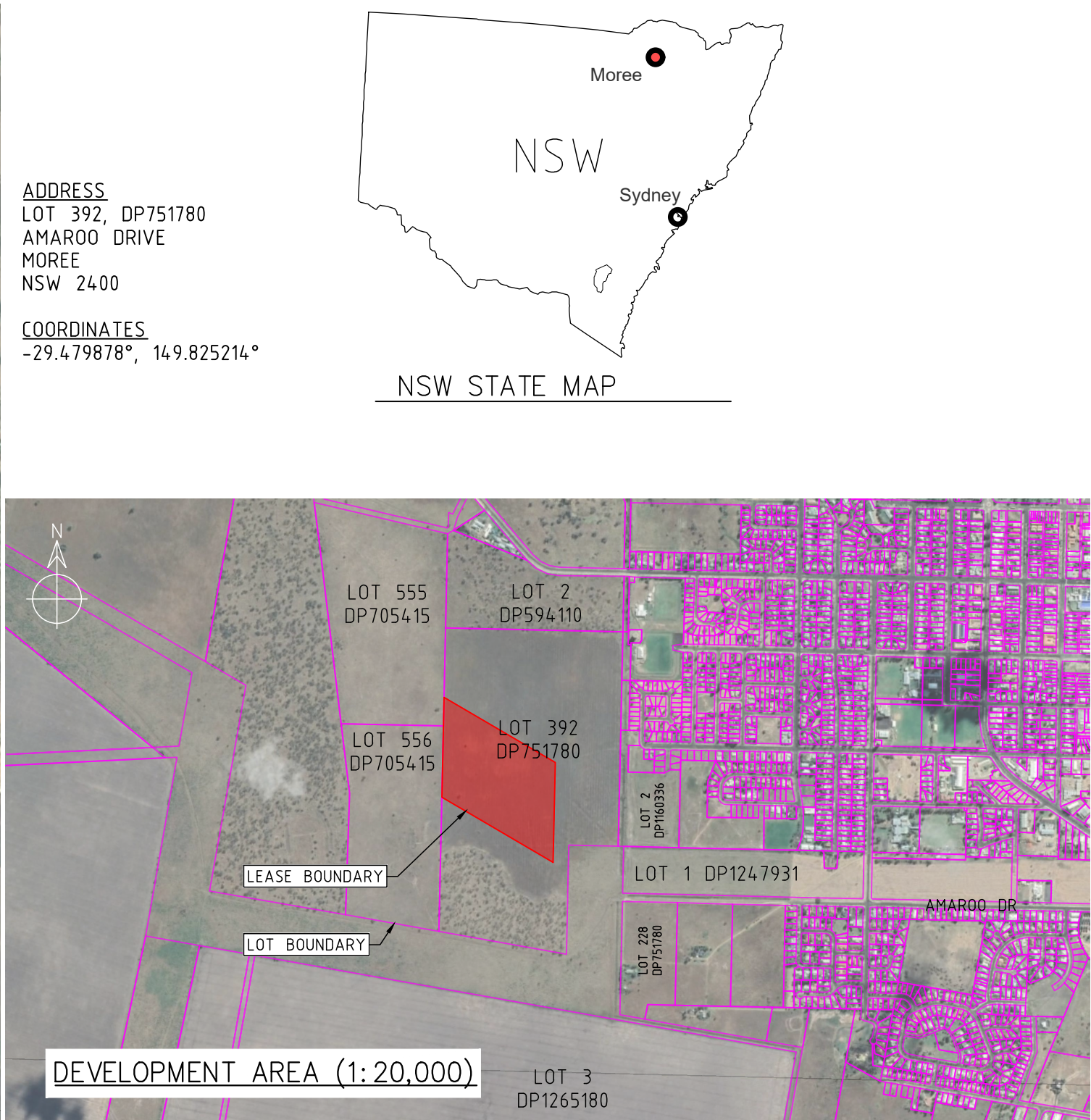




ADDRESS
LOT 392, DP751780
AMAROO DRIVE
MOREE
NSW 2400

COORDINATES
-29.479878°, 149.825214°



REFERENCES		REVISIONS					
B	2021.03.17	MINOR REVISIONS		JM	JM	SS	JM
A	2021.03.09	FIRST ISSUE		JM	JM	SS	JM
REV.	DATE	DESCRIPTION		DRWN.	DESIGNED	CHKD.	APPR.

