

Environmental Statement: Technical Appendix 3.1 – Detailed Plans

ES TA 3.1

Development of National Significance

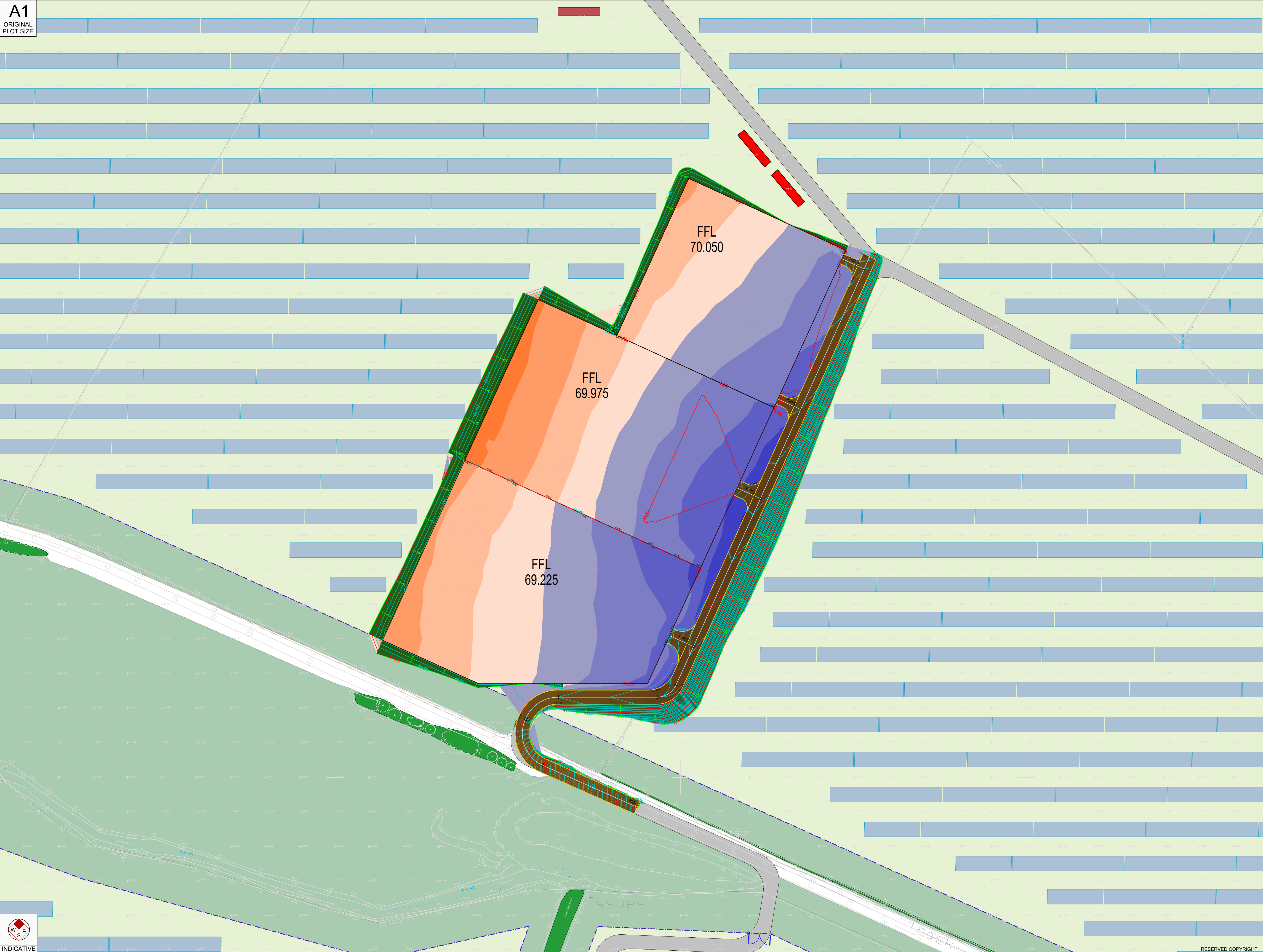
Alaw Môn Solar Farm

Land west of the B5112, 415m south of Llyn Alaw, 500m east of Llantrisant and 1.5km west of Llannerch-y-Medd, Anglesey

February 2024



A1
ORIGINAL
PLOT SIZE



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LEGEND:

FFL Finished Floor Level
Retaining Wall - Fencing
Levels
RTWXX Indicative Retaining Wall Height
Gradient Extent

Height Bands	Cut Volume	Fill Volume
Fill 2.8m - 3.5m	--	--
Fill 2.1m - 2.8m	--	31.01m³
Fill 1.4m - 2.1m	--	489.36m³
Fill 0.7m - 1.4m	--	1648.88m³
Fill 0m - 0.7m	--	3437.05m³
Cut 0m - 0.7m	4311.59m³	--
Cut 0.7m - 1.4m	2449.22m³	--
Cut 1.4m - 2.1m	982.95m³	--
Cut 2.1m - 2.8m	305.74m³	--
Cut 2.8m - 3.5m	23.86m³	--
Cut 3.5m - 4.2m	--	--
Total Cut: 8073.36m³		
Total Fill: 5606.29m³		

C	18.10.28	Updated to suit site layout	NR	RC	RR
B	24.02.22	Update to show gradient instead of retaining walls	NR	RC	RR
A	14.02.22	Updated to reduce retaining wall height	NR	RC	RR

Rev Date Details Drawn By Checked By Approved By

Bristol
Cambridge
London
Manchester
Oxford
Welwyn Garden City

The Stables
7 Chesterton Mill
French's Road
Cambridge
CB4 3NP
01223 453385
www.tpa.uk.com

tpa
Transport Planning Associates

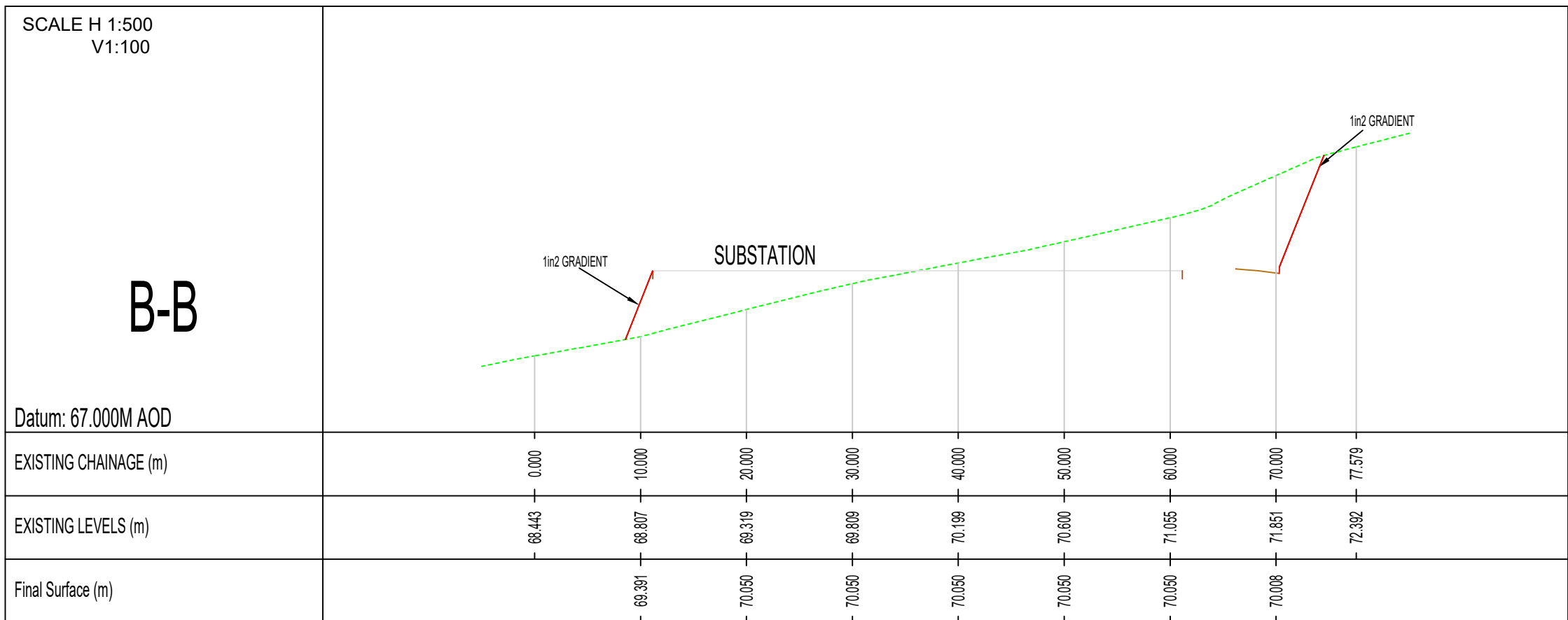
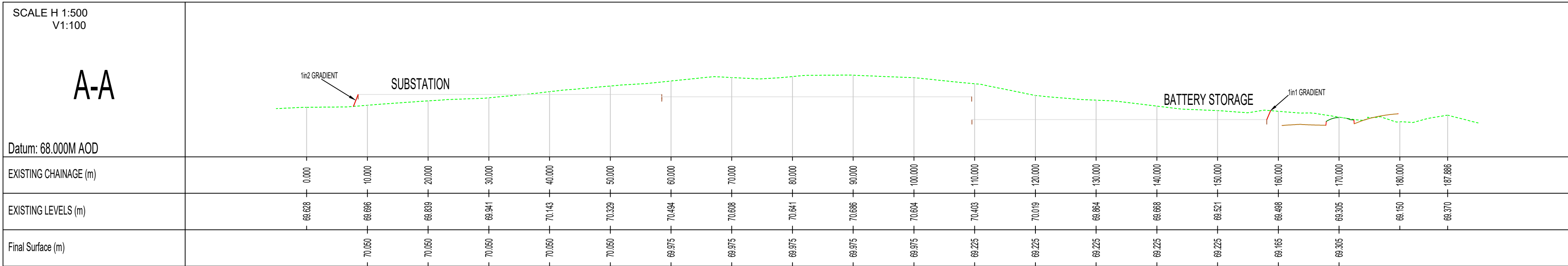
CLIENT:
WYLFA GREEN LIMITED

