



26.08.2026

Our Ref: 35437-006-01
Your Ref: MCUI 2026_5936/1

Chief Executive Officer
Douglas Shire Council
PO Box 723
MOSSMAN QLD 4873

Attn: Environment & Planning – K. Nyko
Via Email: kieren.nyko@douglas.qld.gov.au

Dear Kieren,

**Information Request Response – Development Application MCUI 2026_5936/1
Material Change of Use for Solar Farm (including ancillary device for storing and
releasing energy)
6868 Captain Cook Highway, Killaloe – Lot 32 on SP332240**

We act on behalf of the applicant, J & V Noli Pty Ltd, in relation to the abovementioned Development Application which is currently before Douglas Shire Council for assessment.

Reference is made to the Information Request issued by Council, dated 5 May 2026 and received by email on the same day.

In accordance with section 13 of the *Development Assessment Rules*, we provide this written response to Council's Information Request. This correspondence constitutes a complete response to Council's Information Request.

With respect to the matters raised in the Information Request, we advise as follows:

Visual Impact Assessment

1. *The applicant is requested to provide an updated Visual Impact Assessment (VIA) in order to demonstrate the visual impact of the proposed development on the surrounding area.*

The Visual Impact Assessment must be prepared by a suitability qualified professional and include, as a minimum, the following:

- a. *A plan or similar identifying the zone of theoretical visibility, showing places where the development is likely to be visible from;*
- b. *Identify the viewshed(s) of significant vantage points (including but not necessarily limited to views from scenic routes and lookouts, towns and public places, gateways and other sensitive receptors);*



- c. *Provide photographs and a photomontage of the proposed development from public viewing places, including sight line sections and views to background landscape features. The photomontage should include elevations/ architectural renders of the proposed solar farm and vegetation buffer at years 0, 3 and 5 from significant viewpoints;*
- d. *Details of proposed built form, materials and colours; and*
- e. *An assessment of likely impacts on views, view corridors, visible features and landscape values. Such assessment must include a detailed methodology outlining how the assessment was conducted and commentary and justification of any conclusions made in respect of the level of impact the proposed development will have.*

Advice Note: The proposed development is located in the Medium landscape value area and Scenic route buffer overlay of the Landscape Values overlay which includes both Acceptable and Performance Outcomes which prescribe that development is screened from the view of roads and other public places.

Council Officers acknowledge that the application proposes a mounded vegetation buffer which is intended to screen the proposed solar farm from all directions and projected to reach maturity within 3 years however the application material does not include any information detailing the height of the proposed mound/ bund.

Officers are seeking further information to verify that the proposed vegetation buffer will suitably screen the solar farm from significant viewpoints, including any nearby high sections of the Captain Cook Highway.

Response

Please refer to revised Visual Impact Assessment prepared by GGI Landscape Architects included within **Attachment A**. The revised assessment identifies places where the development is likely to be visible from and demonstrate that overall, the proposed structures do not create significant visual impact to amenity and areas of scenic value from each identified viewpoint.

Detailed Landscaping Plan

- 2. *The applicant is requested to provide a Detailed Landscaping Plan in accordance with the Landscaping Code and Planning Scheme Policy SC6.7 prepared by a suitably qualified and experienced Landscape Architect or Landscape Designer, demonstrating:*
 - a. *A typical planting plan and plant schedule which is generally in accordance with that shown on the concept landscape plan referenced; Proposed Solar Farm Vegetated Buffer Layout Plan, Job No. L2415, Sheet No. LPS_2, prepared by GGI Landscape Architects;*



- b. *A typical planting plan including the location, number and minimum size at time of planting; dimensions of planting beds and details of any bunds/batters, visual barrier fences associated with the landscape design;*
- c. *A planting schedule including endemic or native species suitable to the area, quantities and densities, planting sizes, dimensions of planting areas and canopy heights and spread at years 0, 3 and 5 from the time of planting;*
- d. *Specifications for planting, including;*
 - *A description of the overall scope of the landscape works;*
 - *A schedule of drawings to be read in conjunction with the specification;*
 - *Details of standards and guidelines to be followed;*
 - *Description of site preparation measures including protection measures of existing vegetation, protective drainage and slope stabilisation measures, protection of existing site features, weed eradication, soil preparation and stockpiling and mulching; and*
- e. *Details of maintenance monitoring, inspection and reporting.*

Response

Please refer to a copy of the revised landscaping plans included at sheets LPS_1, LPS_3 & LPS_4 Rev A and of the amended Visual Impact Assessment prepared by GGI Landscape Architects included within **Attachment A**. The plans provide a Detailed Landscaping Plan in accordance with the Landscaping Code and Planning Scheme Policy SC6.7

Fire Management Plan

The applicant is requested to provide a Fire Management Plan which outlines the measures and procedures to ensure the safety and preparedness of the proposed solar farm in the event of a fire.

Advice Note: The Fire Management Plan must provide an appropriate solution to respond to a large scale lithium-ion battery and electrical fire.

Response

Please refer to the Preliminary Fire Management Plan prepared included within **Attachment B**.

From the time that the original application material was submitted with Council, ongoing design revisions have been occurring. The changes primarily relate to the repositioning of the Padmount Transformer closer the Captain Cook Highway frontage to allow improved accessibility and simplified integration into the existing electrical network in accordance with Ergon Energy's requirements and the reduction of the overall footprint of the facility. Due to improved efficiencies and other design considerations the number of solar panels has been reduced from 2,496 to 1,664.



An updated set of design plans is included within ***Attachement C***.

Supporting Documents

Please see enclosed the following attachments to assist with Council's assessment of the application:

Attachment A: Revised Visual Impact Assessment and Landscaping Plans prepared by GGI Landscape Architects

Attachment B: Preliminary Fire Management Plan

Attachment C: Updated Design Plans

We trust the enclosed information provided is to your satisfaction and look forward to your continued attention to this matter. In the meantime, should you have any further queries in relation to the information response please do not hesitate to contact the undersigned.

Yours Sincerely,

MICHAEL TESSARO
Associate / Senior Planner
Brazier Motti Pty Ltd

ATTACHMENT A

brazier motti



Visual Assessment Report

Proposed Solar Farm

LOT 4 ON RP893855, COOK HIGHWAY, KILLALOE

Revision	Date	Approved by
A	26/11/2024	RG
B	06/12/2024	RG
C	08/04/2026	RG
D	10/04/2026	RG
E	24/08/2026	RG