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TITLE
PROVIDENCE ASSET GROUP
AMAROO SOLAR FARM
LOCATION DETAIL

DWG No. 10220-G-GAD-01-1

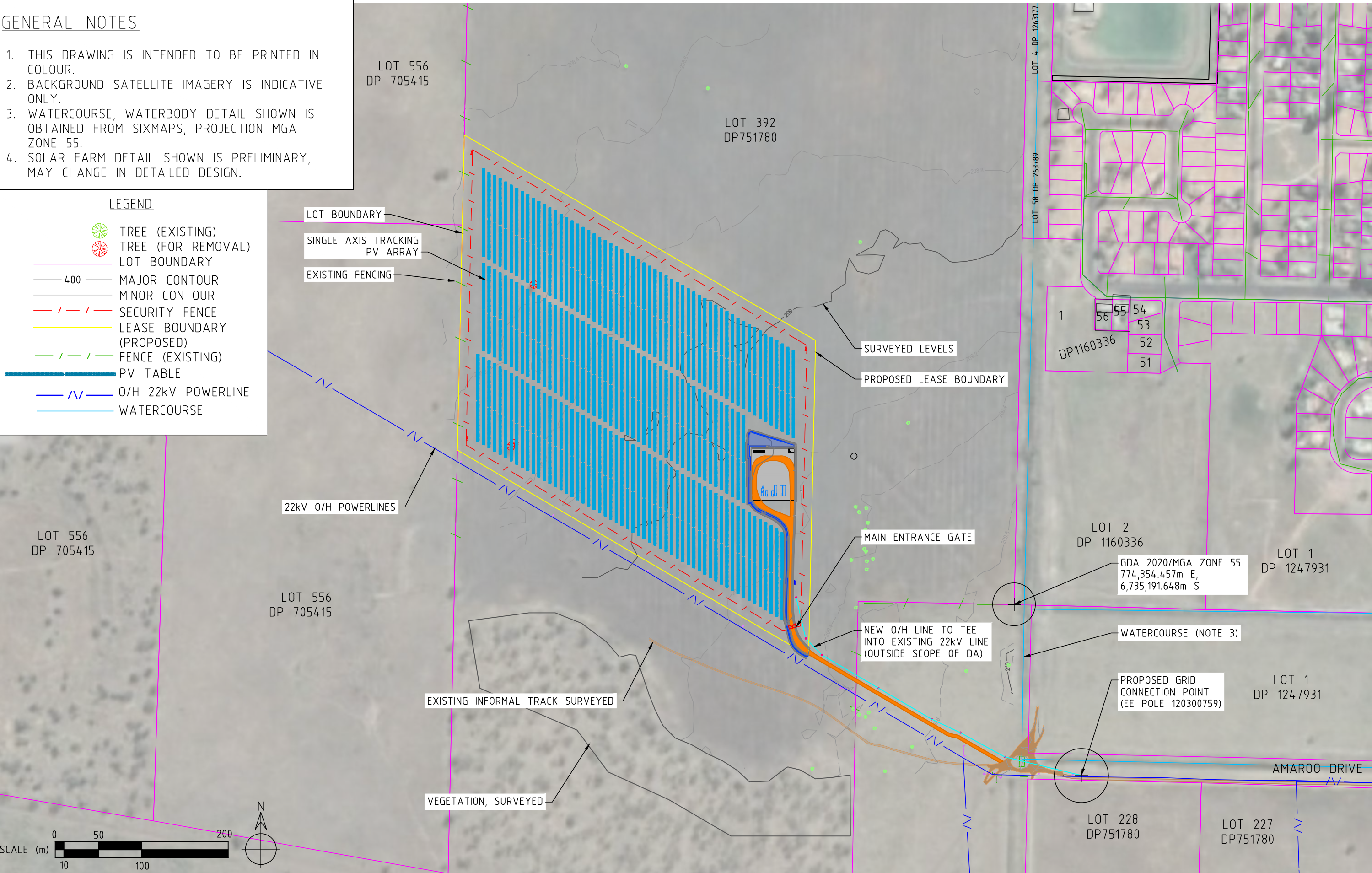
SCALE
AS SHOWN
REVISION
B
PAPER SIZE
A3

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.

LEGEND

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



REV		DATE	DESCRIPTION	DRWN.	DESIGNED	CHKD.	APPR.
REV	D	2020.04.30	MINOR CORRECTION	JM	JM	SS	JM
	C	2020.04.09	CIVIL DETAIL ADDED	JM	JM	SS	JM
	B	2020.03.17	REVISED LAYOUT	JM	JM	SS	JM
	A	2020.03.09	FIRST ISSUE	JM	JM	SS	JM

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TITLE		SCALE
PROVIDENCE ASSET GROUP		1:4000
AMAROO SOLAR FARM		REVISION
GENERAL ARRANGEMENT		D
OVERVIEW		PAPER SIZE
DWG No. 10220-G-GAD-02-1		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): 7.303 MWp
TOTAL INVERTER CAPACITY (AC): 4.95MVA
PV PLANT MAXIMUM EXPORT CAPACITY (AC): 4.95MW
DC:AC RATIO: 1.475
STRINGS OF 28 PV MODULES.
241/242 PV STRINGS PER INVERTER.
483 PV STRINGS TOTAL.

