

Muskerry Solar Farm - Study Area

Legend

- | | |
|--|---|
| Study Area | LGA |
| Development Footprint | |
| Available Area for Solar Farm | Easement Option A |
| Substation Option a) | Easement Option B |
| Substation Option b) | Substation / Access Road |
| Easement | Entry track |
| Waterways | |
| Contour lines | |
| Roads | |

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PLAN**



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 © ESRI, accessed 2020
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 Ref: 19-941_Muskerry SF QGIS
 Biodiversity_23082022 \ Study Area
 Author: D. Bambrick
 Date created: 02.03.2023
 Datum: GDA94 / MGA zone 55



NGH

LEGEND

+ Sensitive receivers

+ Gate location

+ Site access location

+ Rainwater tank location

— Contours (mAHD)

— Existing transmission line

— 7.5m wide entry track

— 4.5m wide electrical easement and track

— 4.5m wide access tracks

— Site security fencing

— Existing electrical transmission easement

240m noise buffer to sensitive receivers

Vegetation for retention

Inverters and power conversion units

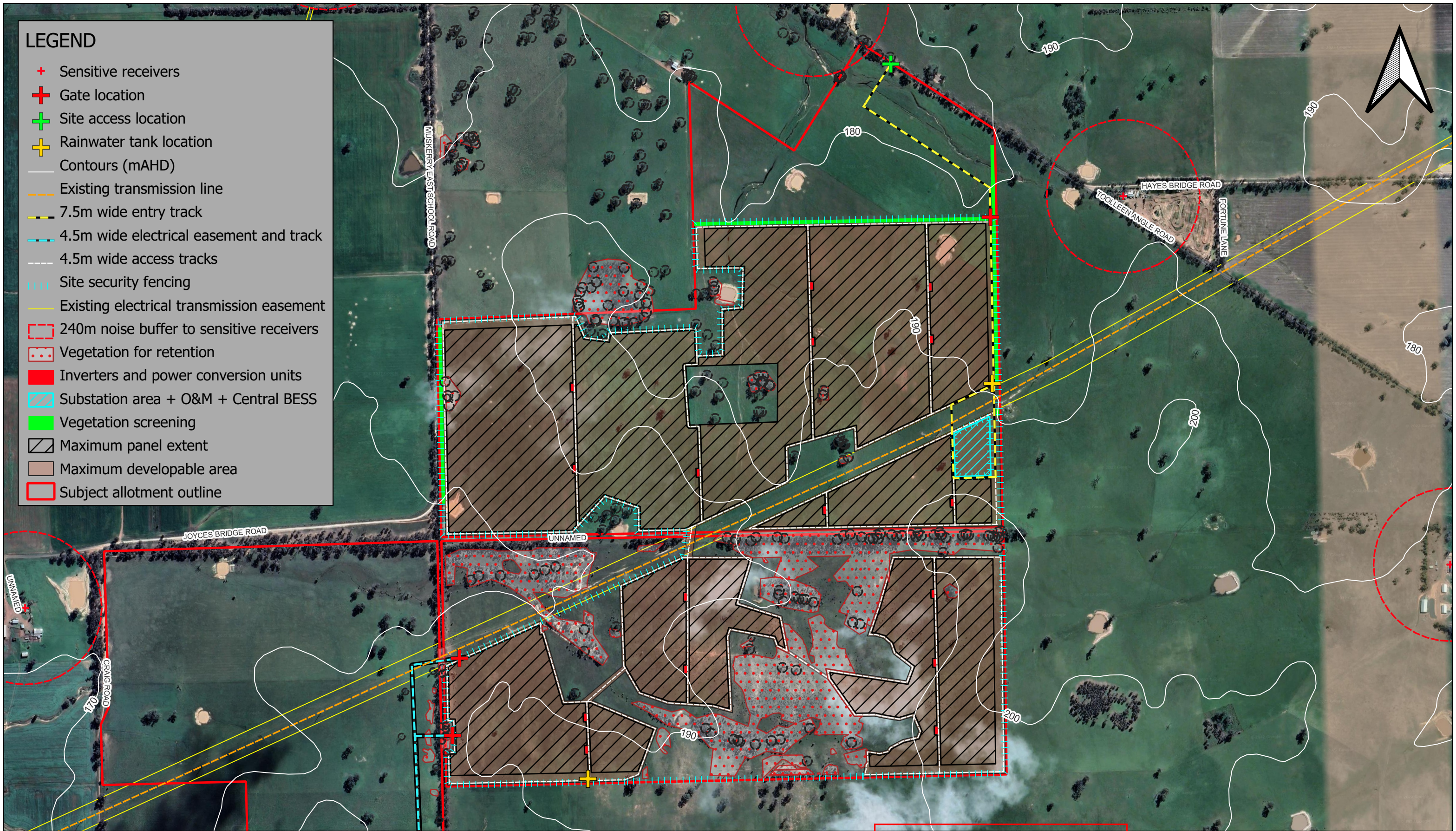
Substation area + O&M + Central BESS


Vegetation screening

Maximum panel extent

Maximum developable area

Subject allotment outline



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	FIGURE 1: DEVELOPMENT PLAN - NORTH		<div>ADVERTISED PLAN</div>
DOCUMENT: Edify Energy - Muskerry Solar Farm	<div> <div>05001,0001,5002,000 m</div> <div>1:11,000</div> </div>		Coordinate system: GDA2020 / MGA zone 55 EPSG:7855
DATE: 16/12/2022	AUTHOR: AF		

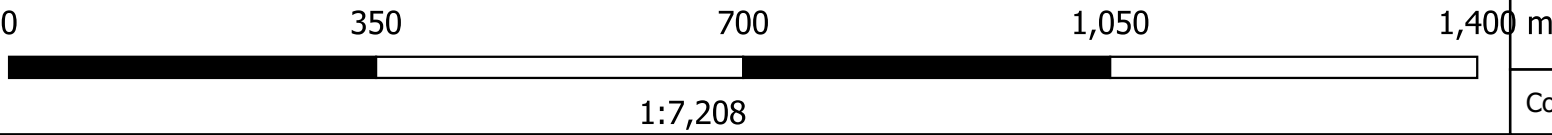


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FIGURE 4: DEVELOPMENT PLAN - ADJOINING EASEMENT

DOCUMENT: Edify Energy - Muskerry Solar Farm	
DATE: 16/12/2022	AUTHOR: AF



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Coordinate system: GDA2020 / MGA zone 55 EPSG:7855

LEGEND

+

 Sensitive receivers

+

 Gate location

+

 Rainwater tank location

—

 Contours (mAHD)

—

 4.5m wide electrical easement and track

—

 4.5m wide access tracks

—

 Site security fencing

—

 240m noise buffer to sensitive receivers

—

 325m noise buffer to sensitive receivers

•••

 Vegetation for retention

■

 Inverters and power conversion units

■

 Vegetation screening

▨

 Maximum panel extent

■

 Maximum developable area

▭

 Subject allotment outline



		<div>CLIENT: EDIFY ENERGY</div> <div>FIGURE 2: DEVELOPMENT PLAN - CENTRAL</div>	<div> This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright </div>	<div> Credits: © Commonwealth of Australia (Geoscience Australia) 2021. This product is released under the Creative Commons Attribution 4.0 International Licence. http://creativecommons.org/licenses/by/4.0/legalcode </div> <div>ADVERTISED PLAN</div>
<div>DOCUMENT: Edify Energy - Muskerry Solar Farm</div>		<div> 0 350 700 1,050 1,400 m </div> <div>1:8,000</div>	<div>Coordinate system: GDA2020 / MGA zone 55 EPSG:7855</div>	
<div>DATE: 16/12/2022</div>	<div>AUTHOR: AF</div>			

LEGEND

+

Sensitive receivers

+

Rainwater tank location

+

Emergency access point

+

Gate location

—

Contours (mAHD)

