



AVONLIE SOLAR FARM

SITE LAYOUT

CONTAINS INFORMATION FROM STATE OF NEW SOUTH WALES (DEPARTMENT OF NATURAL RESOURCES AND MINES) 2017.

LEGEND

- SOLAR TRACKER
- POWER CONVERSION UNIT WITH HARDSTANDING
- TEMPORARY CONSTRUCTION COMPOUND AND LAYDOWN
- PROPOSED NEW ACCESS TRACK
- SITE ENTRANCE
- SECURITY FENCE
- POINT OF CONNECTION
- PROPOSED TRANSFORMER AND UTILITY AREA
- PROPOSED BATTERY STORAGE
- TRANSGRID SUBSTATION
- 132kV POWERLINE (TRANSGRID)
- TRANSGRID EASEMENT CORRIDOR
- SITE BOUNDARY



NOTES:
1. LAYOUT SHOWN IS INDICATIVE AND SUBJECT TO FINAL DESIGN BUT WILL BE GENERALLY IN ACCORDANCE WITH THIS DRAWING.

INFRAS DWG	N/A	APPD DATE	20-04-2018
LAYOUT DWG	N/A	LAYOUT NO.	INFRAStructure04_20180418

DRAWING NUMBER
03819D1001-02

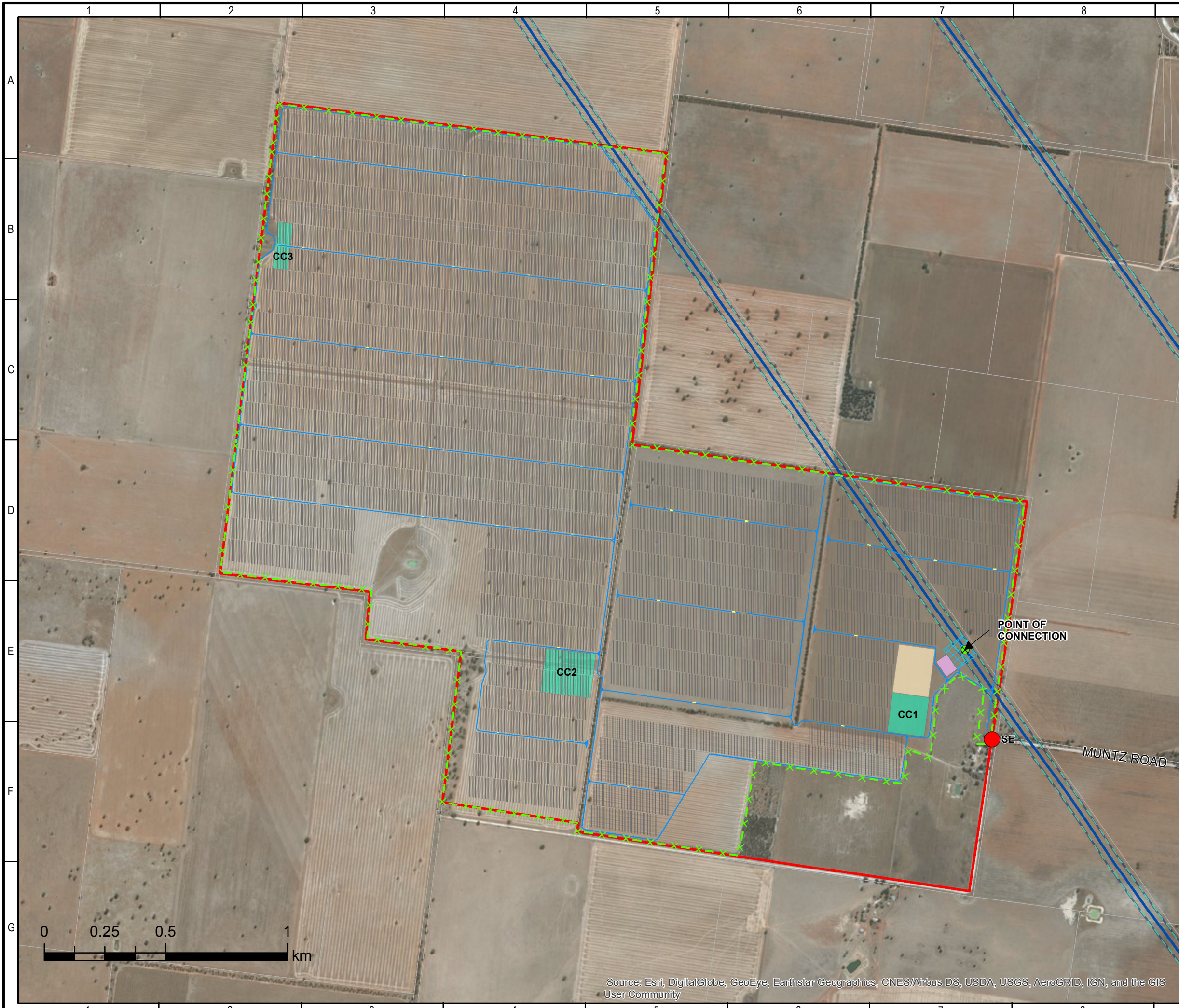
SCALE - 1:15,000 @ A3

COORDS
GDA 1994 MGA Zone 55

PLANNING PERMIT APPLICATION

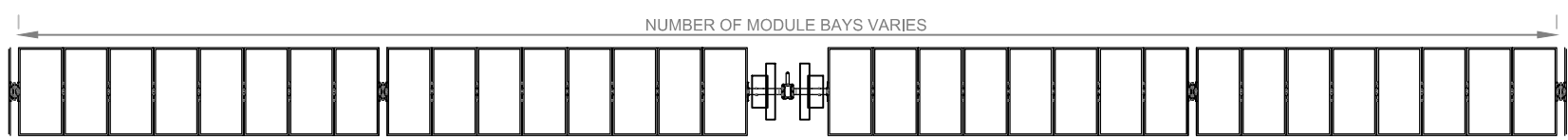
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TEL +61 (0)2 8440 7400
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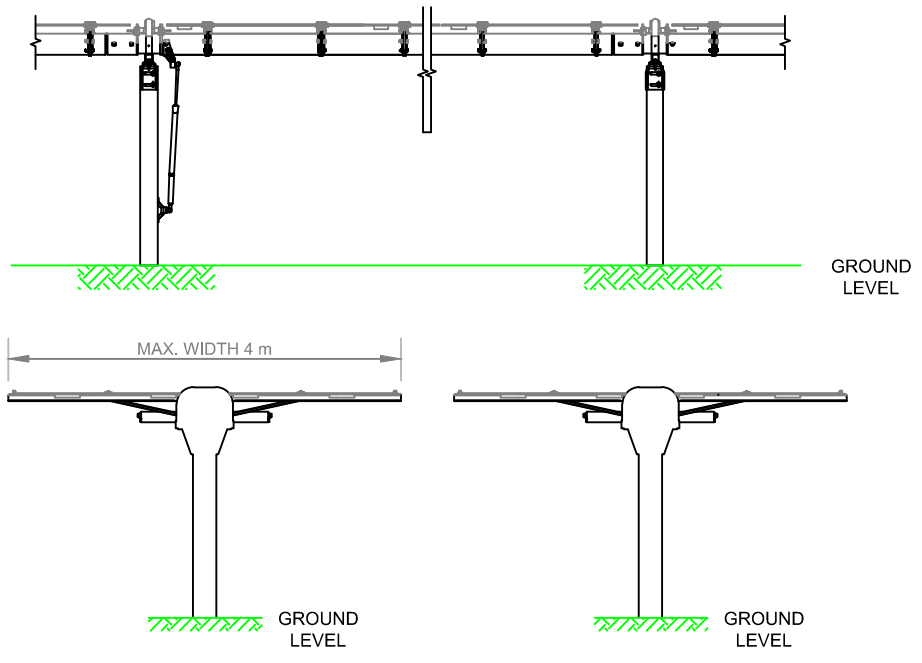


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

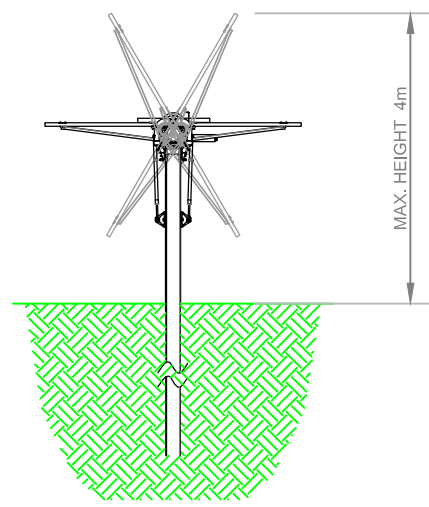
TYPICAL TRACKER ROW



TYPICAL SOLAR ARRAY TABLE
NORTH AND EASTERN ELEVATION



TYPICAL RACKING
MAXIMUM HEIGHT



SOLAR FARM
TECHNICAL FIGURE 1
SINGLE AXIS TRACKER

NOTES:

1. GROUND CLEARANCE WILL VARY AS REQUIRED BY TOPOGRAPHY;
2. ROW LENGTH WILL VARY DEPENDING ON ELECTRICAL DESIGN;
3. INDICATIVE ROW LENGTH COULD BE UP TO 100m;
4. PV MODULES COULD BE INSTALLED IN PORTRAIT OR LANDSCAPE. ORIENTATION AND NUMBER WILL DEPEND ON THE MODULE AND TRACKER TYPE;
5. THE PILE DEPTH SHALL BE DETERMINED FOLLOWING DETAILED GEOTECHNICAL SITE INVESTIGATION, TYPICALLY UP TO 2.4m. PILE HEIGHTS WILL CHANGE TO ACCOMMODATE THE GRADE, SUBJECT TO GEOTECHNICAL DESIGN;
6. ACTUATOR TYPE AND LOCATION MAY VARY;
7. THE FINAL CONFIGURATION MAY BE SUBJECT TO CHANGE IN THE DETAILED DESIGN PHASE, BUT WILL BE GENERALLY IN ACCORDANCE WITH THIS DRAWING;
8. ACTUATOR TECHNOLOGY SUBJECT TO FINAL DESIGN.

