

## Heckington Fen Solar Park

EN010123

### Figure 4.26 Figure 4.26 400kV Bicker Fen NG Substation Layout and Section Details

Applicant: Ecotricity (Heck Fen Solar) Limited

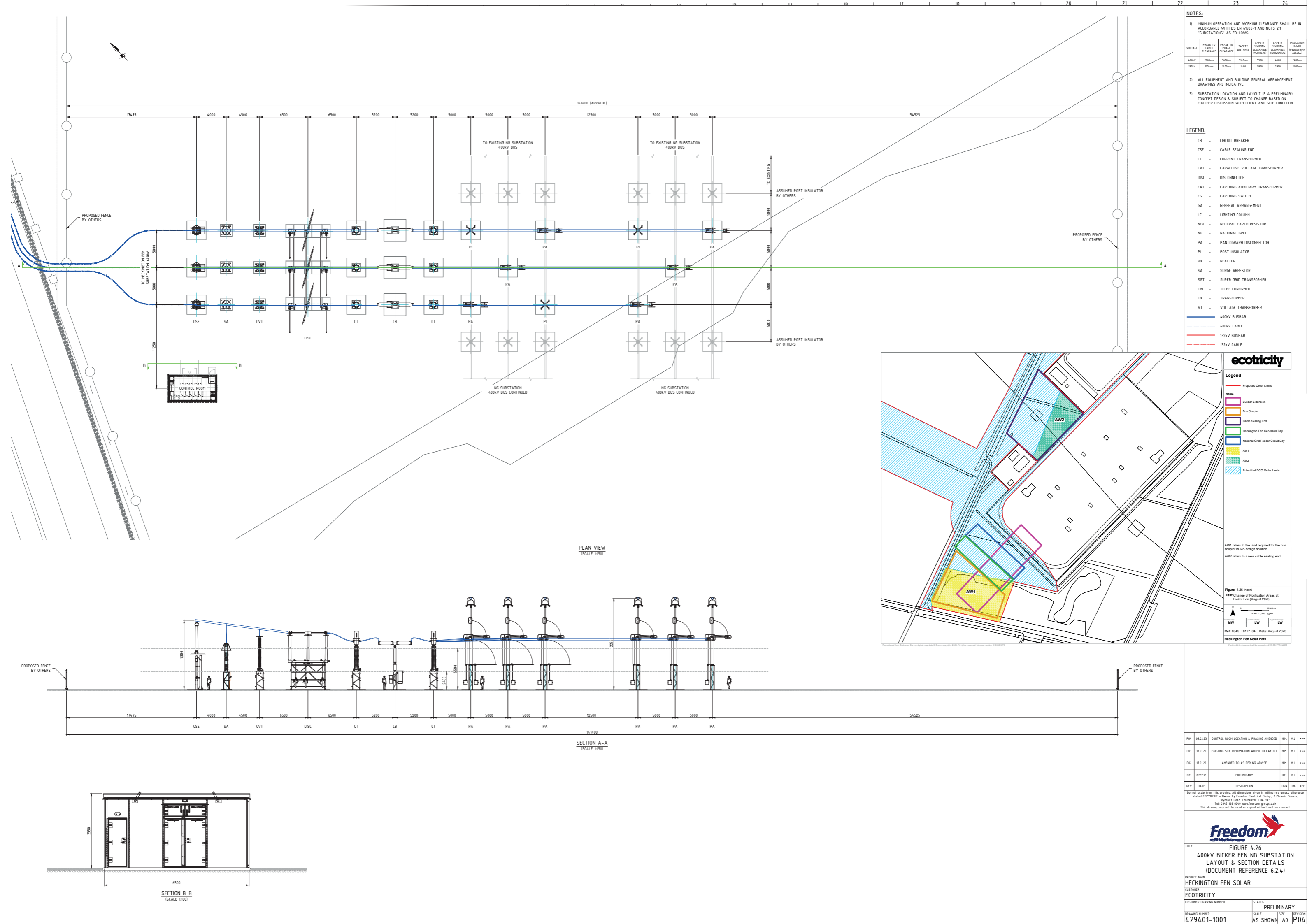
Document Reference: Pre-ExA.ChangeApp.ESFIG4.26.V1

Pursuant to: APFP Regulation 5(2)(a)