GGI Landscape Architects

E: cairns@ggiarchitects.com

T: 0740322131

A: PO Box 322, Edge Hill, Q 4870

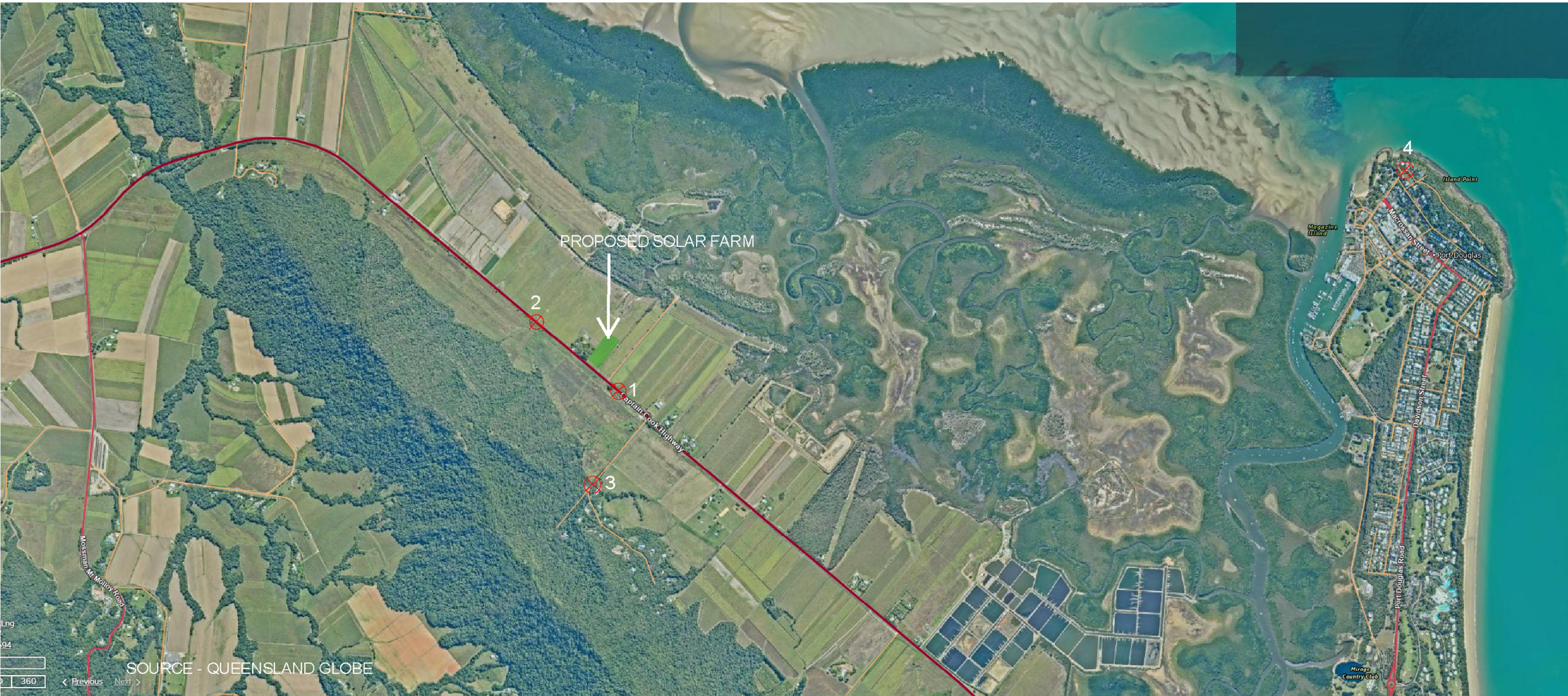


Contents

Contents	2
A. Locality/ View Shed Plan.....	3
B. Character Description	5
C. Built Form	6
D. Impact on View Corridors	6
E. Photo Montage Views	7
F. Landscape Buffer Proposal	21



A. Locality/ View Shed Plan



B. Character Description



Picture 1 – Looking north west on Captain Cook Highway, subject site on the right.



Picture 2 – Looking south west on Killaloe Road, subject site on the right.

The subject site, Lot 32 on SP332240 on the Cook Highway, Killaloe, sits on a generally flat, straight stretch that is typical between Port Douglas and Mossman.

The streetscape is a high value Scenic drive passing by predominantly agricultural land, - cane farms, at road level or lower on flat topography. By contrast to the west and in the distant north are impressive Mountain ranges. The cane growth determines view corridors as it grows and is cut over the cycle of the year. At the time of investigation most cane had been harvested and views were open. It is noted that the impact of sugar cane growth on viewing corridors may change in the future should the region be used to grow different crops.

This investigation takes in the views from the Cook Highway approaching from both north and south, as well as other identified viewing points.

C. Built Form

The project is a proposed solar farm development. Much of the site is to be covered in photovoltaic solar panels in an array configuration on plan, with individual panels tilted to best capture the sun. The lowest panel edges are 0.6m above natural ground and high edges 2.6m above natural ground. Panels are tilted to face north, away from the highway.

Adjacent to the south western boundary of the site abutting the Captain Cook highway, permanent electrical equipment is to be located on platforms 0.4m above natural ground. The equipment is quite small in scale, not higher than 2.8m above natural ground (including platform), and is in neutral light grey and white coloured colorbond cabinets. Refer to electrical plans in planning application.

A permanent on site water tank is also proposed for fire fighting. The tank is galvanised steel and not higher than 2.2m.

D. Impact on View Corridors

View corridors and possible viewing points were investigated and established by driving past the site on the closest roads (Captain Cook Highway and Killaloe Dump Road), standing at the site and ascertaining any possible public vantage points at a distance, and from potential distant road vantage points. Evident viewing corridors were established looking both north west along the Captain Cook Highway, and south east along the same highway. These are the 2 primary view corridors. (see viewing points 1 and 2 on the locality/ view shed plan)

A more distant vantage point was discovered up Colenso Road approximately 490m from the highway. This view was quite obscured from the actual carriage way of the road, and we ventured approximately 2-3m from the kerb line to achieve an unimpeded photograph of the site. This view is not achieved from a vehicle on the road. (see viewing point 3 on the locality/ view shed plan)

For completeness, we inspected the western end of Island Point Road at Port Douglas to determine if the development were visible, and concluded that it isn't due to the existence of the vegetation in front of it. (See viewing point 4 on locality/ view shed plan).

We investigated the Queensland Globe website and ascertained that the contours in Australian Height Datum indicate a location on Captain cook Highway approximately 12m elevation at around 430m south of Bonnie Doon Road (north of the development site). The development site has natural contours ranging between 4.5m AHD – 2m AHD, and lies approximately 1.45km to the south of the higher elevation point on the Highway. Whilst the site is visible from that raised location, the extremely low viewing angle of less than 1:200, and substantial distance, prevents any development from being seen above the proposed landscape buffer.

A landscape buffering design was developed to entirely screen the development when the landscaping reaches full maturity, in particular from view points 1 and 2. The viewing points and the rendered images in Section E Photomontage views demonstrate that the proposed solar farm development will be heavily screened by the proposed deep vegetation buffer proposed along the Cook Highway frontage, parallel to the Killaloe Dump Road, and along its northern boundary beside Vic's Nursery. Views into the solar farm should be screened out around 3 years from completion, with proposed layered and staggered planting on one metre high mounded earth. The proposed vegetation buffer itself creates a low profile that will not detract from the natural lay of the land or impact views of the distant mountains.

The landscape buffer design, at full establishment, will reach a maximum height around 7m above the natural ground, including the 1m high earth mound, with the most dense foliage from ground level to approximately 4m high. (Refer proposed buffer plant species schedule)

Note that the growth and effectiveness of landscape screening is dependent on numerous factors other than the length of time. These factors include soil type and preparation, plant species, early replacement of any failed plants, irrigation schedule, weather conditions, and establishment/ maintenance plan including mulching and fertilisation. The graphics in this report have assumed a reasonable quality of workmanship and ongoing maintenance is employed in the establishment of the landscape.



E. Photo Montage Views

PHOTOMONTAGE VIEWSHED 1



EXISTING VIEWSHED 1 APPROACHING FROM THE SOUTH EAST ON CAPTAIN COOK HIGHWAY – KILLALOE DUMP ROAD TO THE RIGHT

REFERENCE LOCALITY/ VIEWSHED PLAN PAGE 4



VIEWSHED 1 AT 0 YEARS (PROJECT COMPLETION)



VIEWSHED 1 AT 3 YEARS ESTABLISHMENT



VIEWSHED 1 AT 5 YEARS ESTABLISHMENT (FULLY ESTABLISHED)

DRIVE BY ANIMATION 1, CAPTAIN COOK HIGHWAY DRIVING NORTH (animation is based on earlier enlarged scheme)

<https://onedrive.live.com/?qt=allmyphotos&photosData=%2Fshare%2F1FFBA745FD12C196%21s9c91f9b41a504341b270312910c09a7b%3Fithint%3Dvideo%26e%3DmYVEZK%26migratedtospo%3Dtrue&cid=1FFBA745FD12C196&id=1FFBA745FD12C196%21s9c91f9b41a504341b270312910c09a7b&redeem=aHR0cHM6Ly8xZm1zL3VvYy8xZmZlYXN0ZWZkMTJmMTk2L0RQZAtWkdjVUJwQIE3SndNU2tRd0pwN0FkS2hVa1B2bVhJLXUwRzVlYVY1SSW5JP2U9bVlWRVpl&v=photos>

OR VIA BRAZIER MOTTI YOU TUBE LINK: <https://youtu.be/4PnorzMkg3w>

PHOTOMONTAGE VIEWSHED 2



EXISTING VIEWSHED 2 APPROACHING FROM THE NORTH WEST ON CAPTAIN COOK HIGHWAY

REFERENCE LOCALITY/ VIEWSHED PLAN PAGE 4



VIEWSHED 2 AT 0 YEARS (PROJECT COMPLETION)



VIEWSHED 2 AT 3 YEARS ESTABLISHMENT



VIEWSHED 2 AT 5 YEARS ESTABLISHMENT (FULLY ESTABLISHED)

DRIVE BY ANIMATION 2, CAPTAIN COOK HIGHWAY DRIVING SOUTH (animation is based on earlier enlarged scheme)

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OR VIA BRAZIER MOTTI YOU TUBE LINK: <https://youtu.be/MIRIQC3f8N8>

PHOTOMONTAGE VIEWSHED 3



EXISTING VIEWSHED 3 LOOKING NORTH EAST TOP OF COLENOSOE ROAD BELOW TREELINE

REFERENCE LOCALITY/ VIEWSHED PLAN PAGE 4



VIEWSHED 3 AT 0 YEARS (PROJECT COMPLETION)



VIEWSHED 3 AT 3 YEARS ESTABLISHMENT



VIEWSHED 3 AT 5 YEARS ESTABLISHMENT (FULLY ESTABLISHED)