INFRA DWG	N/A	APPD DATE	02/08/2017
LAYOUT DWG	N/A	T-LAYOUT NO.	N/A

DRAWING NUMBER
03707D2206-01

SCALE - N.T.S @A3

COORDS N/A

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SOLAR FARM
TECHNICAL FIGURE 4
TYPICAL POWER
CONVERSION UNIT - PCU

- NOTES:
1. ALL DIMENSIONS ARE MAXIMUM ANTICIPATED AND SUBJECT TO DETAILED DESIGN;
 2. ROOM AND DOOR POSITIONS ARE INDICATIVE AND SUBJECT TO DETAILED DESIGN;
 3. APPROXIMATE FINISHED FLOOR LEVEL 300mm ABOVE EXISTING GROUND.

INFRA DWG	N/A	APPD DATE	08-12-2016
LAYOUT DWG	N/A	T-LAYOUT NO.	N/A

DRAWING NUMBER
03707D4001-02

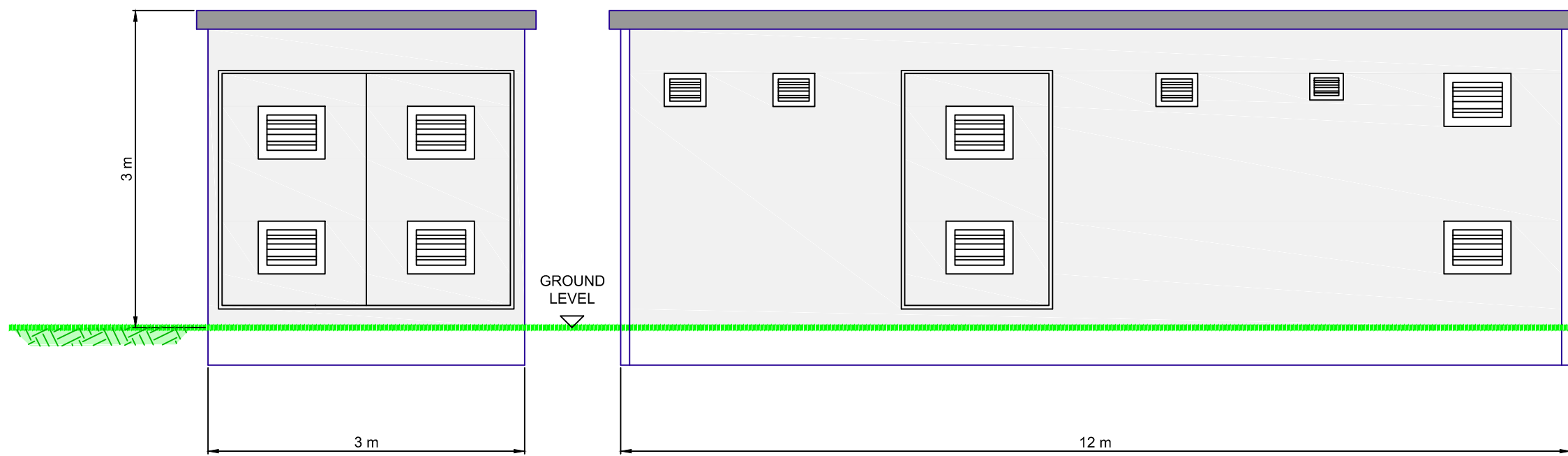
SCALE - N.T.S A3

COORDS N/A

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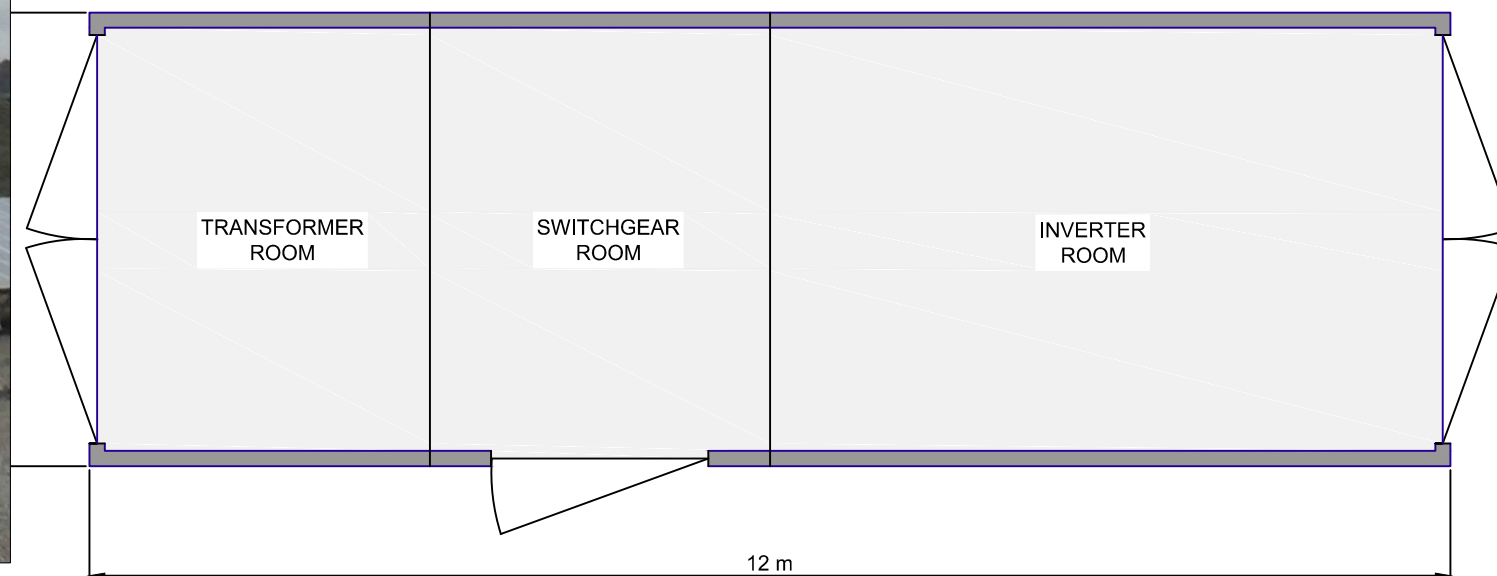
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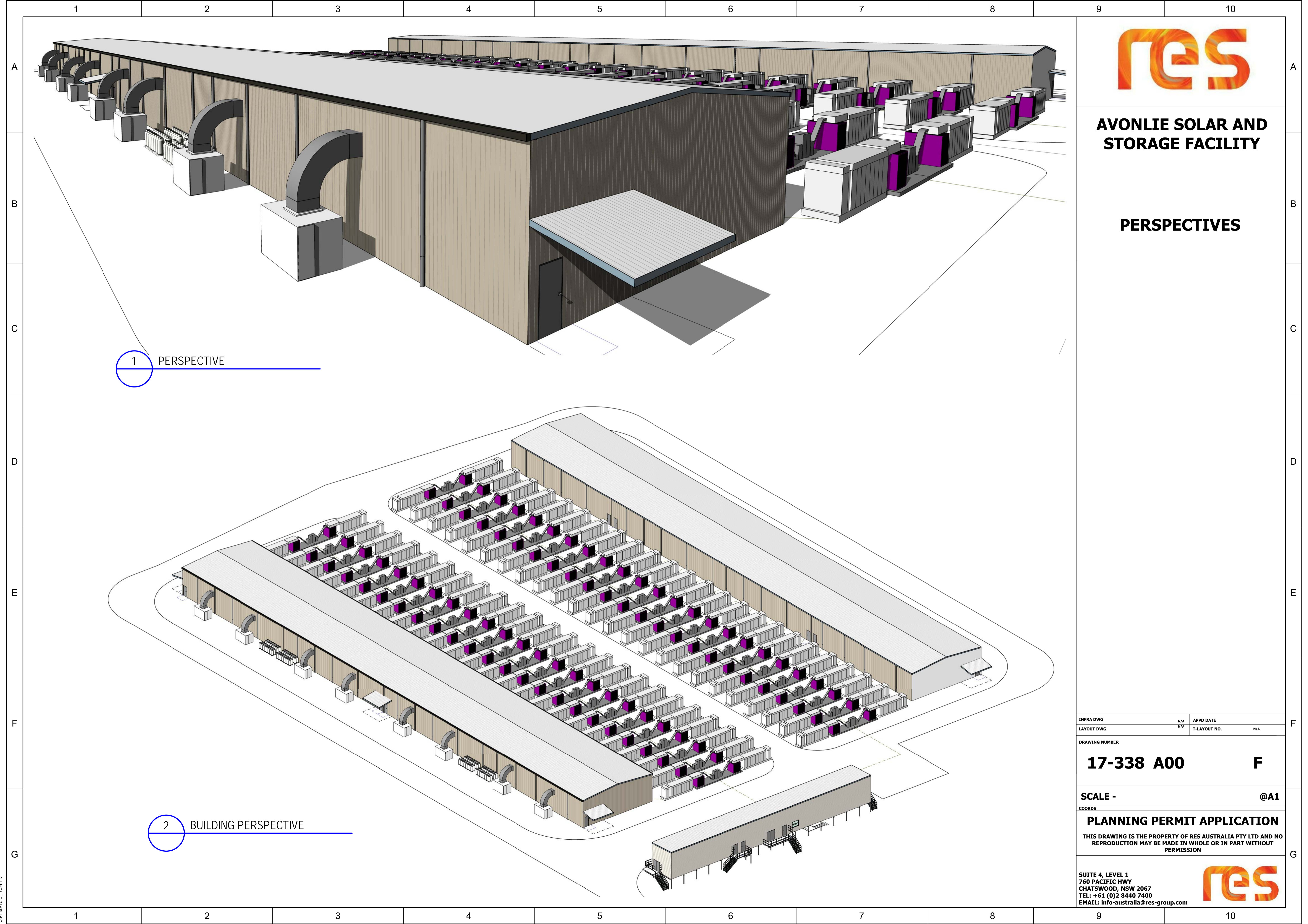


