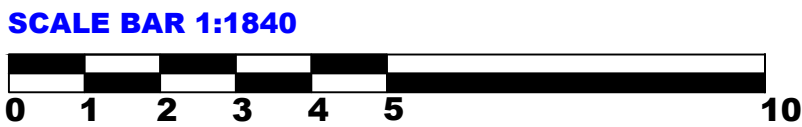


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Isobella Lucic
Authorised Officer
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SYSTEM SPECIFICATION

GRID CONNECTION VOLTAGE	22kV
DC CAPACITY (25°C)	6.732 MWp
INVERTER CAPACITY (25°C)	4.998 MW
GRID DC/AC RATIO	1.349
INVERTER / MV STATION	SMA SC2660UP MVPS2660-S2
No. INVERTER / MV STATION	2
PV MODULE	RSM120-8-600BMDG
No. MODULES	11220
No. MODULES PER STRING	33
No. STRINGS	340
TRACKER PITCH	8 m
No. 66 MODULE TRACKERS	170
No. 33 MODULE TRACKERS	0



BESS POWER	1020 kW
BESS CAPACITY	2042.88 kWh
CHARGING/DISCHARGING HOURS	2 HOURS
DC-DC CONVERTER	SMA DC-DC CONVERTER
DC-DC CONVERTER CAPACITY	600 kW MAX
No. DC-DC CONVERTER	2 (1 FOR EACH INVERTER)
BATTERY CABINET	SU340U85K
No. BATTERY CABINET	6 (3 FOR EACH INVERTER)
BATTERY CABINET POWER	170 kW
BATTERY CABINET VOLTAGE	1216 V
BATTERY CABINET CAPACITY	340.48 kWh
LAND AREA	35.5 Ha
SITE AREA	19.7 Ha

NOTES

1. THIS LAYOUT IS FOR PLANNING PURPOSE ONLY SUBJECT TO CHANGE.
2. PARTIAL LAND LOT TO BE USED FOR SOLAR FARM.
3. INVERTER STATION AND HV SWITCHGEAR LOCATION TO BE CONFIRMED DURING DETAIL DESIGN.
4. SVG TO BE CONFIRMED IF REQUIRED BY ESSENTIAL ENERGY.
5. 22kV GRID CONNECTION POINT TO BE CONFIRMED BY ESSENTIAL ENERGY.
6. OVERHEAD POWER LINE FROM HV SWITCHGEAR TO POC TO BE CONFIRMED DURING DETAIL DESIGN.
7. 10 METERS WIDE INTERNAL CLEARANCE AND APZ WITH EXTRA INTERNAL ROAD FOR FIRE BREAK.
8. 4 METERS WIDE INTERNAL UNSEALED OR SEALED ROAD.
9. 5 METERS WIDE SCREENING BUFFER TO BE CONFIRMED DURING DETAIL LANDSCAPING DESIGN.
10. SITE ENTRY GATES AND ACCESS ROAD TO BE CONFIRMED DURING CONSTRUCTION PERIOD.

LEGEND

- INTERNAL CLEARANCE
- APZ AND FIRE BREAK BUFFER
- VEGETATION ZONE
- SCREENING BUFFER
- POWER LINE EASEMENT BUFFER
- LAYDOWN AND SITE OFFICE AREA
- HERITAGE PROTECTION ZONE
- INVERTER STATION HV SWITCHGEAR SVG
- METEOROLOGICAL (MET) STATION
- CCTV SURVEILLANCE CAMERA
- EXISTING MAJOR TREES
- SITE BOUNDARY PERIMETER FENCE
- EXISTING FENCE
- INTERNAL SEALED OR UNSEALED ROAD
- PUBLIC ROAD
- OVERHEAD POWER LINE
- TELSTRA COMMUNICATIONS LINE
- RAILWAY
- DRAIN AND WATERWAY



