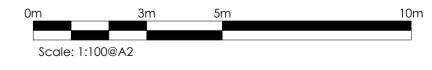


Proposed SE Elevation (Right

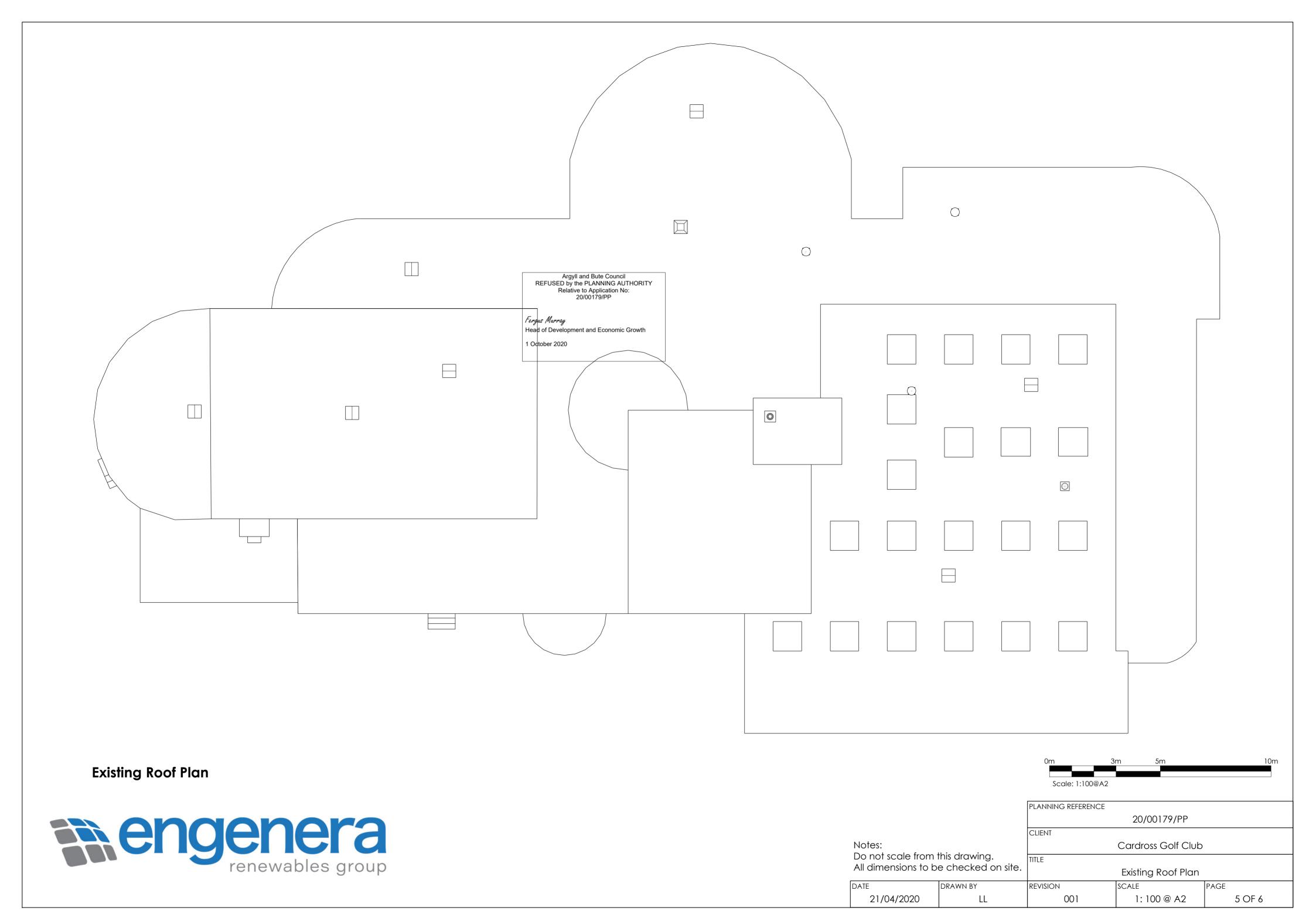


Notes:
Do not scale from this drawing.
All dimensions to be checked on site.

