

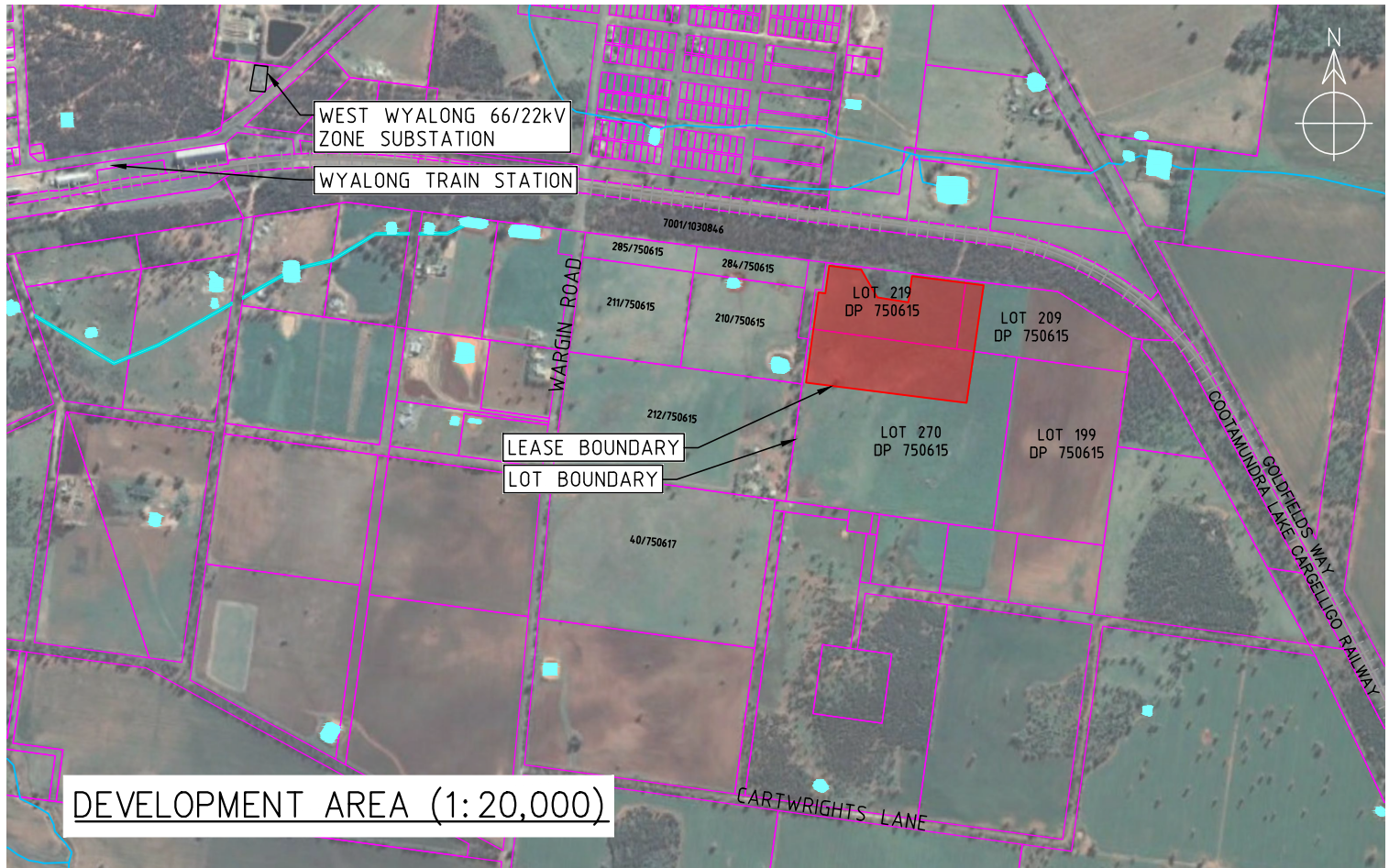


ADDRESS  
LOT 209, 219 & 270, DP750615  
CARTWRIGHTS LANE  
WYALONG  
NSW 2671

COORDINATES  
-33.937054°, 147.247793°

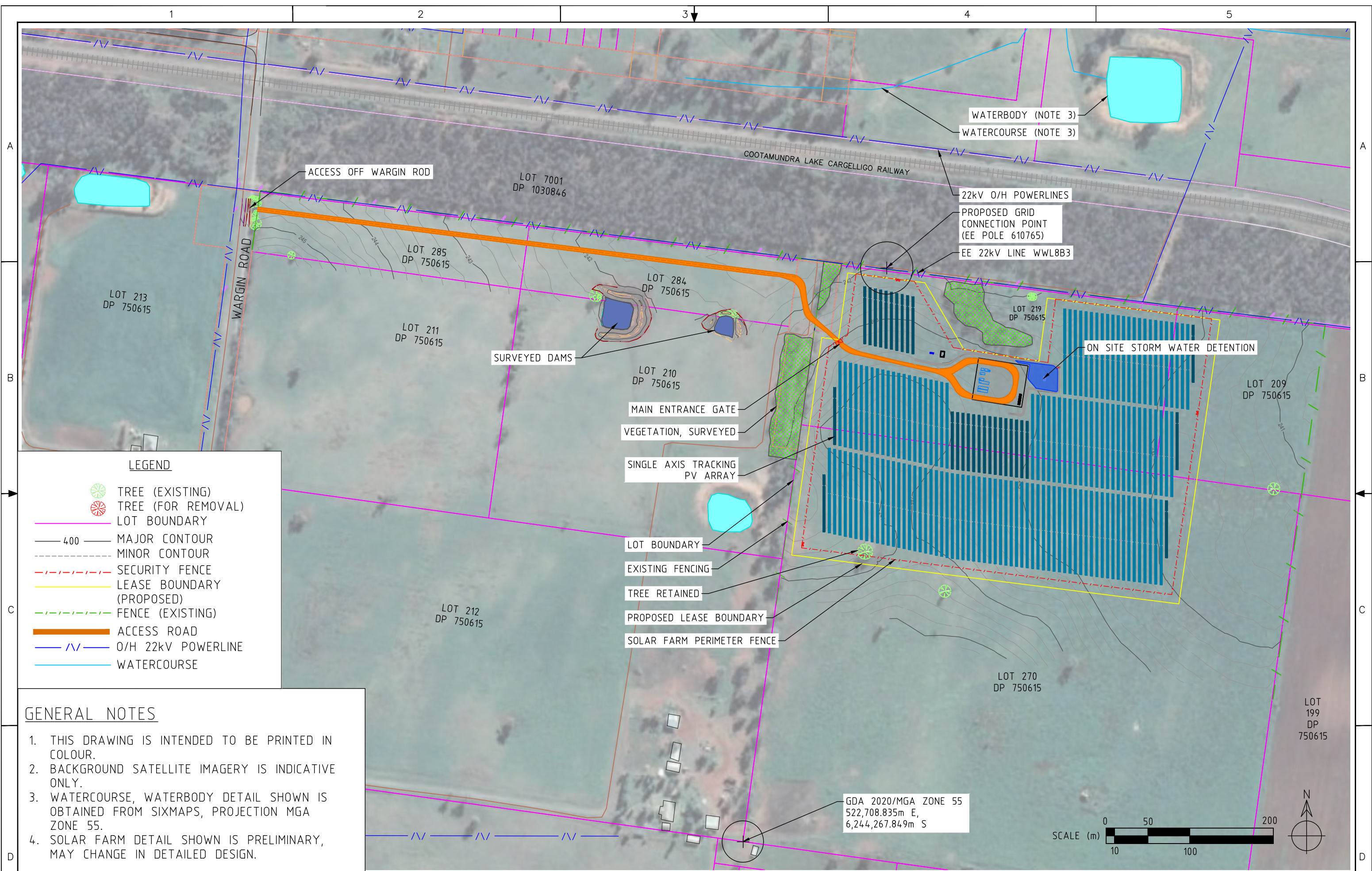


NSW STATE MAP



REFERENCES	REVISIONS									
		A	2021.04.08	FIRST ISSUE			JM	JM	SS	JM
		REV.	DATE	DESCRIPTION			DRWN.	DESIGNED	CHKD.	APPR.