PV MODULES:
MFR: LONGI SOLAR
MODEL: LR5-72HPH-540M
NAMEPLATE: 540Wp
QUANTITY: 13,524 MODULES

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

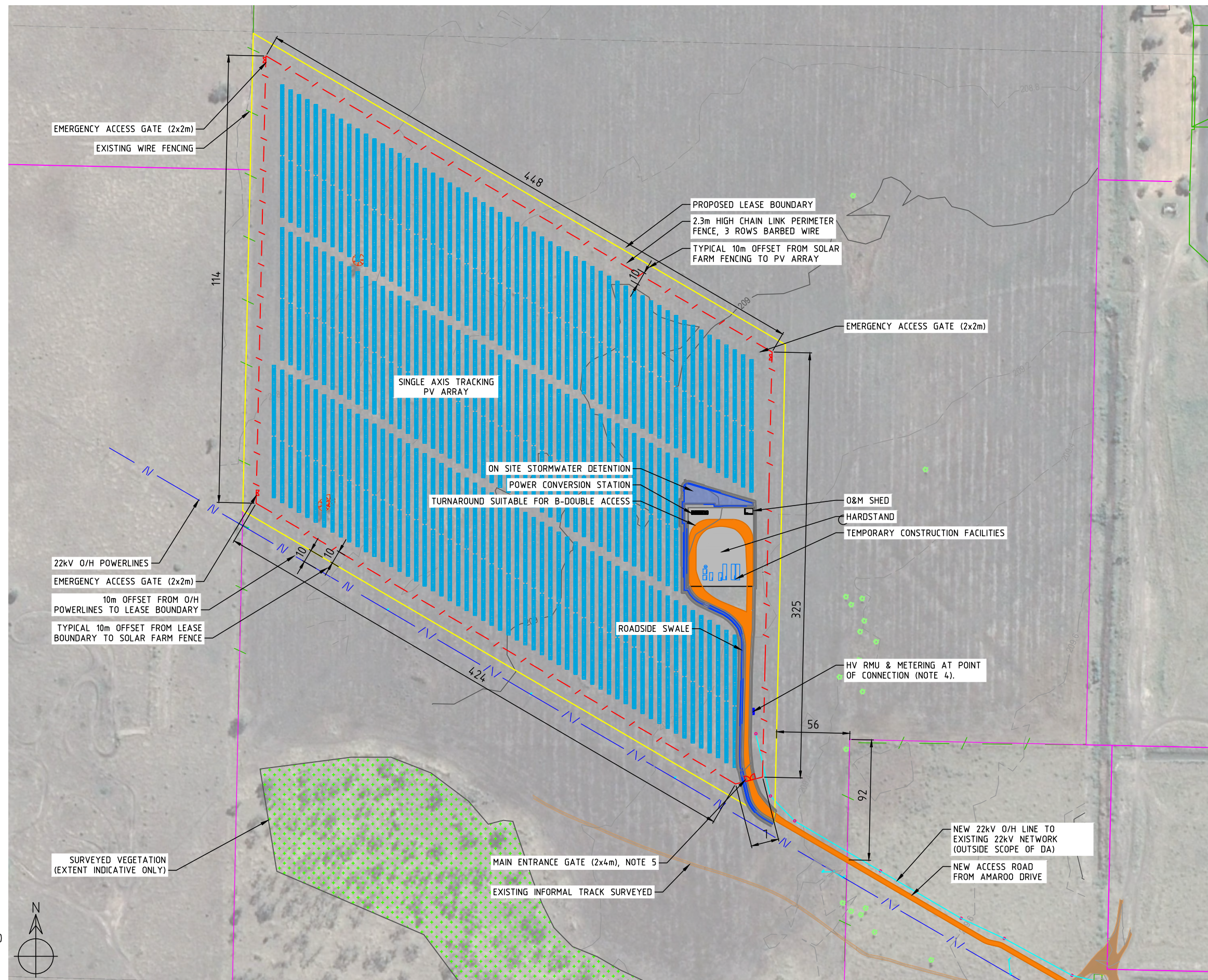
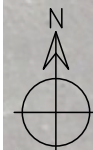
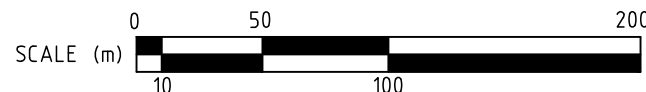
MV POWER STATION:
MFR: SUNGROW
MODEL: SG4950HV-MV
QUANTITY: 1

TRACKER ARRAY:
TYPE: GROUND MOUNT SINGLE AXIS TRACKING
CONFIGURATION: INDEPENDENT TYPE
RANGE OF MOTION: $\pm 60^\circ$
PITCH: 6.4m
GCR: 35.25%
QUANTITY: 161 TABLES

FENCED AREA: 133,432 m²
LEASE AREA: 149,998 m²

GENERAL NOTES:

- SITE ACCESS VIA NEW ACCESS ROAD FROM AMAROO DRIVE.
- 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 10220-C-DET-02-1.
- WATERCOURSE, WATERBODY DETAIL FROM SIXMAPS, MGA ZONE 55 PROJECTION.
- REFER TO CIVIL DETAIL DRAWING 10220-C-DET-01-1.



REVISED LAYOUT

REV	DATE	DESCRIPTION	DRWN.	DESIGNED	CHKD.	APPR.
D	2020.04.28	MINOR CORRECTIONS	JM	JM	SS	JM
C	2020.04.09	CIVIL DETAIL ADDED	JM	JM	SS	JM
B	2021.03.17	REVISED LAYOUT	JM	JM	SS	JM
A	2021.03.09	FIRST ISSUE	JM	JM	SS	JM