4.5m wide access tracks

Site security fencing

240m noise buffer to sensitive receivers

325m noise buffer to sensitive receivers

Vegetation for retention

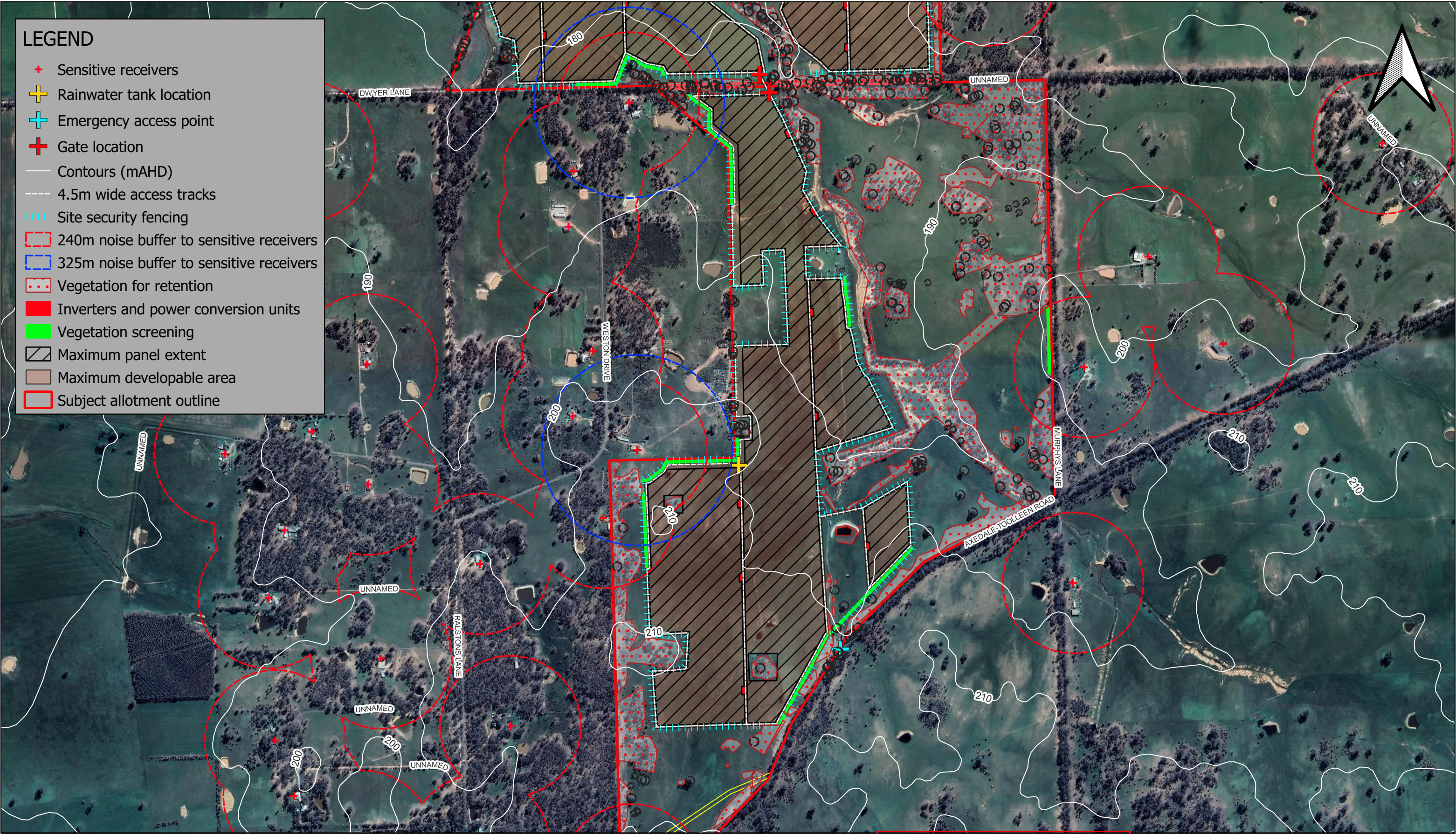
Inverters and power conversion units

Vegetation screening

Maximum panel extent

Maximum developable area

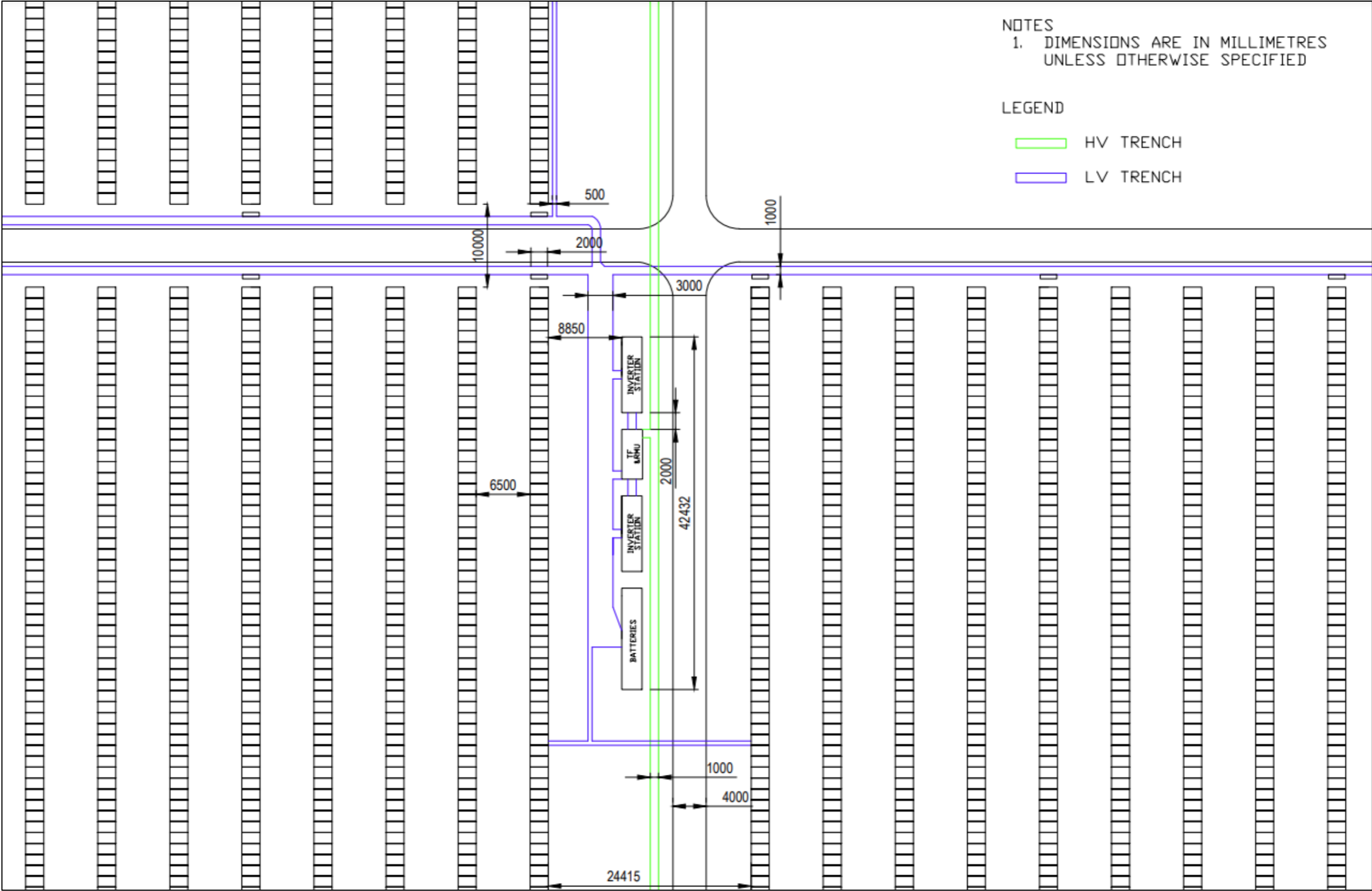
Subject allotment outline



<div><div><div></div><div></div><div></div><div></div></div><div><div>Terra</div><div>SOLUTIONS</div></div></div>	CLIENT: EDIFY ENERGY	<div><div>This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright</div></div>	<div>Credits: © Commonwealth of Australia (Geoscience Australia) 2021. This product is released under the Creative Commons Attribution 4.0 International Licence. http://creativecommons.org/licenses/by/4.0/legalcode</div> <div>ADVERTISED PLAN</div>
	FIGURE 3: DEVELOPMENT PLAN - SOUTH		
DOCUMENT: Edify Energy - Muskerry Solar Farm			
DATE: 16/12/2022	AUTHOR: AF	Coordinate system: GDA2020 / MGA zone 55 EPSG:7855	