PROJECT:
**Alaw Mon
Solar Farm**

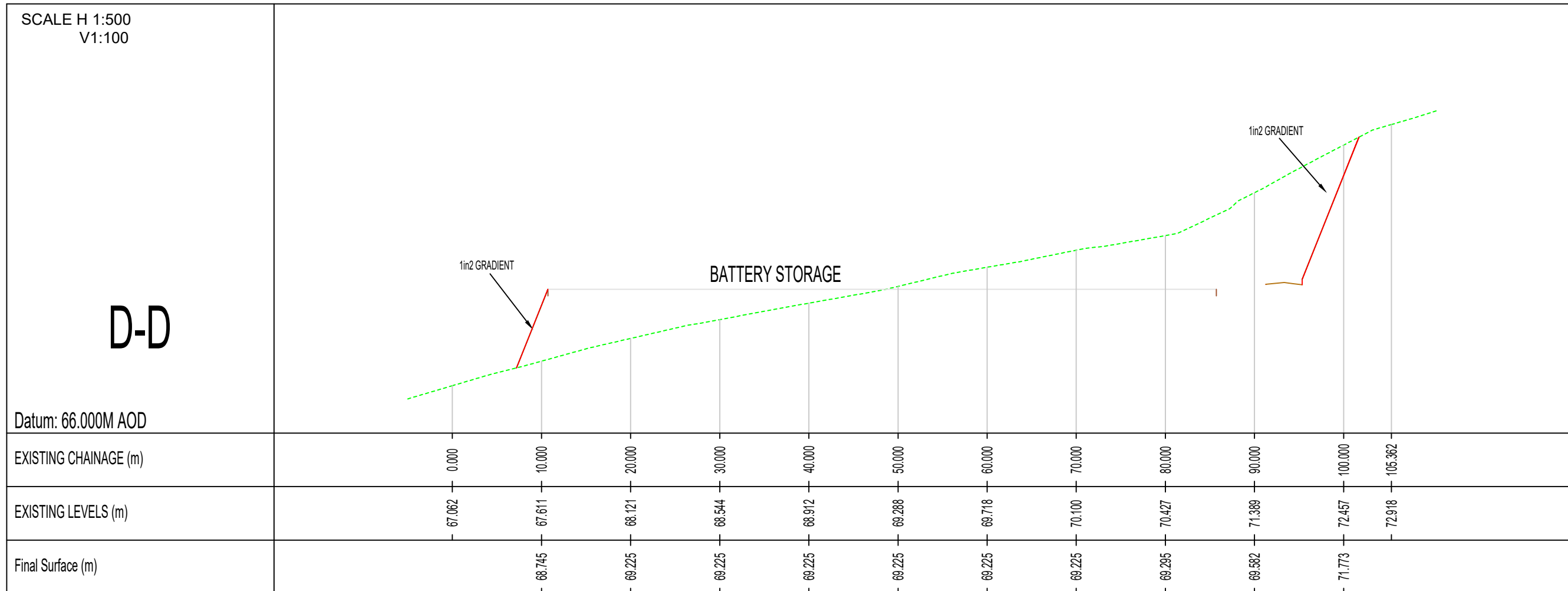
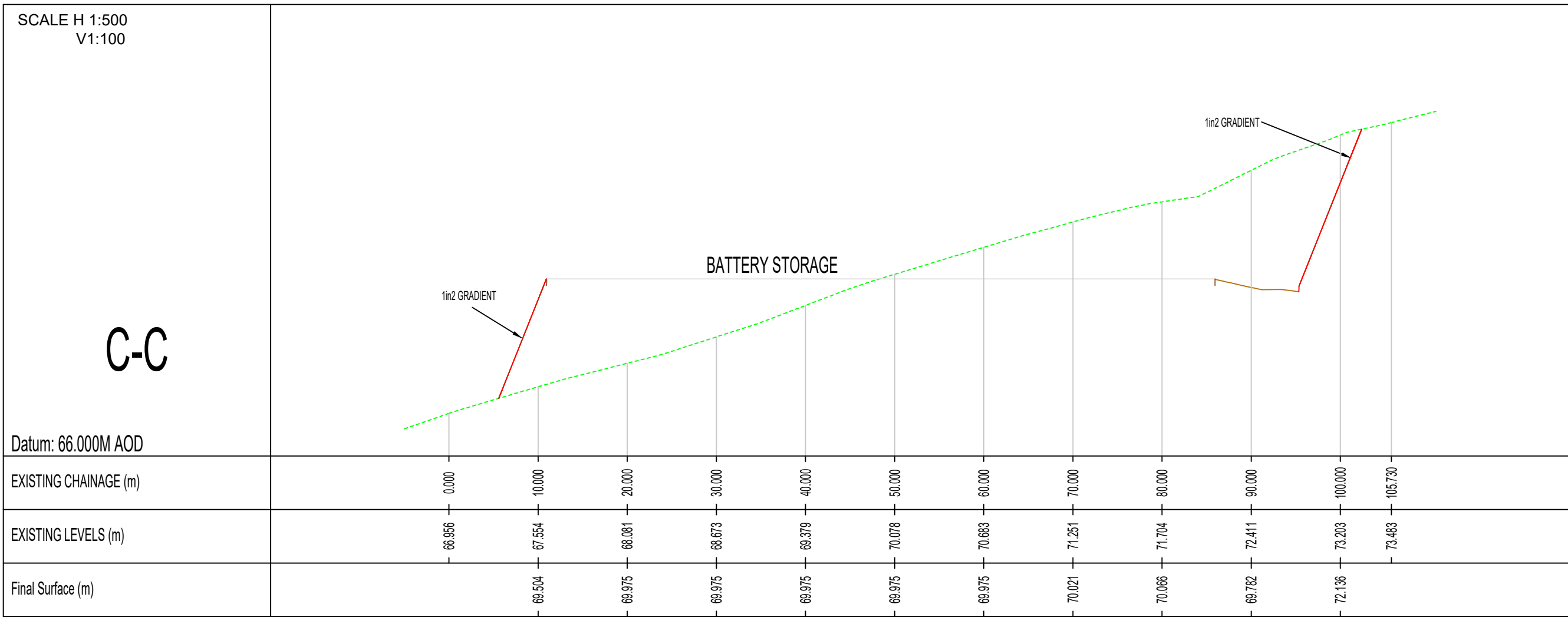
TITLE:
**Preliminary Cut & Fill
Assessment Layout**

STATUS:
FEASIBILITY

SCALE: 1:500	DATE: 19.08.21	DRAWN: NR	CHECKED: RR	APPROVED: JD
JOB NO: 2010-026	DRAWING NO: PL02	REVISION: C		



NOT TO SCALE



INDICATIVE

C	16.10.28	Updated to suit site layout	NR	RC	RR
B	24.02.22	Update to show gradient instead of retaining walls	BR	RC	RR
A	14.02.22	Updated to reduce retaining wall height	NR	RC	RR

Rev	Date	Details	Drawn By	Checked By	Approved By
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Bristol
Cambridge
London
Manchester
Oxford
Weylyn Garden City

The Stables
7 Chesterton Mill
French's Road
Cambridge
CB4 3NP
01223 453365
www.tpa.uk.com