MINOR CORRECTIONS

CIVIL DETAIL ADDED

REVISED LAYOUT

FIRST ISSUE

MINOR CORRECTIONS

CIVIL DETAIL ADDED

REVISED LAYOUT

FIRST ISSUE

MINOR CORRECTIONS

CIVIL DETAIL ADDED

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CIVIL DETAIL ADDED

REVISED LAYOUT

FIRST ISSUE

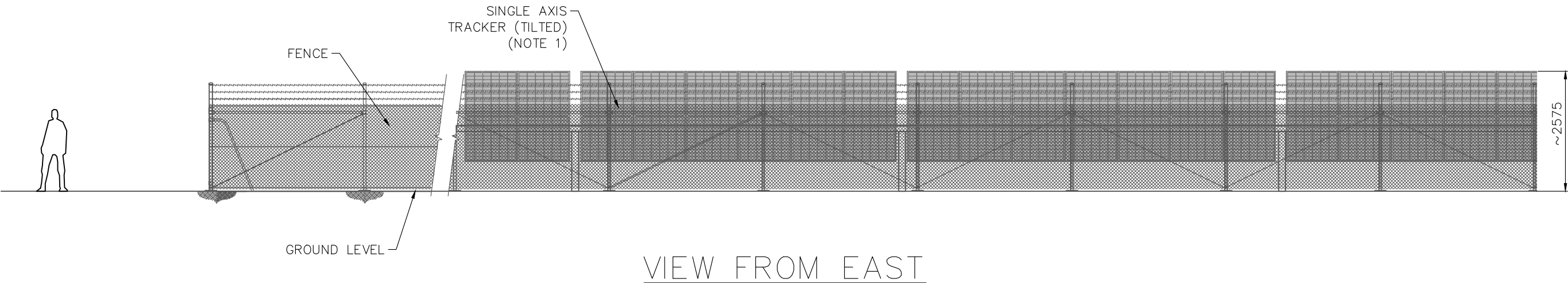
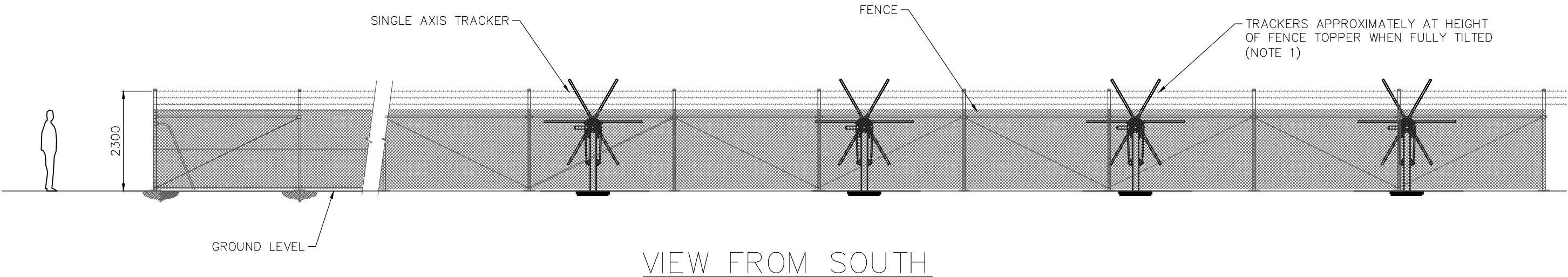
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TITLE
PROVIDENCE ASSET GROUP
AMAROO SOLAR FARM
GENERAL ARRANGEMENT
SYSTEM DETAIL
DWG No. 10220-G-GAD-02-2

SCALE
1:3000
REVISION
D
PAPER SIZE
A3

GENERAL NOTES

- 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 10220-C-DET-02-1 FOR FENCING DETAIL.
- 5. LANDSCAPING EXTERNAL TO FENCE NOT SHOWN.