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PLAN

CONCEPT LAYOUT
PLAN

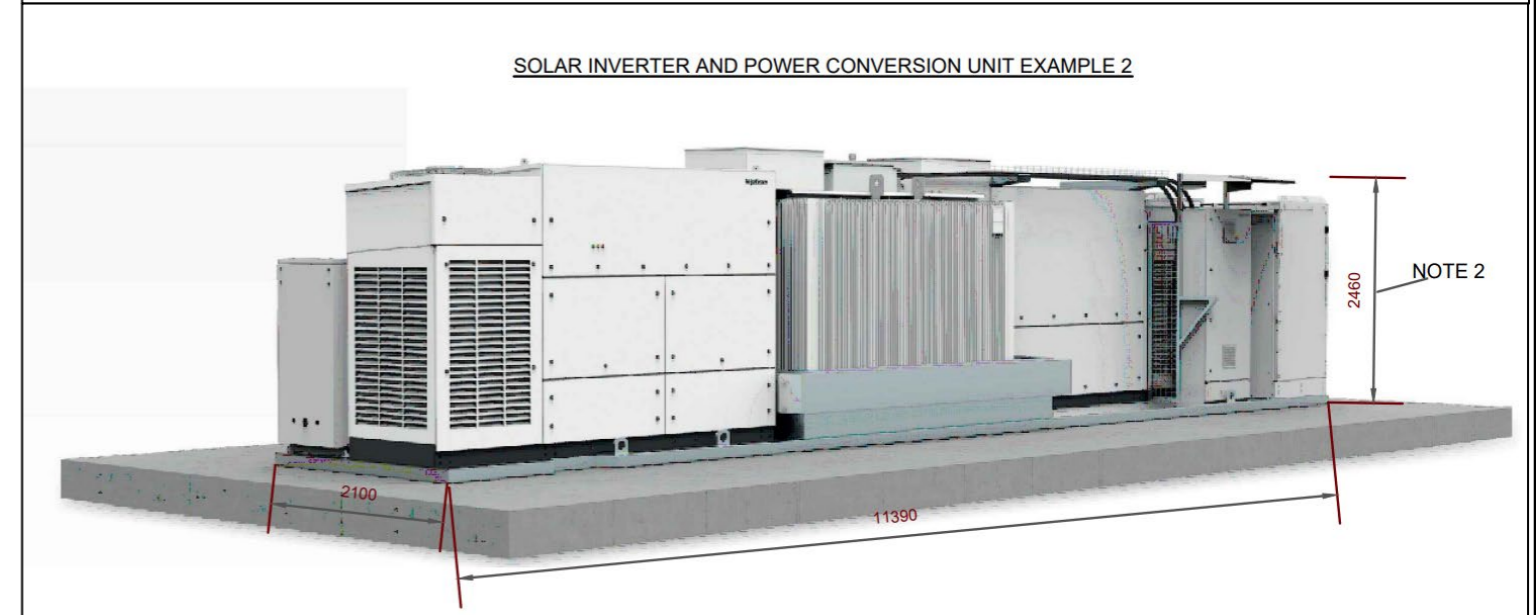
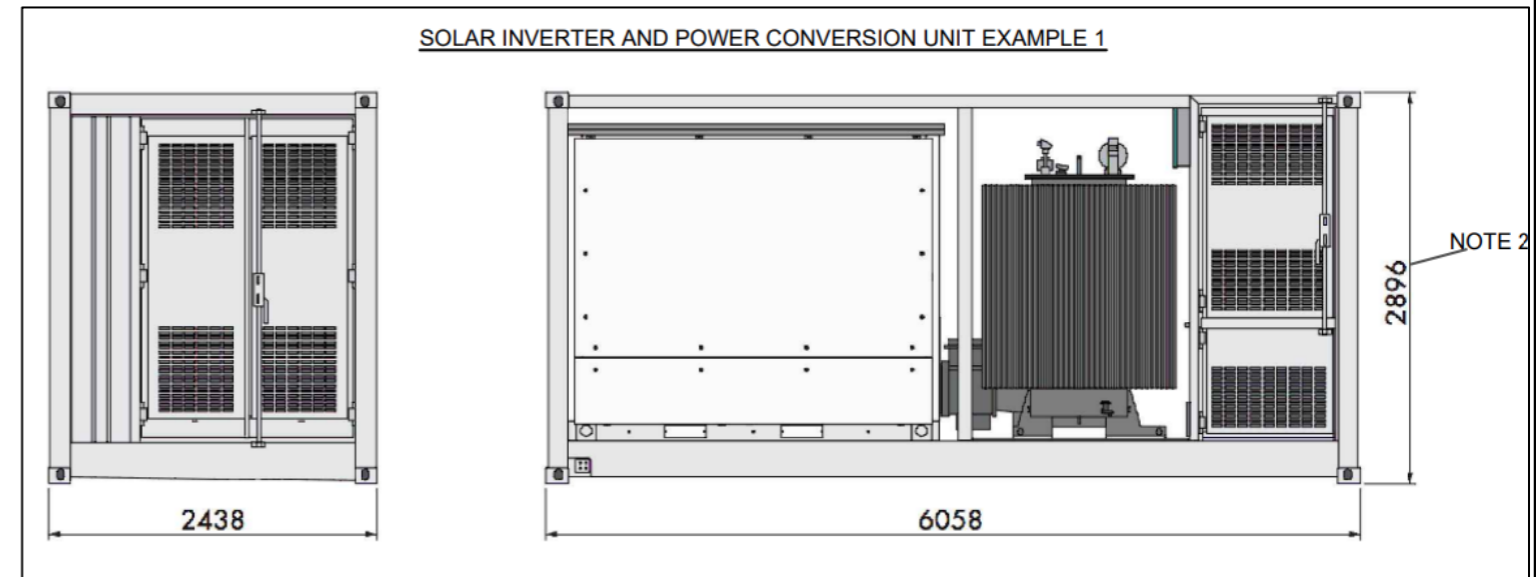
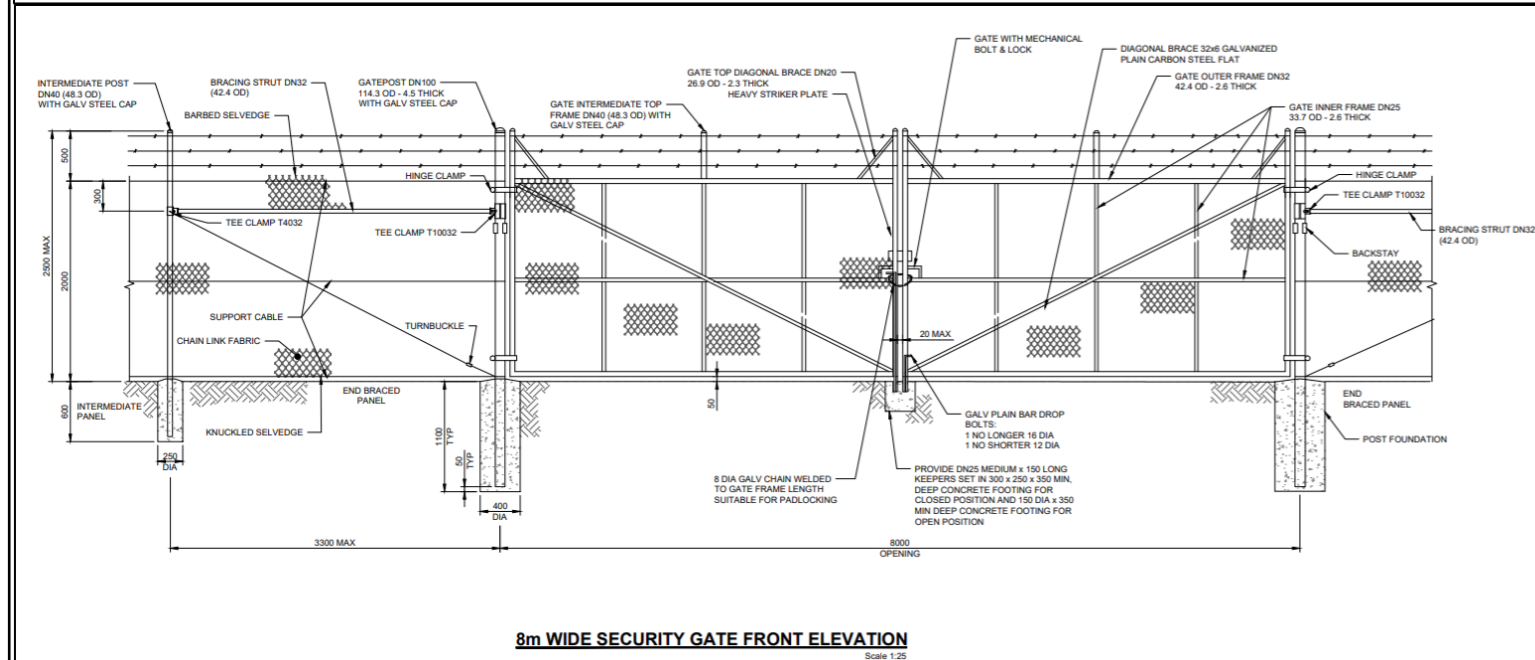
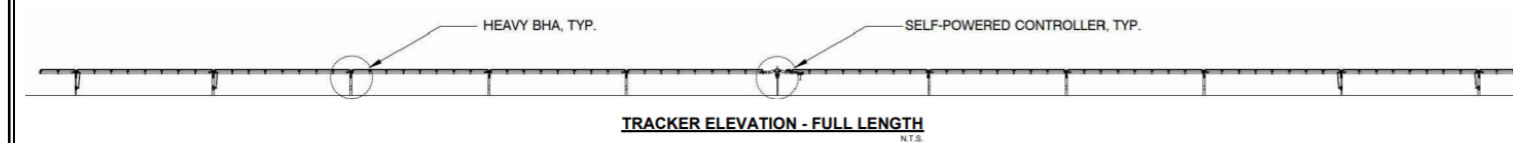
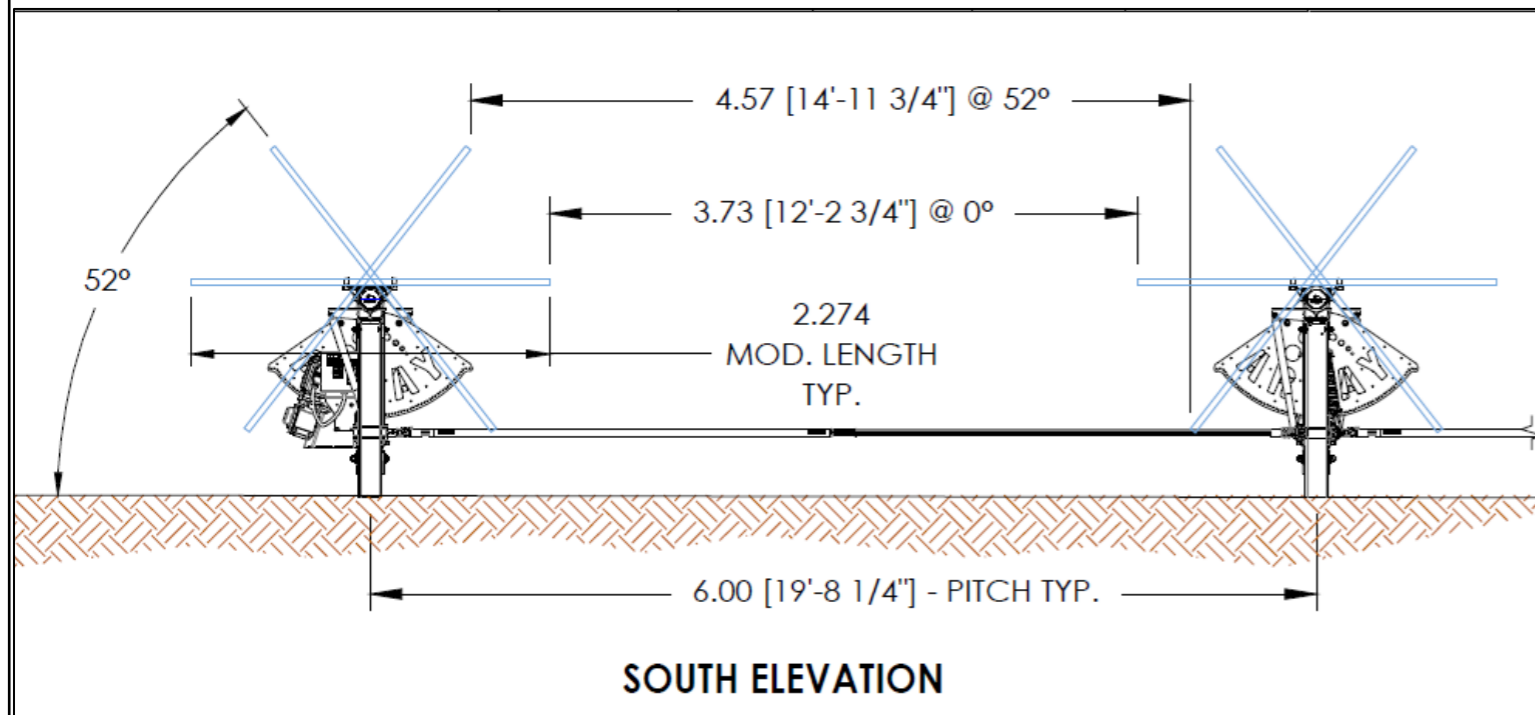


