visibility Splays



**PROJECT**  
FENWICK SOLAR FARM

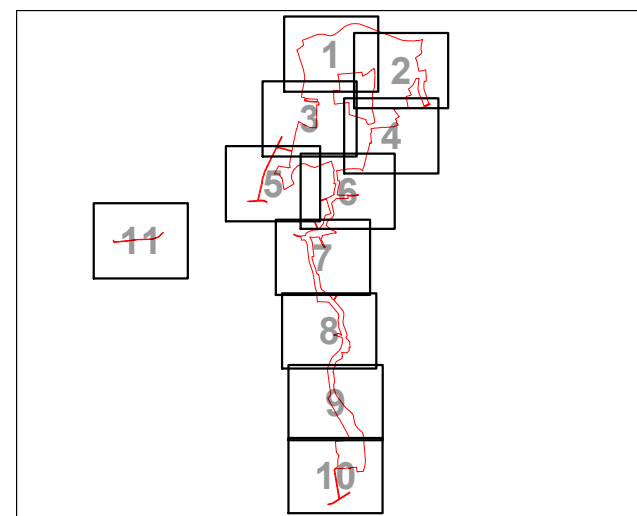
**CLIENT**  
FENWICK SOLAR PROJECT LIMITED  
CONSULTANT

**AECOM**  
Plumer House, Third Floor,  
East Wing, Tallyour Road  
Plymouth, PL6 5DH  
Tel +44(0)1752 676700  
Fax +44(0)870 238 6023  
www.aecom.com

**GENERAL NOTES**

1. TREE CATEGORIES AS DEFINED BY BS 5837:2012
2. TREE LOCATIONS ARE BASED ON AERIAL IMAGERY, AND GPS CO-ORDINATES FROM ON SITE WALKOVER.
3. PLANS SHOULD BE READ IN CONJUNCTION WITH THE AECOM ARBORICULTURAL REPORT.
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FENW-Overall-Layout-v4.5.1\_Simp3.dwg

**KEY PLAN**



**KEY**

- SITE BOUNDARY
- EXISTING TREE, GROUP, WOODLAND, OR HEDGE TO BE RETAINED
- EXISTING TREE, GROUP, WOODLAND, OR HEDGE TO BE REMOVED
- ROOT PROTECTION AREA OF RETAINED TREES (AS DEFINED BY BS 5837:2012)
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- PRIORITY HABITAT (CONSIDERED AN AREA OF PRIORITY HABITAT)

**ISSUE/REVISION**

IR	DATE	DESCRIPTION
P01	16.08.24	FIRST ISSUE

**DRAWING STATUS**

ISSUE

**PROJECT NUMBER**

60698207

**SHEET TITLE**

TREE PROTECTION PLAN (SHEET 00)

**SHEET NUMBER**

60698207-ACM-XX-XX-AB-TPP-000

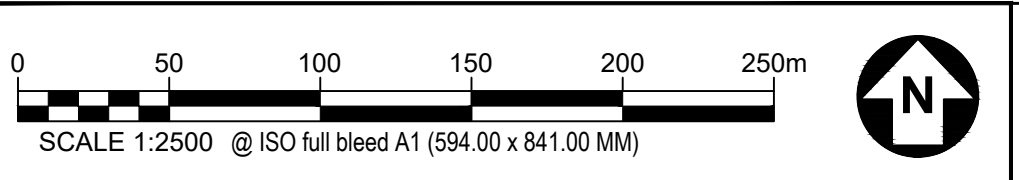
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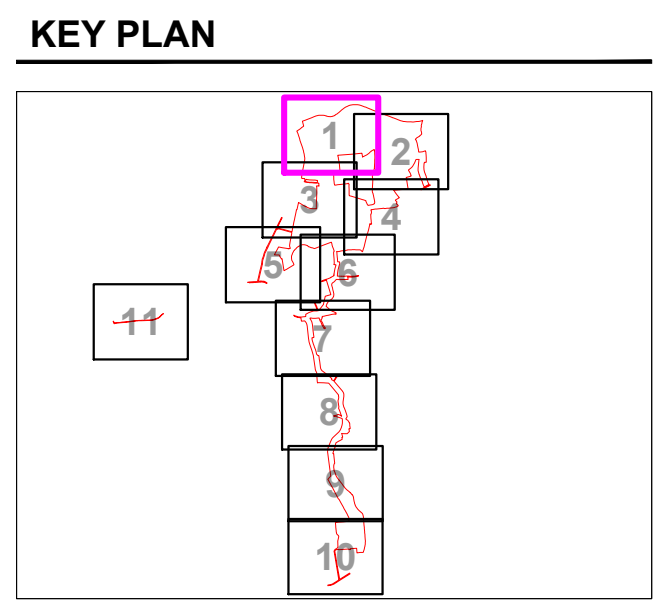
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**PROJECT NUMBER**  
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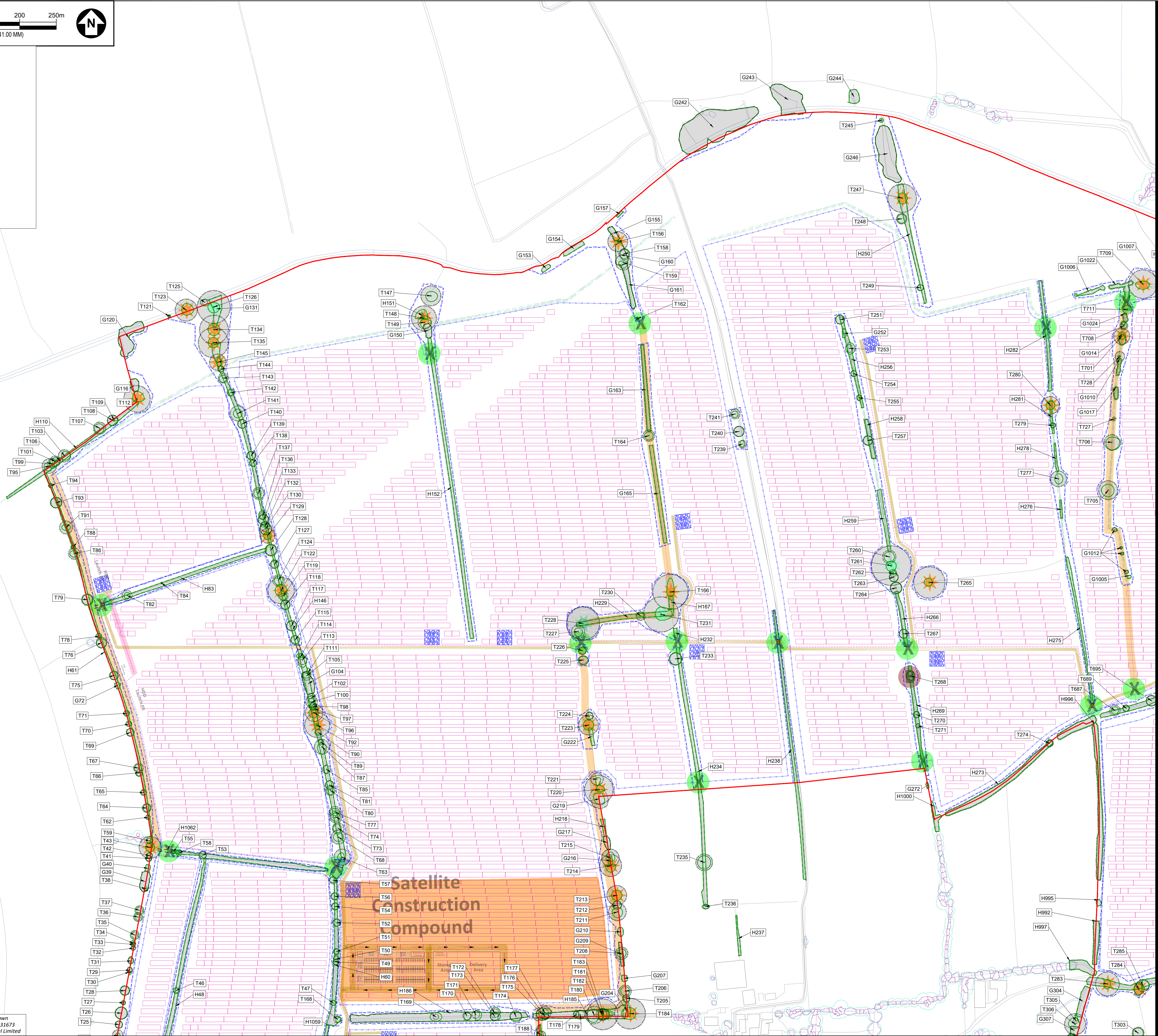
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TREE PROTECTION PLAN  
(SHEET 1)

**SHEET NUMBER**      **REV.**

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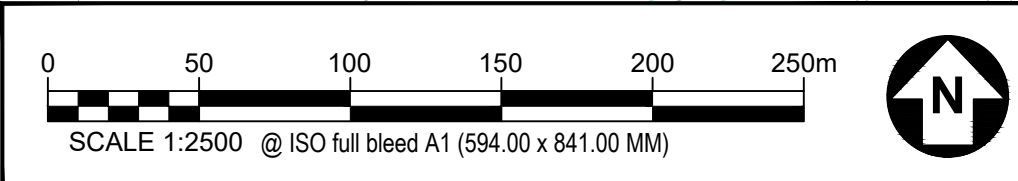
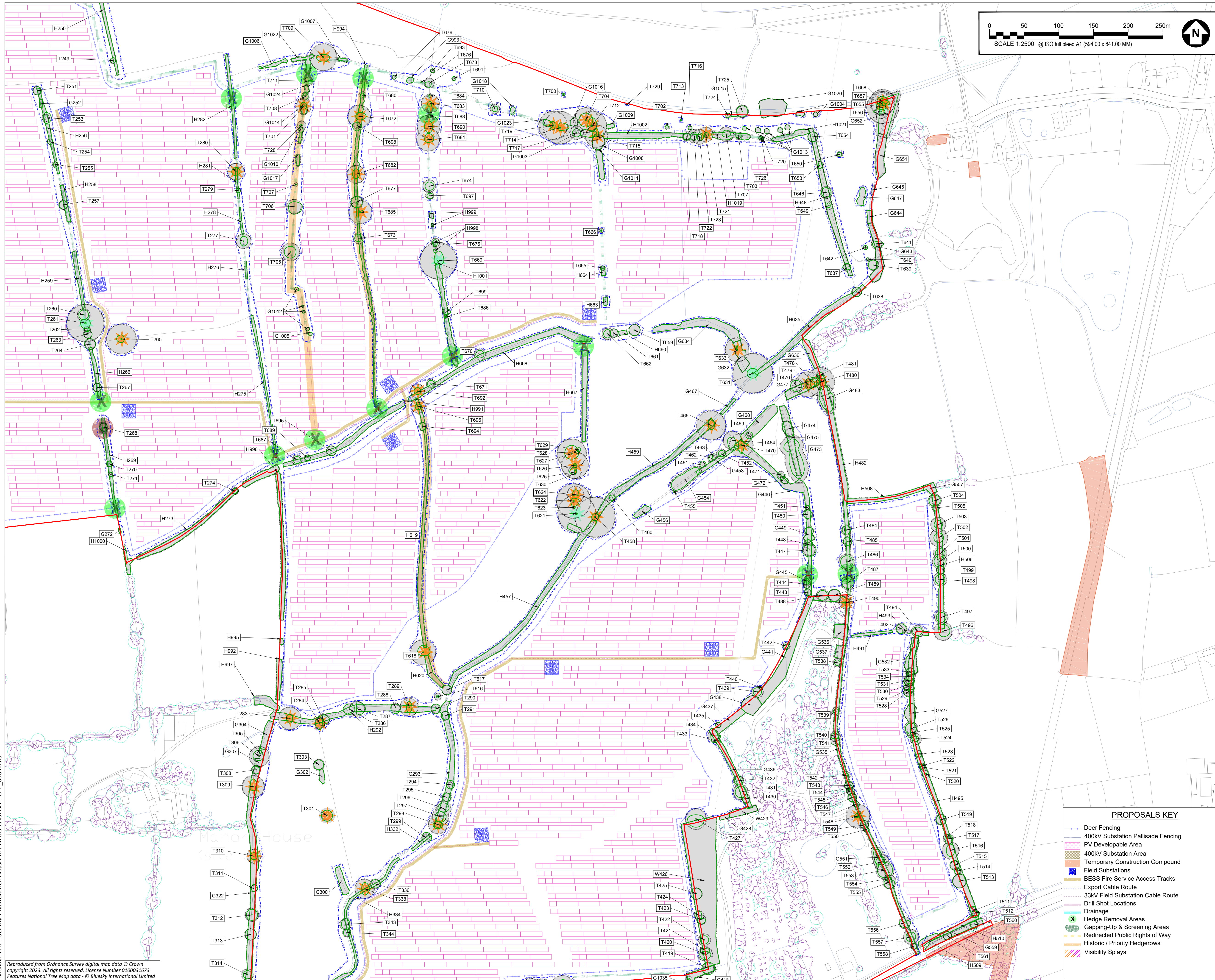
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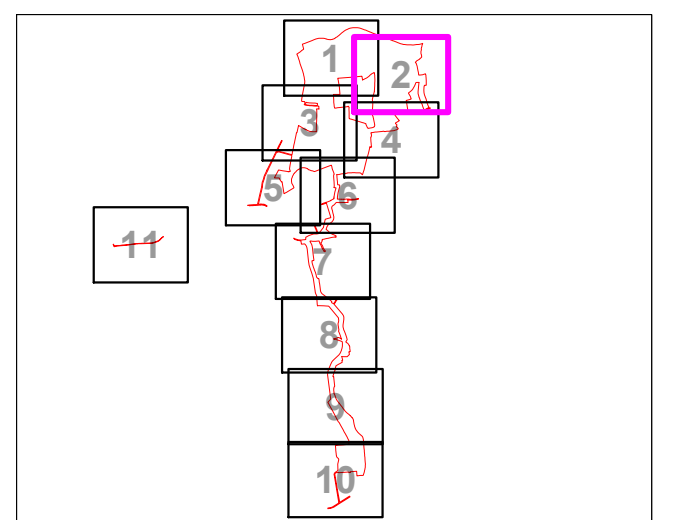




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**KEY PLAN**



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IR	DATE	DESCRIPTION
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ISSUE

**PROJECT NUMBER**  
60698207

**SHEET TITLE**  
TREE PROTECTION PLAN  
(SHEET 2)

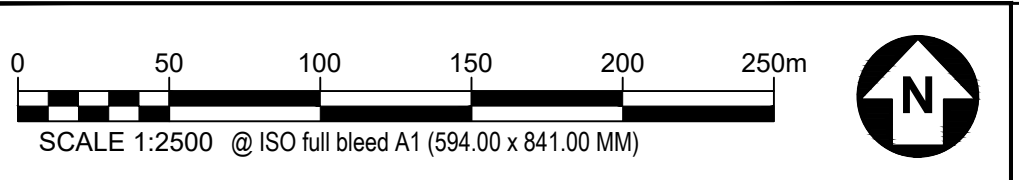
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60698207-ACM-XX-XX-AB-TFP-002      P01

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Author: GA Designer: JB Checked: TR Approver: AW



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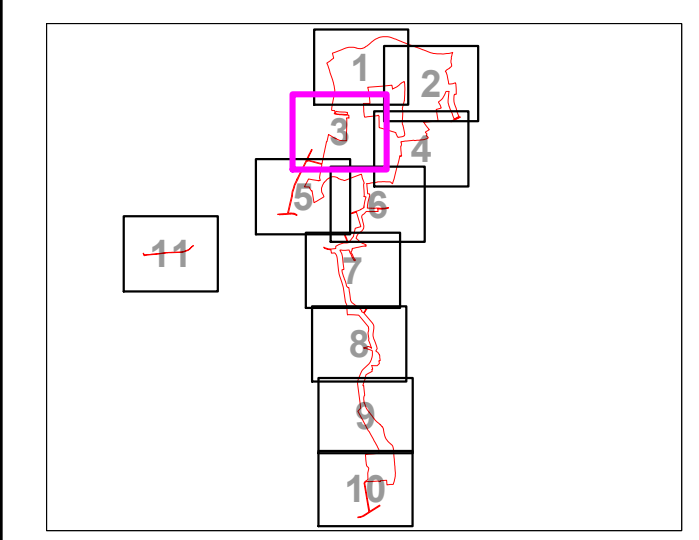
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CLIENT  
FENWICK SOLAR  
PROJECT LIMITED  
CONSULTANT

