

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
BOYNE PLANNING SCHEME
 PERMIT NO. 2006/0222-2
 Endorsed in accordance with Condition 1
ENDORSED PLAN
 Sheet 1 of 24
 Signed: *Mojutte* for
MINISTER FOR PLANNING
 Date: 09/03/2022

Legend

- x Approved Turbine Location
- x 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

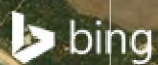
Drawing No: 0105123_001_RCWF_Layout_R10.mxd	Ryan Corner Wind Farm
Date: 11/11/2021	Drawing Size: A3
Drawn By: GR	Reviewed By: GAA
Client: Ryan Corner Development Pty Ltd	

Coordinate System: GDA 1994 MGA Zone 54

0 500 1,000m

N

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.

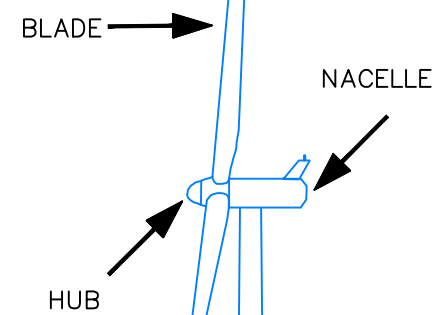


TURBINE ID	General Layout Coordinates 30th March 2021		General Layout Coordinates 30th March 2021		RCWF Approved Locations August 2008		RCWF Approved Locations August 2008		RCWF Microsited Locations 6th March 2017 as per endorsed plans dated 25 July 2016		RCWF Microsited Locations 6th March 2017 as per endorsed plans dated 25 July 2016		General Layout 30th March 2021 VS August 2008			General Layout 30th March 2021 VS 6th March 2017		
	OD484 - MGA Zone 54 Coordinates (m)	AD665 - AMG Zone 54 Coordinates (m)	OD484 - MGA Zone 54 Coordinates (m)	AD665 - AMG Zone 54 Coordinates (m)	OD484 - MGA Zone 54 Coordinates (m)	AD665 - AMG Zone 54 Coordinates (m)	OD484 - MGA Zone 54 Coordinates (m)	AD665 - AMG Zone 54 Coordinates (m)	OD484 - MGA Zone 54 Coordinates (m)	AD665 - AMG Zone 54 Coordinates (m)	OD484 - MGA Zone 54 Coordinates (m)	AD665 - AMG Zone 54 Coordinates (m)	D.Easting (X)	D.Northing (Y)	Delta (m)	D.Easting (X)	D.Northing (Y)	
86	598.577	5,759.081	598.757	5,758.884	598.877	5,759.021	598.757	5,758.884	598.877	5,759.021	598.757	5,758.884	0	0	0	0		
88	599.197	5,759.843	599.077	5,759.406	599.748	5,759.858	599.628	5,759.481	599.700	5,759.576	599.580	5,759.399	-21	-15	26	27		
89	599.166	5,759.598	599.046	5,759.421	599.166	5,759.628	599.046	5,759.451	599.166	5,759.598	599.046	5,759.421	0	-30	30	0		
910	597.977	5,759.790	597.797	5,758.813	597.853	5,758.758	597.733	5,758.581	597.877	5,758.848	597.757	5,758.672	84	32	72	40		
911					597.488	5,759.056	597.368	5,758.879										
913	597.978	5,759.476	597.858	5,759.298	597.978	5,759.476	597.858	5,759.298	597.978	5,759.476	597.858	5,759.298	0	0	0	0		
914	597.425	5,759.531	597.305	5,759.354	597.425	5,759.531	597.305	5,759.354	597.425	5,759.531	597.305	5,759.354	0	0	0	0		
915	597.812	5,760.108	597.552	5,759.931	597.885	5,760.101	597.685	5,759.924	597.843	5,760.028	597.523	5,759.851	-13	7	15	29		
916	597.376	5,760.581	597.256	5,760.374	597.386	5,760.553	597.266	5,760.376	597.411	5,760.645	597.291	5,760.468	-10	-2	10	-94		
917	597.650	5,760.786	597.530	5,760.609	597.638	5,760.688	597.518	5,760.511	597.638	5,760.688	597.518	5,760.511	17	98	99	98		
918	598.326	5,760.346	598.206	5,760.169	598.285	5,760.302	598.165	5,760.125	598.352	5,760.369	598.232	5,760.192	41	44	60	-23		
919					598.707	5,760.082	598.587	5,759.905										
920	598.349	5,760.165	598.229	5,759.988	598.334	5,760.127	598.214	5,759.950	598.349	5,760.185	598.229	5,760.008	15	98	41	-20		
921	599.835	5,760.715	599.515	5,760.538	599.888	5,760.832	599.568	5,760.655	599.888	5,760.832	599.568	5,760.655	-53	83	98	83		
922	599.330	5,760.589	599.072	5,760.468	599.382	5,760.635	599.122	5,760.458	599.382	5,760.635	599.122	5,760.458	-10	0	10	-10		
923	598.873	5,760.873	598.893	5,760.873	598.813	5,760.850	598.833	5,760.850	598.813	5,760.850	598.833	5,760.850	0	0	0	0		
924	598.316	5,761.108	598.196	5,760.931	598.316	5,761.108	598.196	5,760.931	598.316	5,761.108	598.196	5,760.931	0	0	0	0		
925	598.757	5,761.276	598.637	5,761.099	598.807	5,761.276	598.687	5,761.099	598.807	5,761.276	598.687	5,761.099	-50	0	50	-50		
926	598.219	5,761.151	598.099	5,760.974	598.219	5,761.151	598.099	5,760.974	598.219	5,761.151	598.099	5,760.974	0	0	0	0		
927					600.095	5,761.238	599.975	5,761.062										
928	599.542	5,761.555	599.422	5,761.378	599.542	5,761.555	599.422	5,761.378	599.542	5,761.555	599.422	5,761.378	0	0	0	0		
929	598.888	5,761.590	598.768	5,761.513	598.888	5,761.740	598.768	5,761.563	598.888	5,761.690	598.768	5,761.513	-50	50	0	0		
930	598.430	5,761.948	598.310	5,761.771	598.430	5,761.948	598.310	5,761.771	598.430	5,761.948	598.310	5,761.771	0	0	0	0		
931	599.361	5,762.242	599.265	5,762.065	599.361	5,762.242	599.265	5,762.065	599.361	5,762.242	599.265	5,762.065	0	0	95	0		