GENERAL NOTES

1. THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR.
2. BACKGROUND SATELLITE IMAGERY IS INDICATIVE ONLY.
3. WATERCOURSE, WATERBODY DETAIL SHOWN IS OBTAINED FROM SIXMAPS, PROJECTION MGA ZONE 55.
4. SOLAR FARM DETAIL SHOWN IS PRELIMINARY, MAY CHANGE IN DETAILED DESIGN.



REFERENCES		REV		DATE		DESCRIPTION		DRWN.	DESIGNED	CHKD.	APPR.
		B		2020.05.11		ISSUED WITH OSD DETAIL		JM	JM	SS	JM
		A		2020.04.08		FIRST ISSUE		JM	JM	SS	JM

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TITLE  
PROVIDENCE ASSET GROUP  
PINE RIDGE SOLAR FARM  
GENERAL ARRANGEMENT  
OVERVIEW  
DWG No. 10190-G-GAD-02-1

SCALE  
1:4000  
REVISION  
B  
PAPER SIZE  
A3



LEGEND

- TREE (EXISTING)
- TREE (FOR REMOVAL)
- LOT BOUNDARY
- 400 MAJOR CONTOUR
- MINOR CONTOUR
- SECURITY FENCE
- FENCE (EXISTING)
- LEASE BOUNDARY (PROPOSED)
- PV TABLE
- O/H 22kV POWERLINE
- WATERCOURSE

SYSTEM SUMMARY

ELECTRICAL CONFIGURATION:  
TOTAL PV PLANT CAPACITY (DC): 7.031 Mwp  
TOTAL INVERTER CAPACITY (AC): 4.95MVA  
PV PLANT MAXIMUM EXPORT CAPACITY (AC): 4.95MW  
DC:AC RATIO: 1.420  
STRINGS OF 28 PV MODULES.  
232/233 PV STRINGS PER INVERTER.  
465 PV STRINGS TOTAL.

PV MODULES:  
MFR: LONGI SOLAR  
MODEL: LR5-72HPH-540M  
NAMEPLATE: 540Wp  
QUANTITY: 13,020 MODULES

INVERTERS:  
MFR: SUNGROW  
MODEL: SG2475HV-MV  
NAMEPLATE: 2475kVA  
QUANTITY: 2

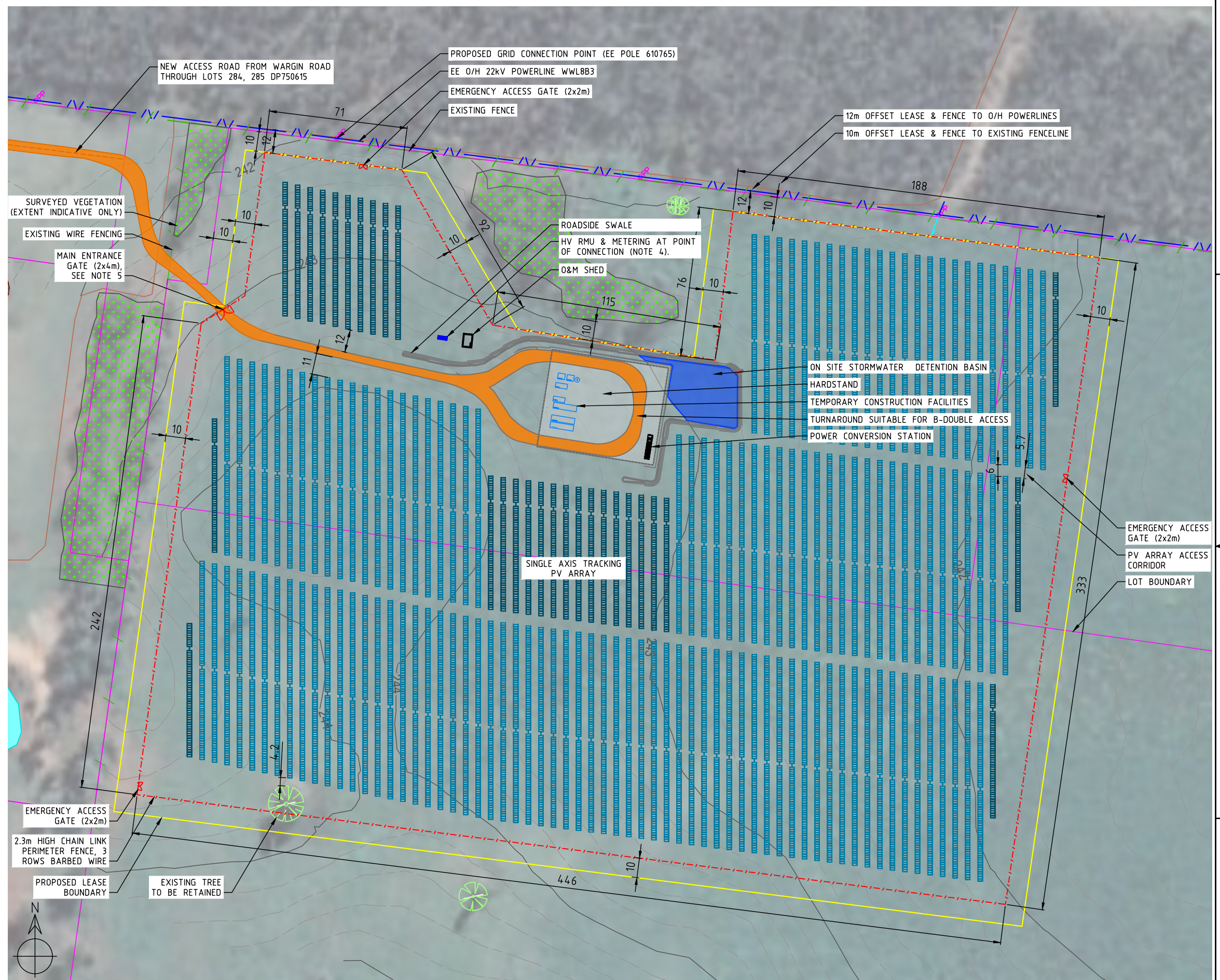
MV POWER STATION:  
MFR: SUNGROW  
MODEL: SG4950HV-MV  
QUANTITY: 1

TRACKER ARRAY:  
TYPE: GROUND MOUNT SINGLE AXIS TRACKING  
CONFIGURATION: INDEPENDENT TYPE  
RANGE OF MOTION:  $\pm 60^\circ$   
PITCH: 6.4m  
GCR: 35.25%  
QUANTITY: 165 TABLES (135 LONG, 30 SHORT)

FENCED AREA: 136,794 m<sup>2</sup>  
LEASE AREA: 149,941 m<sup>2</sup>

GENERAL NOTES:

- SITE ACCESS VIA NEW ACCESS ROAD FROM WARGIN ROAD.
- DETAIL SHOWN IS PRELIMINARY, MAY CHANGE IN DETAILED DESIGN.
- CLEARANCE BETWEEN SOLAR TRACKER ARRAY & SITE SECURITY FENCE TYPICALLY 10m.
- HV RMU & METERING (LOCATION AND TYPE TO BE DETERMINED, IS SUBJECT TO ESSENTIAL ENERGY FEEDBACK).
- FOR SECURITY GATE DETAILS REFER TO DRAWING 10190-C-DET-02-1.
- WATERCOURSE, WATERBODY DETAIL FROM SIXMAPS, MGA ZONE 55 PROJECTION.
- REFER TO CIVIL DETAIL DRAWING 10190-C-DET-01-1.