END ELEVATION

SIDE ELEVATION



PLAN



1 PERSPECTIVE

2 BUILDING PERSPECTIVE



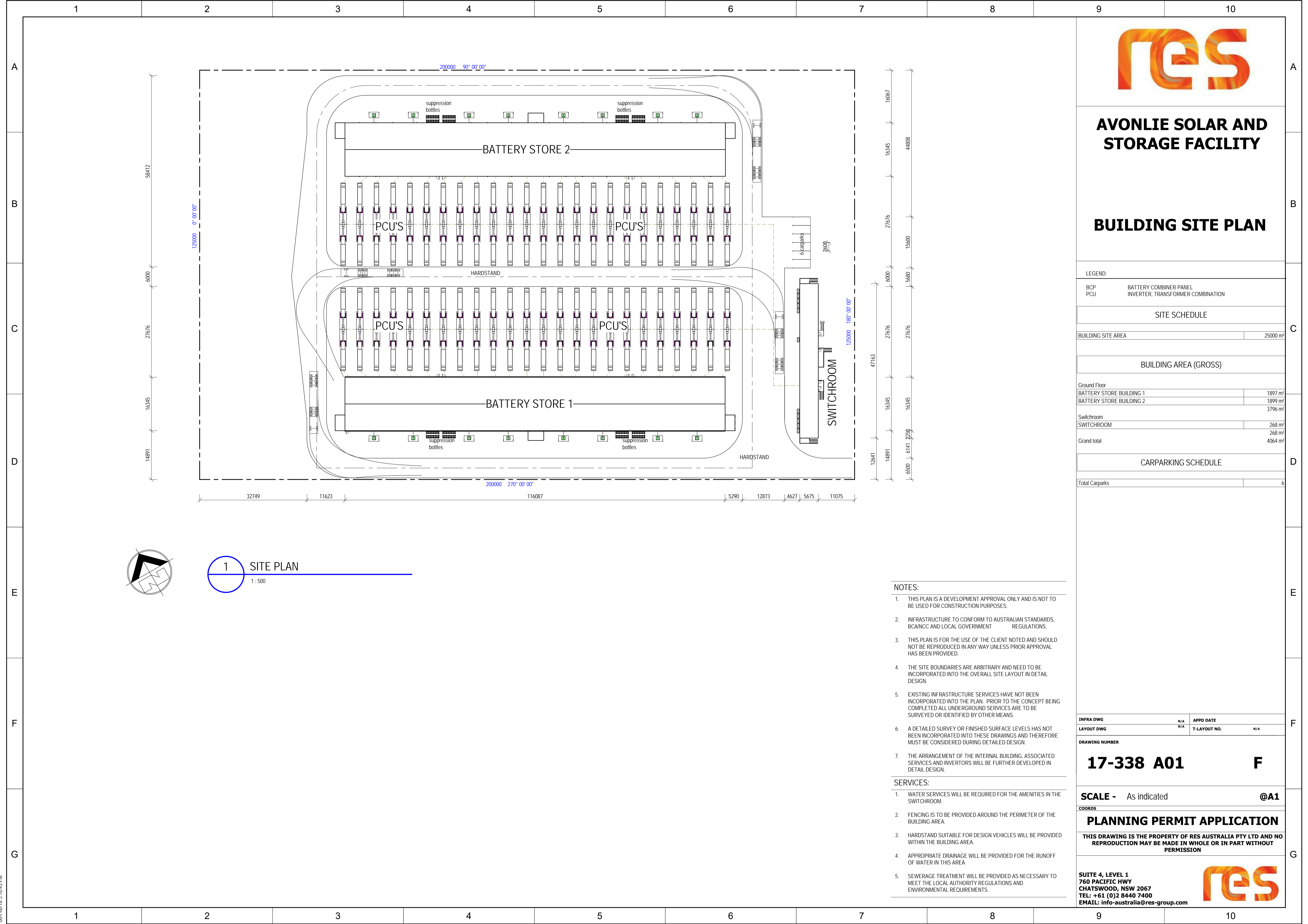
AVONLIE SOLAR AND STORAGE FACILITY

PERSPECTIVES

INFRA DWG	N/A	APPD DATE	N/A
LAYOUT DWG	N/A	T-LAYOUT NO.	N/A
DRAWING NUMBER			
17-338 A00		F	
SCALE -		@A1	
COORDS			
PLANNING PERMIT APPLICATION			
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1 SITE PLAN
1:500

NOTES:

- THIS PLAN IS A DEVELOPMENT APPROVAL ONLY AND IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.
- INFRASTRUCTURE TO CONFORM TO AUSTRALIAN STANDARDS, BCANCC AND LOCAL GOVERNMENT REGULATIONS.
- THIS PLAN IS FOR THE USE OF THE CLIENT NOTED AND SHOULD NOT BE REPRODUCED IN ANY WAY UNLESS PRIOR APPROVAL HAS BEEN PROVIDED.
- THE SITE BOUNDARIES ARE ARBITRARY AND NEED TO BE INCORPORATED INTO THE OVERALL SITE LAYOUT IN DETAIL DESIGN.
- EXISTING INFRASTRUCTURE SERVICES HAVE NOT BEEN INCORPORATED INTO THE PLAN. PRIOR TO THE CONCEPT BEING COMPLETED ALL UNDERGROUND SERVICES ARE TO BE SURVEYED OR IDENTIFIED BY OTHER MEANS.
- A DETAILED SURVEY OR FINISHED SURFACE LEVELS HAS NOT BEEN INCORPORATED INTO THESE DRAWINGS AND THEREFORE MUST BE CONSIDERED DURING DETAILED DESIGN.
- THE ARRANGEMENT OF THE INTERNAL BUILDING, ASSOCIATED SERVICES AND INVERTORS WILL BE FURTHER DEVELOPED IN DETAIL DESIGN.

SERVICES:

- WATER SERVICES WILL BE REQUIRED FOR THE AMENITIES IN THE SWITCHROOM.
- FENCING IS TO BE PROVIDED AROUND THE PERIMETER OF THE BUILDING AREA.
- HARDSTAND SUITABLE FOR DESIGN VEHICLES WILL BE PROVIDED WITHIN THE BUILDING AREA.
- APPROPRIATE DRAINAGE WILL BE PROVIDED FOR THE RUNOFF OF WATER IN THIS AREA
- SEWERAGE TREATMENT WILL BE PROVIDED AS NECESSARY TO MEET THE LOCAL AUTHORITY REGULATIONS AND ENVIRONMENTAL REQUIREMENTS.



AVONLIE SOLAR AND STORAGE FACILITY

BUILDING SITE PLAN

LEGEND:

BCP BATTERY COMBINER PANEL
PCU INVERTER, TRANSFORMER COMBINATION

SITE SCHEDULE

BUILDING SITE AREA	25000 m ²
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BUILDING AREA (GROSS)

Ground Floor	
BATTERY STORE BUILDING 1	1897 m ²
BATTERY STORE BUILDING 2	1899 m ²
	3796 m ²
Switchroom	
SWITCHROOM	268 m ²
	268 m ²
Grand total	4064 m²

CARPARKING SCHEDULE

Total Carparks	6
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INFRA DWG	N/A	APPD DATE	N/A
LAYOUT DWG	N/A	T-LAYOUT NO.	N/A

DRAWING NUMBER
17-338 A01 F

SCALE - As indicated **@A1**

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AVONLIE SOLAR AND STORAGE FACILITY

TYPICAL BATTERY STORAGE ROOM

LEGEND:

BCP	BATTERY COMBINER PANEL
PCU	INVERTER, TRANSFORMER COMBINATION

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LAYOUT DWG	N/A	T-LAYOUT NO.	N/A

DRAWING NUMBER

17-338 A02

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SCALE - 1 : 100

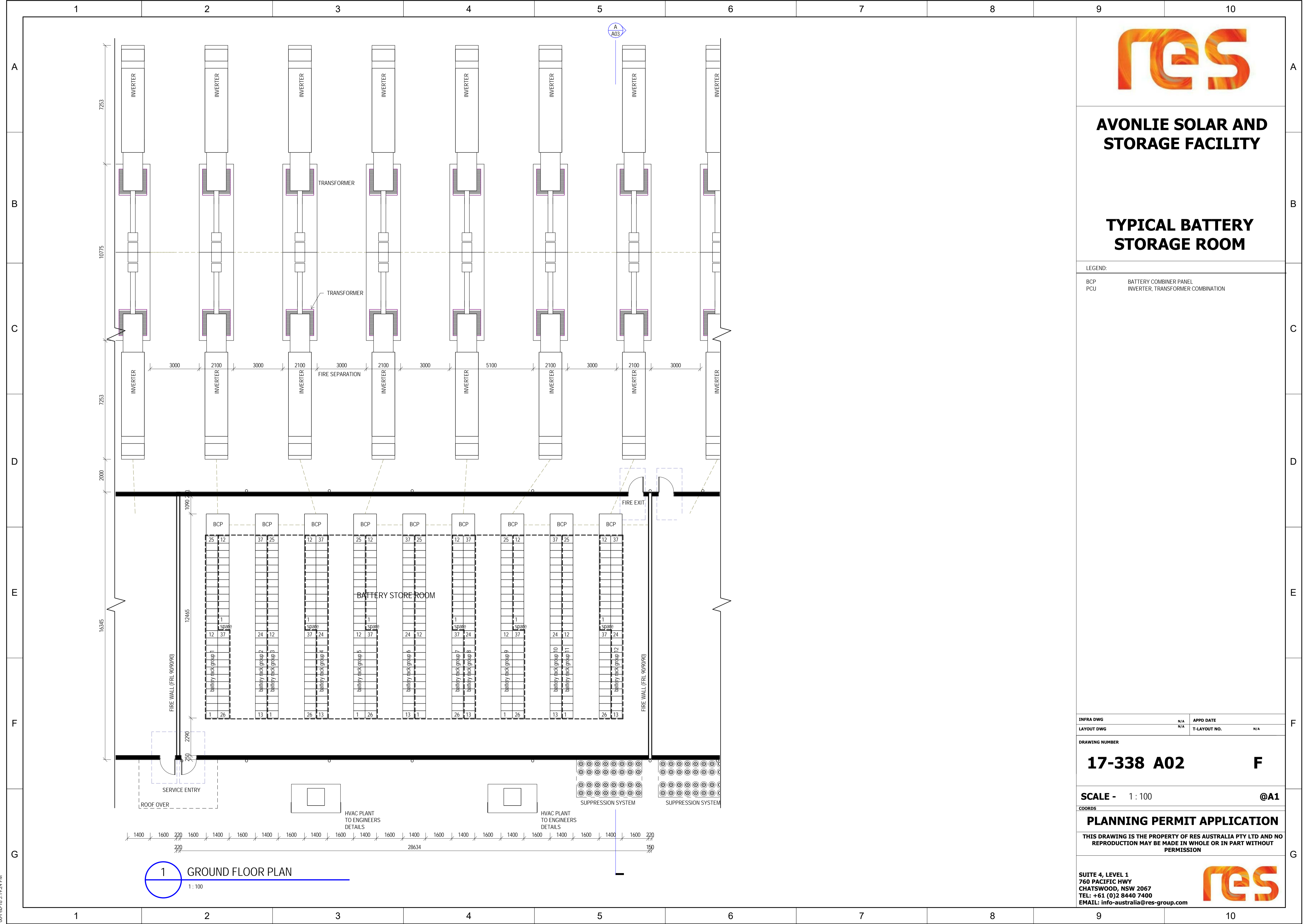
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COORDS