VIEWSHED 4



EXISTING VIEWSHED 4 ISLAND POINT ROAD LOOKING WEST

REFERENCE LOCALITY/ VIEWSHED PLAN PAGE 4

SITE IS NOT VISIBLE



F. Landscape Buffer Proposal

PROPOSED BUFFER PLANT SPECIES

Botanical Species	Common Name	Mature Height
<i>Acmena smithii</i>	Lillipilli	2-6m
<i>Allocasuarina littoralis</i>	Black She Oak	3-8m
<i>Attractocarpus fitzalanii</i>	Brown Gardenia	5-8m
<i>Backhousia citriodora</i>	Lemon Scented Myrtle	3-8m
<i>Cleistanthus hylandii</i>	Bernie's Clystanthus	2-4m
<i>Gardenia psilioides</i>	Gardenia Glennie River	1m
<i>Gardenia scabrella</i>	Star Flower	2-3m
<i>Leea indica</i>	Bandicoot Berry	3-5m
<i>Lomandra hystrix</i>	Mat Rush	1m
<i>Maniltoa lenticellata</i>	Cascading Bean	8-10m
<i>Phyllanthus cuscutiflorus</i>	Pink Phyllanthus	3-4m
<i>Syzygium australe</i>	Lillipilli	3-5m
<i>Xanthostemon chrysanthus</i>	Golden Penda	6-10m
<i>Xanthostemon verticillatus</i>	Little Penda	2-4m

Species have been selected to be suitable and in character with the Douglas Shire, Port Douglas and Coastal Communities, Landscape Zone. The species list all exhibit resilient growth and dense foliage form. A mix of species and heights is desirable to avoid single species failure, and improve visual coherence with the landscape character. The vegetated buffer, would require a minimum width of 5-6m to allow a 2-3 row, layered & staggered planting to further enhance the density and screening. The proposed buffer would be mounded and irrigated, with soil thoroughly prepared. A mixture of different plants with a variety of foliage shapes, sizes and natural colours has been considered.



Acmena smithii



Allocasuarina littoralis



Attractocarpus fitzalanni



Backhousia citriodora



Cleistanthus hylandii



Gardenia psilioides



Gardenia scabrella



Leea indica



Lomandra hystrix



Maniltoa lenticellata



Phyllanthus cuscutiflorus



Syzygium australe



Xanthostemon chrysanthus



Xanthostemon verticillatus



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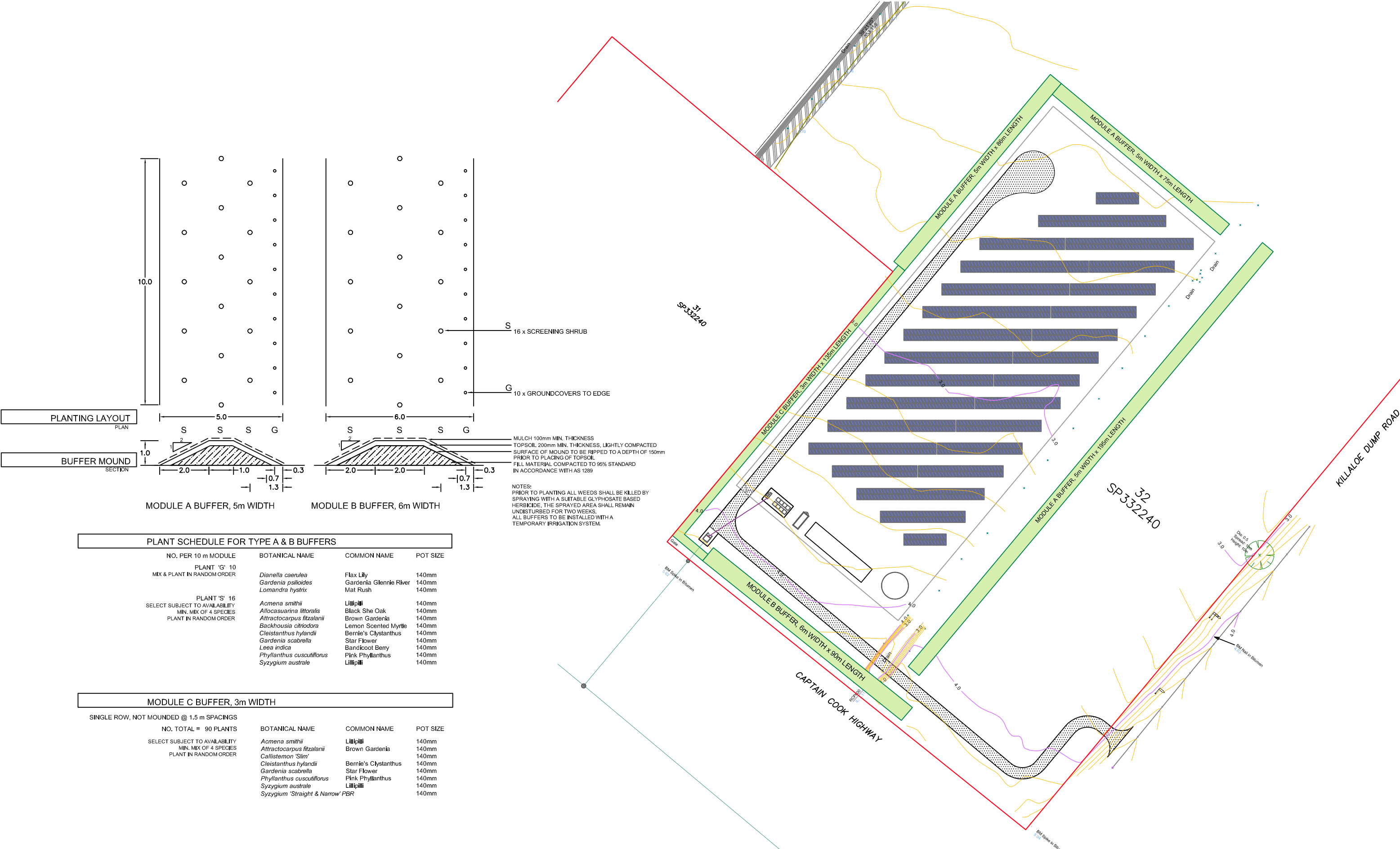
CLIENT
J & V NOLI PTY LTD

PROJECT
PROPOSED SOLAR FARM
VEGETATED BUFFER

LOCATION
LOT 4 ON RP893855,
COOK HIGHWAY,
KILLALOE
DOUGLAS SHIRE

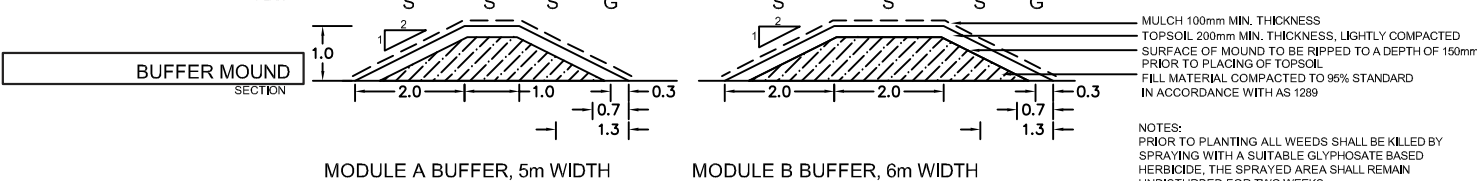
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APPROVED	RG
SCALE	N/A @ A3
DATE	APRIL 2026
SHEET No.	LPS_1
JOB No.	L2415

REV. A



PLANTING LAYOUT
PLAN

BUFFER MOUND
SECTION



PLANT SCHEDULE FOR TYPE A & B BUFFERS

NO. PER 10 m MODULE	BOTANICAL NAME	COMMON NAME	POT SIZE
PLANT 'G' 10 MIX & PLANT IN RANDOM ORDER	<i>Dianella caerulea</i>	Flax Lily	140mm
	<i>Gardenia psilioides</i>	Gardenia Glennie River	140mm
	<i>Lomandra hystrix</i>	Mat Rush	140mm
PLANT 'S' 16 SELECT SUBJECT TO AVAILABILITY MIN. MIX OF 4 SPECIES PLANT IN RANDOM ORDER	<i>Acmena smithii</i>	Lillipilli	140mm
	<i>Allocasuarina littoralis</i>	Black She Oak	140mm
	<i>Attractocarpus fitzalanii</i>	Brown Gardenia	140mm
	<i>Backhousia citriodora</i>	Lemon Scented Myrtle	140mm
	<i>Cleistanthus hylandii</i>	Bernie's Cystanthus	140mm
	<i>Gardenia scabrella</i>	Star Flower	140mm
	<i>Lea indica</i>	Bandicoot Berry	140mm
	<i>Phyllanthus cuscutiflorus</i>	Pink Phyllanthus	140mm
	<i>Syzygium australe</i>	Lillipilli	140mm

MODULE C BUFFER, 3m WIDTH

SINGLE ROW, NOT MOUNDED @ 1.5 m SPACINGS	BOTANICAL NAME	COMMON NAME	POT SIZE
NO. TOTAL = 90 PLANTS	<i>Acmena smithii</i>	Lillipilli	140mm
SELECT SUBJECT TO AVAILABILITY MIN. MIX OF 4 SPECIES PLANT IN RANDOM ORDER	<i>Attractocarpus fitzalanii</i>	Brown Gardenia	140mm
	<i>Callistemon 'Slim'</i>		140mm
	<i>Cleistanthus hylandii</i>	Bernie's Cystanthus	140mm
	<i>Gardenia scabrella</i>	Star Flower	140mm
	<i>Phyllanthus cuscutiflorus</i>	Pink Phyllanthus	140mm
	<i>Syzygium australe</i>	Lillipilli	140mm
	<i>Syzygium 'Straight & Narrow' PBR</i>		140mm

NOTES:
PRIOR TO PLANTING ALL WEEDS SHALL BE KILLED BY
SPRAYING WITH A SUITABLE GLYPHOSATE BASED
HERBICIDE. THE SPRAYED AREA SHALL REMAIN
UNDISTURBED FOR TWO WEEKS.
ALL BUFFERS TO BE INSTALLED WITH A
TEMPORARY IRRIGATION SYSTEM.