REFERENCES

REVISIONS

REV	DATE	DESCRIPTION	DRWN.	DESIGNED	CHKD.	APPR.
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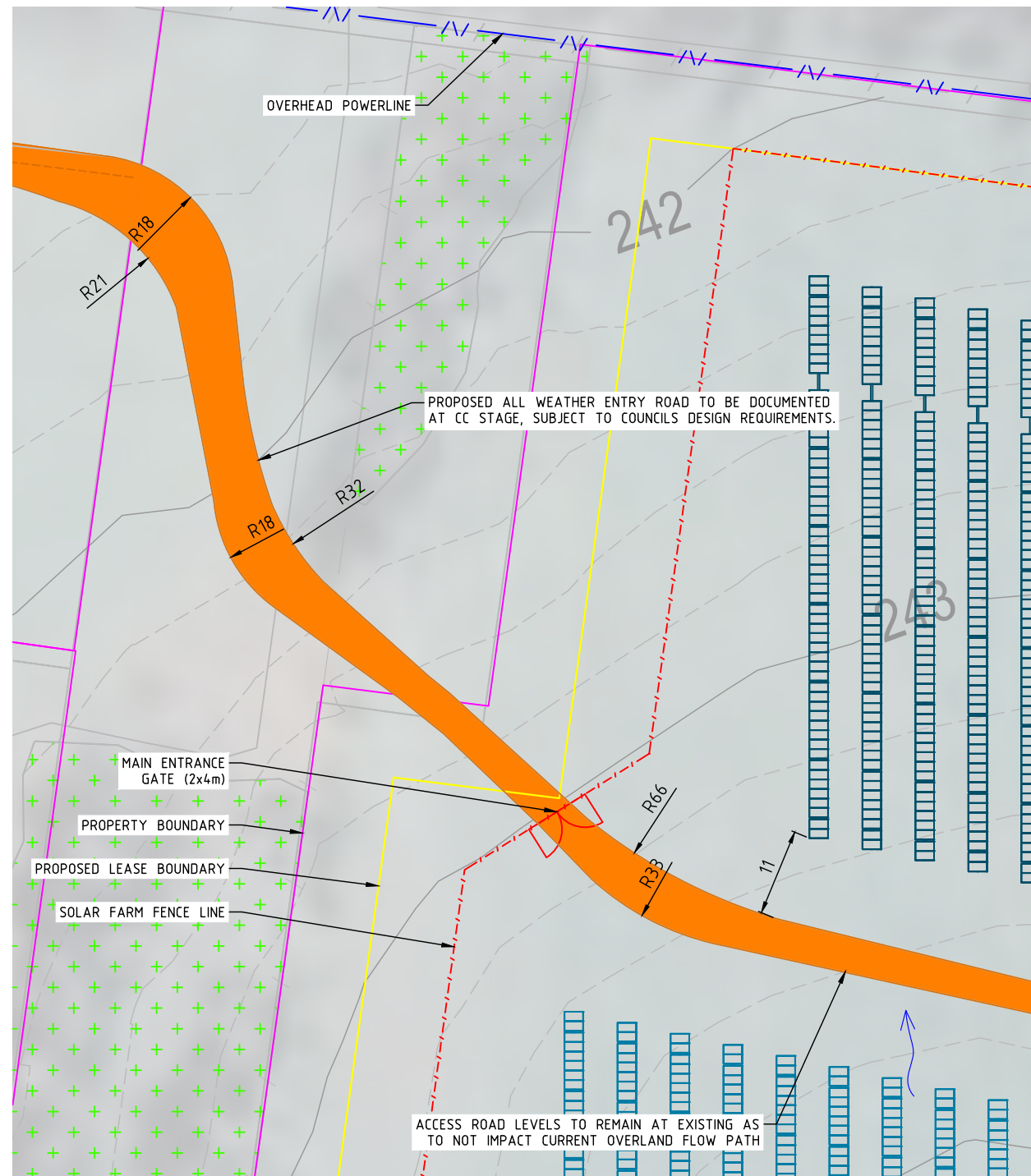
TITLE  
PROVIDENCE ASSET GROUP  
PINE RIDGE SOLAR FARM  
GENERAL ARRANGEMENT  
SYSTEM DETAIL  
DWG No. 10190-G-GAD-03-1

SCALE  
1:2000  
REVISION  
B  
PAPER SIZE  
A3

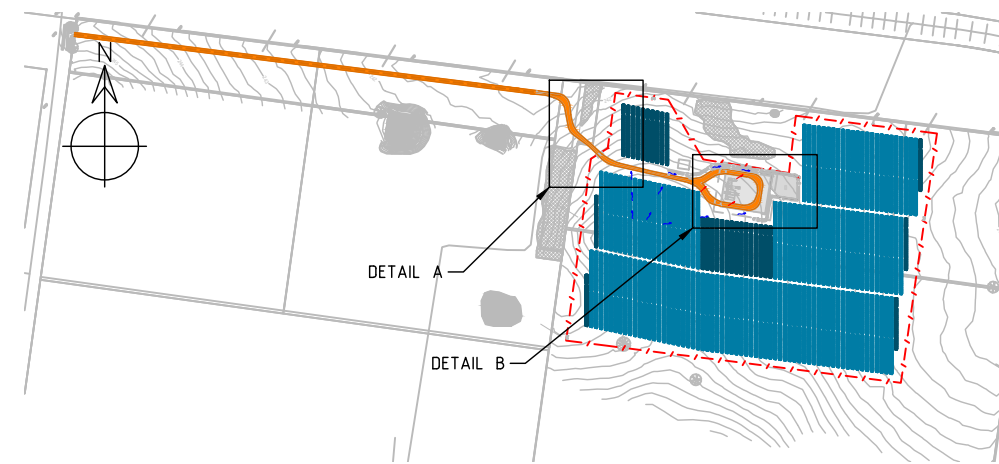


# LEGEND

- DIRECTION OF SURFACE FLOW
- OVERLAND FLOW PATH
- 400 MAJOR CONTOUR
- MINOR CONTOUR



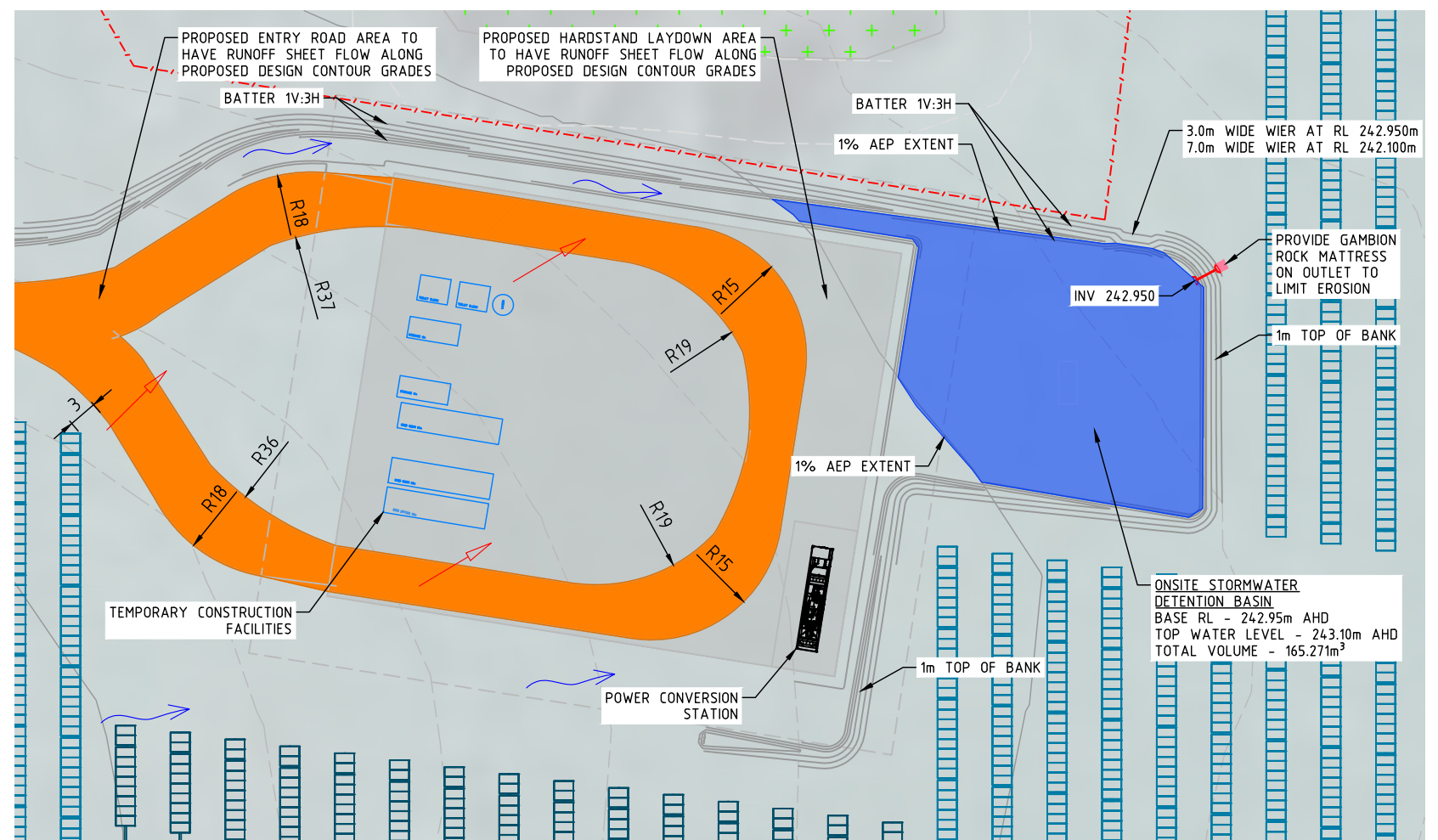
DETAIL A: SITE ENTRY (1:750)