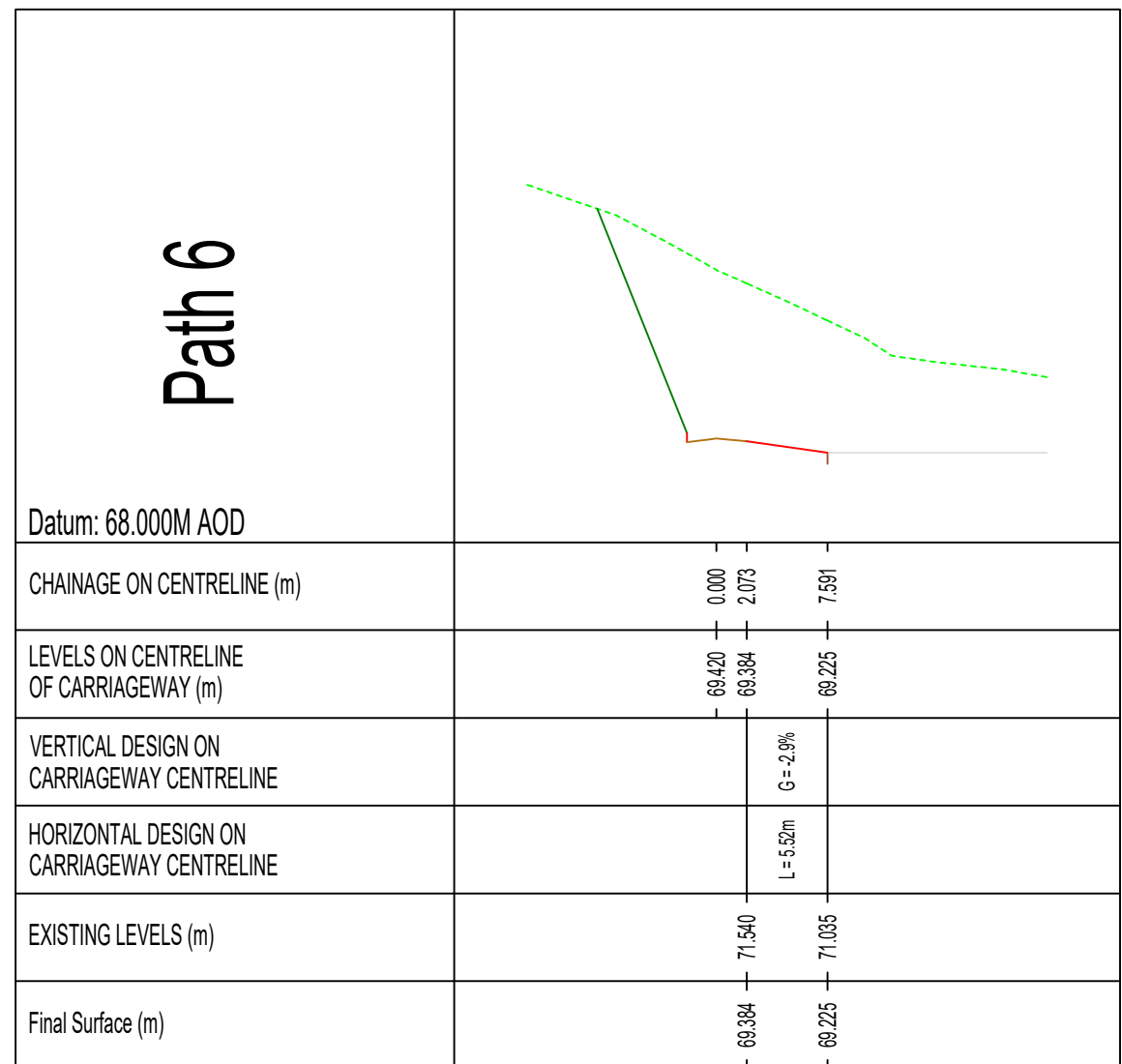
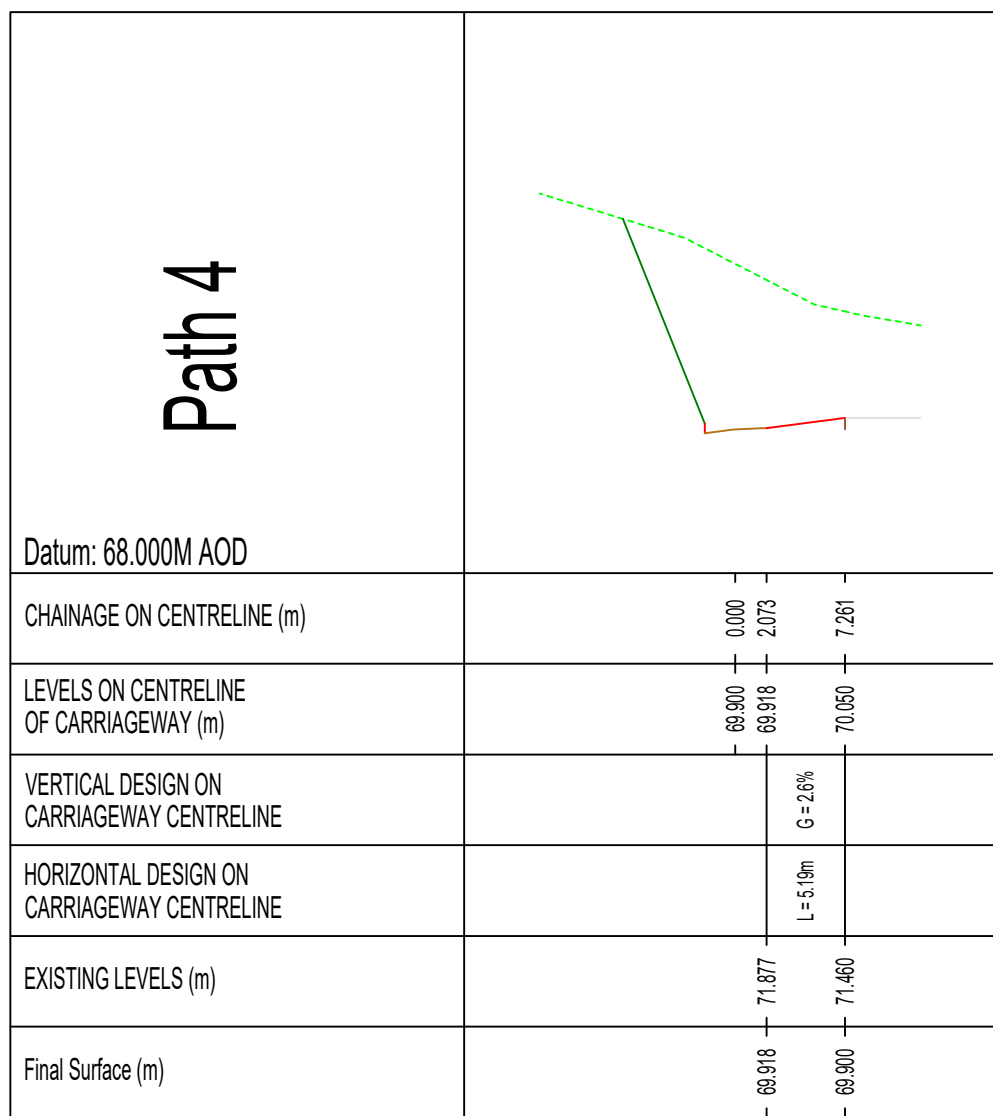
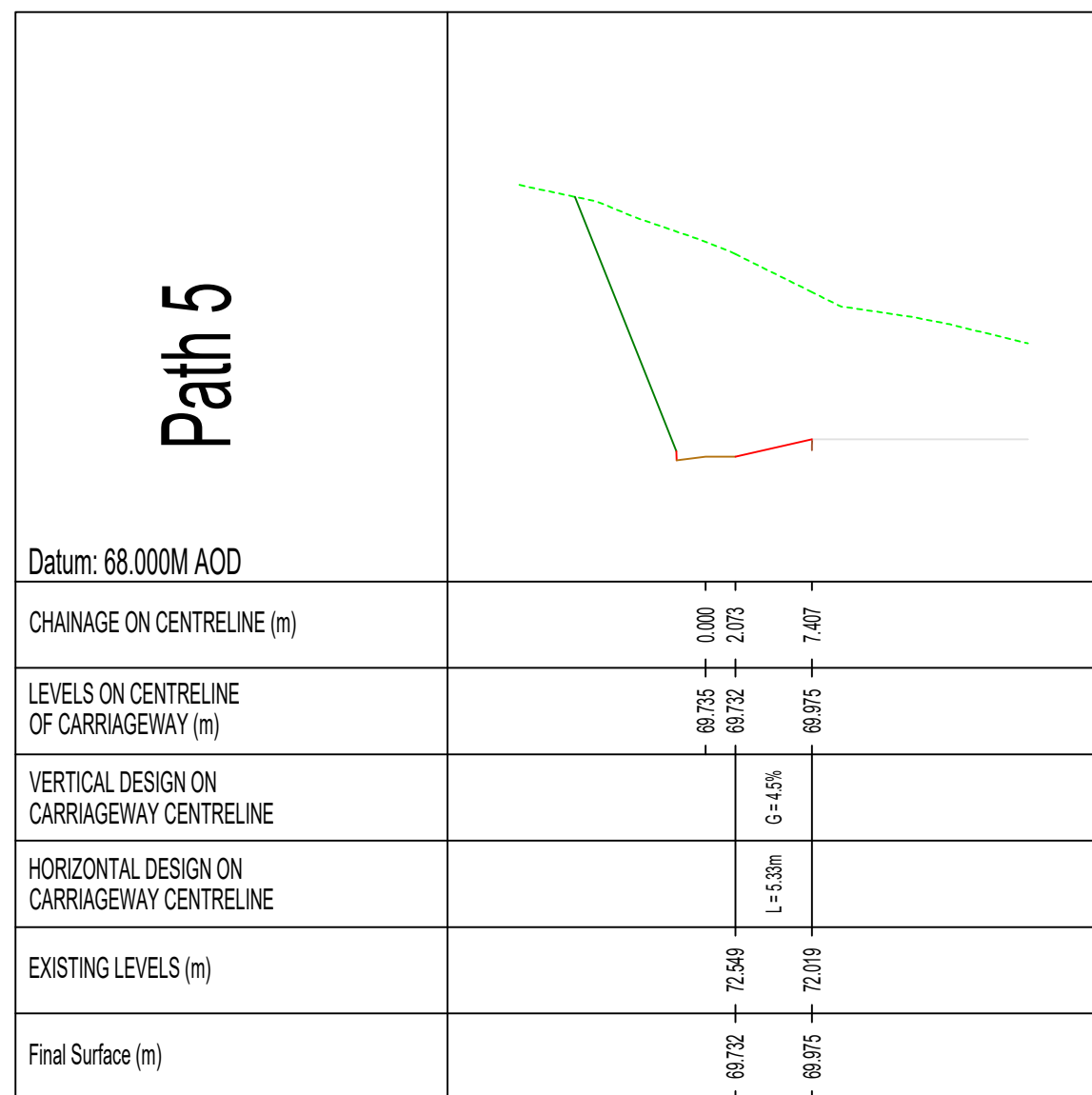
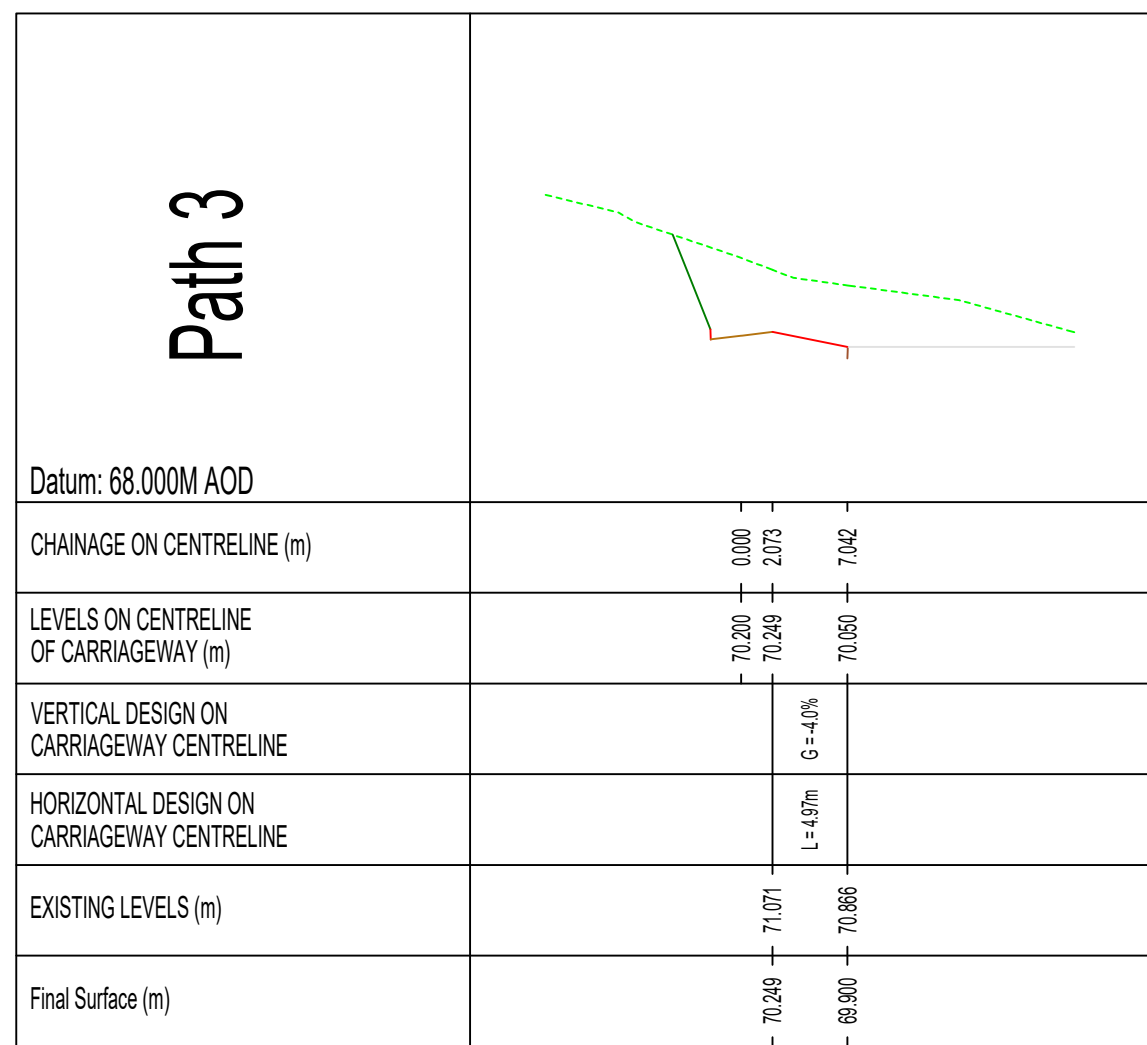
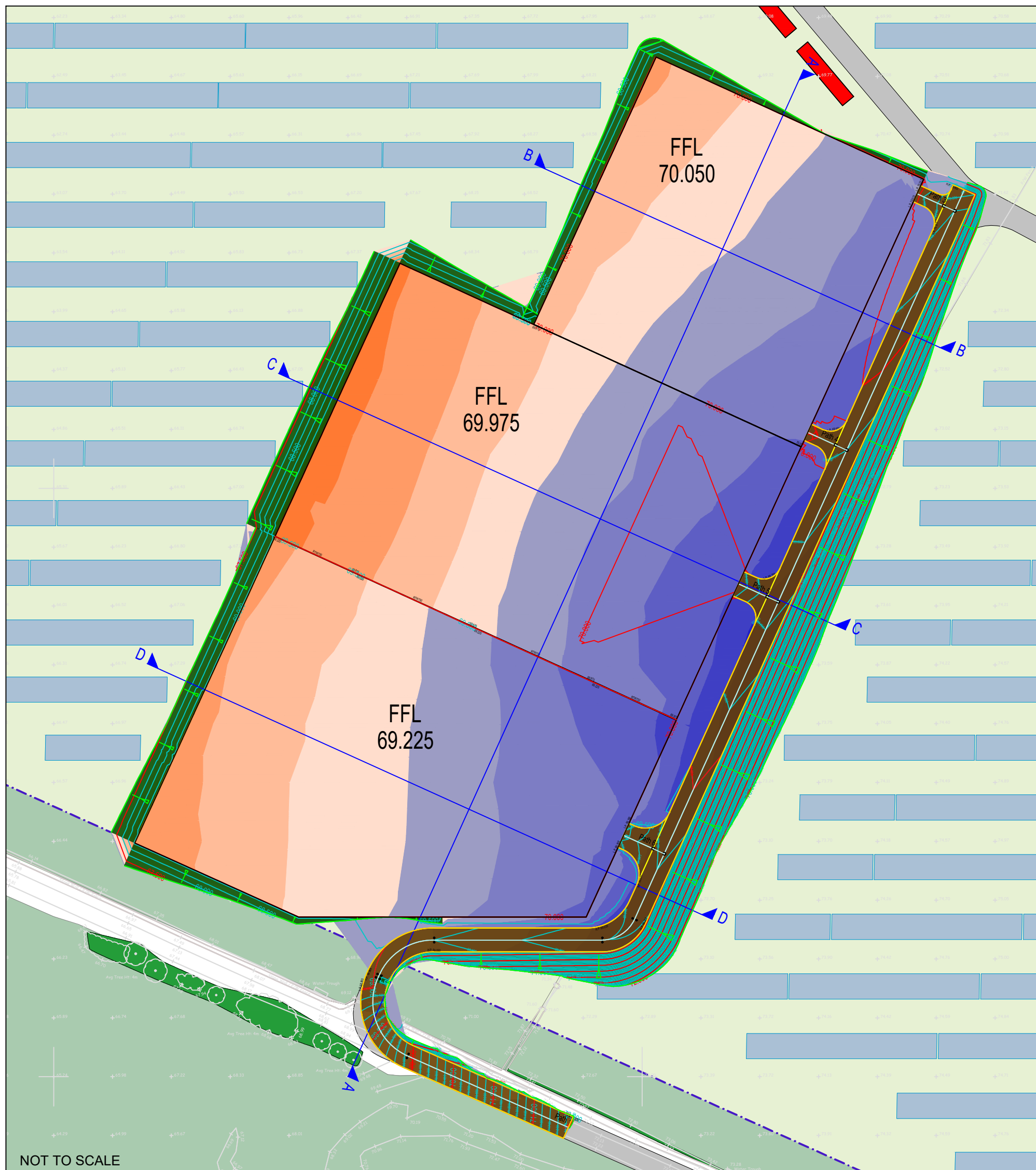
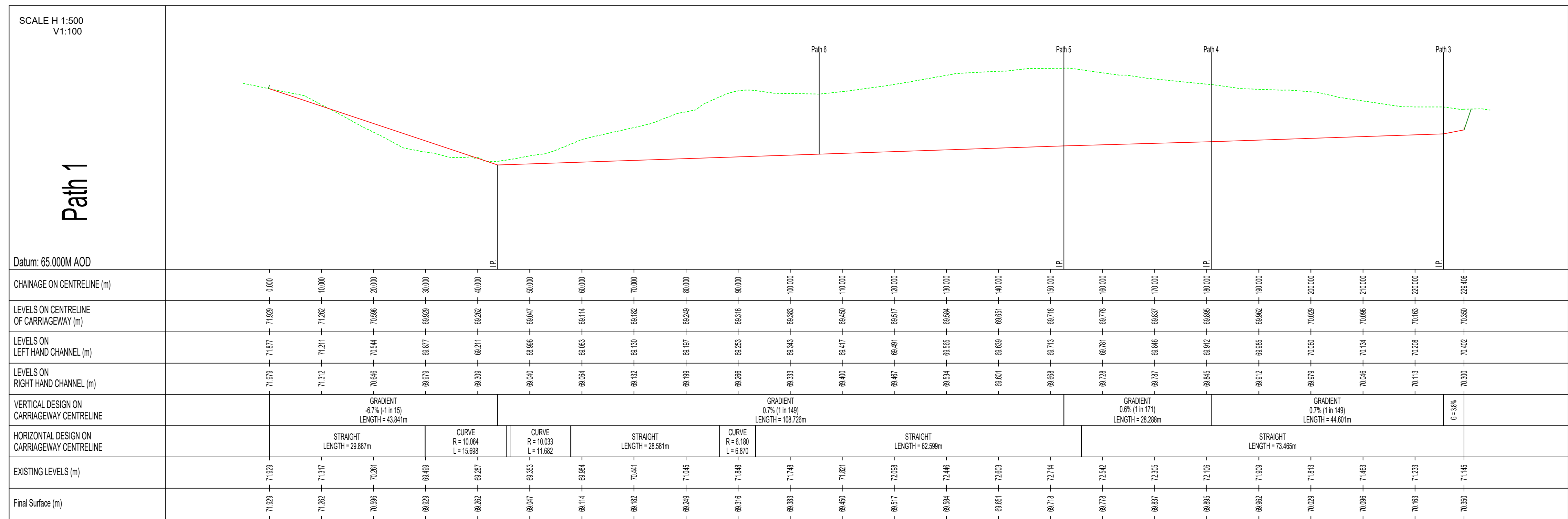
CLIENT:
WYLFA GREEN LIMITED