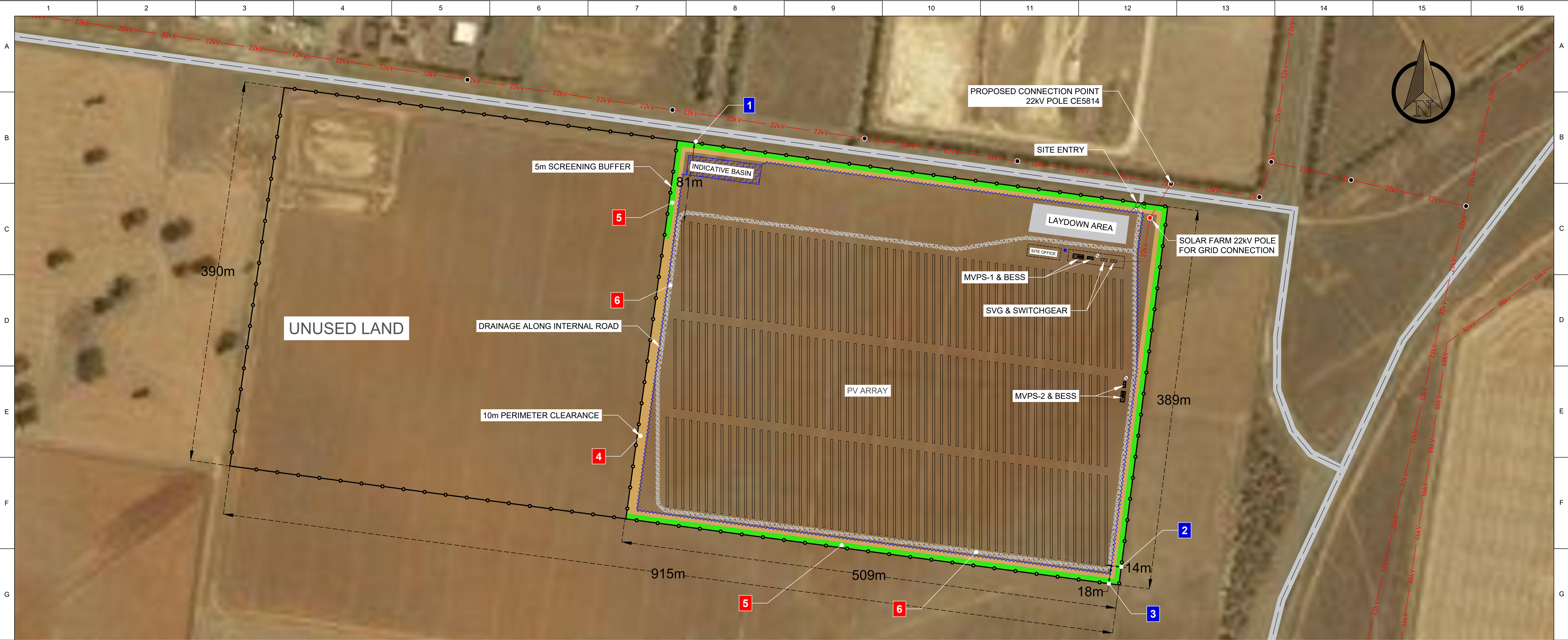
PROJECT
MOAMA SOLAR FARM
LOT 590 HILL SIDE ROAD
MOAMA NSW 2630

CLIENT
RISEN ENERGY AUSTRALIA

CHECK
DESIGNER WILSON JIN
DRAFTER WILSON JIN
PROJECT MANAGER SABINA SCHARFE
PROJECT DIRECTOR LENA LI

REVISION	DATE	CHECKED BY	APPROVED BY
1.0 INITIAL DRAFT	2021/10/21	-	-
1.1 CONNECTION POINT CHANGED	2021/03/25	-	-
1.2 LAND LOT HALVED TO EAST	2021/04/27	-	-
1.3 PV CAPACITY REDESIGNED	2021/07/06	-	-
2.0 LAYOUT ADJUSTED	2021/10/13	-	-
-	-	-	-
-	-	-	-

TITLE	REVISION	PAGE
GENERAL LAYOUT	2.0	1 / 2
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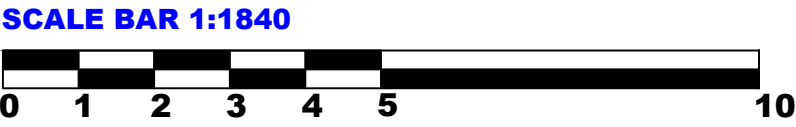