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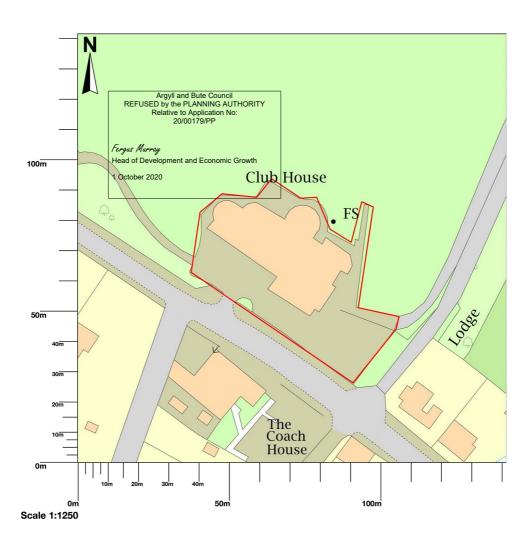
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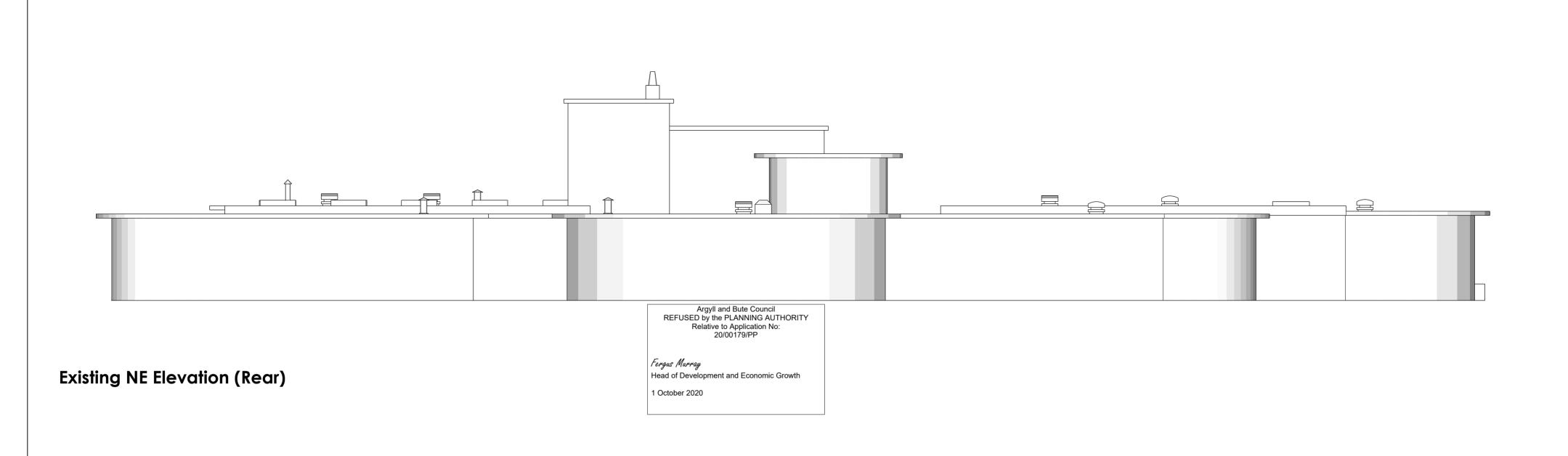