AECOM  
Plumfer House, Third Floor,  
East Wing, Tallyour Road  
Plymouth, PL6 5DH  
Tel +44(0)1752 676700  
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KEY PLAN



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ISSUE/REVISION

NO	DATE	DESCRIPTION
P01	16.08.24	FIRST ISSUE
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DRAWING STATUS  
ISSUE

PROJECT NUMBER  
60698207

SHEET TITLE  
TREE PROTECTION PLAN  
(SHEET 3)

SHEET NUMBER  
60698207-ACM-XX-XX-AB-TPP-03

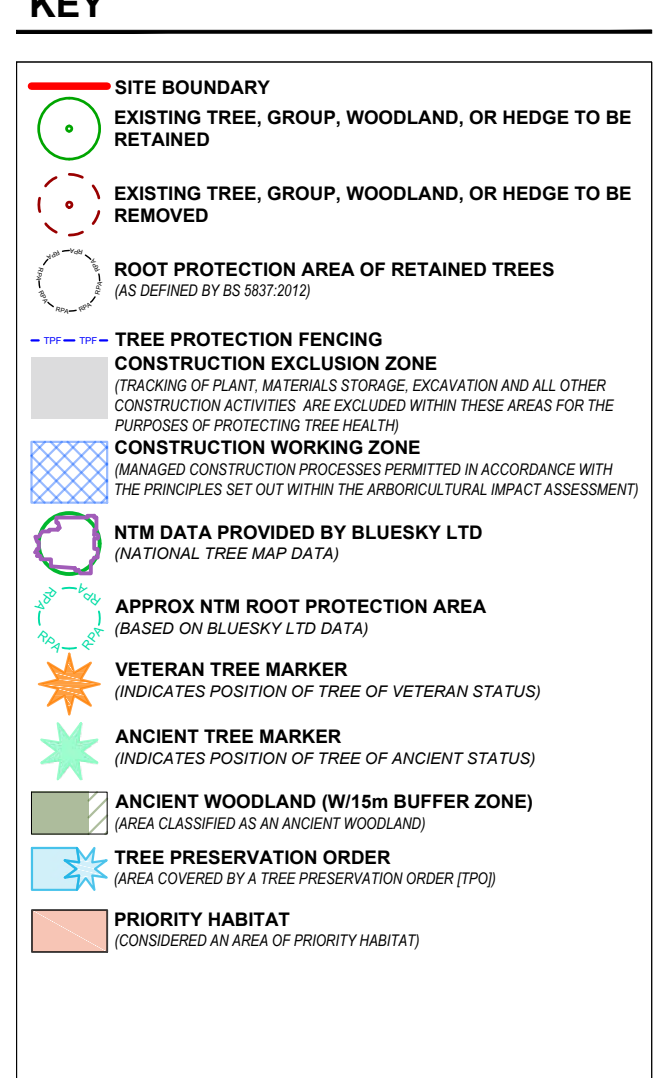
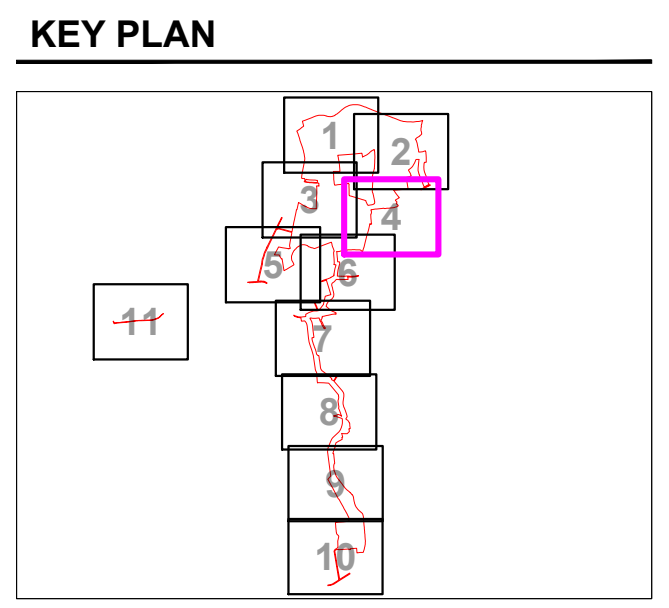
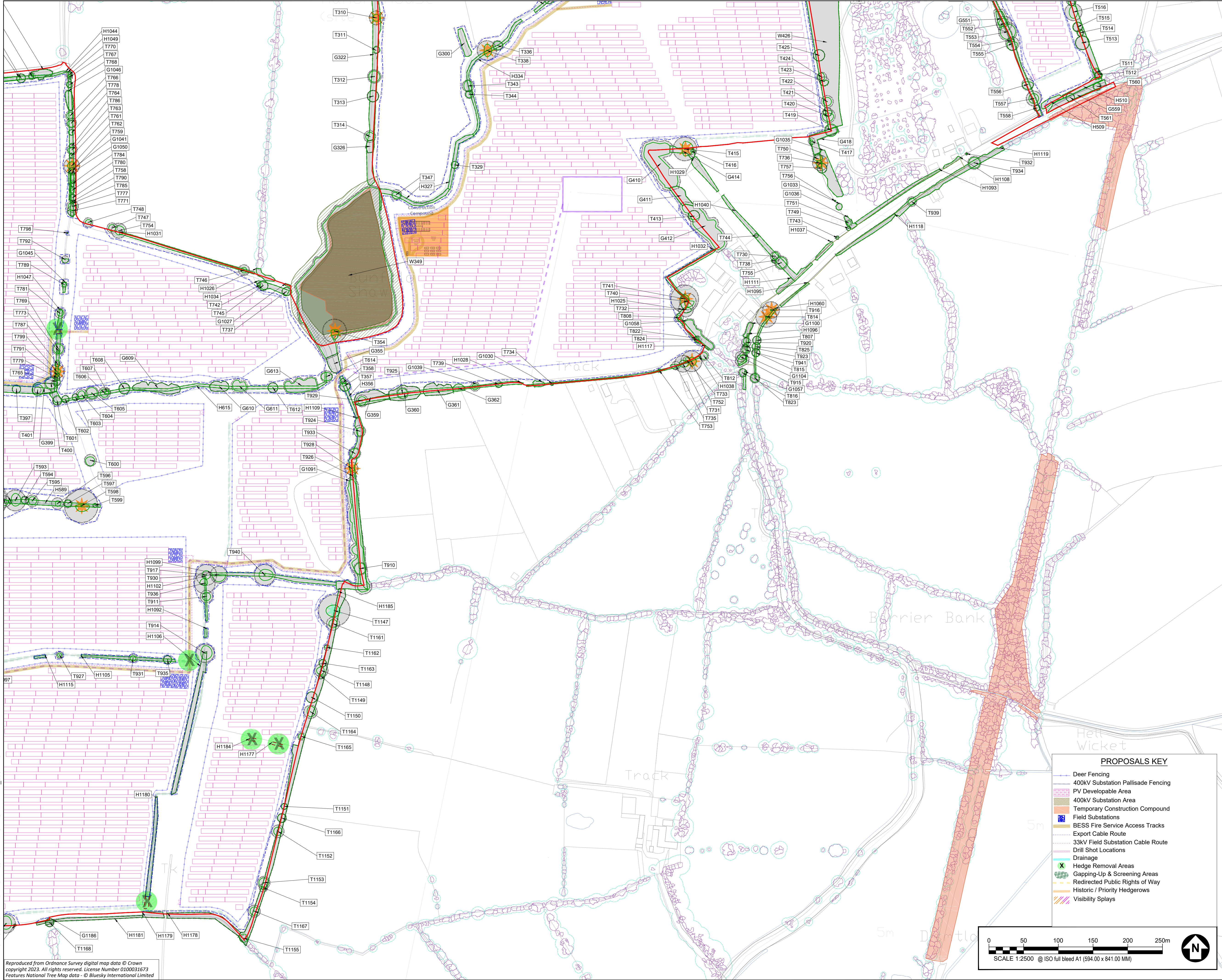
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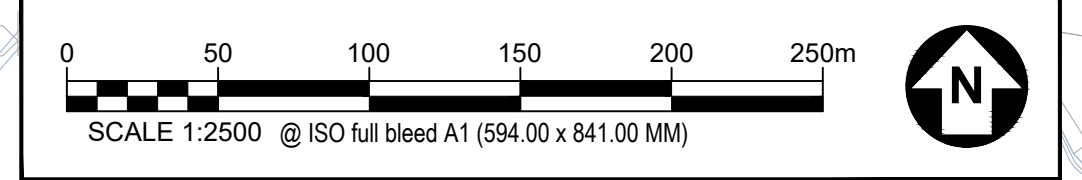
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**PROJECT NUMBER**  
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**SHEET TITLE**  
TREE PROTECTION PLAN  
(SHEET 4)

**SHEET NUMBER** 60698207-ACM-XX-XX-AB-TPP-04  
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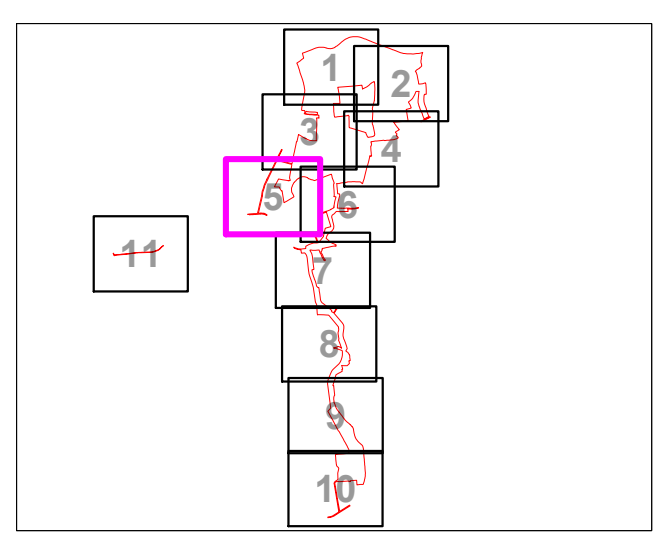
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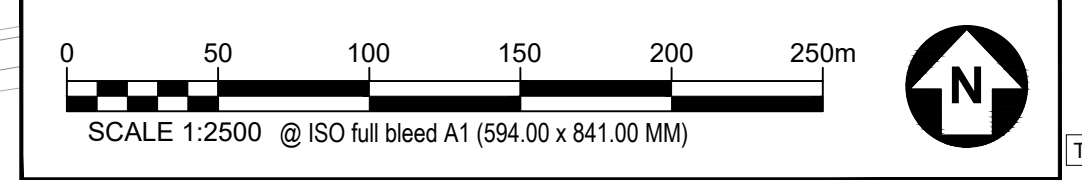
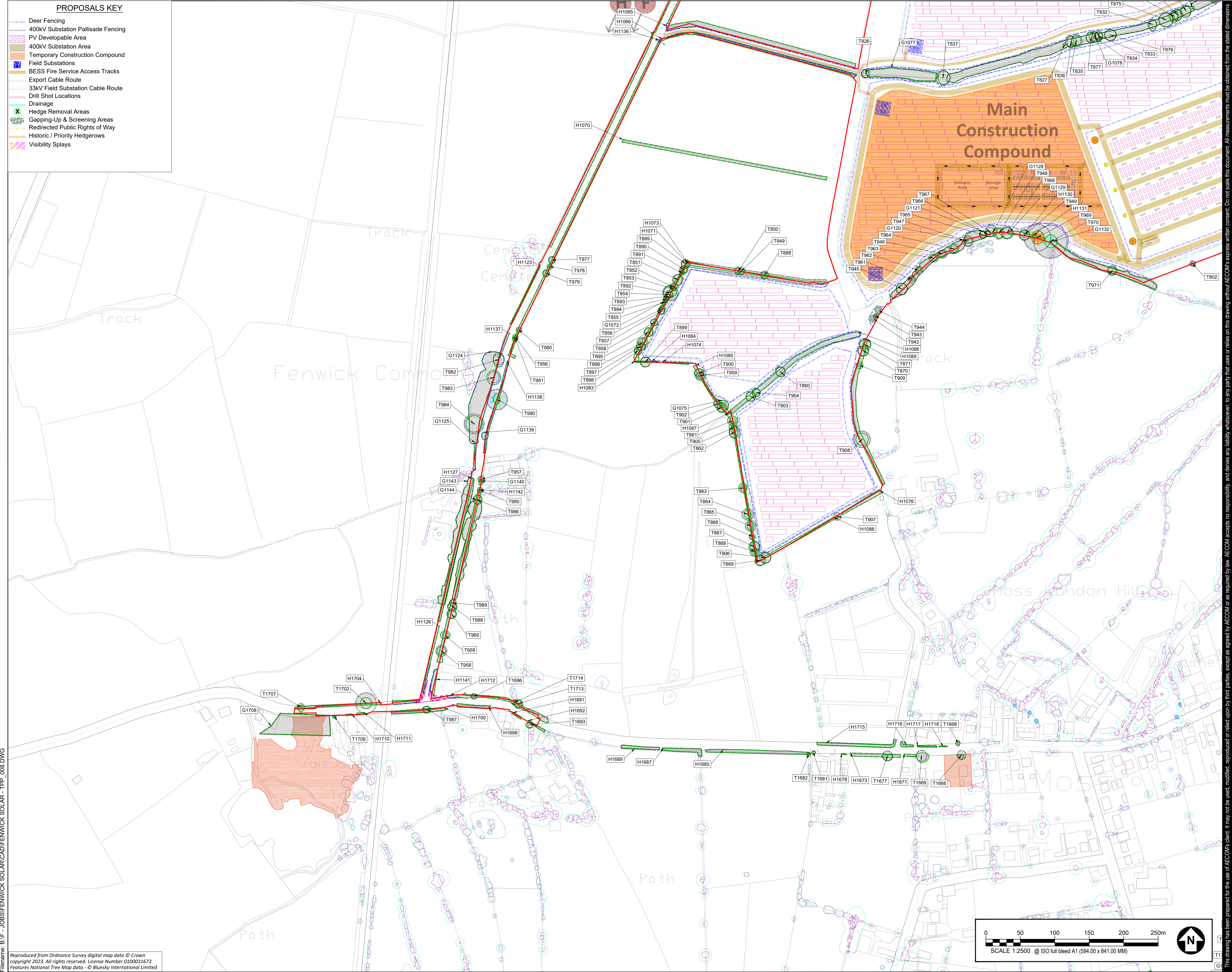
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PROJECT NUMBER  
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SHEET TITLE  
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(SHEET 5)