Notes

1. Solar Module Estimated Dimensions: 2465 X 1134 X 35MM (L X W X D)
2. Add an additional ~300-800mm to unit height for total height above ground, as the unit may sit atop an elevated platform secured in ground by 4-6 pilings
3. Conceptual/indicative examples only. Final equipment will be selected during detailed procurement process and may be subject to additional design requirements

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CONCEPT ELEVATION PLAN



Notes

1. Solar Module Estimated Dimensions: 2465 X 1134 X 35MM (L X W X D)
2. Add an additional ~300-800mm to unit height for total height above ground, as the unit may sit atop an elevated platform secured in ground by 4-6 pilings
3. Conceptual/indicative examples only. Final equipment will be selected during detailed procurement process and may be subject to additional design requirements

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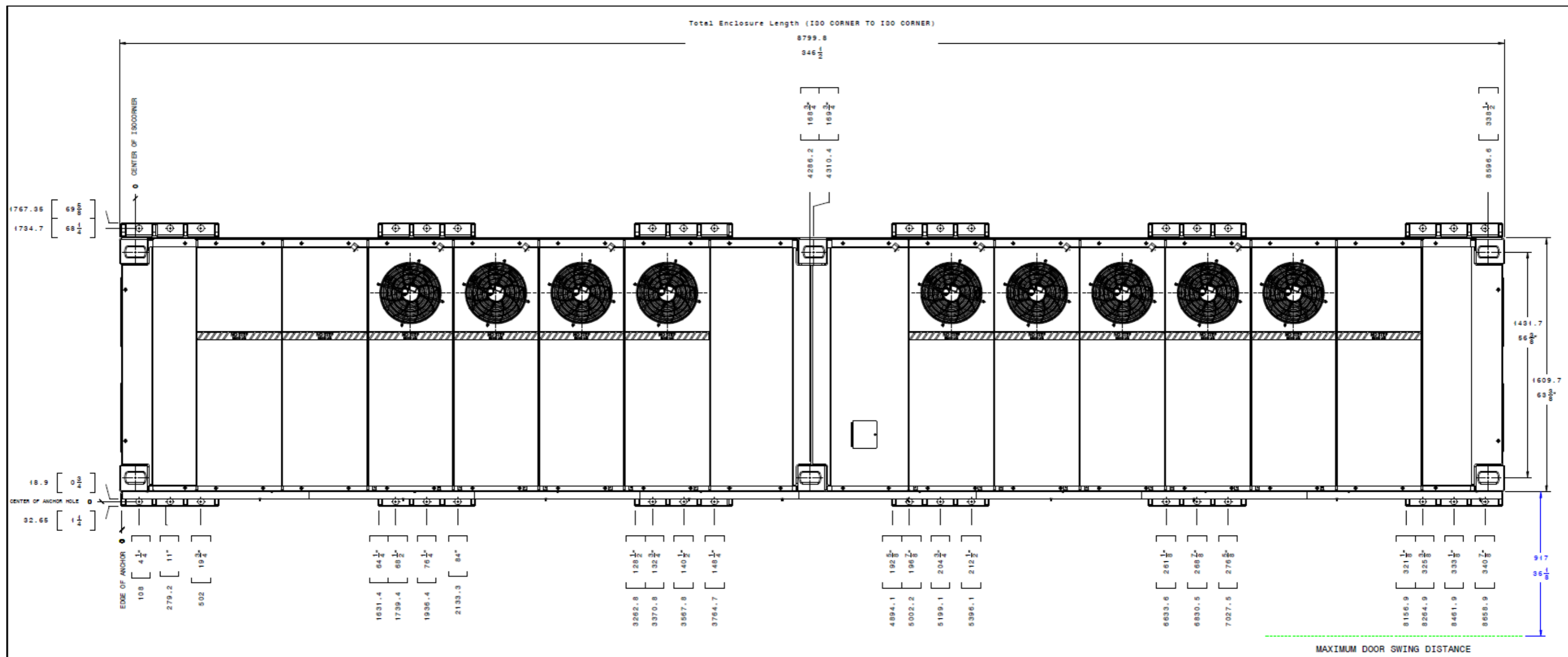
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**Muskerry Solar Power Station
Concept Elevation Plans**

CONCEPT ELEVATION PLAN

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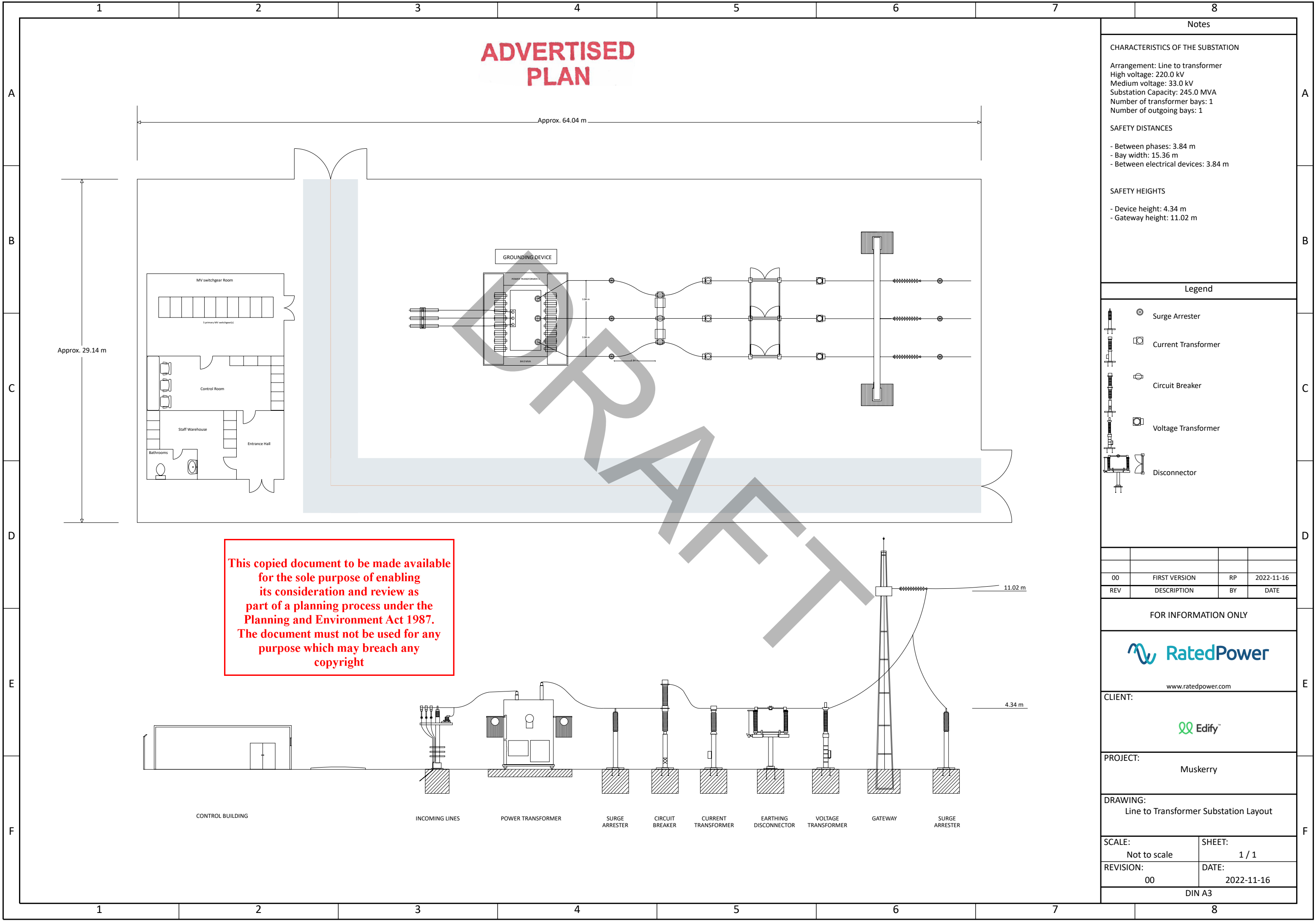
Notes

