

8th February 2022

Planning Department
Moree Plains Shire Council
Level 2, Max Centre
30 Heber Street
Moree NSW 2400

Our Ref: 21-367
Your Ref: DA2021/53

Attention: Murray Amos

By email: murray.amos@mpsc.nsw.gov.au

Dear Murray,

Addendum: Erection of a 4.95MW Solar Farm, 2910 Gwydir Highway Moree NSW 2400 – Minor Updates

This addendum provides information to the Moree Plains Shire Council about minor updates to the equipment models and layout of the solar farm development. The updates have been driven by changes to product offerings by the vendors of major components.

This document should be assessed in conjunction with the following documents:

- Statement of Environmental Effects (SEE) prepared by SMK Consultants (September 2021) in support of the proposed construction of the Wathagar Solar Farm.
- 'Addendum: Erection of a 4.95MW Solar Farm, 2910 Gwydir Highway Moree NSW 2400' (January 2022), prepared in response to the request for further information issued by MPSC; and
- 'Addendum: Erection of a 4.95MW Solar Farm at Wathagar, 2910 Gwydir Highway Moree NSW 2400 (Lot 2 in DP773266)' (January 2022), prepared in response to the request for further information issued by TfNSW.

A summary of the updates is provided below:

1) Change of Inverter Model and Battery Storage Model

There will be one Inverter Station (Sungrow SG4950) and four Battery Storage Containers (ST2752UX). The Inverter Station is housed in a 40 ft (12m) container, and each Battery Storage Container is 30 ft (9m) long.

2) Change of Location of Inverter and Battery Storage Stations

The Inverter Station and Battery Storage Containers have been shifted from the northern edge of the array and are now located in the centre of the array.

3) Description of Structures

The description of the structures should now read:

- 48 PEG EW structures (6 structures in each east/west row and 8 rows running north/south). Each structure is comprised of 14 PV modules east/west by 28 PV modules north/south. The structure dimensions are 30.201 m (east/west) x 29.988 m (north/south). The PV module will be sourced from a Global Tier 1 supplier.
- 1 combined inverter/transformer stations.
- 4 battery storage containers with a combined storage capacity of 11 MWh.
- Cabling and switchgear.
- 1.8m surrounding chain link fence with 2 x 6m double leaf gate.

The PV modules will be mounted on piers with a minimum height above ground level of 750mm and a maximum height of 1047mm.

The footprint of the site has been reduced from 8.6 hectares to 6.088 hectares. An updated site layout drawing is provided to illustrate this.

4) Vegetation Management

Mowing will not be required as a vegetation management strategy in the array area. The entire footprint will be covered in mineral mulch and herbicide application will be the management strategy for any weed growth.

Please do not hesitate to contact our office should you require any further information.

