

Light Valley Solar

Environmental Statement Volume 3

Appendix 2.2: Indicative Engineering Drawings and Sections

Document Reference: EN0110012/APP/LVS/06.03.02.02

June 2026
Version 2

APFP Regulation 5(2)(a)
Volume: 6



Light Valley
Solar

Infrastructure Planning

Planning Act 2008

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

Light Valley Solar

DCO Submission

Appendix 2.2: Indicative Engineering Drawings and Sections

Regulation Reference	APFP Regulation 5(2)(a)
Planning Inspectorate Case Reference	EN0110012
Application Document Reference	EN0110012/APP/LVS/06.03.02.02
Author	Light Valley Solar Limited

Version	Date	Status of Version
Issue 1.0	February 2026	DCO Submission
Issue 2.0	June 2026	Deadline A Submission

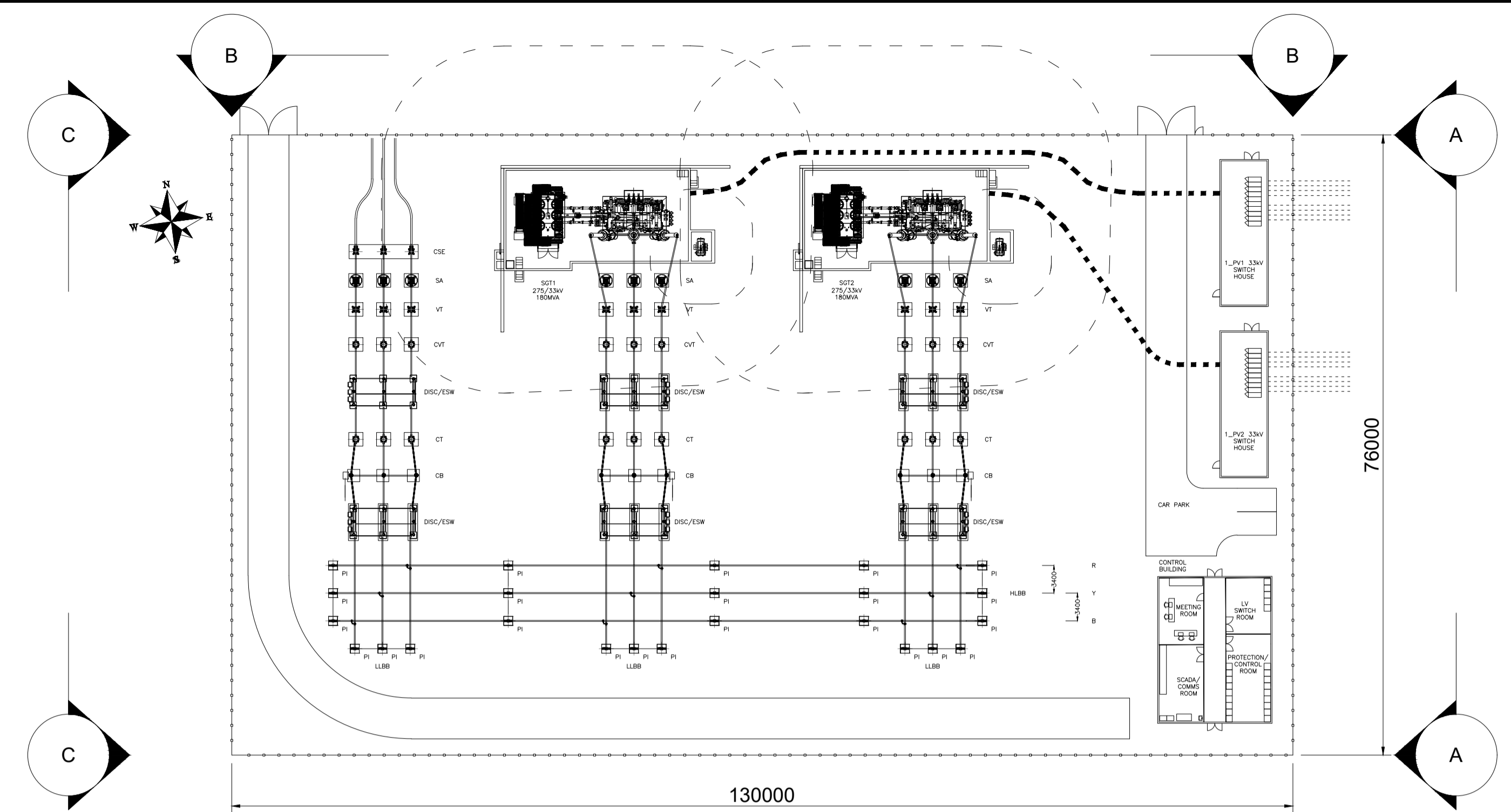
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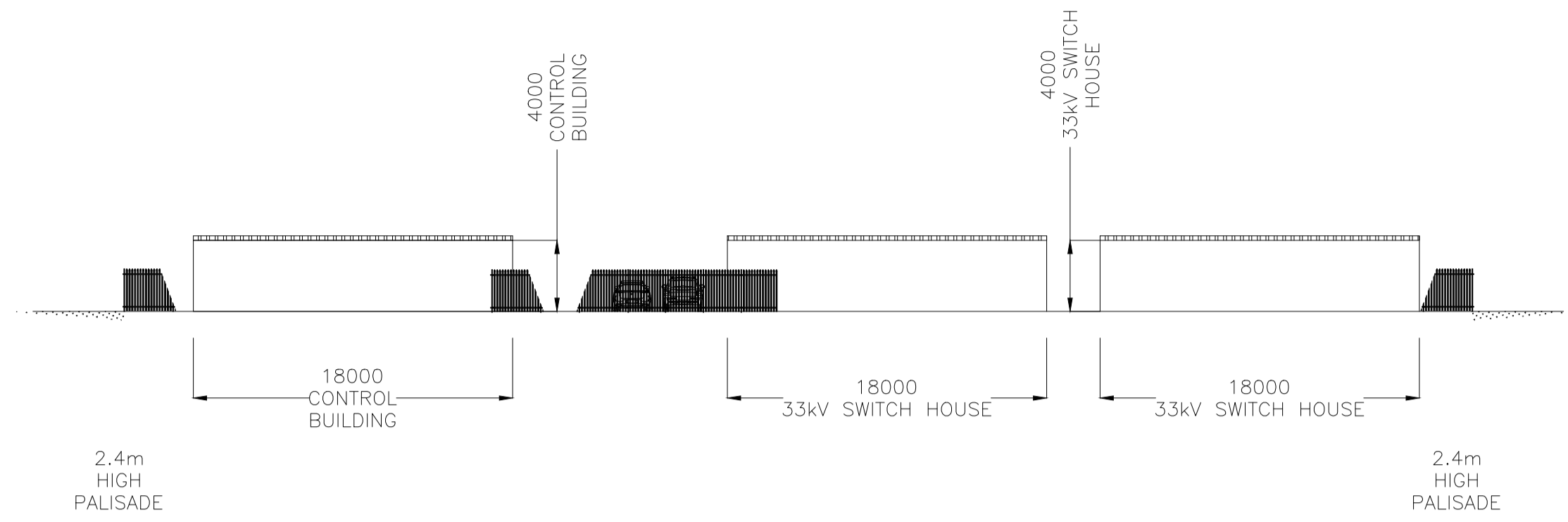
1 275 kV Substation Layout and Elevation – Solar Development Site 1