SETBACK

- 1 NORTH BOUNDARY SETBACK - 81m FROM PV MODULE TO SITE BOUNDARY
- 2 EAST NEIGHBORHOOD SETBACK - 14m FROM PV MODULE
- 3 SOUTH NEIGHBORHOOD SETBACK - 18m FROM PV MODULE
- 4 INTERNAL CLEARANCE PERIMETER BUFFER AND APZ FIRE BREAK ZONE - 10m WIDE
- 5 TREES SCREENING BUFFER - 5m WIDE
- 6 INTERNAL ROAD - 4m WIDE

SETBACK DISTANCES TO BE CONFIRMED BASED ON CONSTRUCTION SURVEY.

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LEGEND

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- APZ AND FIRE BREAK BUFFER
- VEGETATION ZONE
- SCREENING BUFFER
- POWER LINE EASEMENT BUFFER
- LAYDOWN AND SITE OFFICE AREA
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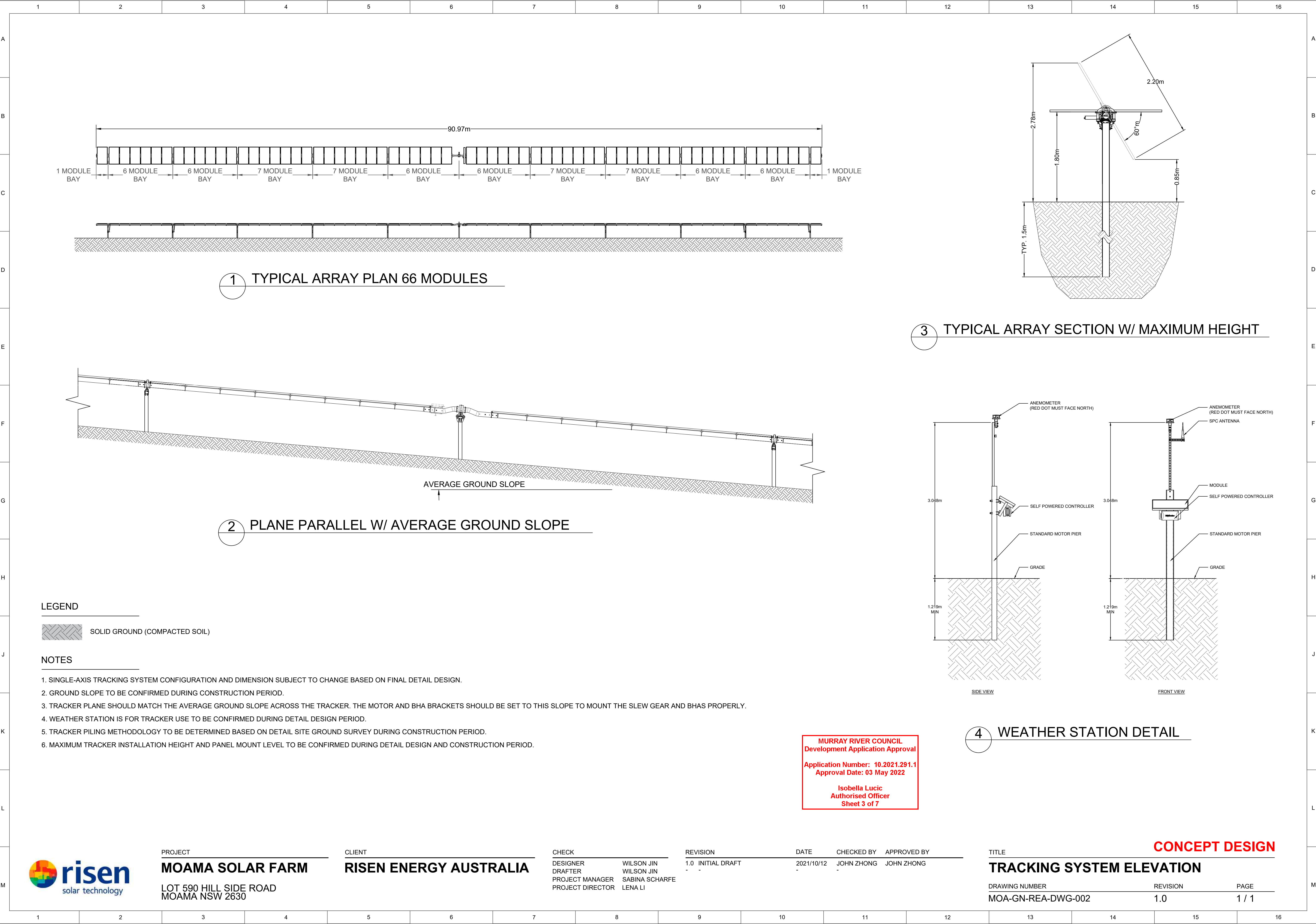
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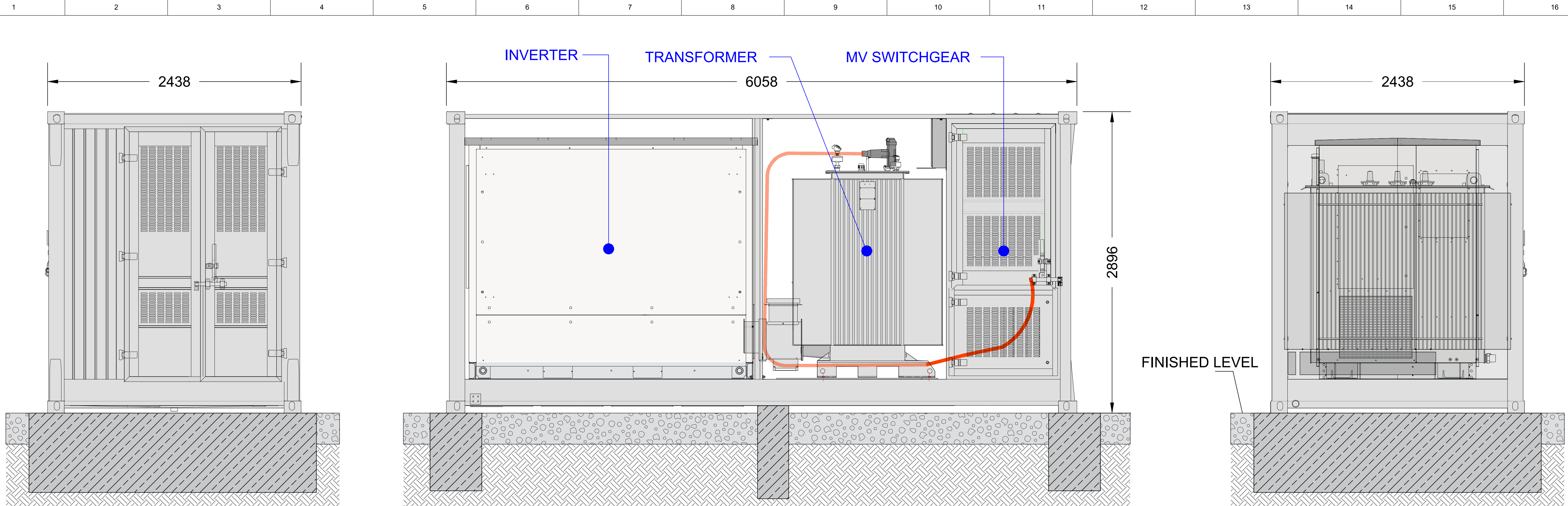
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- -