Kind regards,



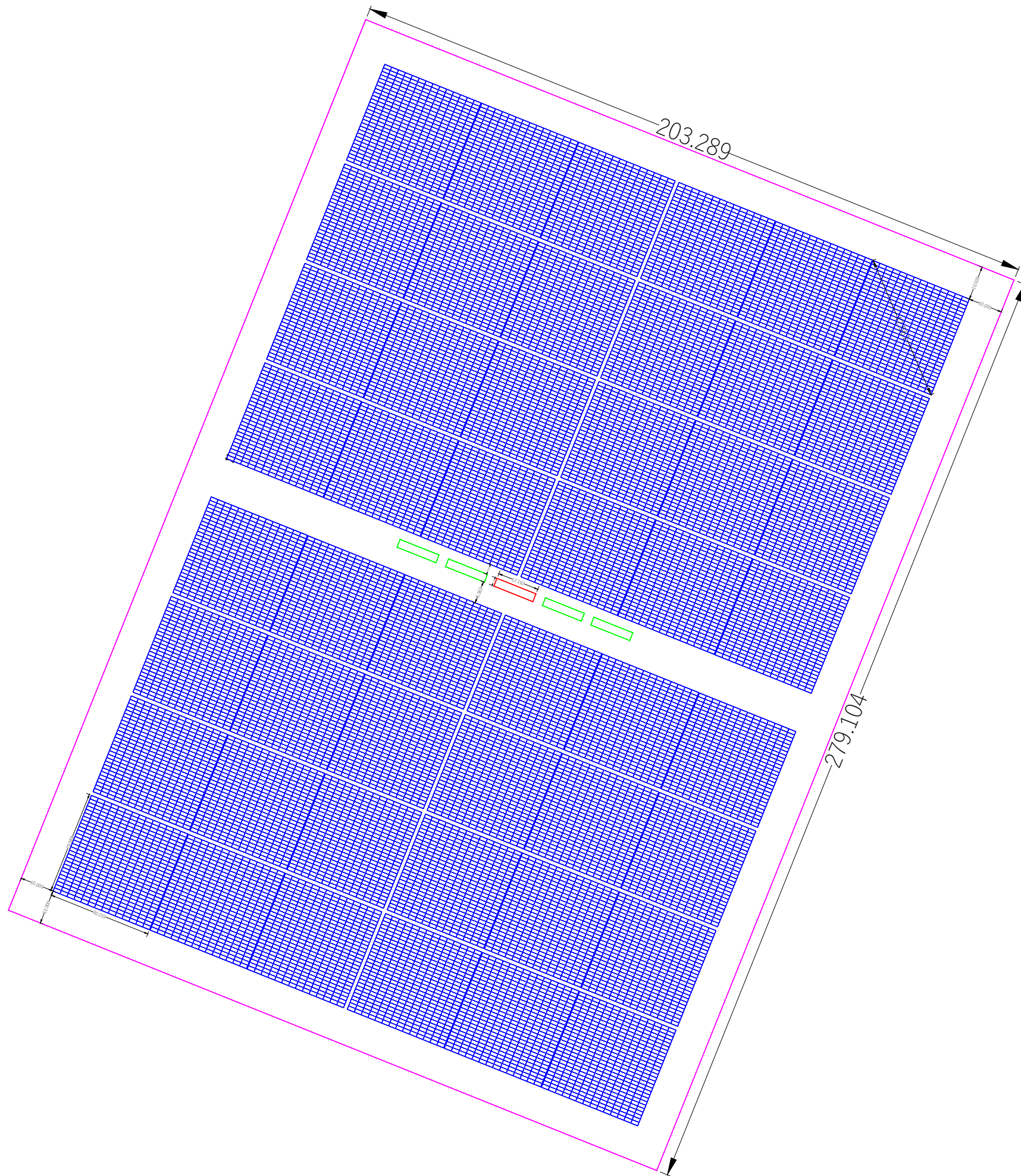
Marie Duffy
Environment and Resource Consultant
SMK CONSULTANTS

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MOREE NSW 2400
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Appendix 1 – Site Plans



Figure 1: Site plan on aerial imagery background (Google Earth, 2022)



Project: Wathagar Gin
Title: Site Layout

Date: 26 Sep 2021

Drawing: S092021-4

Sheet: 1 of 5

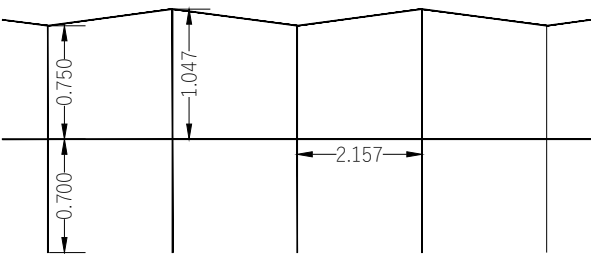
PROJECT DATA

FENCED AREA	5.674ha
DC TRUNK & BUS CABLE	240mm2
STRING LENGTH	28 modules
NO. OF BLOCKS	48
NO. OF PV MODULES	18816
PV MODULE	JAM72S20-MR 460W
TOTAL DC RATING	8.655 MWp
INVERTER	Sungrow SG4950
SYSTEM AC RATING	4.95 MW
TRANSFORMER RATING	4.95 MVA