REFERENCE DRAWINGS:
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 UF00087-8300-0013DS2
 UF00087-8300-0014DS2

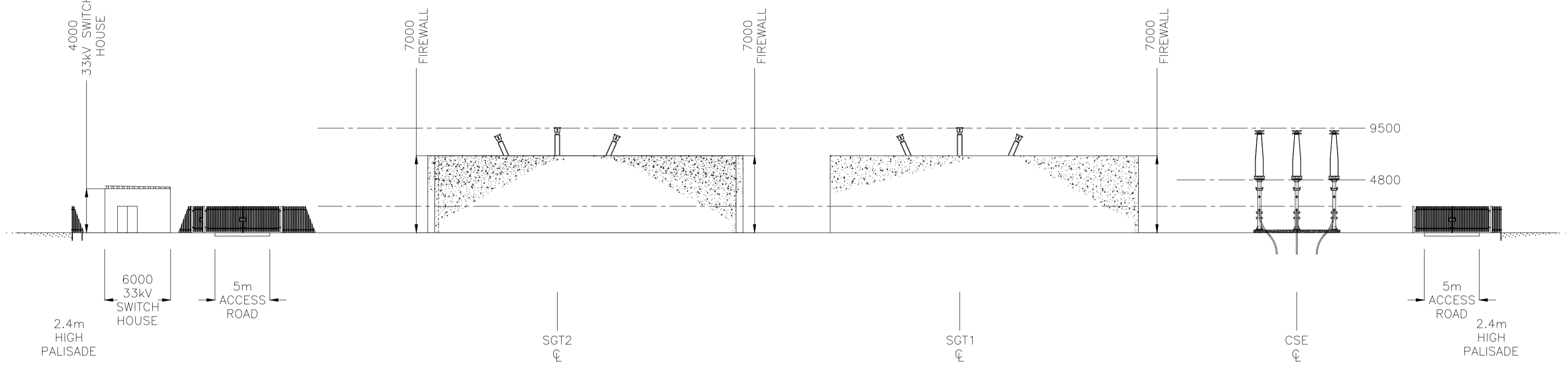
- ALL INFORMATION ON THIS DRAWING IS INDICATIVE ONLY, AND MAY BE SUBJECT TO FURTHER DESIGN DEVELOPMENT.
DO NOT SCALE
- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES.
 2. ALL CIVIL DESIGN ASPECTS ARE INDICATIVE.
 3. NO MITIGATION AGAINST FLOOD RISK HAS BEEN INCLUDED FOR SWITCHGEAR STRUCTURES OR BUILDING(S) AND IS SUBJECT TO TOPOGRAPHICAL SURVEY AND FLOOD RISK ASSESSMENT.
 4. THE PRESENCE OF EXISTING UTILITIES, BURIED SERVICES, AND UXO ARE TO BE INVESTIGATED.
 5. DETAILED SPECIFICATION FOR EQUIPMENT IS TO BE COMPLETED.
 6. THE ELECTRICAL CLEARANCES ARE BASED ON BS EN 61936. WHERE APPLICABLE, ELECTRICAL CLEARANCES APPROPRIATE FOR THE CONNECTING TRANSMISSION NETWORK SHOULD BE FOLLOWED.
 7. THE PROVISION OF A STANDBY DIESEL GENERATOR AND DNO NETWORK AUXILIARY SUPPLY IS TO BE CONFIRMED AND REFLECTED IN THE LAYOUT AS REQUIRED.
 8. THE REQUIREMENT FOR HARMONIC COMPENSATION EQUIPMENT IS TO BE CONFIRMED AND REFLECTED IN THE LAYOUT AS REQUIRED.
 9. THE REQUIREMENT FOR ELECTRIC FENCING IS TO BE CONFIRMED AND REFLECTED IN THE LAYOUT AND SECTION VIEWS.
 10. MAXIMUM BUILDING DIMENSIONS
 CONTROL BUILDING - 15m x 32.5m (LxW) x 4m AGL
 33kV SWITCH HOUSES - 7m x 18m (LxW) x 4.2m AGL
 MAXIMUM AREA FOR SUBSTATION DEVELOPMENT WITHIN SITE: 130m x 78m (1 Ha)
 11. THE REQUIREMENT FOR SHUNT REACTOR EQUIPMENT IS TO BE CONFIRMED & REFLECTED IN LAYOUT AS REQUIRED