932	598.877	5,762.286	598.757	5,762.109	598.877	5,762.286	598.757	5,762.109	598.877	5,762.286	598.757	5,762.109	0	0	0	0		
933	598.974	5,762.368	598.794	5,762.191	598.954	5,762.399	598.834	5,762.222	598.914	5,762.368	598.794	5,762.191	-40	69	80	0		
934	598.363	5,762.350	598.143	5,762.173	598.363	5,762.350	598.143	5,762.173	598.363	5,762.350	598.143	5,762.173	0	0	0	0		
935					599.205	5,763.262	599.085	5,763.085	599.137	5,763.229	599.017	5,763.152						
936	598.462	5,763.088	598.332	5,762.921	598.532	5,763.098	598.412	5,762.921	598.452	5,763.098	598.332	5,762.921	-80	0	80	0		
937	597.668	5,763.248	597.636	5,763.071	597.668	5,763.248	597.636	5,763.071	597.668	5,763.248	597.636	5,763.071	0	0	0	0		
938	598.589	5,763.349	598.479	5,763.172	598.679	5,763.349	598.559	5,763.172	598.659	5,763.349	598.479	5,763.172	-80	0	80	0		
939					599.031	5,763.700	598.911	5,763.523	599.031	5,763.700	598.911	5,763.523						
940	598.854	5,764.021	598.734	5,763.844	598.922	5,764.021	598.802	5,763.844	598.910	5,764.021	598.790	5,763.844	-68	67	95	0		
941					598.504	5,764.148	598.384	5,763.969	598.422	5,764.098	598.302	5,763.921						
942					598.907	5,764.413	598.787	5,764.236										
943	598.636	5,764.744	598.516	5,764.577	598.692	5,764.811	598.572	5,764.634	598.692	5,764.811	598.572	5,764.634	-56	-57	80	-57		
944	598.253	5,764.493	598.133	5,764.316	598.299	5,764.550	598.179	5,764.373	598.299	5,764.493	598.133	5,764.316	-56	-57	80	0		
945	597.473	5,764.315	597.353	5,764.138	597.530	5,764.372	597.410	5,764.195	597.473	5,764.315	597.353	5,764.138	-57	-57	81	0		
946	596.945	5,763.915	596.825	5,763.738	596.945	5,763.915	596.825	5,763.738	596.945	5,763.915	596.825	5,763.738	0	0	0	0		
947					597.604	5,763.897	597.484	5,763.720	597.604	5,763.897	597.484	5,763.720						
948	596.613	5,763.711	596.493	5,763.534	596.613	5,763.711	596.493	5,763.534	596.613	5,763.711	596.493	5,763.534	0	0	0	0		
949	597.168	5,763.552	597.048	5,763.375	597.168	5,763.552	597.048	5,763.375	597.168	5,763.552	597.048	5,763.375	66	67	94	0		
950					598.325	5,763.423	598.205	5,763.246										
951					598.793	5,763.336	598.673	5,763.159										
952	597.119	5,762.847	596.999	5,762.670	597.084	5,762.882	596.964	5,762.705	597.119	5,762.847	596.999	5,762.670	35	-35	49	0		
953					596.143	5,762.843	596.023	5,762.666										
954	596.658	5,762.679	596.538	5,762.502	596.683	5,762.679	596.563	5,762.502	596.658	5,762.679	596.538	5,762.502	-25	0	25	0		
955	597.292	5,762.400	597.162	5,762.223	597.187	5,762.400	597.067	5,762.224	597.282	5,762.400	597.162	5,762.223	95	-1	95	0		
956					596.999	5,762.358	596.879	5,762.181										
957	596.983	5,762.220	596.863	5,762.043	596.999	5,762.153	596.879	5,761.976	596.983	5,762.220	596.863	5,762.043	-67	67	95	0		
958	597.315	5,761.955	597.195	5,761.778	597.315	5,761.955	597.195	5,761.778	597.315	5,761.955	597.195	5,761.778	0	0	0	0		
959	597.891	5,761.806	597.771	5,761.629	597.891	5,761.806	597.771	5,761.629	597.891	5,761.806	597.771	5,761.629	0	0	0	0		
961					595.919	5,761.854	595.799	5,761.677										
962	596.480	5,761.644	596.360	5,761.467	596.480	5,761.644	596.360	5,761.467	596.480	5,761.644	596.360	5,761.467	0	0	0	0		
963	597.013	5,761.607	596.893	5,761.430	597.043	5,761.574	596.923	5,761.397	597.043	5,761.574	596.923	5,761.397	-30	33	45	-30		
964	597.676	5,761.315	597.556	5,761.138	597.676	5,761.315	597.556	5,761.138	597.676	5,761.315	597.556	5,761.138	0	0	0	0		
965					598.265	5,761.154	598.145	5,760.977										
966	596.725	5,761.036	596.605	5,760.859	596.725	5,761.036	596.605	5,760.681	596.725	5,761.036	596.605	5,760.859	0	95	95	0		
967	597.173	5,761.103	597.053	5,760.926	597.173	5,761.103	597.053	5,760.750	597.173	5,761.103	597.053	5,760.926	0	0	0	0		
968					595.685	5,760.757	595.565	5,760.580										
969	596.672	5,760.446	596.552	5,760.279	596.672	5,760.446	596.552	5,760.102	596.672	5,760.446	596.552	5,760.279	-1	-20	20	0		
970	595.988	5,759.942	595.788	5,759.765	595.988	5,759.982	595.788	5,759.805	595.988	5,759.982	595.788	5,759.805	-81	81	95	-40		
971					595.475	5,760.072	595.355	5,759.895										
972	596.642	5,760.305	596.522	5,760.128	596.642	5,760.305	596.522	5,760.128	596.642	5,760.305	596.522	5,760.128	-48	-83	96	0		
973	597.214	5,759.789	597.094	5,759.612	597.214	5,759.789	597.094	5,759.612	597.214	5,759.789	597.094	5,759.612	0	0	0	0		
974	596.214	5,759.807	596.094	5,759.630	596.214	5,759.807	596.094	5,759.630	596.214	5,759.807	596.094	5,759.630	0	0	0	0		
975	596.465	5,759.554	596.345	5,759.377	596.465	5,759.554	596.345	5,759.377	596.46									