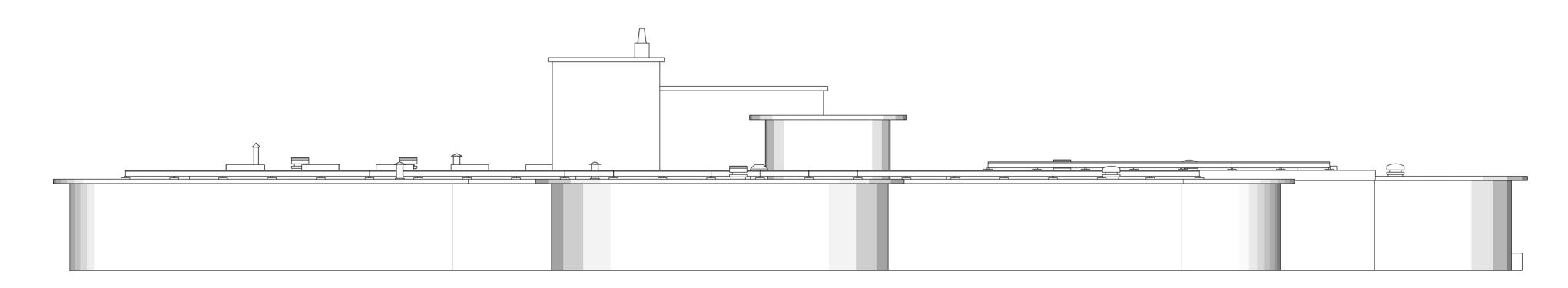


# Cardross Golf Club, Main Road, Cardross, Dumbarton, G82 5LB



Map area bounded by: 234701,677371 234843,677513. Produced on 05 May 2020 from the OS National Geographic Database. Reproduction in whole or part is prohibited without the prior permission of Ordnance Survey. © Crown copyright 2020. Supplied by UKPlanningMaps.com a licensed OS partner (100054135). Unique plan reference: p2buk/453330/614646

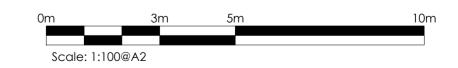




Proposed NE Elevation (Rear)

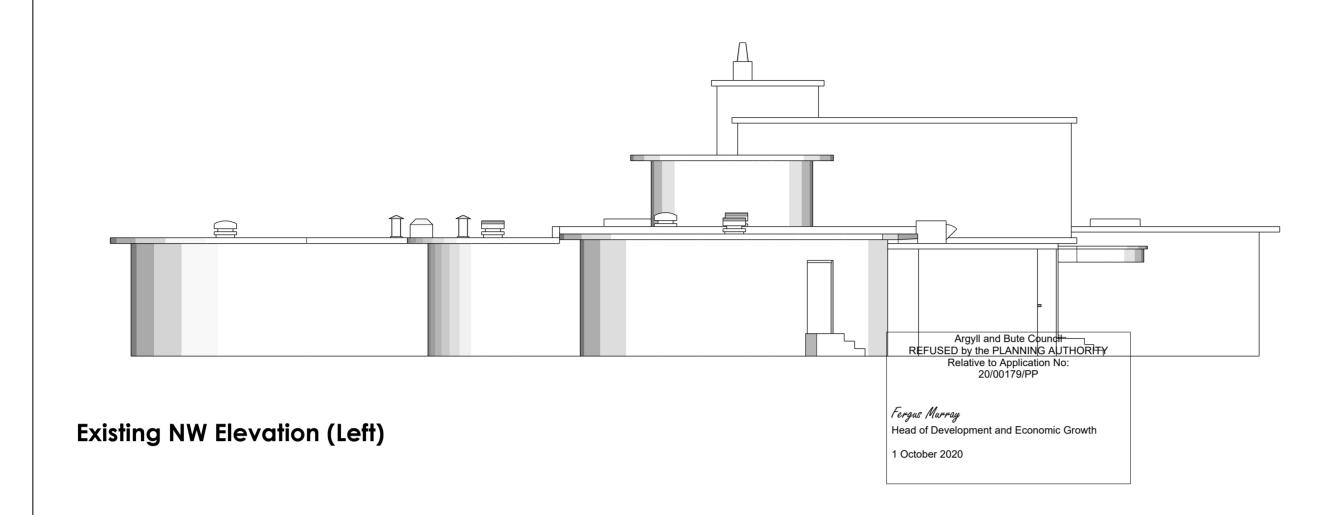


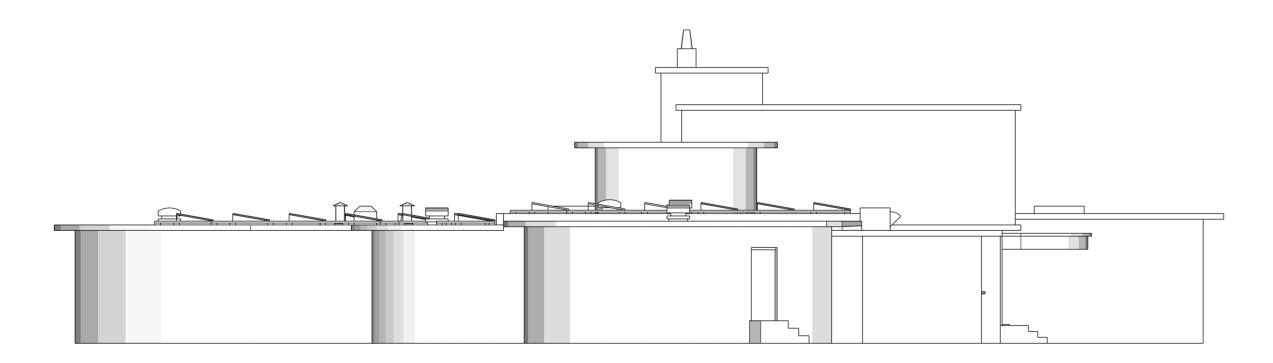
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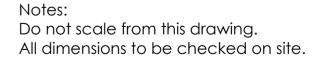
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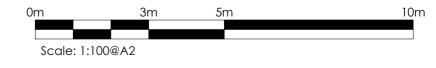