LANDSCAPE PLAN
SCALE 1:1200 @ A3



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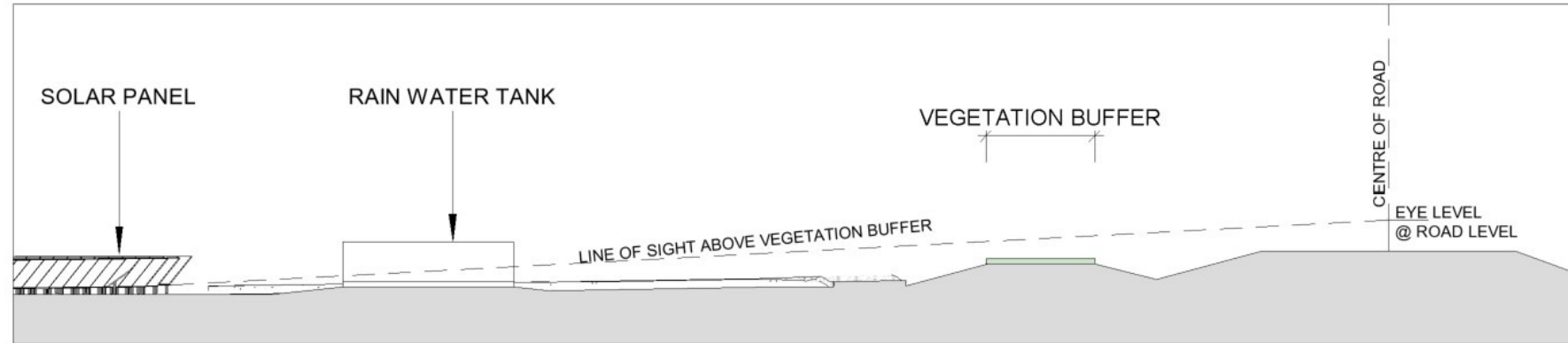
CLIENT
J & V NOLI PTY LTD

PROJECT
PROPOSED SOLAR FARM
VEGETATED BUFFERS
PLANTING PLAN, DETAILS
& SCHEDULES

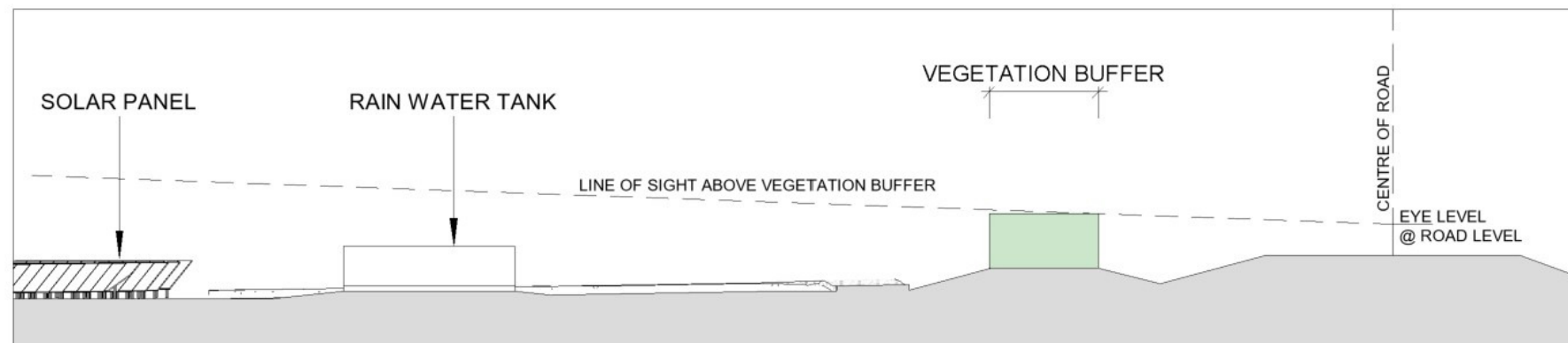
LOCATION
LOT 4 ON RP893855,
COOK HIGHWAY,
KILLALOE
DOUGLAS SHIRE

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DATE	12 AUGUST 2026		
SHEET No.	LPS_3	REV.	A
JOB No.	L2415		

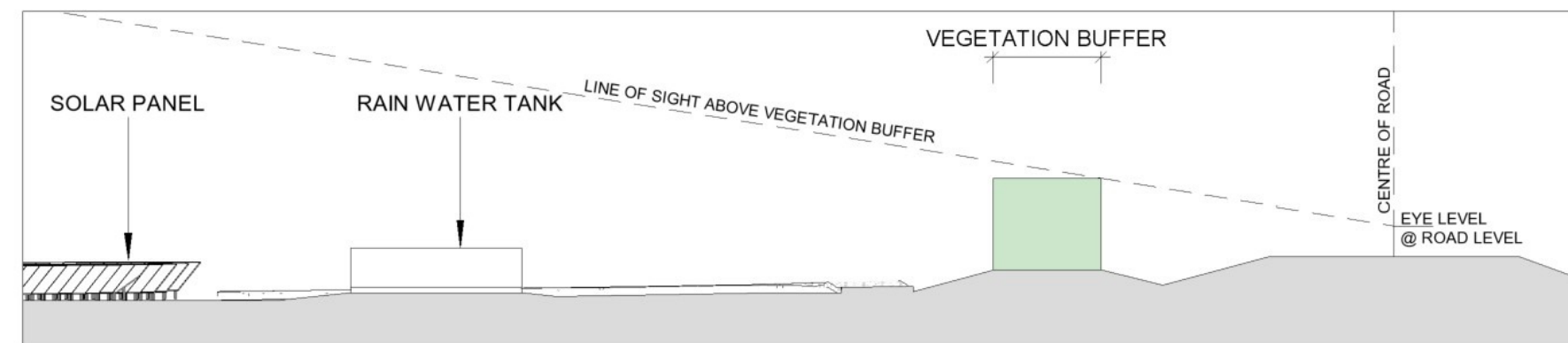
Sections of buffering through highway



0 YEAR VEGETATION ESTABLISHMENT, MOUNDED



3 YEAR VEGETATION ESTABLISHMENT, MOUNDED



5 YEAR VEGETATION ESTABLISHMENT, MOUNDED

ATTACHMENT B

brazier motti



ALKIRA SOLAR FARM & BATTERY ENERGY STORAGE SYSTEM

Preliminary Fire Management Plan

Prepared for Douglas Shire Council. This planning-stage Fire Management Plan supports the development application and will be updated following detailed engineering and prior to construction.

1 Executive Summary

This Fire Management Plan establishes the framework for prevention, preparedness, response and recovery for the Alkira Solar Farm and Battery Energy Storage System (BESS).

2 Scope

Covers bushfire, grassfire, electrical fire, transformer fire, battery thermal runaway, lightning, arson, maintenance activities, environmental protection and emergency response.

3 Applicable Guidance

Prepared having regard to Queensland guidance, relevant Australian Standards, project engineering documentation and accepted industry practice.

4 Site Description

Ground-mounted PV arrays, BESS, transformer, switchboards, internal access roads and perimeter fencing. All major infrastructure will be elevated above design flood level.

5 Fire Risk Assessment

Primary hazards include bushfire, vegetation fire, electrical faults, transformer faults, battery thermal runaway, lightning and machinery ignition.

6 Prevention Measures

Vegetation management, routine inspections, thermal monitoring, lightning protection, housekeeping, contractor induction and hot-work controls.

7 Design Controls

Concrete foundations, emergency isolation, remote monitoring, flood-resilient installation and controlled site access.

8 Bushfire Management

Seasonal fuel reduction, mowing, monitoring of fire warnings and suspension of high-risk work during extreme conditions.