LOCATION

Gwydir Highway
Wathagar NSW
29.5556° S 149.5934° E

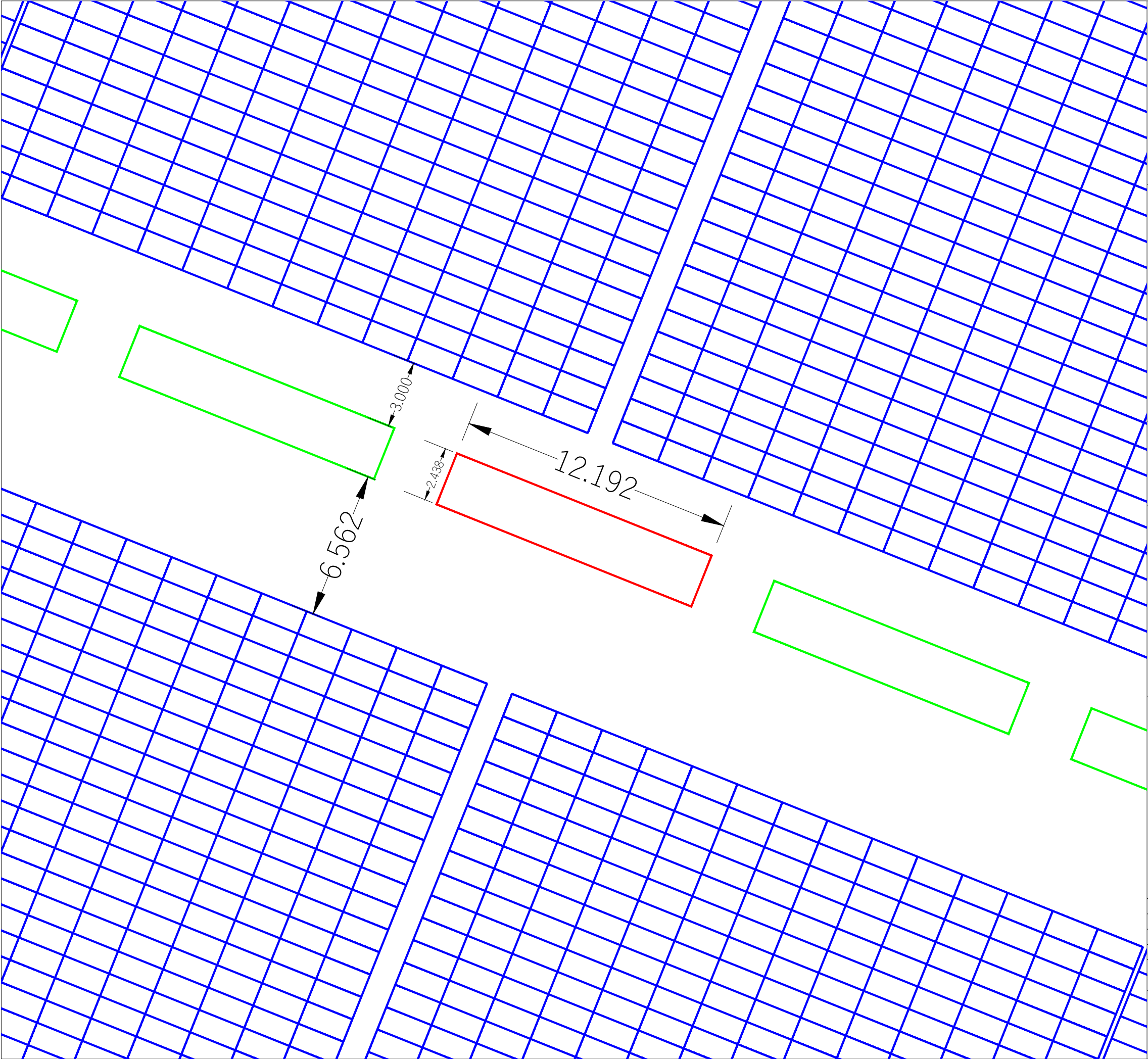
FRONT VIEW



LEGEND

BATTERY STORAGE	LOT BOUNDARY
INVERTER	ROAD
PV MODULES	HV LINE O/H & U/G
FENCE	DC ISO, 4 STR HARNESS

Rev	Description	Drawn	Checked	Date
A	PEG-EW Preliminary Site Layout	RLM		26/09/21
B	First Solar Modules	RLM		17/11/21
C	JA Solar PV Modules	RLM		24/11/21
D	JAM72S20 Portrait	RLM		4/01/22
E	DC Trunks 240mm2	RLM		17/01/22