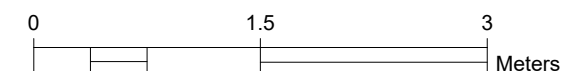
PROJECT:
**Alaw Mon
Solar Farm**

TITLE:
**Preliminary Cut & Fill
Cross Sections**

STATUS:
FEASIBILITY

SCALE: As Shown	DATE: 19.08.21	DRAWN: NR	CHECKED: RR	APPROVED: JD
JOB NO: 2010-026		DRAWING NO: PL03		REVISION: C



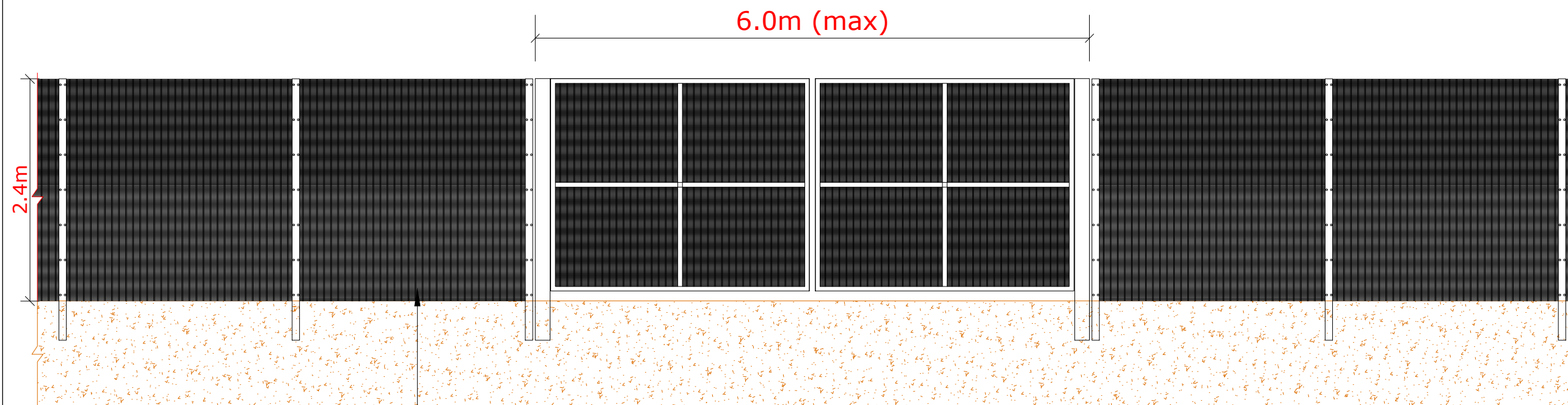
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LEGEND

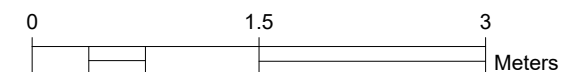
R	DATE	DESCRIPTION OF REVISION	REMARKS

cero^o  **enso**
energy

SHEET SIZE A3	SHEET 1 OF 1	SCALE 1:50	REV 01
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Welded steel wire mesh (SR2)



GENERAL NOTES

- 1) ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED.
- 2) COLOUR OF THE FENCE WILL BE GREEN

LEGEND

REFERENCE DRAWINGS		
No.	DRAWING TITLE	DRAWING No.

