

Layout Infrastructure	Distance to Nearest Site Boundary
Concrete Batching Plant	707 m
On-site Substation	211 m
Site Compound	99 m

PLANNING and ENVIRONMENT ACT
 MOYNE PLANNING SCHEME
 PERMIT NO: P120190221-2
 Endorsed in accordance with condition 1
 MODIFIED ENDORSED PLAN
 Sheet 1 of 31
 Signed: *Mojib* for
 MINISTER FOR PLANNING
 Date: 17 August 2023

Legend

- Approved Turbine Location
- Proposed New Turbine Location
- Site Entrance
- Dwelling (Stakeholder)
- Dwelling (Non-stakeholder)
- Proposed Monitoring Mast
- Proposed Cable Trenches
- Proposed Access Tracks
- Road Upgrades to be Implemented (As Included in the Endorsed TMP)
- Concrete Batching Plant
- Site Compound
- On-site Substation
- Site Boundary
- 1 km Turbine Buffer

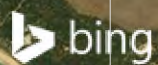
Source:
 Imagery : Bing Maps Hybrid
 Layout : Client Nov 2021
 Base Data : DELWP Vicmap

Proposed Site Layout

Drawing No: 0105123_001_RCWF_Layout_R10.mxd	Ryan Corner Wind Farm
Date: 11/11/2021	Drawing Size: A3
Drawn By: GR	Reviewed By: GAA
Client: Ryan Corner Development Pty Ltd	
Coordinate System: GDA 1994 MGA Zone 54	

0 500 1,000m

This figure may be based on third party data or data which has not been verified by ERM and it may not be to scale. Unless expressly agreed otherwise, this figure is intended as a guide only and ERM does not warrant its accuracy.



VESTAS V-136 TURBINE

VESTAS V136 TURBINE

BLADE TRAILING EDGE IS SERRATED TO DECREASE SOUND OF BLADE MOVING THROUGH THE AIR

BLADE
HUB
NACELLE

TOWER

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

PERMIT NO. 2006/0222-2
Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
Sheet 3 of 31

Signed: *Mofulte* for
MINISTER FOR PLANNING
Date: 17 August 2023

NATURAL GROUND LEVEL

ROTOR SWEEP AREA
GROUND CLEARANCE

OVERALL TURBINE TIP HEIGHT

Wind Turbine Model: Vestas V136-4.2MW

Colour for Nacelle, Hub, Blades and Tower to be Off-white / light grey and non reflective
The tower and nacelle will be made from steel and the blades will be of carbon fibre material

LAYOUT	NUMBER OF TURBINES	OVERALL TURBINE TIP HEIGHT (m)	ROTOR SWEEP AREA GROUND CLEARANCE (m)	TOWER HEIGHT (m)	ROTOR DIAMETER (m)
VESTAS V-136 4.2MW	52	180	44	112	136



VER	DATE	DRAWN	REVIEW	ENDORSED	REVISION COMMENT
9	13.01.2021	GR	GAC		Revised for Endorsement. Insert "Serrated" Comment
8	28.10.2020	GR	GAC		Revised for Endorsement
7	13.10.2020	GR	GAC		Revised for Endorsement
6	13.04.2017	SQ	GAC		Revised for Permit Amendment
5	24.03.2017	SQ	GAC		Revised for Permit Amendment
4	09.12.2016	SQ	GAC		Issued for Permit Amendment

RYAN CORNER DEVELOPMENT PTY LTD

PROJECT TITLE: RYAN CORNER WIND FARM DEVELOPMENT PLAN

PLAN TITLE: WIND TURBINE DIMENSIONS PROFILE & ELEVATION VIEW
SCALE: As Shown



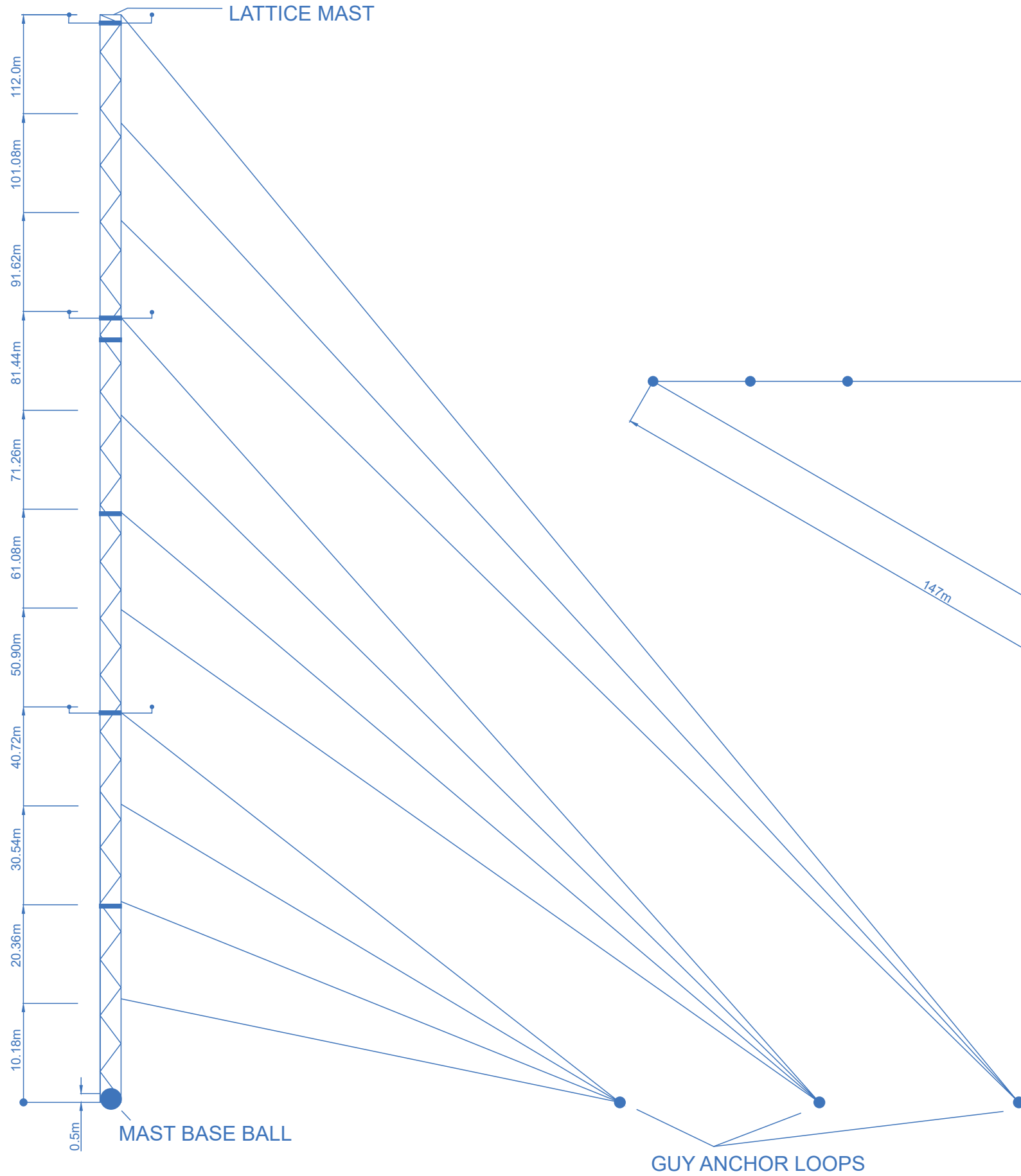
DRAWING No: RCWF-DP-02-v09
SHEET 1 OF 1

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A3

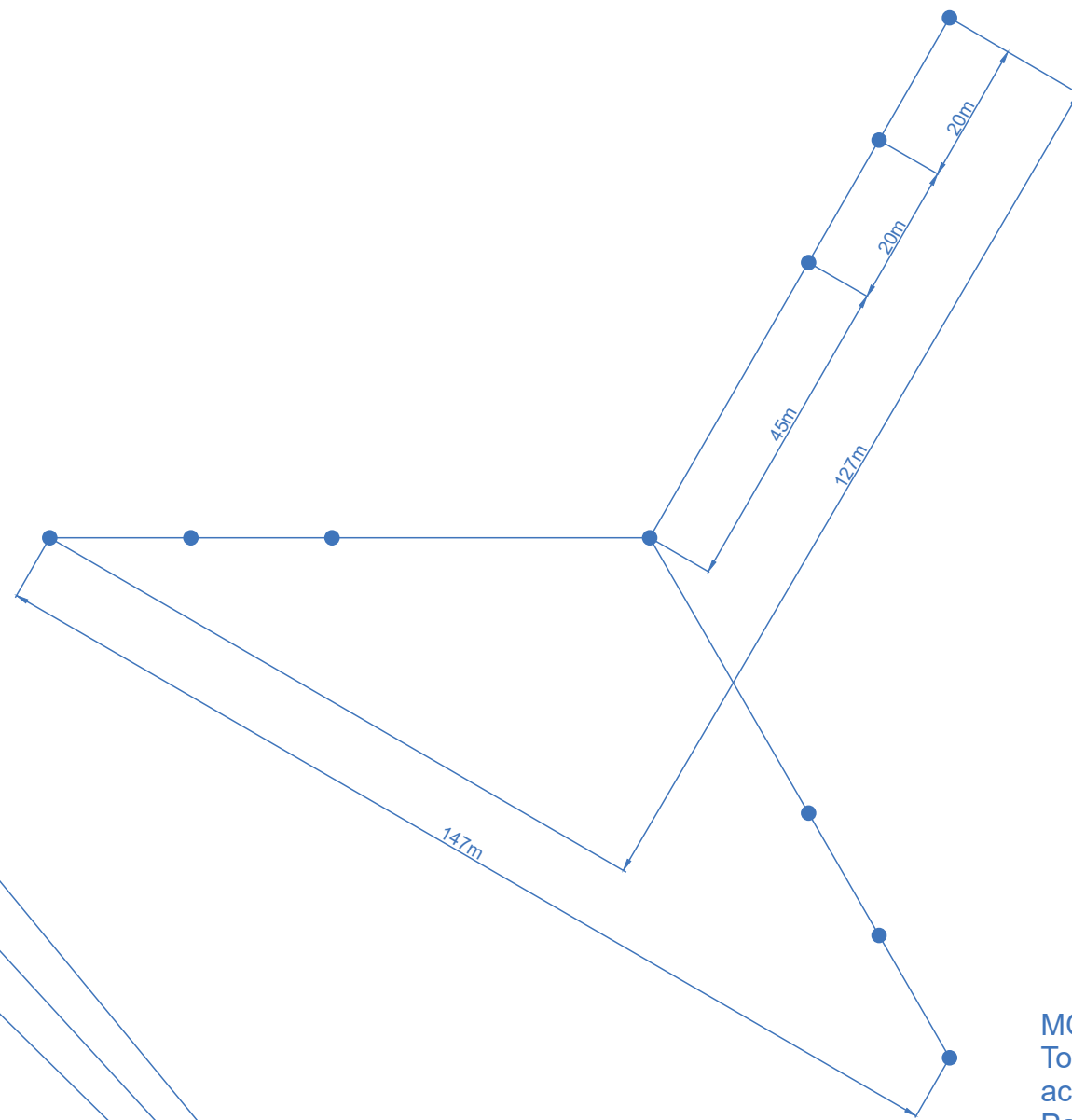
ELEVATION VIEW

SCALE 1:500



PLAN VIEW

SCALE 1:1000



**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

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Sheet 4 of 31

Signed: *[Signature]* for
MINISTER FOR PLANNING
Date: 17 August 2023

MONITORING MAST DETAILS:
Towers will be steel, hot dip galvanized according to EN ISO 1461.
Painting is according to EN ISO 12944-5 corrosion category C2 on top of the hot dip galvanizing. The paint thickness will be C2.

VER	DATE	DRAWN	REVIEW	VERIFY	APPROVE	REVISION COMMENT
4	14/06/21	GR	GA			Revised for Endorsement
3	18/04/18	GAA	GA			Revised for Endorsement
2	20/04/18	SR	SQ			Issued for Endorsement
1	10/02/12	LC	SQ			Issued for Endorsement

GLOBAL POWER GENERATION AUSTRALIA PTY LTD
RYAN CORNER DEVELOPMENT PTY LTD

PROJECT TITLE:
RYAN CORNER WIND FARM
DEVELOPMENT PLAN

PLAN TITLE:
MONITORING MAST DETAILS

SCALE:
AS SHOWN

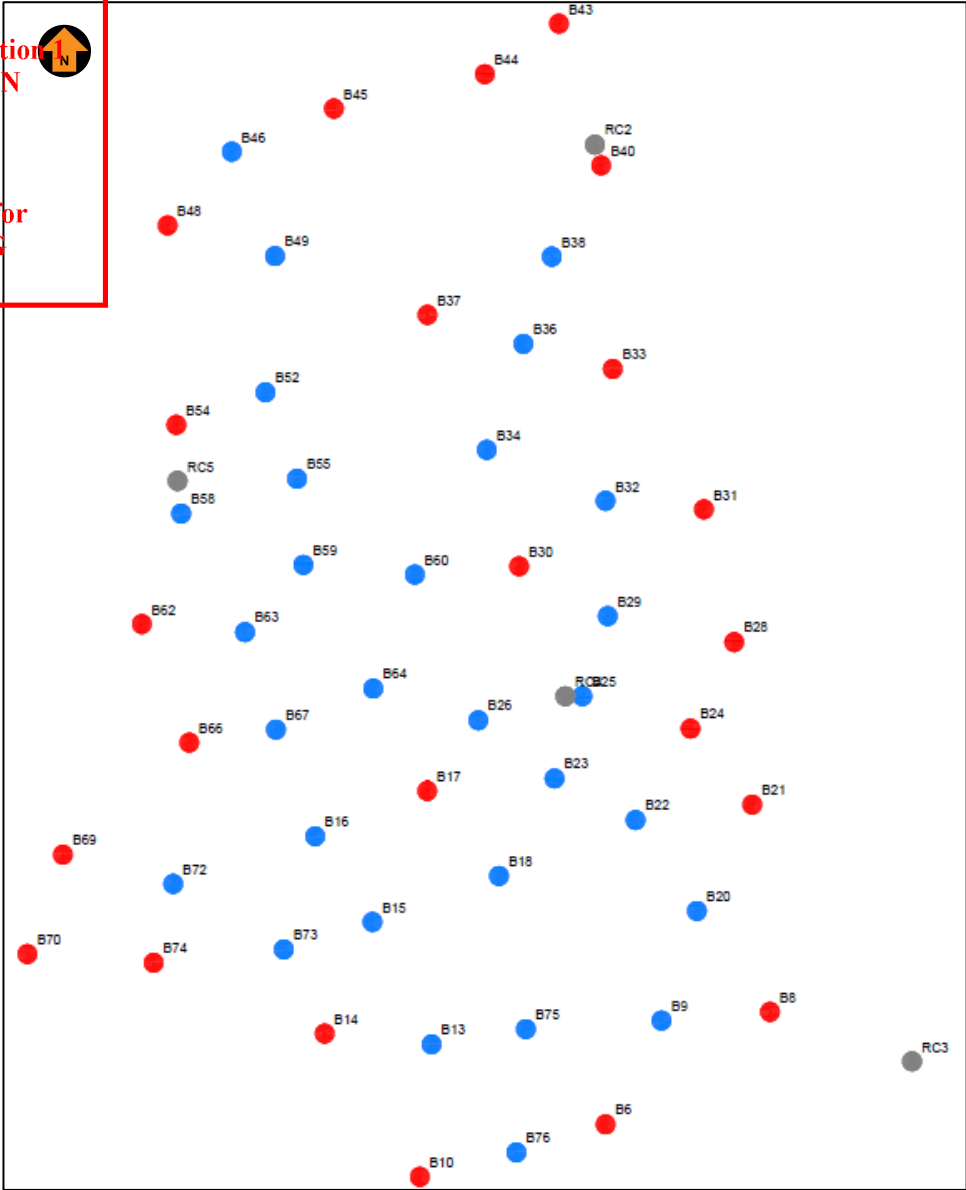
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PERMIT NO. 2006/0222-2

**Endorsed in accordance with condition
MODIFIED ENDORSED PLAN**

Sheet 5 of 31

Signed:  for
MINISTER FOR PLANNING
Date: 17 August 2023



Legend

- Lit
- Unlit
- Met mast

Light and Shielding Specification:

Lights


- **2 low intensity** steady red lights:
 - fixed lights showing red
 - a horizontal beam spread that results in 360° coverage around the obstacle
 - a minimum intensity of 100 candela (cd)
 - a vertical beam spread (to 50% of peak intensity) of 10°
 - a vertical distribution with 50 cd minimum at +6° and +10° above the horizontal
 - not less than 10 cd at all elevation angles between -3° and +90° above the horizontal.

Shielding

- shielding of the downward component of obstacle lighting is permitted, and if used must be such that:
 - (a) no more than 5% of the nominal light intensity is emitted at or below 5° below horizontal
 - (b) no light is emitted at or below 10° below horizontal
- two lights must be provided on top of the generator housing in a way that allows at least one of the lights to be seen from every angle in azimuth.