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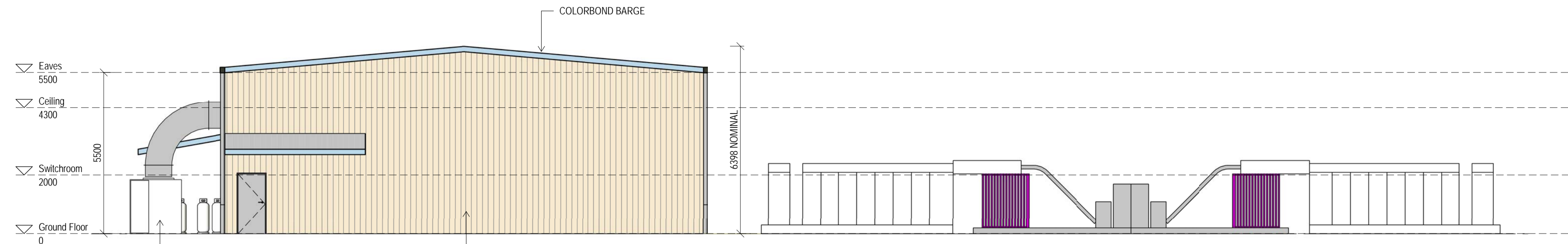
1 GROUND FLOOR PLAN
 1 : 100

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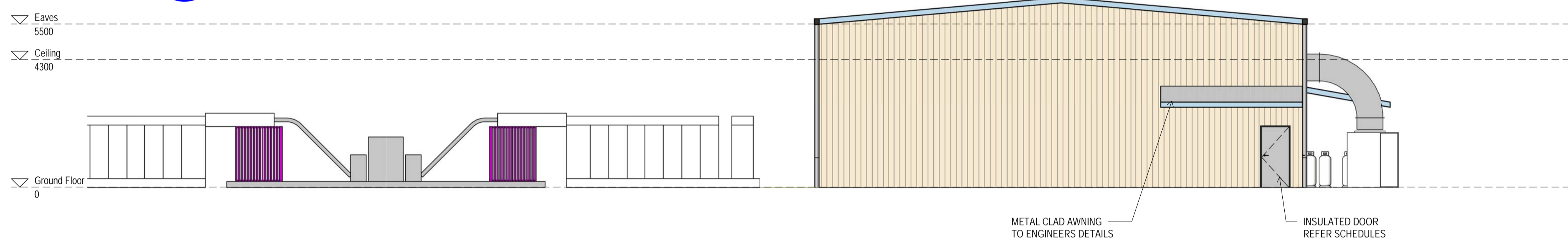


AVONLIE SOLAR AND STORAGE FACILITY

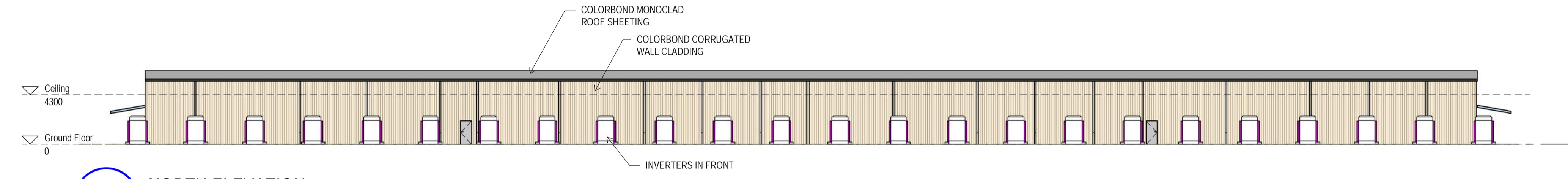
BATTERY STORE BUILDING ELEVATIONS



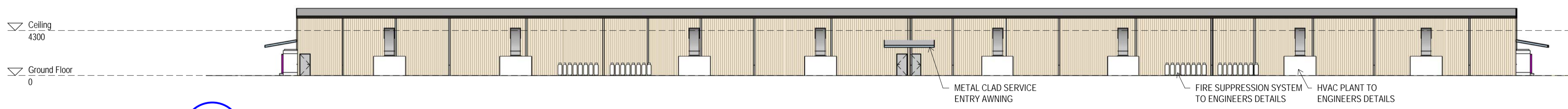
1 EAST ELEVATION
1:100



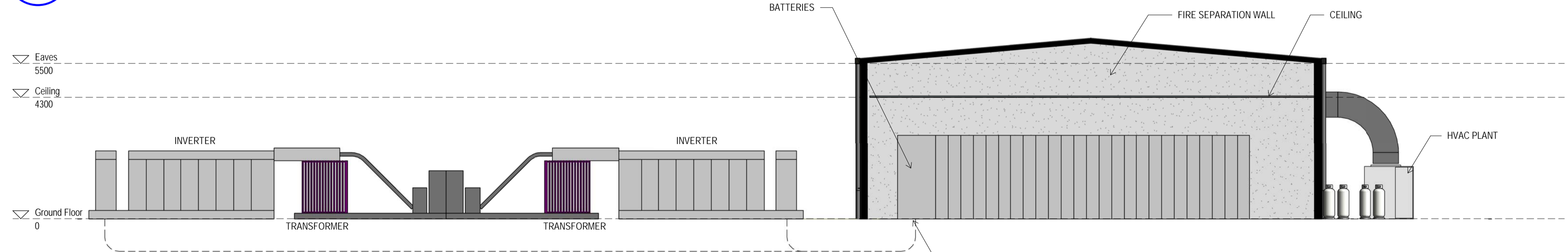
3 WEST ELEVATION
1:100



2 NORTH ELEVATION
1:250



4 SOUTH ELEVATION
1:250



A BUILDING SECTION
A02 1:100

INFRA DWG	N/A	APPD DATE	N/A
LAYOUT DWG	N/A	T-LAYOUT NO.	N/A
DRAWING NUMBER		17-338 A03	
SCALE - As indicated		@A1	
COORDS			
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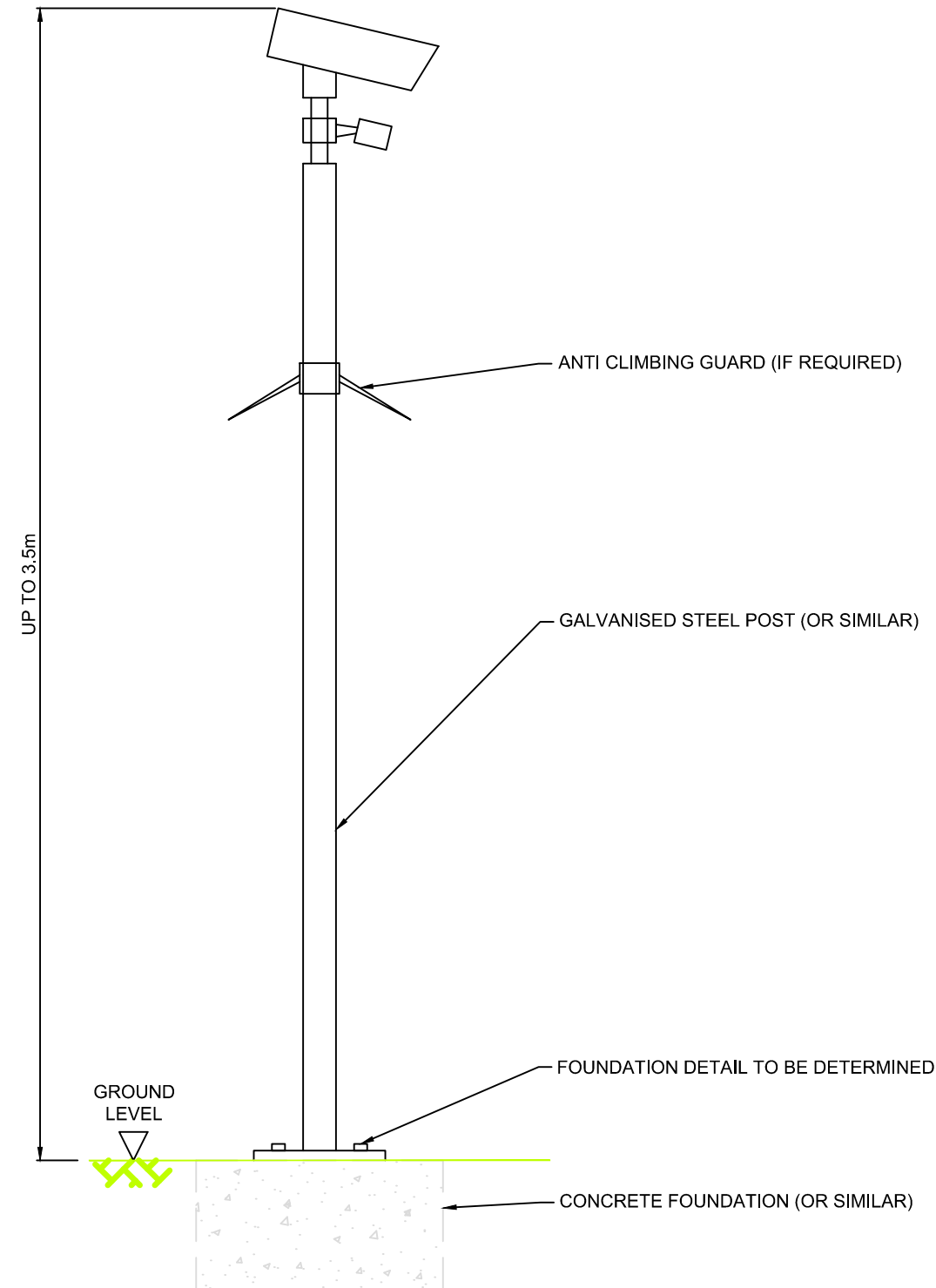
SOLAR FARM