SHEET NUMBER  
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REV.  
P01

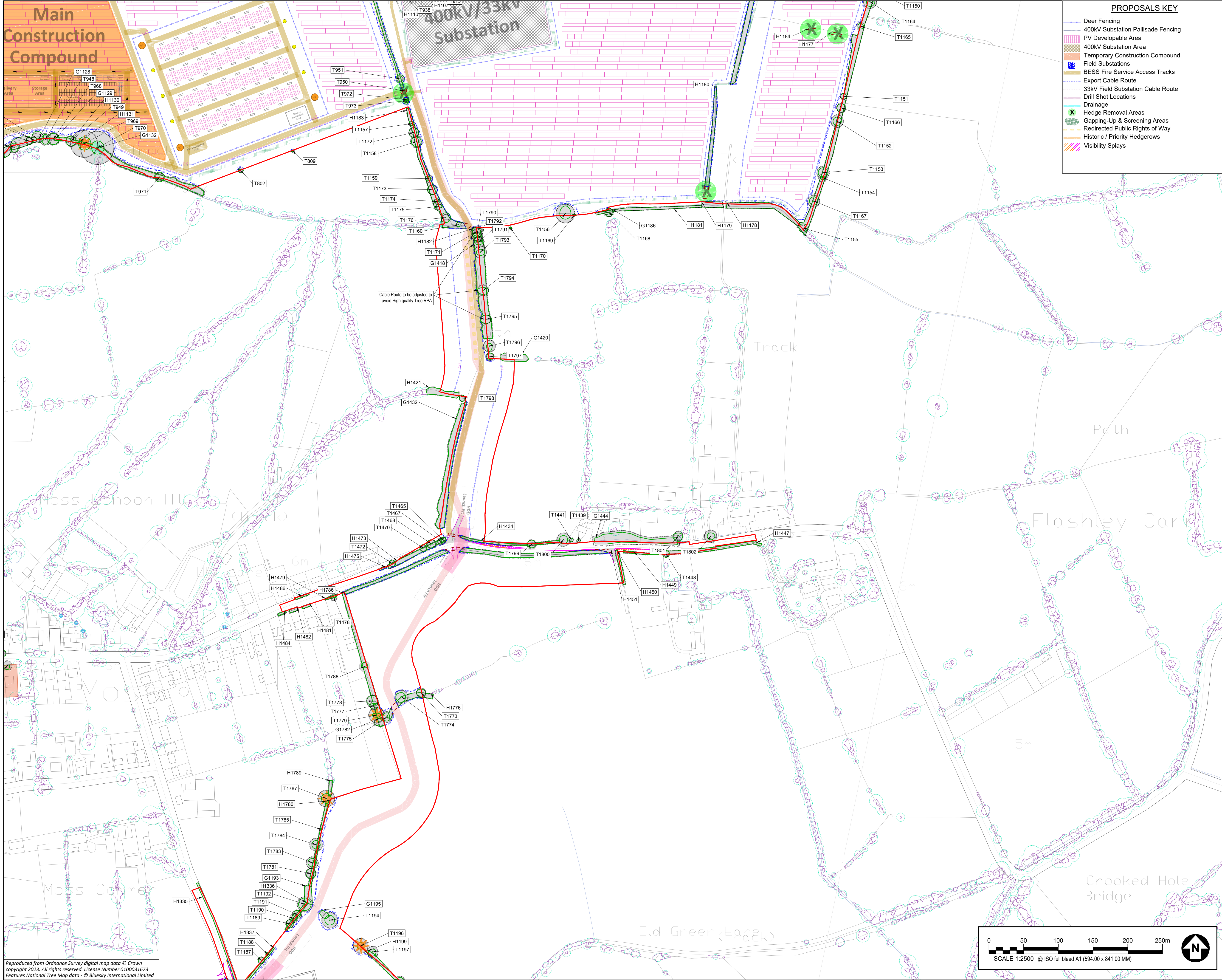


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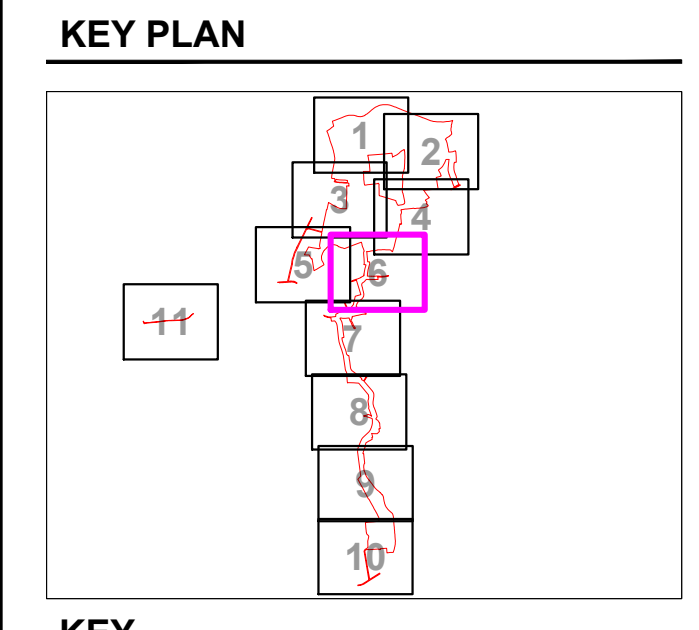
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FENW-Overall-Layout-v4.5.1\_Smp3.dwg



**KEY**

- SITE BOUNDARY
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- EXISTING TREE, GROUP, WOODLAND, OR HEDGE TO BE REMOVED
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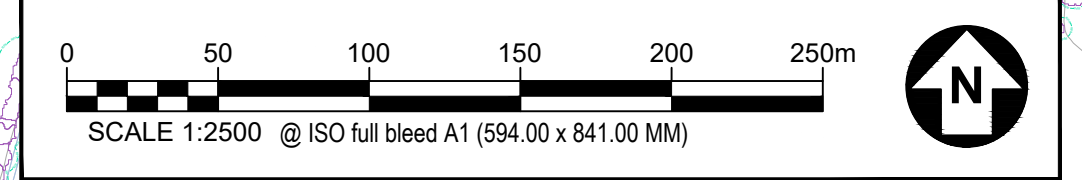
**DRAWING STATUS**  
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**PROJECT NUMBER**  
60698207

**SHEET TITLE**  
TREE PROTECTION PLAN (SHEET 6)

**SHEET NUMBER**      **REV.**

60698207-ACM-XX-XX-AB-TPP-06      P01



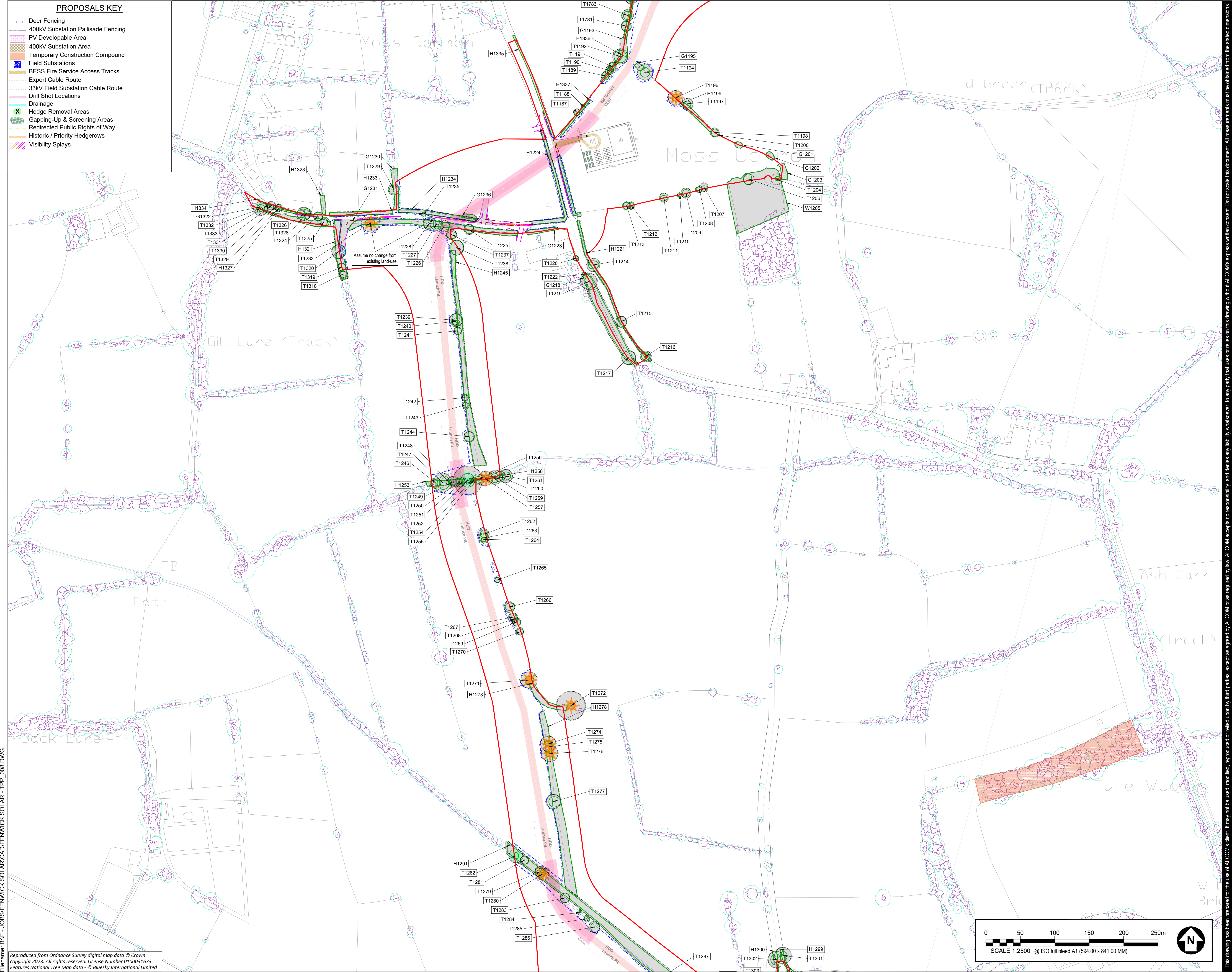
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Author: GA Designer: JB Checked: TR Approver: AW

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- 33kV Field Substation Cable Route
- Drill Shot Locations
- Drainage
- Hedge Removal Areas
- Gapping-Up & Screening Areas
- Redirected Public Rights of Way
- Historic / Priority Hedgerows
- Visibility Splays



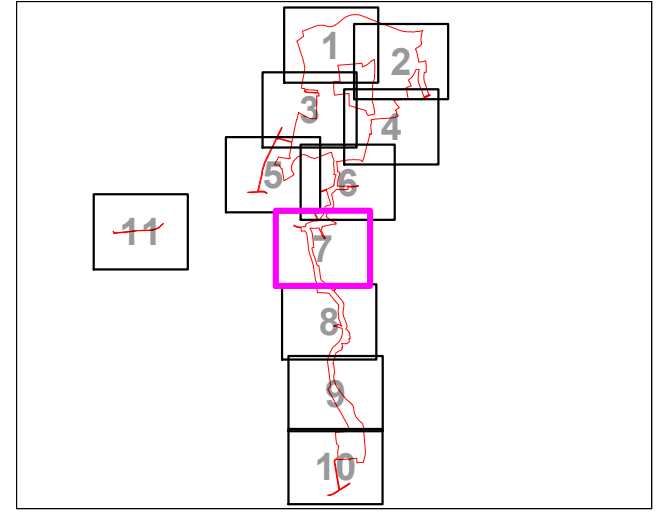
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KEY PLAN



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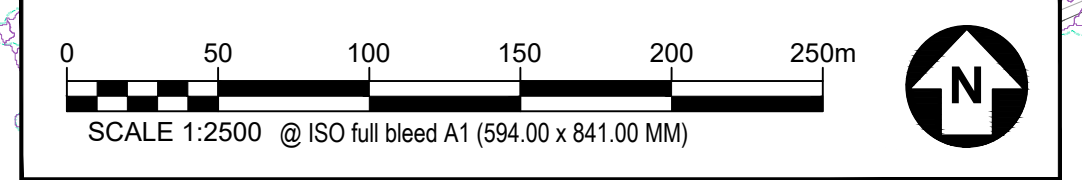
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PROJECT NUMBER  
60698207

SHEET TITLE  
TREE PROTECTION PLAN  
(SHEET 7)

SHEET NUMBER  
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REV.  
P01



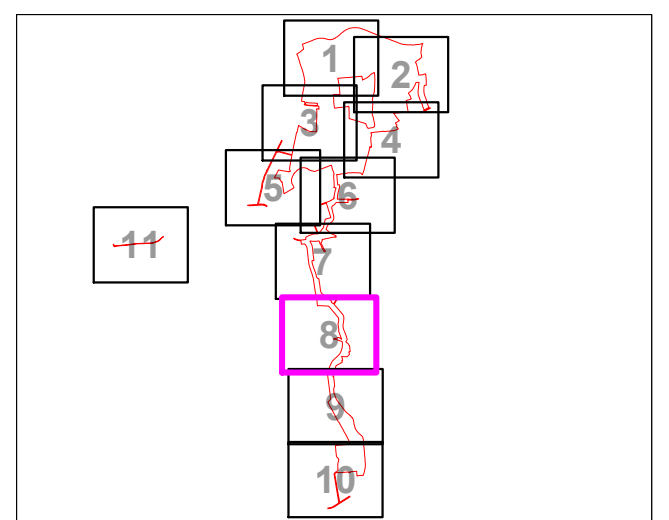
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**KEY PLAN**



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ISSUE

**PROJECT NUMBER**

60698207

**SHEET TITLE**

TREE PROTECTION PLAN (SHEET 8)

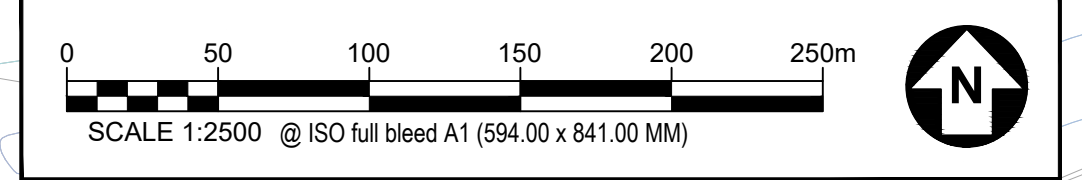
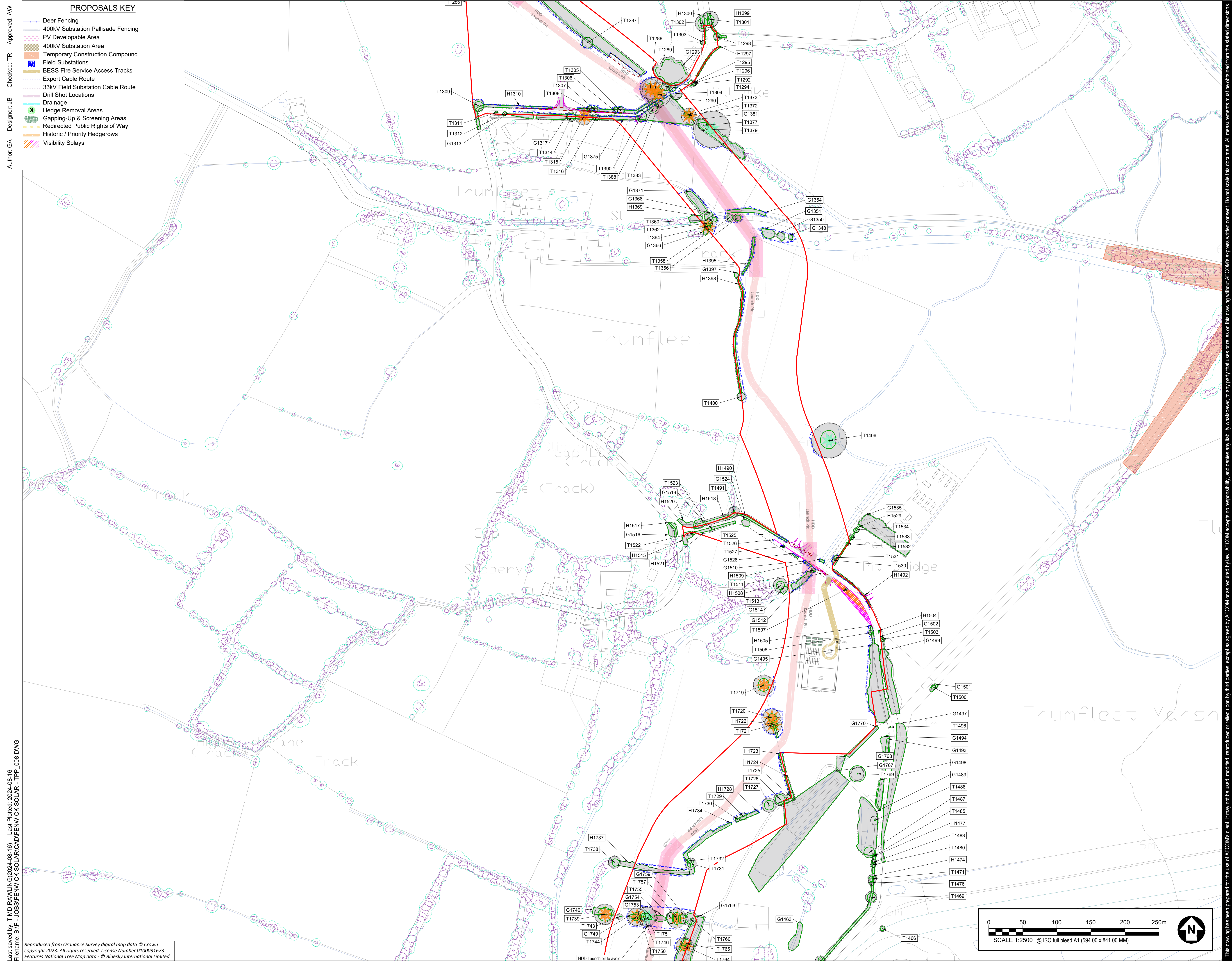
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60698207-ACM-XX-XX-AB-TPP-08