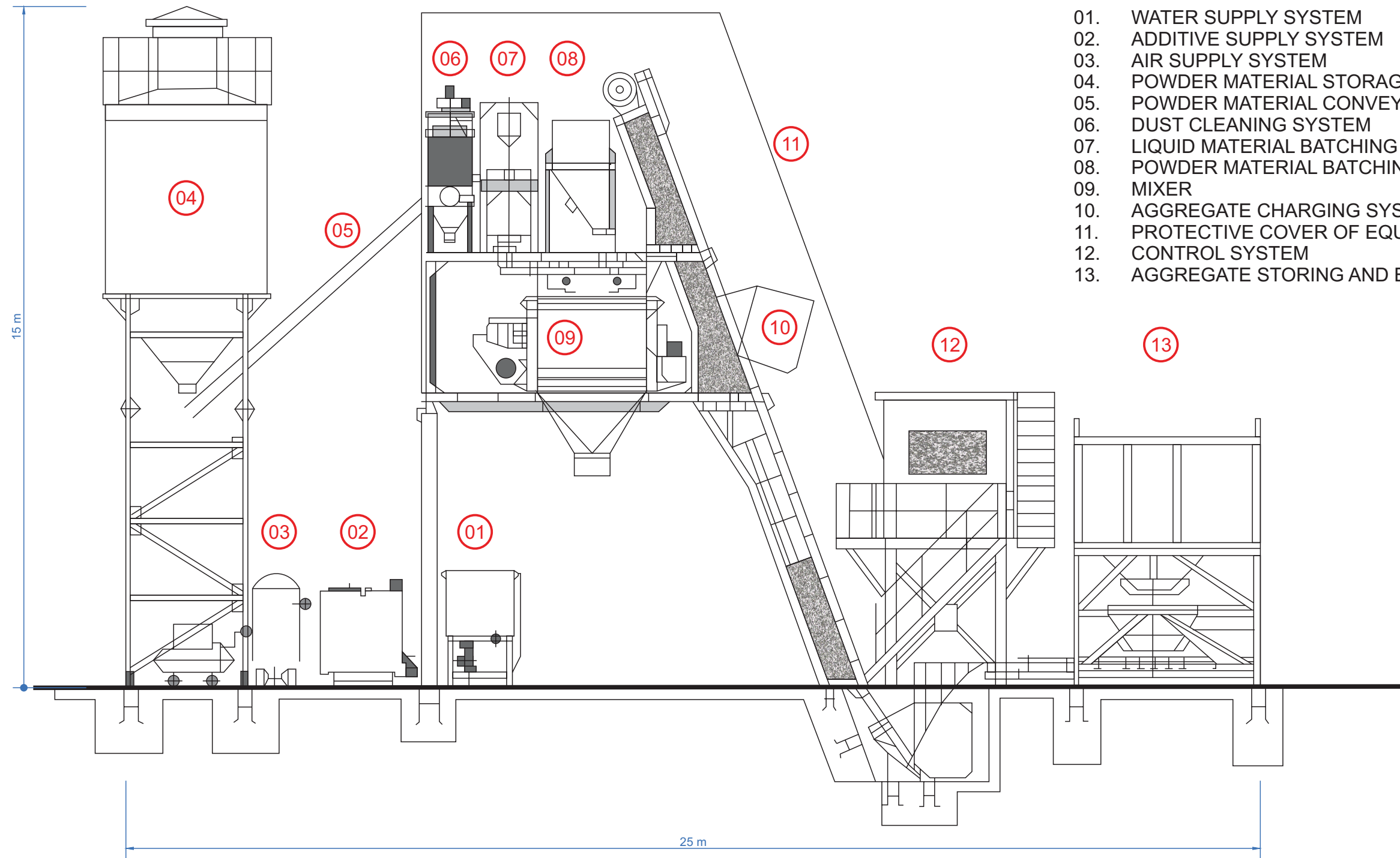
References

- Civil Aviation Safety Authority, *Part 139 (Aerodromes) Manual of Standards 2019*, dated 5 September 2019; Chapter 9 Division 4 Obstacle lighting (Sections 9.31, 9.32 and 9.33)
- Department of Infrastructure and Regional Development, Australian Government, National Airport Safeguarding Framework, *Guideline D Managing the Risk of Wind Turbine Farms as Physical Obstacles to Air Navigation*, 2013, paragraphs 35, 36 and 37
- Victoria State Government, Department of Environment, Land, Water and Planning, Planning Permits 2006600222-A, dated 2008
- Victoria State Government, Department of Environment, Land, Water and Planning, Guidelines, Development of wind energy facilities in Victoria, 2017.

RYAN CORNER WIND FARM – OBSTACLE LIGHTING PLAN	Project: 100404-03.1	Prepared by: K Smit	Version: 1.1_210416	 AVIATION PROJECTS
	Scale: Not to scale	Date: 16/04/21	Page: 1 out 1	

ELEVATION VIEW

SCALE 1:100




- 01. WATER SUPPLY SYSTEM
- 02. ADDITIVE SUPPLY SYSTEM
- 03. AIR SUPPLY SYSTEM
- 04. POWDER MATERIAL STORAGE SYSTEM
- 05. POWDER MATERIAL CONVEY SYSTEM
- 06. DUST CLEANING SYSTEM
- 07. LIQUID MATERIAL BATCHING SYSTEM
- 08. POWDER MATERIAL BATCHING SYSTEM
- 09. MIXER
- 10. AGGREGATE CHARGING SYSTEM
- 11. PROTECTIVE COVER OF EQUIPMENT
- 12. CONTROL SYSTEM
- 13. AGGREGATE STORING AND BATCHING SYSTEM

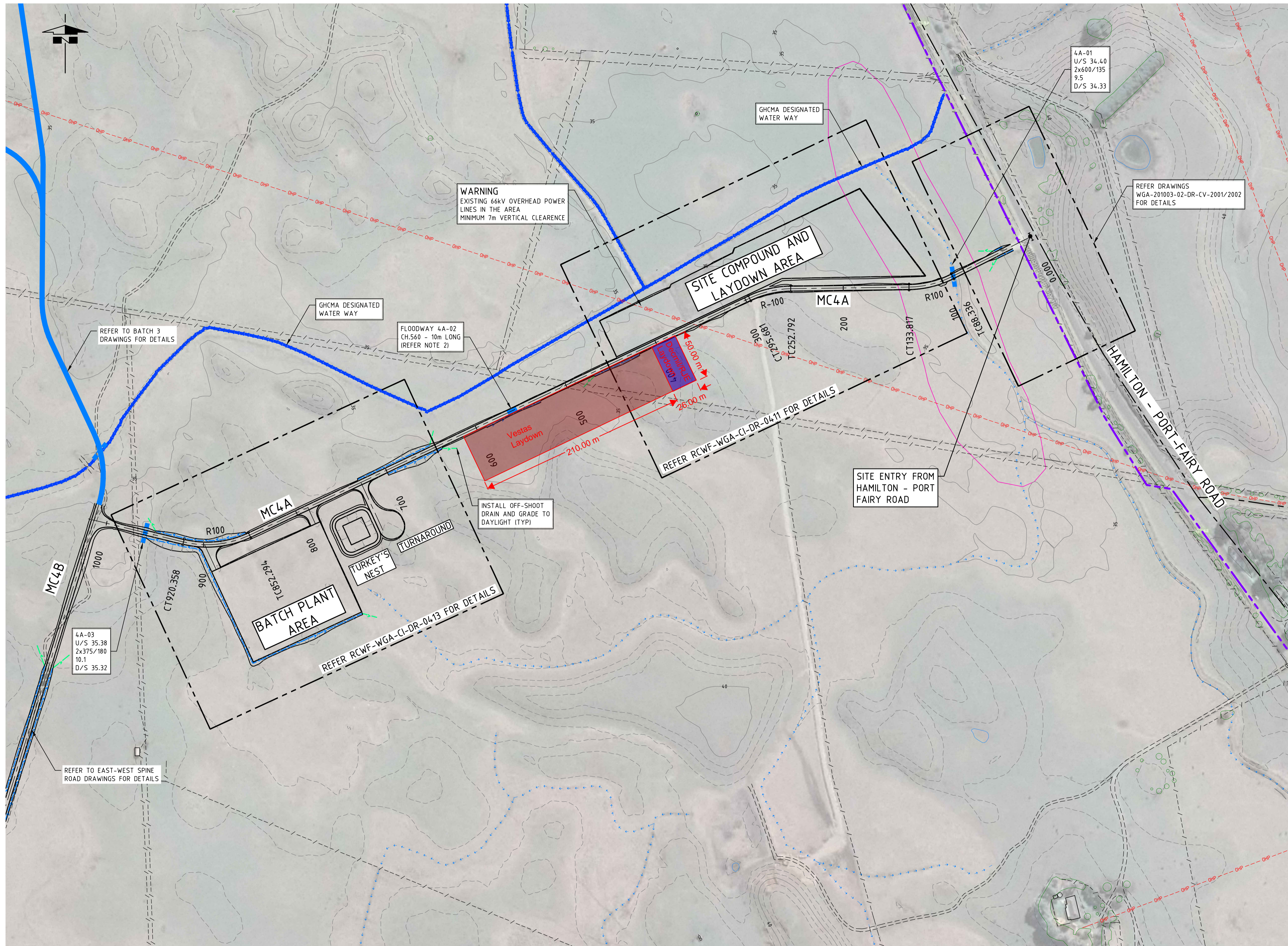
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**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

PERMIT NO. 2006/0222-2
Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
Sheet 6 of 31

Signed:  for
MINISTER FOR PLANNING
Date: 17 August 2023

1	27/04/18	SR	SQ			Issued for Endorsement
VER	DATE	DRAWN	REVIEW	VERIFY	APPROVE	REVISION COMMENT
GLOBAL POWER GENERATION AUSTRALIA PTY LTD RYAN CORNER DEVELOPMENT PTY LTD						
PROJECT TITLE: RYAN CORNER WIND FARM DEVELOPMENT PLAN						
PLAN TITLE: CONCRETE BATCH PLANT ELEVATION						SCALE: 1:100
 A subsidiary of Gas Natural Fenosa						Plan: DRAWING No: RCWF-DP-06-v01 SHEET 1 OF 1

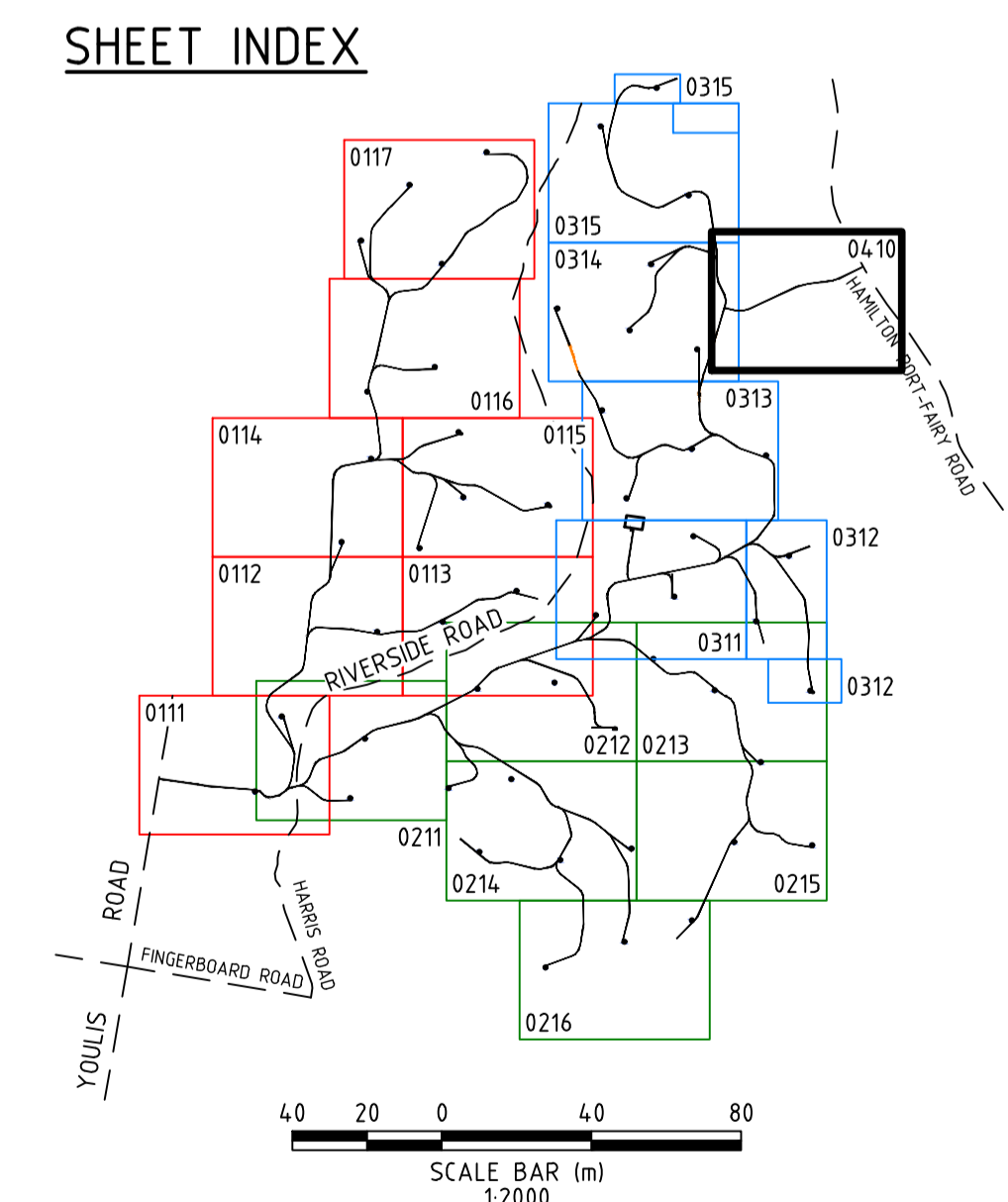


LEGEND

- EXISTING 1.0m CONTOURS
- EXISTING 5.0m CONTOURS
- TURBINE LOCATION
- ACCESS ROAD
- GLENELG HOPKINS CATCHMENT MANAGEMENT AUTHORITY (GHCMA) DESIGNATED WATER WAY
- EXISTING FARM DRAINS
- STORMWATER CULVERT
- FLOODWAY
- TABLE DRAIN
- OFFSHOOT DRAIN
- CUT-OFF BUND
- LEVEL SPREADER
- DRAINAGE BLOCK
- WIND FARM PROJECT BOUNDARY
- EXISTING FARM FENCES
- VEGETATION
- EXISTING SMALL FARM DAMS
- WETLANDS AND NATIVE VEGETATION

- ### NOTES
- REFER DRAWING RCWF-WGA-CI-DR-0001 FOR GENERAL NOTES.
 - REFER TO PROFILE DRAWINGS FOR MINIMUM EXTENT OF CEMENT STABILISATION PAVEMENT.

- ### REFERENCE DRAWINGS
- RCWF-WGA-CI-DR-0001 CIVIL WORKS - SITE PLAN, DRAWING LIST & NOTES
 - RCWF-WGA-CI-DR-0002 CIVIL WORKS - TURBINE COORDINATES
 - RCWF-WGA-CI-DR-0003 CIVIL WORKS - STAGING PLAN
 - RCWF-WGA-CI-DR-0010 CIVIL WORKS - TYPICAL DETAILS - TURBINE HARDSTANDS
 - RCWF-WGA-CI-DR-0011 CIVIL WORKS - TYPICAL DETAILS - ACCESS ROAD & PAVEMENT DETAILS
 - RCWF-WGA-CI-DR-0012 CIVIL WORKS - TYPICAL DETAILS - DRAINAGE DETAILS - CULVERTS
 - RCWF-WGA-CI-DR-0013 CIVIL WORKS - TYPICAL DETAILS - DRAINAGE DETAILS - FLOODWAYS



**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

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MODIFIED ENDORSED PLAN
Sheet 7 of 31

Signed: *[Signature]* for
MINISTER FOR PLANNING
Date: 17 August 2023

PLAN
SCALE 1:2000

REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHKD
A	21.12.2020	30% DESIGN SUBMISSION		EN	WB JB
B	12.02.2021	80% DESIGN SUBMISSION		EN	WB JB
0	23.03.2021	ISSUED FOR CONSTRUCTION		IS	WB NM

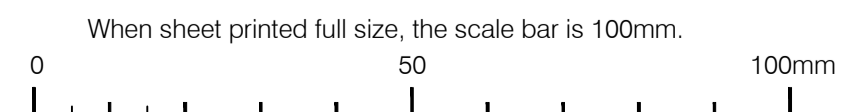


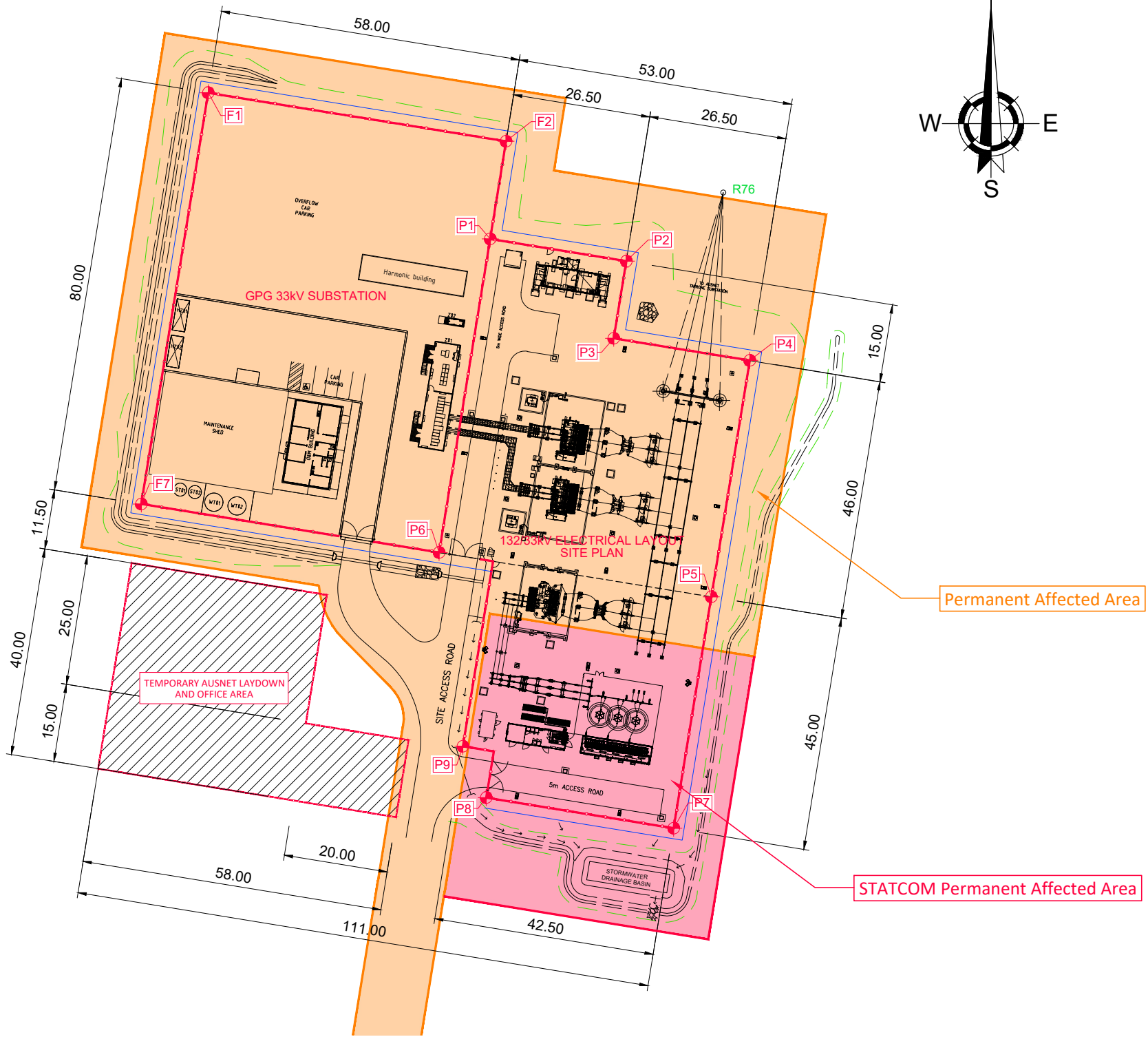
**RYAN CORNER WIND FARM
CIVIL WORKS
MISCELLANEOUS WORKS
GENERAL ARRANGEMENT**

A1 DOCUMENT NUMBER
Project Number Sheet No. Rev.