TECHNICAL FIGURE 6

TYPICAL SECURITY LIGHTING & CCTV SUPPORT DETAILS

NOTES:

1. ALL DIMENSIONS ARE MAXIMUM ANTICIPATED AND SUBJECT TO DETAILED DESIGN;
2. SECURITY LIGHTING MAY BE INFRARED;
3. LIGHTING AND CCTV SUPPORTS TO BE LOCATED ADJACENT TO SECURITY FENCING;
4. CAMERAS MAY BE INSTALLED WITH PAN FUNCTION;
5. TO BE INSTALLED IF REQUIRED BY INSURERS.



INFRA DWG	N/A	APPD DATE	08-12-2016
LAYOUT DWG	N/A	T-LAYOUT NO.	N/A

DRAWING NUMBER
03707D2201-02

SCALE - N.T.S. A3

COORDS N/A

PLANNING PERMIT APPLICATION

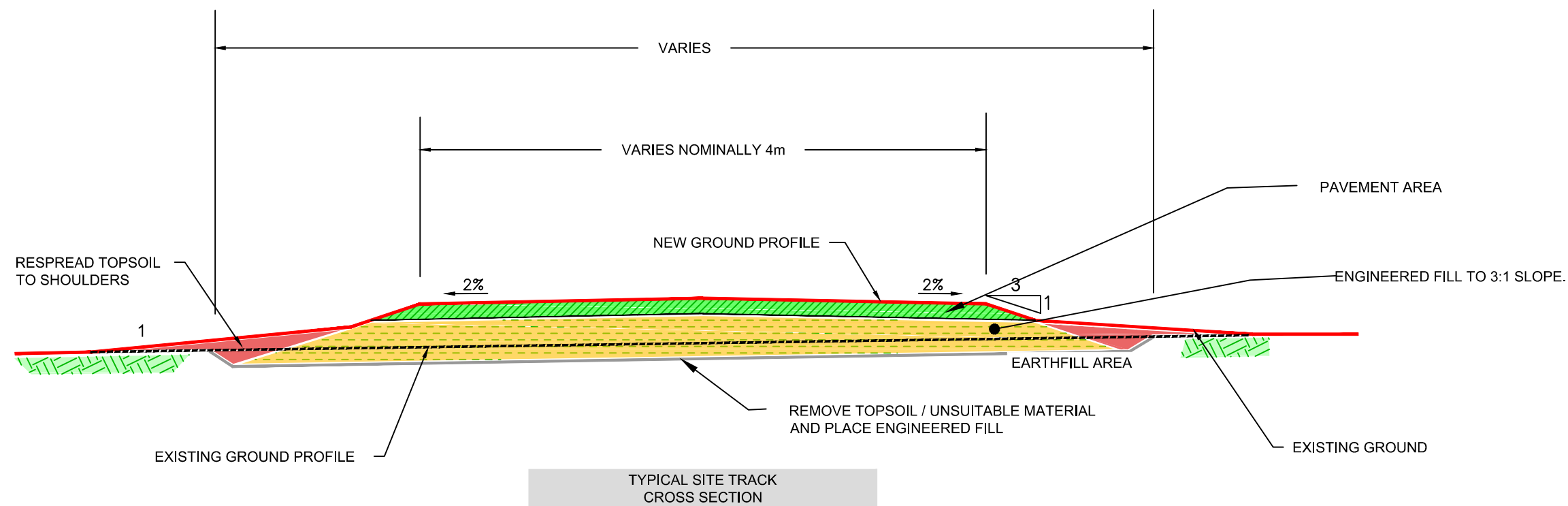
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SOLAR FARM
 TECHNICAL FIGURE 2
 TYPICAL ACCESS
 TRACK DETAIL



TYPICAL SITE TRACK
 CROSS SECTION

LEGEND

- EXISTING GROUND PROFILE
- FINISHED GROUND PROFILE
- ENGINEERED FILL
- CRUSHED STONE PAVEMENT
- EXISTING GROUND
- RESPREAD TOPSOIL

NOTES

GENERAL SITE ROAD DETAILS SHOWN, WHERE POSSIBLE AREAS OF FILL TO BE AVOIDED, ADDITIONAL WIDENING OF TRACK REQUIRED ON CORNERS AND PASSING BAYS TO ACCOMMODATE TRAFFIC;

ADDITIONAL TEMPORARY TRACK WIDENING MAY BE REQUIRED FOR CRANE MOVEMENTS. WIDENED ZONES TO BE REMOVED AT THE DISCRETION OF THE REGULATING AUTHORITY;

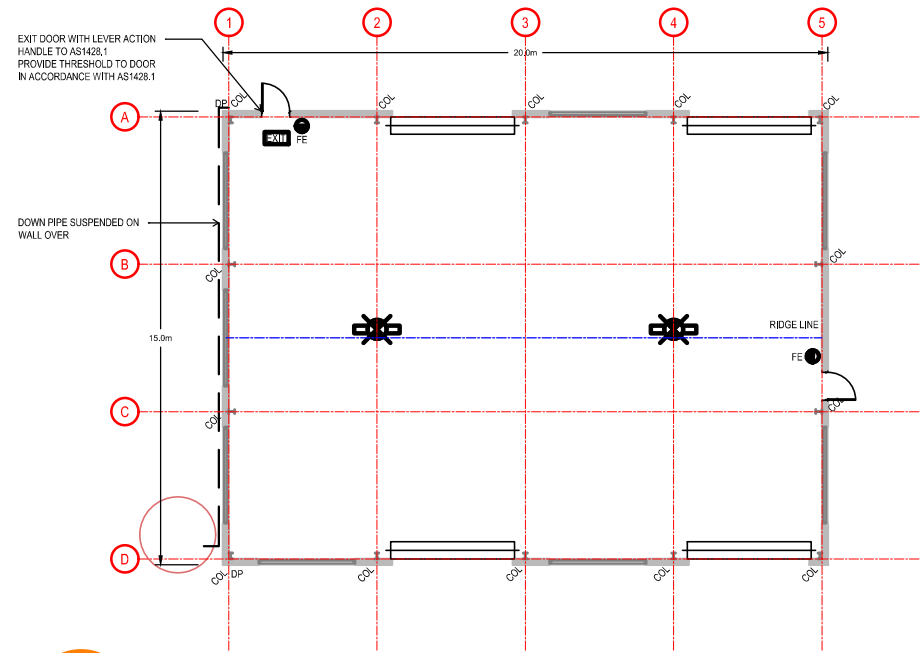
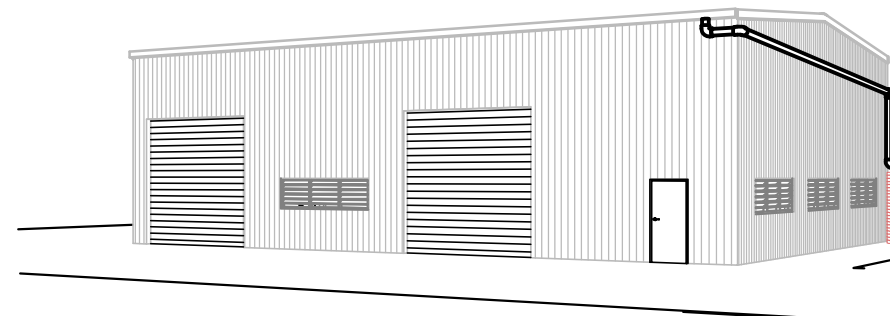
TRACK WIDTH WIDENED LOCALLY TO PROVIDE PASSING BAYS & TURNING HEADS;

ALL MEASUREMENTS ARE INDICATIVE BUT FINAL DESIGN WILL BE CONSISTENT WITH WHAT IS SHOWN.