PLAN VIEW: (1:10,000)

# GENERAL NOTES

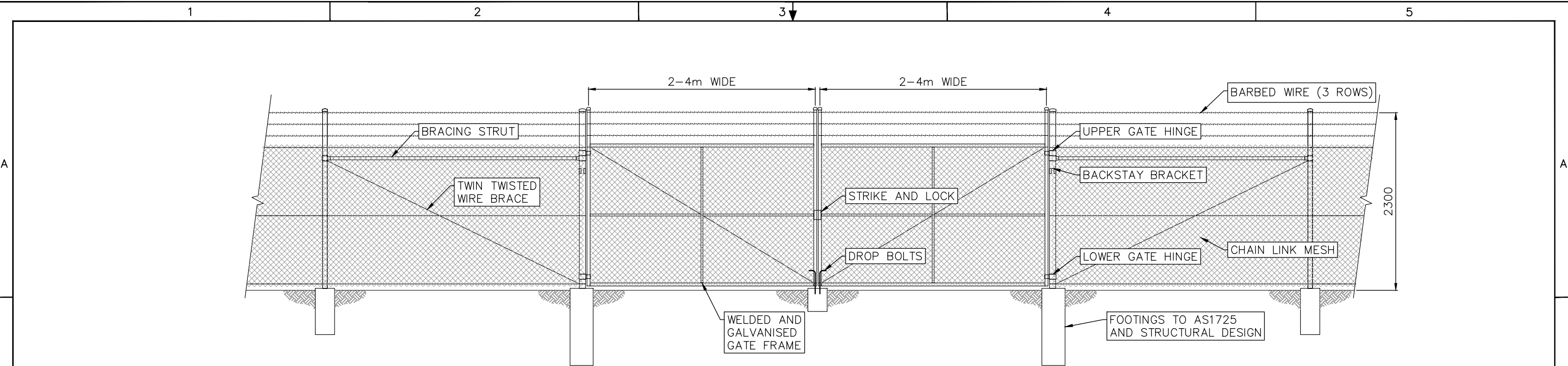
- PRELIMINARY DETAIL SHOWN, MAY CHANGE IN DETAILED DESIGN.
- EXISTING ACCESS TRACK TO BE UPGRADED INTO TRAFFICABLE ROAD FOR B-DOUBLE.
- REFER TO 10190-C-DET-02-1 FOR PRELIMINARY ROAD SECTIONAL DETAIL.
- REFER TO DETAIL VIEWS FOR PRELIMINARY ON SITE STORMWATER DETENTION DETAIL.



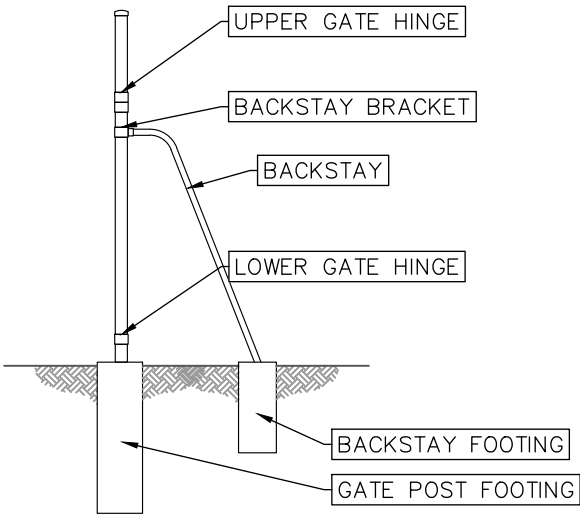
DETAIL B: ON SITE STORMWATER DETENTION (1:750)

REV	DATE	DESCRIPTION	DRWN.	DESIGNED	CHKD.	APPR.
A	2021.05.11	FIRST ISSUE	SS	SS	JM	JM





TYPICAL FENCE & GATE ELEVATION



TYPICAL BACKSTAY ELEVATION

GENERAL NOTES

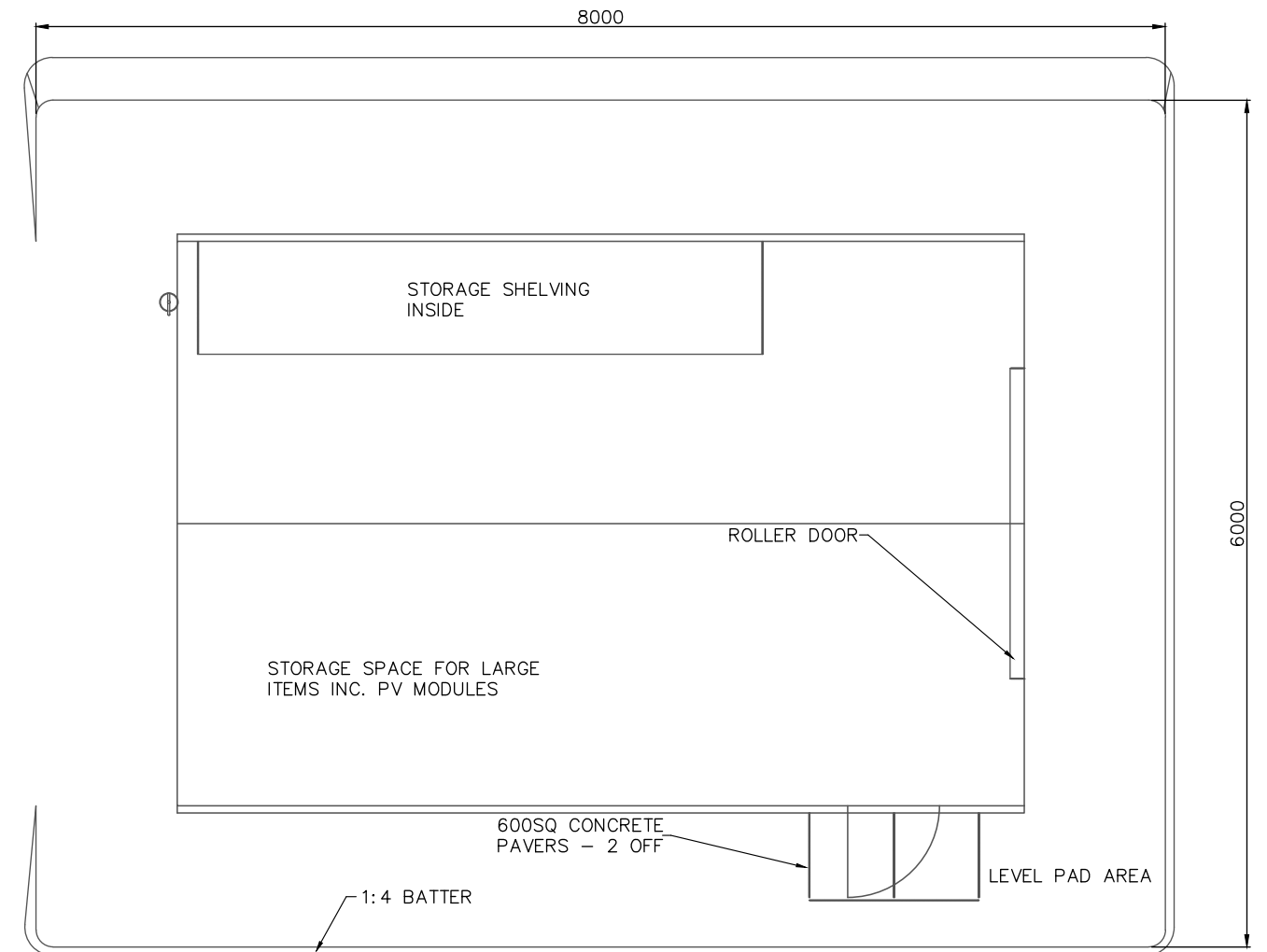
1. SOLAR FARM PERIMETER FENCE TO BE GALVANISED CHAIN LINK MESH FENCE WITH 3 ROWS BARBED WIRE.
2. NOMINAL MESH HEIGHT TO BE 1800mm.
3. NOMINAL OVERALL HEIGHT TO BE 2300mm +/- 100mm.
4. ALL FENCING COMPONENTS AND FOOTINGS TO COMPLY WITH AS 1725.
5. GATE WIDTH AS PER GA LAYOUT DRAWINGS.
6. BRACING STRUT AND WIRE BRACE REQUIRED AT ENDS, CORNERS AND GATES. DIAGONAL BRACE STRUT MAY ALSO BE USED IN LIEU OF BRACE & WIRE.
7. INTERMEDIATE BRACED PANEL CONSISTING OF TWIN TWISTED WIRE BRACE ON BOTH DIAGONALS REQUIRED AT MAX. 150m INTERVALS.
8. PERSONNEL ACCESS GATES REQUIRE BRACING STRUTS ON BOTH SIDES.
9. FOOTING DESIGN TO BE CONFIRMED DURING DETAILED DESIGN.
10. FENCE GENERALLY NOT REQUIRED TO BE EARTHED UNLESS IN CLOSE IS PROXIMITY TO ELECTRICAL COMPONENTS OR AS REQUIRED WITHIN UTILITY EASEMENTS OR SIMILAR. TO BE DETERMINED DURING DETAILED DESIGN.