1. Solar Module Estimated Dimensions: 2465 X 1134 X 35MM (L X W X D)
2. Add an additional ~300-800mm to unit height for total height above ground, as the unit may sit atop an elevated platform secured in ground by 4-6 pilings
3. Conceptual/indicative examples only. Final equipment will be selected during detailed procurement process and may be subject to additional design requirements

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Muskerry Solar Power Station
Concept Elevation Plans



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Notes

CHARACTERISTICS OF THE SUBSTATION
Arrangement: Line to transformer
High voltage: 220.0 kV
Medium voltage: 33.0 kV
Substation Capacity: 245.0 MVA
Number of transformer bays: 1
Number of outgoing bays: 1

SAFETY DISTANCES
- Between phases: 3.84 m
- Bay width: 15.36 m
- Between electrical devices: 3.84 m

SAFETY HEIGHTS
- Device height: 4.34 m
- Gateway height: 11.02 m

Legend

Surge Arrester

Current Transformer

Circuit Breaker

Voltage Transformer

Disconnecter

FOR INFORMATION ONLY

www.ratedpower.com

CLIENT:

PROJECT:
Muskerry

DRAWING:
Line to Transformer Substation Layout

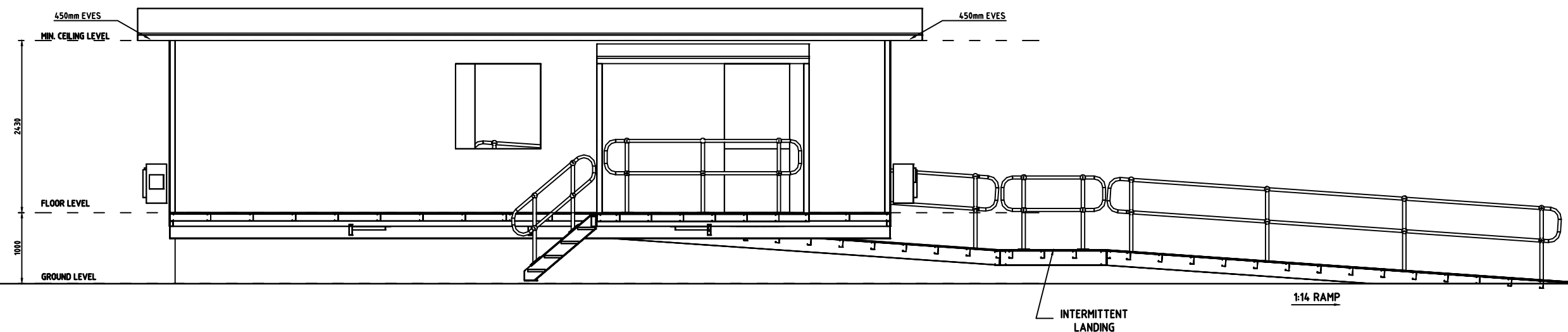
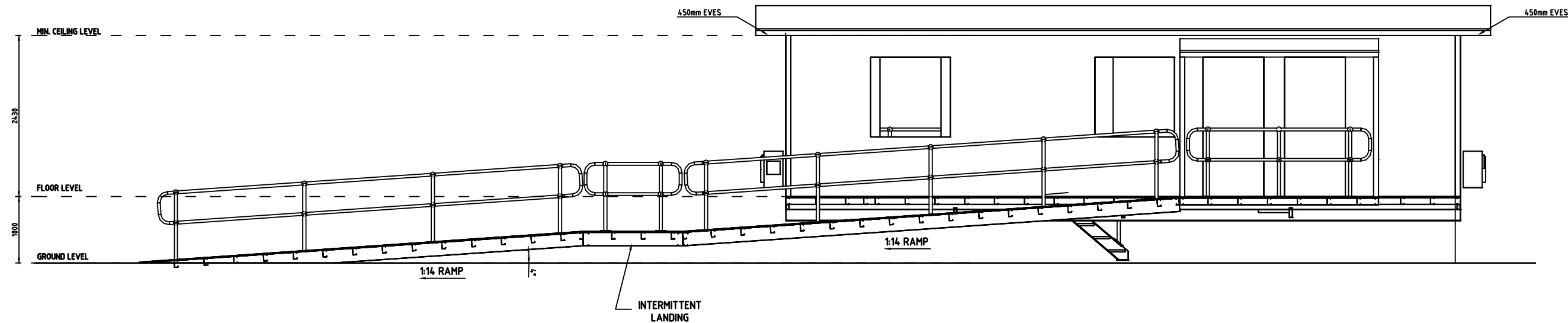
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SHEET:
1 / 1

REVISION:
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DATE:
2022-11-16

DIN A3



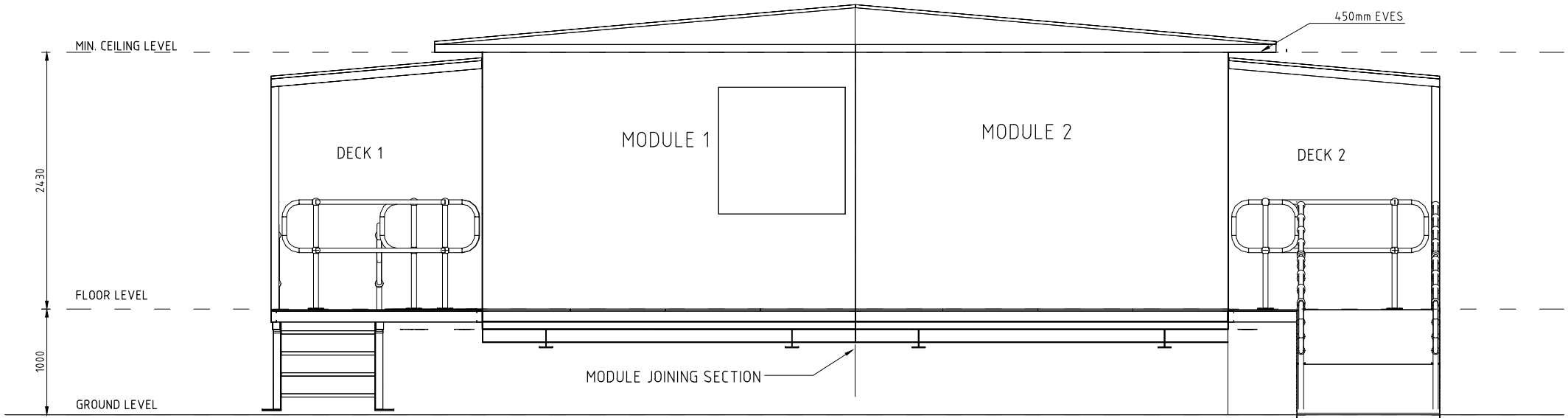
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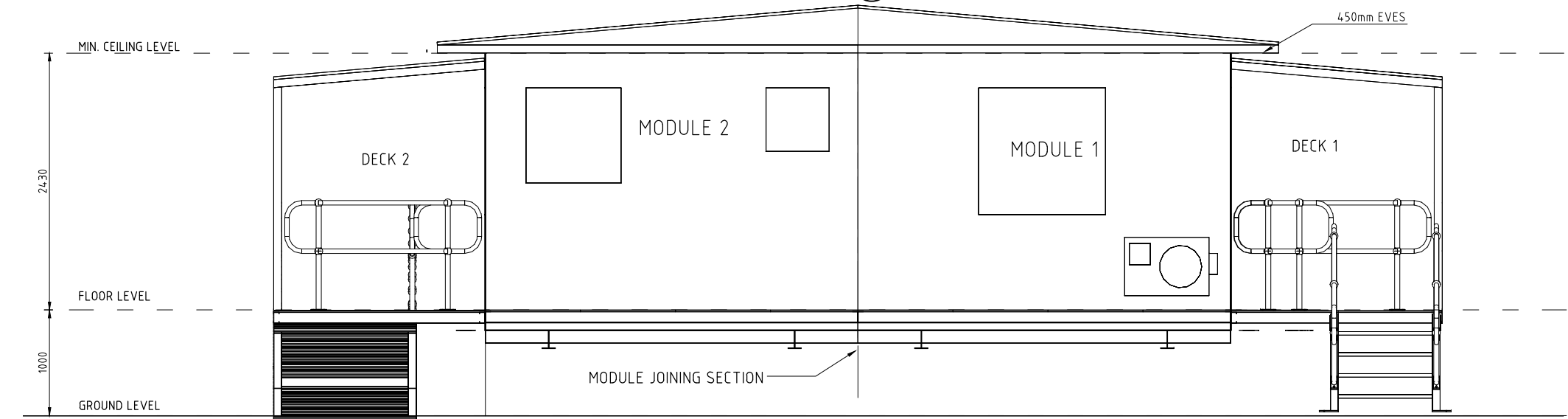
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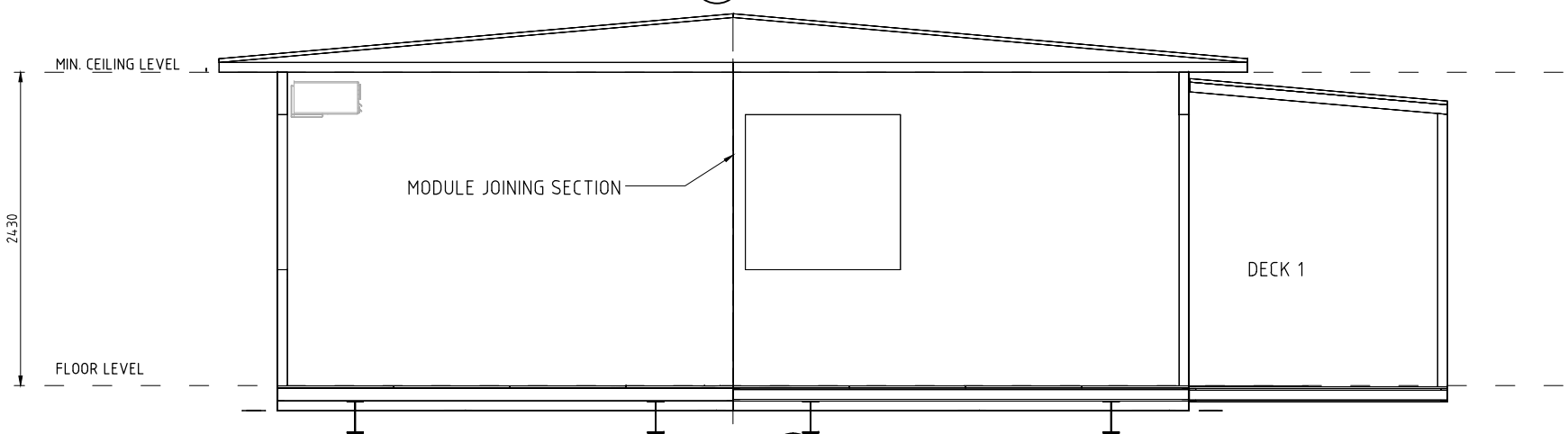
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LOCATION		CHECKED G.H	TITLE CONTROL / OFFICE BUILDING			
		DESIGN S.G				
DEVELOPER CTB		DESIGN CHECKED S.G	A1	JOB NUMBER 6283	SHEET 1	REV 2