**REV.**

P01

- PROPOSALS KEY**
- Deer Fencing
  - 400kV Substation Pallisade Fencing
  - PV Developable Area
  - 400kV Substation Area
  - Temporary Construction Compound
  - Field Substations
  - BESS Fire Service Access Tracks
  - Export Cable Route
  - 33kV Field Substation Cable Route
  - Drill Shot Locations
  - Drainage
  - X Hedge Removal Areas
  - Gapping-Up & Screening Areas
  - Redirected Public Rights of Way
  - Historic / Priority Hedgerows
  - Visibility Splays



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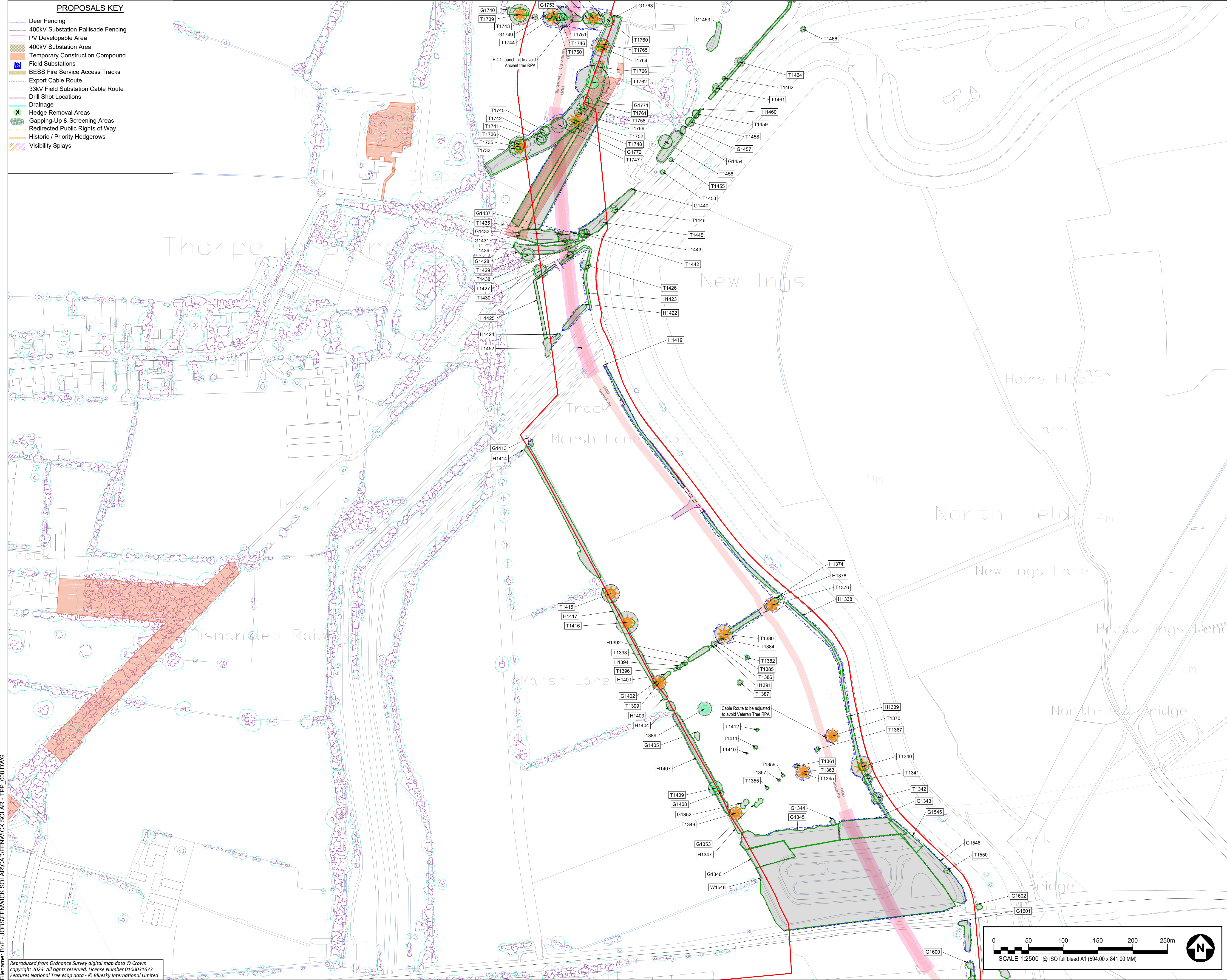
Author: GA Designer: JB Checked: TR Approved: AW



Author: GA Designer: JB Checked: TR Approver: AW

PROPOSALS KEY

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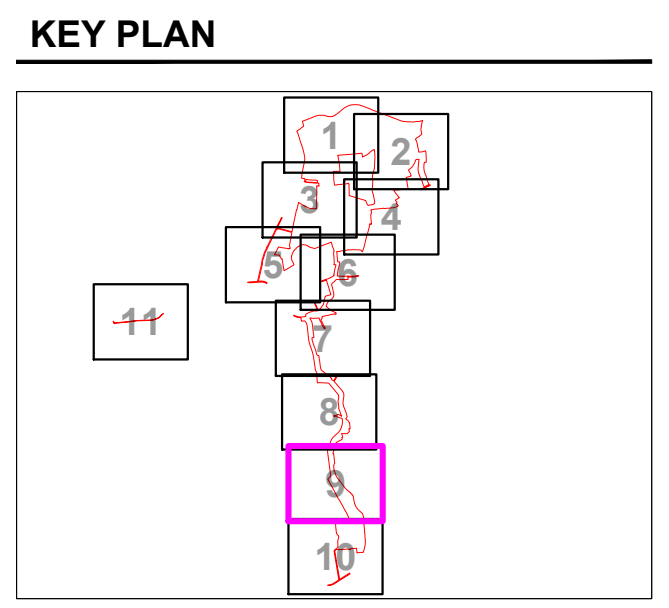


PROJECT  
FENWICK SOLAR FARM

CLIENT  
FENWICK SOLAR  
PROJECT LIMITED  
CONSULTANT

AECOM  
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Plymouth, PL6 5DH  
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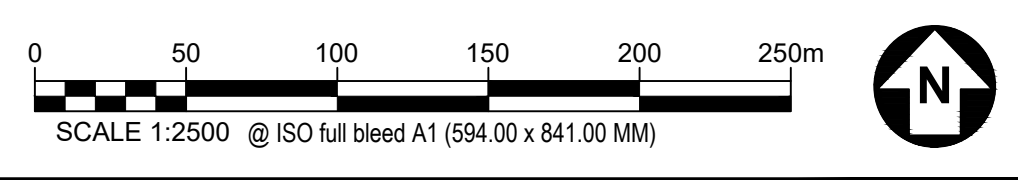
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PROJECT NUMBER  
60698207

SHEET TITLE  
TREE PROTECTION PLAN  
(SHEET 9)

SHEET NUMBER  
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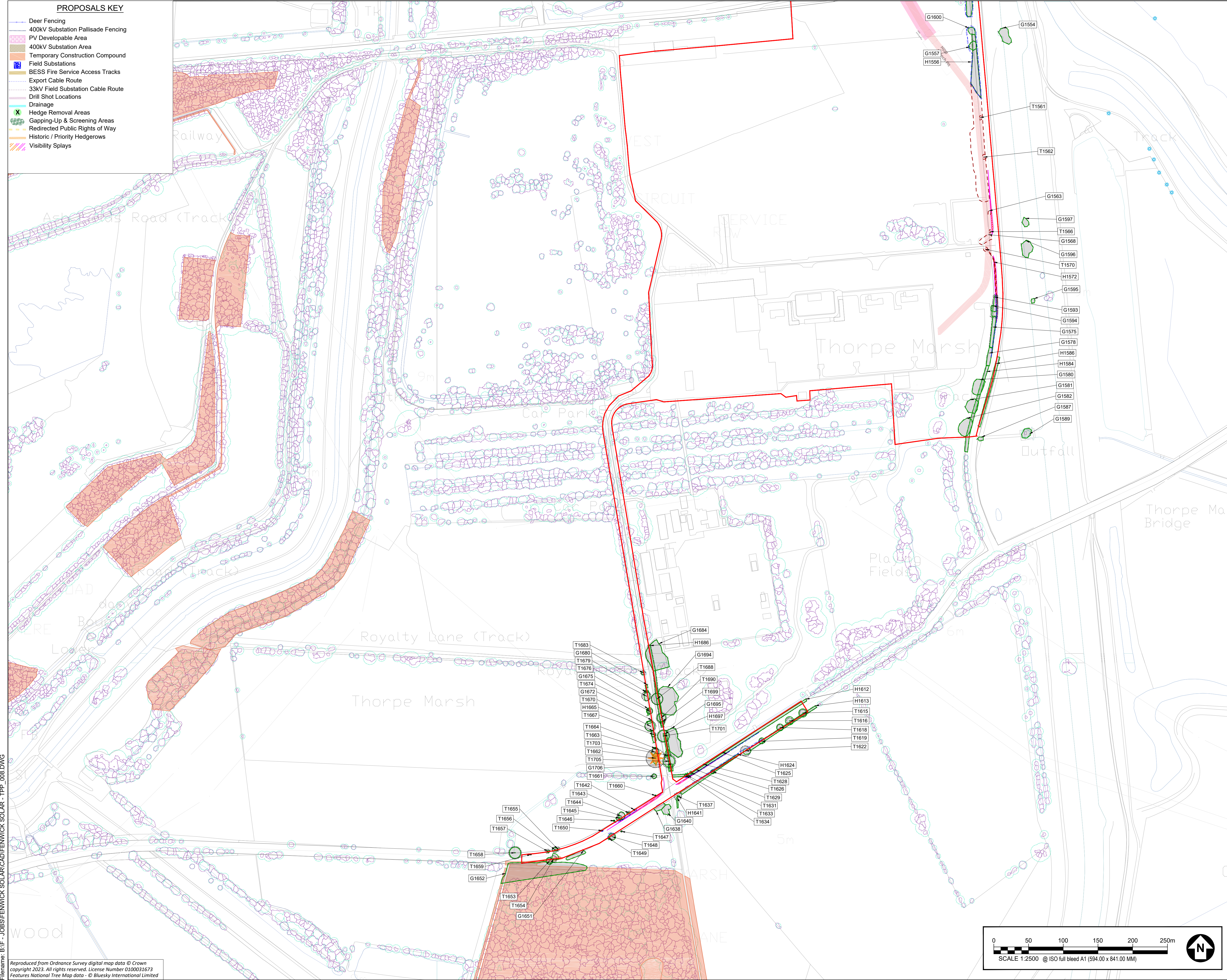
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Author: GA Designer: JB Checked: TR Approver: AW

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- Drainage
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- Redirected Public Rights of Way
- Historic / Priority Hedgerows
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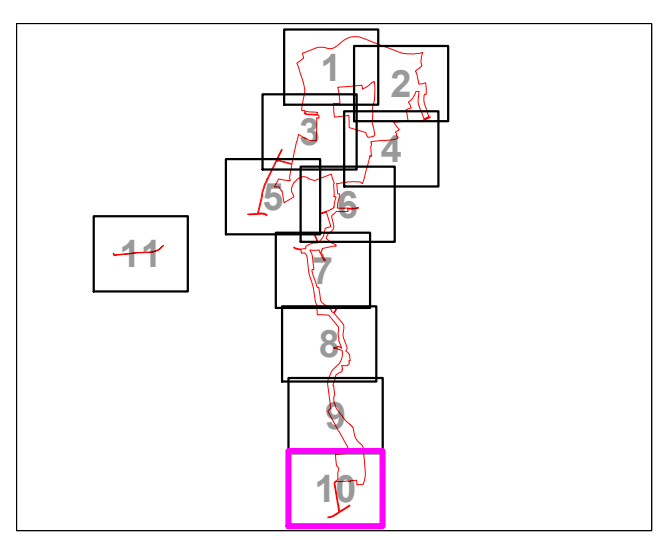
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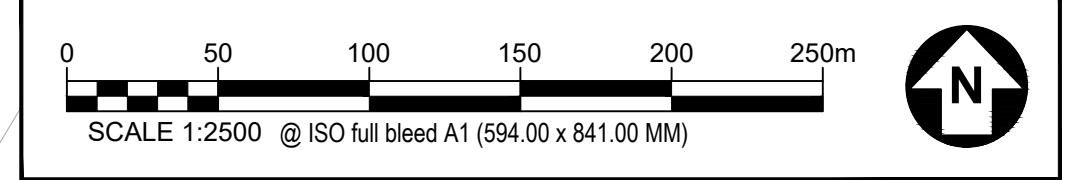
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SHEET TITLE  
TREE PROTECTION PLAN  
(SHEET 10)

SHEET NUMBER  
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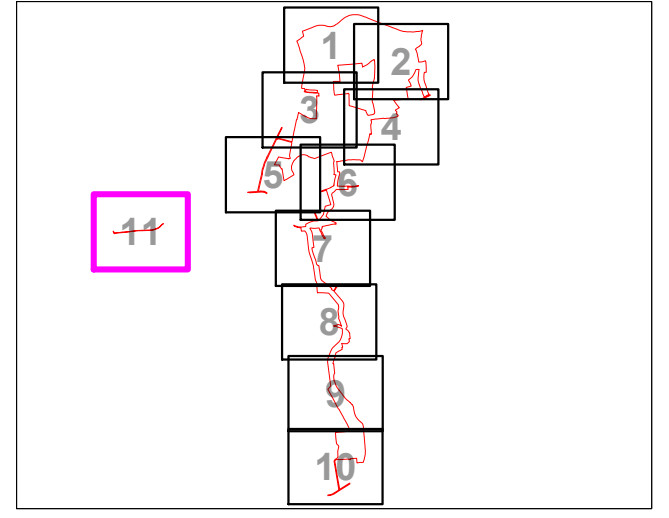
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IR		DATE DESCRIPTION

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PROJECT NUMBER  
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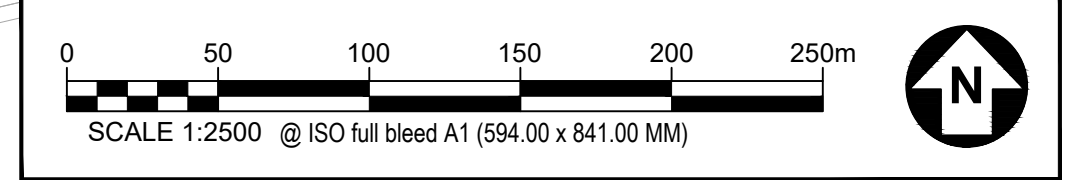
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TREE PROTECTION PLAN  
(SHEET 11)