VESTAS V-136 TURBINE

VESTAS V136 TURBINE

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



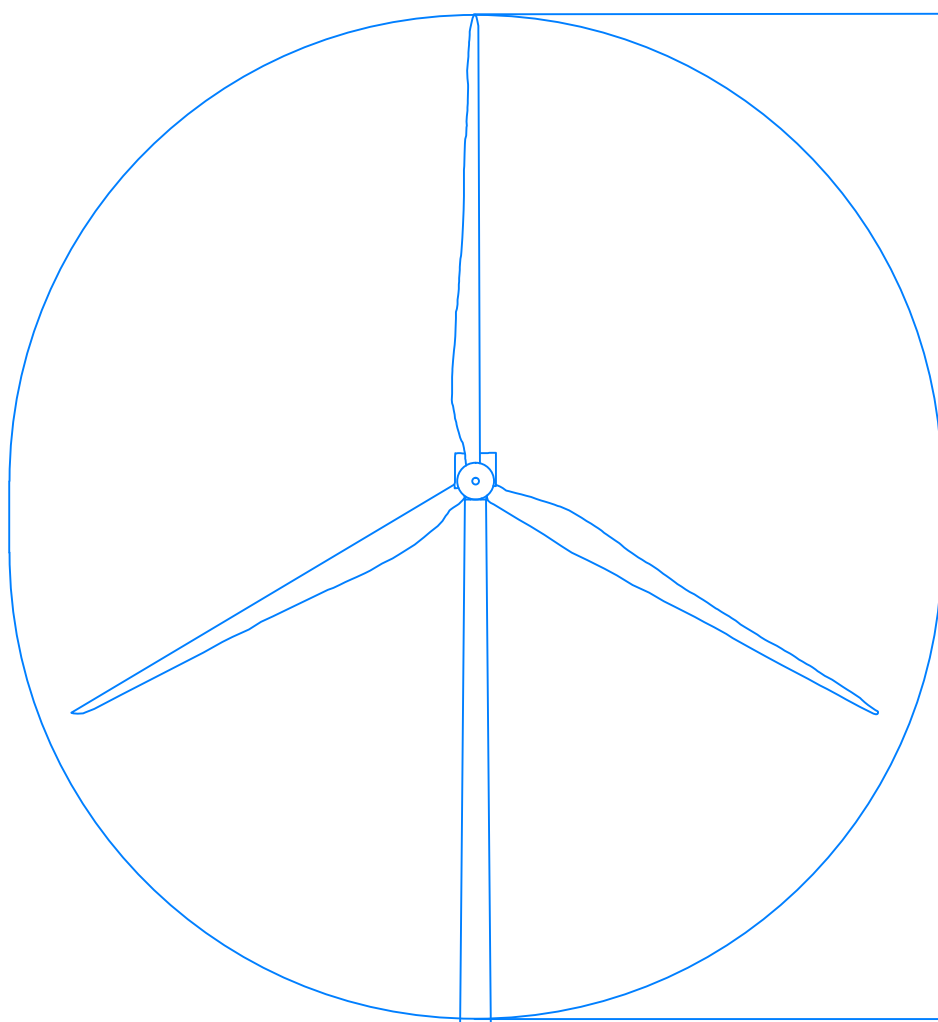
TOWER

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

PERMIT NO. 2006/0222-2
Endorsed in accordance with Condition 1
ENDORSED PLAN
Sheet 3 of 24