DATE
2021/10/12
- -

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JOHN ZHONG
- -

APPROVED BY
JOHN ZHONG
- -

TITLE
CONCEPT DESIGN
TRACKING SYSTEM ELEVATION
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FINISHED LEVEL

2 REAR VIEW

1 RIGHT VIEW

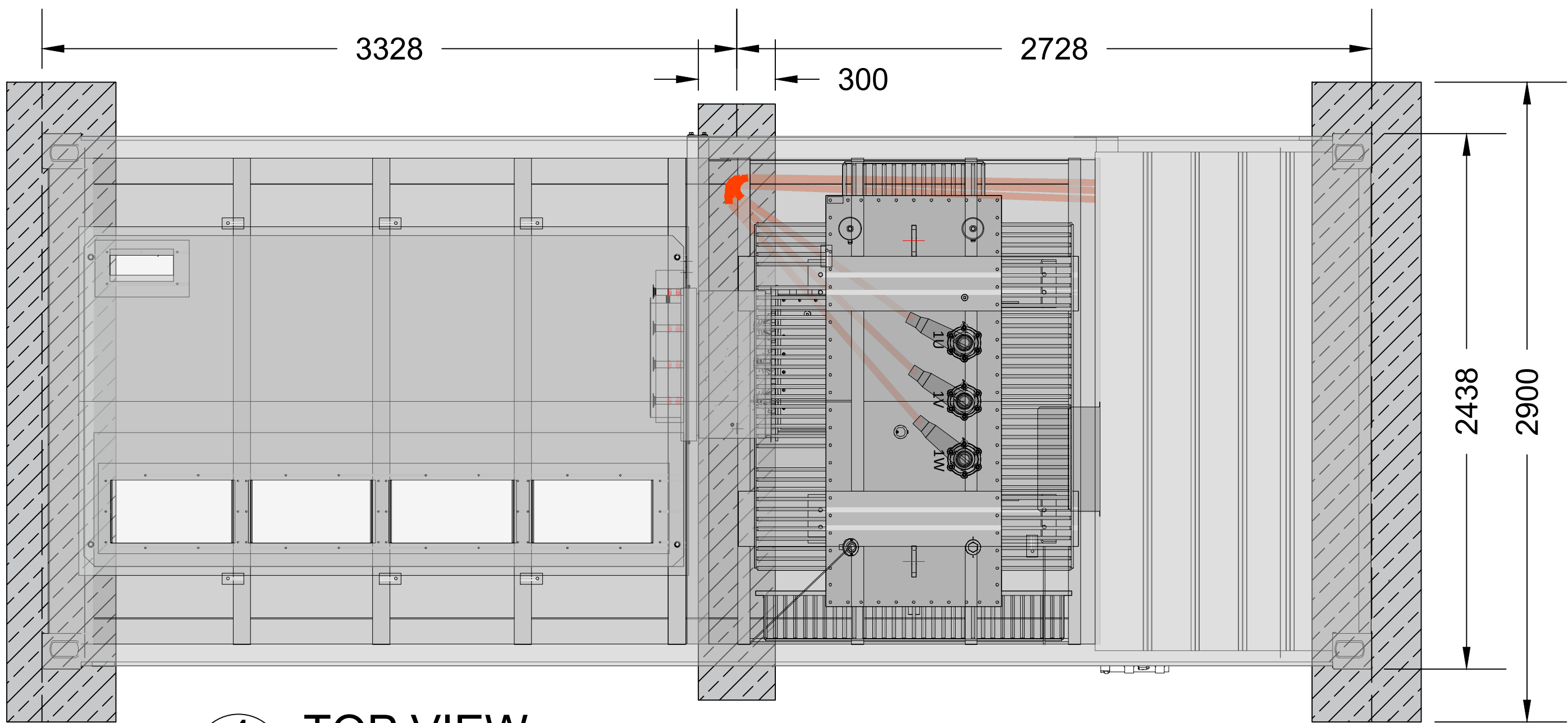
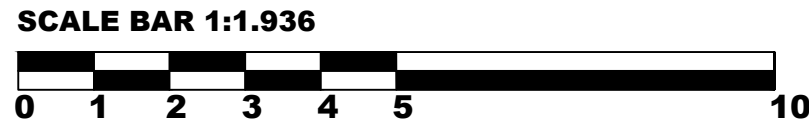
3 FRONT VIEW