Project: Wathagar Gin
Title: Inverter View

Date: 26 Sep 2021

Drawing: S092021-4

Sheet: 2 of 5

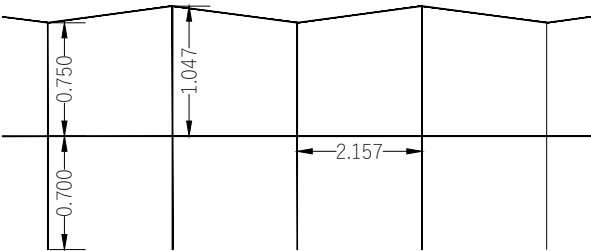
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LOCATION

Gwydir Highway
Wathagar NSW
29.5556° S 149.5934° E

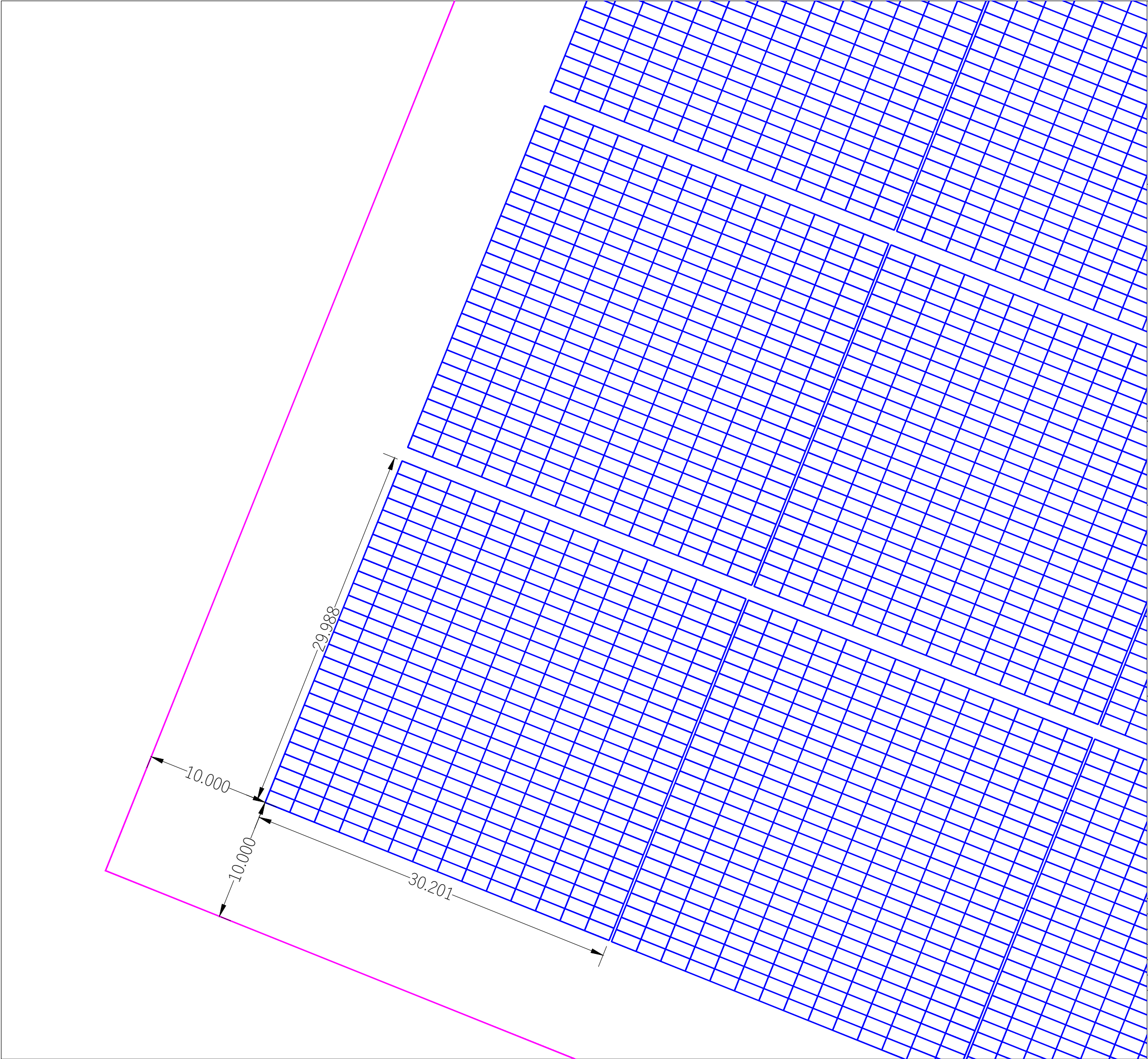
FRONT VIEW



LEGEND

BATTERY STORAGE	LOT BOUNDARY
INVERTER	ROAD
PV MODULES	HV LINE O/H & U/G
FENCE	DC ISO, 4 STR HARNESS

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B	First Solar Modules	RLM		17/11/21
C	JA Solar PV Modules	RLM		24/11/21
D	JAM72S20 Portrait	RLM		4/01/22
E	DC Trunks 240mm2	RLM		17/01/22



Project: Wathagar Gin
Title: South West Corner

Date: 26 Sep 2021

Drawing: S092021-4

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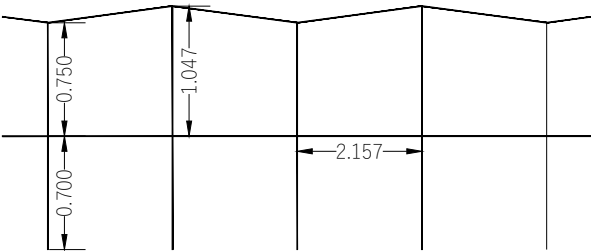
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LOCATION