Signed: *Mojib* for
MINISTER FOR PLANNING
Date: 09/03/2022

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



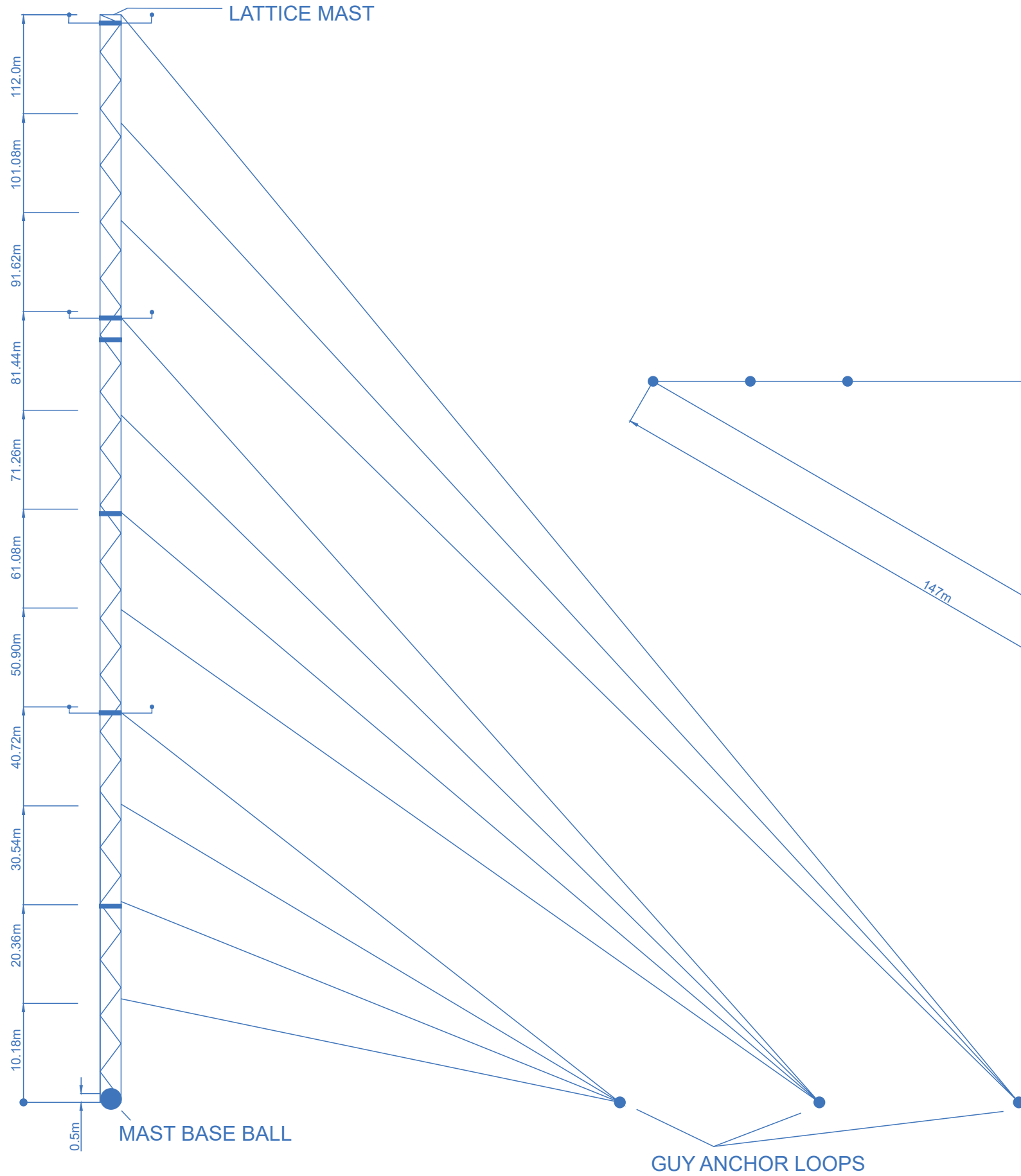
DRAWING No: RCWF-DP-02-v09
SHEET 1 OF 1

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A3