R	DATE	DESCRIPTION OF REVISION	REMARKS

PROJECT NAME : **ALAW MÔN
SOLAR PV AND BATTERY**

OWNER'S ENGINEER :

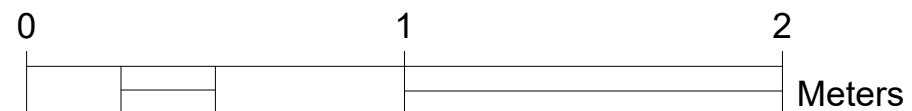
GENERAL CONTRACTOR :



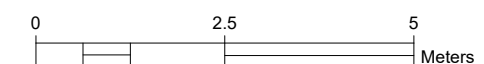
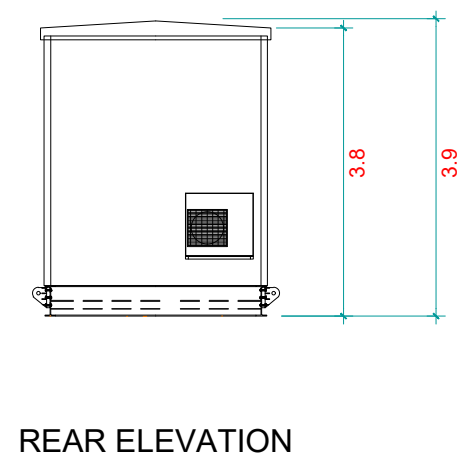
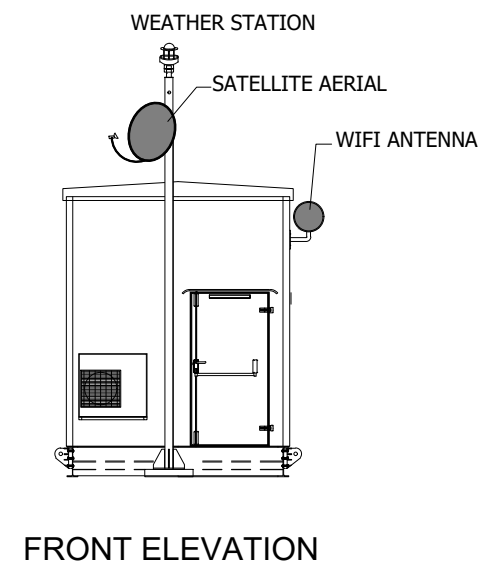
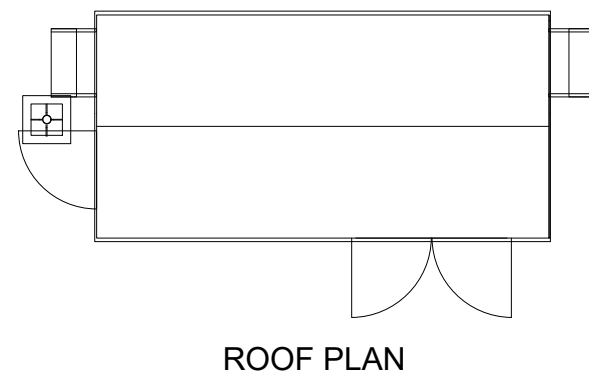
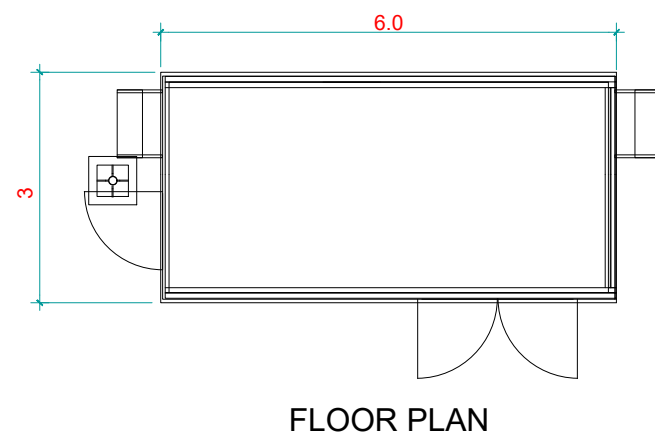
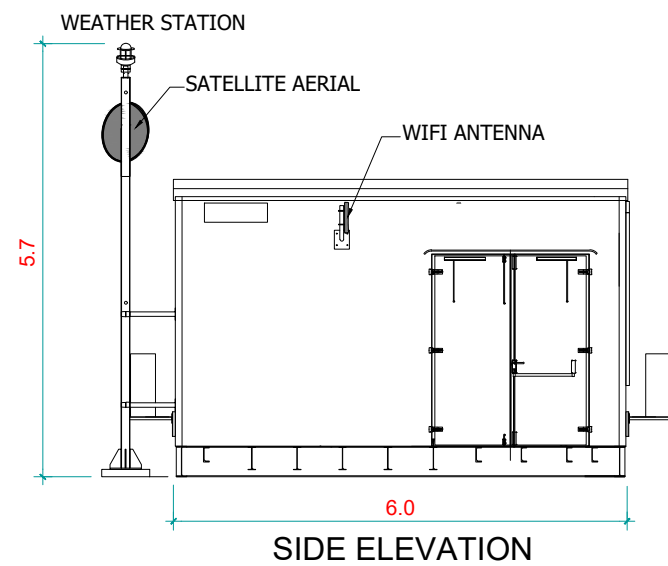
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DRAWN BY : GM	SIGN	TITLE : Battery Fence And Gate Elevations
DATE : 28-07-2021		
CHECKED BY :		
DATE :		
APPROVED BY :		
DATE :		

DRAWING No. : AM14.0			
SHEET SIZE A3	SHEET 1 OF 1	SCALE 1:50	REV 01



DRAWING No. : AM11.0			
SHEET SIZE A3	SHEET 1 OF 1	SCALE 1:50	REV 01



GENERAL NOTES

1) ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED.

LEGEND

REFERENCE DRAWINGS

No.	DRAWING TITLE	DRAWING No.

R	DATE	DESCRIPTION OF REVISION	REMARKS

PROJECT NAME :

ALAW MÔN

SOLAR PV AND BATTERY

OWNER'S ENGINEER :

GENERAL CONTRACTOR :

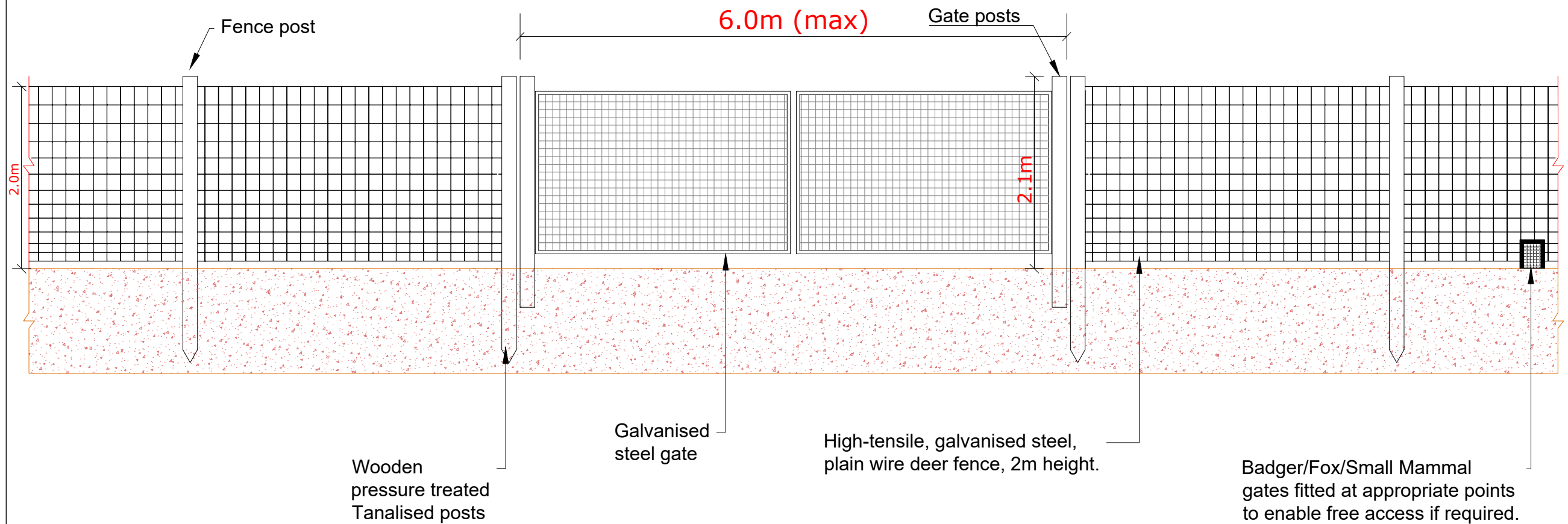


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DRAWN BY :	GM	SIGN	TITLE : CONTROL ROOM ELEVATIONS
DATE :	28-07-2021		
CHECKED BY :			
DATE :			
APPROVED BY :			
DATE :			

DRAWING No. : **AM9.0**

SHEET SIZE A3	SHEET 1 OF 1	SCALE 1:100	REV 01
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GENERAL NOTES

- 1) ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED.
2) DISTANCES BETWEEN FENCE POSTS WILL VARY.

LEGEND

REFERENCE DRAWINGS

No.	DRAWING TITLE	DRAWING No.

R	DATE	DESCRIPTION OF REVISION	REMARKS

PROJECT NAME :
**ALAW MÔN
SOLAR PV AND BATTERY**

OWNER'S ENGINEER :

GENERAL CONTRACTOR :



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DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	DRAWING No.	TITLE

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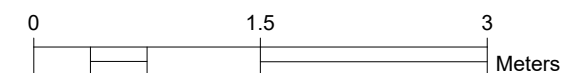
Technical drawing of a rectangular panel. The width is labeled as 2.4 and the height is labeled as 2.9. The panel features a central area with vertical lines, suggesting a slatted or ribbed design. It is shown mounted on a base, with small rectangular components visible at the corners of the base.

The floor plan is a long, narrow rectangle divided into three sections. The leftmost section is labeled 'Switchgear', the middle section is labeled 'Transformer', and the rightmost section is labeled 'Inverters'. The total length of the plan is 12.2, and the total width is 2.4. The sections are separated by vertical lines, and there are small rectangular details at the corners of the sections.

0

12.2

0



1) ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED.

2) INVERTER STATIONS TO BE PAINTED RAL6005

3) FOUNDATIONS SHOWN INDICATIVELY ONLY. DIMENSIONS TO BE CONFIRMED BASED ON SITE CONDITIONS.

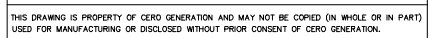
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Australia	1995	1,000	Hawthorne
Australia	1995	1,000	Hawthorne
Australia	1995	1,000	Hawthorne
Australia	1995	1,000	Hawthorne
Australia	1995	1,000	Hawthorne
Australia	1995	1,000	Hawthorne
Australia	1995	1,000	Hawthorne
Australia	1995	1,000	Hawthorne
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No.	DRAWING TITLE	DRAWING No.