REV. DATE		DESCRIPTION		DRWN.	DESIGNED	CHKD.	APPR.
A	2021.02.15	FIRST ISSUE		JM	JM	SS	JM

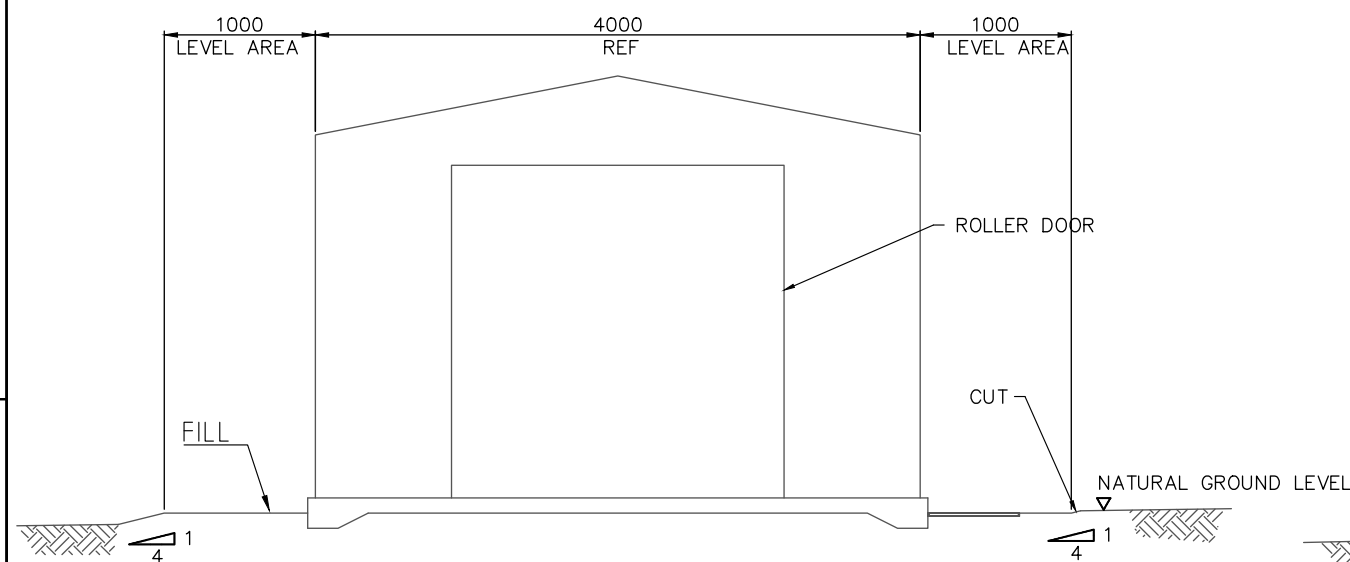
TITLE		SCALE
PROVIDENCE ASSET GROUP		DNS
PINE RIDGE SOLAR FARM		REVISION
SECURITY FENCE DETAIL		A
TYPICAL		PAPER SIZE
DWG No. 10190-C-DET-02-1		A3



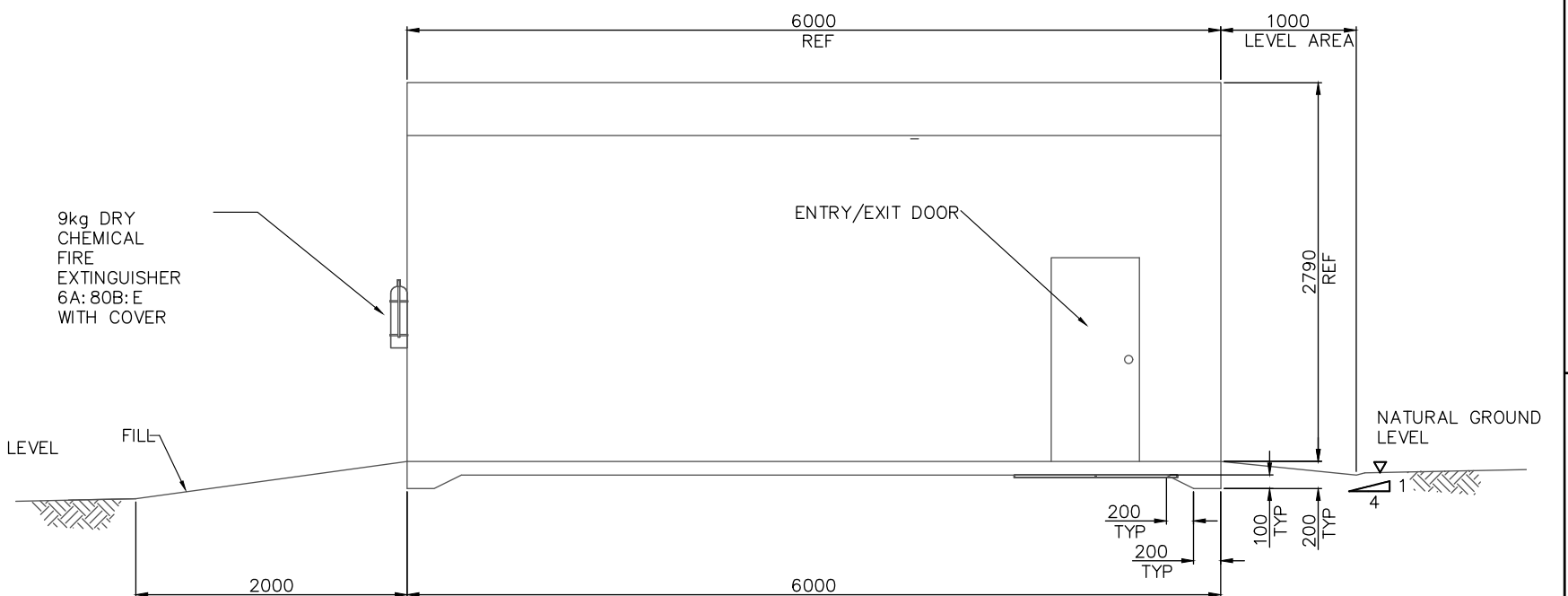
1. DIMENSIONS ARE SHOWN IN MILLIMETERS (mm)
2. SHED DESIGNED AND SUPPLIED BY (TBC).
3. WIND REGION A1, IMPORTANCE LEVEL 2
4. COMPLIES WITH PART B1 OF BUILDING CODE OF AUSTRALIA