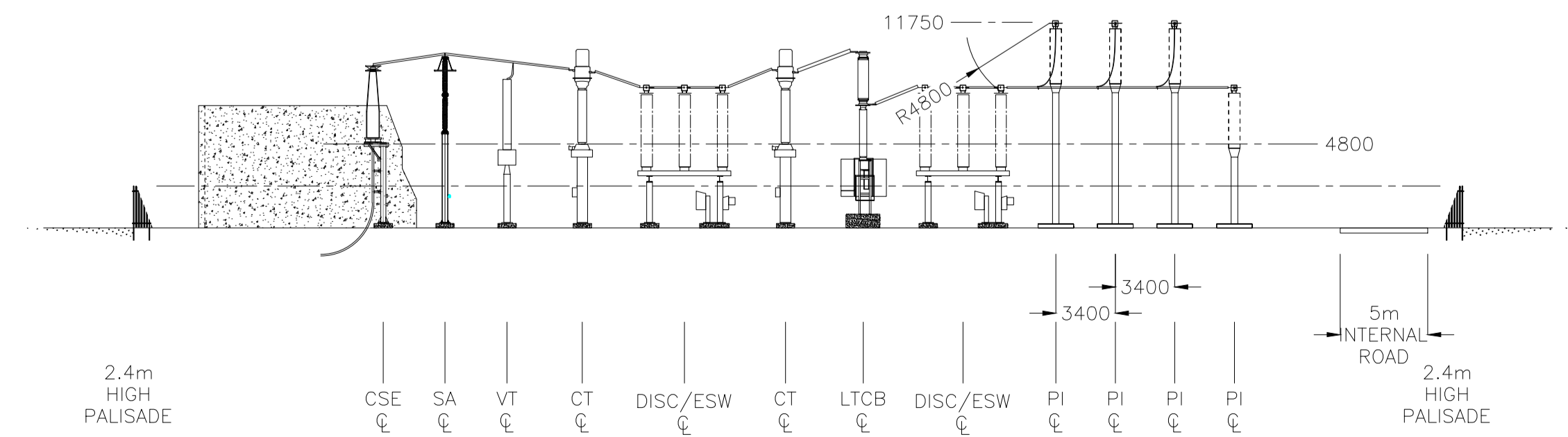
SITE 4 SUBSTATION
 PLAN VIEW
 1 : 500



SECTION VIEW A-A
 1 : 300



SECTION VIEW B-B
 1 : 300



SECTION VIEW C-C
 1 : 300

INDICATIVE

R1.0	FOR PLANNING	DS2	DTW	DS2	02.02.26
REV	DETAILS OF REVISION	DRAWN	CHECKED	APPROVED	DATE

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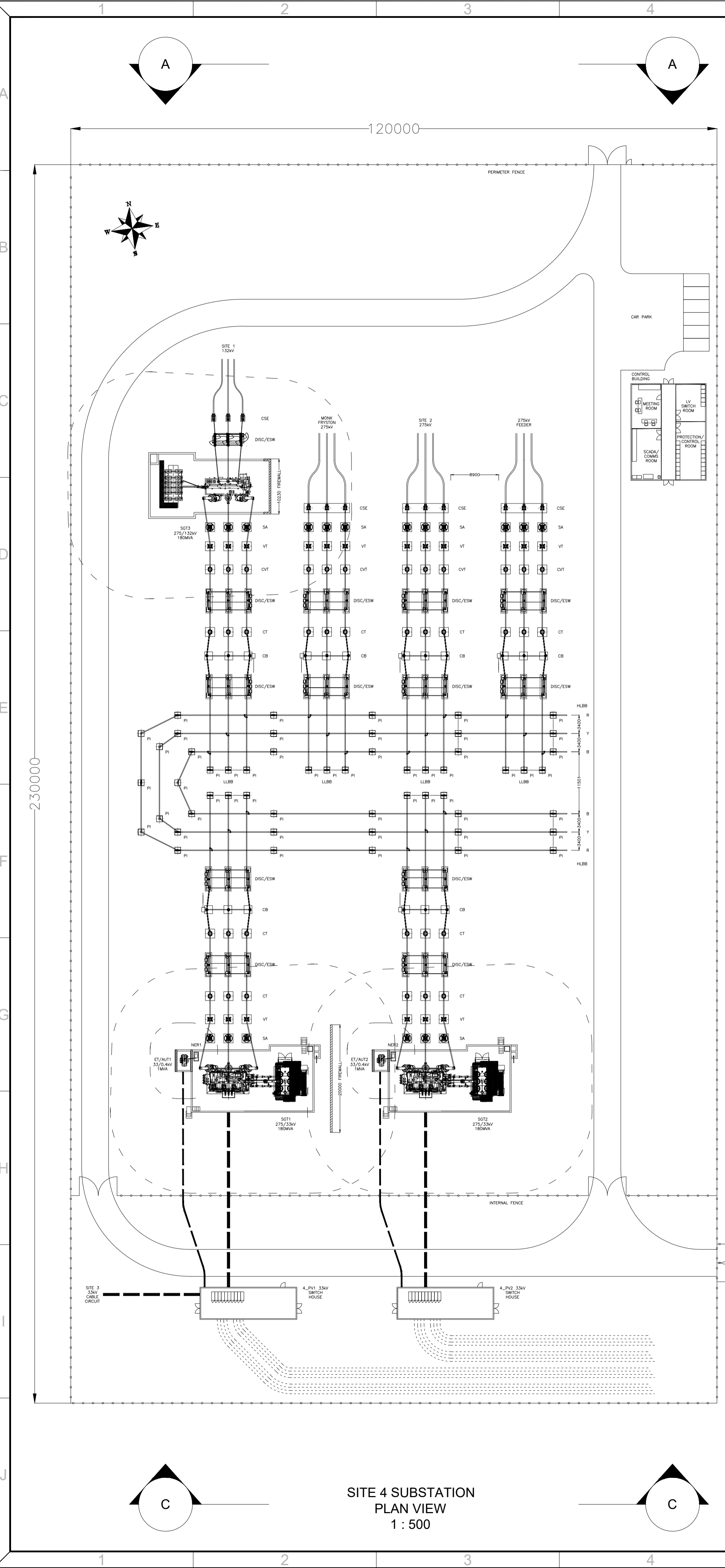
Kingsgate, Wellington Road North, Stockport, Cheshire, SK4 1LW
 Tel: 0161 476 0032, Website: www.fichtner.co.uk