PROJECT NAME :
**ALAW MÔN
SOLAR PV AND BATTERY**

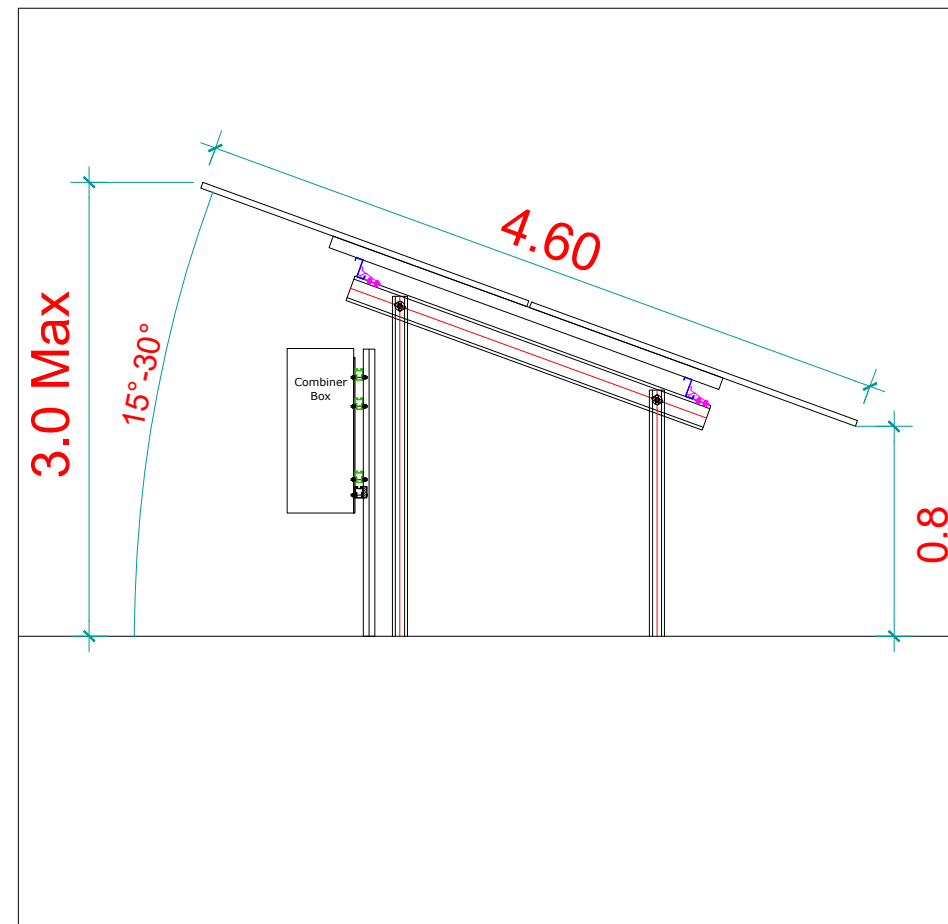
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1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099
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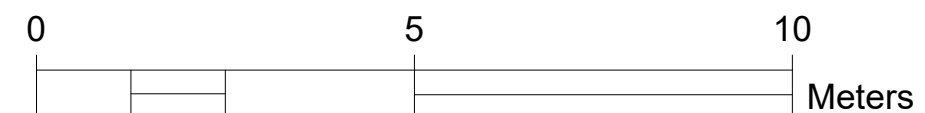
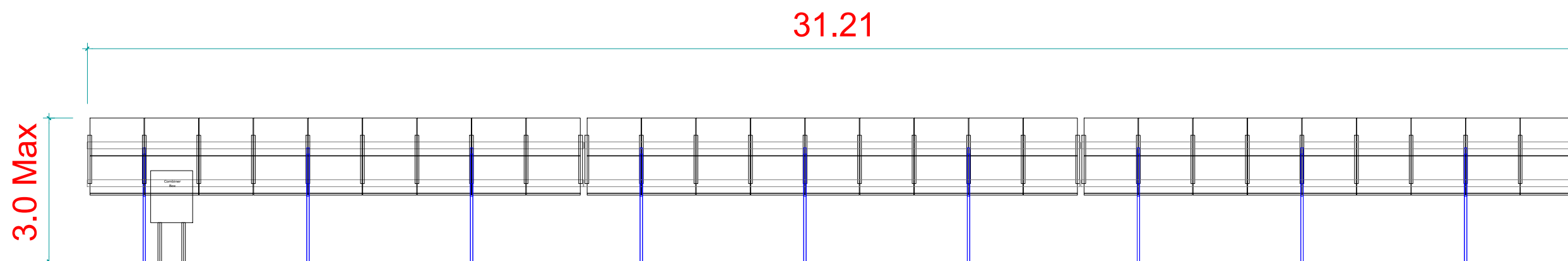


DRAWING No. : **AM4.0**

SHEET SIZE A3	SHEET 1 OF 1	SCALE 1:50	REV 01
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SIDE ELEVATION (Scale 1:50)



GENERAL NOTES

- 1) ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED.
- 2) FINAL DIMENSIONS MAY VARY DEPENDING ON MODULE TYPE

LEGEND

REFERENCE DRAWINGS		
No.	DRAWING TITLE	DRAWING No.

[illegible]

PROJECT NAME :
**ALAW MÔN
SOLAR PV AND BATTERY**

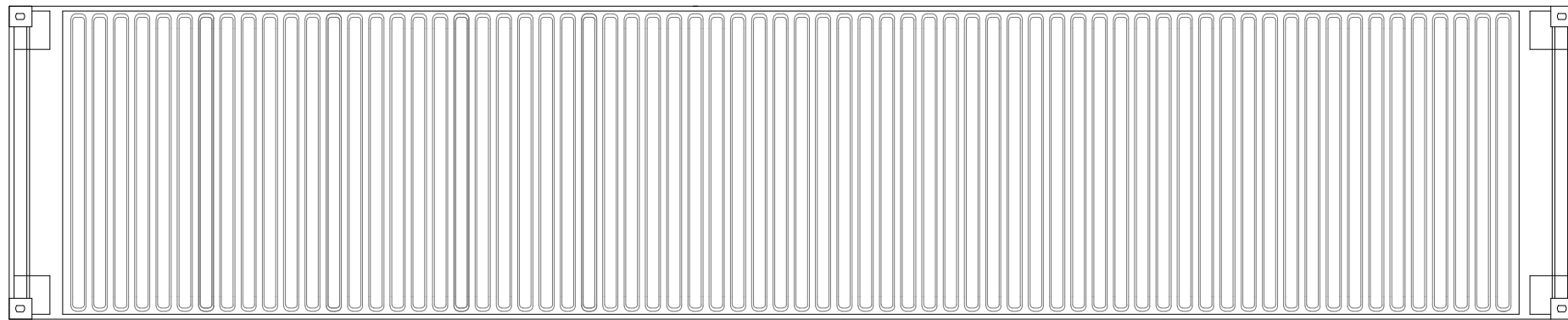
OWNER'S ENGINEER :

GENERAL CONTRACTOR :

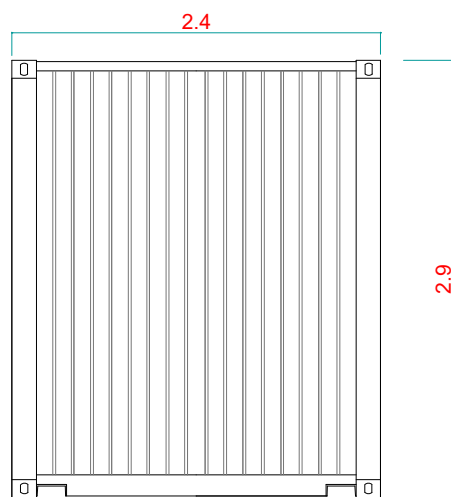


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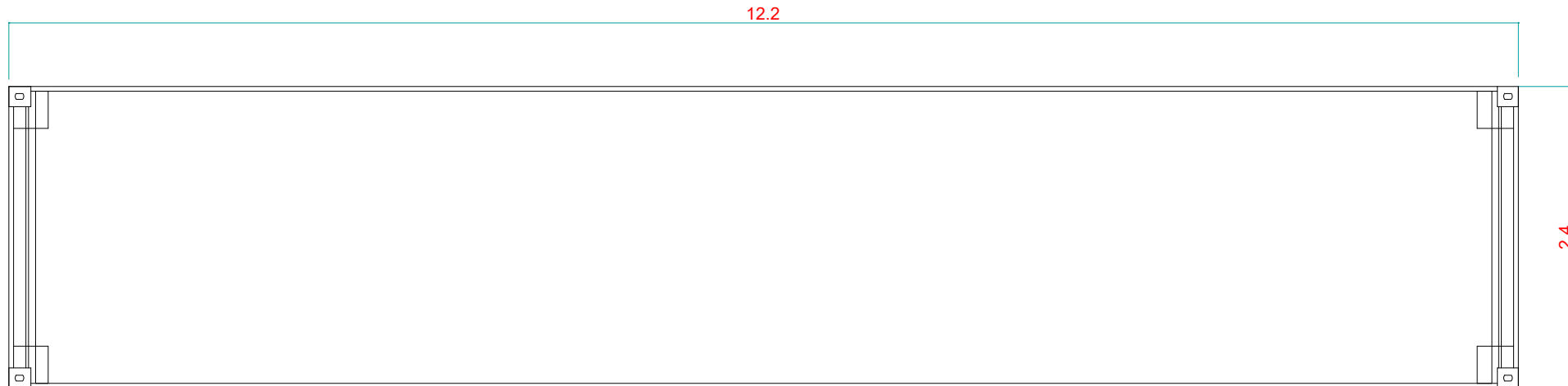
DRAWN BY : GM		SIGN	TITLE :
DATE : 28-07-2021			
CHECKED BY :			
DATE :			
APPROVED BY :			PV Elevations
DATE :			
DRAWING No. : AM3.0			
SHEET SIZE A3	SHEET 1 OF 1	SCALE 1:300	REV 01