Gwydir Highway
Wathagar NSW
29.5556° S 149.5934° E

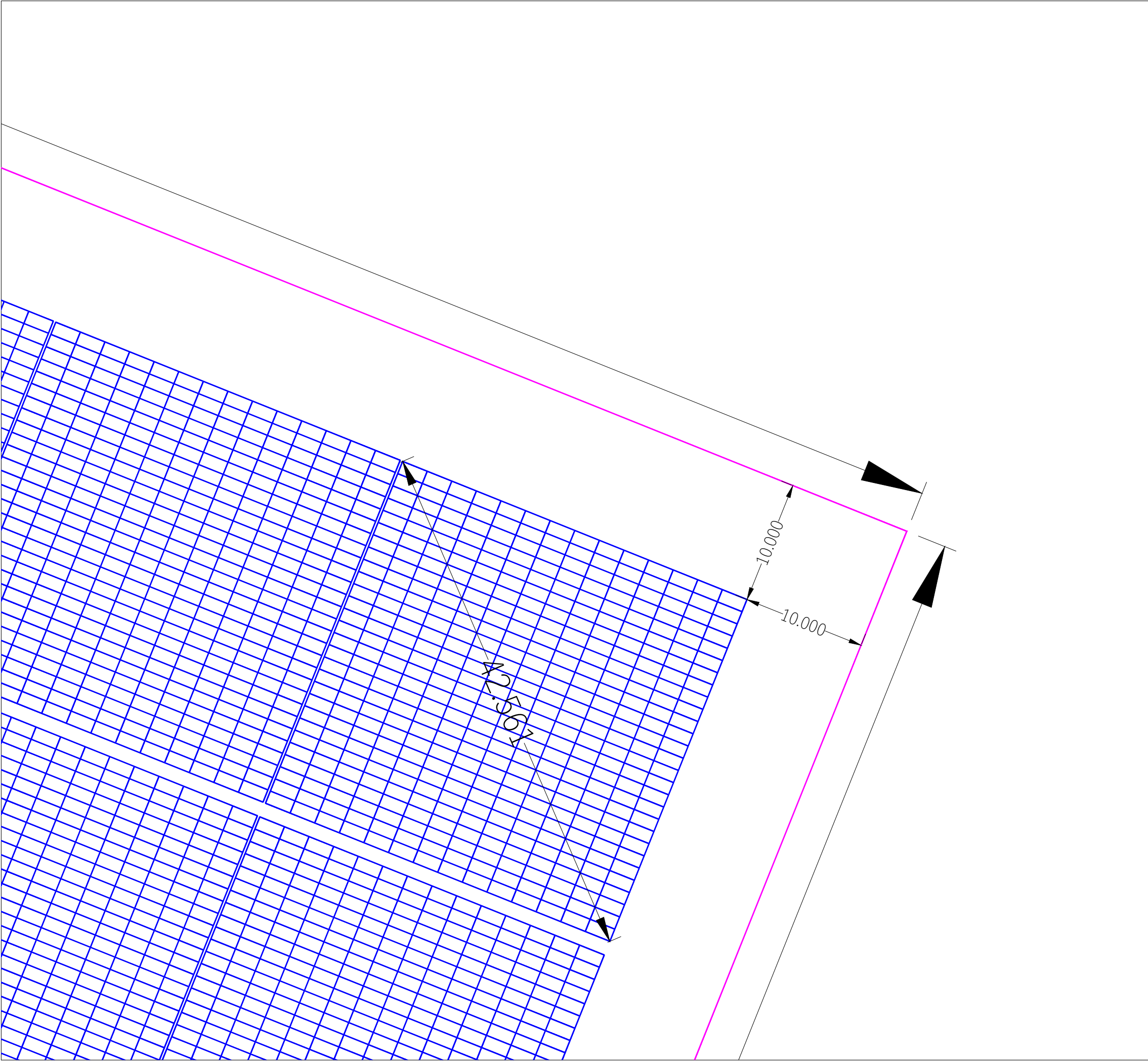
FRONT VIEW



LEGEND

BATTERY STORAGE	LOT BOUNDARY
INVERTER	ROAD
PV MODULES	HV LINE O/H & U/G
FENCE	DC ISO, 4 STR HARNESS

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D	JAM72S20 Portrait	RLM		4/01/22
E	DC Trunks 240mm2	RLM		17/01/22



Project: Wathagar Gin
Title: North East Corner

Date: 26 Sep 2021

Drawing: S092021-4

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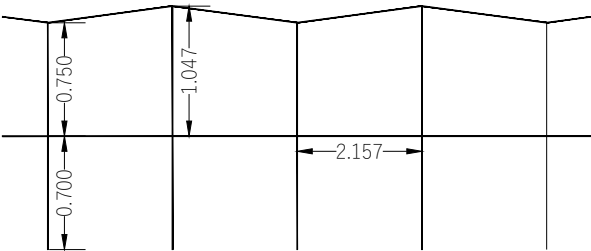
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LOCATION