LEGEND

- PEA GRAVEL GROUND
- SOLID GROUND (COMPACTED SOIL)
- STRIP FOUNDATION

NOTES

1. MOUNTING OPTION WITH STRIP FOUNDATIONS (DIMENSIONS IN mm)
2. STRIP FOUNDATIONS MUST BE SUITABLE FOR WEIGHT OF PRODUCT
3. STRIP FOUNDATIONS MUST BE PLACED ON SOLID GROUND
4. FOUNDATIONS SIZE TO BE DETERMINED BY GROUND CONDITIONS
5. ACTUAL ELEVATION AND FOUNDATIONS TO BE DETERMINED DURING DETAIL DESIGN PERIOD



4 TOP VIEW

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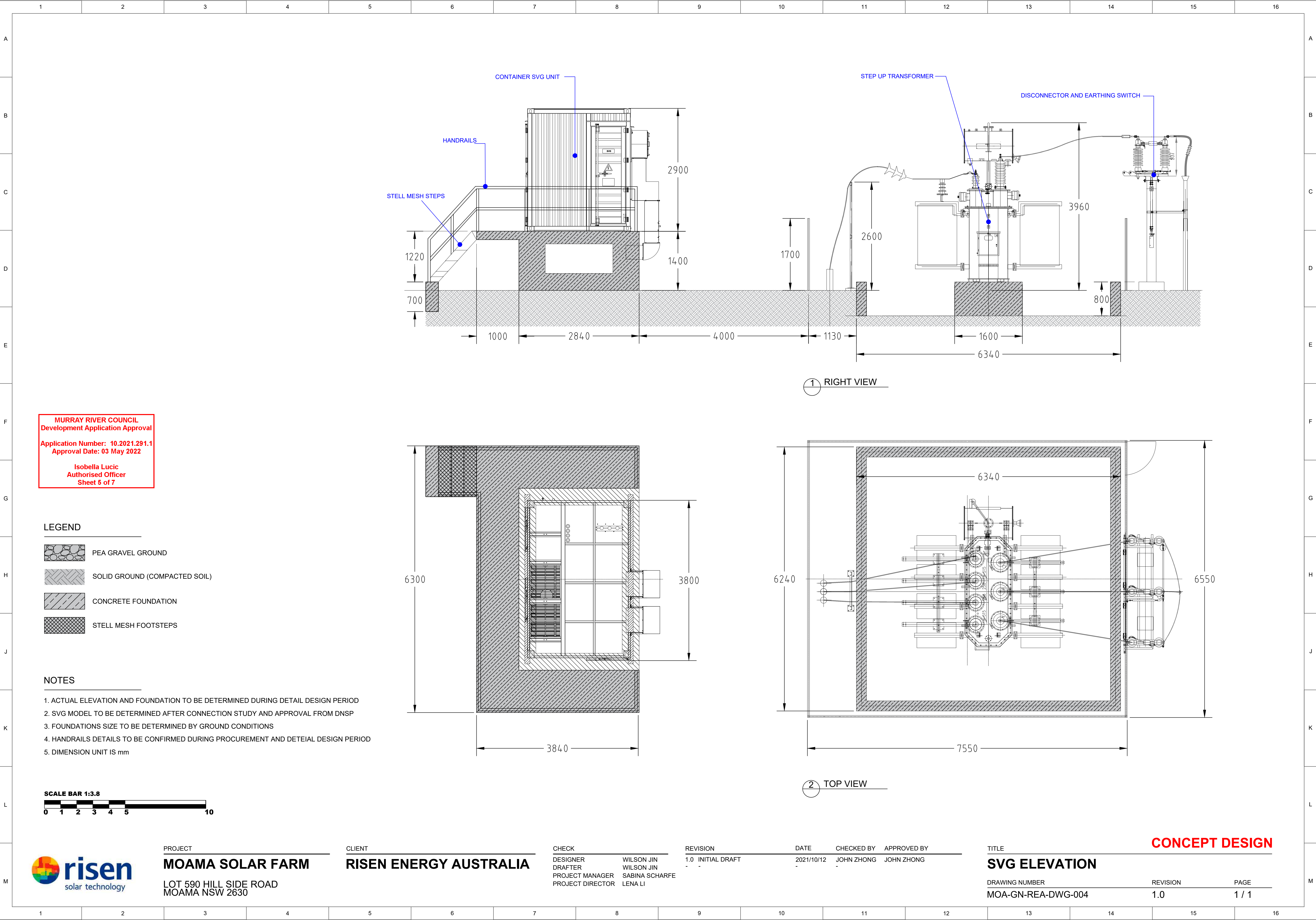
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DATE 2021/10/12
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TITLE
CONCEPT DESIGN
INVERTER STATION ELEVATION