Design EN Drawn EN
RCWF-WGA-CI-DR-0410 0

P:\JOB\2020\201\003 - Ryan Corner Wind Farm\Drawings\RCWF-WGA-CI-DR-0410.dwg, 0.23.03.2021 3:31 PM, B. Singh



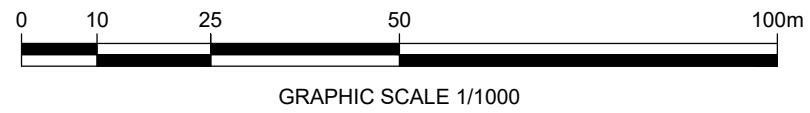


Ryan Corner WF Substation - Fence Setout		
POINT ID	GDA94 - MGA Zone 54 Coordinates (m.)	
	Eastings (X)	Northings (Y)
F1	598433.0447	5761833.8340
F2	598490.2903	5761824.5098
F7	598420.1837	5761754.8745
P1	598487.2540	5761805.7593
P2	598513.4093	5761801.4992
P3	598510.9797	5761786.6919
P4	598537.1350	5761782.4317
P5	598529.7400	5761737.0300
P6	598477.4294	5761745.5503
P7	598522.5058	5761692.6153
P8	598486.4805	5761698.4831
P9	598482.0054	5761708.3306

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

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Sheet 8 of 31

Signed: *[Signature]* for
MINISTER FOR PLANNING
Date: 17 August 2023



Reference Drawings:
AusNet (Site Plan): RCCS-0337070-001 Rev. A.7 (16.03.23)
RJE (33kV Substation): 1808-321-0001 Rev. 0 (23.01.23)

Notes:
Dimensions in meters (m.)

IT.05093.ES-TI-FO.12-EN

Ed.	Date	Design.	Pr.Eng.	Revis.	Appr.	Issued For	Ed.	Date	Design.	Pr.Eng.	Revis.	Appr.	Issued For
1	11/04/23	SAM	SAM	DHJM	BMJ	INFORMATION							

SCALE: INDICATED

Ryan Corner Development Pty Ltd

PROJECT: **RYAN CORNER WIND FARM**

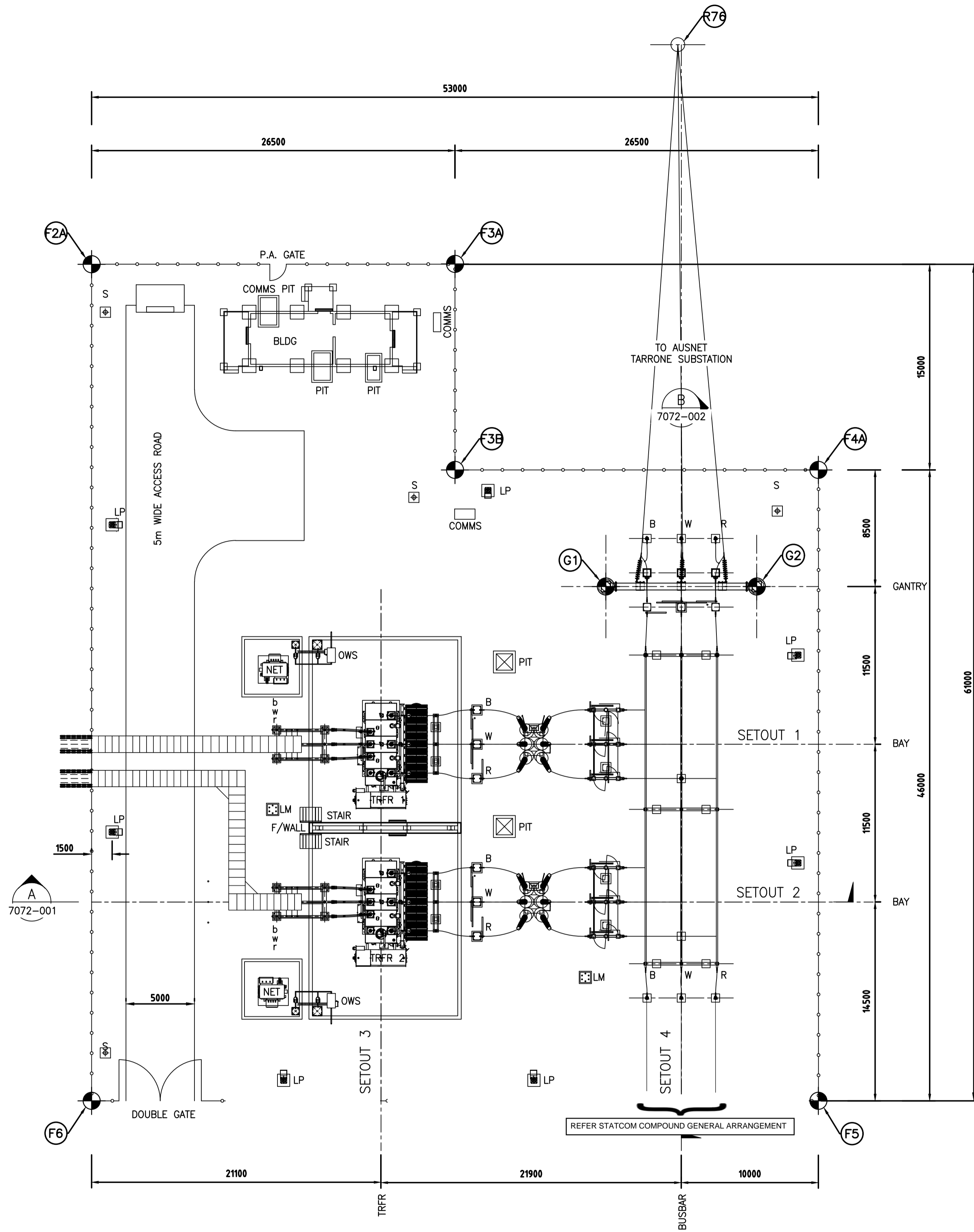
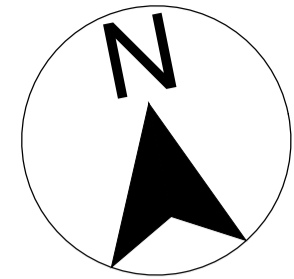
DRAWING TITLE: **SUBSTATION LAYOUT**

GPG
Naturgy Group

GPG CODE: **RCCS-GPG-001**

SHEET NEXT

CUST. CODE:



PLAN
SCALE 1:200

NOTES:

- 1) ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- 2.1) MINIMUM 132kV (650kVp B.I.L.) ELECTRICAL CLEARANCES IN ACCORDANCE WITH AS 2067 (TABLE 3.1)
 - a) BETWEEN PHASES 1495mm
 - b) BETWEEN PHASE TO EARTH (PH TO E) 1300mm
 - c) GROUND SAFETY CLEARANCE 2440mm
 - d) SECTION CLEARANCE 3870mm
- 2.2) MINIMUM 33kV (200kVp B.I.L.) ELECTRICAL CLEARANCES IN ACCORDANCE WITH AS 2067 (TABLE 3.1)
 - a) BETWEEN PHASES 440mm
 - b) BETWEEN PHASE TO EARTH (PH TO E) 380mm
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 - d) SECTION CLEARANCE 2860mm
- 3.1) EQUIPMENT INTERCONNECTION 132kV
132kV BUSBAR INTERPLANT \varnothing 100x6mm SINGLE VENUS
- 3.2) EQUIPMENT INTERCONNECTION 33kV
33kV BUSBAR INTERPLANT \varnothing 125x10mm TRIPLE VENUS
- 4) 132kV FAULT LEVEL STRUCTURAL DESIGN = 31.5kA, 1 sec
33kV FAULT LEVEL STRUCTURAL DESIGN = 25kA, 1 sec

LEGEND

- LM (E10) LIGHTNING MAST - 20m
- LP (E11) LIGHT POLE - SEESAW TYPE - 10m - 1 LIGHT
- NET (E6) NEUTRAL EARTHING TRANSFORMER
- BLDG (C1) CONTROL BUILDING
- s (E12) SECURITY CAMERA POLE
- OWS OIL WATER SEPARATOR - 10000lt/hr

COORDINATE SYSTEM
GDA94/ MGA ZONE 54

G1
X= 598520.4883
Y= 5761776.5364

G2
X= 598531.3453
Y= 5761774.7681

F2A
X= 598487.254
Y= 5761805.7593

F3A
X= 598513.4093
Y= 5761801.4992

F3B
X= 598510.9797
Y= 5761786.6919

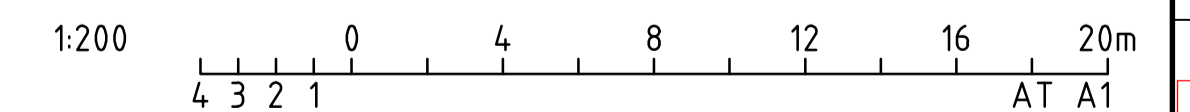
F4A
X= 598537.135
Y= 5761782.4317

F5
X= 598529.74
Y= 5761737.03

F6
X= 598477.4294
Y= 5761745.5504

COORDINATE SYSTEM
GDA94/ MGA ZONE 54

R76
X= 598532.00
Y= 5761814.70



PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME
PERMIT NO. 2006/0222-2
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Sheet 9 of 31
Mojibullah
Signed for
MINISTER FOR PLANNING
Date: 17 August 2023

REFERENCE DRAWINGS		REVISION				SUBSTATION RCCS - RYAN CORNER CLTR STATION 132/33kV ELECTRICAL SUBSTATION PLAN	
DRAWING TITLE	DRAWING No.	DATE	REV	BY	CONTRACTOR	Spec No. Order No.	Legacy No.
						Contractors No. Drawing No.	
						Manuf No.	RCCS-0337071-001

FOR REVIEW

AusNet_Services STD_A1

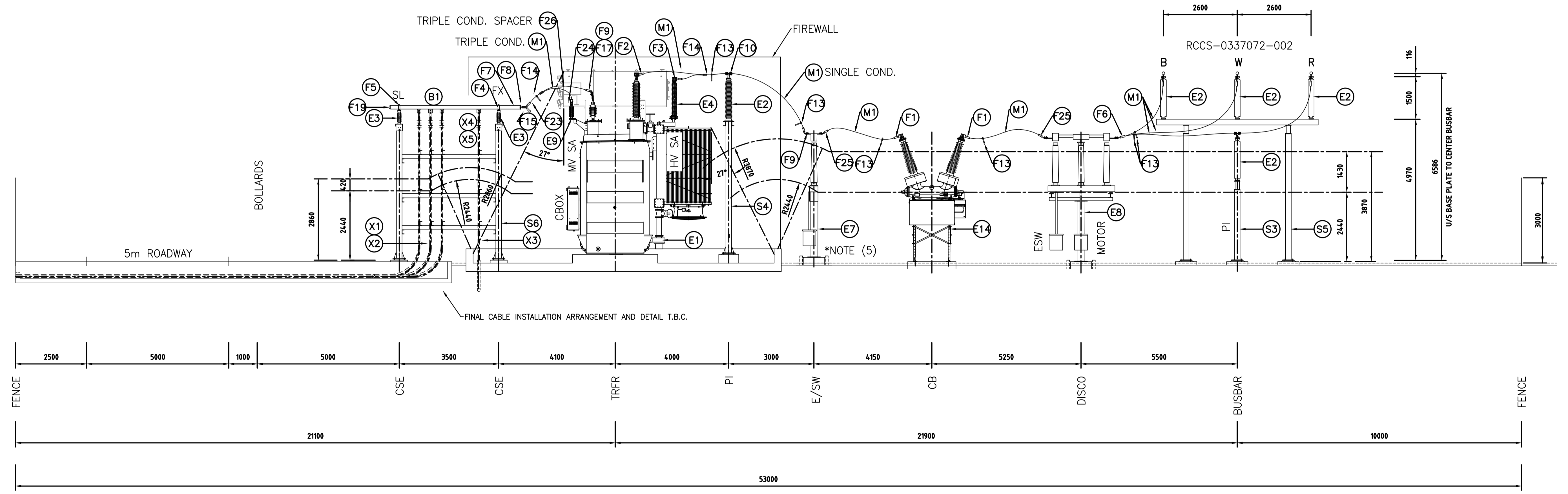
**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

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Sheet 10 of 31

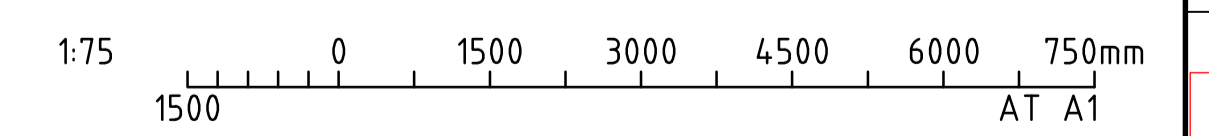
Signed *[Signature]* for
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132kV BUSBAR INTERPLANT \varnothing 100x6mm SINGLE VENUS
- 3.2) EQUIPMENT INTERCONNECTION 33kV
33kV BUSBAR INTERPLANT \varnothing 125x10mm TRIPLE VENUS
- 4) 132kV FAULT LEVEL STRUCTURAL DESIGN = 31.5kA, 1 sec
33kV FAULT LEVEL STRUCTURAL DESIGN = 25kA, 1 sec
- 5) LEVEL OF EARTHSWITCH FOOTING TO BE DETERMINED BASED ON FINAL SURFACE LEVELS IN ORDER TO ACHIEVE REQUIRED SAFETY CLEARANCES



ELEVATION A
SCALE 1:75 7071-001



REFERENCE DRAWINGS		REVISION				SUBSTATION RCCS - RYAN CORNER CLTR STATION 132/33kV ELECTRICAL SUBSTATION TYPICAL TRANSFORMER BAY ELEVATION	
DRAWING TITLE	DRAWING No.	DATE	REV	DESCRIPTION	BY	CONTRACTOR	Spec No. Order No. Legacy No. Spec/Quote Contractors No. Drawing No. Manuf No.
							RCCS-0337072-001 A.2a

[UNCONTROLLED WHEN PRINTED]