CLIENT: ISLAND GREEN POWER
 SITE: SITE 1
 PROJECT: LIGHT VALLEY
 TITLE: SITE 1
 275KV SUBSTATION LAYOUT &
 ELEVATIONS

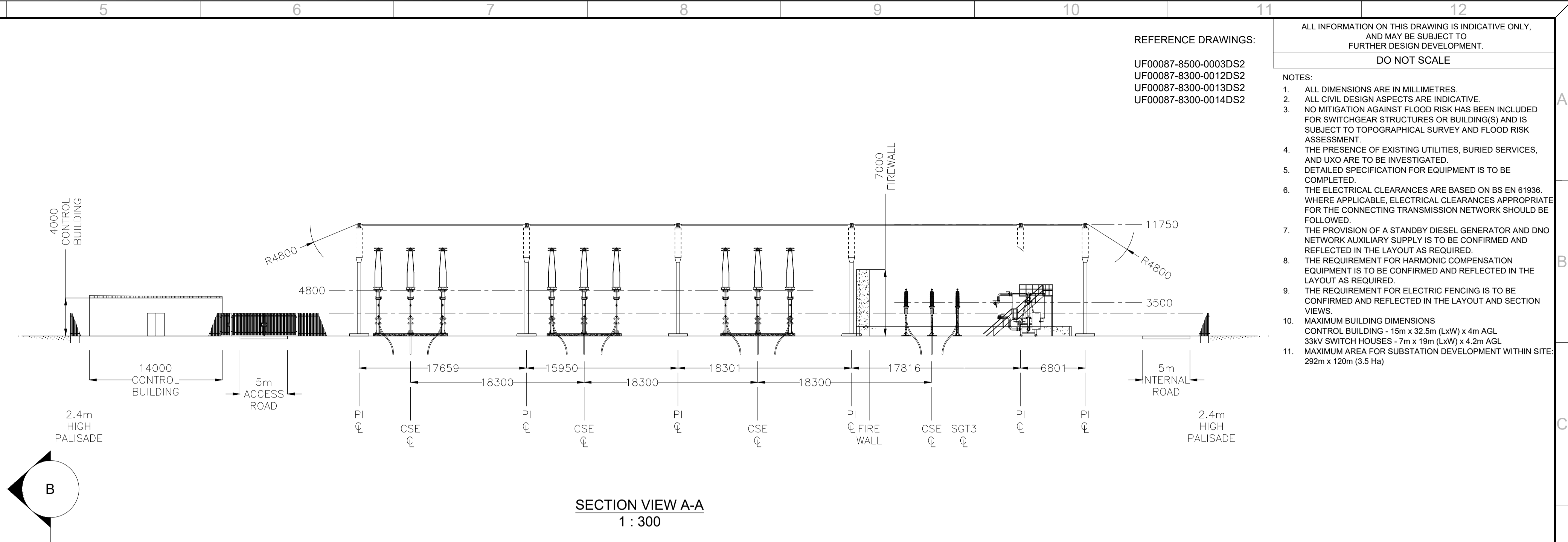
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CHECKED BY: DTW	DATE: 02.02.26
APPROVED BY: DS2	DATE: 02.02.26
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SHEET SIZE: A1	SCALE: 500:1, 300:1
DRAWING No.: UF00087-8300-0014DS2	REVISION: R1.0