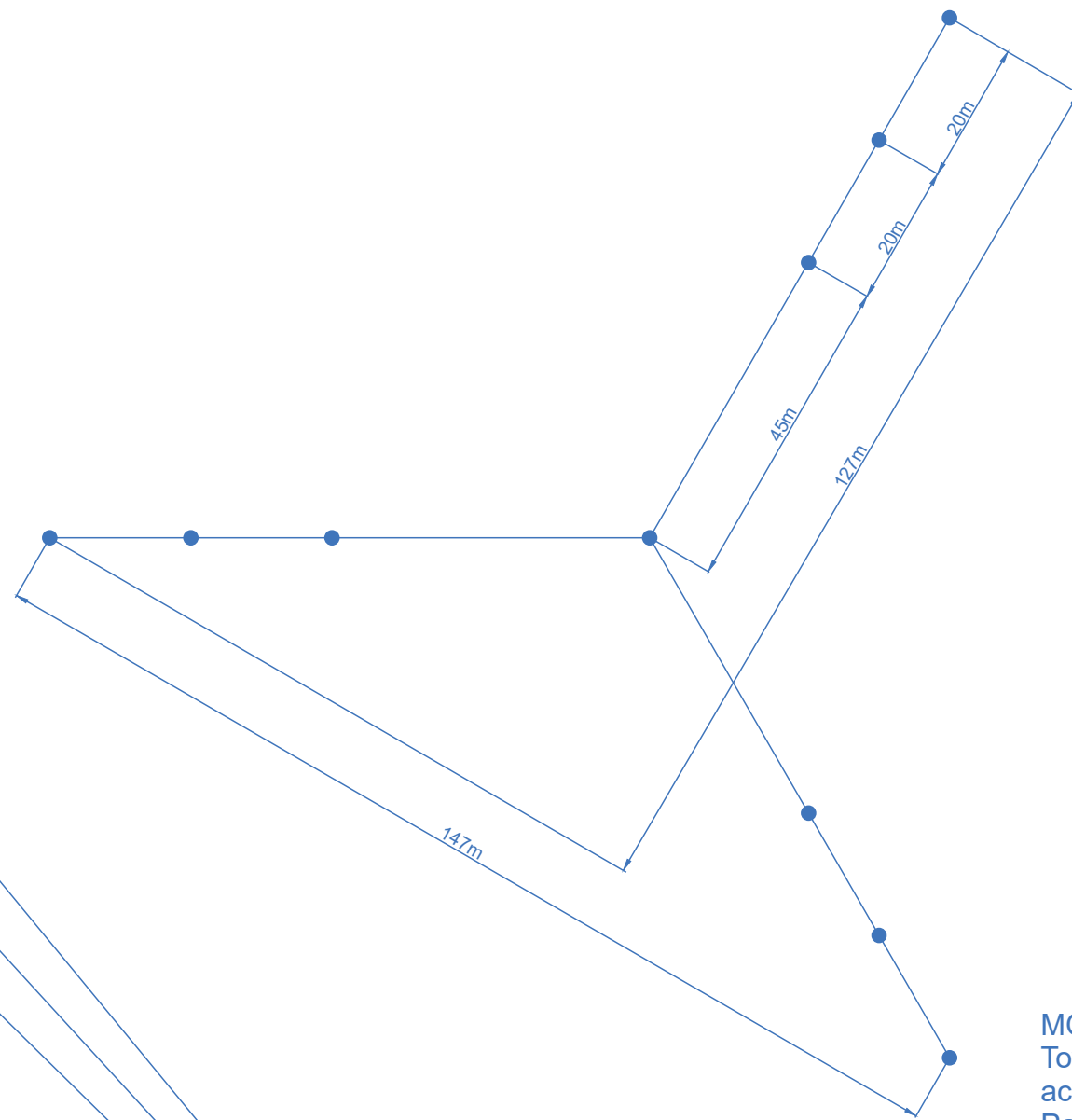
ELEVATION VIEW

SCALE 1:500



PLAN VIEW

SCALE 1:1000



**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

PERMIT NO. 2006/0222-2
Endorsed in accordance with Condition 1
ENDORSED PLAN
Sheet 4 of 24