Proposed NW Elevation (Left)

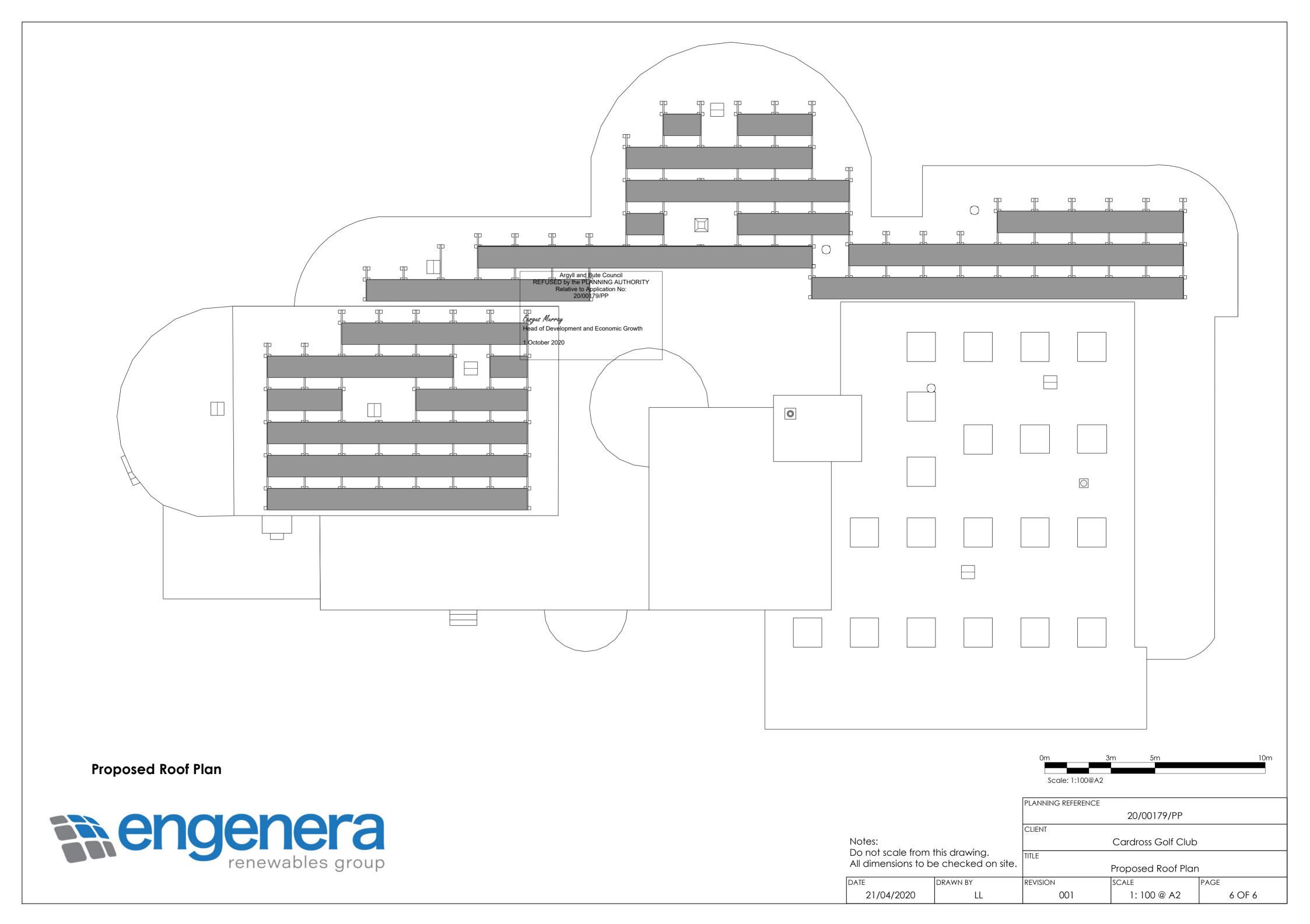




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THE



# **60 LAYOUT**

**MULTICRYSTALLINE** 

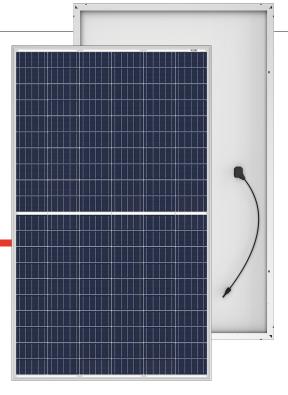
Argyll and Bute Council
REFUSED by the PLANNING AUTHORITY
Relative to Application No:
20/00179/PP

PRODUCTS TSM-PE06H

285-300W

POWER OUTPUT RANGE

Fergus Murray
Head of Development and Economic Growth
1 October 2020



17.6%
MAXIMUM EFFICIENCY

# 0~+5W POSITIVE POWER TOLARANCE

Founded Founded in 1997, Trina Solar is the world's leading total solutions provider for solar energy. With local presence around the globe, Trina Solar is able toprovide exceptional service to each customer in each market and deliver our innovative, reliable products with thebacking of Trina as a strong, bankable brand. Trina Solar now distributes its PV products to over 100 countries all over the world. We are committed to building strategic, mutually beneficial collaborations with installers, developers, distributors and other partners in driving smart energy together.

## Comprehensive Products And System Certificates

IEC61215/IEC61730/UL1703/IEC61701/IEC62716
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO14064: Greenhouse gases Emissions Verification
OHSAS 18001: Occupation Health and Safety
Management System



















# Ideal for large scale installations

• Reduce BOS cost with higher power bin and 1500V system voltage