REFERENCES		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
AMAROO SOLAR FARM
SITE ELEVATION DETAIL

DWG No. 10220-G-DET-01-1

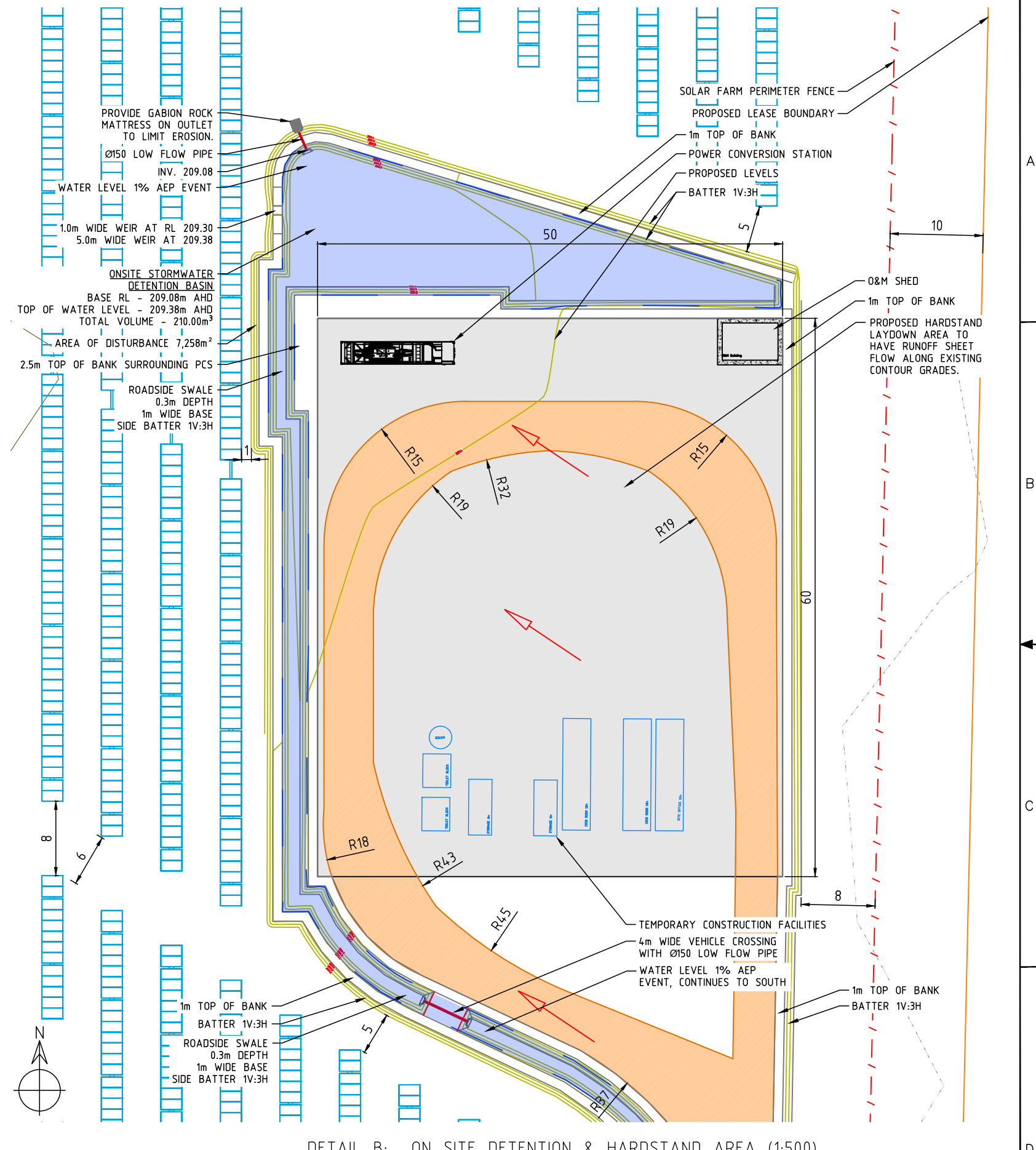
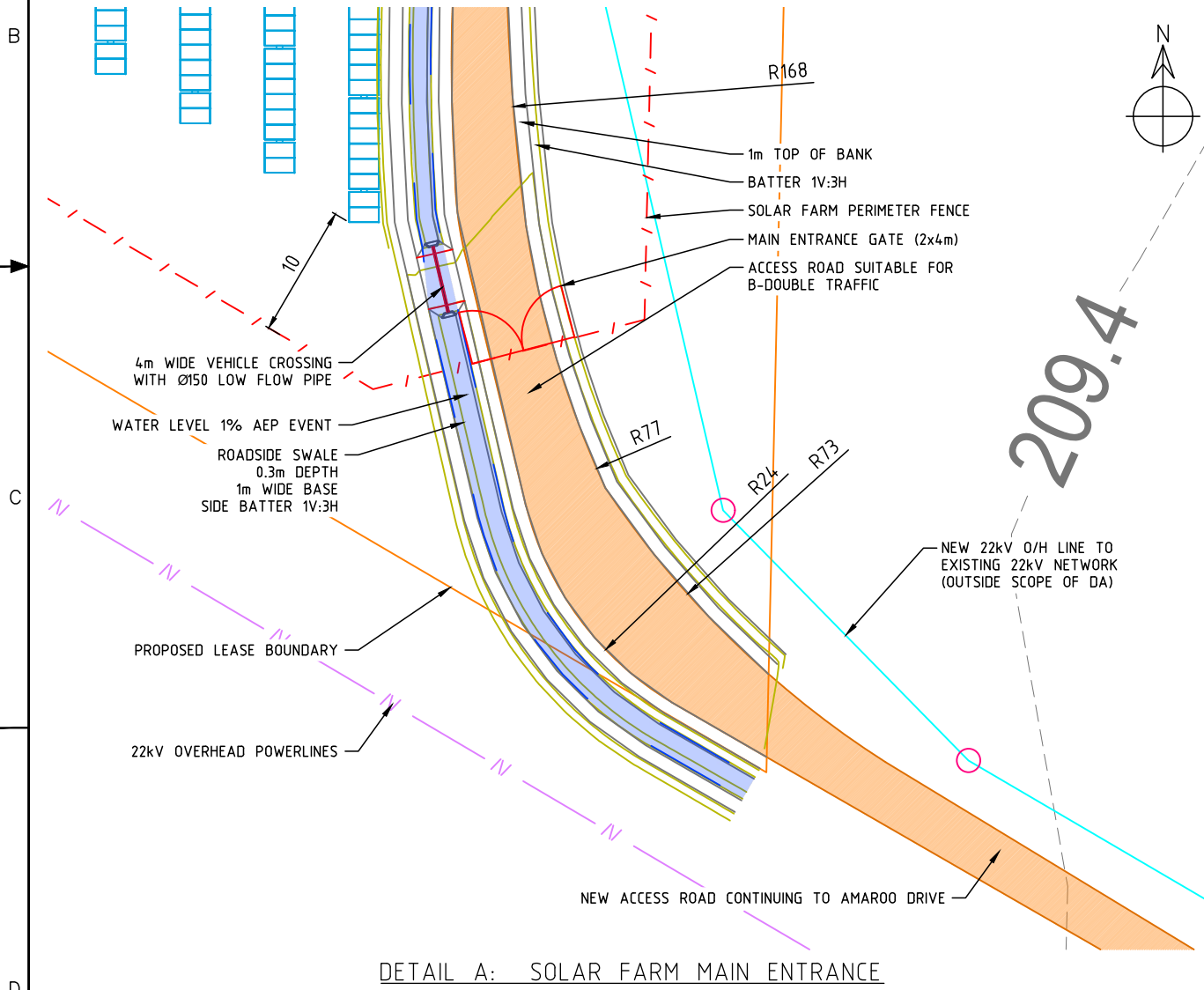
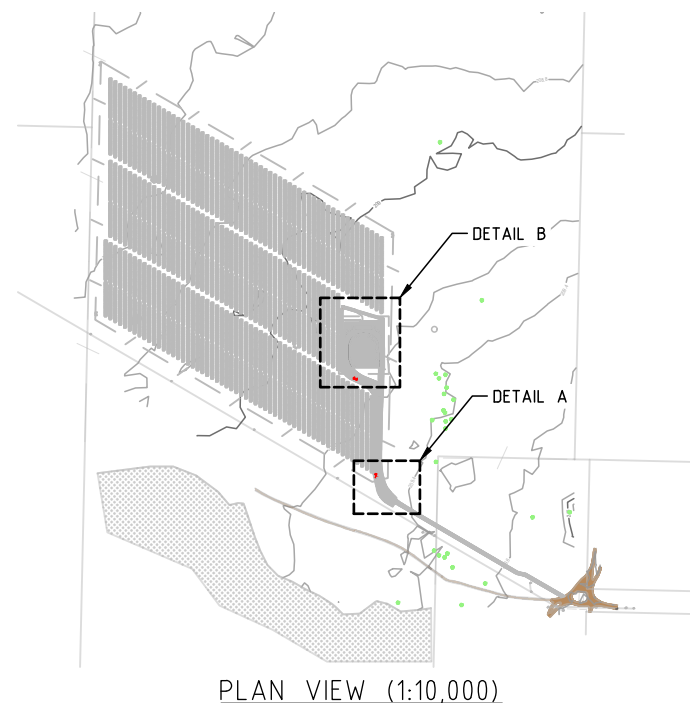
SCALE DNS
REVISION A
PAPER SIZE A3