ELEVATIONS VIEW A
SCALE 1:25



ELEVATIONS VIEW B
SCALE 1:25



SECTION 1
SCALE 1:25

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CONCEPT

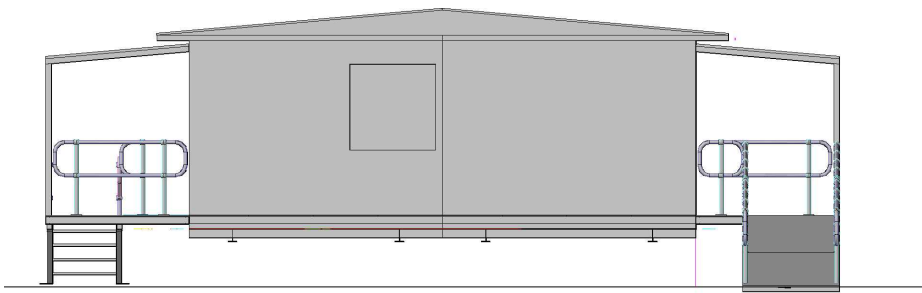
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1	01.05.19	ISSUED FOR APPROVAL

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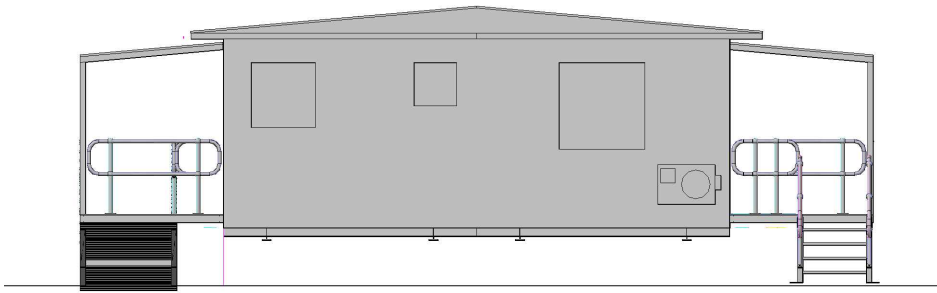


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DEVELOPER	CTB	DESIGN	S.G						
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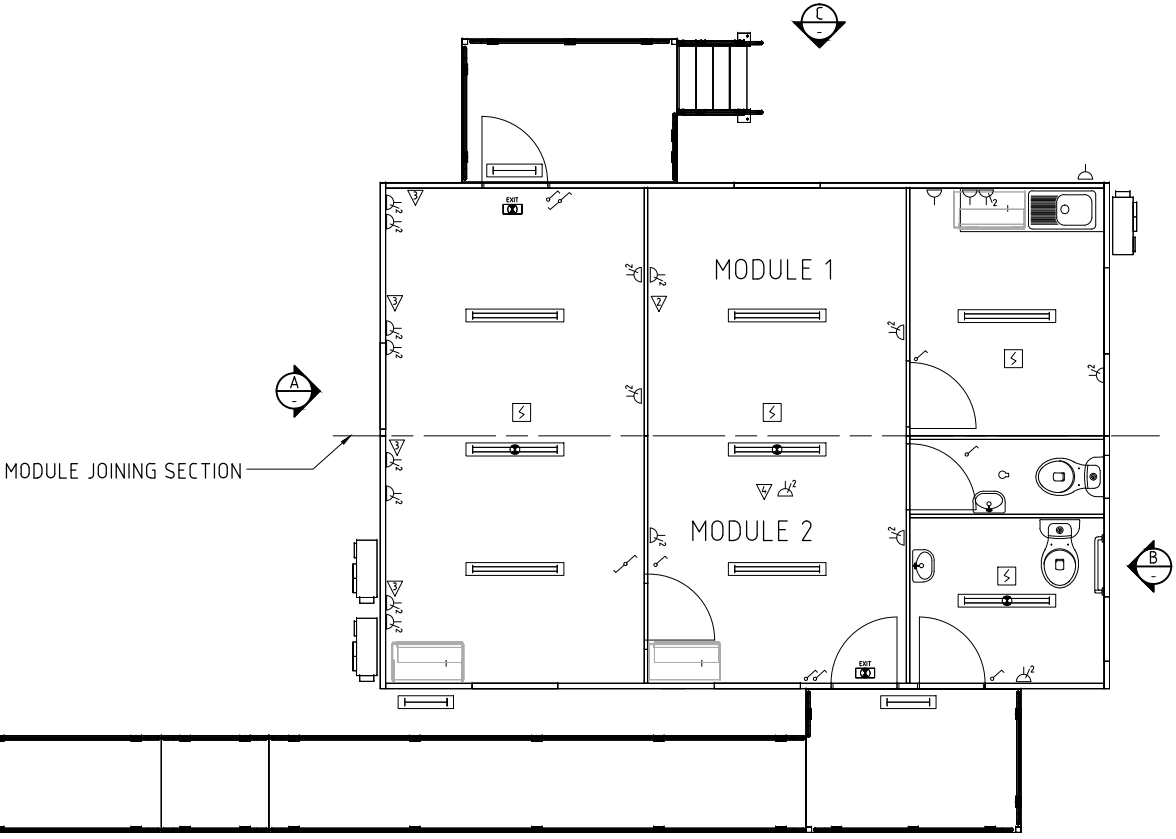
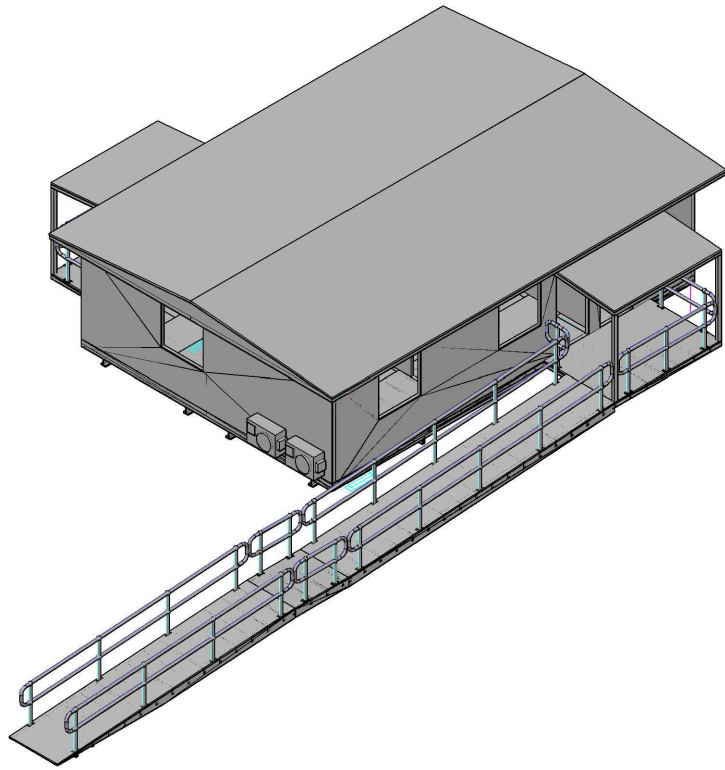
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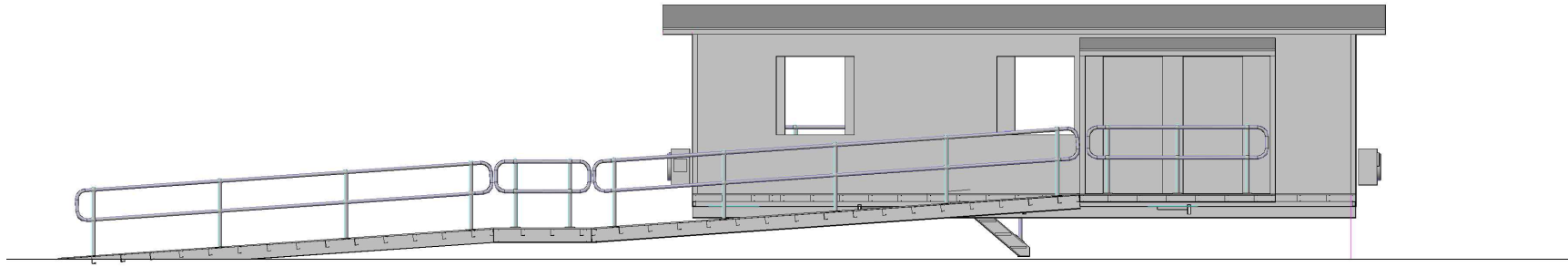
ELEVATIONS VIEW A
SCALE 1:50