Signed: *[Signature]* for
MINISTER FOR PLANNING
Date: 09/03/2022

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

Plan:
DRAWING No:
RCWF-DP-04-v04

GPG A subsidiary of Gas Natural Fenosa

SHEET 1 OF 1


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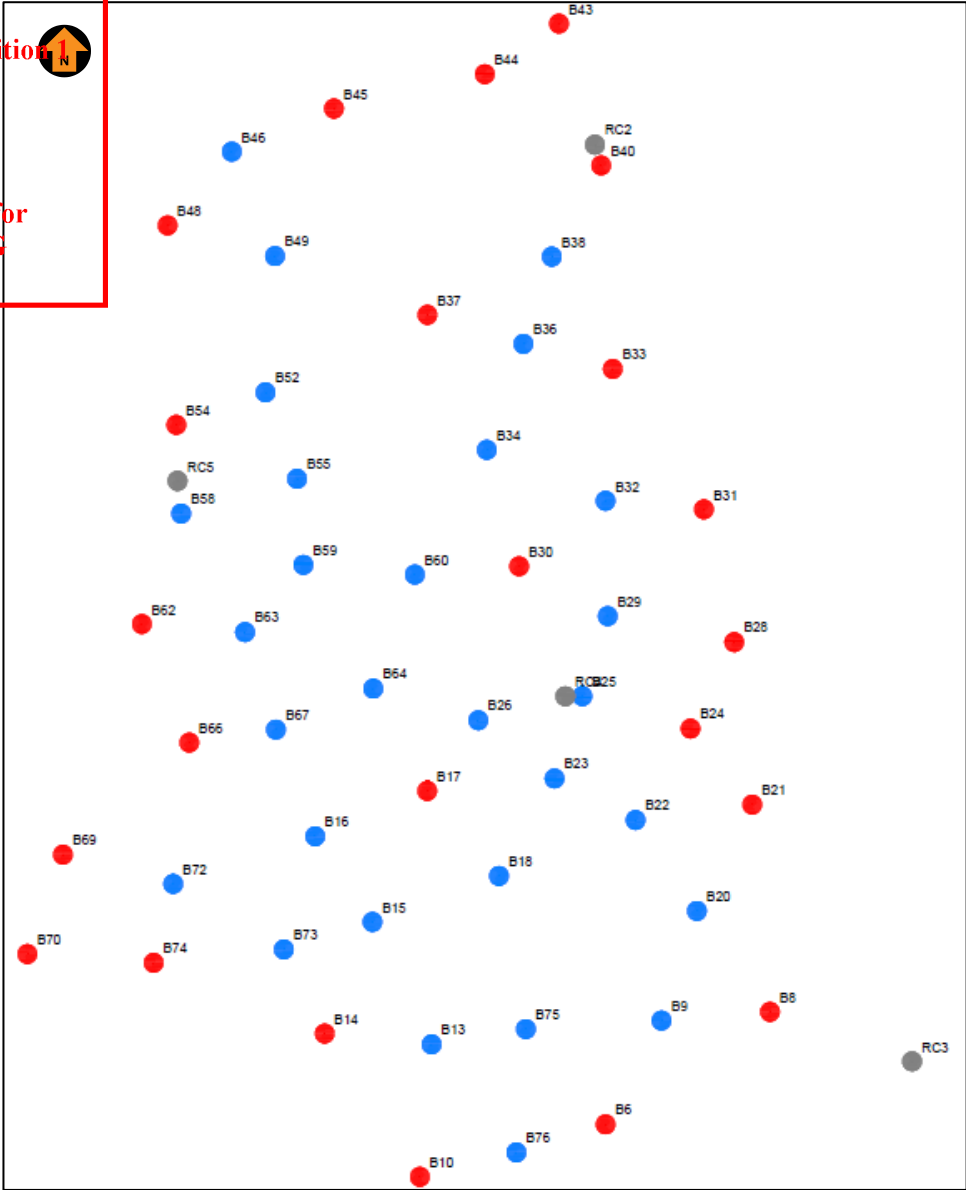
PERMIT NO. 2006/0222-2