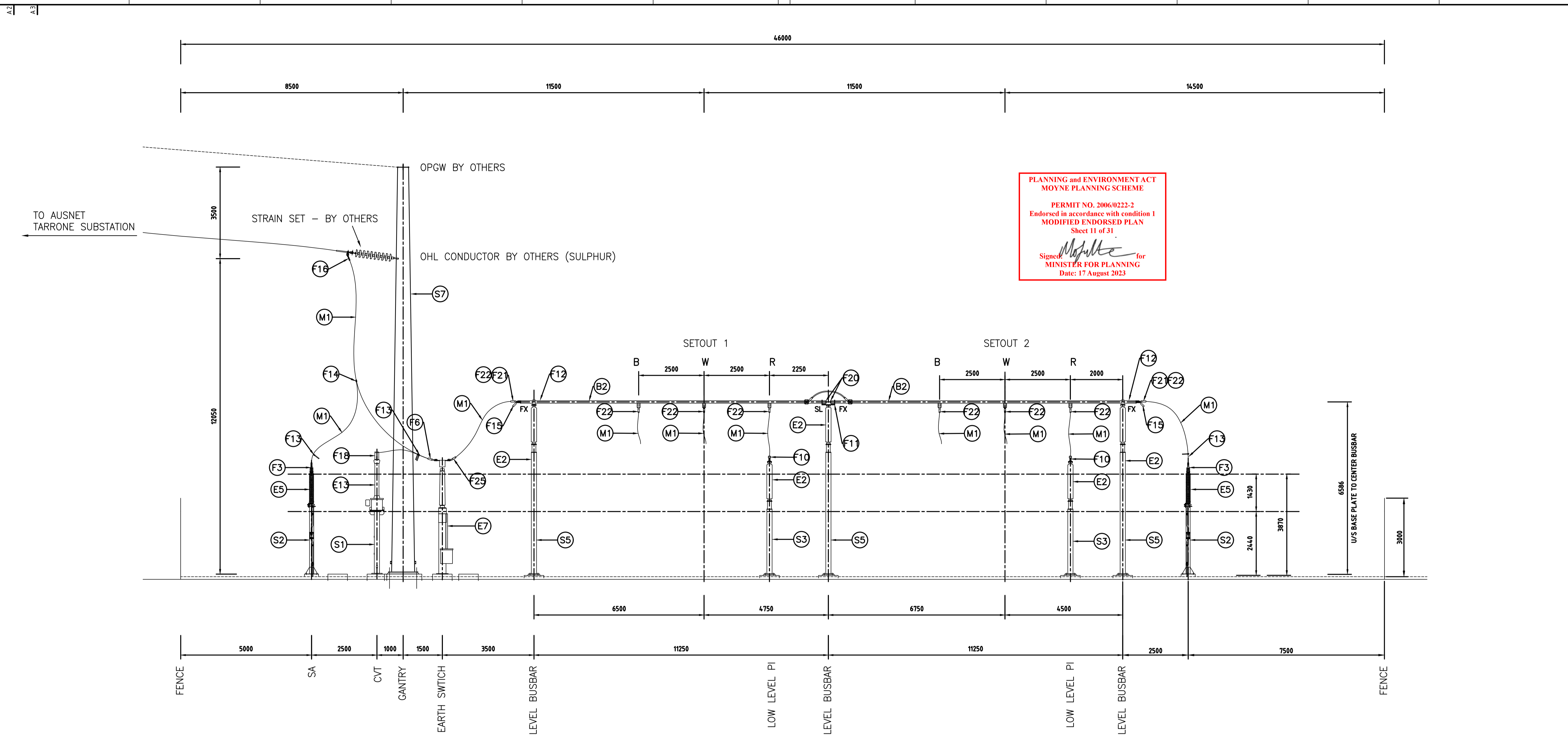
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FOR REVIEW

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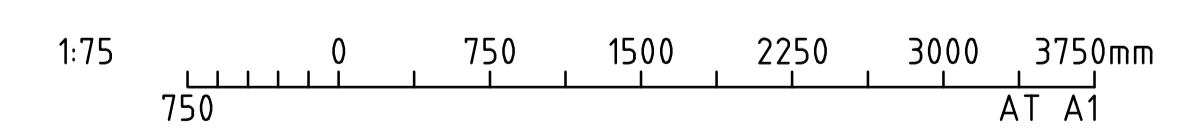


PLANNING and ENVIRONMENT ACT
 MOYNE PLANNING SCHEME
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 Sheet 11 of 31
 Signed: *[Signature]* for
 MINISTER FOR PLANNING
 Date: 17 August 2023

NOTES:

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- 3.2) EQUIPMENT INTERCONNECTION 33kV
 33kV BUSBAR INTERPLANT ϕ 125x10mm TRIPLE VENUS
- 4) 132kV FAULT LEVEL STRUCTURAL DESIGN = 31.5kA, 1 sec
 33kV FAULT LEVEL STRUCTURAL DESIGN = 25kA, 1 sec

ELEVATION B
 SCALE 1:75 7071-001



REFERENCE DRAWINGS	DRAWING TITLE		DRAWING No.		REVISION	DATE	REV	DESCRIPTION	BY	CONTRACTOR		SUBSTATION RCCS - RYAN CORNER CLTR STATION		
	DRAWING No.		DATE									132/33kV ELECTRICAL SUBSTATION TYPICAL BUSBAR ELEVATION		
ISSUED DATE: _____ Spec No.: _____ Order No.: _____ Legacy No.: _____ ENDORSED DATE: _____ Spec/Quote: _____ Contractors No.: _____ Drawing No.: _____ ISSUED DATE: _____ Spec/Quote: _____ Contractors No.: _____ Drawing No.: _____											RCCS-0337072-002		A.2a	

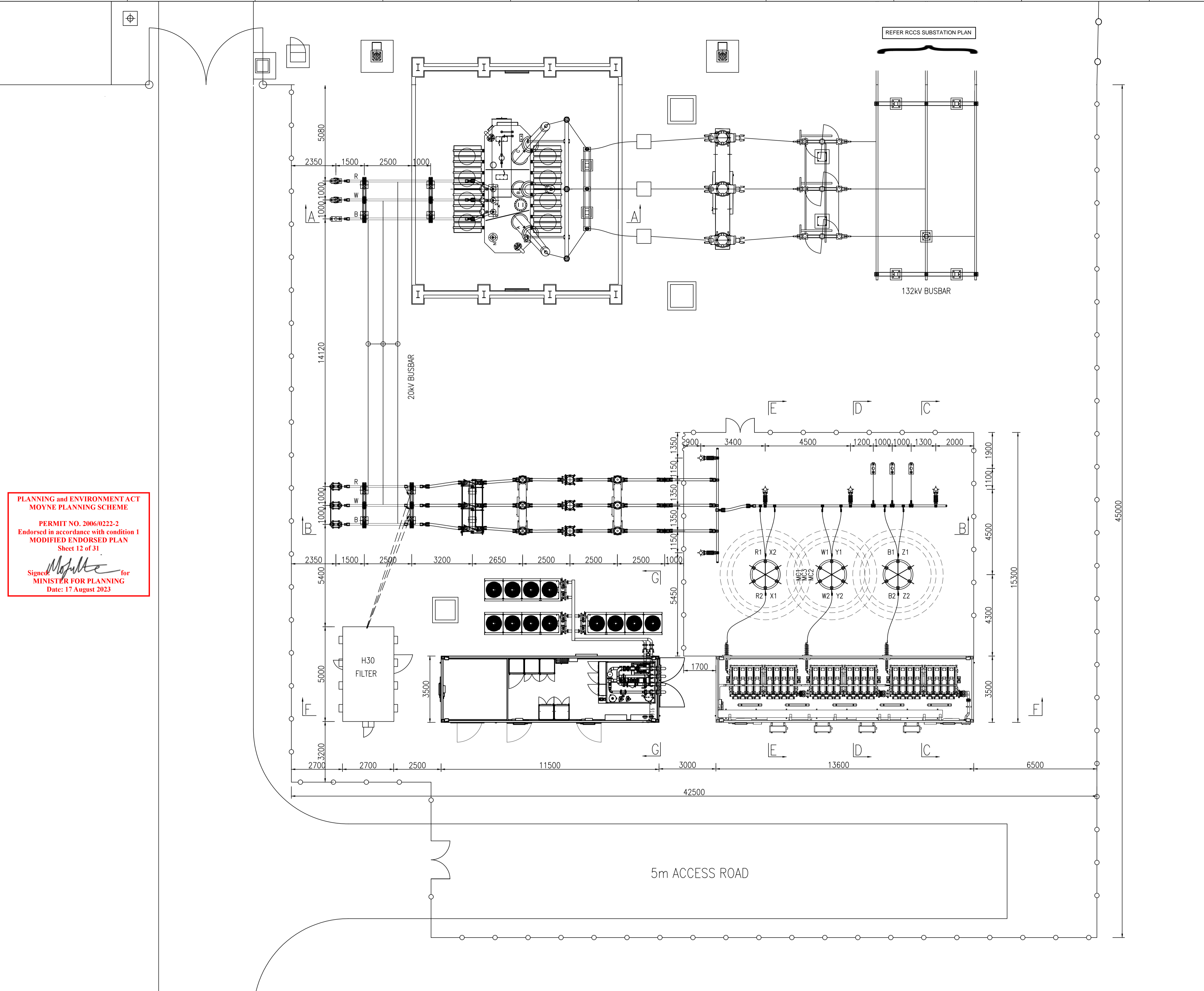
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FOR REVIEW

AusNet Services STD. A1

DIMENSIONS AS SHOWN, DO NOT SCALE.



REFER RCCS SUBSTATION PLAN

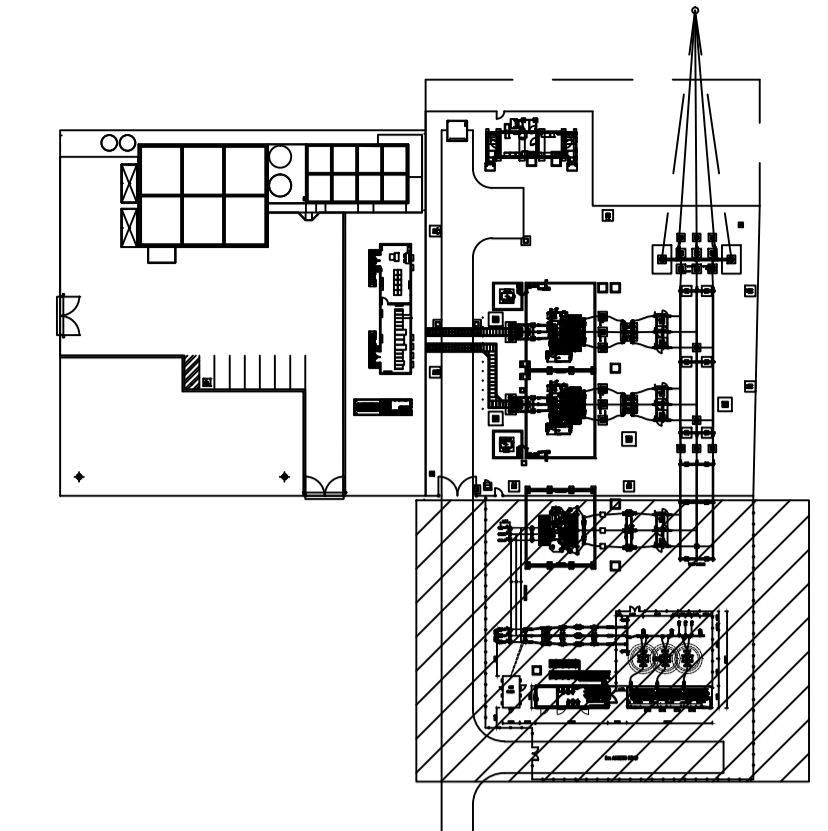
132kV BUSBAR

20kV BUSBAR

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

 PERMIT NO. 2006/0222-2
 Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
 Sheet 12 of 31

 Signed: *[Signature]* for
MINISTER FOR PLANNING
 Date: 17 August 2023



20/132kV SUBSTATION GENERAL ARRANGEMENT

EQUIPMENTS LEGEND

SYMBOL	DESCRIPTION
	TRANSFORMER
	STATCOM VALVE CONTAINER
	STATCOM CONTROL CONTAINER
	HEAT EXCHANGER
	CURRENT TRANSFORMER
	VOLTAGE TRANSFORMER
	SURGE ARRESTER
	AIR-CORE REACTOR
	DISCONNECTER SWITCH
	CIRCUIT BREAKER
	CHARGE RESISTOR
	FENCE
	CABLE PIT
	TUBULAR BUSBAR

ELECTRICAL CLEARANCE

	132kV	20kV
HIGHEST SYSTEM VOLTAGE	132kV	20kV
MINIMUM CLEARANCE PHASE TO EARTH	1300mm	280mm
MINIMUM CLEARANCE PHASE TO PHASE	1495mm	325mm
GROUND SAFETY CLEARANCE	2440mm	2440mm
MINIMUM HEIGHT OF LIVE PARTS OVER ACCESS AREA	3870mm	2750mm

- * THE CLEARANCE IS IN ACCORDANCE WITH AS 2067:2016.
- NOTES:
1. THE DIMENSIONS ARE IN MILLIMETRE.
 2. REFERENCE OUTDOOR FINAL PLATFORM LEVEL IS ±0.00mm.
 3. FENCE DISCONNECTIONS POINTS, THE FENCE HEIGHT 2m, MESH HOLE LESS THAN 40mmX40mm, STANDARD CARBON STEEL MATERIAL. EACH BRANCH FENCE HAS ONE DISCONNECTIONS POINT, SEPARATED BY NON-MAGNETIC AND NON-CONDUCTING MATERIAL, PREVENTS THE FENCE FROM FORMING A CLOSED LOOP TO GENERATE INDUCED CURRENT, THE DISCONNECTION POSITION POINT IS SHOWN IN THE DRAWING.
 4. THE SPACE WITHIN THE MAGNETIC CLEARANCE CONTOUR, PRESCRIBED BY MC1 SHALL NOT CONTAIN METALLIC PARTS. FOR LARGER METALLIC STRUCTURES, SUCH AS CONCRETE REBAR, GROUNDING WIRING AND FENCING THE DISTANCES MC2 SHOULD BE KEPT. CONDUCTIVE LOOPS SURROUNDING THE REACTOR IN MOST CASES SHOULD BE AVOIDED AND ELECTRICAL CLEARANCES TO CONDUCTIVE PARTS MUST BE MAINTAINED.
 5. MC3 MAGNETIC CLEARANCE OCCUPATIONAL EXPOSURE LIMIT.
 6. MAINTENANCE ACCESS WILL NEED TO CONSIDER CRANE POSITIONS DUE TO LIMITED SPACE AND EXPECTED REACH REQUIREMENTS.

REV	DESCRIPTION	DRN	DES	RVD	APP	DATE
A	Concept Design - Issued for Review	JW	JW	WW	SH	02/2023

REVISION DETAILS

RXHK
 Rongxin Huiko Electric Co., Ltd
 +86 400-616-7077 www.rxhk.co.uk enquiries@rxhk.com

DRAWN	Jue Wang	02/2023
DESIGNED	Jue Wang	02/2023
REVIEWED	Wei Wang	02/2023
APPROVED	Shi He	02/2023
SCALE: 1:150	PROJECT No:	

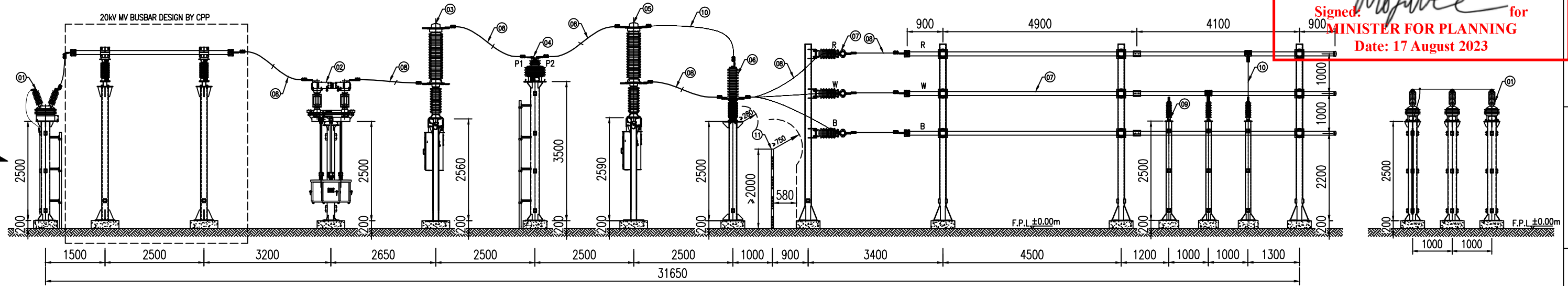
RYAN CORNER WIND FARM
 STATCOM
 COMPOUND
 GENERAL ARRANGEMENT

SHEET 1 OF 1

DRAWING No: A1 XXXXX
 REV: A

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Signed: *Mojib* for
MINISTER FOR PLANNING
Date: 17 August 2023



B-B SECTION DRAWING

1-1 VIEW

NO.	EQUIPMENT NAME	SPECIFICATION	UNIT	QTY.	REMARK	NO.	EQUIPMENT NAME	SPECIFICATION	UNIT	QTY.	REMARK
1	VT	JDZXW-24RG 20/√3:0.11/√3,0.11/3	PC	3		20					WITH 304 STAINLESS STEEL BOLT
2	DISCONNECTOR SWITCH	GW4-24 DD(W)/2500A	PC	1		21					
3	MAIN CIRCUIT BREAKER	2500A-25kA	SET	1		22					
4	CT	LZZW3-20Q 2500/5 0.5/5P20/5P20	SET	3		23					
5	BYPASS CIRCUIT BREAKER	2500A-25kA	SET	1		24					
6	CHARGING RESISTOR	34kV/1s 350kJ	SET	3		25					
7	TUBULAR BUSBAR	Al-Mg-Si 6063,φ100/90	PC	1	6.5m/12PCS	26					
8	AAC	JNRLH60-500,φ=29.1mm	m	120		27					
9	SURGE ARRESTER	YH5WZ-32/85 2ms 600A	SET	3		28					
10	AAC	JL-125,φ=14.5mm	m	6		29					
11	FENCE	MESH IS NOT LESS THAN 40x40mm, HEIGHT>2m	SET	1		30					
12						31					
13						32					
14						33					
15						34					
16						35					
17						36					
18						37					
19						38					

NOTES:
1. THE DIMENSIONS ARE IN MILLIMETER.
2. F.P.L: FINAL PLATFORM LEVEL.

REFERENCE DRAWING: STATCOM Compound General Arrangement.