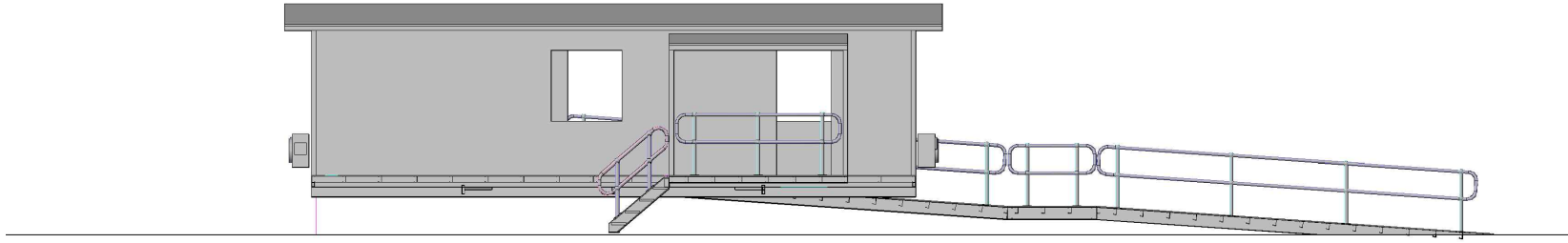
ELEVATIONS VIEW B
SCALE 1:50



FLOOR PLAN
SCALE 1:50



ELEVATIONS VIEW D
SCALE 1:50



ELEVATIONS VIEW C
SCALE 1:50

CONCEPT

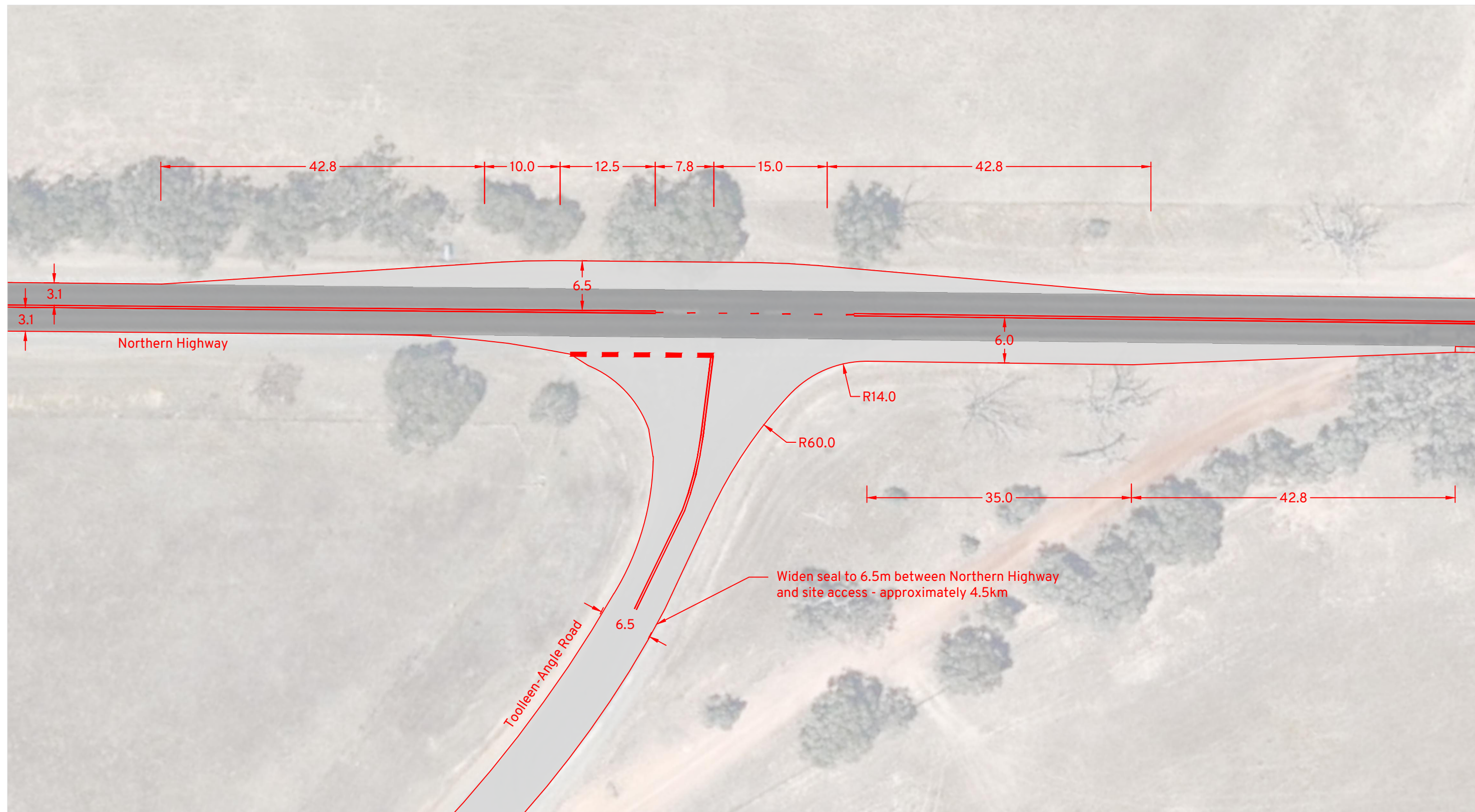
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DEVELOPER	CTB	DESIGN	S.G						
		DESIGN CHECKED	S.G	A1	JOB NUMBER	6283	SHEET	1	REV 3



The following design details have been taken from Austroads Guide to Road Design Part 4A:

Basic Right-turn Treatment (BAR) Section 7.5.1.

- 1: Design speed of 110km/h.
- 2: Lane widths of 3.1m have been used.
- 3: Road widening to 6.5m.
- 4: Minimum lateral movement (A) is 42.8m.
- 5: Storage length is 12.5m for one Heavy Rigid Vehicle.

Basic Left-turn Treatment (BAL) Section 8.2.

- 1: Design speed of 110km/h.
- 2: Lane widths of 3.1m have been used.
- 3: Road widening to 6.0m.
- 4: Diverge length is 42.8m.
- 5: Setback distance is 6.0m

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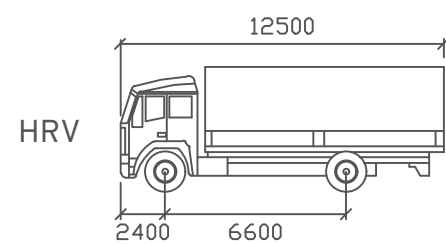
Muskerry Solar Power Station
Northern Highway/Toolleen-Angle Road Intersection
Concept Plan

DRAWN: CT
DATE: 19/01/2022
SCALE: 1:500m @ A3
DWG NO: 274 S03B

Amber 01



Vehicle Envelope
300mm Clearance



Width : 2500
Track : 2500
Lock to Lock : 6.0s
Steering Angle : 35.2

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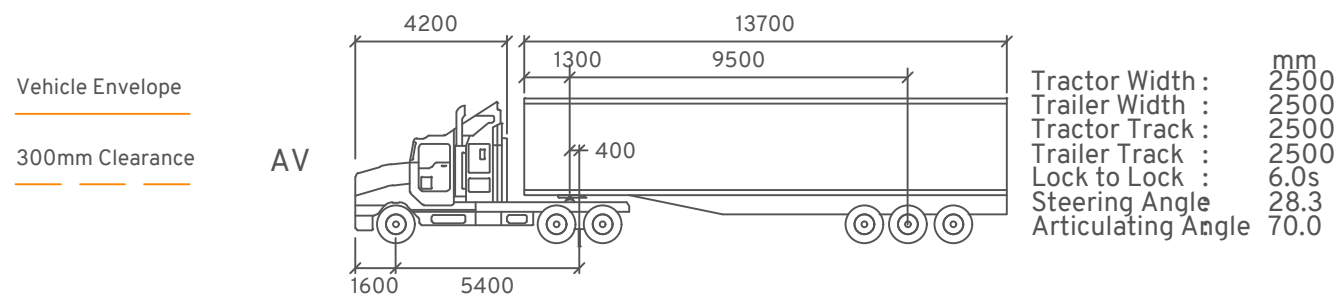