INFRA DWG	N/A	APPD DATE	02-08-2017
LAYOUT DWG	N/A	T-LAYOUT NO.	N/A
DRAWING NUMBER			
03707D3501-03			
SCALE - N.T.S			
COORDS			
N/A			
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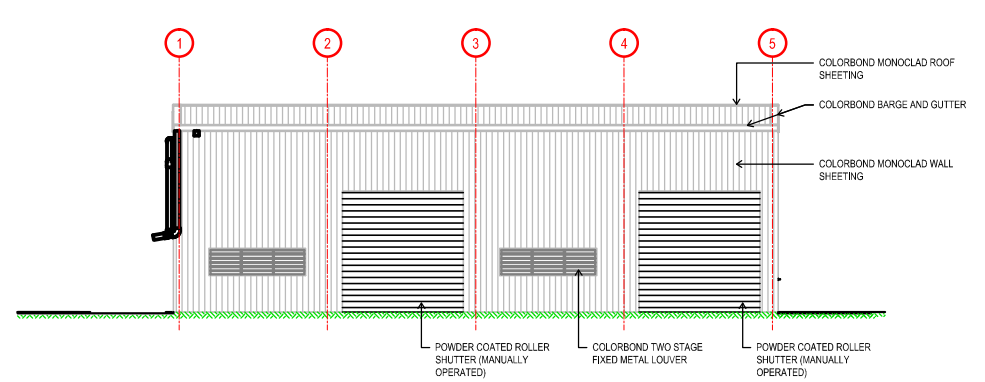
SOLAR FARM
 TECHNICAL FIGURE 9
 TYPICAL STORAGE SHED



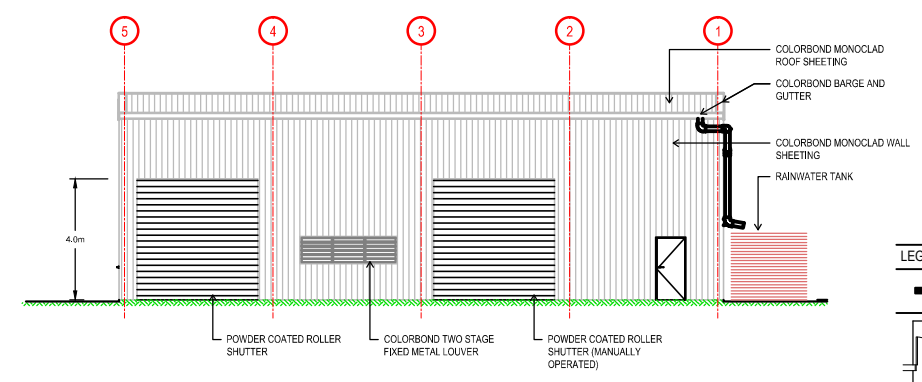
PERSPECTIVE
 3D STORAGE SHED

1 STORAGE SHED FLOOR PLAN

NOTES
 LAYOUTS AND DIMENSIONS ARE INDICATIVE ONLY TO SHOW GENERAL ARRANGEMENT CONCEPTS AND ALL DETAILS ARE SUBJECT TO FINAL DESIGN.
 THE FINAL DESIGN WILL BE GENERALLY IN ACCORDANCE WITH WHAT IS SHOWN.
 BASED ON I³ DRAWINGS:
 - SITE PLAN DETAILED PROJECT 16-104 DRAWINGS No. 16-104-A01-C, 16-104 - A02 - A AND 16-104-A03-B.



S STORAGE SHED SOUTHERN ELEVATION



N STORAGE SHED NORTH ELEVATION

LEGEND - FLOOR PLAN

- PROPOSED WALL REFER WALL SCHEDULE FOR TYPE
- CIRCULATION SPACE TO AS1428.1-2009
- MIN. 920 DOOR TO AS1428.1-2009 (MIN. 850 CLEAR)
- WALL
- CIRCULATION SPACE TO AS1428.1-2009

FHR 35m x 10mm ID FIRE HOSE REEL INSTALLED IN ACCORDANCE WITH AS2441

FE 4.5kg 4A-60(BE) DRY CHEMICAL FIRE EXTINGUISHER INSTALLED IN ACCORDANCE WITH AS2444-1990

BOLLARD REFER SLAB DETAILS FOR BOLLARD DETAILS

DOWNPIPE REFER STORMWATER PLAN FOR SIZE

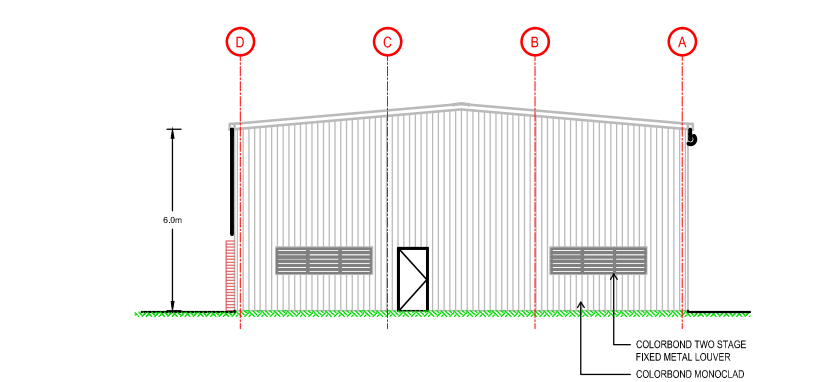
WALL TAG, REFER WALL SCHEDULE FOR WALL TYPE, INSULATION AND FINISH

DOOR TAG, REFER DOOR SCHEDULE FOR DETAILS

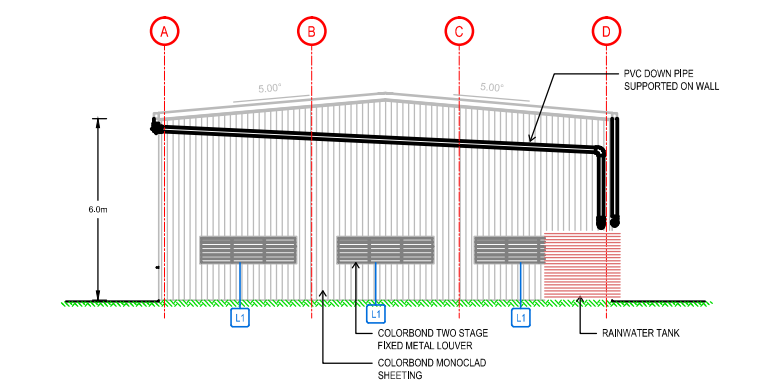
WINDOW TAG, REFER WINDOW SCHEDULE FOR DETAILS

CURTAIN WALL TAG, REFER NON-STANDARD WINDOW SCHEDULE FOR DESCRIPTION, REFER ELEVATIONS AND PLAN FOR MULLION SETOUT

i³ consulting pty ltd
 engineering consultants
 innovation, ingenuity, inspiration
 Lvl2, 39 Shawwood Rd PO Box 878
 Torrington, Qld 4086 Torrington, Qld 4086
 www.i3consulting.com.au mail@i3consulting.com.au
 ABN 89 106 075 156 ACN 106 075 156
 p. 07 3870 8888



E STORAGE SHED EASTERN ELEVATION



W STORAGE SHED WESTERN ELEVATION

NOTES:

- ROLLER DOORS TO BE DESIGNED TO MEET PRESSURE CAPACITY REQUIREMENTS OF THE REGION
- DISABILITY ACCESS TO COMPLY WITH AS1428.1 INCLUDING A MAXIMUM THRESHOLD OF 5mm AND CARPARK GRADES TO BE A MAXIMUM OF 1 IN 40 (2.5%) FROM DISABILITY CARPARK TO BUILDING.
- CONCRETE TILT PANELS TO COMPLY WITH BCA CL 1.11.
- REFER GENERAL NOTES ON 001 FOR FURTHER NOTES AND ABBREVIATIONS
- REFER TO THE SCHEDULE OF FIXTURES AND FINISHES FOR SPECIFICATIONS

EMERGENCY LIGHTING SCHEDULE

SYMBOL	CO	CSO	HEIGHT	DESCRIPTION
	D50	C50	5000	STANLITE ECB136M, MAINTAINED 36W SINGLE, BARE BATTERY
	D25	D25	2700	STANLITE ESFLD
	E2.5	E2.5	2400	STANLITE EELD 10W MAINTAINED, SINGLE SIDE

TO COMPLY WITH AS2293.1-2005 AND B.C.A. PART 4.

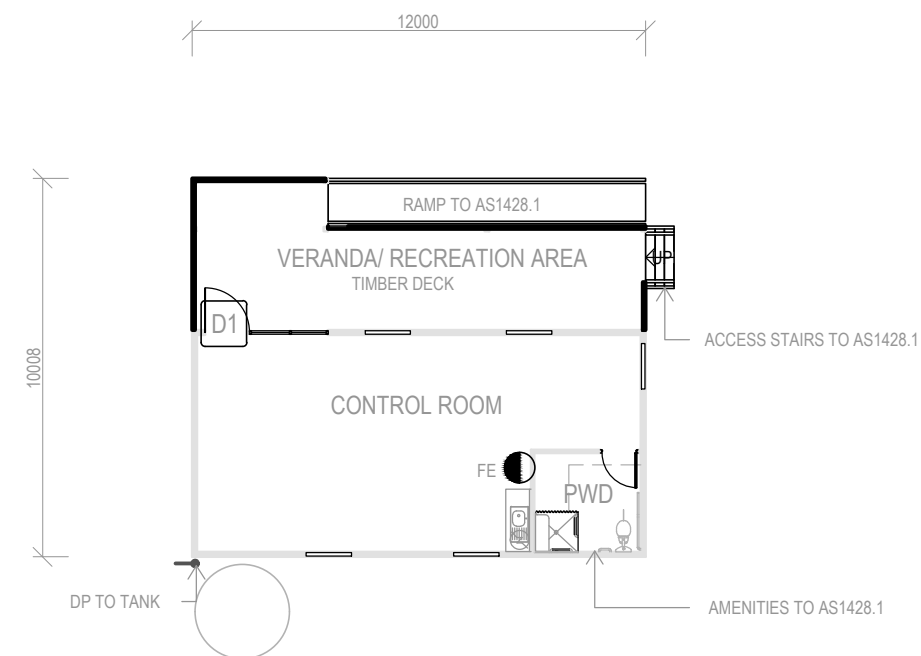
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LAYOUT DWG	N/A	T-LAYOUT NO.	N/A
DRAWING NUMBER		03707D3503-01	
SCALE - N.T.S		@A3	
COORDS N/A			
PLANNING PERMIT APPLICATION			
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CONTROL ROOM LAYOUT