GENERAL NOTES

1. PRELIMINARY DETAIL SHOWN, MAY CHANGE IN DETAILED DESIGN.
2. ACCESS ROAD FROM AMAROO DRIVE TO BE TRAFFICABLE FOR B-DOUBLES.
3. REFER TO 10220-C-DET-02-1 FOR PRELIMINARY ROAD SECTIONAL DETAIL.
4. REFER TO DETAIL VIEWS FOR PRELIMINARY ON SITE STORMWATER DETENTION DETAIL.

LEGEND

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



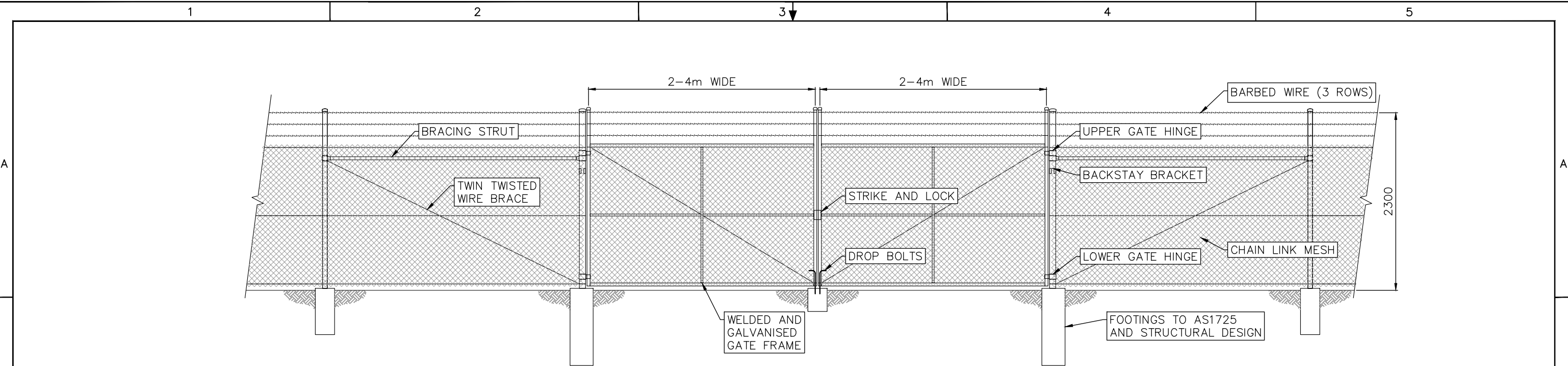
REFERENCES		REVISIONS					
A	2021.04.07	FIRST ISSUE		JM	JM	SS	JM
REV	DATE	DESCRIPTION	DRWN.	DESIGNED	CHKD.	APPR.	