## PLAN



SIDE ELEVATION

ELEVATION

REFERENCES	REVISIONS							
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		REV.	DATE	DESCRIPTION	DRWN.	DESIGNED	CHKD.	APPR

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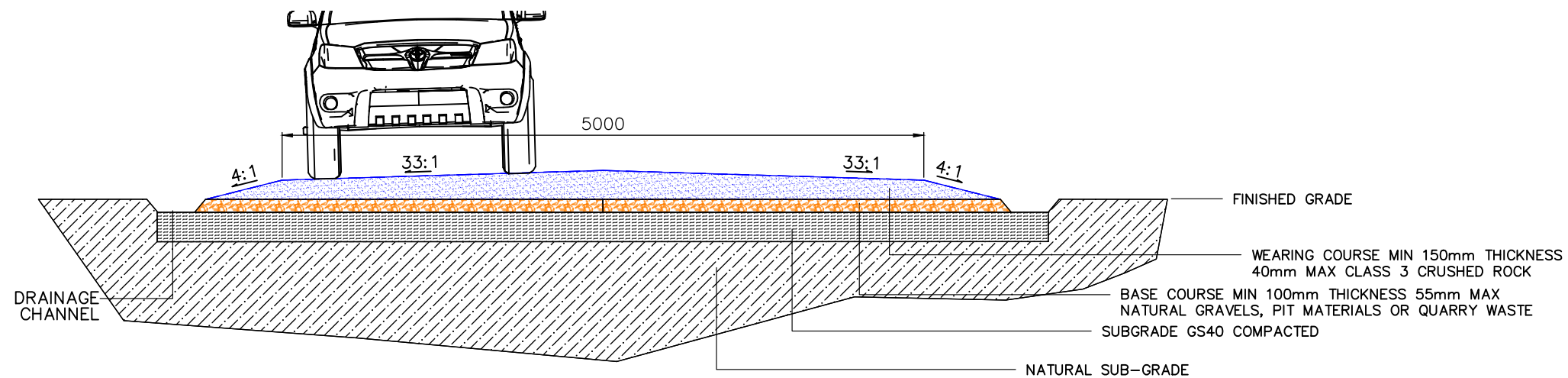
	TITLE
E	PROVIDENCE ASSET GROUP
	PINE RIDGE SOLAR FARM
T	SHED DETAIL
	TYPICAL

SCALE	AS SHOWN
REVISION	A
PAPER SIZE	A3

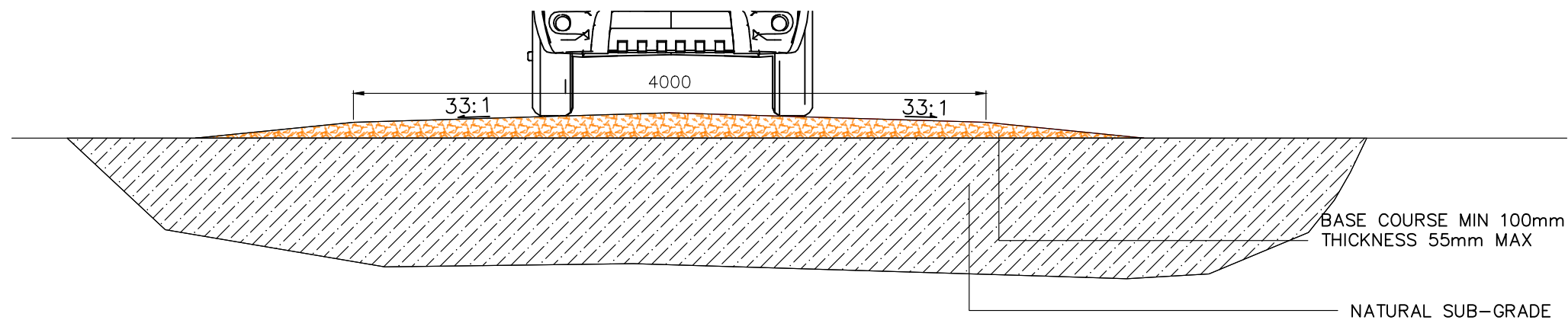


GENERAL NOTES

- 1. DETAILS SHOWN ARE PRELIMINARY, PAVEMENT DESIGN SUBJECT TO FINAL TRAFFICABILITY ASSESSMENT.
- 2. TRAFFIC LANE TYPICAL WIDTHS OF 4m TO 5m AS SHOWN. SECTIONS MAY BE WIDER THAN SHOWN TO ACCOMMODATE REQUIRED VEHICLE TURNING CIRCLES.
- 3. ALL ROADS TO HAVE ADEQUATE CROSS FALL FROM CENTER AND SHALL MAINTAIN MINIMUM LAYER THICKNESSES PER THE PAVEMENT DESIGNS.
- 4. ACCESS ROAD SHALL BE RAISED MINIMUM 150mm ABOVE EXISTING GROUND LEVEL.



1 SITE ACCESS ROAD SECTION



2 PV ARRAY ACCESS ROAD SECTION



REFERENCES									
	10190-C-DET-01-1	CIVIL DETAIL							
REVISIONS	A	2021.02.15	FIRST ISSUE	JM	JM	SS	JM		
	REV.	DATE	DESCRIPTION	DRWN.	DESIGNED	CHKD.	APPR.		

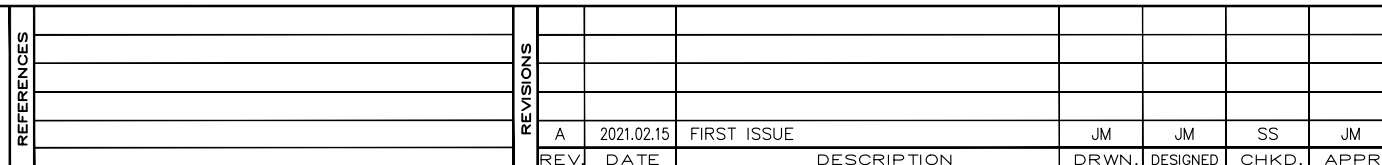
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TITLE	PROVIDENCE ASSET GROUP PINE RIDGE SOLAR FARM ROAD SECTION DETAIL TYPICAL
DWG No.	10190-C-DET-06-1

SCALE	AS SHOWN
REVISION	A
PAPER SIZE	A3



1. NB DETAIL PRESENTED IS PARALLEL PROJECTION. PV TRACKERS WILL BE 1-MODULE-IN PORTRAIT SINGLE AXIS TRACKING TYPE, AND WILL BE POSITIONED SUFFICIENTLY FAR FROM THE FENCELINE AS TO APPEAR SMALLER THAN AS SHOWN.
2. PRELIMINARY EQUIPMENT SELECTION:  
PV MODULE: LONGI LR5-72HPH-540M  
TRACKING SYSTEM: NEXTRACKER NX HORIZON  
DETAIL PRESENTED IS BASED UPON EQUIPMENT SELECTION, MAY CHANGE DURING DETAILED DESIGN.
3. GROUND LEVEL SIMPLIFIED TO CONSTANT ELEVATION, GROUND LEVEL VARIES ACROSS SITE.
4. REFER TO 10190-C-DET-02-1 FOR FENCING DETAIL.
5. LANDSCAPING EXTERNAL TO FENCE NOT SHOWN.