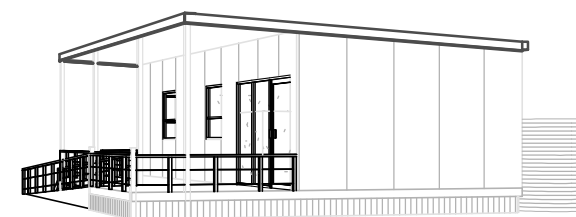


SOLAR FARM

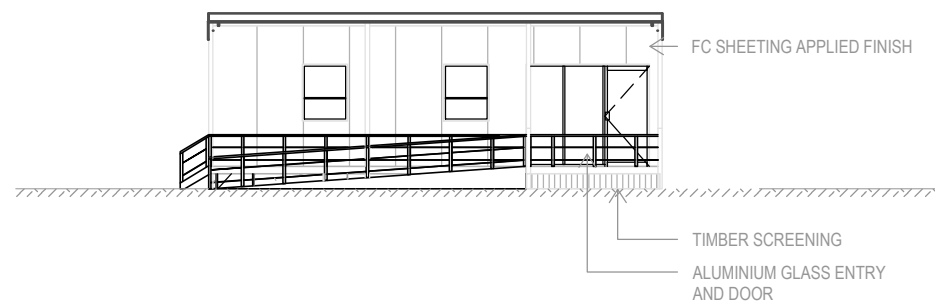
TECHNICAL FIGURE 8 TYPICAL CONTROL ROOM



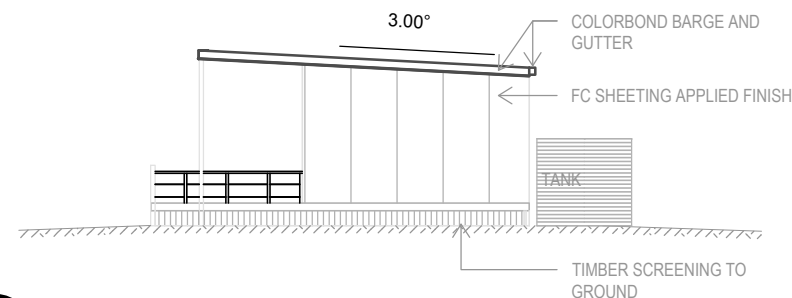
1 GROUND FLOOR PLAN



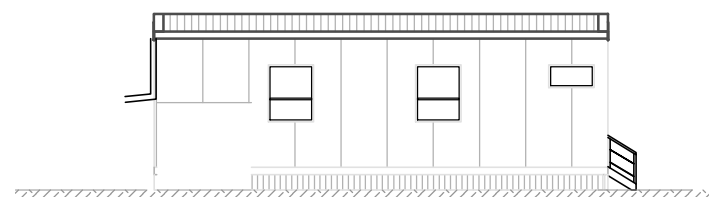
6 PERSPECTIVE



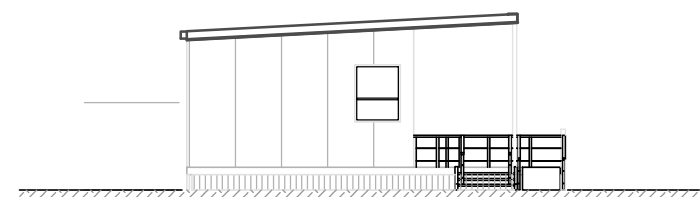
3 NORTH ELEVATION



2 WEST ELEVATION



4 SOUTH ELEVATION



5 EAST ELEVATION

ROOM SCHEDULE		
NAME	FLOOR FINISH	AREA
GROUND FLOOR		
CONTROL ROOM	VINYL	60 m ²
PWD	VINYL	7 m ²
VERANDA/ RECREATION AREA	TIMBER DECK APPLIED FINISH	36 m ²
Grand total		103 m ²

- NOTES:**
- INFRASTRUCTURE TO CONFORM TO AUSTRALIAN STANDARDS, BCA/NCC AND LOCAL GOVERNMENT REGULATIONS;
 - LAYOUT AND DIMENSION ARE INDICATIVE ONLY - SUBJECT TO DETAILED DESIGN AND NOT FOR CONSTRUCTION;
 - DIMENSION ARE IN MILLIMETRES;
 - LAYOUT AS SHOWN SUITED FOR ≤ 132KV.

PAGE 1 OF 2

INFRA DWG	N/A	APPD DATE	08-02-2017
LAYOUT DWG	N/A	T-LAYOUT NO.	N/A

DRAWING NUMBER
03707D4003-01

SCALE - N.T.S. @A3

COORDS N/A

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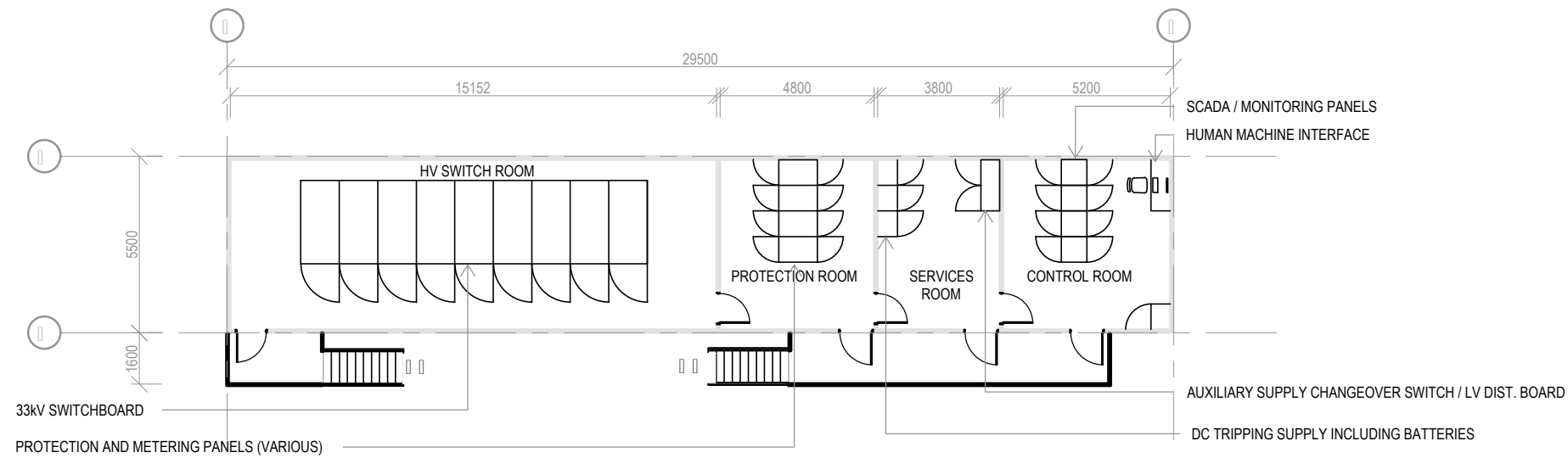


SWITCHROOM DETAIL



SOLAR FARM

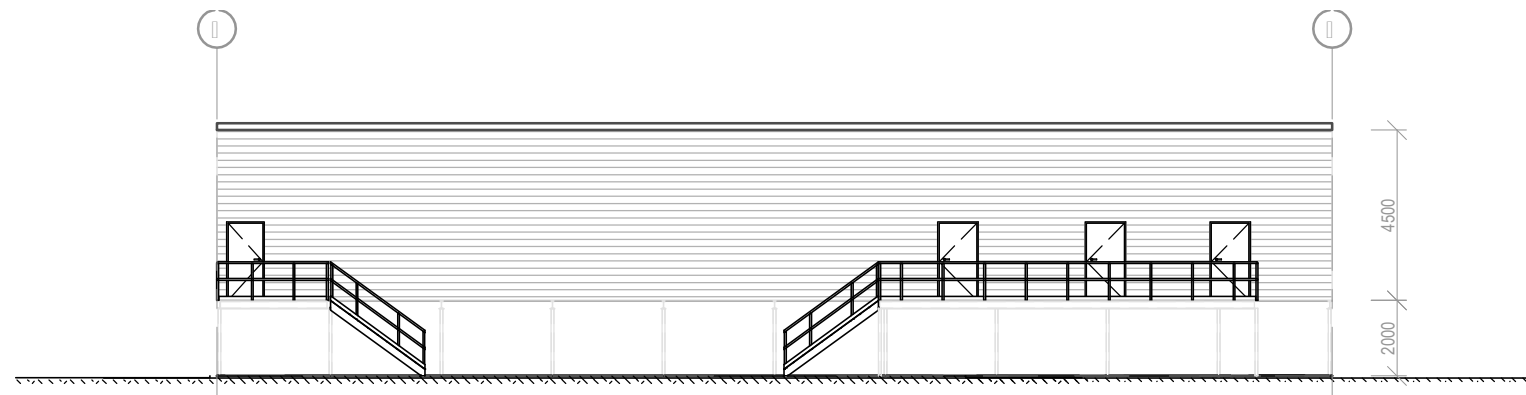
TECHNICAL FIGURE 8 TYPICAL CONTROL ROOM



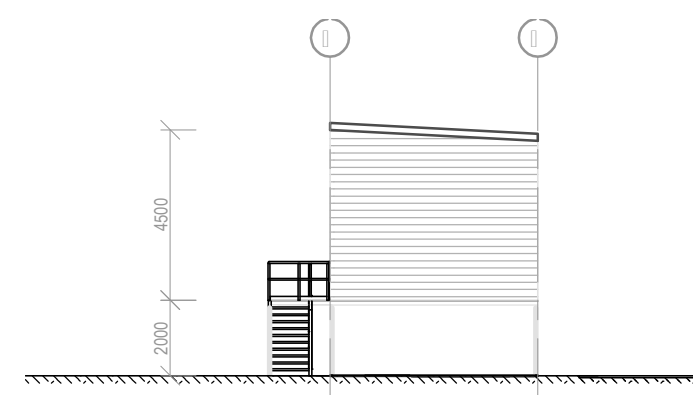
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2. LAYOUT AND DIMENSION ARE INDICATIVE ONLY - SUBJECT TO DETAILED DESIGN AND NOT FOR CONSTRUCTION;
3. DIMENSION ARE IN MILLIMETRES;
4. LAYOUT AS SHOWN SUITED FOR $\leq 132kV$;
5. COMMS TOWER DESIGN TO BE FINALISED THROUGH DISCUSSION WITH NETWORK PROVIDER.