SHEET NUMBER  
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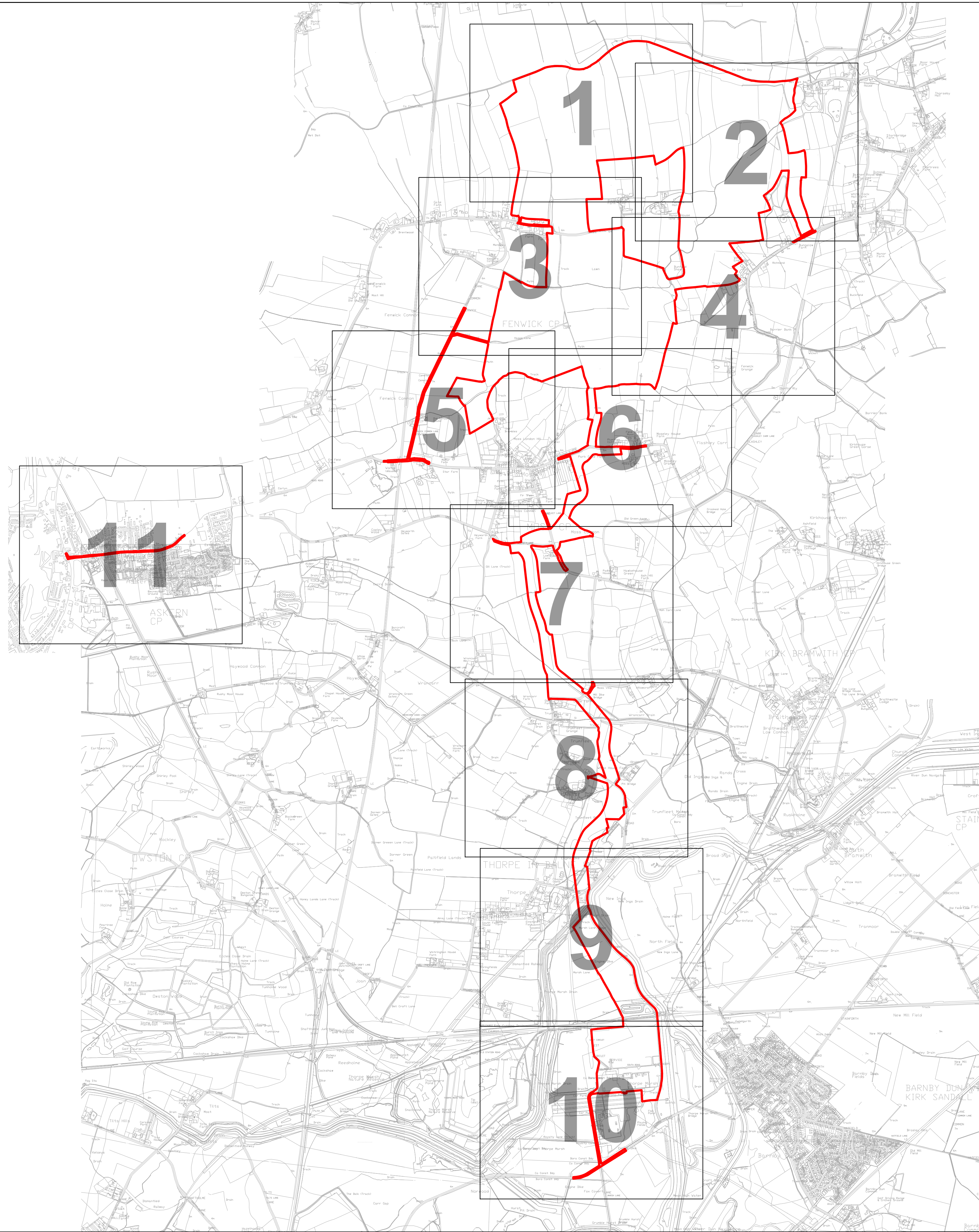


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# Annex D Tree Shade Plan





**PROJECT**  
 FENWICK SOLAR FARM

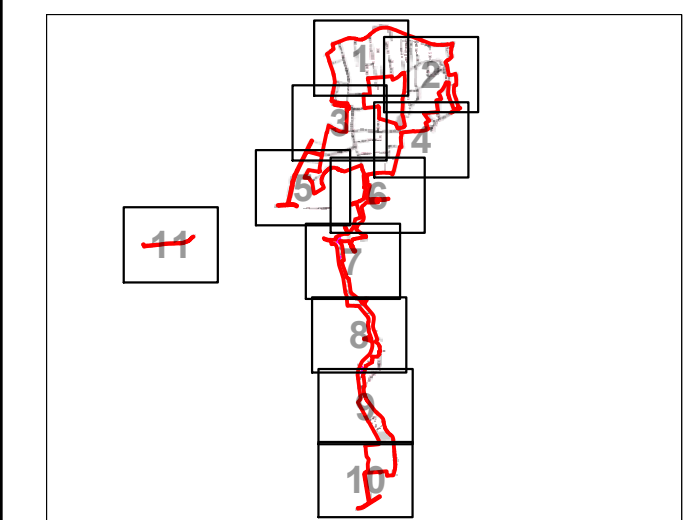
**CLIENT**  
 FENWICK SOLAR  
 PROJECT LIMITED  
 CONSULTANT

**AECOM**  
 Plumer House, Third Floor,  
 East Wing, Tallyour Road  
 Plymouth, PL6 5DH  
 Tel +44(0)1752 676700  
 Fax +44(0)870 238 6023  
 www.aecom.com

**GENERAL NOTES**

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2. TREE LOCATIONS ARE BASED ON AERIAL IMAGERY, AND GPS CO-ORDINATES FROM ON SITE WALKOVER.
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 FENW-Overall Layout-v4.5.1\_Simp3.dwg

**KEY PLAN**



**KEY**

- SITE BOUNDARY
- EXISTING TREE, GROUP, WOODLAND, OR HEDGE TO BE RETAINED
- EXISTING TREE, GROUP, WOODLAND, OR HEDGE TO BE REMOVED
- VETERAN TREE MARKER (INDICATES POSITION OF TREE OF VETERAN STATUS)
- ANCIENT TREE MARKER (INDICATES POSITION OF TREE OF ANCIENT STATUS)
- APPROXIMATE SHADING ARC (AS DEFINED BY BS 5837:2012)
- APPROXIMATE MATURE SHADING ARC (AS DEFINED BY BS 5837:2012)
- ANCIENT WOODLAND (W/15m BUFFER ZONE) (AREA CLASSIFIED AS AN ANCIENT WOODLAND)

**ISSUE/REVISION**

IR	DATE	DESCRIPTION
P01	14.08.24	FIRST ISSUE

**DRAWING STATUS**

ISSUE

**PROJECT NUMBER**

60698207

**SHEET TITLE**

TREE SHADING ARC PLAN  
 (SHEET 00)

**SHEET NUMBER**

60698207-ACM-XX-XX-AB-TSAP-000

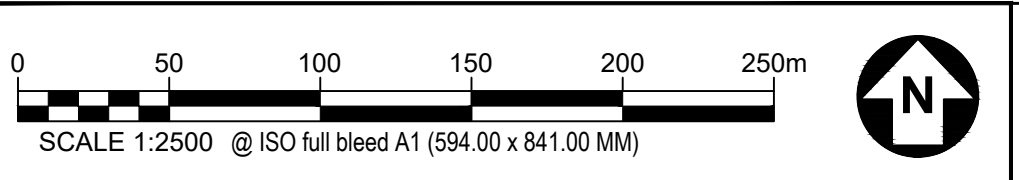
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Author: GA Designer: JB Checked: TR Approved: AW



PROPOSALS KEY

- Deer Fencing
- 400kV Substation Pallisade Fencing
- PV Developable Area
- 400kV Substation Area
- Temporary Construction Compound
- Field Substations
- BESS Fire Service Access Tracks
- Export Cable Route
- 33kV Field Substation Cable Route
- Drill Shot Locations
- Drainage
- Hedge Removal Areas
- Gapping-Up & Screening Areas
- Redirected Public Rights of Way
- Historic / Priority Hedgerows

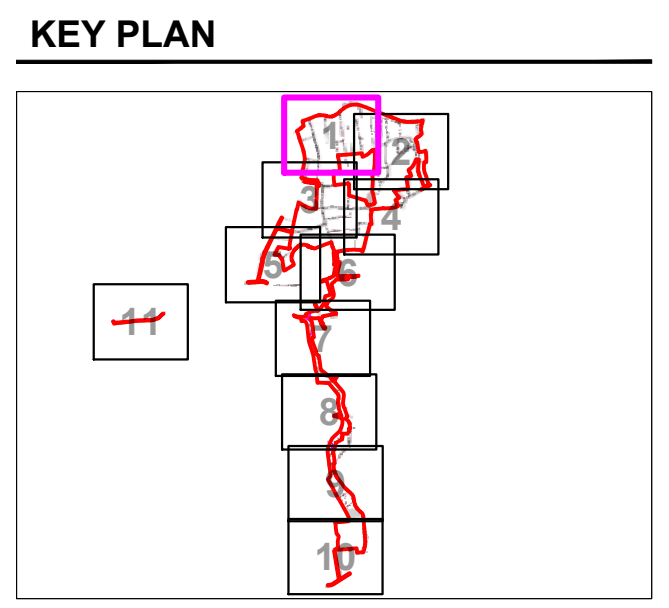


PROJECT  
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AECOM  
Plumfer House, Third Floor,  
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Plymouth, PL6 5DH  
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NO	DATE	DESCRIPTION
P01	14.08.24	FIRST ISSUE
IR	DATE	DESCRIPTION

DRAWING STATUS  
ISSUE

PROJECT NUMBER  
60698207

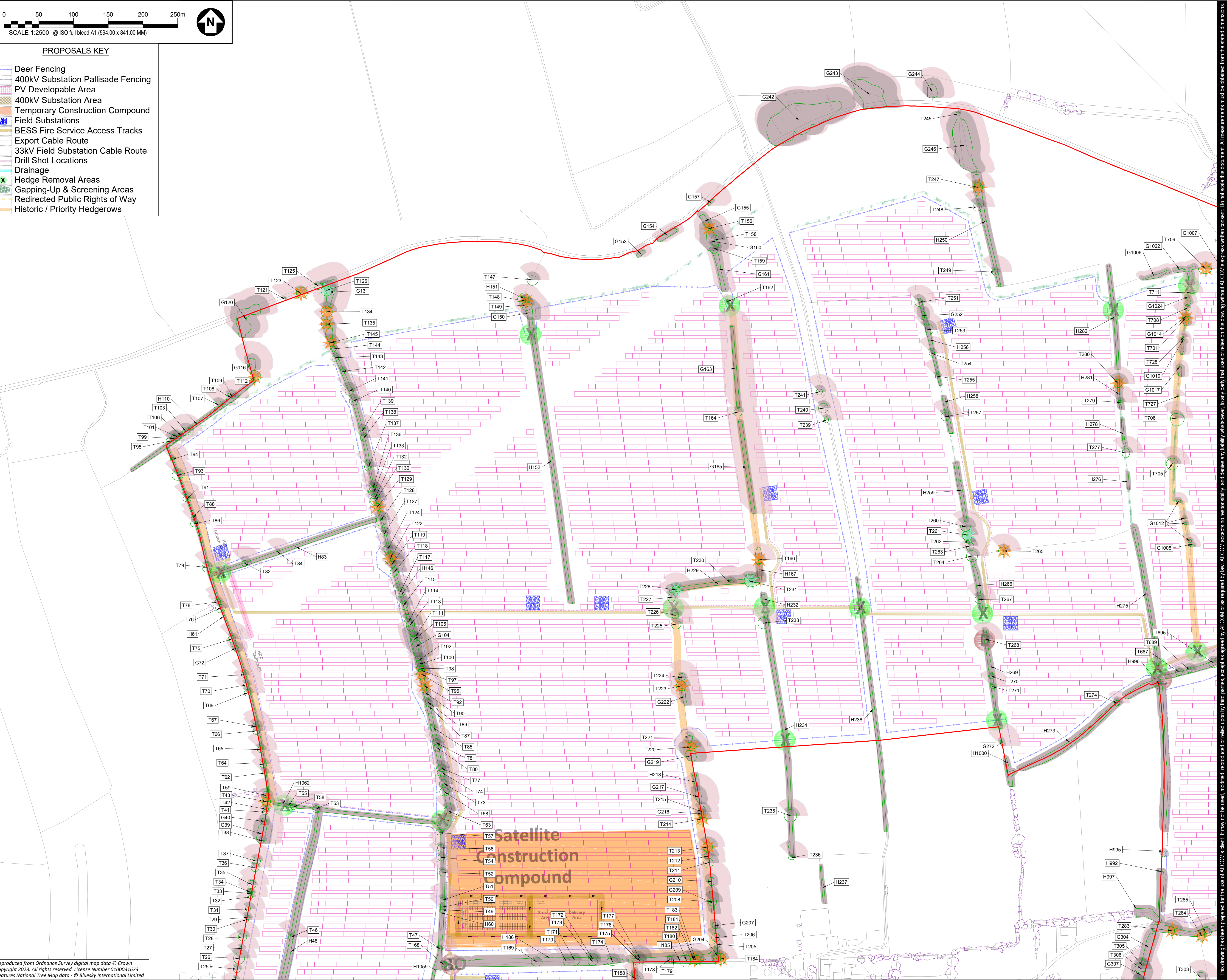
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TREE SHADING ARC PLAN (SHEET 01)

SHEET NUMBER  
60698207-ACM-XX-XX-AB-TSAP-001

REV.  
P01

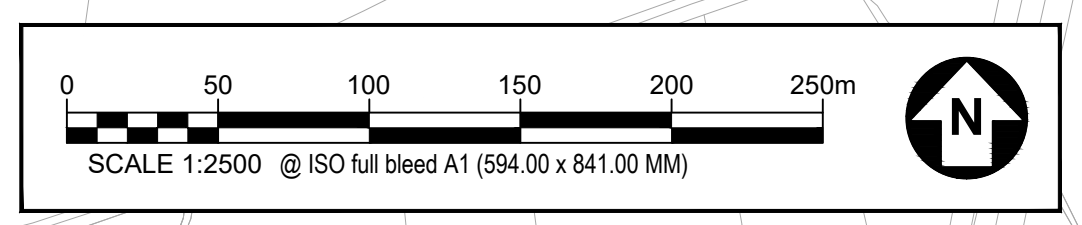
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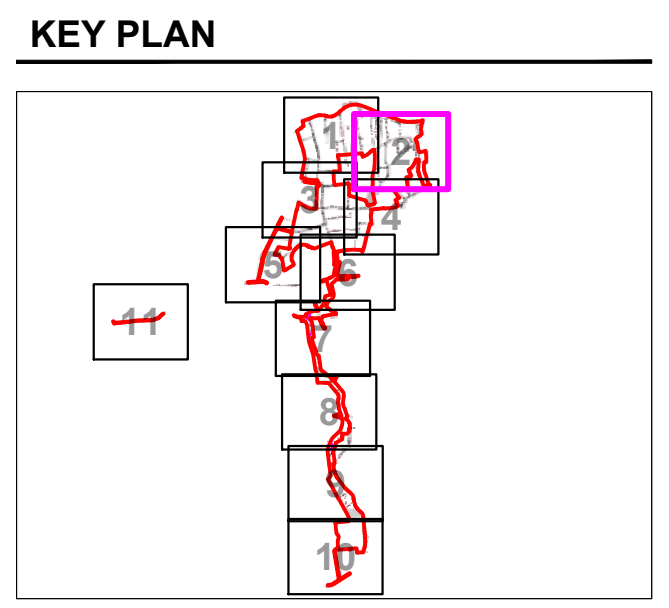


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**ISSUE/REVISION**

IR	DATE	DESCRIPTION
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**DRAWING STATUS**  
ISSUE

**PROJECT NUMBER**  
60698207

**SHEET TITLE**  
TREE SHADING ARC PLAN  
(SHEET 02)

**SHEET NUMBER**      **REV.**  
60698207-ACM-XX-XX-AB-TSAP-002      P01

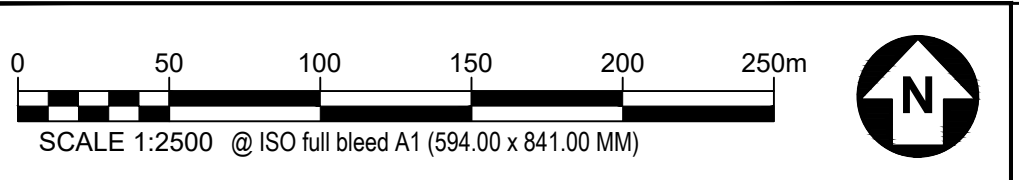
- PROPOSALS KEY**
- Deer Fencing
  - 400kV Substation Pallisade Fencing
  - PV Developable Area
  - 400kV Substation Area
  - Temporary Construction Compound
  - Field Substations
  - BESS Fire Service Access Tracks
  - Export Cable Route
  - 33kV Field Substation Cable Route
  - Drill Shot Locations
  - Drainage
  - Hedge Removal Areas
  - Gapping-Up & Screening Areas
  - Redirected Public Rights of Way
  - Historic / Priority Hedgerows