2 275 kV Substation Layout and Elevation – Solar Development Site 2

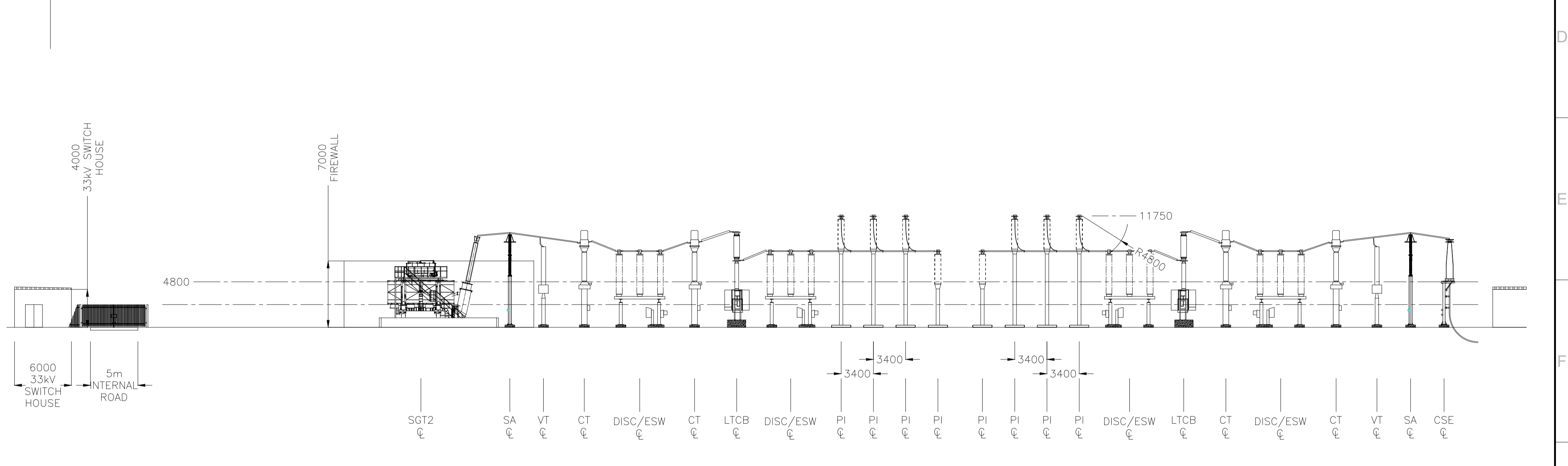
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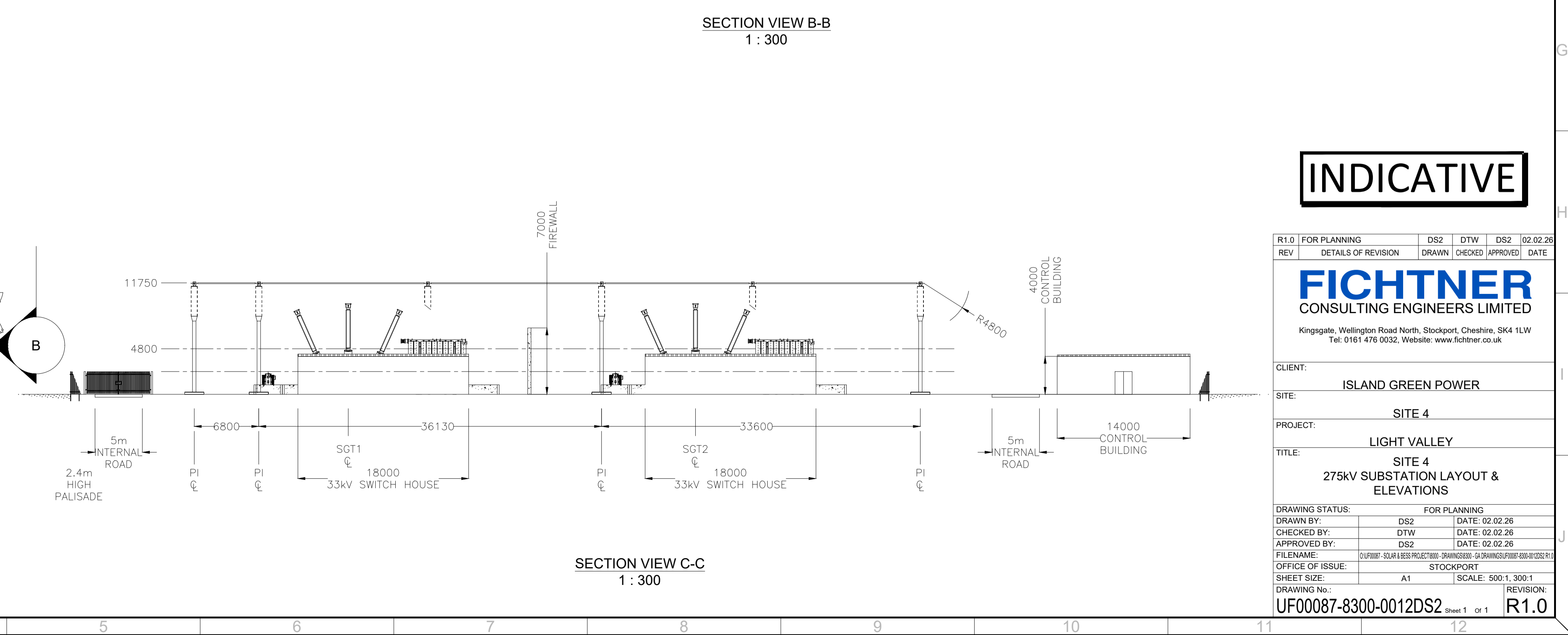
**SITE 4 SUBSTATION
PLAN VIEW
1 : 500**



**SECTION VIEW A-A
1 : 300**



**SECTION VIEW B-B
1 : 300**



**SECTION VIEW C-C
1 : 300**

- REFERENCE DRAWINGS:**
 UF00087-8500-0003DS2
 UF00087-8300-0012DS2
 UF00087-8300-0013DS2
 UF00087-8300-0014DS2
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 10. MAXIMUM BUILDING DIMENSIONS
 CONTROL BUILDING - 15m x 32.5m (LxW) x 4m AGL
 33kV SWITCH HOUSES - 7m x 15m (LxW) x 4.2m AGL
 11. MAXIMUM AREA FOR SUBSTATION DEVELOPMENT WITHIN SITE: 292m x 120m (3.5 Ha)

INDICATIVE

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REV	DETAILS OF REVISION	DRAWN	CHECKED	APPROVED	DATE

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 Tel: 0161 476 0032, Website: www.fichtner.co.uk

CLIENT: ISLAND GREEN POWER
 SITE: SITE 4
 PROJECT: LIGHT VALLEY
 TITLE: SITE 4 275kV SUBSTATION LAYOUT & ELEVATIONS

DRAWING STATUS: FOR PLANNING	
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CHECKED BY: DTW	DATE: 02.02.26
APPROVED BY: DS2	DATE: 02.02.26
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SHEET SIZE: A1	SCALE: 500:1, 300:1
DRAWING No.: UF00087-8300-0012DS2	REVISION: R1.0

4 Transformer Typical General Arrangement

REFERENCE DRAWINGS:

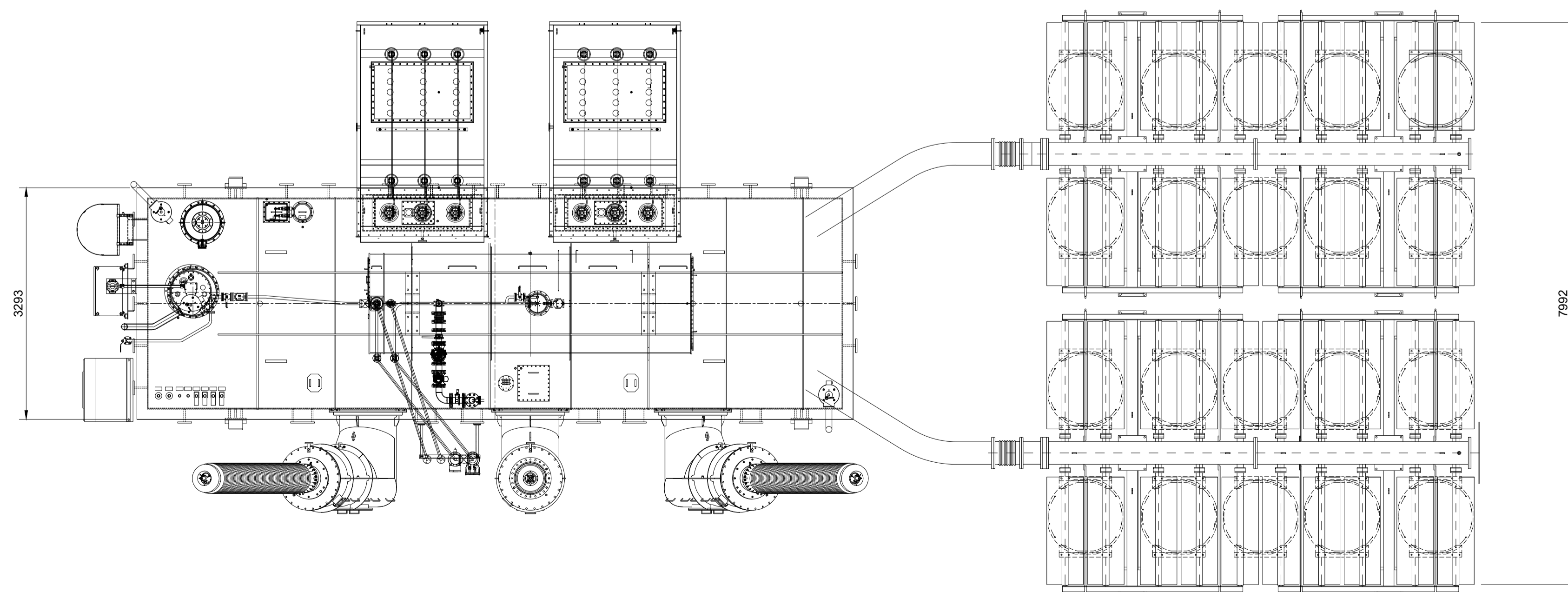
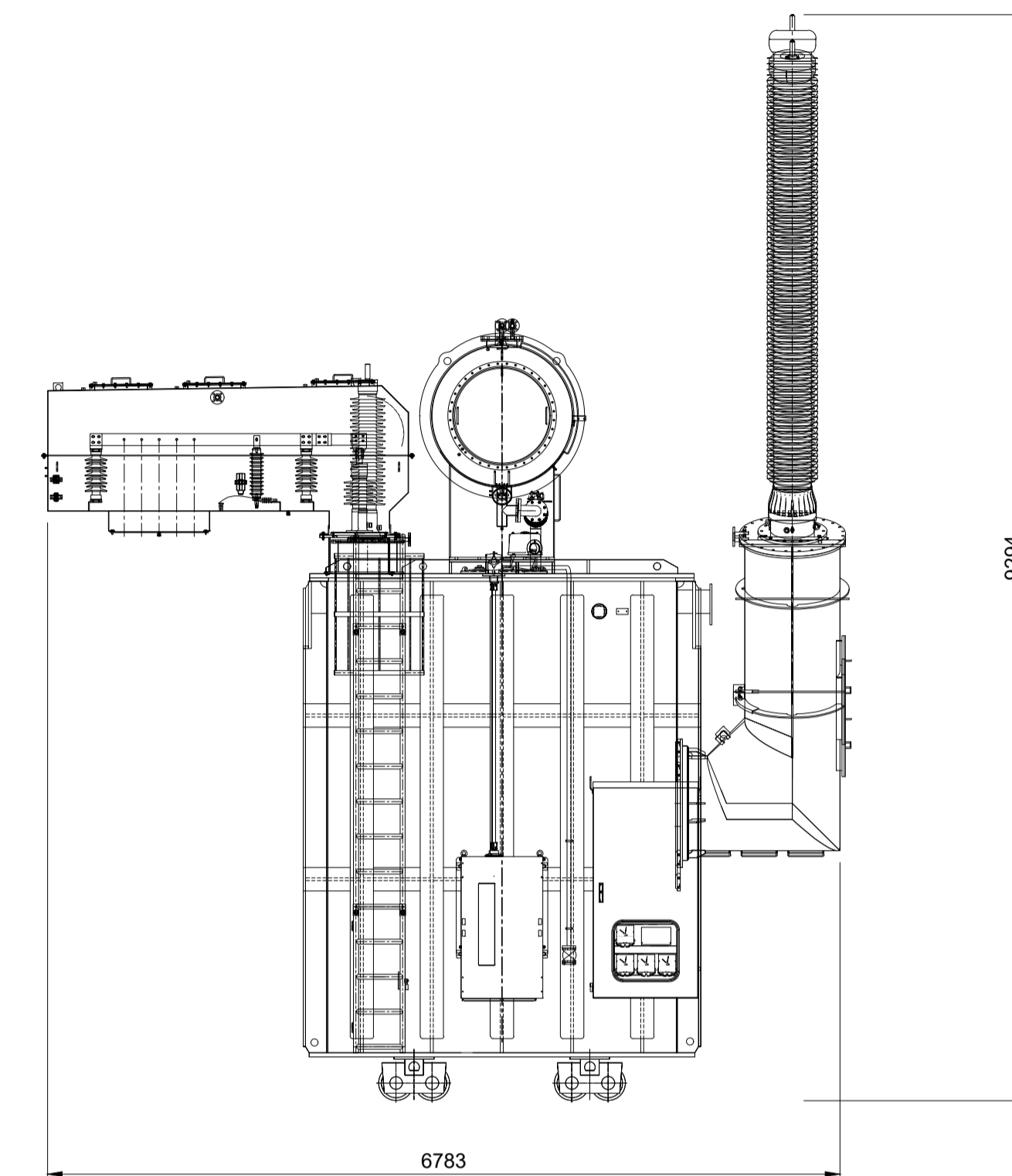
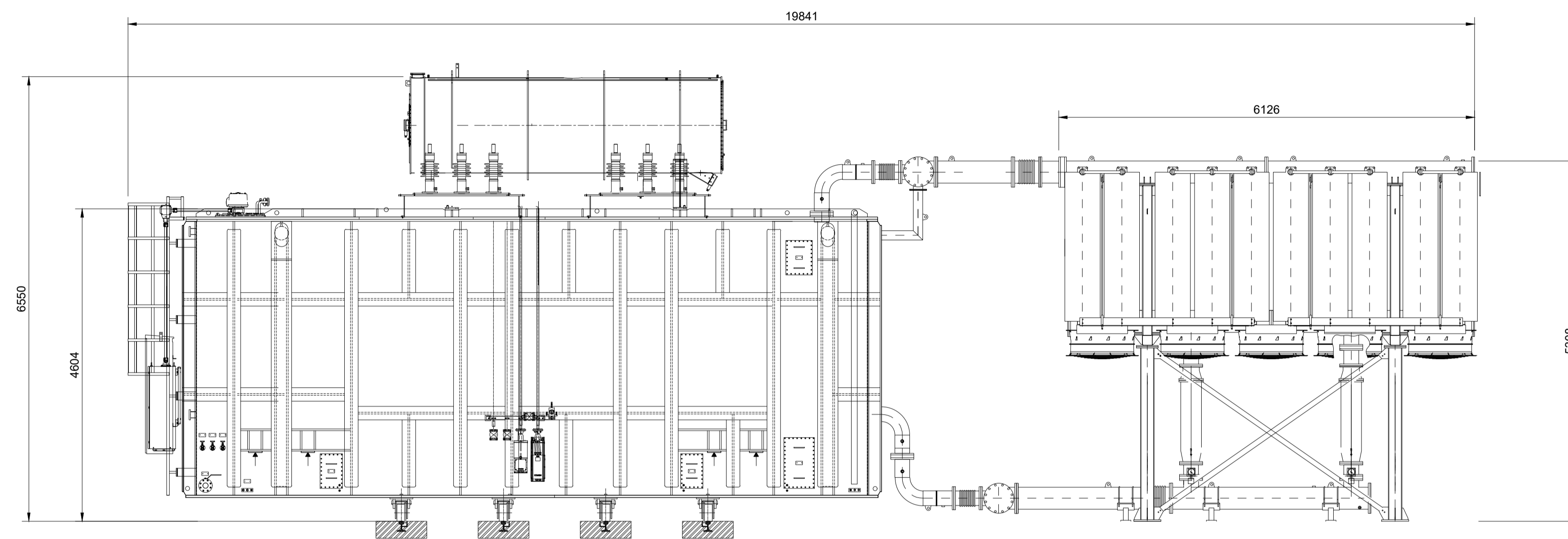
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 AND MAY BE SUBJECT TO
 FURTHER DESIGN DEVELOPMENT.