9 Battery Fire Management

Continuous monitoring, exclusion zones, emergency isolation and response in accordance with manufacturer guidance.

10 Firefighting Water

Dedicated firefighting water supply to be installed before commissioning with final sizing confirmed during detailed design.

11 Emergency Access

All-weather emergency vehicle access, signed entry points and site emergency information.

12 Emergency Response

Raise alarm, notify emergency services, isolate equipment where safe, evacuate personnel and provide site plans.

13 Environmental Protection

Contain contaminated runoff where practicable and dispose of damaged equipment appropriately.

14 Training

Annual emergency training, inductions and periodic review.

15 Inspection Schedule

Routine inspection of vegetation, emergency equipment and electrical infrastructure.

16 Responsibilities

Defines owner, site manager, contractor and emergency service responsibilities.

17 Review

Review after major changes, incidents or every two years.

Hazard	Likelihood	Consequence	Primary Control
Grass fire	Medium	High	Vegetation management
Bushfire	Medium	High	Preparedness and access
Battery thermal runaway	Low	High	Monitoring and isolation
Transformer fire	Low	High	Protection systems
Lightning	Medium	Medium	Lightning protection

Flood-related electrical	Low Low	High	Raised platforms and concrete pads
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ATTACHMENT C

brazier motti



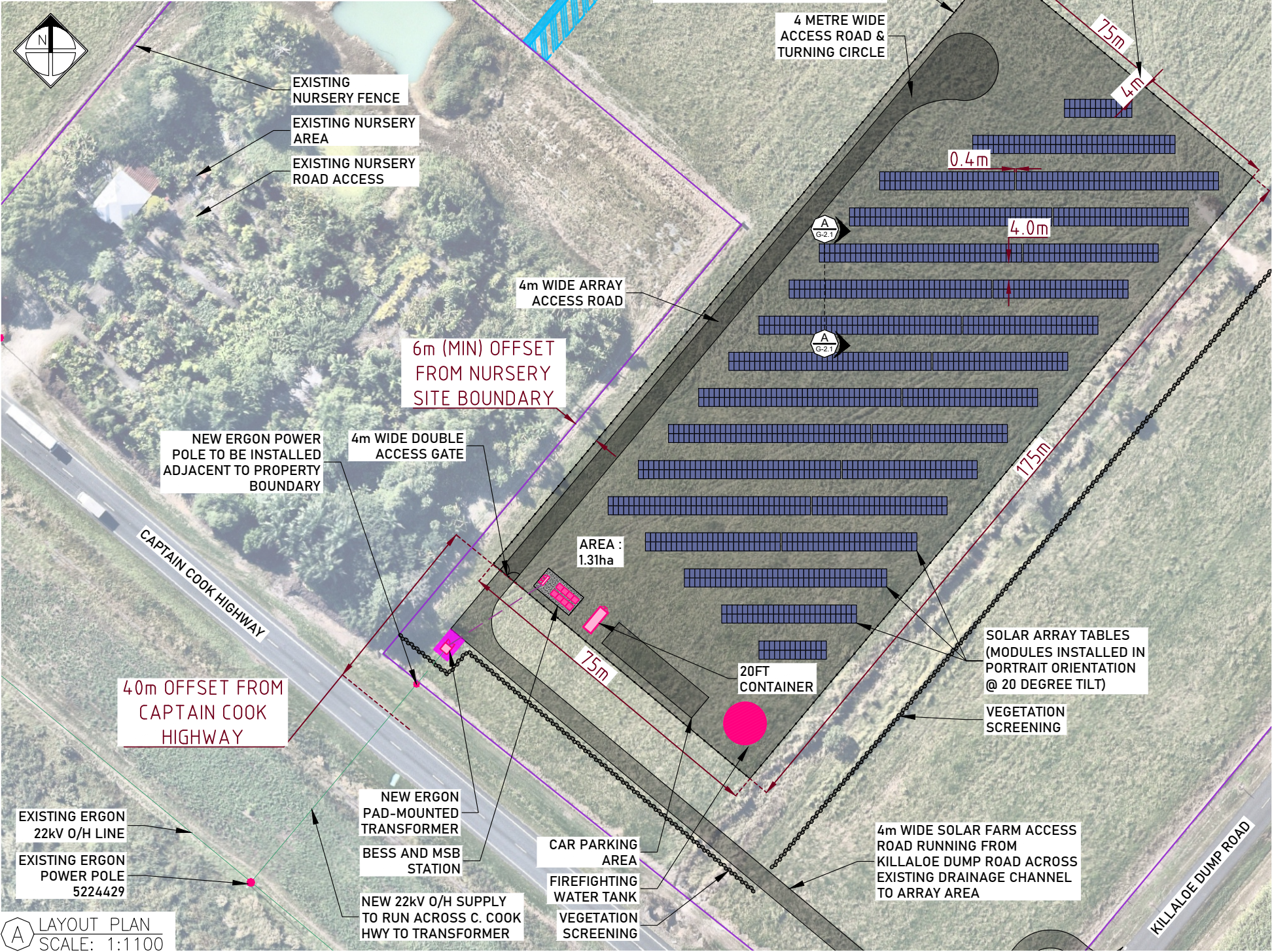
SITE DRAWING SCHEDULE		
No. IN SET	DRAWING NAME	DRAWING ID
1 / 5	TRANSMITTAL DRAWING	ALKIRA_SOLAR_&_BESS_G-0.0_DD-E
2 / 5	SITE LAYOUT PLAN	ALKIRA_SOLAR_&_BESS_G-1.0_DD-F
3 / 5	SECTIONS & DETAILS	ALKIRA_SOLAR_&_BESS_G-2.1_DD-A
4 / 5	AC SINGLE LINE DIAGRAM	ALKIRA_SOLAR_&_BESS_E-1.0_DD-D
5 / 5	DC SINGLE LINE DIAGRAM	ALKIRA_SOLAR_&_BESS_E-5.0_DD-B



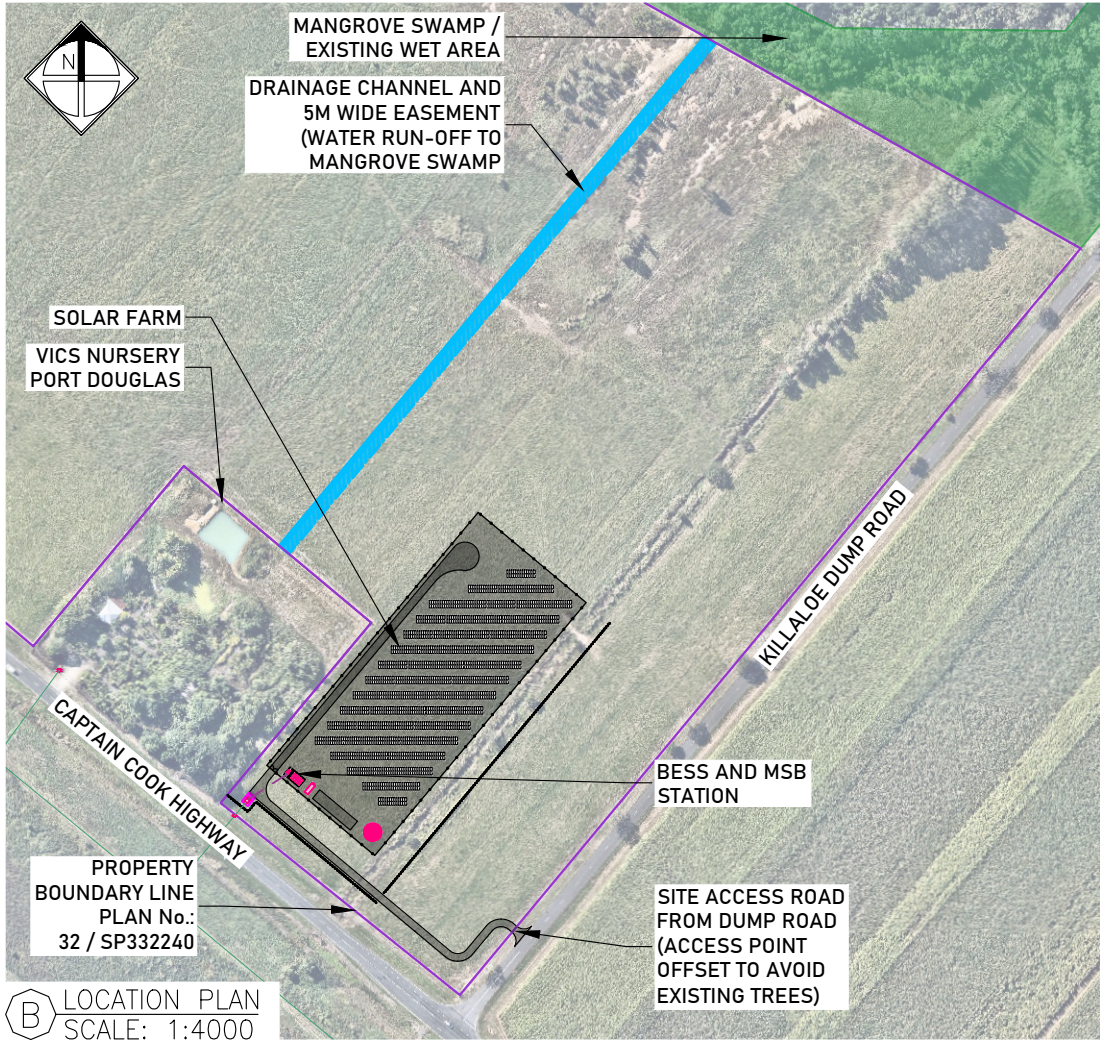
REVISION HISTORY					RPEQ No.:	RPEQ SIGNATURE:	SOLAR DC CAPACITY:	SOLAR AC CAPACITY:	BESS CAPACITY:	DRAWING SCALE:	DRAWN BY:	PROJECT ID:	SHEET:	
ISSUE	REV	REVISION ITEMS		DATE	D.B.		990.08 kW	999.00 kW	2236kWh	NTS	ISC	ALKIRA SOLAR FARM & BESS INSTALLATION		1 / 5
DD	A	INITIAL ISSUE FOR REVIEW AND COMMENT		23/12/2025	ISC		MODULE QTY & TYPE:			SHEET SIZE:		AUTHORISED BY:	PROJECT ADDRESS:	
DD	B	DRAWING REVISIONS UPDATED		22/01/2026	ISC		1664x JINKO JKM595N-72HL4-BDV 595W			A3		AT	6730 CAPTAIN COOK HIGHWAY, KILLALOE, QLD 4873	
DD	C	DRAWING REVISIONS UPDATED		05/02/2026	ISC		INVERTER QTY & TYPE:			DRAWING ISSUE:		DRAWING TITLE:		
DD	D	DRAWING REVISIONS UPDATED		28/07/2026	ISC		8x DELTA AiO BOX TYPE C 125kW / 279.5kWh (SOFTWARE LIMITED)			DETAILED DESIGN		TRANSMITTAL DRAWING		
DD	E	DRAWING REVISIONS UPDATED		11/08/2026	ISC		BATTERY ENERGY STORAGE SYSTEM:			ISSUE DATE:		DRAWING ID:		DRAWING REVISION:
							INTEGRATED WITH DELTA AiO BOX			11/08/2026		ALKIRA_SOLAR_&_BESS_G-0.0_DD		E