Endorsed in accordance with Condition 1

ENDORSED PLAN

Sheet 5 of 24

Signed:  for
MINISTER FOR PLANNING
Date: 09/03/2022



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

Scale:
Not to scale

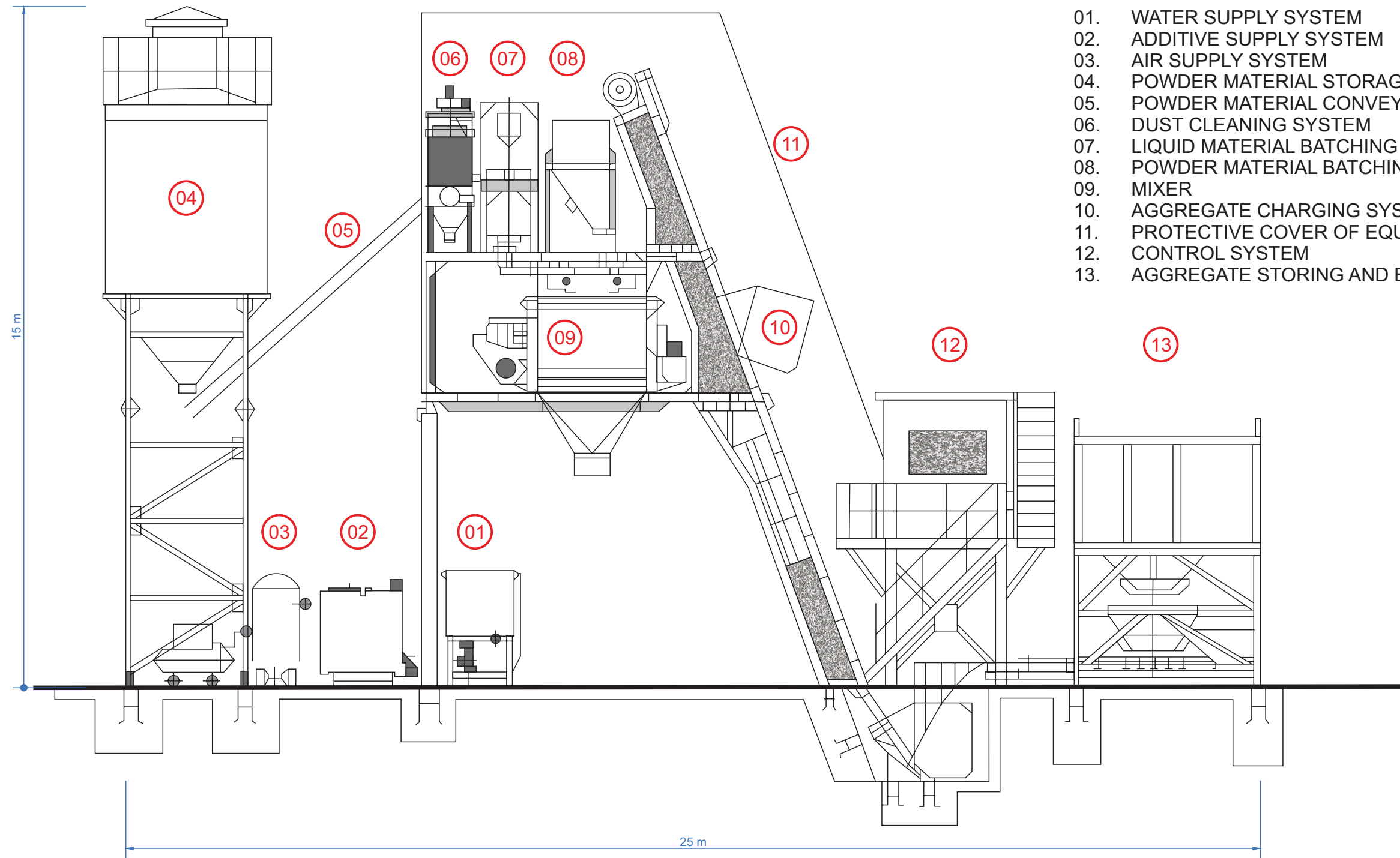
Date:
16/04/21

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

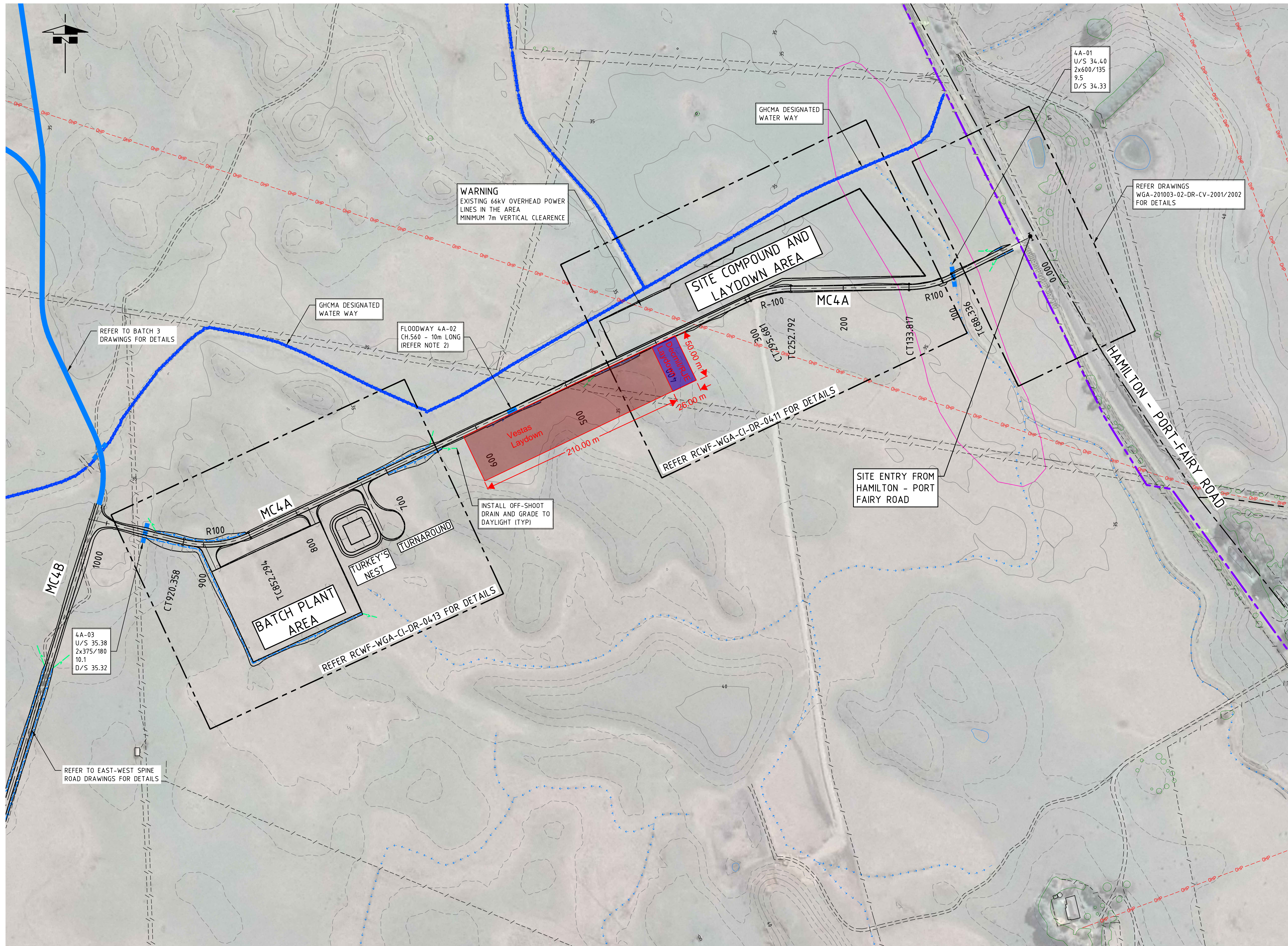
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**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