Muskerry Solar Power Station
Northern Highway/Toolleen-Angle Road Intersection
Concept Plan

DRAWN: CT
DATE: 19/01/2022
SCALE: 1:500m @ A3
DWG NO: 274 S03B

Amber 02

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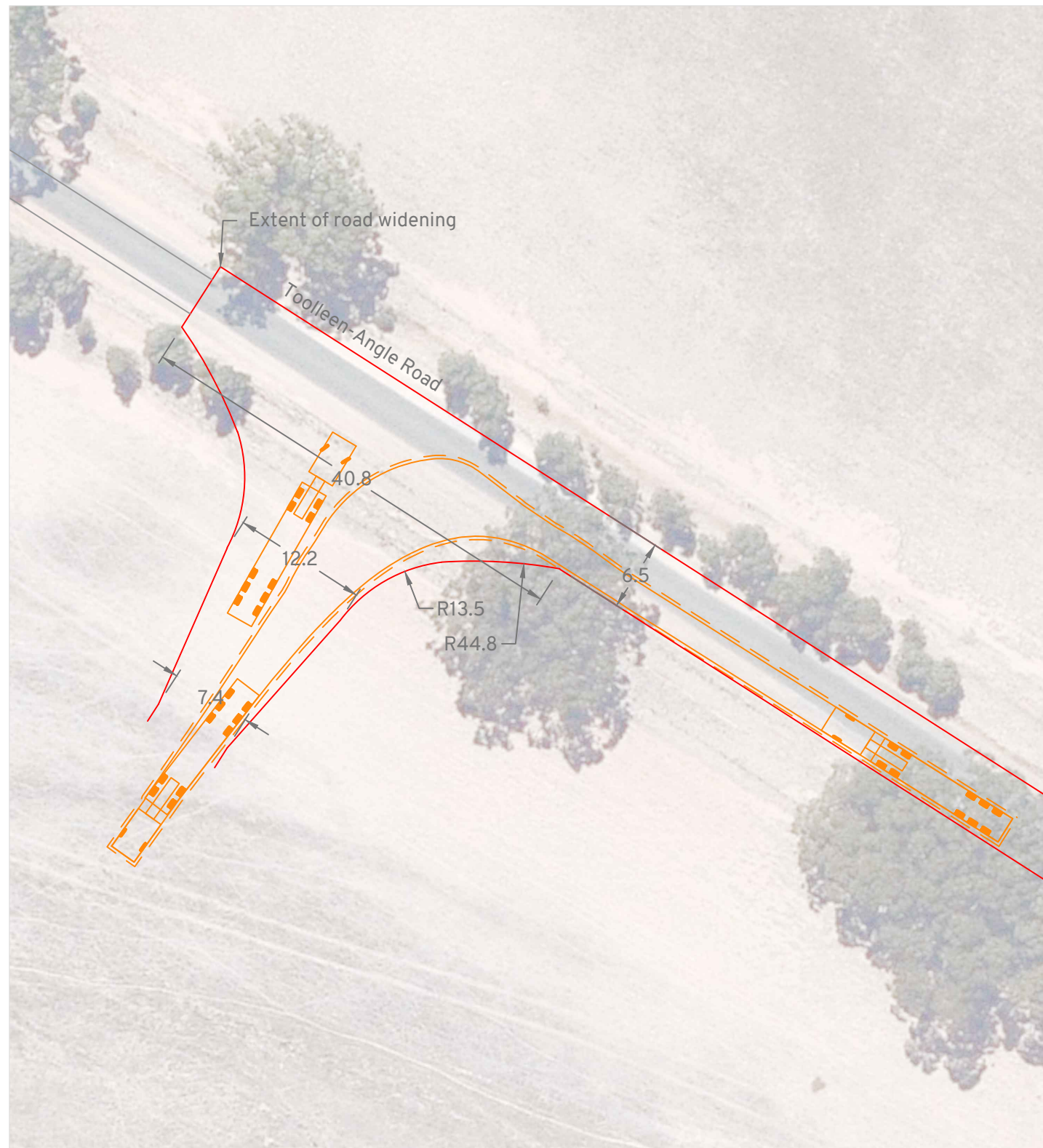
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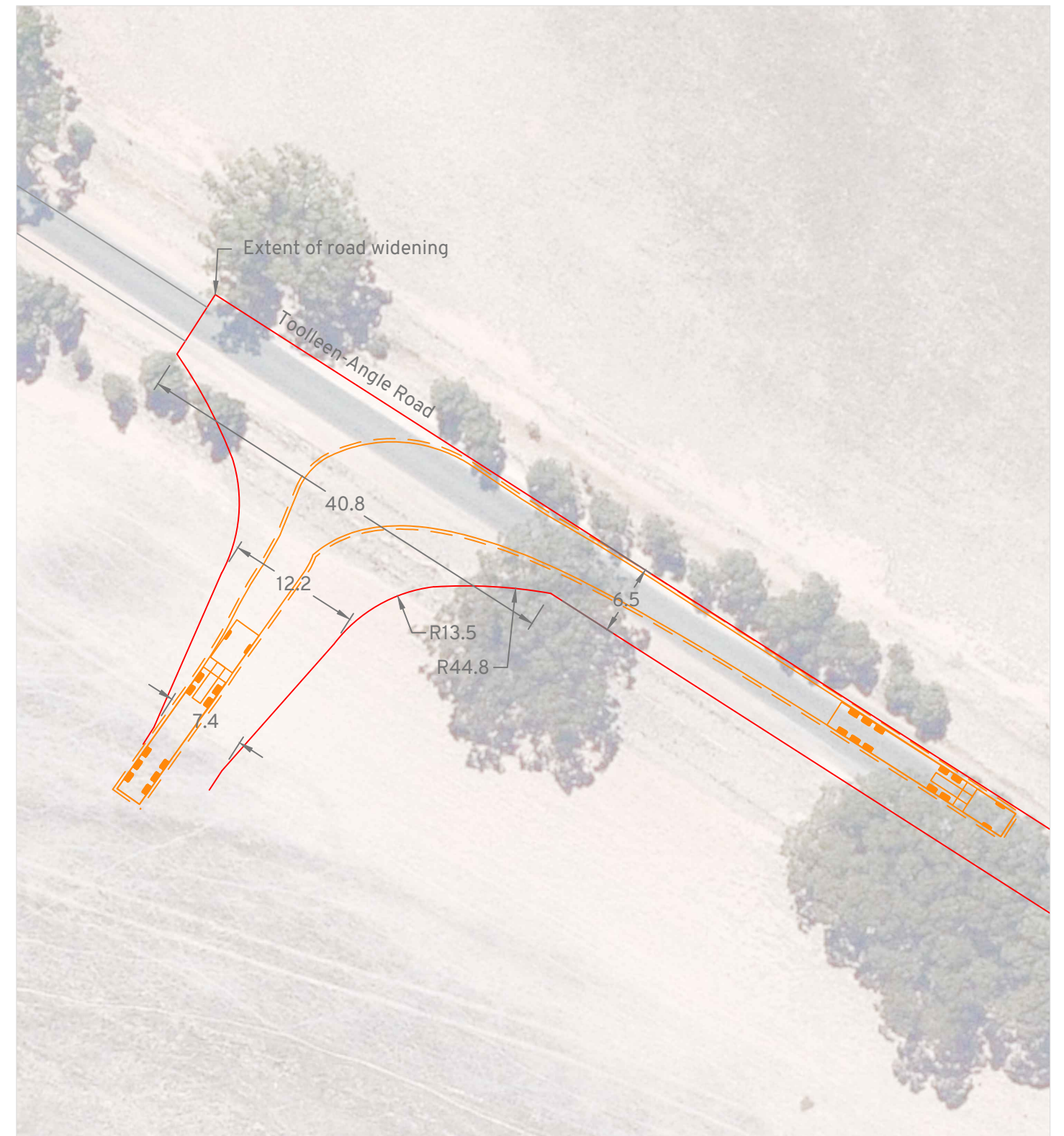
Muskerry Solar Power Station
Northern Highway/Toolleen-Angle Road Intersection
Concept Plan

DRAWN: CT
DATE: 19/01/2022
SCALE: 1:500m @ A3
DWG NO: 274 S03B

Amber 03



Entry Manoeuvre

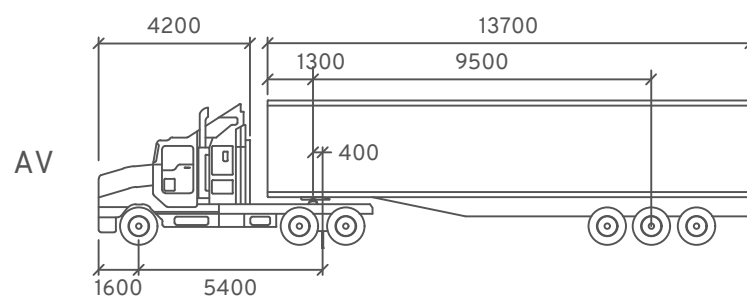


Exit Manoeuvre

Vehicle Envelope

300mm Clearance

Reverse Manoeuvre



Tractor Width : 2500
Trailer Width : 2500
Tractor Track : 2500
Trailer Track : 2500
Lock to Lock : 6.0s
Steering Angle : 28.3
Articulating Angle : 70.0

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Muskerry Solar Farm
Access Layout Plan
Swept Path Assessment

DRAWN: CT
DATE: 28/10/2022
DWG NO: 274 S04B
SCALE at A3: 1:200

Amber 01