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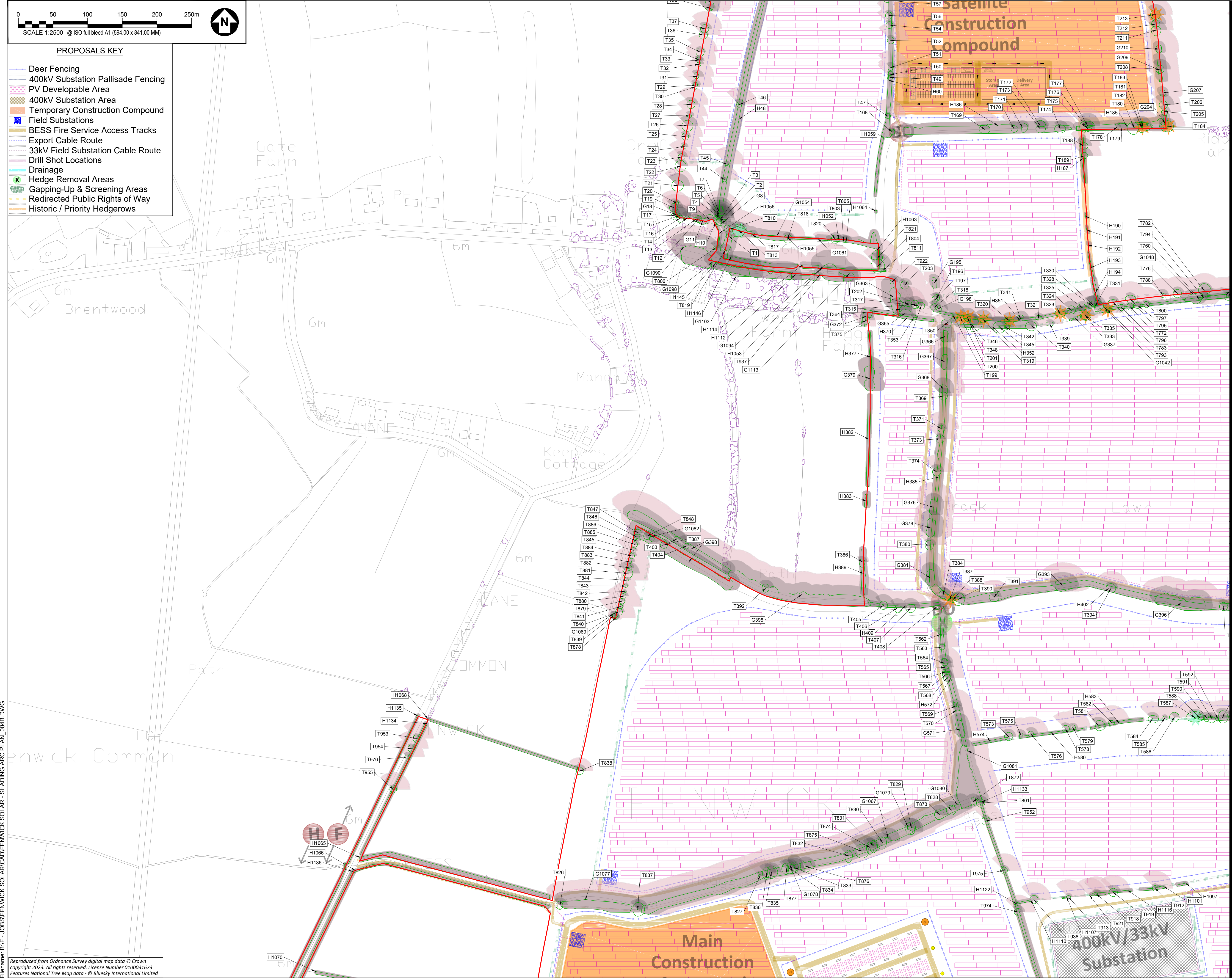


Author: GA Designer: JB Checked: TR Approver: AW



PROPOSALS KEY

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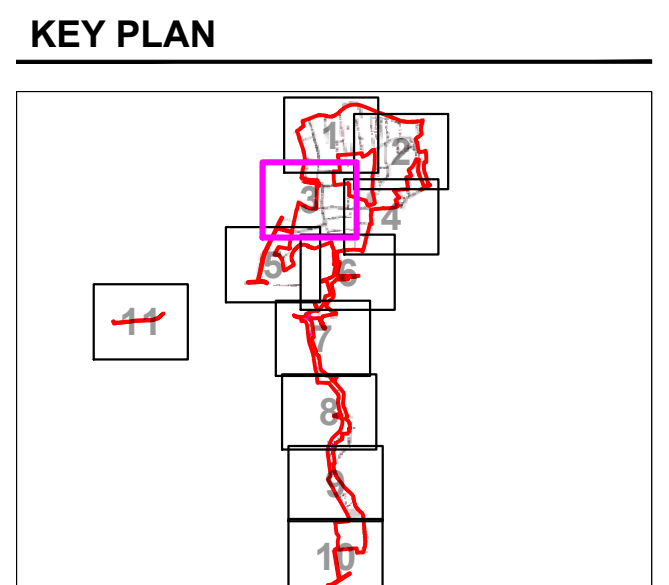


PROJECT  
FENWICK SOLAR FARM

CLIENT  
FENWICK SOLAR  
PROJECT LIMITED  
CONSULTANT

AECOM  
Plumber House, Third Floor,  
East Wing, Tallyour Road  
Plymouth, PL6 5DH  
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ISSUE/REVISION

NO	DATE	DESCRIPTION
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IR	DATE	DESCRIPTION

DRAWING STATUS  
ISSUE

PROJECT NUMBER  
60698207

SHEET TITLE  
TREE SHADING ARC PLAN  
(SHEET 03)

SHEET NUMBER  
60698207-ACM-XX-XX-AB-TSAP-003

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P01

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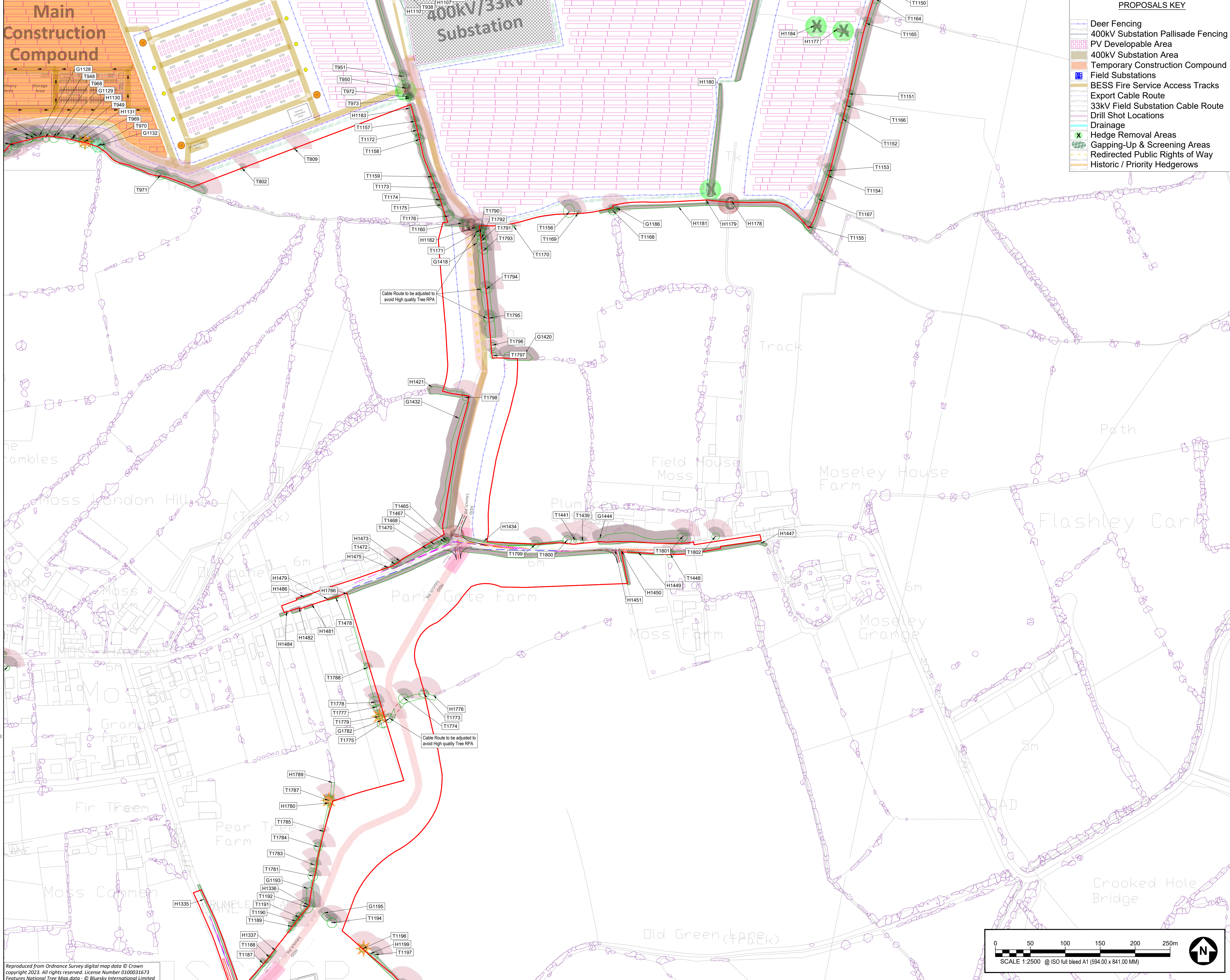












**PROPOSALS KEY**

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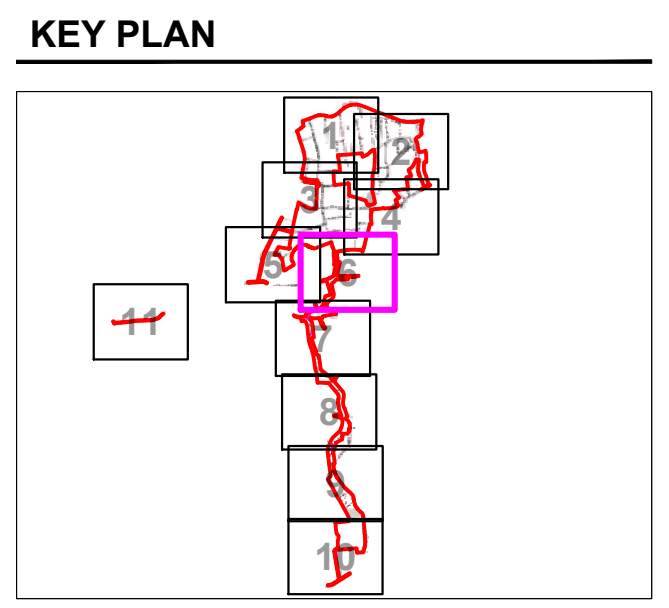
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**PROJECT**  
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**CLIENT**  
FENWICK SOLAR PROJECT LIMITED  
CONSULTANT

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FENW-Overall Layout-v4.5.1\_Smp3.dwg



**KEY**

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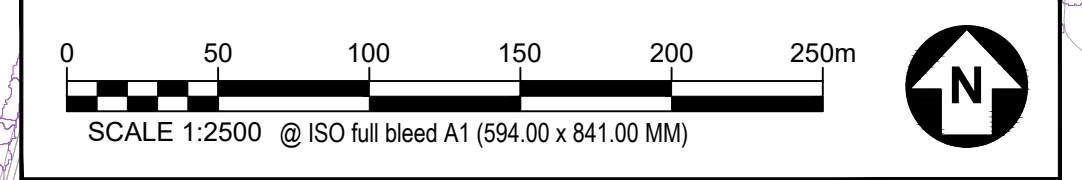
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**PROJECT NUMBER**  
60698207

**SHEET TITLE**  
TREE SHADING ARC PLAN (SHEET 06)

**SHEET NUMBER**  
60698207-ACM-XX-XX-AB-TSAP-006

**REV.**  
P01



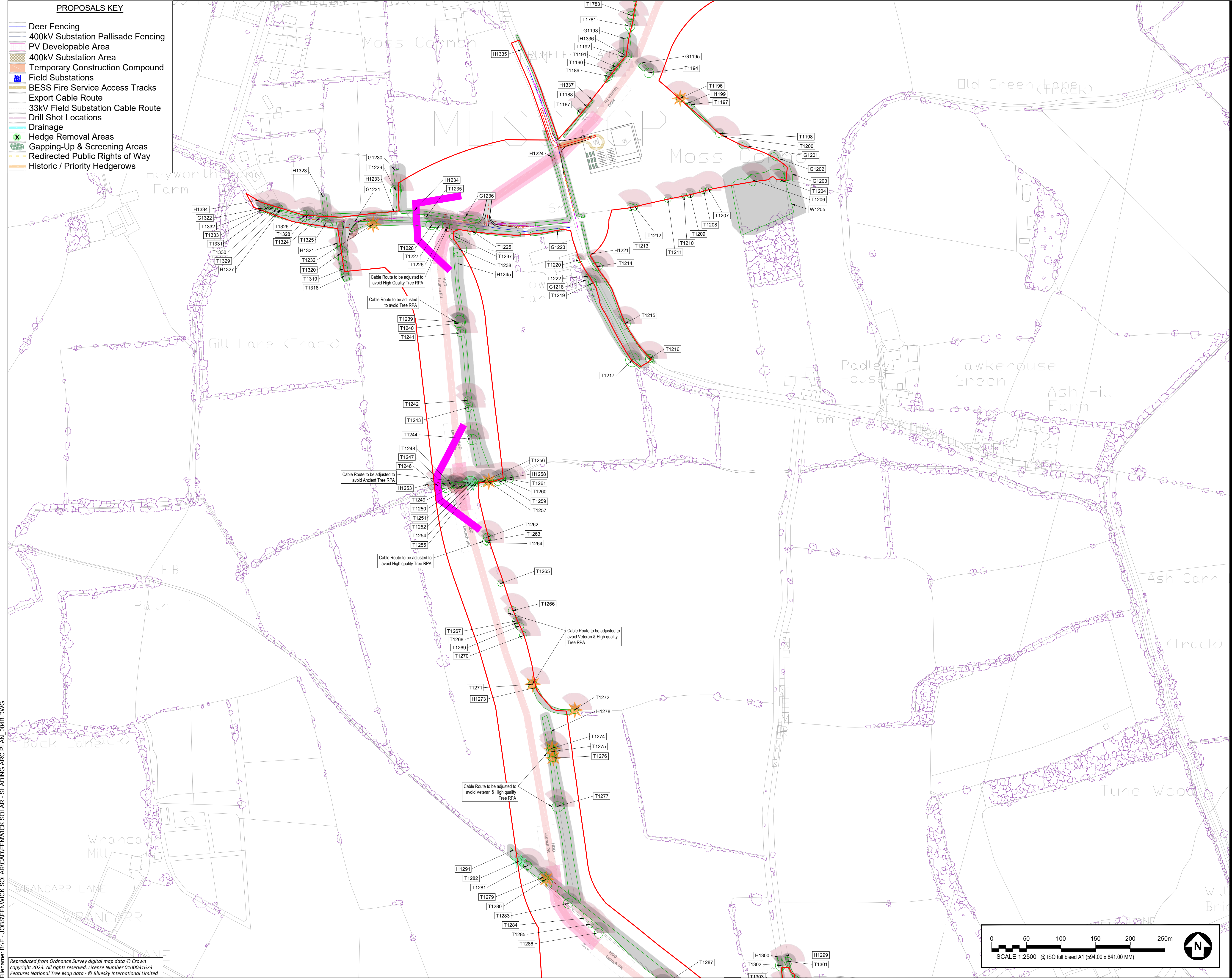
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Author: GA Designer: JB Checked: TR Approver: AW

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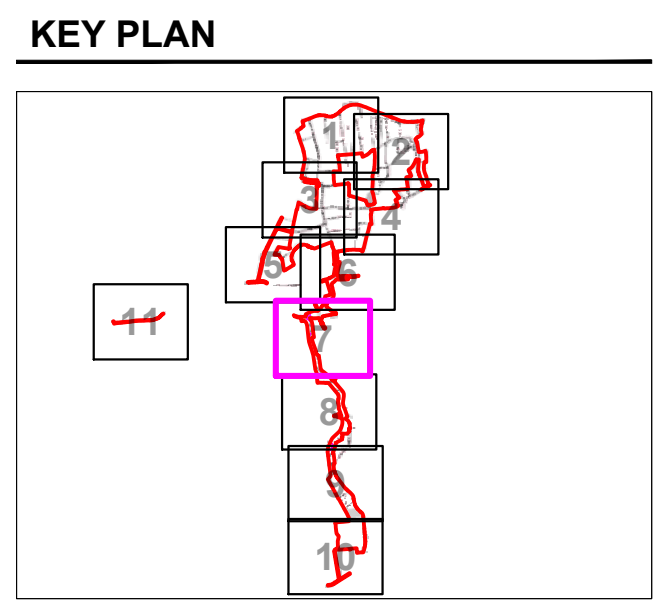


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PROJECT NUMBER  
60698207

SHEET TITLE  
TREE SHADING ARC PLAN  
(SHEET 07)