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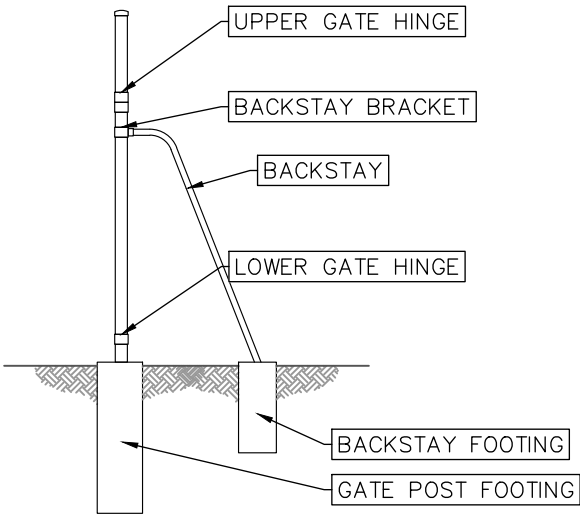
TITLE
PROVIDENCE ASSET GROUP
AMAROO SOLAR FARM
CIVIL DETAIL

DWG No. 10220-C-DET-01-1

SCALE
AS SHOWN
REVISION
A
PAPER SIZE
A3



TYPICAL FENCE & GATE ELEVATION



TYPICAL BACKSTAY ELEVATION

GENERAL NOTES

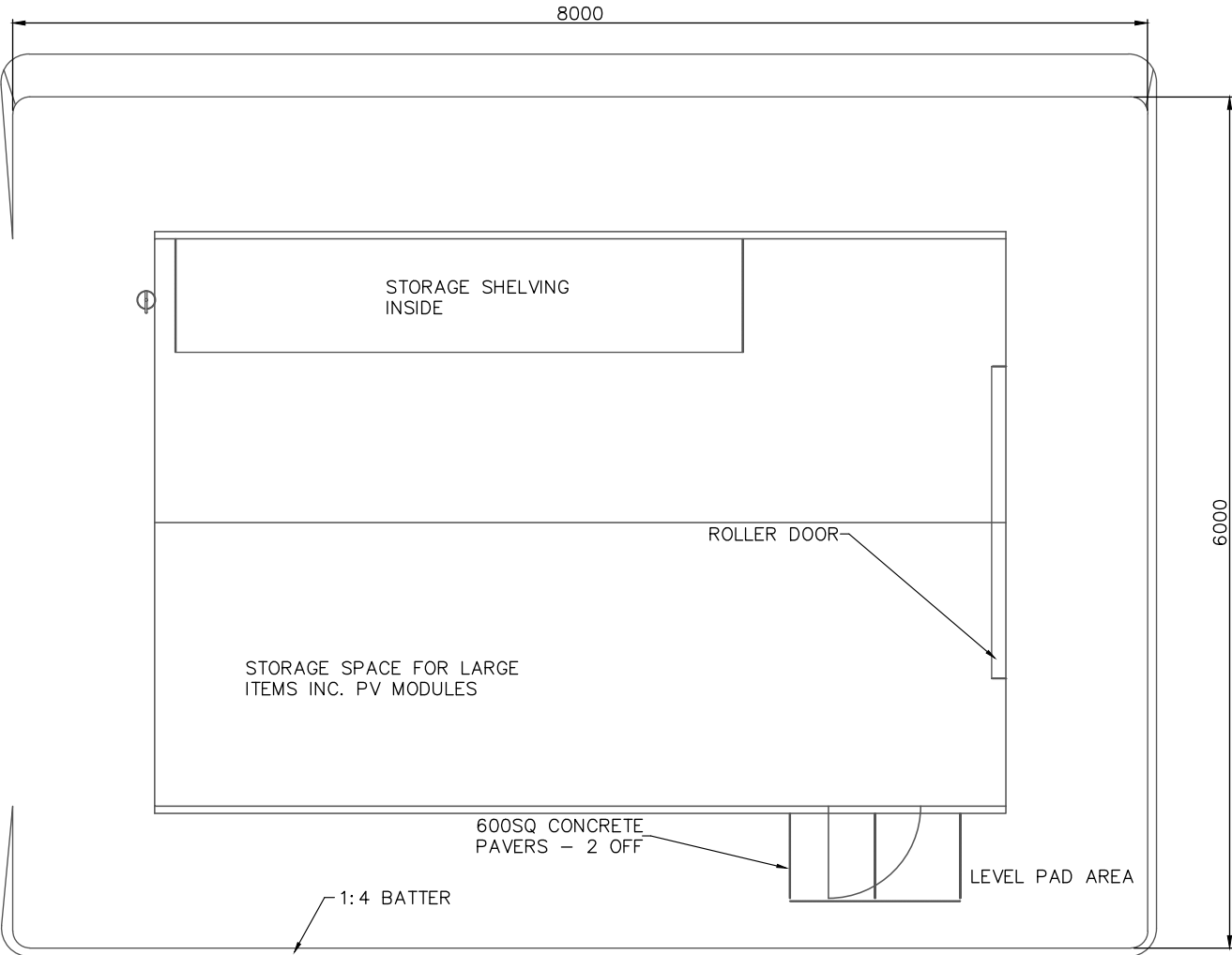
1. SOLAR FARM PERIMETER FENCE TO BE GALVANISED CHAIN LINK MESH FENCE WITH 3 ROWS BARBED WIRE.
2. NOMINAL MESH HEIGHT TO BE 1800mm.
3. NOMINAL OVERALL HEIGHT TO BE 2300mm +/- 100mm.
4. ALL FENCING COMPONENTS AND FOOTINGS TO COMPLY WITH AS 1725.
5. GATE WIDTH AS PER GA LAYOUT DRAWINGS.
6. BRACING STRUT 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 PROXIMITY TO ELECTRICAL COMPONENTS OR AS REQUIRED WITHIN UTILITY EASEMENTS OR SIMILAR. TO BE DETERMINED DURING DETAILED DESIGN.