Gwydir Highway
Wathagar NSW
29.5556° S 149.5934° E

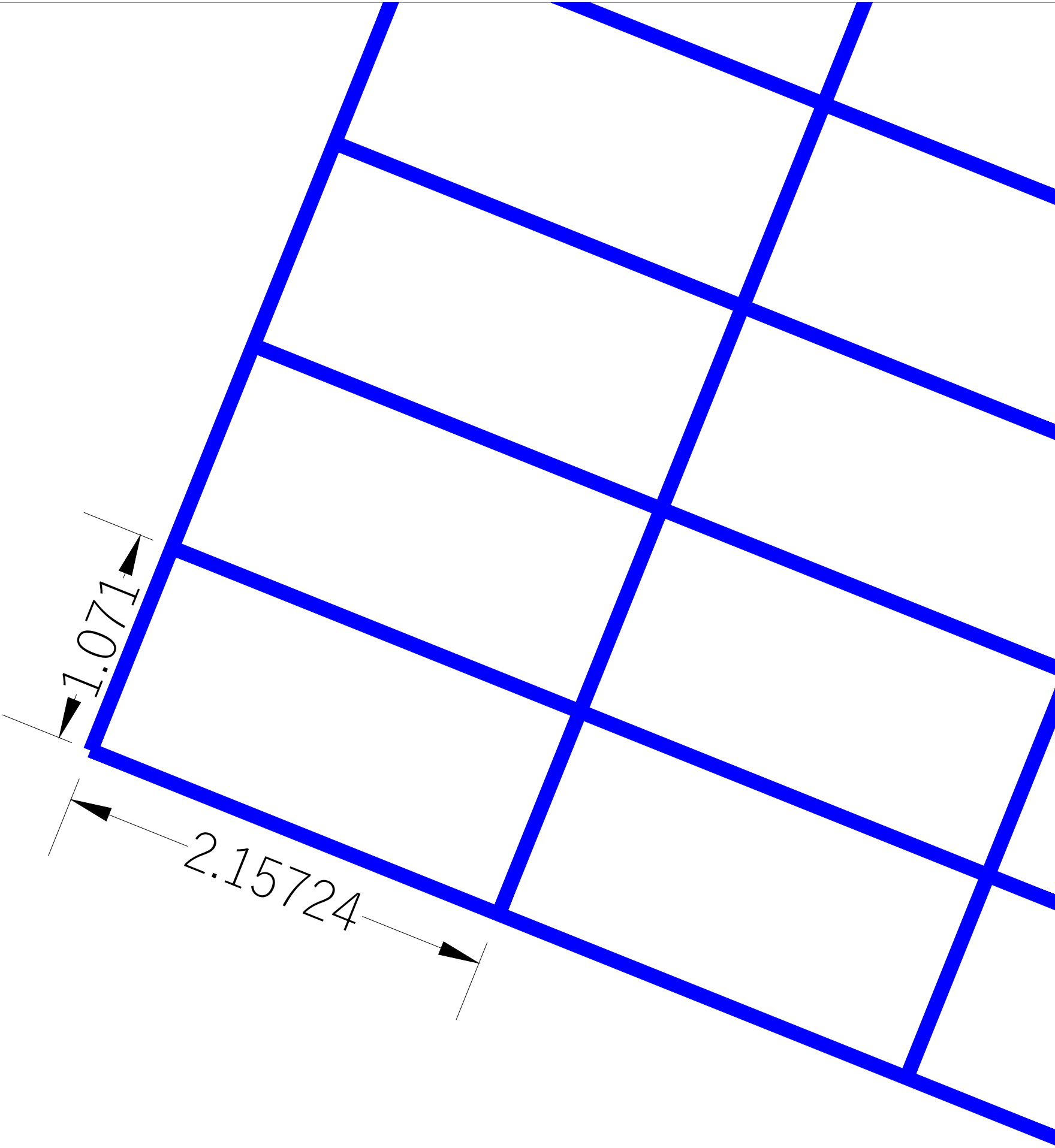
FRONT VIEW



LEGEND

BATTERY STORAGE	LOT BOUNDARY
INVERTER	ROAD
PV MODULES	HV LINE O/H & U/G
FENCE	DC ISO, 4 STR HARNESS

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D	JAM72S20 Portrait	RLM		4/01/22
E	DC Trunks 240mm2	RLM		17/01/22



Project: Wathagar Gin
Title: Single Module View

Date: 26 Sep 2021

Drawing: S092021-4

Sheet: 5 of 5

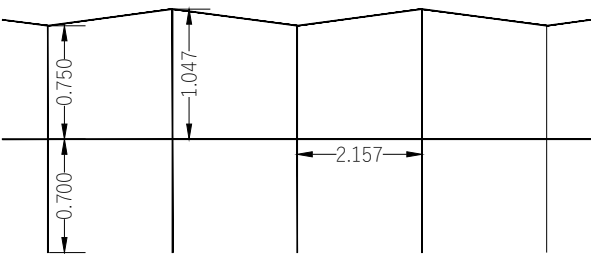
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






LOCATION

Gwydir Highway
Wathagar NSW
29.5556° S 149.5934° E

FRONT VIEW



LEGEND

 BATTERY STORAGE	 LOT BOUNDARY
 INVERTER	 ROAD
 PV MODULES	 HV LINE O/H & U/G
 FENCE	 DC ISO, 4 STR HARNESS

Rev	Description	Drawn	Checked	Date
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