SHEET NUMBER  
60698207-ACM-XX-XX-AB-TSAP-007

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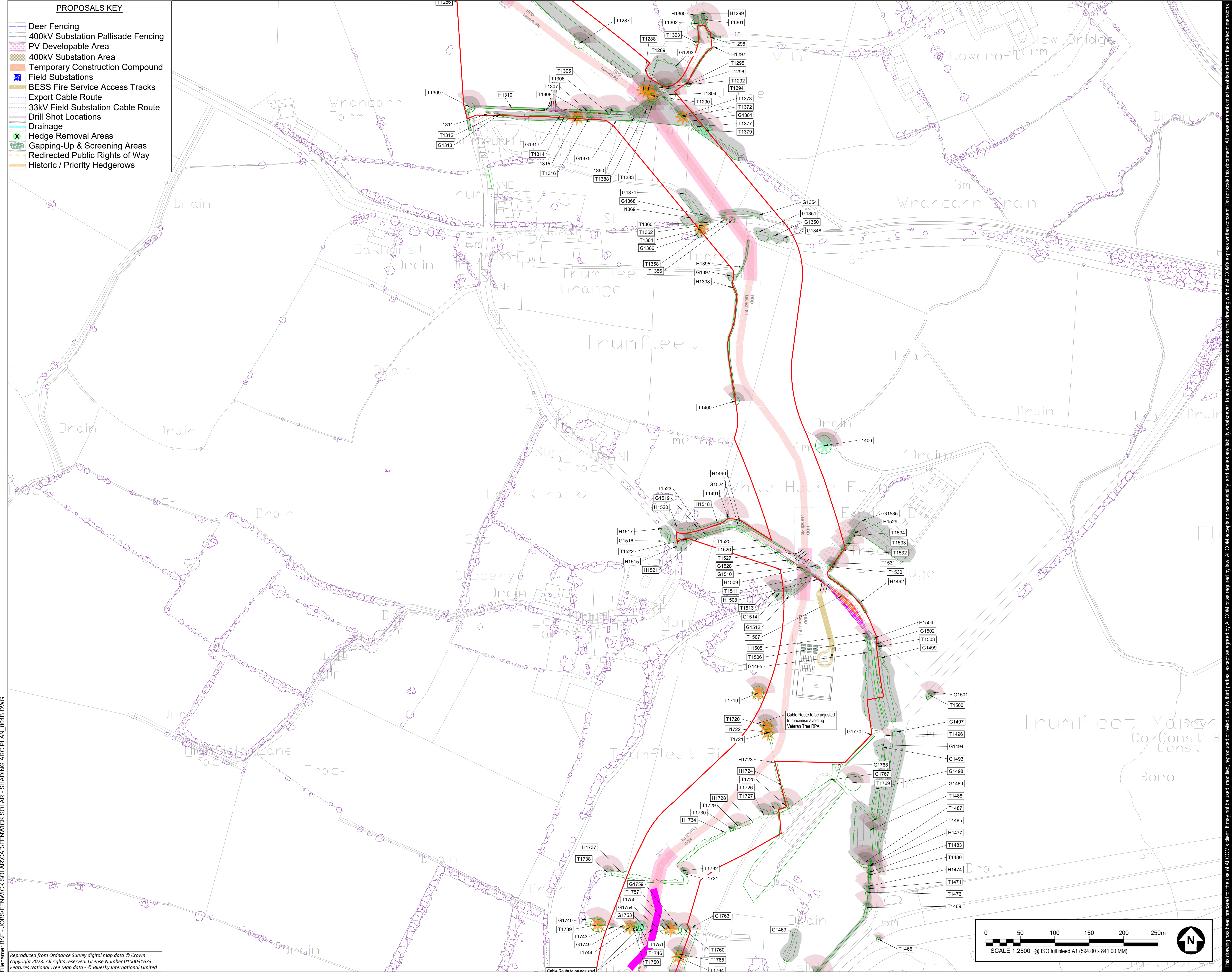
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Author: GA Designer: JB Checked: TR Approved: AW

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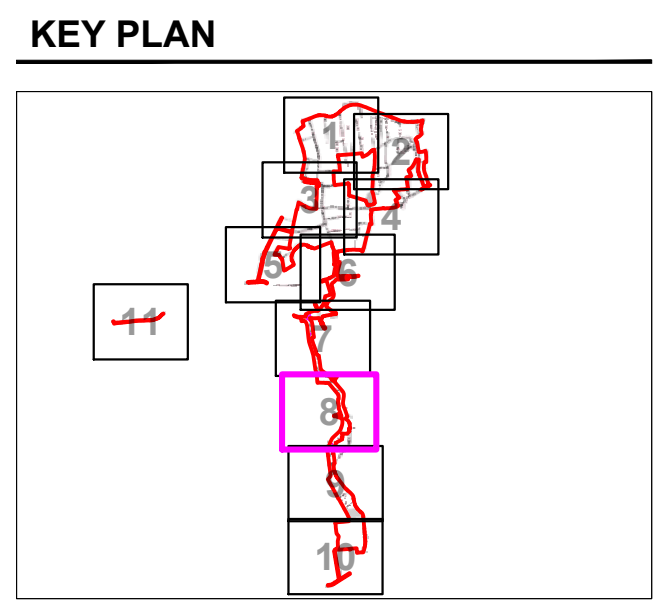


**PROJECT**  
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IR	DATE	DESCRIPTION

**DRAWING STATUS**  
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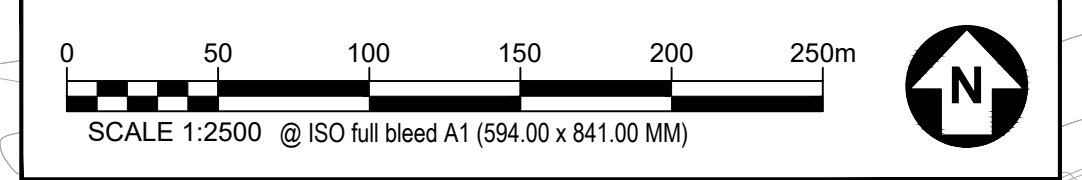
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**SHEET TITLE**  
TREE SHADING ARC PLAN (SHEET 08)

**SHEET NUMBER**      **REV.**  
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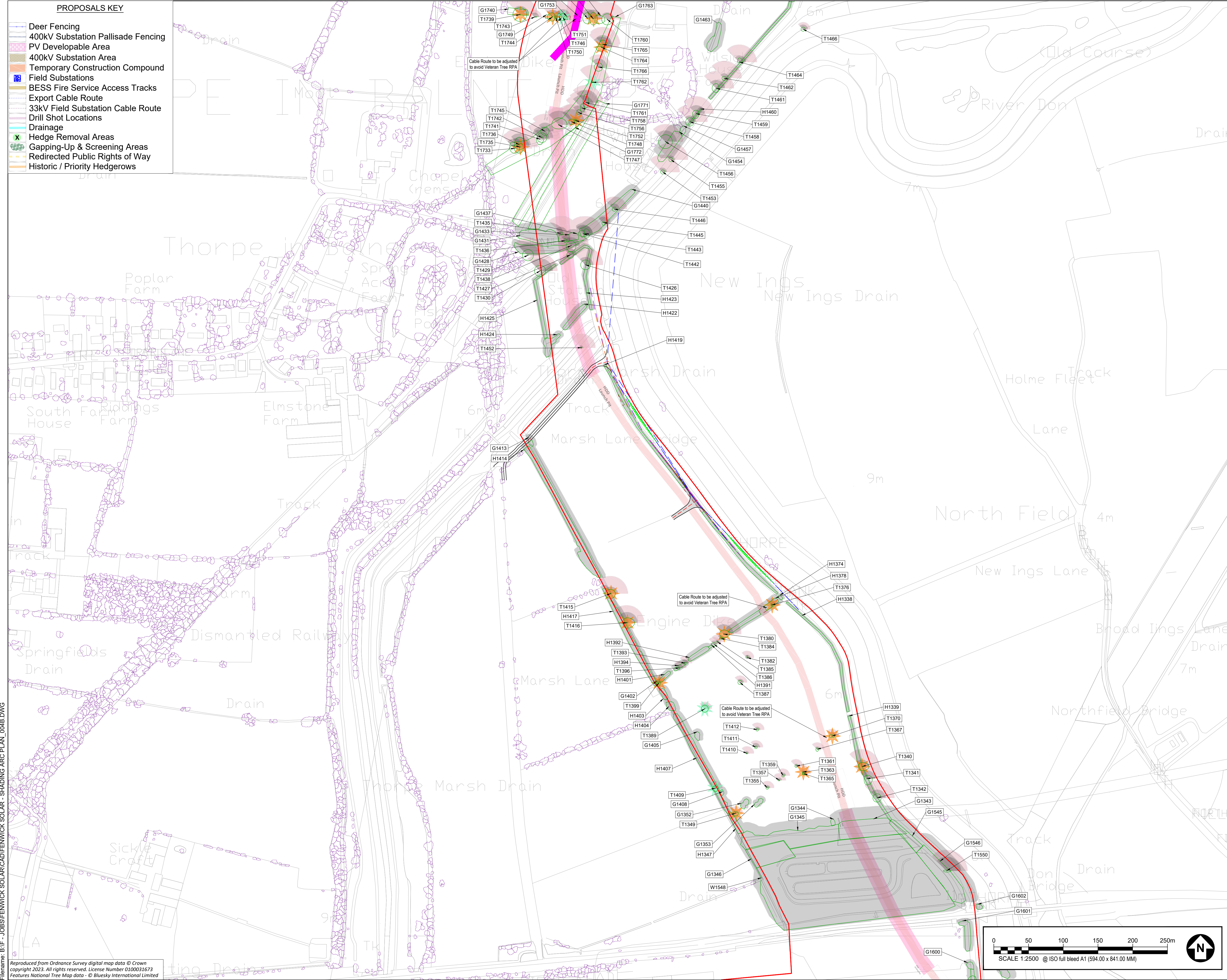
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Author: GA Designer: JB Checked: TR Approved: AW

PROPOSALS KEY

- Deer Fencing
- 400kV Substation Pallisade Fencing
- PV Developable Area
- 400kV Substation Area
- Temporary Construction Compound
- Field Substations
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- Drainage
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- Gapping-Up & Screening Areas
- Redirected Public Rights of Way
- Historic / Priority Hedgerows

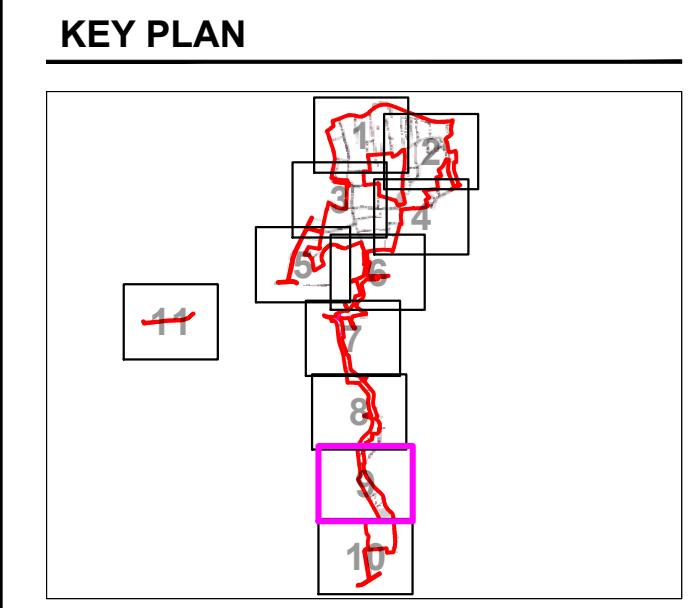


PROJECT  
FENWICK SOLAR FARM

CLIENT  
FENWICK SOLAR  
PROJECT LIMITED  
CONSULTANT

AECOM  
Plumfer House, Third Floor,  
East Wing, Tallyour Road  
Plymouth, PL6 5DH  
Tel +44(0)1752 676700  
Fax +44(0)870 238 6023  
www.aecom.com

- GENERAL NOTES
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60698207-ACM-HGM-MZ-CH-001 (Access Model P1.3\_28032024)\_Simplified.dwg  
FENW-Overall Layout-v4.5.1\_Simp3.dwg



- KEY
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ISSUE/REVISION

NO	DATE	DESCRIPTION
P01	14.08.24	FIRST ISSUE
IR	DATE	DESCRIPTION

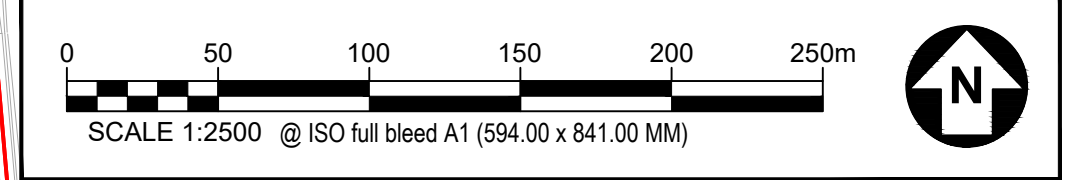
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ISSUE

PROJECT NUMBER  
60698207

SHEET TITLE  
TREE SHADING ARC PLAN  
(SHEET 09)

SHEET NUMBER  
60698207-ACM-XX-XX-AB-TSAP-009

REV.  
P01



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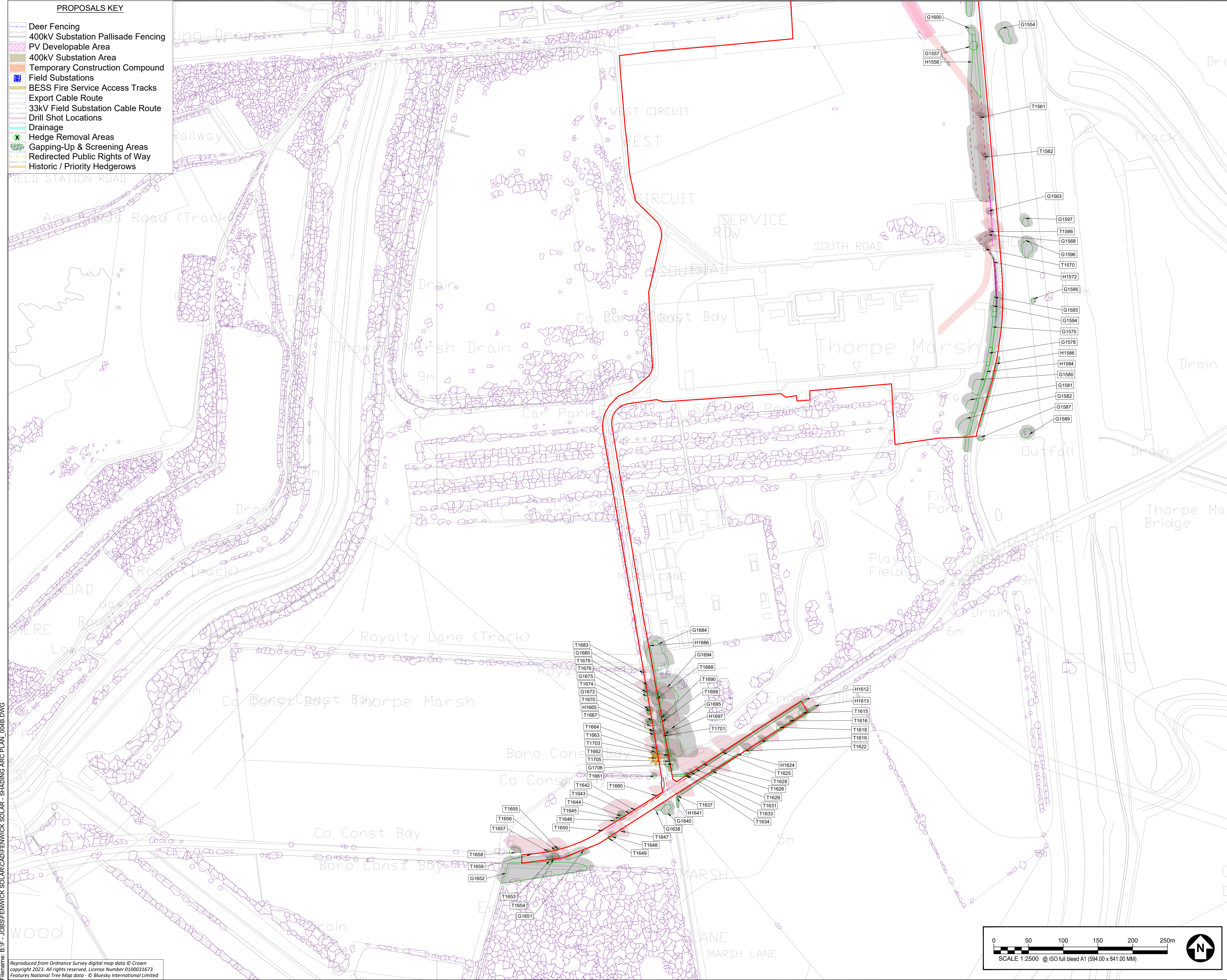
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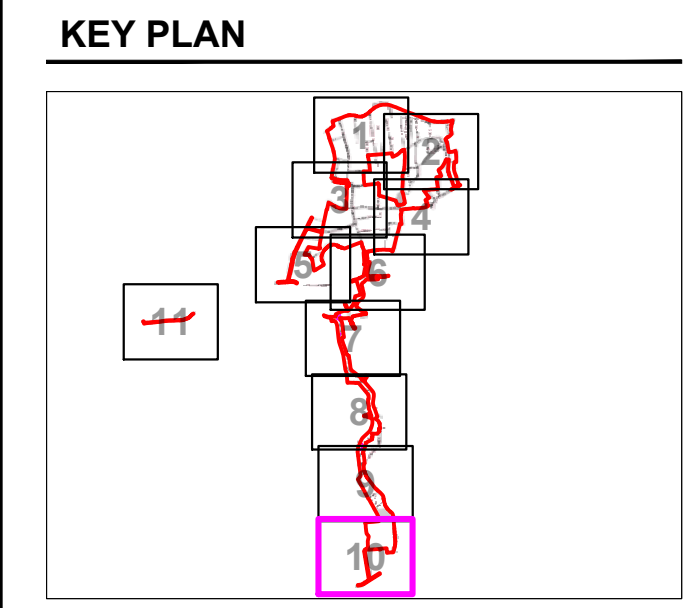