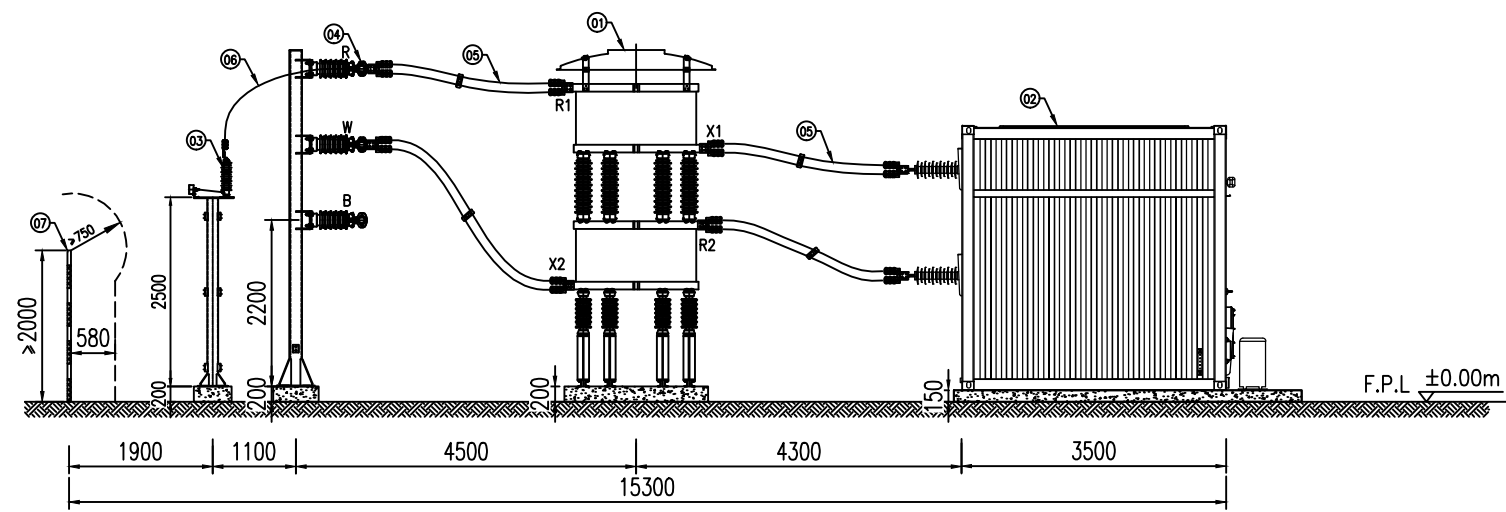
DRAWN			Jue Wang	02/2023
DESIGNED			Jue Wang	02/2023
REVIEWED			Wei Wang	02/2023
APPROVED			Shi He	02/2023
SCALE: 1:100		PROJECT No:		
A3		XXXXXXXX		

REV	DESCRIPTION	DRN	DES	RVD	APP	DATE
A	Concept Design - Issued for Review	JW	JW	WW	SH	02/2023

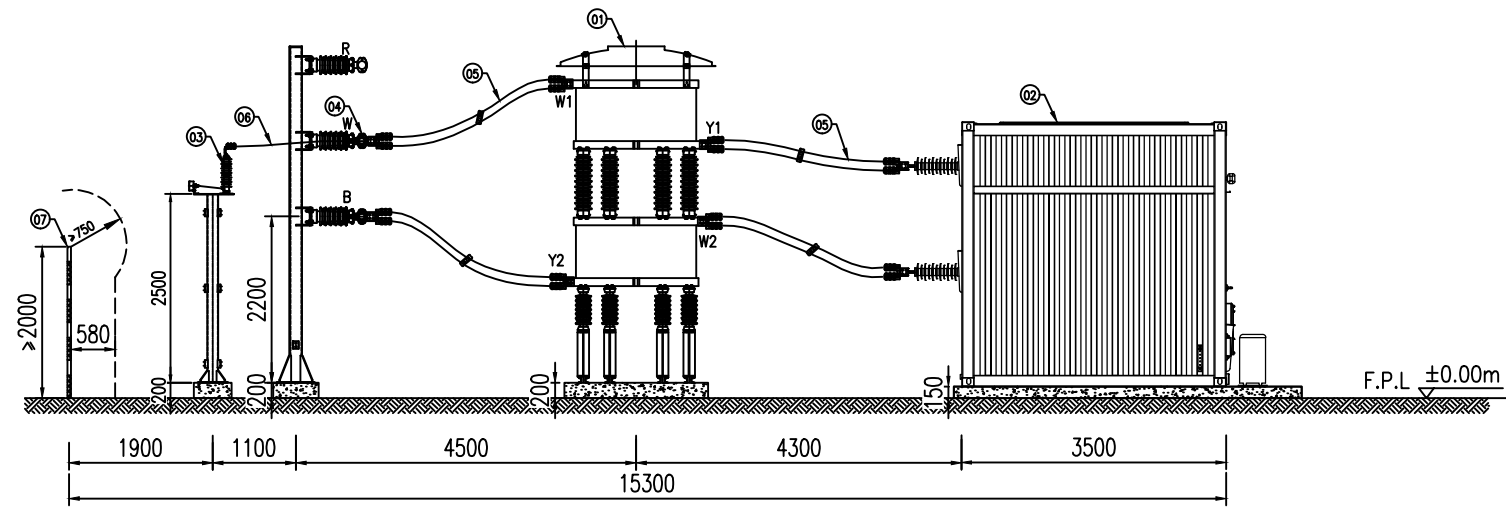
RYAN CORNER WIND FARM
STATCOM
SECTION
B-B DRAWING
SHEET 1 OF 3

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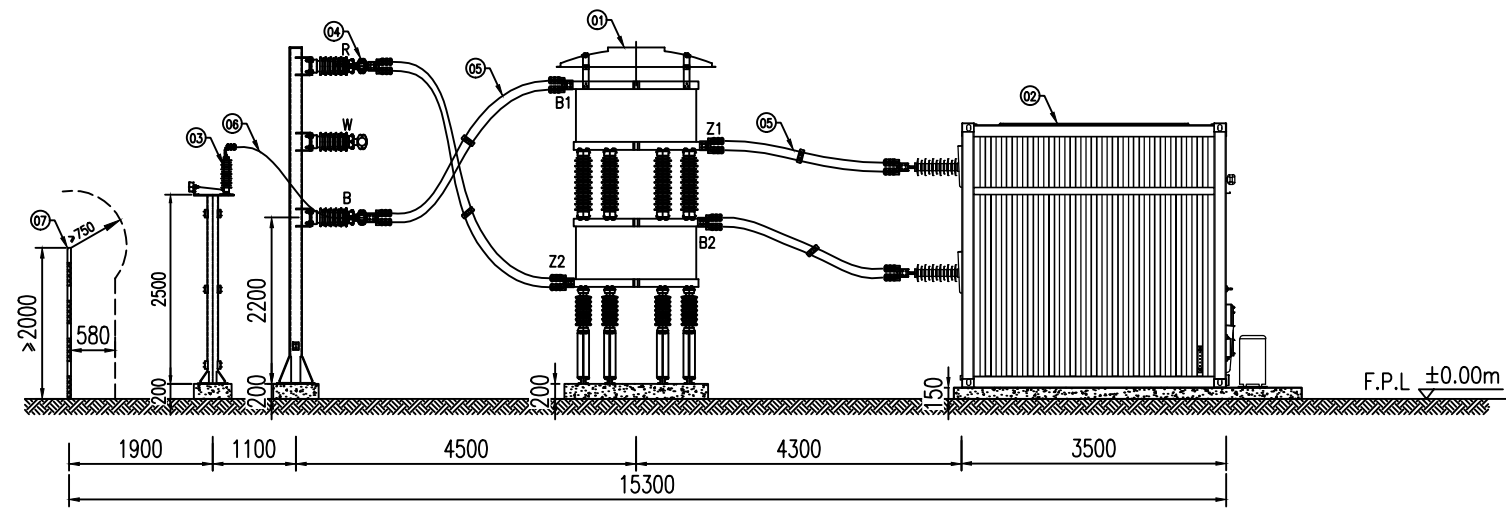
DIMENSIONS AS SHOWN, DO NOT SCALE.



C-C SECTION DRAWING



D-D SECTION DRAWING



E-E SECTION DRAWING

NO.	EQUIPMENT NAME	SPECIFICATION	UNIT	QTY.	REMARK
1	STATCOM REACTOR	CKGKL-20-2X3.82mH-1000A	PC	3	
2	STATCOM VALVE CONTAINER		PC	1	
3	SURGE ARRESTER	YH5WZ-32/85 2ms 600A	SET	3	
4	TUBULAR BUSBAR	Al-Mg-Si 6063, φ100/90	PC	1	
5	AAC	JL-560, φ=30.7mm	m	102	
6	AAC	JL-125, φ=14.5mm	m	6	
7	FENCE	MESH IS NOT LESS THAN 40x40mm, HEIGHT>2m	SET	1	
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

NOTES:
 1. THE DIMENSIONS ARE IN MILLIMETER.
 2. F.P.L: FINAL PLATFORM LEVEL

**PLANNING and ENVIRONMENT ACT
 MOYNE PLANNING SCHEME**

PERMIT NO. 2006/0222-2
 Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
 Sheet 14 of 31

 Signed: *Mofulte* for
MINISTER FOR PLANNING
 Date: 17 August 2023

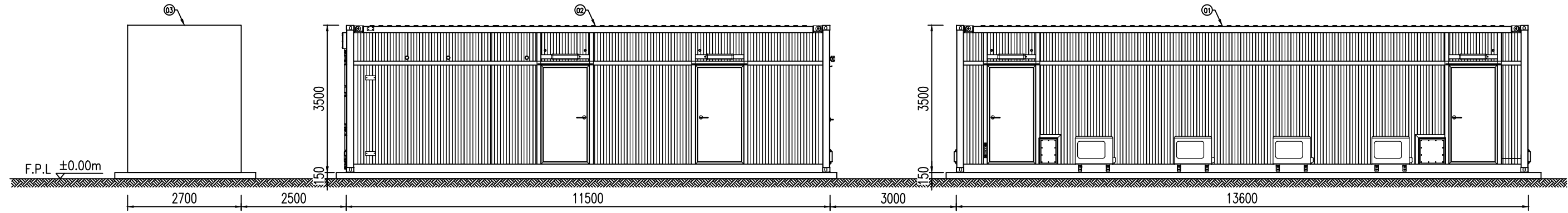
REFERENCE DRAWING: STATCOM Compound General Arrangement.

REV	DESCRIPTION	DRN	DES	RVD	APP	DATE
A	Concept Design - Issued for Review	JW	JW	WW	SH	02/2023

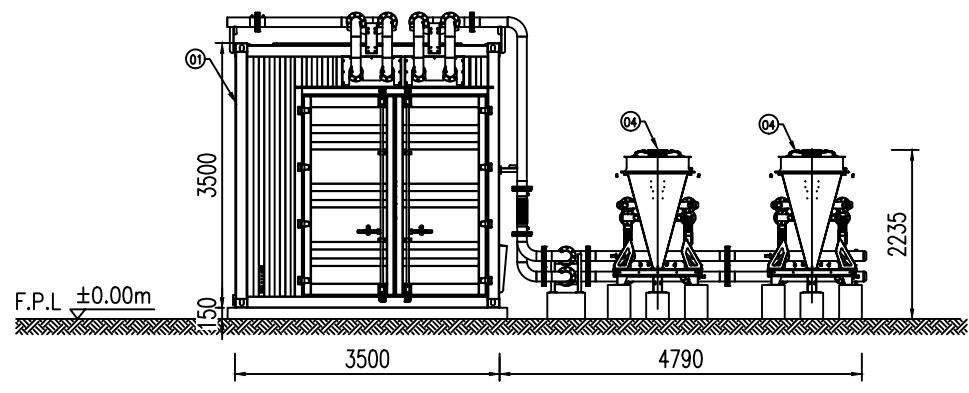


DRAWN: Jue Wang 02/2023 DESIGNED: Jue Wang 02/2023 REVIEWED: Wei Wang 02/2023 APPROVED: Shi He 02/2023 SCALE: 1:100 PROJECT No:	RYAN CORNER WIND FARM STATCOM SECTION C-C D-D E-E DRAWING	SHEET 2 OF 3 DRAWING No: A3 XXXXXXXX REV: A
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DIMENSIONS AS SHOWN, DO NOT SCALE.
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F-F SECTION DRAWING



G-G SECTION DRAWING

NO.	EQUIPMENT NAME	SPECIFICATION	UNIT	QTY.	REMARK
1	STATCOM VALVE CONTAINER		PC	1	
2	STATCOM CONTROL CONTAINER		PC	1	
3	FILTER CONTAINER		PC	1	
4	HEAT EXCHANGER		PC	1	
5					
6					
7					
8					
9					
10					

NOTES:
 1. THE DIMENSIONS ARE IN MILLIMETER.
 2. F.P.L.: FINAL PLATFORM LEVEL.

**PLANNING and ENVIRONMENT ACT
 MOYNE PLANNING SCHEME**

PERMIT NO. 2006/0222-2
 Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
 Sheet 15 of 31

 Signed: *Mofulte* for
MINISTER FOR PLANNING
 Date: 17 August 2023

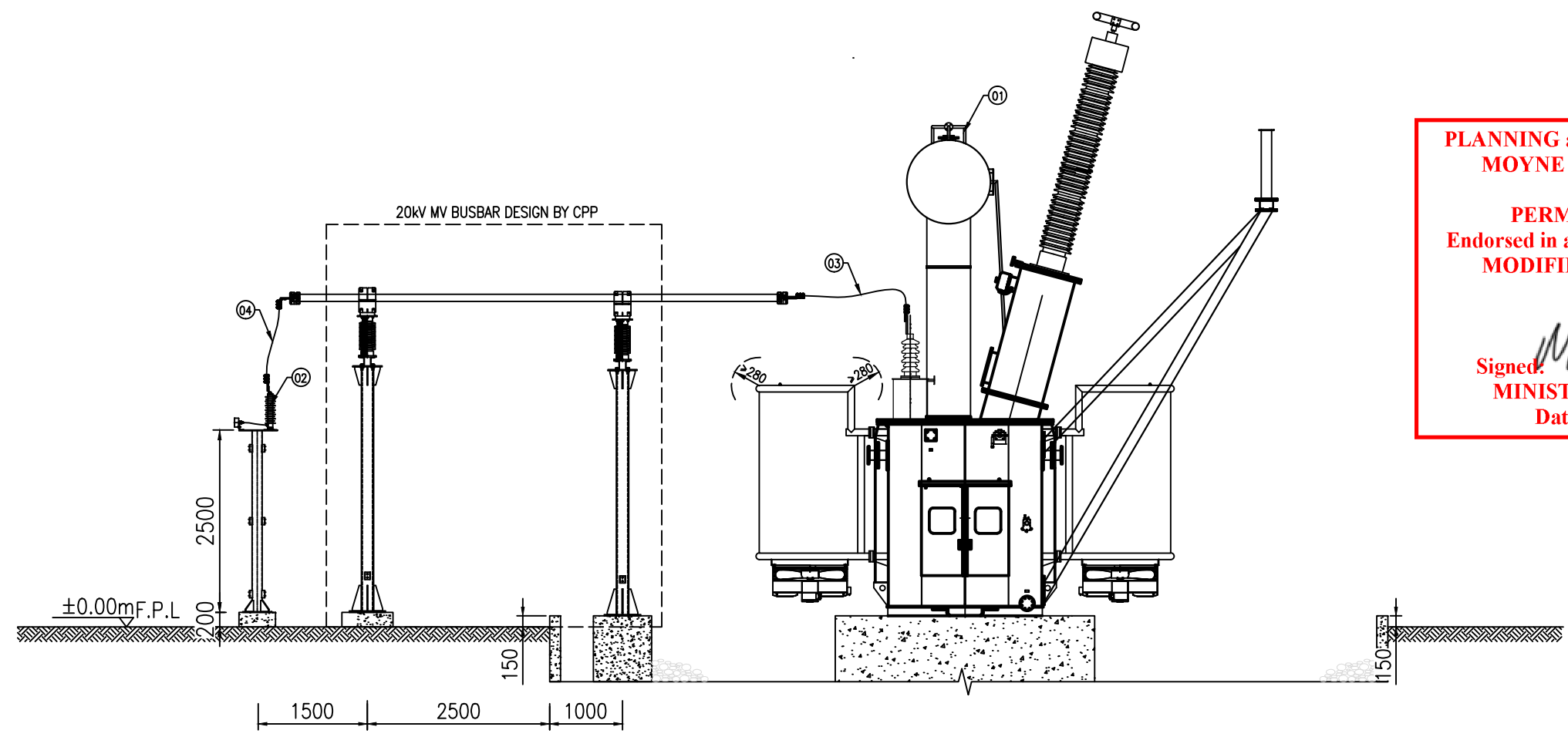
REFERENCE DRAWING: STATCOM Compound General Arrangement.

REV	DESCRIPTION	DRN	DES	RVD	APP	DATE
A	Concept Design - Issued for Review	JW	JW	WW	SH	02/2023



DRAWN: Jue Wang 02/2023 DESIGNED: Jue Wang 02/2023 REVIEWED: Wei Wang 02/2023 APPROVED: Shi He 02/2023			RYAN CORNER WIND FARM STATCOM SECTION F-F G-G DRAWING		SHEET 3 OF 3
SCALE: 1:100	PROJECT No:	A3	XXXXXXXX	REV	A

DIMENSIONS AS SHOWN, DO NOT SCALE



PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME

PERMIT NO. 2006/0222-2
 Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
 Sheet 16 of 31

 Signed: *Mojulite* for
MINISTER FOR PLANNING
 Date: 17 August 2023

A-A SECTION DRAWING

NO.	DESCRIPTION	SPECIFICATION AND MODEL	UNIT	QTY.	REMARKS	NO.	DESCRIPTION	SPECIFICATION AND MODEL	UNIT	QTY.	REMARKS
1	TRANSFORMER	132/20kV 75MVA YNd11 UK%=11	SET	1		11					
2	SURGE ARRESTER	YH5WZ-32/85 2ms 600A	SET	3		12					
3	AAC		m	12	DESIGN BY CPP	13					
4	AAC	JL-125,φ=14.5mm	m	12		14					
5						15					
6						16					
7						17					
8						18					
9						19					
10						20					

NOTES:
 1. THE DIMENSIONS ARE IN MILLIMETER.
 2. F.P.L: FINAL PLATFORM LEVEL

REFERENCE DRAWING: STATCOM Compound General Arrangement.