DRAWING NOTES

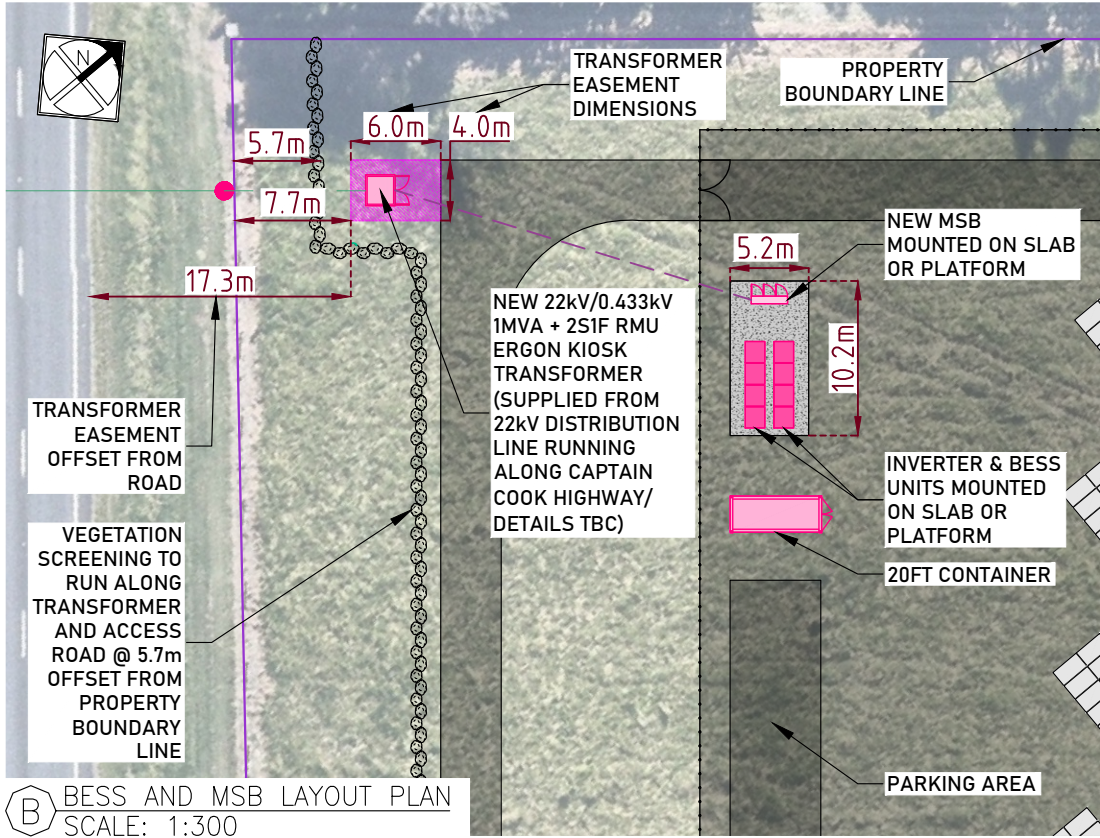
- 1. The depicted solar and BESS system represents an indicative design only, all details to be confirmed.
- 2. Inverter station layout, exact positioning of all components and placement of parking spots to be reviewed and adjusted as required.
- 3. The total footprint of the new development (excluding access road) does not exceed 1.5ha in area.
- 4. BESS & Inverter boxes, MSB & Transformer to be installed on raised concrete slab above 100 year flood level.



A LAYOUT PLAN
SCALE: 1:1100



B LOCATION PLAN
SCALE: 1:4000



B BESS AND MSB LAYOUT PLAN
SCALE: 1:300

REVISION HISTORY				
ISSUE	REV	REVISION ITEMS	DATE	D.B.
DD	A	DRAFT DESIGN ISSUE FOR SITE SURVEY ONLY	15/12/2025	ISC
DD	B	DIMENSIONS & ANNOTATIONS ADDED	15/12/2025	ISC
DD	C	SYSTEM LAYOUT UPDATED	23/12/2025	ISC
DD	D	SYSTEM LAYOUT UPDATED	22/01/2026	ISC
DD	E	SYSTEM LAYOUT UPDATED	05/02/2026	ISC
DD	F	SYSTEM LAYOUT UPDATED - TX AND OH SERVICES DETAILS	09/07/2026	AL
DD	G	SYSTEM LAYOUT UPDATED	28/07/2026	ISC
DD	H	SYSTEM LAYOUT UPDATED	11/08/2026	ISC

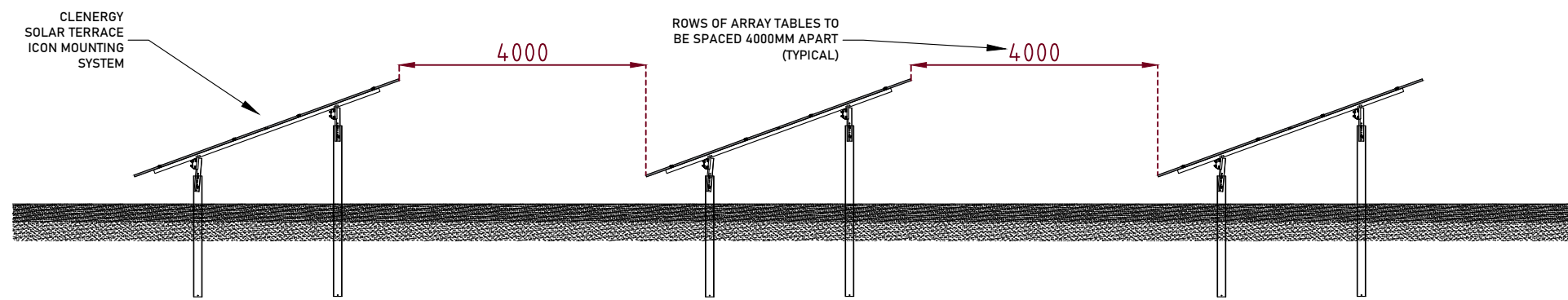
RPEQ No.:	RPEQ 33580
RPEQ NAME:	AVNEEL LALLU
DATE SIGNED:	