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**CLIENT**  
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**AECOM**  
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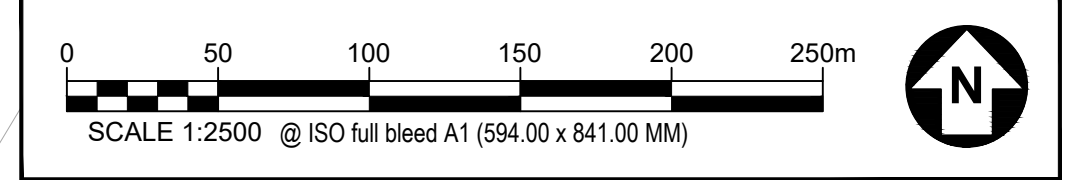
NO	DATE	DESCRIPTION
P01	14.08.24	FIRST ISSUE
IR	DATE	DESCRIPTION

**DRAWING STATUS**  
ISSUE

**PROJECT NUMBER**  
60698207

**SHEET TITLE**  
TREE SHADING ARC PLAN  
(SHEET 10)

**SHEET NUMBER** 60698207-ACM-XX-XX-AB-TSAP-010 **REV.** P01



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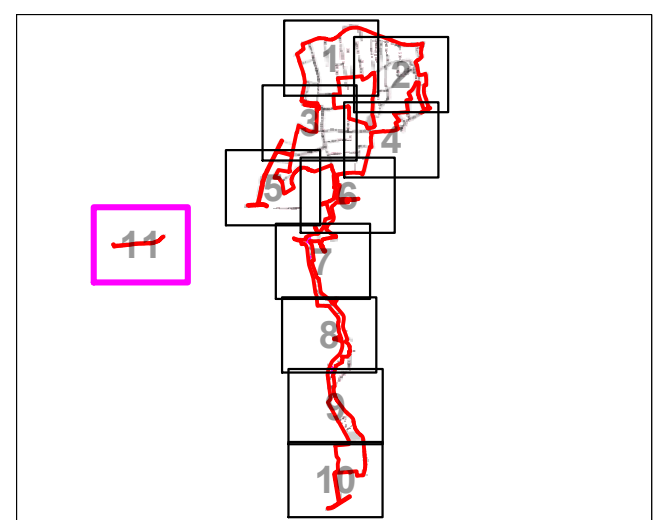
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**KEY PLAN**



**KEY**

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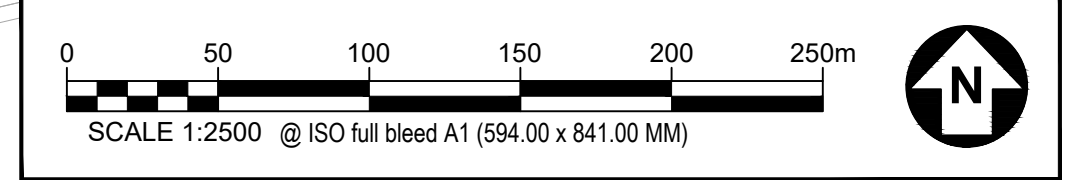
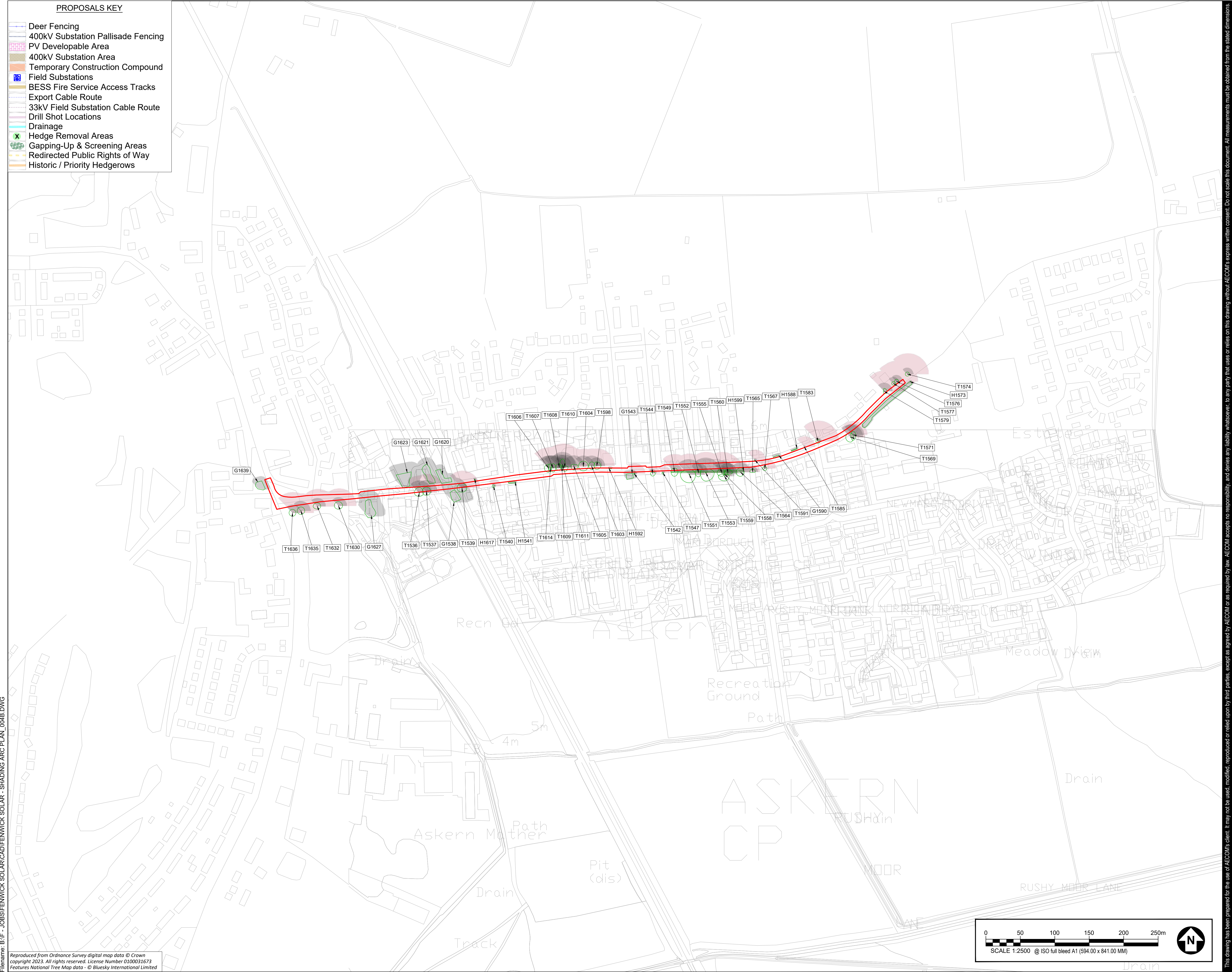
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**SHEET TITLE**

TREE SHADING ARC PLAN (SHEET 11)

**SHEET NUMBER**      **REV.**

60698207-ACM-XX-XX-AB-TSAP-011      P01



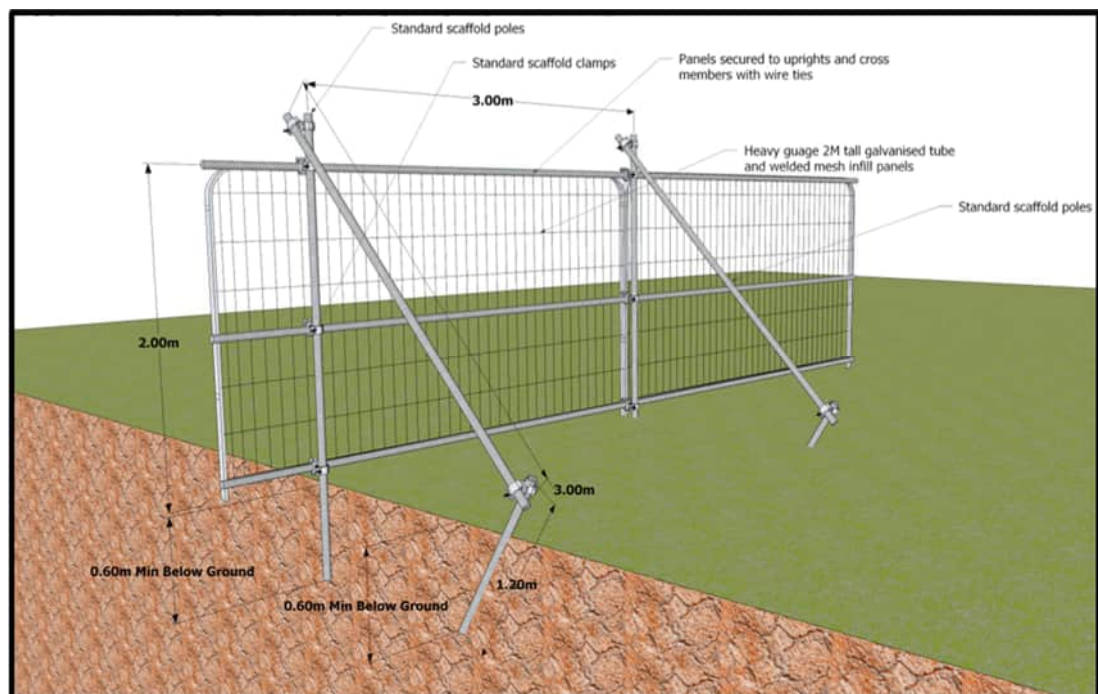
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## Annex E Outline Tree Protection Measures

### E.1 Tree Protection Fencing

- E.1.1 The default position as set out by BS 5837:2012 (Ref. 15) is that retained trees must be protected from construction operations with the erection of robust protective fencing positioned on the outer edge of the RPA or crown spread (whichever is greatest). All site operations will be restricted to the area outside of tree protection fencing and this area will form a Construction Exclusion Zone (CEZ) unless agreed otherwise. Protection measures will be installed as set out in the Tree Protection Plan (Annex C) of this appendix.
- E.1.2 The area inside the fence and any additional tree protection measures will be sacrosanct and must not be removed or altered without the prior approval of the City of Doncaster Council Tree Officer. Any damage to tree protection measures must be reported immediately.
- E.1.3 Fencing shall be constructed with robust vertical and horizontal scaffold framework with weldmesh panels firmly attached as per BS5837:2012 Figure 7 (Ref. 15) (included below). Vertical support poles and bracing poles must be located with care to avoid underground utility services and will be sited to avoid the structural roots of retained trees.
- E.1.4 Alternative equivalent robust and immovable fencing specification including site hoarding or site security fencing will also be appropriate.
- E.1.5 Suitable all weather signage will be fixed to fencing to notify site staff and visitors of the construction exclusion zone and its purpose (example included as Annex E).



**Plate 5: Default Specification for Protective Barrier**

- E.1.6 When entering and exiting the Order limits, the fencing contractor must avoid the production of ruts on the unprotected surface of the ground.
- E.1.7 Protective fencing and ground protection shall stay in place until all development operations have been completed and the prior consent of the

City of Doncaster Council Tree Officer and/or an arboriculturist has been obtained.

## **E.2 Ground Protection**

- E.2.1 Should access be unavoidable within the RPA of a retained tree, fit for purpose ground protection must be in place which is sufficient to protect the structure of the soil from damage based on the heaviest anticipated load.
- E.2.2 As set out in section 6.2.3.3 of BS5837:2012 (Ref. 15) the following ground protection measures will be appropriate:
- a. Suitable ground protection for pedestrian only access will comprise a single thickness of scaffold boards set on a compressible layer of 100mm of woodchip on a geotextile separation layer;
  - b. Pedestrian operated plant up to two tonnes in weight would require the use of a proprietary ground protection system (such as Ground Guards or Eve Trakway or equivalent) set on a minimum depth of 150mm woodchip or sharp sand; and
  - c. Heavier loads will require ground protection to an engineering specification in conjunction with arboricultural advice.
- E.2.3 As a guide the threshold beyond which root development is significantly affected is a bulk density ranging from 1.4g per cm<sup>3</sup> for clay soils, to 1.75g per cm<sup>3</sup> for sandy soils.
- E.2.4 Tree protective measures shall stay in place until all construction operations are completed and removal is agreed with an arboriculturist and/or the City of Doncaster Council Tree Officer as appropriate.

## **E.3 General Guidance for the Management of Exposed Roots**

- E.3.1 Excavation must only take place within the RPA of a retained tree with the prior agreement of an arboriculturist and the City of Doncaster Council Tree Officer. All excavation must be undertaken using hand tools or compressed air (such as an air spade).
- E.3.2 The following general principles will apply:
- a. Individual or small groups of roots less than 25 mm in diameter will be retained, where practicable, but can be severed with a sharp tool such as secateurs or pruning saws to leave a clean cut end (ideally 100mm back from the face of the excavation to account for future regrowth) where they pose an obstruction;
  - b. Where roots are encountered which are larger than 25 mm in diameter or where significant groups of smaller roots are found, the advice of an arboriculturist must be sought to decide an appropriate course of action (following consultation with the Local Authority Tree Officer where appropriate); and
  - c. Roots must only be exposed for the minimum period possible. In the interim period any exposed roots must be completely covered with dampened hessian sacking (which may require ongoing re wetting) to avoid drying out and exposure to light (which can result in the death of



roots). Backfill for excavations should utilise the parent material and must not be significantly compacted.

- E.3.3 Biosecurity measures should be applied as recommended in the Arboricultural Association (2018) Guidance Note 2 Application of Biosecurity in Arboriculture (Ref. 33).

## **E.4 Storage, Use and Mixing of Materials**

- E.4.1 The use, mixing, and washing of materials can lead to run off or inadvertent spillage into tree root zones. Many substances often used on construction sites can be toxic to tree roots (such as concrete, fuels, salts, builders sand and herbicides), can result in the death of tree roots and beneficial soil organisms; and have a significant impact on the future health and appearance of trees.
- E.4.2 The storage of materials can result in an effective raised soil level. This buries tree roots at depths where air and water are less available and can lead to the decline or death of the tree.
- E.4.3 For these reasons the storage of materials and any washing, mixing or refuelling must take place in agreed allocated areas at least 5m from the edge of the RPA of retained trees.
- E.4.4 Any slope effect must be taken into account and where there is a potential for run off, heavy duty polythene sheeting and sandbags must be in place as bunding to prevent toxic materials reaching RPAs.



## Annex F Tree Protection Signage (Example)







BUILD | OWN | OPERATE | MAINTAIN

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