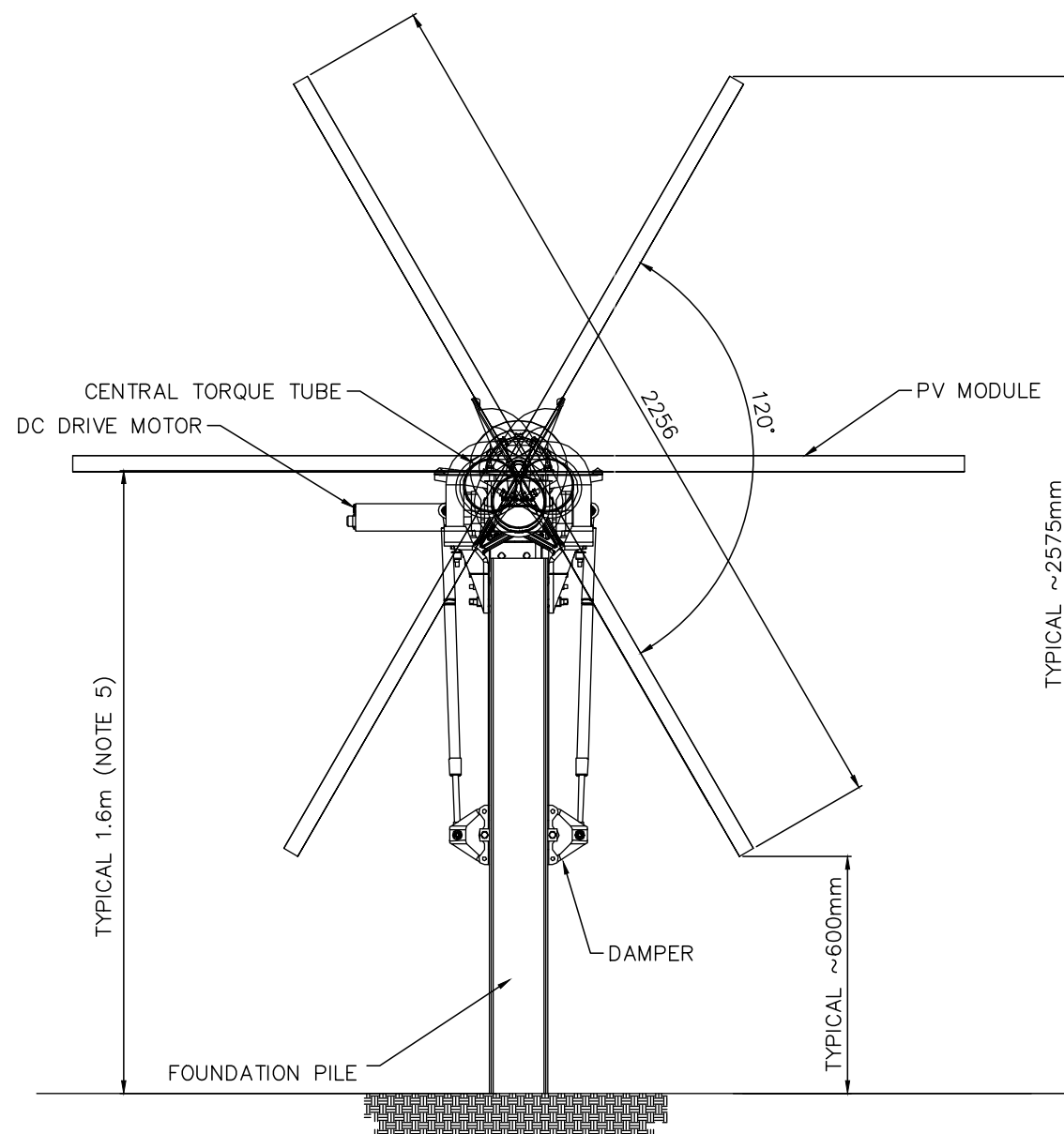
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TITLE
PROVIDENCE ASSET GROUP
PINE RIDGE SOLAR FARM
SITE ELEVATION DETAIL

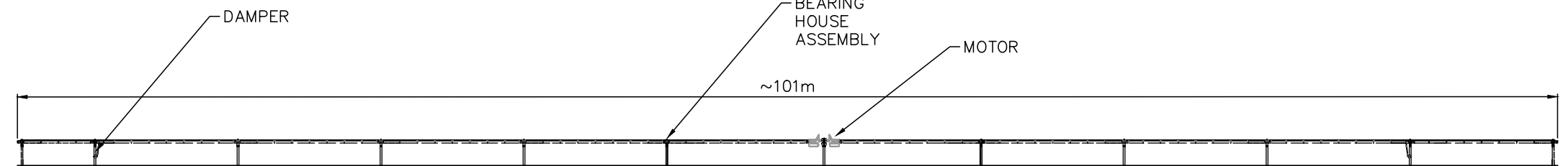
DWG No. 10190-G-DET-01-1

SCALE
DNS
REVISION
A
PAPER SIZE
A3





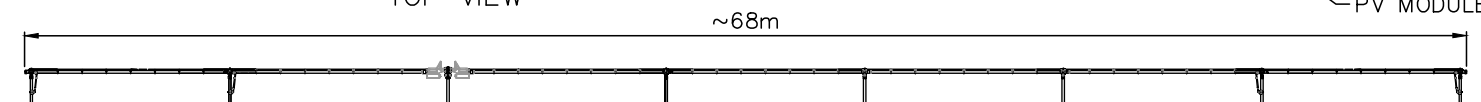
SECTION DETAIL



TYPICAL 3 STRING TRACKER ROW  
SIDE VIEW



TYPICAL 3 STRING TRACKER ROW  
TOP VIEW



TYPICAL 2 STRING TRACKER ROW  
SIDE VIEW



TYPICAL 2 STRING TRACKER ROW  
TOP VIEW

## GENERAL NOTES

1. NEXTRACKER NX HORIZON INDEPENDENT SINGLE AXIS TRACKING SYSTEM SHOWN. TRACKING SYSTEM AND DIMENSIONS MAY CHANGE DURING DETAILED DESIGN.
2. SYSTEM FOLLOWS THE SUN POSITION TO MAXIMISE GENERATION DURING SOLAR HOURS (VIA ASTRONOMICAL ALGORITHM).
3. DIMENSIONS AND CONSTRUCTION PRESENTED ARE PRELIMINARY; FINAL DESIGN WILL DIFFER IN TRACKER FRAME LENGTH (NUMBER OF INSTALLED PV MODULES PER FRAME).
4. TRACKING SYSTEM CONSISTS OF SUPPORT FRAME INSTALLED ON MULTIPLE DRIVEN PILE (STEEL SECTION) FOUNDATIONS. EACH FRAME IS DRIVEN BY A SINGLE DC DRIVE MOTOR AND CONTROLLED BY TRACKER CONTROLLER AND NETWORK CONTROL UNIT.
5. TYPICAL HEIGHT FROM AGL TO AXIS OF ROTATION VARIES WITH GROUND UNDULATION & REQUIRED HEIGHT ABOVE FLOOD LEVEL (IF APPLICABLE) TYPICAL CLEARANCES OF 600mm EXPECTED BETWEEN GROUND LEVEL & BOTTOM EDGE OF PV MODULE AT MAXIMUM TILT.
6. TYPICAL DISTANCE BETWEEN PILES IS BETWEEN 7 TO 10m DEPENDING ON DESIGN CONDITION, AND WHETHER ROW (TABLE) IS INTERIOR OR EXTERIOR TYPE.