RPEQ SIGNATURE:	
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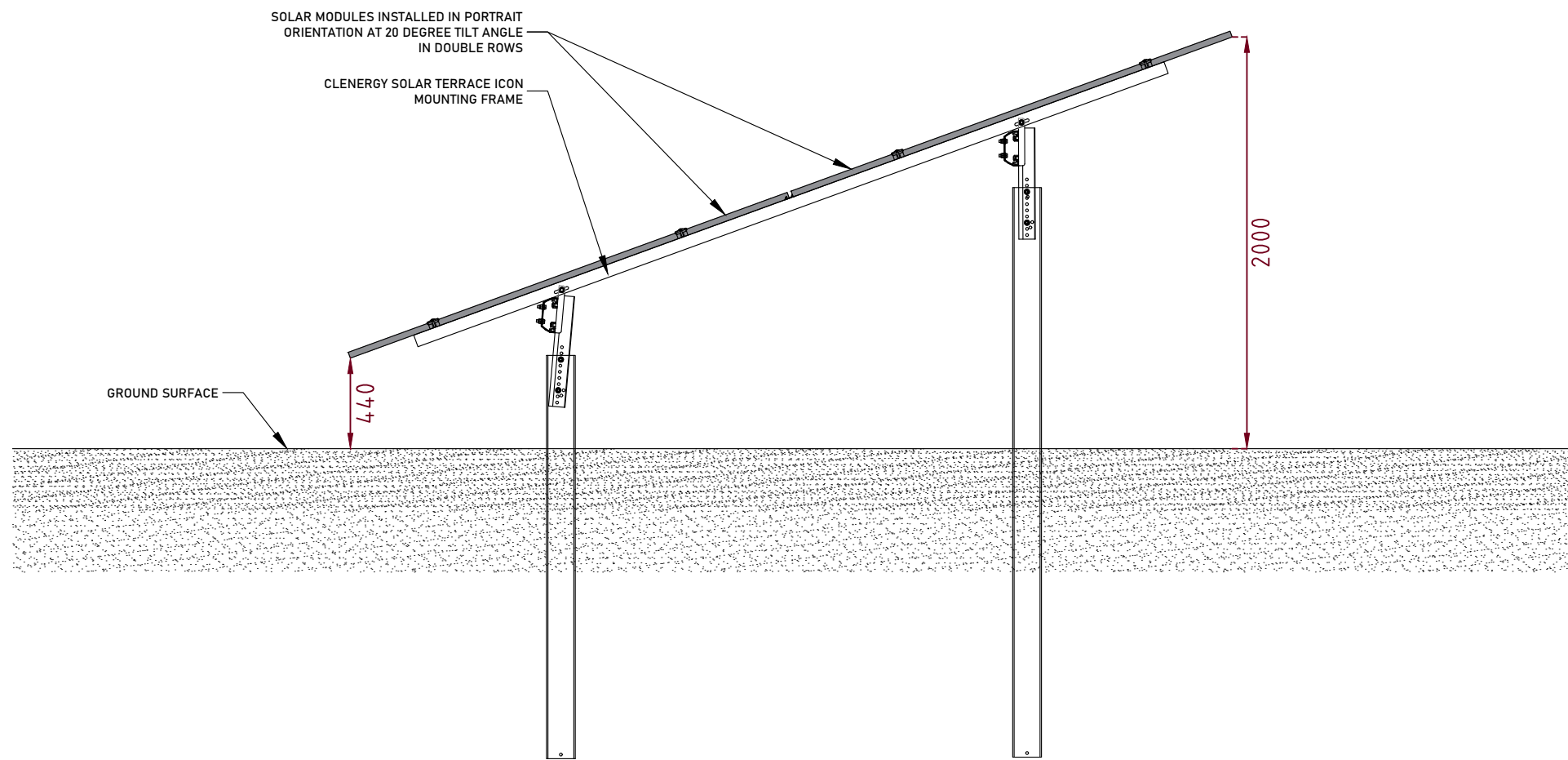
SOLAR DC CAPACITY:	990.08 kW
SOLAR AC CAPACITY:	999.00 kW
BESS CAPACITY:	2236kWh
MODULE QTY & TYPE:	1664x JINKO JKM595N-72HL4-BDV 595W
INVERTER QTY & TYPE:	8x DELTA A10 BOX TYPE C 125kW / 279.5kWh (SOFTWARE LIMITED)
BATTERY ENERGY STORAGE SYSTEM:	INTEGRATED WITH DELTA A10 BOX

DRAWING SCALE:	NTS
SHEET SIZE:	A3
DRAWING ISSUE:	DETAILED DESIGN
ISSUE DATE:	11/08/2026

PROJECT ID:	ALKIRA SOLAR FARM & BESS INSTALLATION	SHEET:	2 / 5
PROJECT ADDRESS:	6730 CAPTAIN COOK HIGHWAY, KILLALOE, QLD 4873	DRAWING TITLE:	SITE LAYOUT PLAN
DRAWING ID:	ALKIRA_SOLAR_&_BESS_G-1.0_DD	DRAWING REVISION:	H



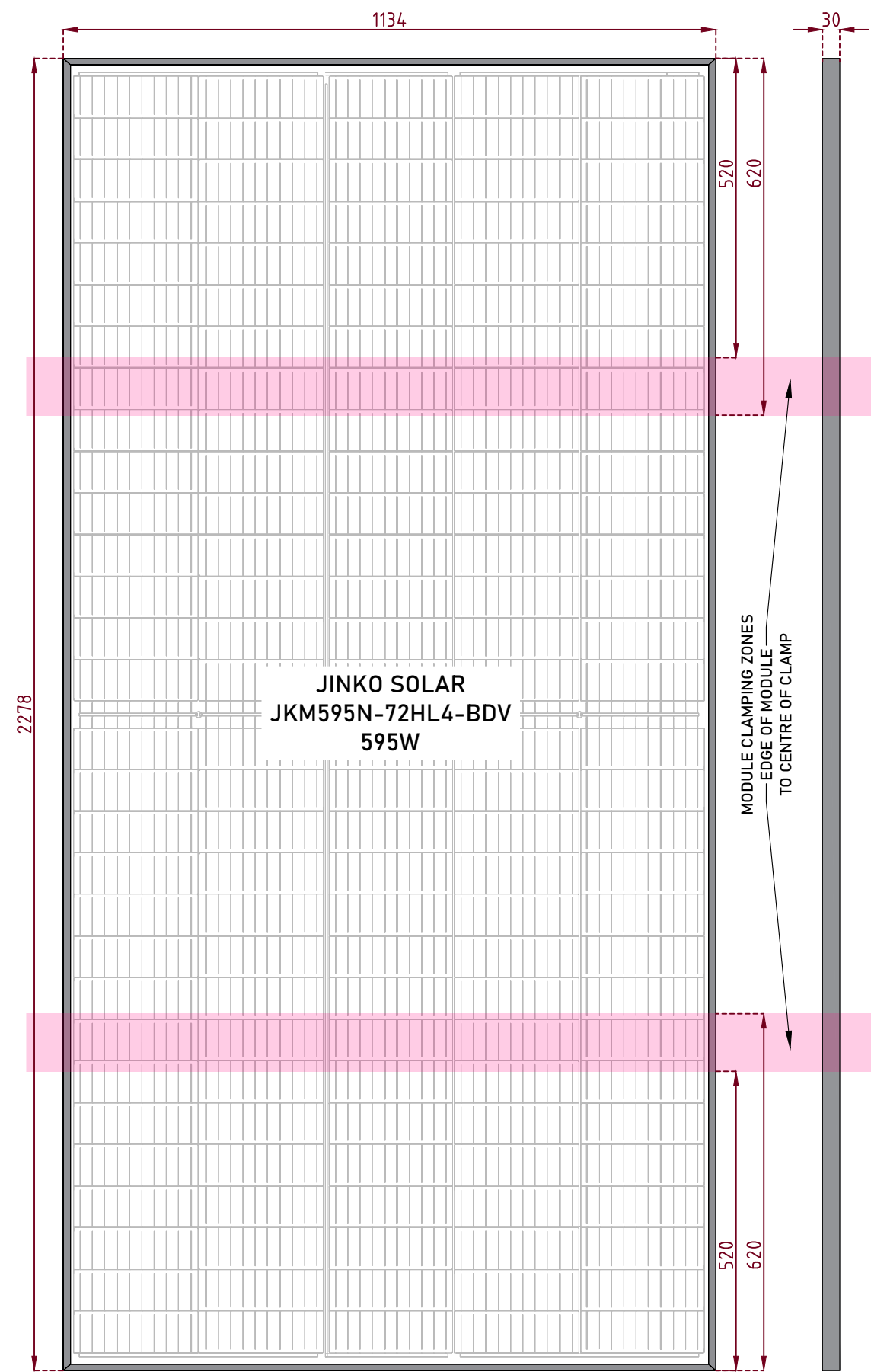
A SOLAR ARRAY FIELD SIDE ELEVATION VIEW
SCALE 1:100



B SOLAR ARRAY TABLE SIDE ELEVATION
SCALE 1:30

DRAWING NOTES

- 1. All dimensions are in millimetres unless otherwise shown.
- 2. Section detail views are for illustration purpose only. Exact details may vary.
- 3. Indicated clamping zones are in accordance with the information provided by the module manufacturer's installation manual.
- 4. Freeboard of solar modules above surface to be confirmed and adjusted as required based on applicable flood levels.
- 5. Installation method and embedment depth of array posts to be confirmed based on geotechnical investigation.