DRAWING NUMBER MOA-GN-REA-DWG-003
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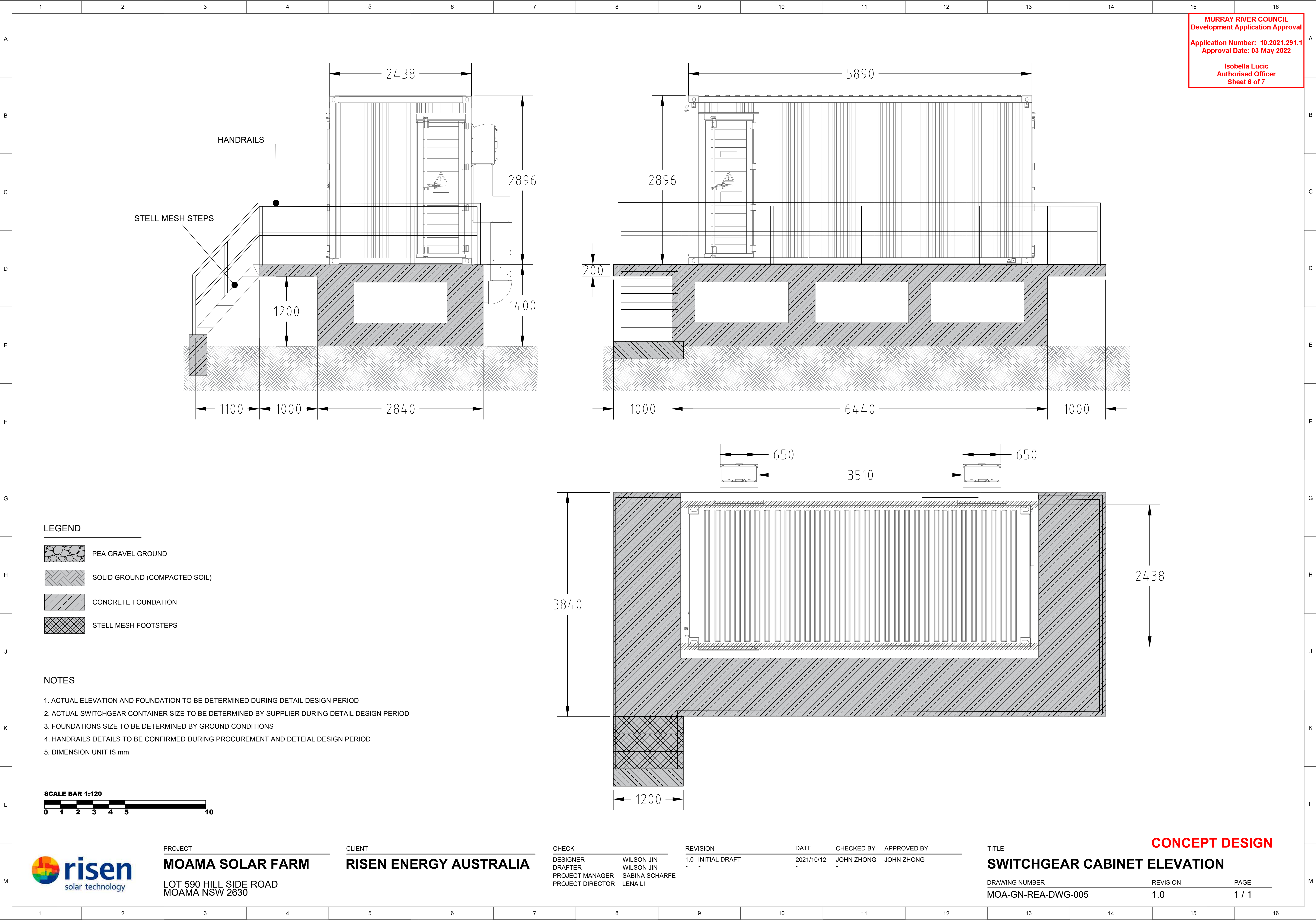
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SVG ELEVATION