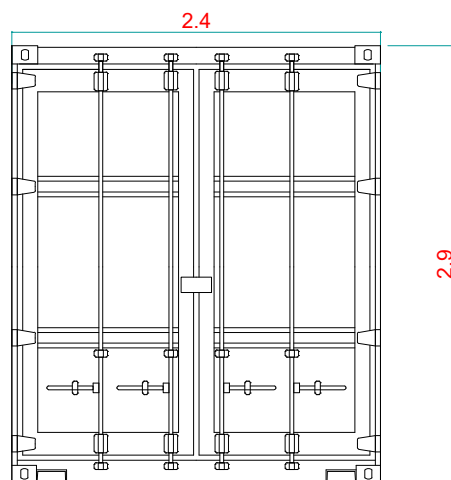
Roof Plan



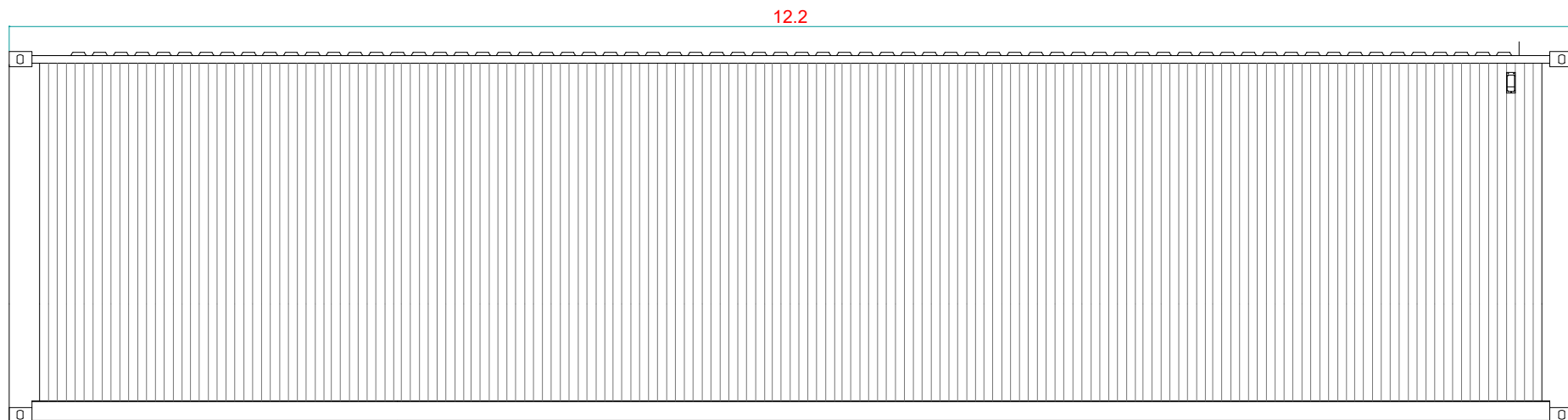
Rear Elevation



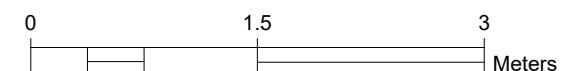
Floor Plan



Front Elevation



Side Elevation



GENERAL NOTES

- 1) ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED.
- 2) CONTAINERS TO BE PAINTED RAL6005

LEGEND

REFERENCE DRAWINGS		
No.	DRAWING TITLE	DRAWING No.

R	DATE	DESCRIPTION OF REVISION	REMARKS

PROJECT NAME :

ALAW MÔN

SOLAR PV AND BATTERY

OWNER'S ENGINEER :

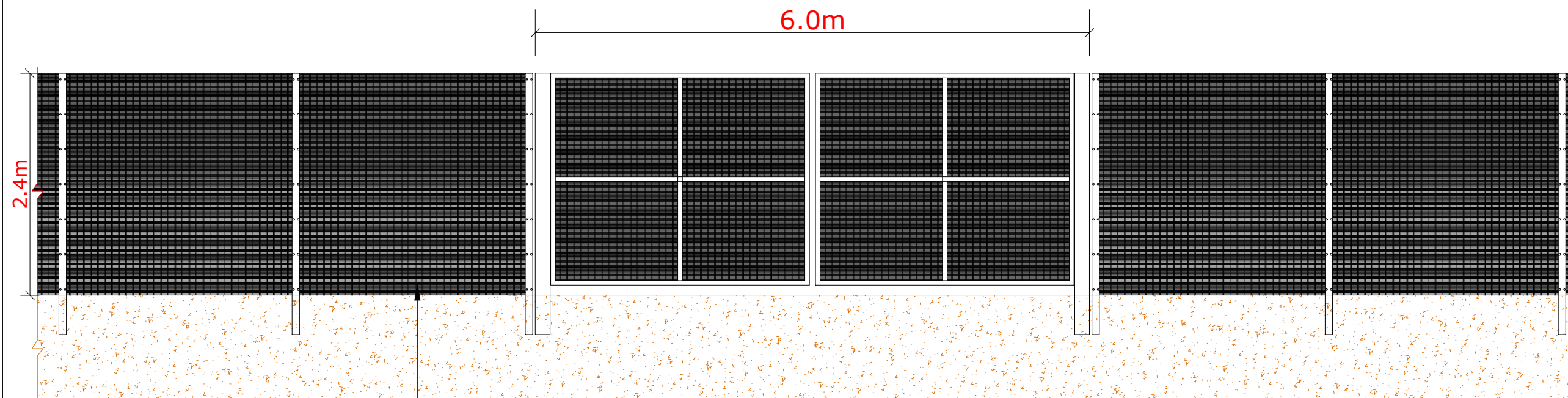
GENERAL CONTRACTOR :



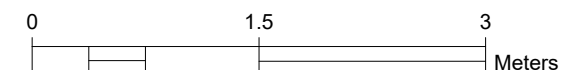
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DRAWN BY : GM	SIGN	TITLE : Storage Container Elevations 40ft
DATE : 28-07-2021		
CHECKED BY :		
DATE :		
APPROVED BY :		
DATE :		

DRAWING No. : AM13.0			
SHEET SIZE A3	SHEET 1 OF 1	SCALE 1:50	REV 01



Welded steel wire mesh (SR2)



GENERAL NOTES

1) ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED.

LEGEND

REFERENCE DRAWINGS		
No.	DRAWING TITLE	DRAWING No.

R	DATE	DESCRIPTION OF REVISION	REMARKS

PROJECT NAME :

ALAW MÔN SOLAR PV AND BATTERY

OWNER'S ENGINEER :

GENERAL CONTRACTOR :

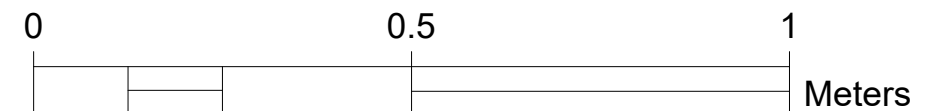


THIS DRAWING IS PROPERTY OF CERO GENERATION AND MAY NOT BE COPIED (IN WHOLE OR IN PART)
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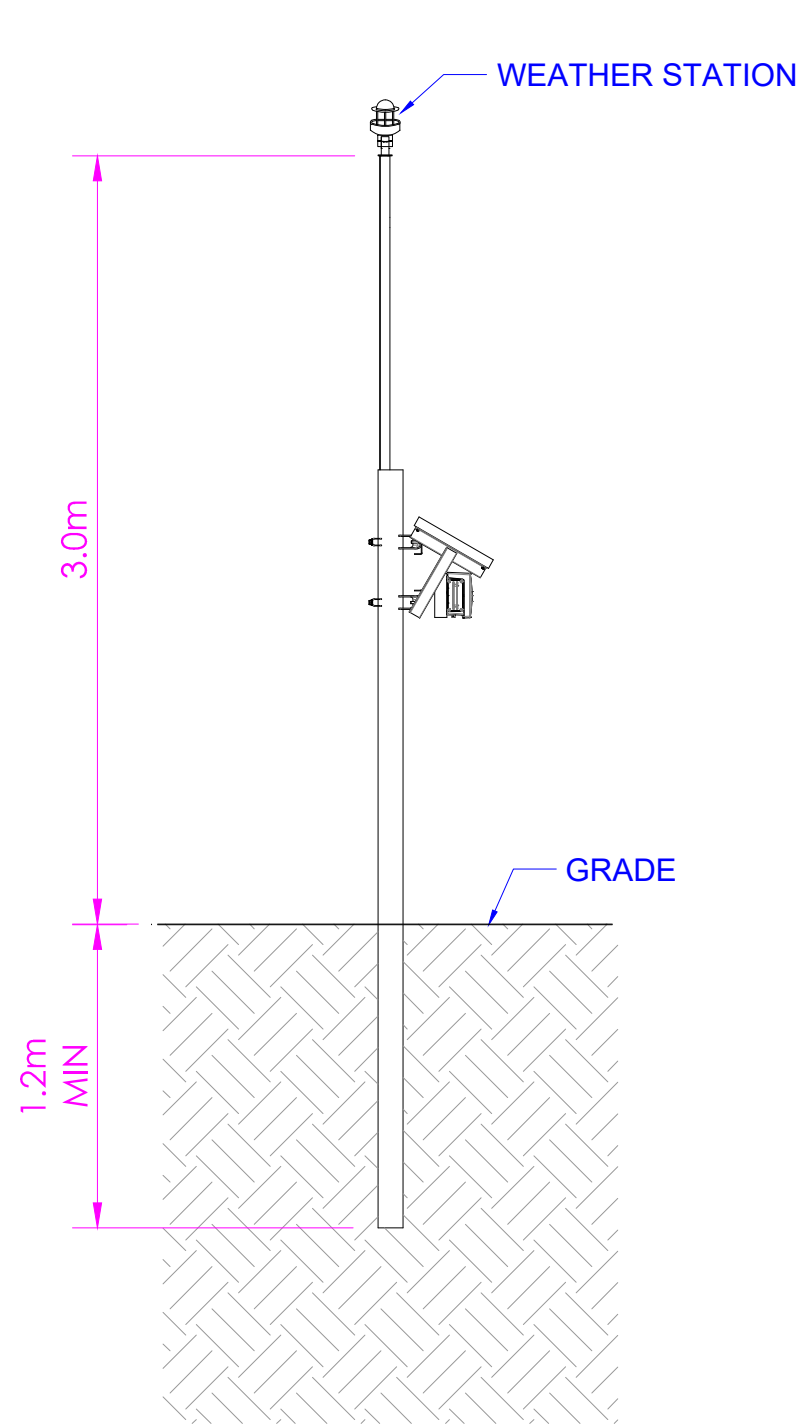
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DATE : 28-07-2021		
CHECKED BY :		
DATE :		
APPROVED BY :		
DATE :		