# Half-cell design brings higher efficiency

- Low thermal coefficients for greater energy production at high operating temperature
- Low cell connection power loss due to half-cell layout (120 multicrystalline)



# Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF etc)
- Internal test requirement of Trina more stringent than certification authority
- PID resistant
- 100% EL double inspection

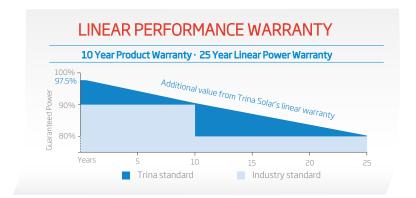
**POWER RANGE** 

285-300W



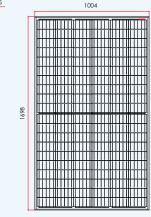
# Certified to withstand the most challenging environmental conditions

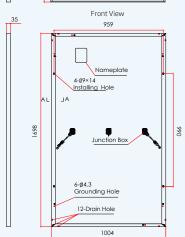
- 2400 Pa negative load
- 5400 Pa positive load
- \* 2400/5400 is the measured load, and the safety factor is 1.5 times

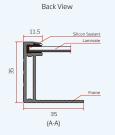




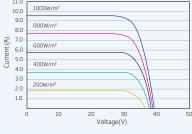
#### DIMENSIONS OF PV MODULE(mm)



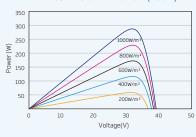




## I-V CURVES OF PV MODULE(290W)



#### P-V CURVES OF PV MODULE(290W)



#### **ELECTRICAL DATA (STC)**

Peak Power Watts-PMAX (Wp)*	285	290	295	300
Power Output Tolerance-PMAX (W)		0 -	~ +5	
Maximum Power Voltage-VMPP (V)	31.5	31.8	32.1	32.3
Maximum Power Current-IMPP (A)	9.05	9.12	9.19	9.29
Open Circuit Voltage-VOC (V)	38.8	39.2	39.5	39.8
Short Circuit Current-ISC (A)	9.53	9.60	9.67	9.77
Module Efficiency $\eta$ m (%)	16.7	17.0	17.3	17.6

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. \*Measuring tolerance: ±3%.