REV	DESCRIPTION	DRN	DES	RVD	APP	DATE
A	Concept Design - Issued for Review	JW	JW	WW	SH	02/2023



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DRAWN	Jue Wang	02/2023
DESIGNED	Jue Wang	02/2023
REVIEWED	Wei Wang	02/2023
APPROVED	Shi He	02/2023

RYAN CORNER WIND FARM
STATCOM
SECTION
A-A DRAWING

SHEET 1 OF 1

A3 XXXXXXXX

REV A

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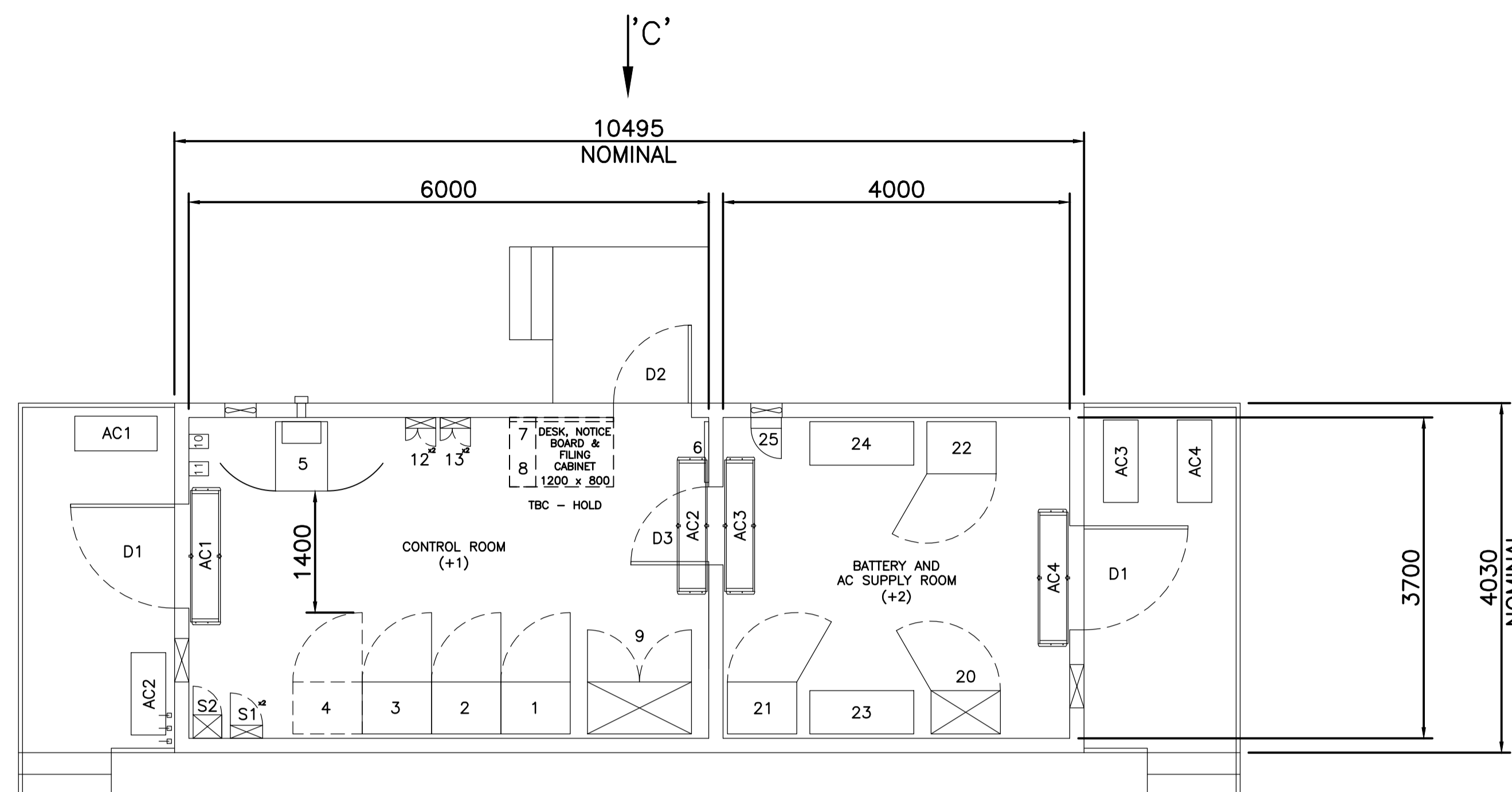
CONTROL CUBICLES AND EQUIPMENT		
CONTROL ROOM (+1)		DIM. (WxDxH)
1	+1D01	132kV TRTS LINE 'X' AND 'Y' PROTECTION PANEL (BY AUSNET) 800x600x2200
2	+1TF1	132/33kV TRANSFORMER 1 'X' AND 'Y' PROTECTION PANEL 800x600x2200
3	+1TF2	132/33kV TRANSFORMER 1 'X' AND 'Y' PROTECTION PANEL 800x600x2200
4		SPARE FOR FUTURE 800x600x2200
5	+1X01	MUX / COMMS PANEL (BY AUSNET) 800x600x2300
6		KEYBOARD
7		NOTICE BOARD TBC - HOLD
8		DESK WITH FILING CABINET
9		+1X05 MARSHALLING PANEL (ITC) 1200x600x2430
10		FIRE DETECTION SYSTEM
11		SECURITY KEYPAD
12		FIBRE OPTIC TERMINATION BOX A&B TO RCWF (BY GPG) 2 OFF (1x2)
13		FIBRE OPTIC TERMINATION BOX A&B TO RCWF (BY GPG) 2 OFF (1x2)

BATTERY AND AC SUPPLY ROOM (+2)		DIM. (WxDxH)
20	+2H01	400V AC CHANGEOVER & DISTRIBUTION BOARD 800x500x2100
21	+2J01	125V DC 'X' BATTERY CHARGER + DISTRIBUTION 800x600x2400
22	+2J02	125V DC 'Y' BATTERY CHARGER + DISTRIBUTION 800x600x2400
23	+2J03	125V DC 'X' BATTERY BANK 1200x500x2100
24	+2J04	125V DC 'Y' BATTERY BANK 1200x500x2100
25	+2H02	400V AC BUILDING SUB-DISTRIBUTION TBC

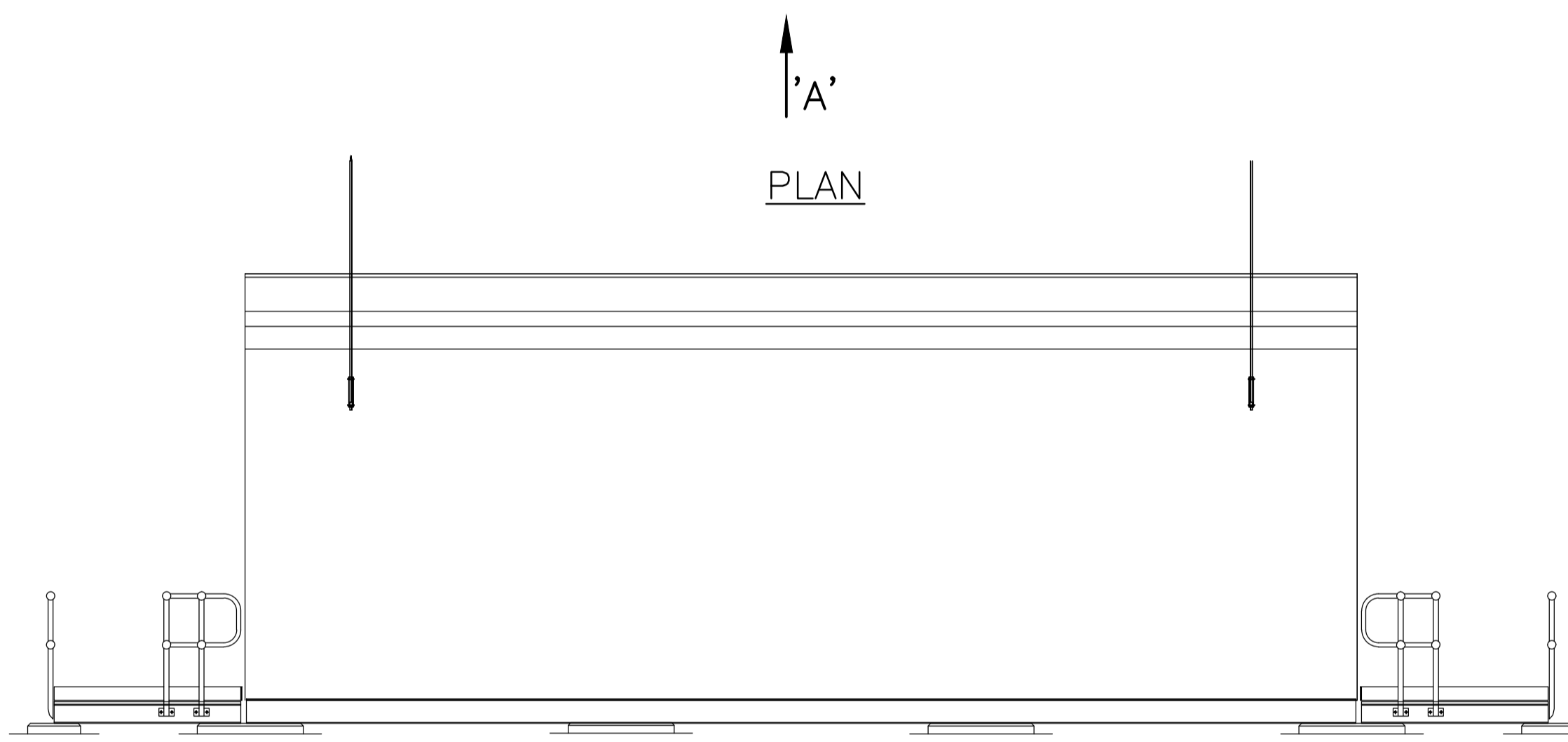
BUILDING AIR CONDITIONING	
AC1	+1U01 CONTROL ROOM AIR CONDITIONER AND CONDENSER 1
AC2	+1U02 CONTROL ROOM AIR CONDITIONER AND CONDENSER 2
AC3	+2U01 AC/DC ROOM AIR CONDITIONER AND CONDENSER 1
AC4	+2U02 AC/DC ROOM AIR CONDITIONER AND CONDENSER 2

SECURITY	
S1	SECURITY WALL PANEL (ROYAL EAGLE) 2 OFF
S2	WALL MK (AUSNET)

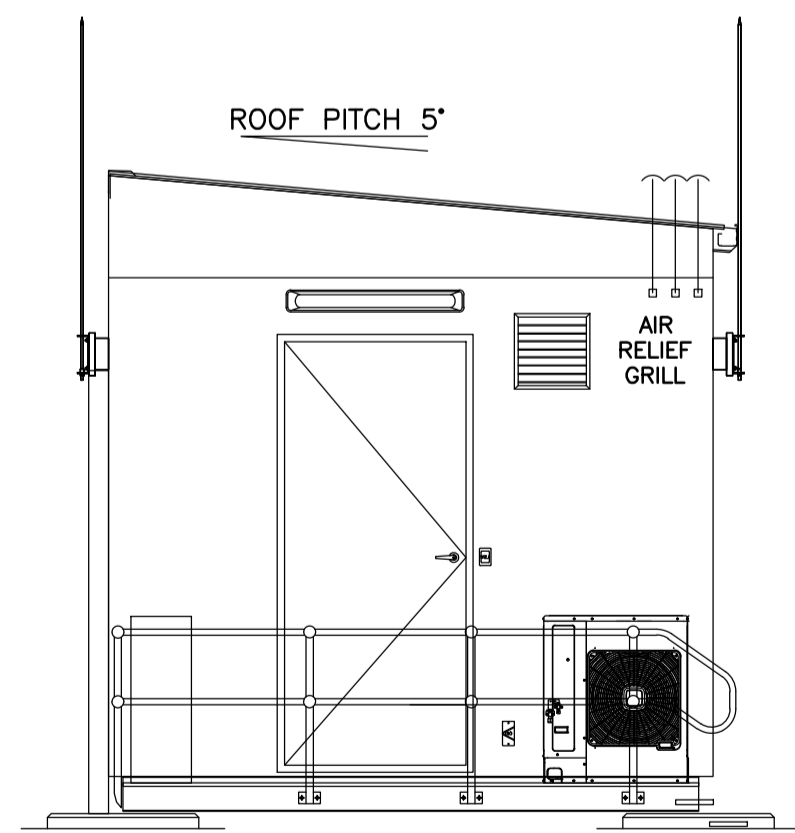
- DOORS:
- D1 - 1200 x 2800mm
 - D2 - 900 x 2400mm
 - D3 - 900 x 2100mm (INTERNAL)
 - ☒ - FLOOR PENETRATION



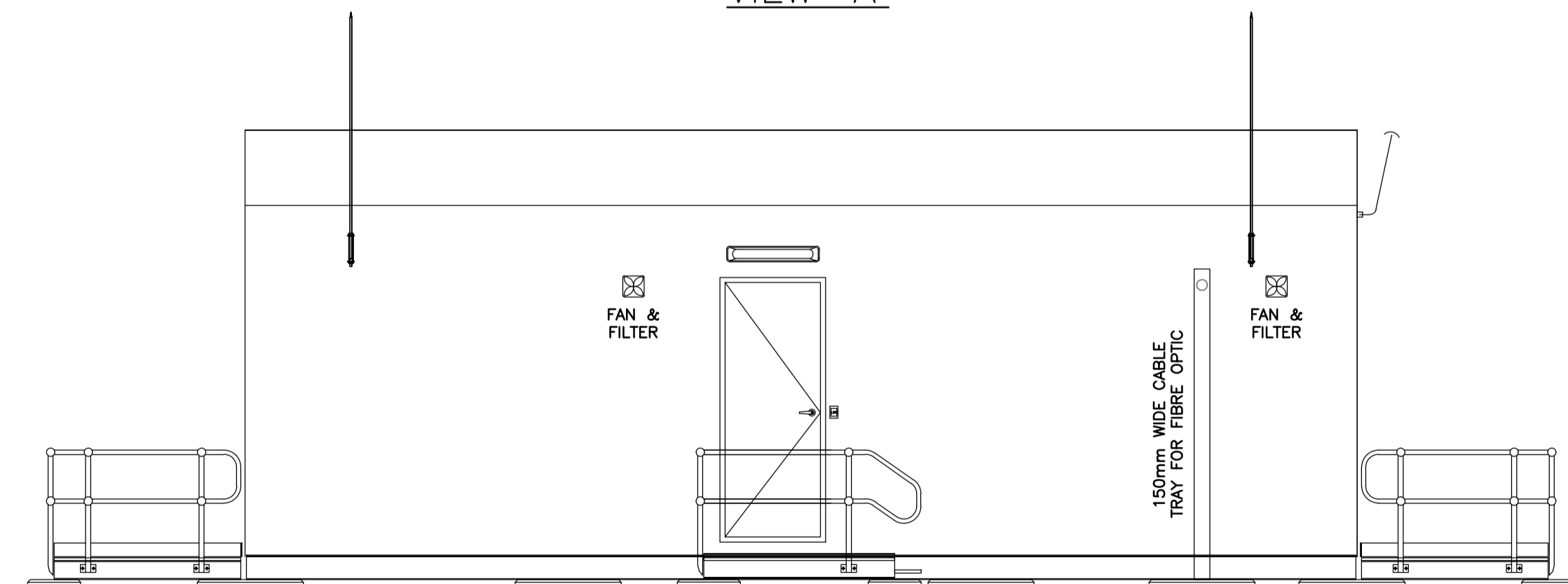
PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME
 PERMIT NO. 2006/0222-2
 Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
 Sheet 17 of 31
 Signed: *[Signature]* for
MINISTER FOR PLANNING
 Date: 17 August 2023



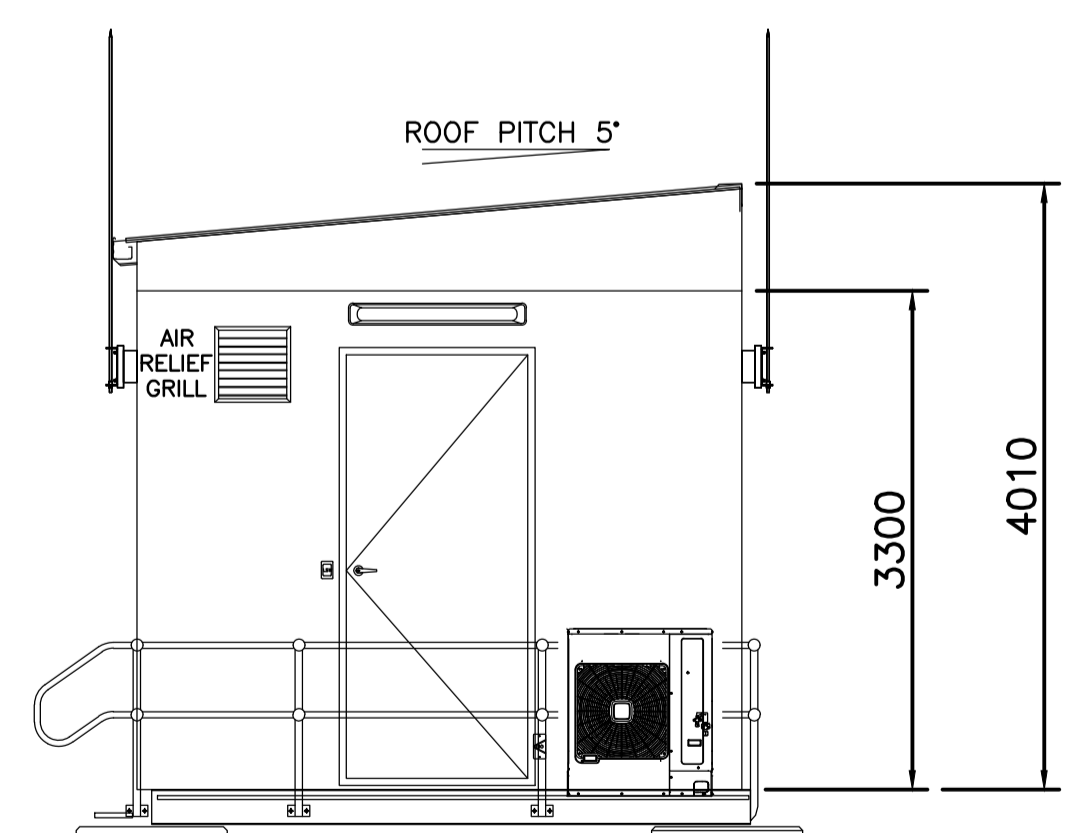
VIEW 'A'