C MODULE FRONT AND SIDE VIEW DETAIL
SCALE 1:10



REVISION HISTORY				
ISSUE	REV	REVISION ITEMS	DATE	D.B.
DD	A	INITIAL ISSUE FOR REVIEW & COMMENT	23/12/2025	ISC

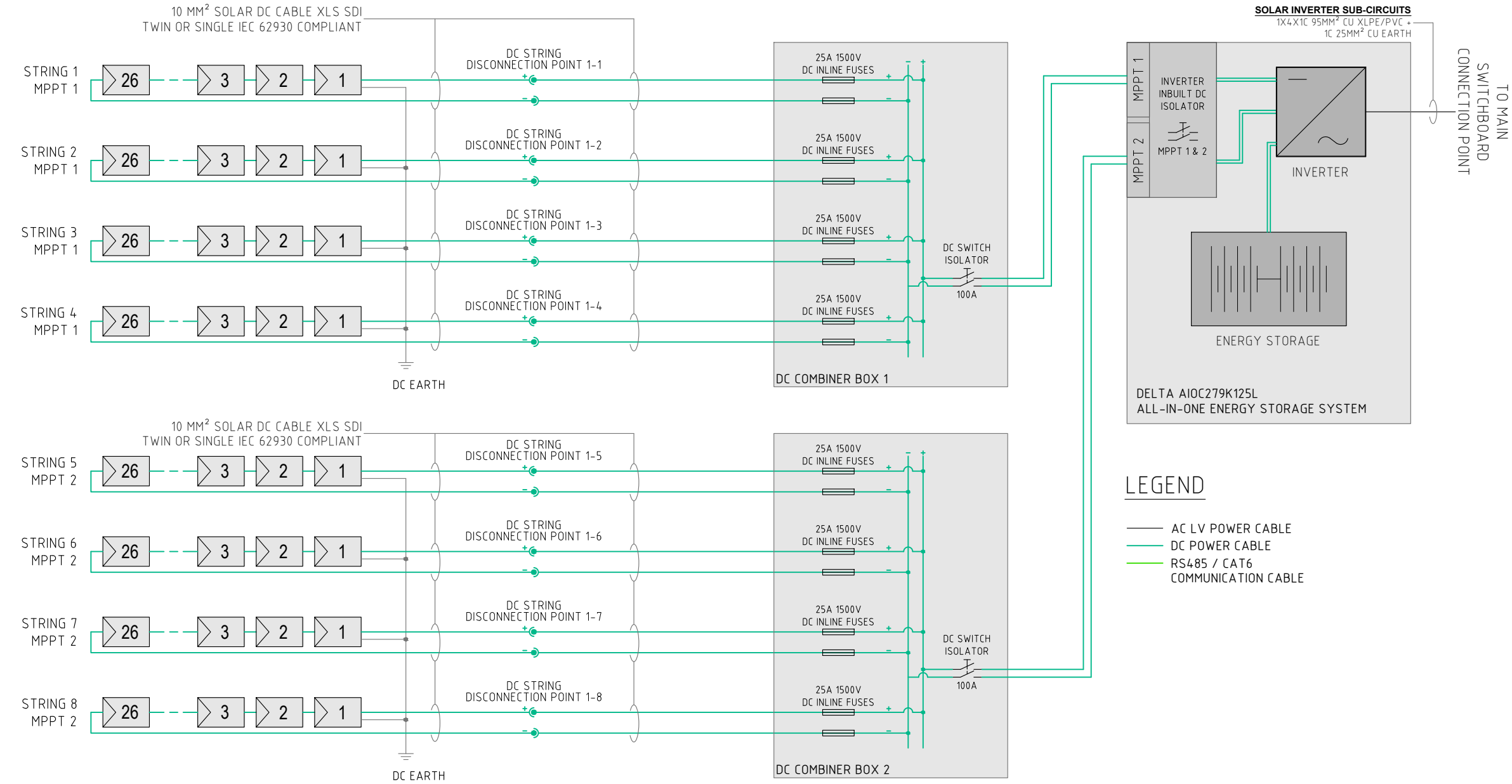
RPEQ No.: RPEQ 33580
RPEQ NAME: AVNEEL LALLU
DATE SIGNED:

RPEQ SIGNATURE:

SOLAR DC CAPACITY: 990.08 kW	SOLAR AC CAPACITY: 999.00 kW	BESS CAPACITY: 2236kWh
MODULE QTY & TYPE: 1664x JINKO JKM595N-72HL4-BDV 595W		
INVERTER QTY & TYPE: 8x DELTA AiO BOX TYPE C 125kW / 279.5kWh (SOFTWARE LIMITED)		
BATTERY ENERGY STORAGE SYSTEM: INTEGRATED WITH DELTA AiO BOX		

DRAWING SCALE: NTS	DRAWN BY: ISC
SHEET SIZE: A3	AUTHORISED BY: AT
DRAWING ISSUE: DETAILED DESIGN	
ISSUE DATE: 23/12/2025	

PROJECT ID: ALKIRA SOLAR FARM & BESS INSTALLATION	SHEET: 3 / 5
PROJECT ADDRESS: 6730 CAPTAIN COOK HIGHWAY, KILLALOE, QLD 4873	
DRAWING TITLE: SECTIONS & DETAILS	
DRAWING ID: ALKIRA_SOLAR_&_BESS_G-2.1_DD	DRAWING REVISION: A



- DRAWING NOTES**
- 1. THE DC array configuration shown on this schematic is applicable to all 8 AIO energy storage Units.
 - 2. DC earth cable size and configuration to be confirmed.
 - 3. It is assumed that no lightning protection system will be installed for this system.

- LEGEND**
- AC LV POWER CABLE
 - DC POWER CABLE
 - RS485 / CAT6 COMMUNICATION CABLE

TYPICAL INVERTER CONFIGURATION

208 X JINKO TIGER NEO JKM-595N-72HL4M-BDV 590W
123.76KW DC / 125.00KW AC

STRING CONFIGURATION TYPE #	1
STRING ARRANGEMENT	1 Single String
# OF MODULES PER STRING	26
# OF PARALLELED STRINGS	/
MODULE ID	JINKO
MODULE PRODUCT CODE	JKM595N-72HL4-BDV
RATED MODULE CAPACITY (W)	595.00
MODULE VOC (V)	53.13
MODULE ISC (A)	15.43
MODULE IMPP (A)	14.73
ARRAY VOC (V)	1381.38
ARRAY ISC / MPPT (A)	61.72
ARRAY RATED ISC / MPPT (ARRAY ISC * 1.25) (A)	77.15
ARRAY IMPP / MPPT (A)	58.92
MAXIMUM ARRAY VOLTAGE (V) @ + 1.7 DEGREE MIN. TEMP.	1473.59



REVISION HISTORY				
ISSUE	REV	REVISION ITEMS	DATE	D.B.
DD	A	INITIAL ISSUE FOR REVIEW & COMMENT	23/12/2025	ISC
DD	B	STRING CONFIGURATION UPDATED	11/08/2026	ISC

RPEQ No.: RPEQ 33580
RPEQ NAME: AVNEEL LALLU
DATE SIGNED:

RPEQ SIGNATURE:

SOLAR DC CAPACITY: 990.08 kW	SOLAR AC CAPACITY: 999.00 kW	BESS CAPACITY: 2236kWh
MODULE QTY & TYPE: 1664x JINKO JKM595N-72HL4-BDV 595W		
INVERTER QTY & TYPE: 8x DELTA AiO BOX TYPE C 125kW / 279.5kWh (SOFTWARE LIMITED)		
BATTERY ENERGY STORAGE SYSTEM: INTEGRATED WITH DELTA AiO BOX		

DRAWING SCALE: NTS	DRAWN BY: ISC
SHEET SIZE: A3	AUTHORISED BY: AT
DRAWING ISSUE: DETAILED DESIGN	
ISSUE DATE: 11/08/2026	

PROJECT ID: ALKIRA SOLAR FARM & BESS INSTALLATION	SHEET: 5 / 5
PROJECT ADDRESS: 6730 CAPTAIN COOK HIGHWAY, KILLALOE, QLD 4873	
DRAWING TITLE: DC SINGLE LINE DIAGRAM	
DRAWING ID: ALKIRA_SOLAR_&_BESS_E-5.0_DD	DRAWING REVISION: B