#### **ELECTRICAL DATA (NMOT)**

Arg <b>)MaxinButer Pouvoei</b> r-PMAX (Wp) REFUSED by the PLANNING AUTHORITY		216	219	223	227	
	Rela	ative to Application No: May 171497-Fower Voltage-VMPP (V)	29.8	30.1	30.4	30.6
Fergus Mu	,,,,,,,,	Maximum Power Current-IMPP (A)	7.24	7.29	7.35	7.42
		oropheandifeoghernistGigertVOC(V)	36.5	36.9	37.2	37.4
1 October		Short Circuit Current-ISC (A)	7.69	7.74	7.80	7.88

NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

#### **MECHANICAL DATA**

Solar Cells	Multicrystalline
Cell Orientation	120 cells (6 × 20)
Module Dimensions	1698 × 1004 × 35 mm (66.85 × 39.53 × 1.38 inches)
Weight	18.7kg (41.2 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	White
Frame	35 mm (1.38 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: N 140mm/P 285mm(5.51/11.22inches) Landscape: N 1200 mm /P 1200 mm (47.24/47.24 inches)
Connector	TS4 / MC4 EVO2

### **TEMPERATURE RATINGS**

NMOT (Nominal Module OperatingTemperature)	41°C (±3°C)
Temperature Coefficient of PMAX	- 0.38%/°C
Temperature Coefficient of VOC	- 0.31%/°C
Temperature Coefficient of ISC	0.05%/°C

Max Series Fuse Rating

**MAXIMUM RATINGS** 

Operational Temperature -40~+85°C Maximum System Voltage 1500V DC (IEC) 1500V DC (UL) 20A

(DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection)

### WARRANTY

10 year Product Workmanship Warranty

25 year Linear Power Warranty

(Please refer to product warranty for details)

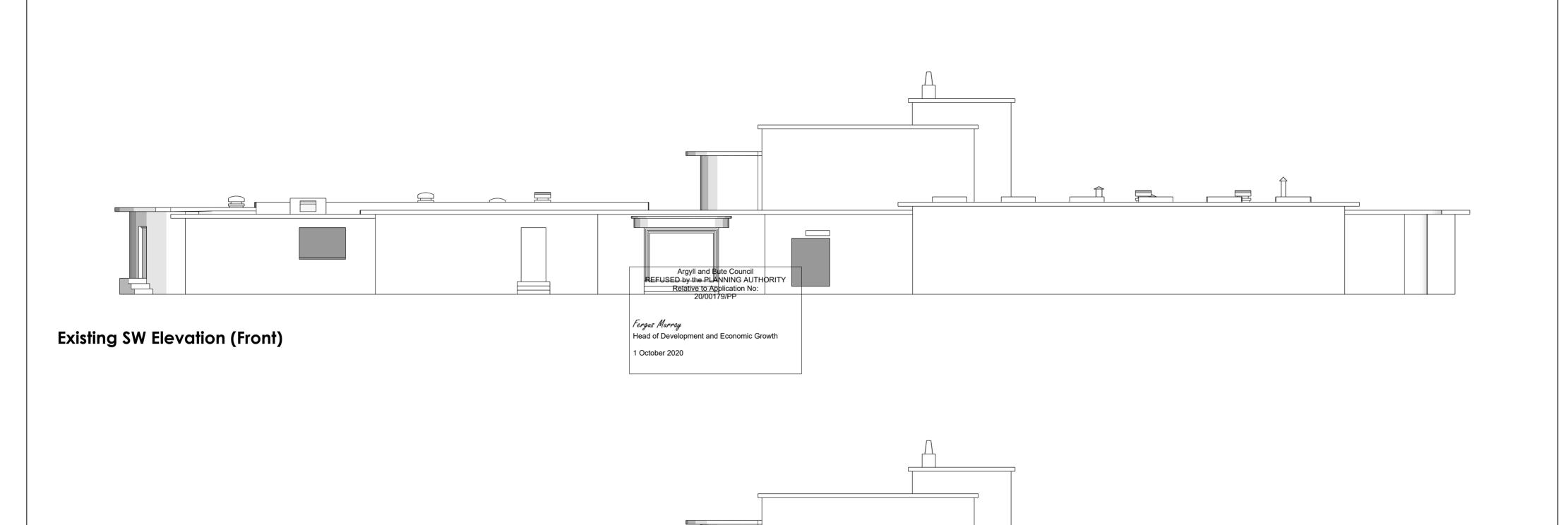
# PACKAGING CONFIGURATION

Modules per box: 30 pieces

Modules per 40' container: 720 pieces



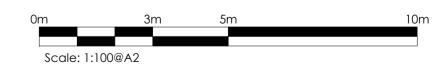








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