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

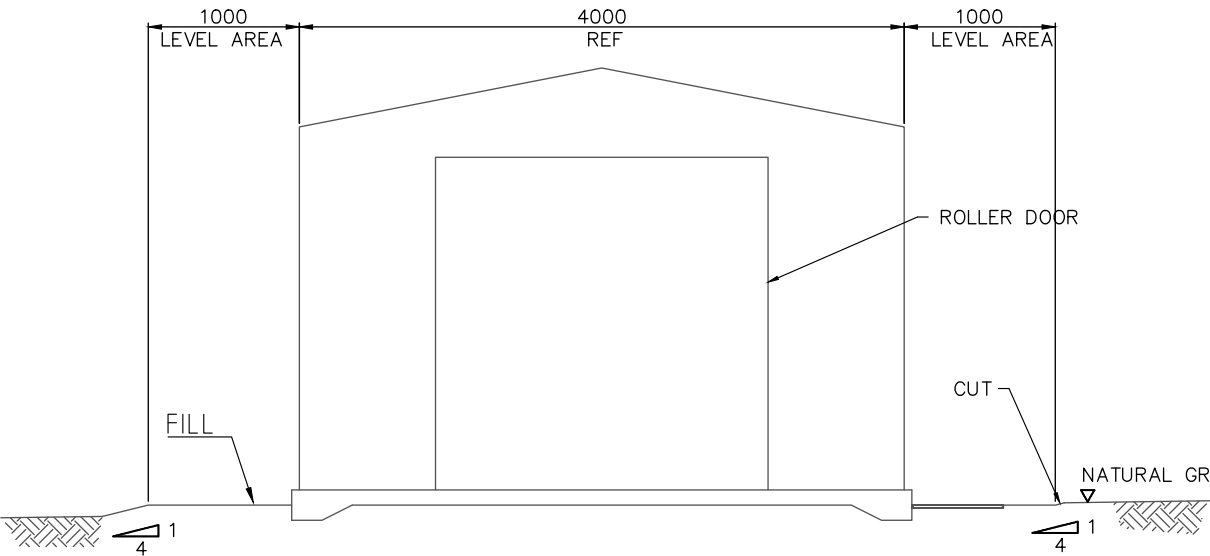
TITLE	SCALE
PROVIDENCE ASSET GROUP	DNS
AMAROO SOLAR FARM	REVISION
SECURITY FENCE DETAIL	A
TYPICAL	PAPER SIZE
DWG No. 10220-C-DET-02-1	A3

GENERAL NOTES:

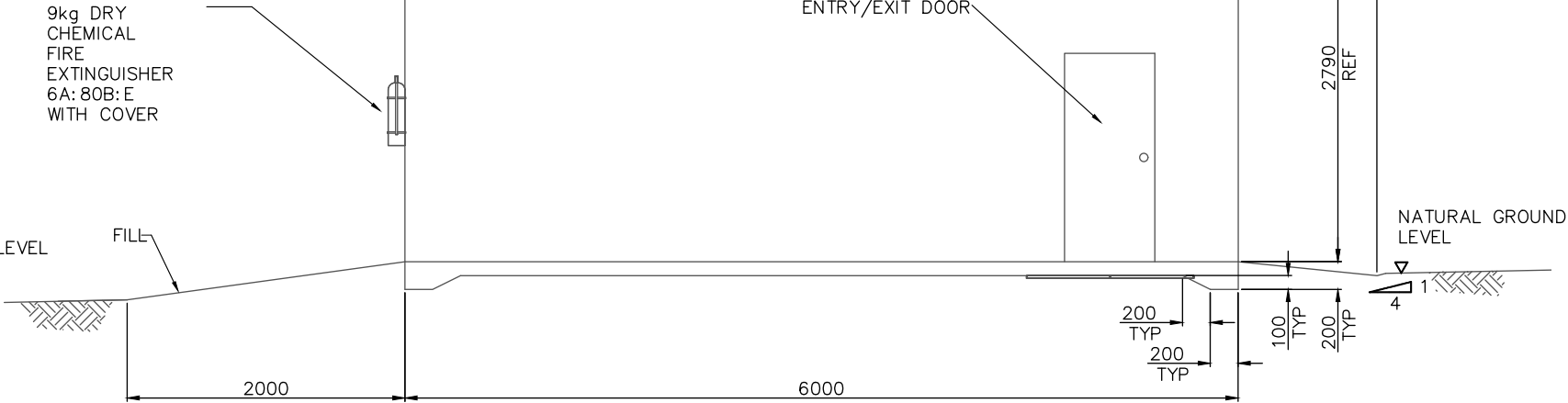
1. DIMENSIONS ARE SHOWN IN MILLIMETERS (mm)
2. SHED DESIGNED AND SUPPLIED BY (TBC).
3. WIND REGION A1, IMPORTANCE LEVEL 2
4. COMPLIES WITH PART B1 OF BUILDING CODE OF AUSTRALIA



PLAN



SIDE ELEVATION



ELEVATION



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

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TITLE		SCALE
PROVIDENCE ASSET GROUP		AS SHOWN
AMAROO SOLAR FARM		REVISION
SHED DETAIL		A
TYPICAL		PAPER SIZE
DWG No. 10220-C-DET-05-1		A3