FLOOR PLAN



ELEVATION



ELEVATION

PAGE 2 OF 2

INFRA DWG	N/A	APPD DATE	08-02-2017
LAYOUT DWG	N/A	T-LAYOUT NO.	N/A

DRAWING NUMBER
03707D4003-01

SCALE - N.T.S. @A3

COORDS N/A

PLANNING PERMIT APPLICATION

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SUITE 4, LEVEL 1
760 PACIFIC HWY
CHATSWOOD, NSW 2067
TEL: +61 (0)2 8440 7400
EMAIL: info-australia@res-group.com



GENERAL ARRANGEMENT



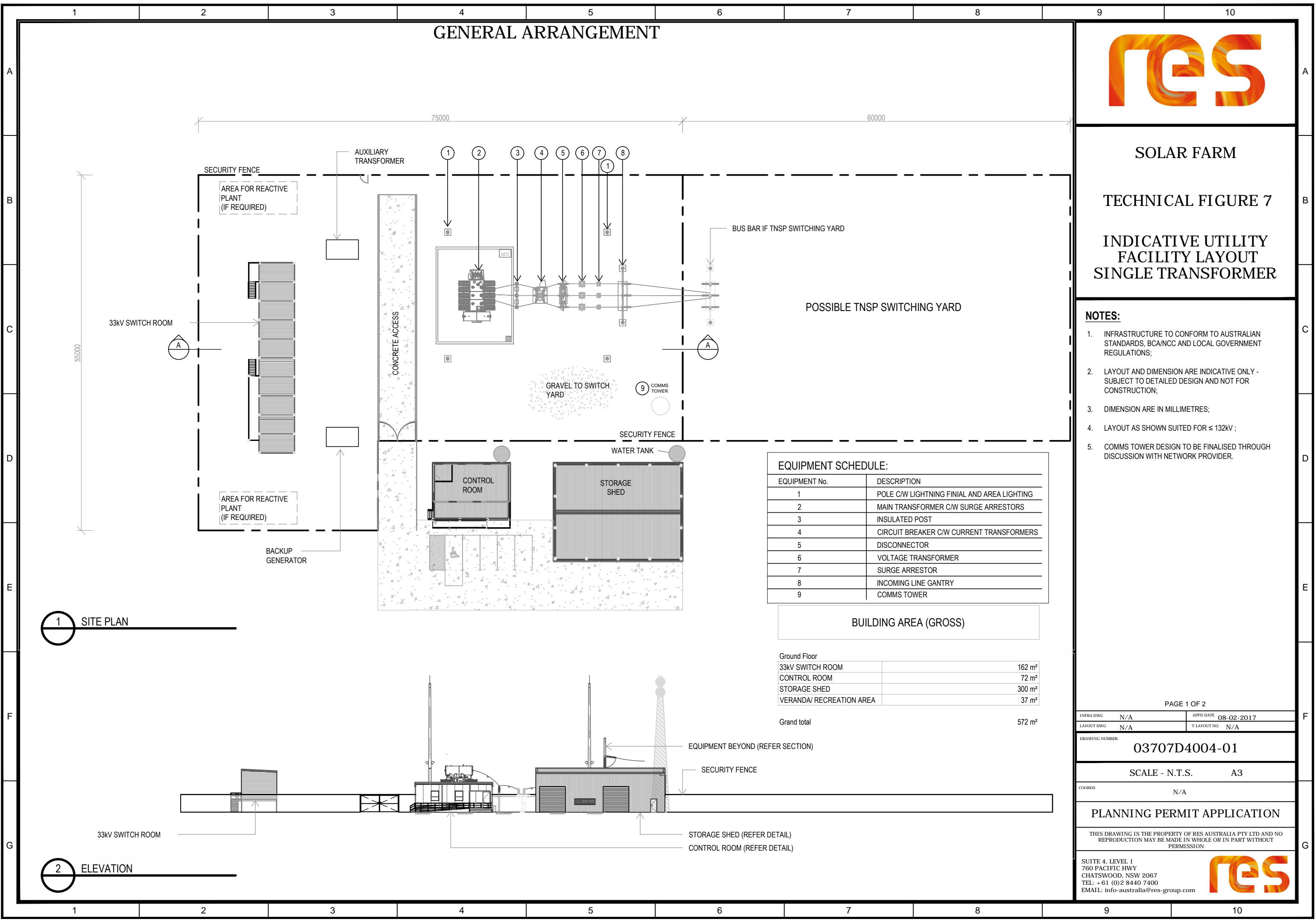
SOLAR FARM

TECHNICAL FIGURE 7

INDICATIVE UTILITY FACILITY LAYOUT SINGLE TRANSFORMER

NOTES:

1. INFRASTRUCTURE TO CONFORM TO AUSTRALIAN STANDARDS, BCA/NCC AND LOCAL GOVERNMENT REGULATIONS;
2. LAYOUT AND DIMENSION ARE INDICATIVE ONLY - SUBJECT TO DETAILED DESIGN AND NOT FOR CONSTRUCTION;
3. DIMENSION ARE IN MILLIMETRES;
4. LAYOUT AS SHOWN SUITED FOR $\leq 132\text{kV}$;
5. COMMS TOWER DESIGN TO BE FINALISED THROUGH DISCUSSION WITH NETWORK PROVIDER.



EQUIPMENT SCHEDULE:

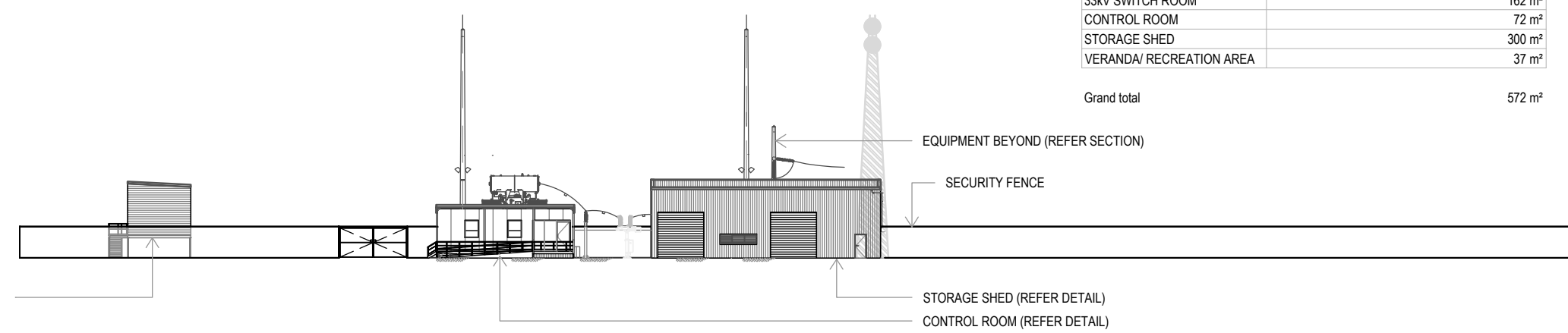
EQUIPMENT No.	DESCRIPTION
1	POLE C/W LIGHTNING FINIAL AND AREA LIGHTING
2	MAIN TRANSFORMER C/W SURGE ARRESTORS
3	INSULATED POST
4	CIRCUIT BREAKER C/W CURRENT TRANSFORMERS
5	DISCONNECTOR
6	VOLTAGE TRANSFORMER
7	SURGE ARRESTOR
8	INCOMING LINE GANTRY
9	COMMS TOWER

BUILDING AREA (GROSS)

Ground Floor	
33kV SWITCH ROOM	162 m ²
CONTROL ROOM	72 m ²
STORAGE SHED	300 m ²
VERANDA/ RECREATION AREA	37 m ²
Grand total	572 m²

1 SITE PLAN

2 ELEVATION



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GENERAL ARRANGEMENT SECTION



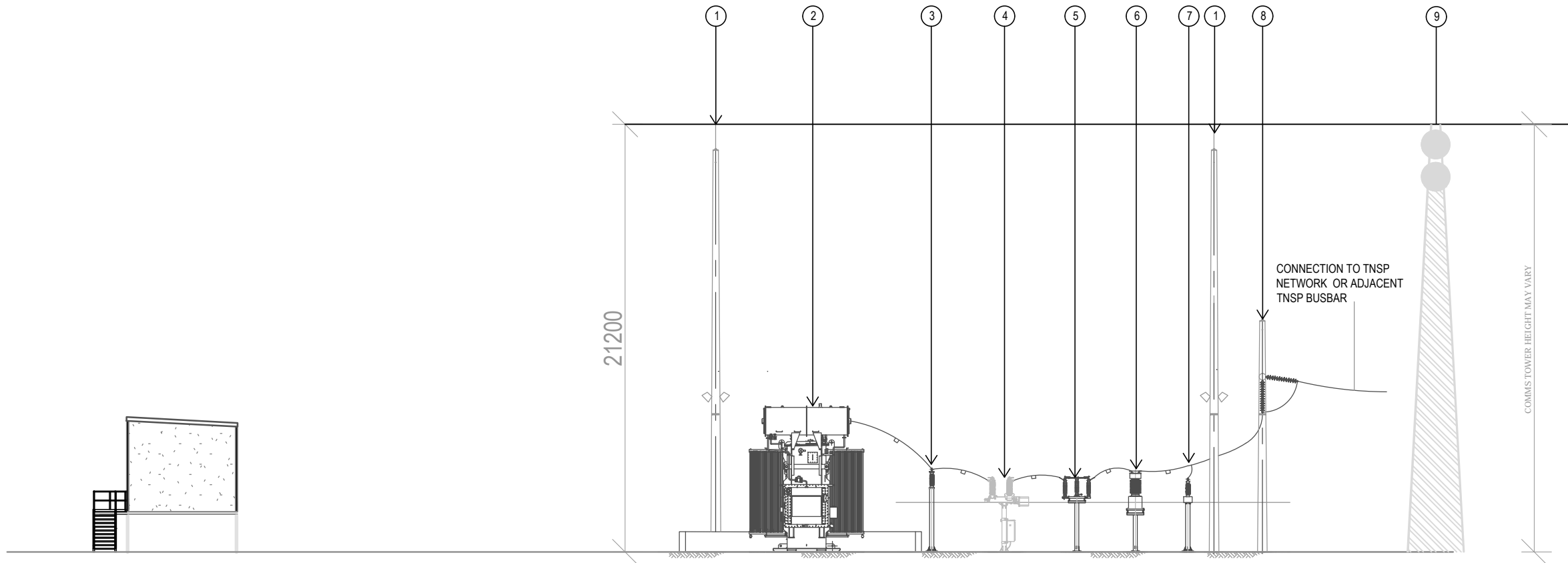
SOLAR FARM

TECHNICAL FIGURE 7

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A SECTION

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