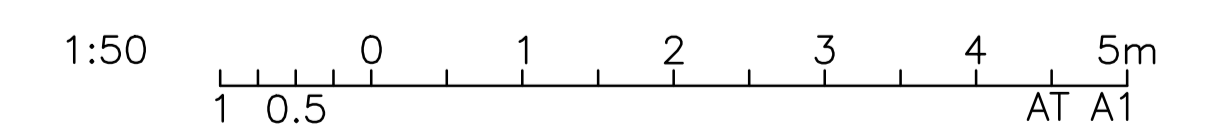
VIEW 'B'



VIEW 'C'



VIEW 'D'



REFERENCE DRAWINGS	REVISION	DATE	REV	DESCRIPTION	BY	CONTRACTOR	ENDORSED DATE	ISSUED	Spec No. / Order No. / Legcy No.	Contractors No. / Drawing No.
								SUBSTATION RCCS - RYAN CORNER CLTR STATION CONTROL BUILDING PLAN AND ELEVATIONS		
<small>DRAWN: J.AUTON</small> <small>ENDORSED: REW 2a</small>								<small>Spec No. / Order No. / Legcy No.</small> <small>Contractors No. / Drawing No.</small>		
DRAWING TITLE								DRAWING No.		RCCS-0337081-001

FOR REVIEW

AusNet_Services STD_A1

Ryan Corner Wind Farm

Proposed Finishes of On-site Buildings

The substation at Ryan Corner Wind Farm will include seven buildings and a fence as follows:

Building	External Color	
Maintenance Shed	Surfmist	
Operation Building (As per Figure 1 and Figure 2)	Surfmist and as shown in figures below	
Switch Room	Baseframe	Surfmist
	External Walls	
	Roof	
	External Doors	
	Finishing and Trim	
	Handrails	Black Steel, painted yellow
Control Room (Refer to Figure 3 for example and Figure 4 for color specifications)	Columns	Hot dip galvanized
	Walls Cladding	Standard Colourbond Low-Rib Profile.42 BMT – Stratco Smart span–Colour RAL 9001
	Roof Cladding	Standard Colourbond TL/5 M-Clad Profile.42 BMT - Stratco Superdeck – Colour RAL 9001
	Doors	External Single Doors (PA Doors) Std.Dimension: 2.2mH x900mmW – Colour RAL 9001
	Gutters and Downpipes	Colour RAL 9001
	Substructure	Galvanized in colour
Reactive Plant (Refer to Figure 5 for example)	Surfmist	
STATCOM building (Refer to Figure 6 for example)	Baseframe	RAL 9001
	External Walls	
	Roof	
	External Doors	
	Finishing and Trim	
Fence	Simple chain mail fence will be designed to AS1725.1	

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

**PERMIT NO. 2006/0222-2
Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
Sheet 18 of 31**

Signed:  for
MINISTER FOR PLANNING
Date: 17 August 2023



Figure 1 Operation Building

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

PERMIT NO. 2006/0222-2
Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
Sheet 19 of 31


Signed:  for
MINISTER FOR PLANNING
Date: 17 August 2023



Figure 2 Operation Building

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

**PERMIT NO. 2006/0222-2
Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
Sheet 20 of 31**



Signed:  for
MINISTER FOR PLANNING
Date: 17 August 2023



Figure 3 Control Room Example

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

PERMIT NO. 2006/0222-2
Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
Sheet 21 of 31

Signed:  for
MINISTER FOR PLANNING
Date: 17 August 2023

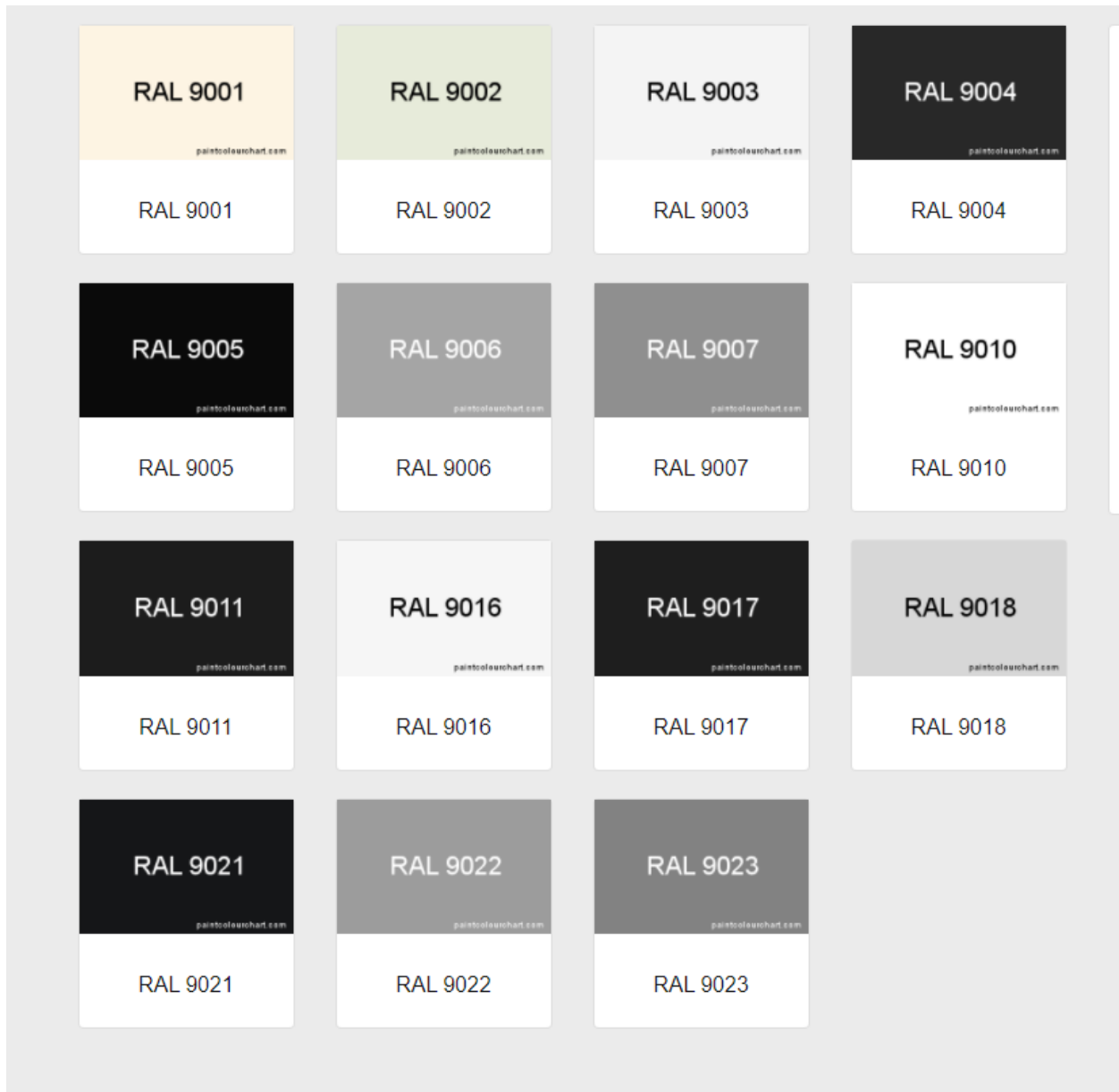


Figure 4 Control Room Color Specifications

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

**PERMIT NO. 2006/0222-2
Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
Sheet 22 of 31**

Signed:  for
MINISTER FOR PLANNING
Date: 17 August 2023

Ryan Corner Wind Farm

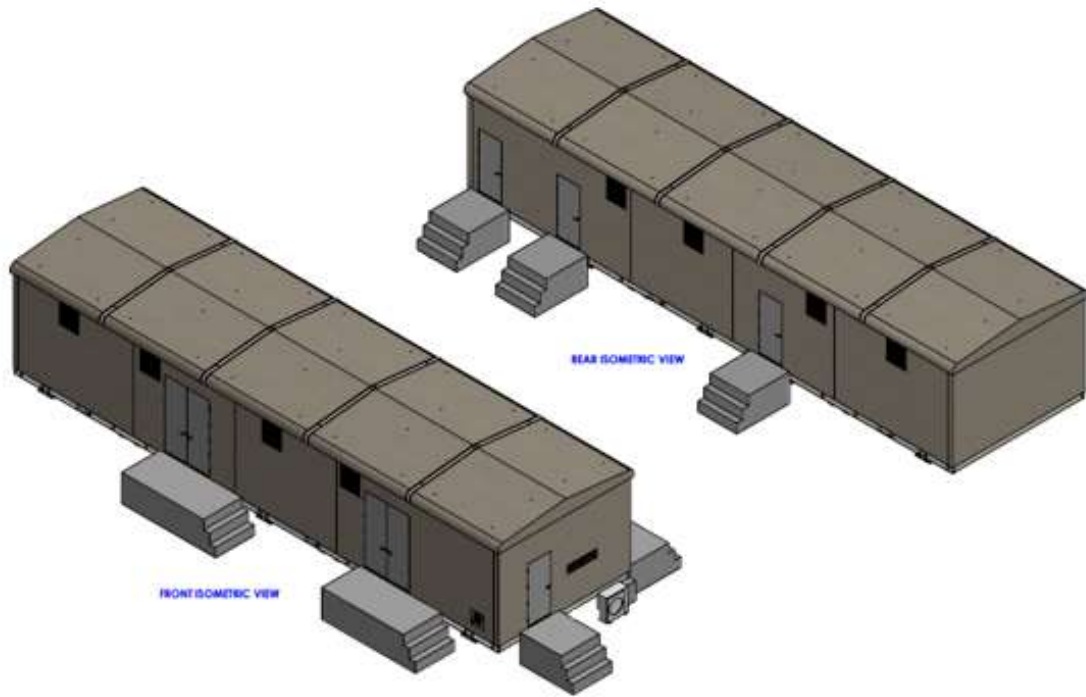



Figure 5. Reactive Plant

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

**PERMIT NO. 2006/0222-2
Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
Sheet 23 of 31**

Signed:  for
MINISTER FOR PLANNING
Date: 17 August 2023

Ryan Corner Wind Farm

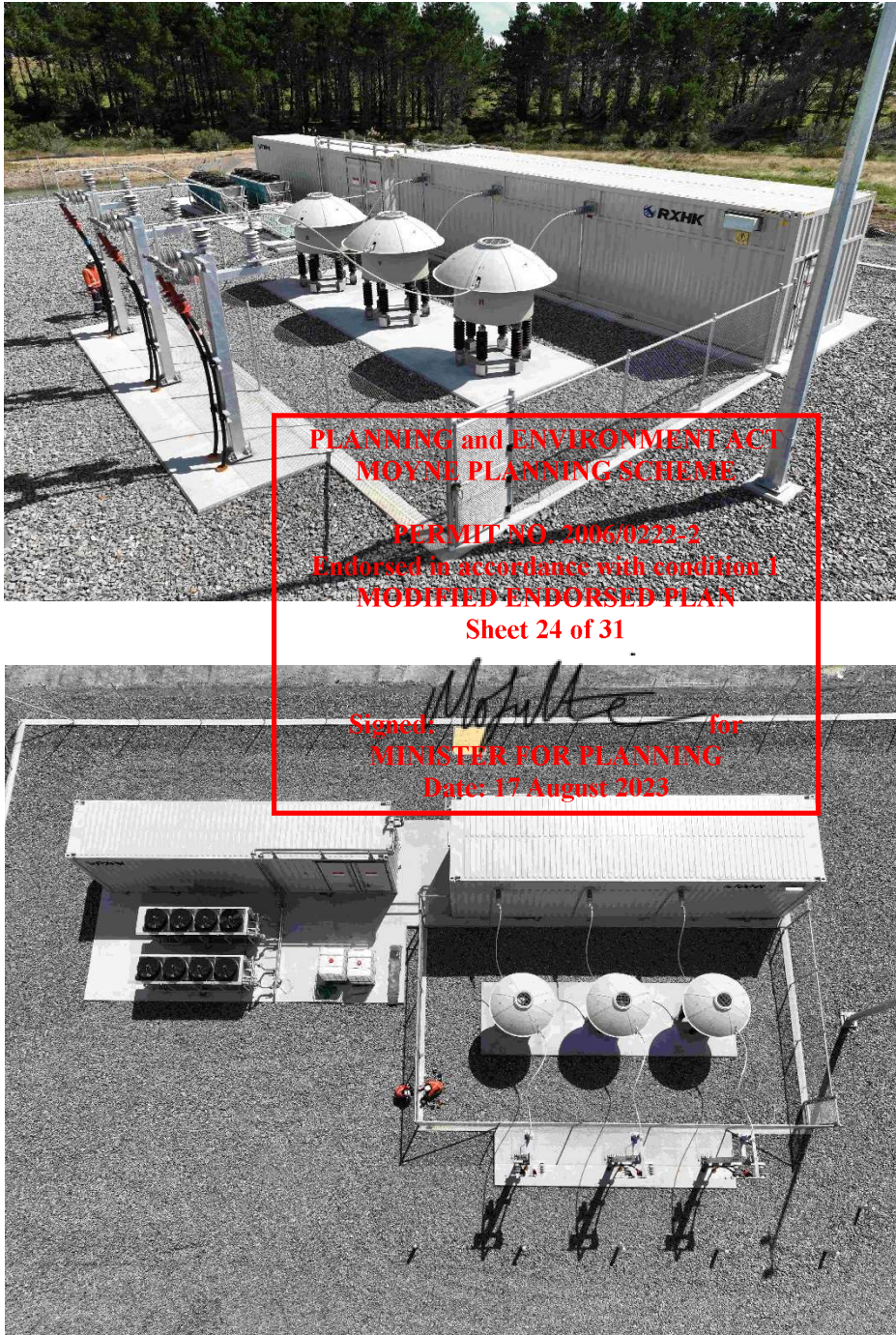


Figure 6. STATCOM

ROADSIDE SIGNAGE

2 metres



RYAN CORNER WIND FARM

NUMBER OF WIND TURBINES: 52

WIND FARM CAPACITY: 218.4 MW

FOR ANY ENQUIRIES:

POSTAL ADDRESS: RYAN CORNER DEVELOPMENT PTY LTD
Suite 4 Level 3, 24 Marcus Clarke Street, Canberra, ACT 2600

TELEPHONE: +61 2 6274 3200

EMAIL: info@globalpower-generation.au

1 metre

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

PERMIT NO. 2006/0222-2
Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
Sheet 25 of 31

Signed:  for
MINISTER FOR PLANNING
Date: 17 August 2023

NOTE: THE ROADSIDE SIGNAGE TO BE PLACED
WITHIN 100 METRES OF THE SITE ACCESS ROADS

VER	DATE	DRAWN	REVIEW	VERIFY	APPROVE	REVISION COMMENT
4	07.12.21	GR	GAC			Revised for Permit Amendment
3	24.03.17	SQ	GAC			Revised for Permit Amendment
2	08.12.16	SQ	GAC			Issued for Permit Amendment
1	10.02.12	LC	SQ			Issued for Endorsement

RYAN CORNER DEVELOPMENT PTY LTD

PROJECT TITLE: RYAN CORNER WIND FARM DEVELOPMENT PLAN

PLAN TITLE: ROADSIDE SIGNAGE DETAILS
52 TURBINE LAYOUT - 218.4 MW

SCALE: 1:10

Plan:
DRAWING No: **RCWF-DP-05-V04**
SHEET 1 OF 1

PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME

PERMIT NO. 2006/0222-2
Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
Sheet 26 of 31