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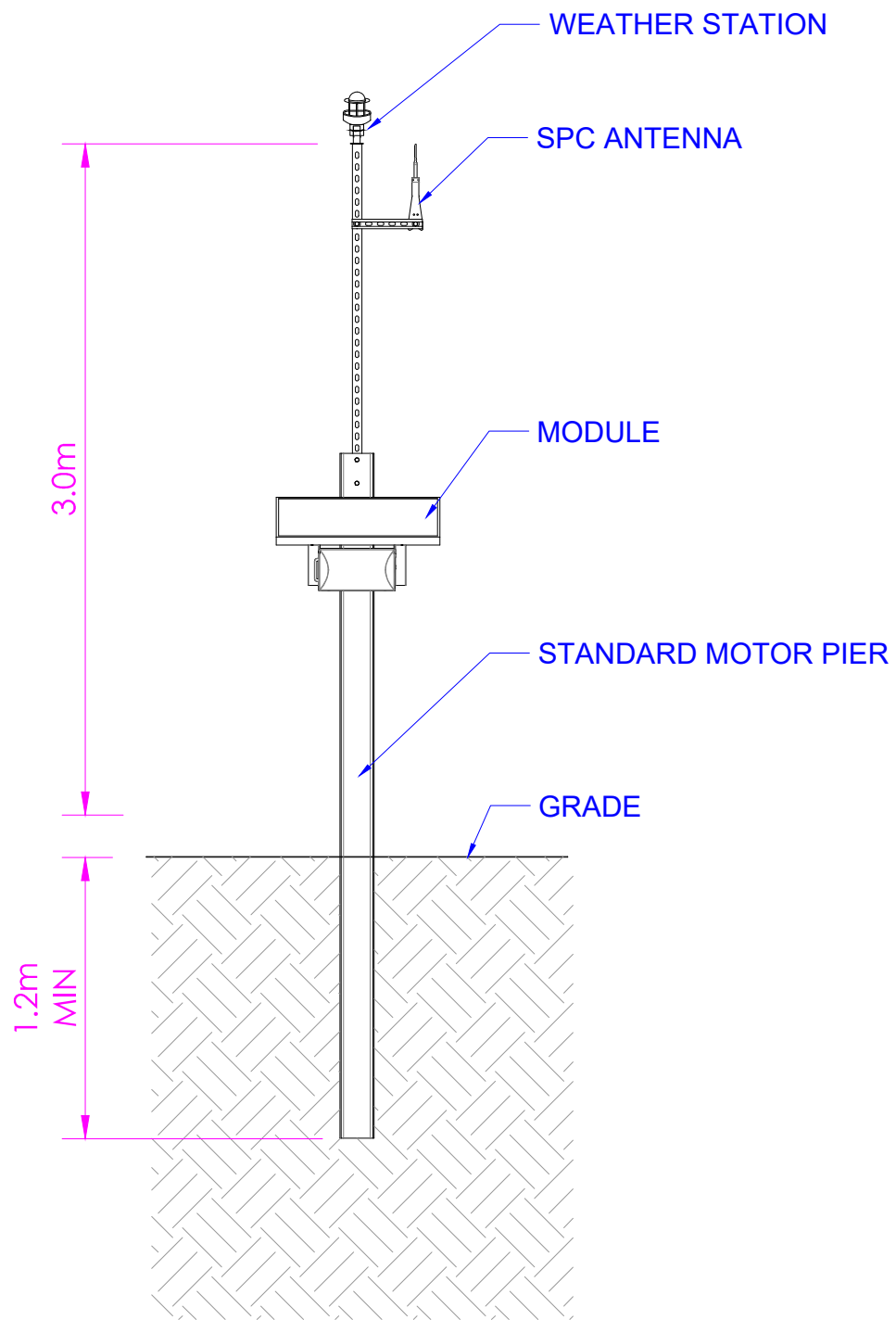
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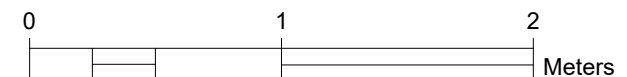
DRAWING No. : AM16.0			
SHEET SIZE A3	SHEET 1 OF 1	SCALE 1:50	REV 01



SIDE VIEW



FRONT VIEW



GENERAL NOTES

1) ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED.

LEGEND

REFERENCE DRAWINGS

No.	DRAWING TITLE	DRAWING No.

R	DATE	DESCRIPTION OF REVISION	REMARKS

PROJECT NAME :
**ALAW MÔN
SOLAR PV AND BATTERY**

OWNER'S ENGINEER :

GENERAL CONTRACTOR :



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DRAWN BY : GM	SIGN	TITLE :
DATE : 28-07-2021		
CHECKED BY :		
DATE :		
APPROVED BY :		
DATE :		

DRAWING No. : **AM7.0**

SHEET SIZE A3	SHEET 1 OF 1	SCALE 1:30	REV 01
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132kV CABLE BASED ON ENA 12-24 ISSUE 2 SPECIFICATION	DUCTED (SINGLE)
FOOTWAY	
CARRIAGEWAY	
NORMAL ARABLE LAND	
ARABLE LAND SUBJECT TO DEEP PLOUGHING	

- NOTES:
- THIS DRAWING IS FOR DEVELOPMENT AND PLANNING PURPOSES.
 - SUGGESTED MINIMUM BENDING RADII
630mm² SINGLE CORE COPPER XLPE 580mm
630mm² SINGLE CORE ALUMINIUM XLPE 580mm

800mm² SINGLE CORE COPPER XLPE 660mm
800mm² SINGLE CORE ALUMINIUM XLPE 660mm

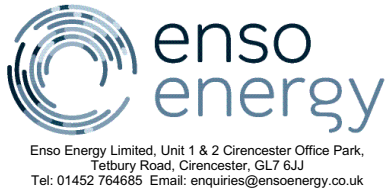
1000mm² SINGLE CORE COPPER XLPE 710mm
1000mm² SINGLE CORE ALUMINIUM XLPE 710mm

REFERENCES:
ENA 12-24 ISSUE 2 TECHNICAL SPECIFICATION FOR CABLE DUCTING

ENA 97-1 EXTRACT TECHNICAL SPECIFICATION FOR CBS BACKFILL

ENA 12-23 TECHNICAL SPECIFICATION FOR TILE TAPE & TILE BOARD COVERS

NJUG GUIDELINES FOR CABLE SEGREGATION



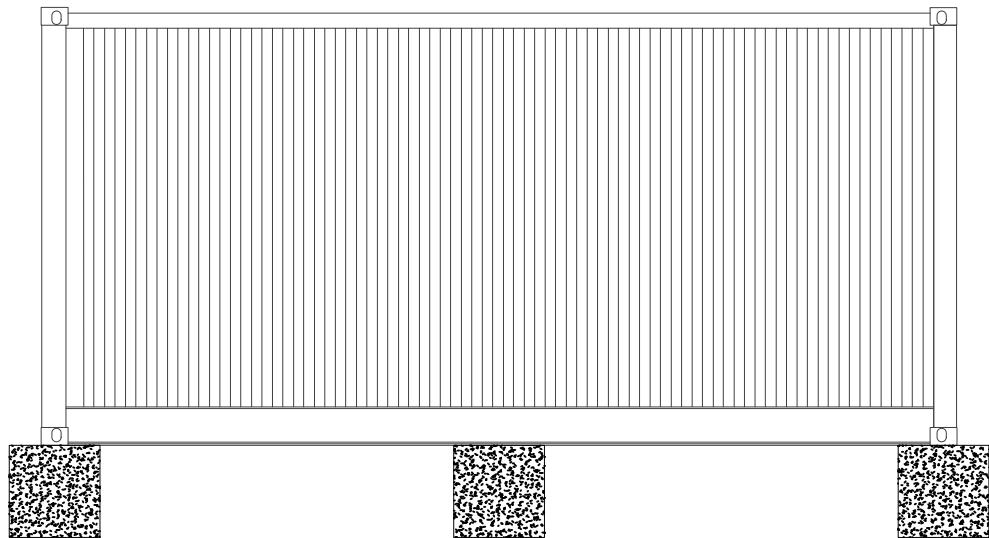
Revisions:
First Issue- 13/06/2023 JS



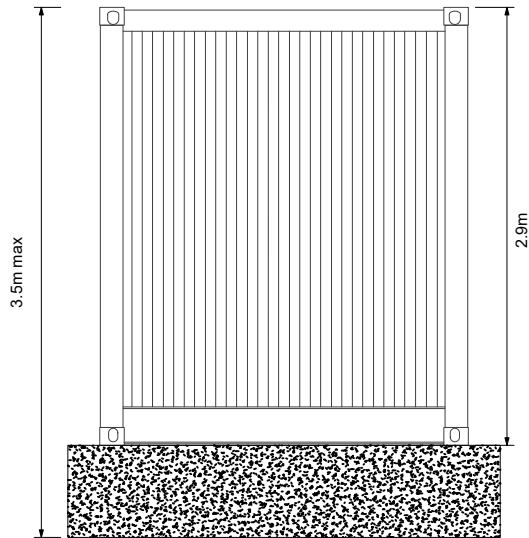
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Project Title: Alaw Môn (Wylfa) Solar Farm		
Drawing Title: 132kV Connection Cable Arrangement Between the NG Substation and the Solar Substation		
DRWG No: WAM-01-P19	Rev: -	Sht no: -
Drawn by : JS	Checked by: OH	
Scale: 1:20 @ A2	Date: 13/06/2023	

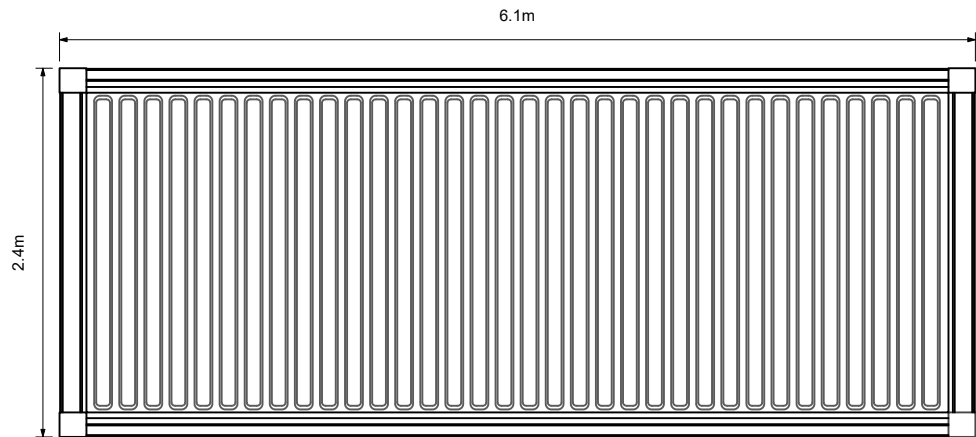
Side Elevation



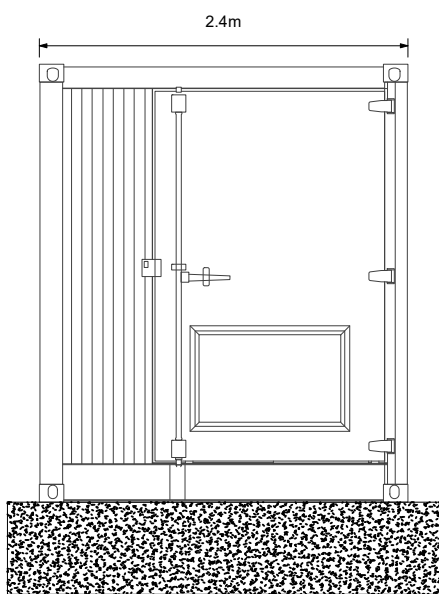
Rear Elevation



Roof Plan



Front Elevation



GENERAL NOTES:

1) ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED.

Revisions:
First Issue- 22/09/2023 JS

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Enso Energy Limited, Unit 1 & 2 Cirencester Office Park,
Tetbury Road, Cirencester, GL7 6JJ
Tel: 01452 764685 Email: enquiries@ensoenergy.co.uk

Project Title:
Alaw Môn (Wylfa) Solar Farm

Drawing Title:
BESS Inverter/Transformer

DRWG No: WAM-01-P20	Rev: -	Sht no: -
Drawn by : JS	Checked by: OH	
Scale: 1:50 @ A3	Date: 22/09/2023	