REFERENCES	

REVISIONS							
A	2021.02.15	FIRST ISSUE	JM	JM	SS	JM	
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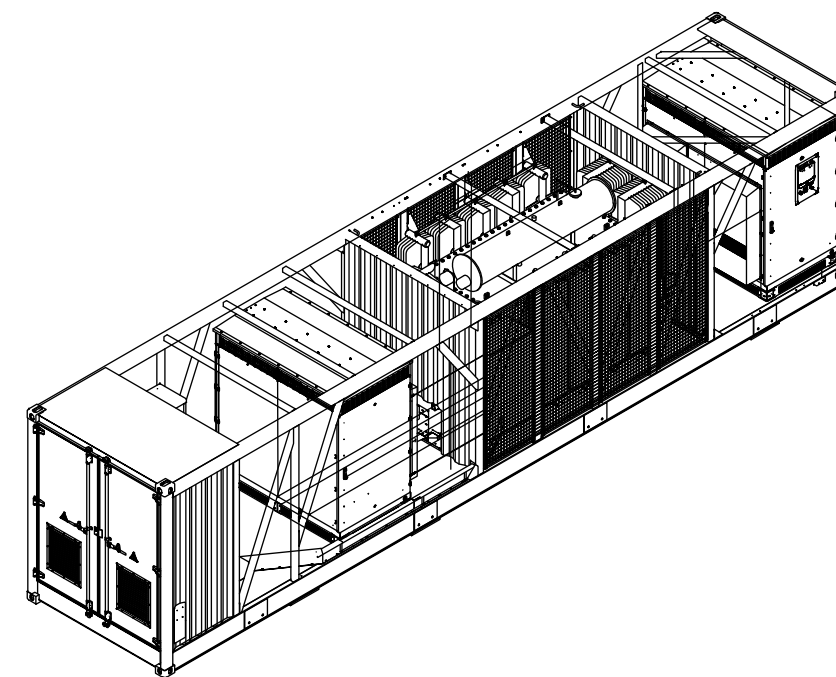
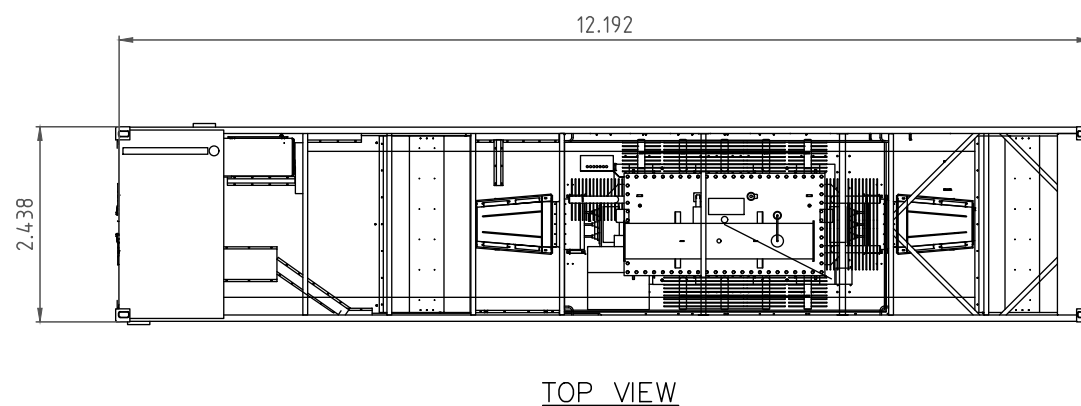
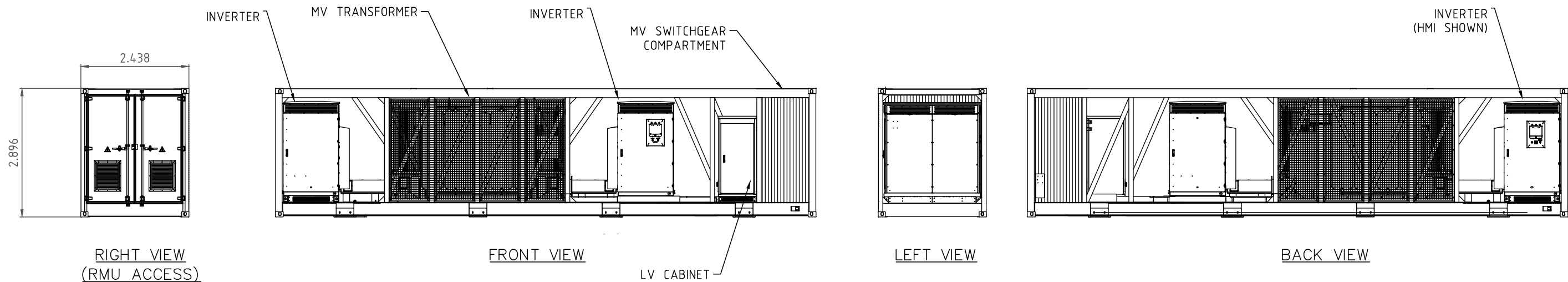
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TITLE  
PROVIDENCE ASSET GROUP  
PINE RIDGE SOLAR FARM  
PV MOUNTING SYSTEM DETAIL

DWG No. 10190-E-DET-01-1

SCALE  
AS SHOWN  
REVISION  
A  
PAPER SIZE  
A3





## GENERAL NOTES

1. POWER CONVERSION STATION (PCS) CONSISTS OF CENTRAL PV INVERTERS, MV TRANSFORMER, MV SWITCHGEAR AND AUXILIARY PLANT. PCS IS CONTAINERISED AND RAISED ABOVE GROUND LEVEL ON CONCRETE OR DRIVEN STEEL PILE FOOTINGS.
2. TYPICAL PILE FOOTINGS WITH SURROUND OF COMPACTED EARTH WITH ~100MM BLUE METAL TOP LAYER.
3. PCU SHOWN IS THE SUNGROW SG4950HV-MV MEDIUM VOLTAGE POWER STATION SYSTEM. THE PCS MAKE AND MANUFACTURER MAY BE SUBJECT TO CHANGE.

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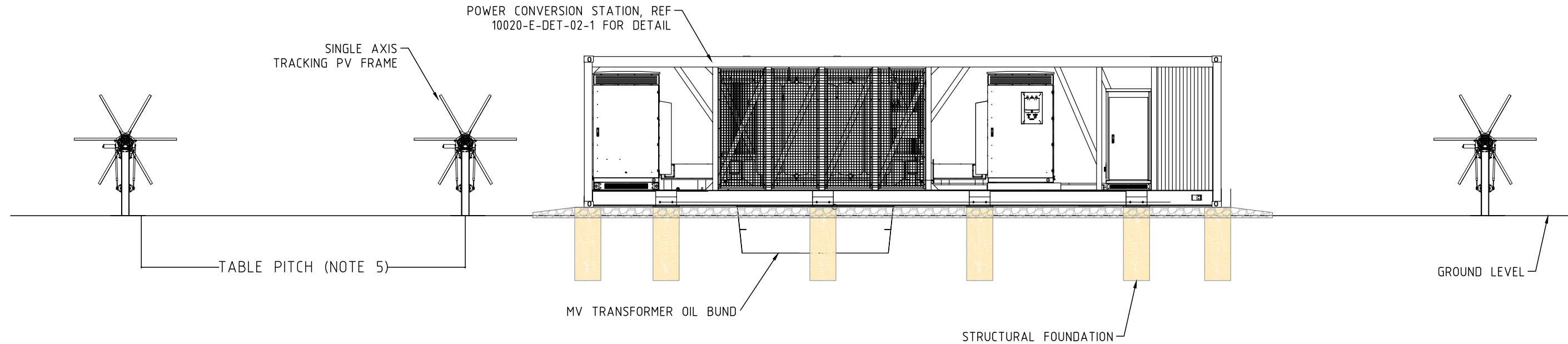
TITLE  
PROVIDENCE ASSET GROUP  
PINE RIDGE SOLAR FARM  
POWER CONVERSION STATION DETAIL  
SHEET 1  
DWG No. 10190-E-DET-02-1

SCALE  
DNS  
REVISION  
A  
PAPER SIZE  
A3



GENERAL NOTES

- 1. TYPICAL INSTALLATION DETAIL SHOWN, MAY CHANGE DURING DETAILED DESIGN.
- 2. TYPICAL INSTALLATION SHOWN; PCS RAISED ABOVE GROUND LEVEL ON CONCRETE/STRUCTURAL PILE FOUNDATIONS, WITH BLUE METAL SURROUND. FOR LOW LYING AREAS SKID REQUIRES RAISING ABOVE FLOOD LEVEL BY COMPACTED EARTH MOUND. TYPICAL 1:3 BATTER, WITH ONE SIDE MIN 1:6 FOR PEDESTRIAN ACCESS, SUBJECT TO FINAL DESIGN.
- 3. SINGLE AXIS TRACKER ASSEMBLY – FULL HEIGHT TYPICALLY 2.575m AGL, +/- 0.5m DEPENDING ON GROUND TOPOGRAPHY. TYPICALLY 1.6m AGL, +/- 0.5m WHEN IN FLAT POSITION.
- 4. MINIMUM CLEARANCE OF 600MM BETWEEN GROUND LEVEL AND PV MODULE EDGE AT MAXIMUM ROTATION TO BE MAINTAINED.
- 5. SINGLE AXIS TRACKING FRAME – TYPICAL TABLE PITCH OF 6.0 – 7.0m
- 6. COMBINER BOX TYPICALLY 1.5m +/- 0.5m HIGH.



REFERENCES	

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TITLE	PROVIDENCE ASSET GROUP
	PINE RIDGE SOLAR FARM
	POWER CONVERSION STATION DETAIL
	SHEET 2
DWG No.	10190-E-DET-02-2

SCALE	DNS
REVISION	A
PAPER SIZE	A3