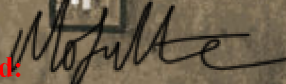
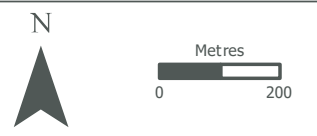
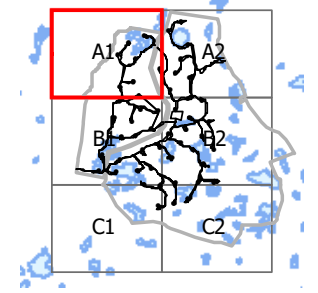
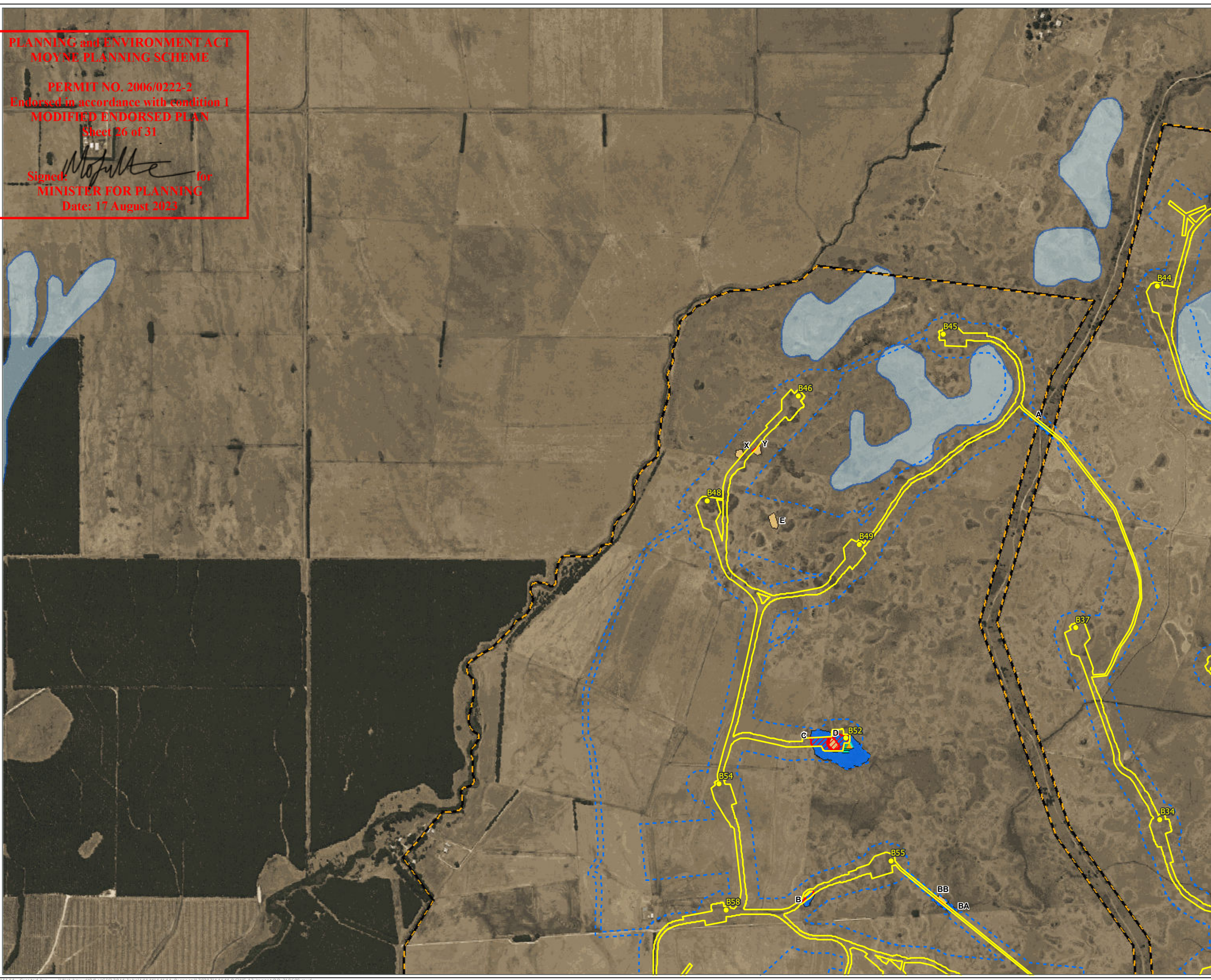
Signed:  for
MINISTER FOR PLANNING
Date: 17 August 2023

Figure 2-A1: RCWF native vegetation to be impacted

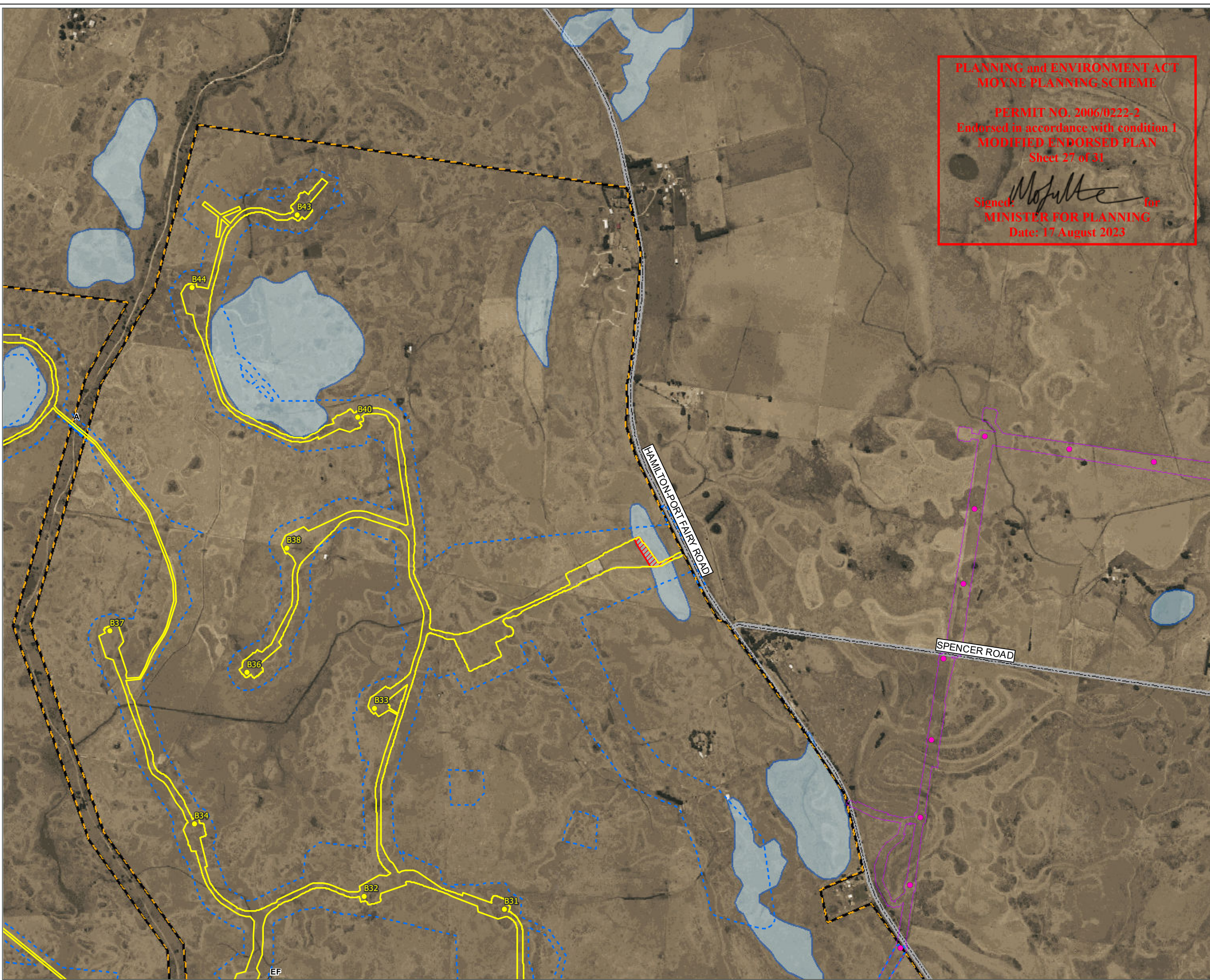
Project: Ryan Corner Wind Farm
Client: Ryan Corner Development Pty Ltd
Date: 23/11/2021

- Combined study area
- Development footprint
- Proposed turbine locations
- Native vegetation**
 - Plains Grassy Wetland (EVC 125)
 - Stony Knoll Shrubland (EVC 649)
 - Pale Swamp-everlasting
 - Swamp Fireweed
 - DELWP wetlands
 - Native vegetation to be removed



PO Box 337, Camberwell, VIC 3124, Australia
www.natureadvisory.com.au
03 9815 2111 - info@natureadvisory.com.au

Figure 2-A2: RCWF native vegetation to be impacted



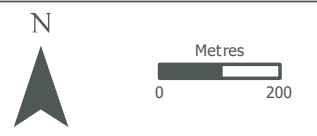
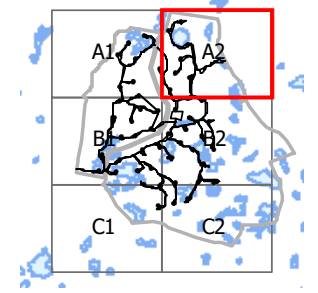
**PLANNING and ENVIRONMENT ACT
 MOYNE PLANNING SCHEME**

PERMIT NO. 2006/0222-2
 Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
 Sheet 27 of 31

 Signed: *Mofulte* for
MINISTER FOR PLANNING
 Date: 17 August 2023

Project: Ryan Corner Wind Farm
Client: Ryan Corner Development Pty Ltd
Date: 23/11/2021

- ▬▬▬ Combined study area
- Combined TXL study area
- ▬ Development footprint
- Proposed turbine locations
- Pole location
- Native vegetation**
- Plains Grassy Wetland (EVC 125)
- Stony Knoll Shrubland (EVC 649)
- DELWP wetlands
- Native vegetation to be removed



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Figure 2-B1: RCWF native vegetation to be impacted

Project: Ryan Corner Wind Farm
Client: Ryan Corner Development Pty Ltd
Date: 23/11/2021

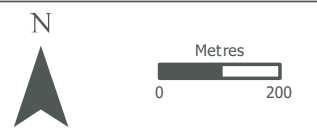
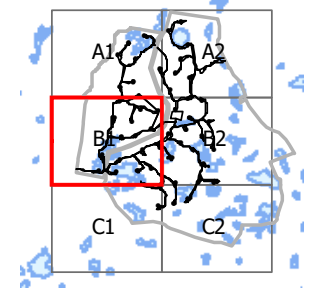
PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME

PERMIT NO. 2006/0222-3
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MODIFIED ENDORSED PLAN
 Sheet 28 of 31

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 Date: 17 August 2023



- Combined study area
- Development footprint
- Proposed turbine locations
- Native vegetation**
- Damp Sands Herb-rich Woodland (EVC 3)
- Plains Grassland - Heavier-soils (EVC 132_61)
- Plains Grassy Wetland (EVC 125)
- Stony Knoll Shrubland (EVC 649)
- Basalt Leek Orchid
- Listed ecological communities**
- NTGVVP
- SHWTLP
- Potential SHWTLP
- DELWP wetlands
- Native vegetation to be removed



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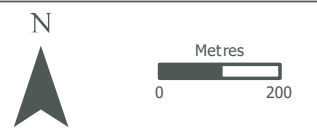
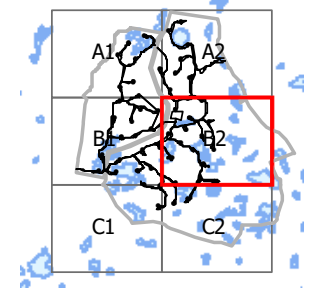
Figure 2-B2: RCWF native vegetation to be impacted

Project: Ryan Corner Wind Farm
Client: Ryan Corner Development Pty Ltd
Date: 23/11/2021

- Combined study area
- Combined TXL study area
- Development footprint
- Proposed turbine locations
- Pole location
- Native vegetation**
- Aquatic Herbland (EVC 653)
- Higher Rainfall Plains
- Grassy Woodland (EVC 55_63)
- Plains Grassland - Heavier-soils (EVC 132_61)
- Plains Grassy Wetland (EVC 125)
- Stony Knoll Shrubland (EVC 649)
- Basalt Leek Orchid
- Listed ecological communities**
- NTGVVP
- SHWTLP
- DELWP wetlands
- Native vegetation to be removed

PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME
PERMIT NO. 2006/0222-2
 Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
 Sheet 29 of 31

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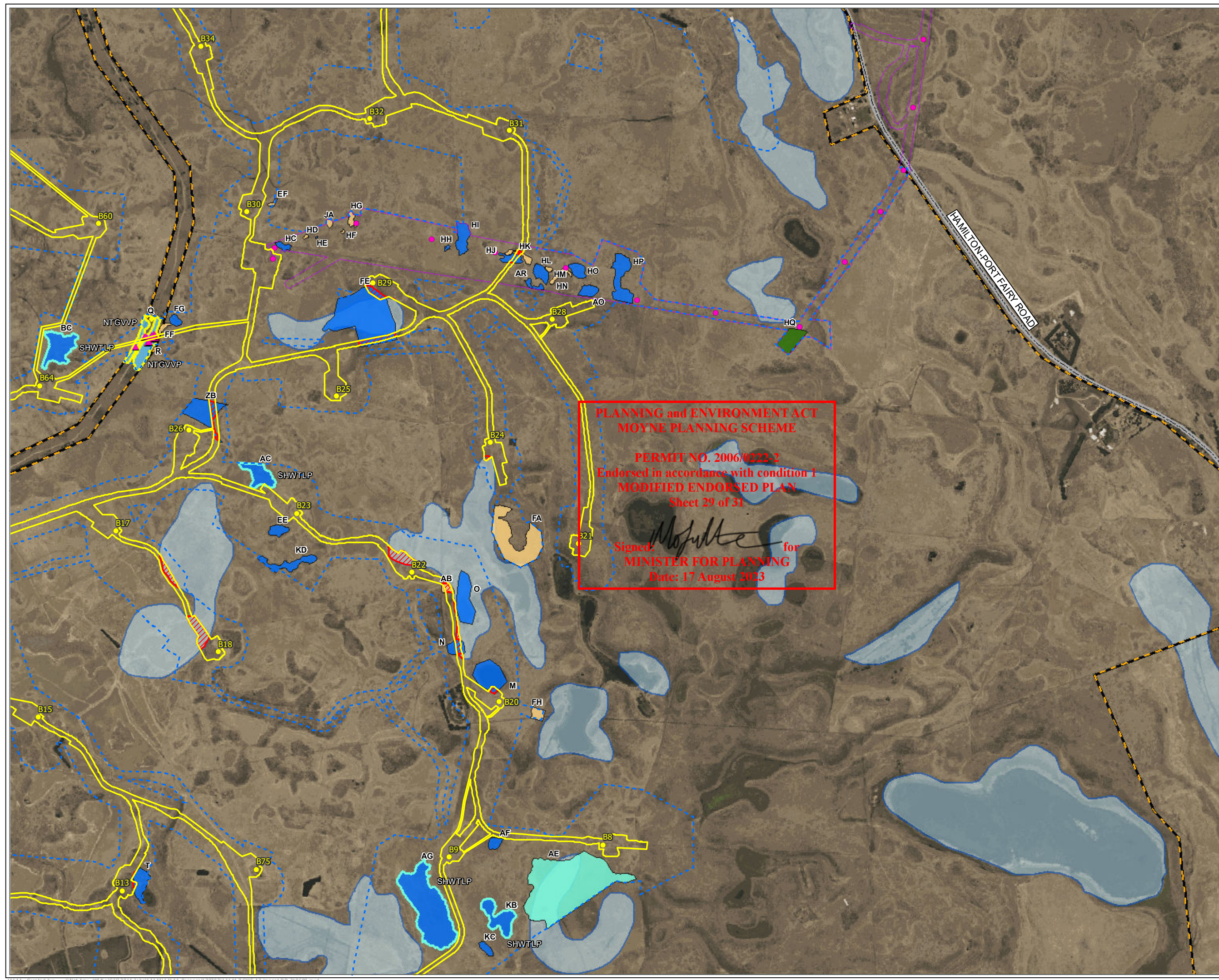


Figure 2-C1: RCWF native vegetation to be impacted

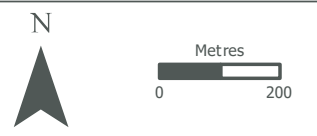
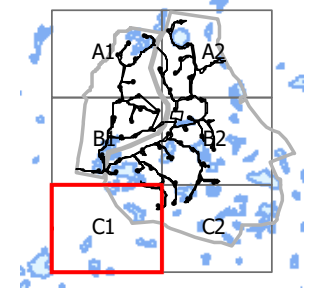
Project: Ryan Corner Wind Farm
Client: Ryan Corner Development Pty Ltd
Date: 23/11/2021

- Combined study area
- Development footprint
- Proposed turbine locations
- Native vegetation**
 - Aquatic Hermland (EVC 653)
 - Damp Sands Herb-rich Woodland (EVC 3)
 - Plains Grassy Wetland (EVC 125)
 - Stony Knoll Shrubland (EVC 649)
- Listed ecological communities**
 - Potential SHWTLP
 - DELWP wetlands
 - Native vegetation to be removed

**PLANNING and ENVIRONMENT ACT
 MOYNE PLANNING SCHEME**

PERMIT NO. 2006/0222-2
 Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
 Sheet 30 of 31

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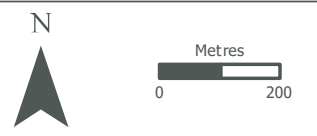
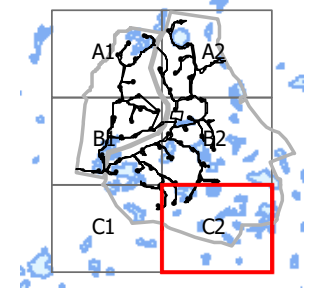
Figure 2-C2: RCWF native vegetation to be impacted

Project: Ryan Corner Wind Farm

Client: Ryan Corner Development Pty Ltd

Date: 23/11/2021

-  Combined study area
-  Development footprint
-  Proposed turbine locations
- Native vegetation**
-  Aquatic Herbland (EVC 653)
-  Plains Grassy Wetland (EVC 125)
-  Stony Knoll Shrubland (EVC 649)
- Listed ecological communities**
-  SHWTLP
-  DELWP wetlands
-  Native vegetation to be removed



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 MOYNE PLANNING SCHEME**

PERMIT NO. 2006/0222-2
 Endorsed in accordance with condition 1
MODIFIED ENDORSED PLAN
 Sheet 31 of 31

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