DO NOT SCALE

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. DIMENSIONS ARE INDICATIVE. TRANSFORMER SPECIFICATION AND DESIGN IS TO BE CONFIRMED AND OVERALL DIMENSIONS CONFIRMED.
3. APPROXIMATE EXPECTED TRANSPORT WEIGHT (140-170 TONNES), TO BE CONFIRMED.



INDICATIVE

R2.0	FOR PLANNING	DS2	DTW	DS2	05.02.26
R1.0	FOR PLANNING	DS2	DTW	DS2	02.02.26
REV	DETAILS OF REVISION	DRAWN	CHECKED	APPROVED	DATE

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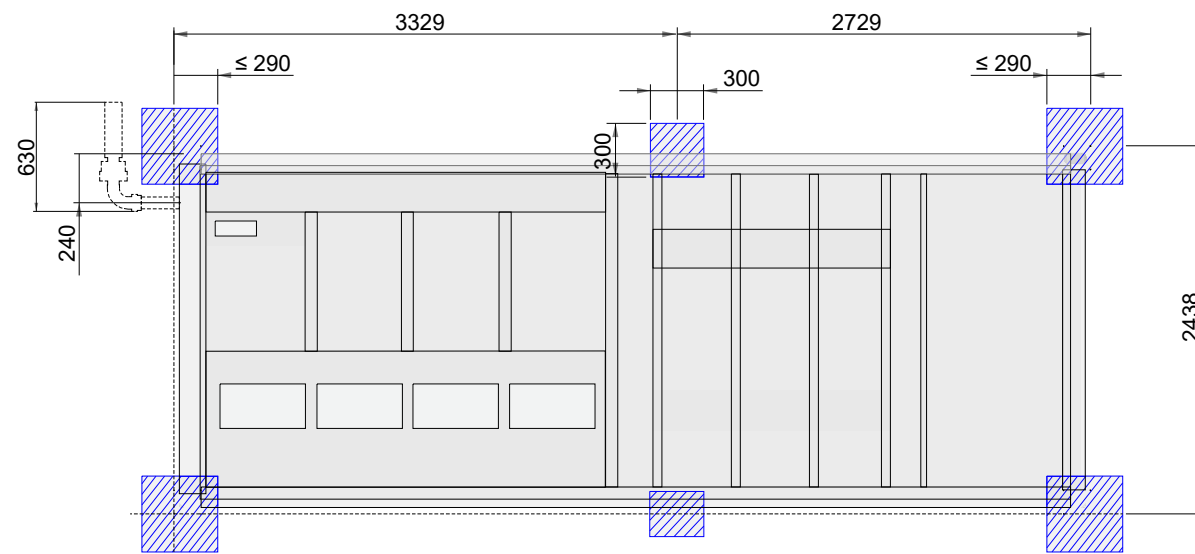
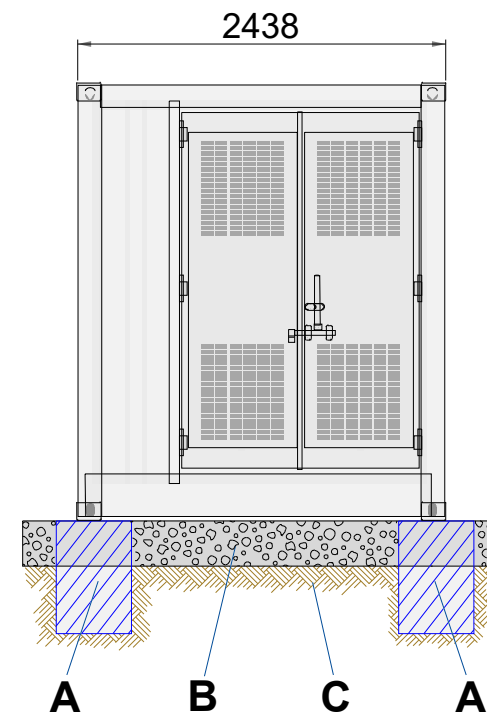
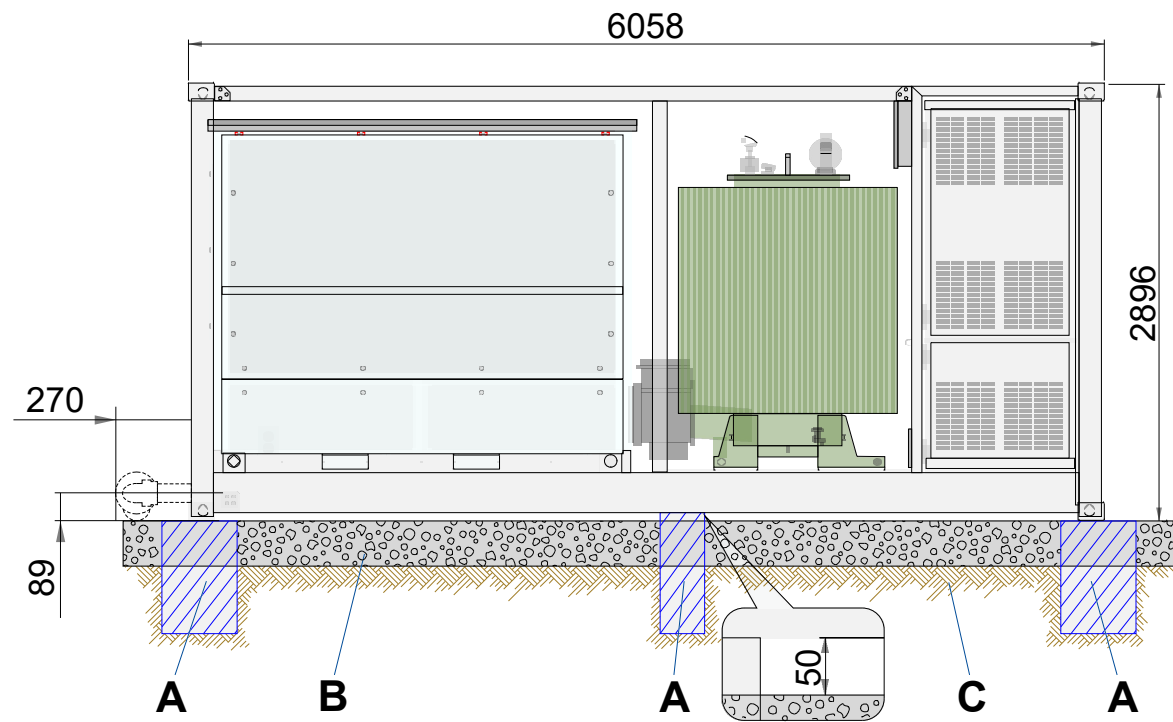
CLIENT: ISLAND GREEN POWER
 SITE:
 PROJECT: LIGHT VALLEY
 TITLE: 275/33/33 kV 180 MVA ONAF TRANSFORMER
 TYPICAL GENERAL ARRANGEMENT

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CHECKED BY: DTW	DATE: 02.02.26
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OFFICE OF ISSUE: STOCKPORT	
SHEET SIZE: A1	SCALE: 100:1
DRAWING No.: UF00087-8300-0015DS2	REVISION: R2.0

5 Illustrative Drawings of Solar PV Concrete Feet and Mounting Structure

- 5.1.1 The second figure shown below illustrates the use of one panel '1P' tracker panels with a height of 3.5m. This configuration has been selected for illustrative purposes because it is compatible with concrete footings. In contrast, two panel 2P' tracker panels —up to 4.5m high—are not compatible with the concrete feet.

6 Illustrative Drawing of Conversion Unit



General Legend:

A	Support Point Foundation
B	Pea Gravel Ground
C	Solid Ground, e.g. Gravel



Project: Light Valley Solar

Project Location: Land by West Haddlesley, Selby District of North Yorkshire, YO8 8PY, England

Ownership: Light Valley Solar Limited

Document Title: Power Conversion Unit

Sheet format: A3 420 x 297" Scale: 1:50

Document amendments:	v.1	03/03/2025	M.N.	Comments

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