Document Revision: 2

August 2023





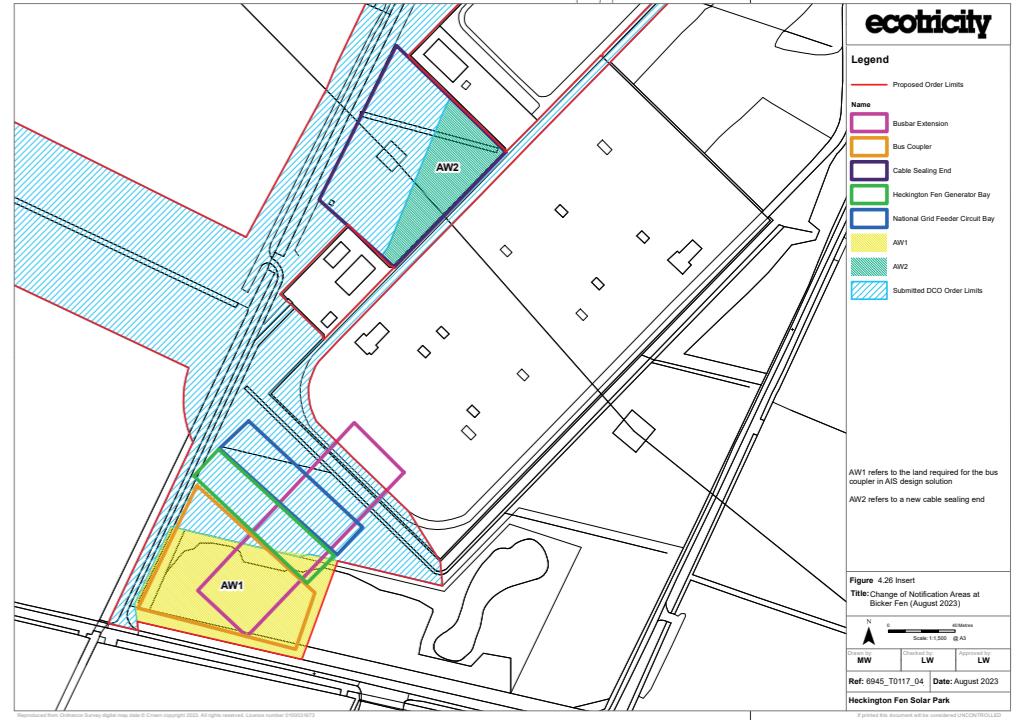
**NOTES:**

- MINIMUM OPERATION AND WORKING CLEARANCE SHALL BE IN ACCORDANCE WITH BS EN 47936-1 AND NGTS 2.1 "SUBSTATIONS" AS FOLLOWS:

VOLTAGE	PHASE TO EARTH CLEARANCE	PHASE TO PHASE CLEARANCE	SAFETY DISTANCE	SAFETY WORKING CLEARANCE (VERTICAL)	SAFETY WORKING CLEARANCE (HORIZONTAL)	INSULATION HEIGHT (PROTECTIVE ACCESS)
400kV	2800mm	3000mm	3500mm	5500	4600	2400mm
132kV	1800mm	1400mm	1400	3800	2900	2400mm

- ALL EQUIPMENT AND BUILDING GENERAL ARRANGEMENT DRAWINGS ARE INDICATIVE.
- SUBSTATION LOCATION AND LAYOUT IS A PRELIMINARY CONCEPT DESIGN & SUBJECT TO CHANGE BASED ON FURTHER DISCUSSION WITH CLIENT AND SITE CONDITION.

- LEGEND:**
- CB - CIRCUIT BREAKER
  - CSE - CABLE SEALING END
  - CT - CURRENT TRANSFORMER
  - CVT - CAPACITIVE VOLTAGE TRANSFORMER
  - DISC - DISCONNECTOR
  - EAT - EARTHING AUXILIARY TRANSFORMER
  - ES - EARTHING SWITCH
  - GA - GENERAL ARRANGEMENT
  - LC - LIGHTING COLUMN
  - NER - NEUTRAL EARTH RESISTOR
  - NG - NATIONAL GRID
  - PA - PANTOGRAPH DISCONNECTOR
  - PI - POST INSULATOR
  - RX - REACTOR
  - SA - SURGE ARRESTOR
  - SGT - SUPER GRID TRANSFORMER
  - TBC - TO BE CONFIRMED
  - TX - TRANSFORMER
  - VT - VOLTAGE TRANSFORMER
- 400kV BUSBAR  
— 400kV CABLE  
— 132kV BUSBAR  
— 132kV CABLE



PLAN VIEW  
 (SCALE 1:150)

SECTION A-A  
 (SCALE 1:50)

SECTION B-B  
 (SCALE 1:100)

REV	DATE	DESCRIPTION	DRN	CHK	APP
P04	09.02.23	CONTROL ROOM LOCATION & PHASING AMENDED	H.M.	V.J.	...
P03	17.01.22	EXISTING SITE INFORMATION ADDED TO LAYOUT	H.M.	V.J.	...
P02	17.01.22	AMENDED TO AS PER NG ADVISE	H.M.	V.J.	...
P01	07.12.21	PRELIMINARY	H.M.	V.J.	...

Do not scale from this drawing. All dimensions given in millimetres unless otherwise stated. COPYRIGHT - Owned by Freedom Electrical Design, 3 Phoenix Square, Weymouth Road, Colchester, CO1 1AS. Tel: 0845 888 8842 www.freedom-grid.co.uk. This drawing may not be used or copied without written consent.



**TITLE**  
 FIGURE 4.26  
 400kV BICKER FEN NG SUBSTATION  
 LAYOUT & SECTION DETAILS  
 (DOCUMENT REFERENCE 6.2.4)

**PROJECT NAME**  
 HECKINGTON FEN SOLAR

**CUSTOMER**  
 ECOTICITY

**CUSTOMER DRAWING NUMBER**  
 429401-1001

STATUS	SCALE	SIZE	REVISION
PRELIMINARY	AS SHOWN	A0	PO