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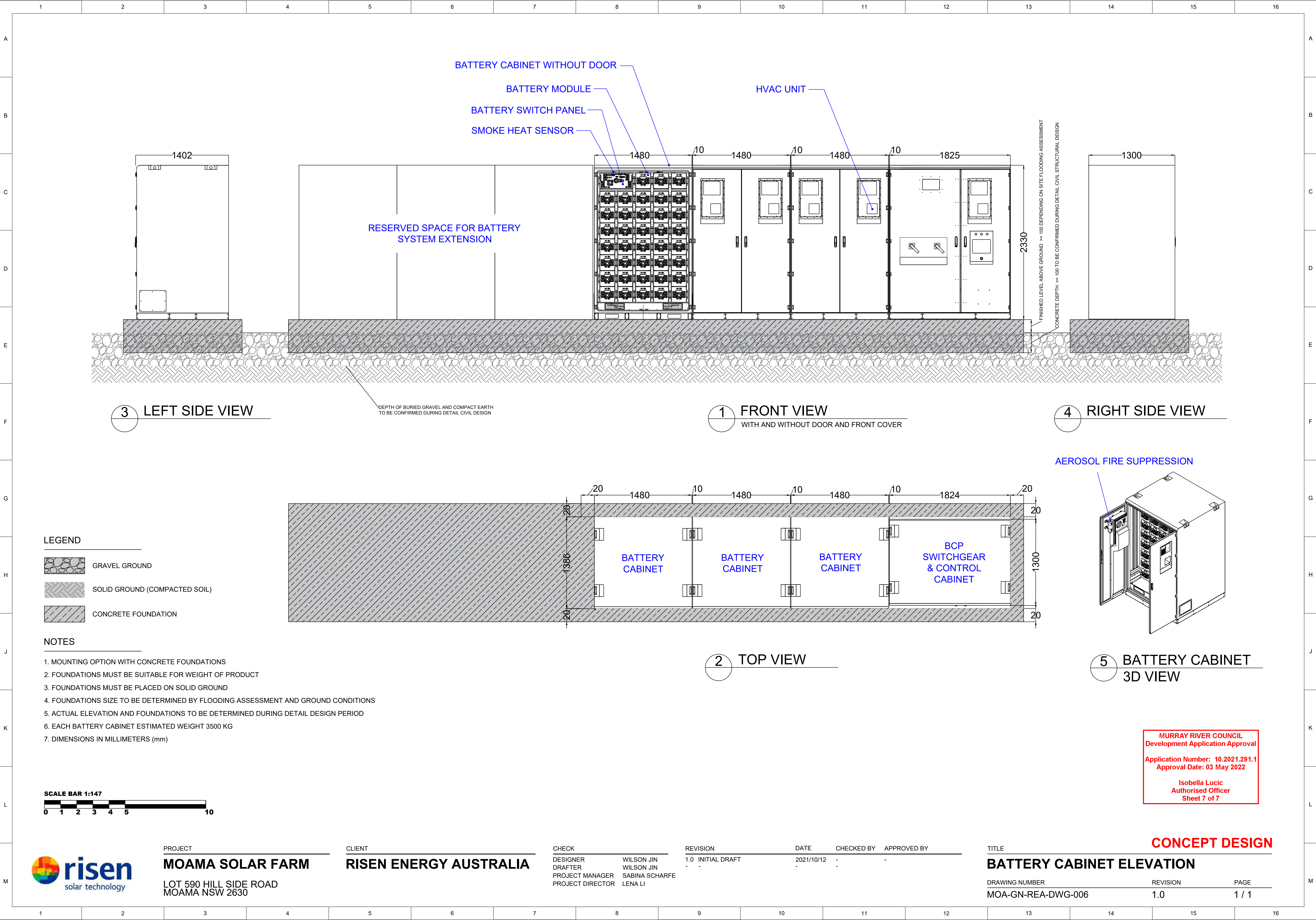
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