PERMIT NO. 2006/0222-2
Endorsed in accordance with Condition 1
ENDORSED PLAN
Sheet 6 of 24

Signed: *[Signature]* for
MINISTER FOR PLANNING
Date: 09/03/2022

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

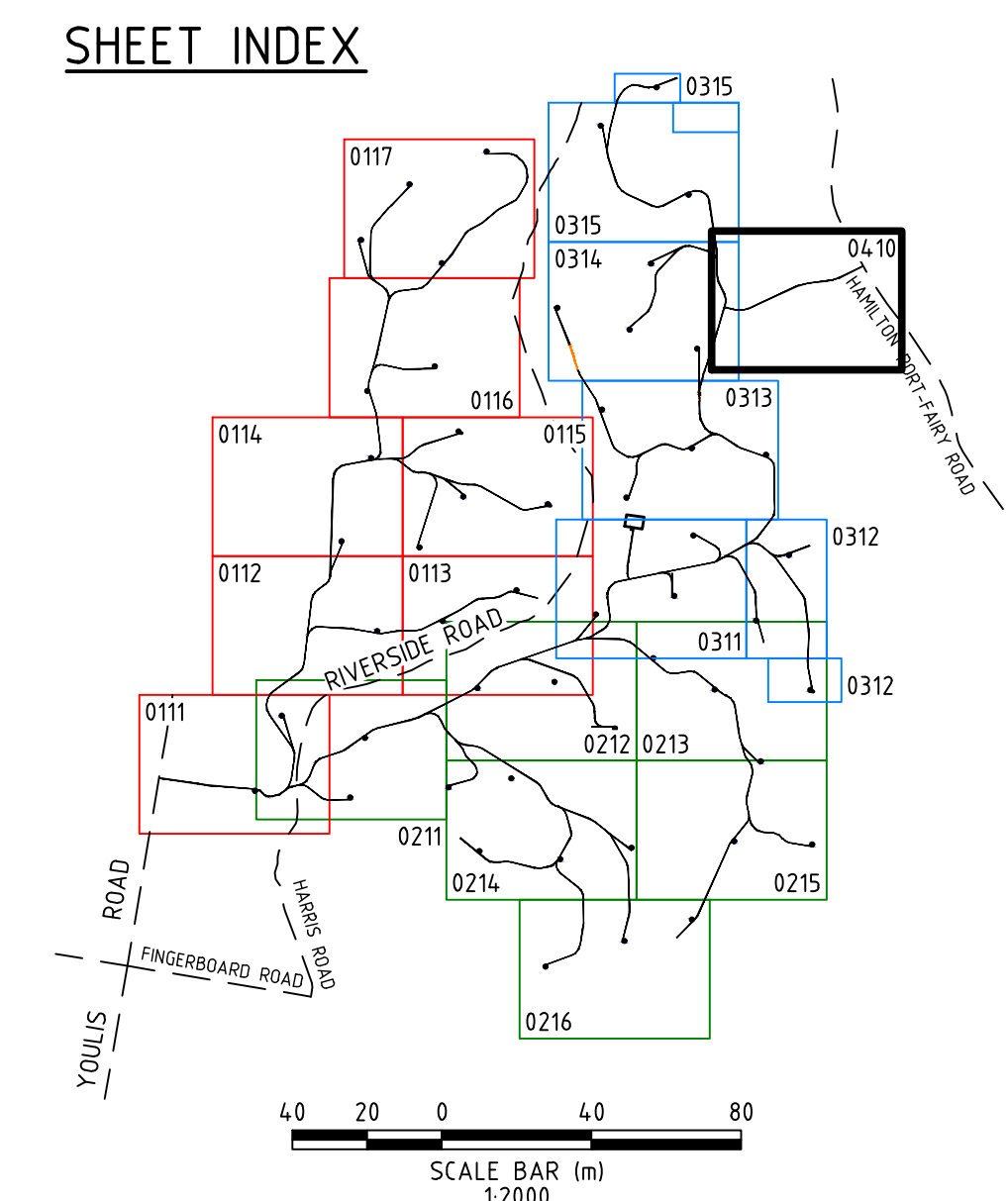


LEGEND

- EXISTING 1.0m CONTOURS
- EXISTING 5.0m CONTOURS
- TURBINE LOCATION
- ACCESS ROAD
- GLENELG HOPKINS CATCHMENT MANAGEMENT AUTHORITY (GHCMA) DESIGNATED WATER WAY
- EXISTING FARM DRAINS
- CULVERT NUMBER
UPSTREAM INVERT LEVEL
NO. BARRELS/PIPE DIAMETER/PIPE GRADE
PIPE LENGTH
DOWNSTREAM INVERT LEVEL
- 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**

PERMIT NO. 2006/0222-2
Endorsed in accordance with Condition 1
ENDORSED PLAN
Sheet 7 of 24

Signature: *[Signature]* for
MINISTER FOR PLANNING
Date: 09/03/2022

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

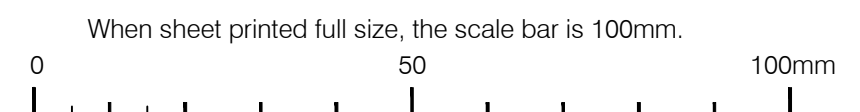


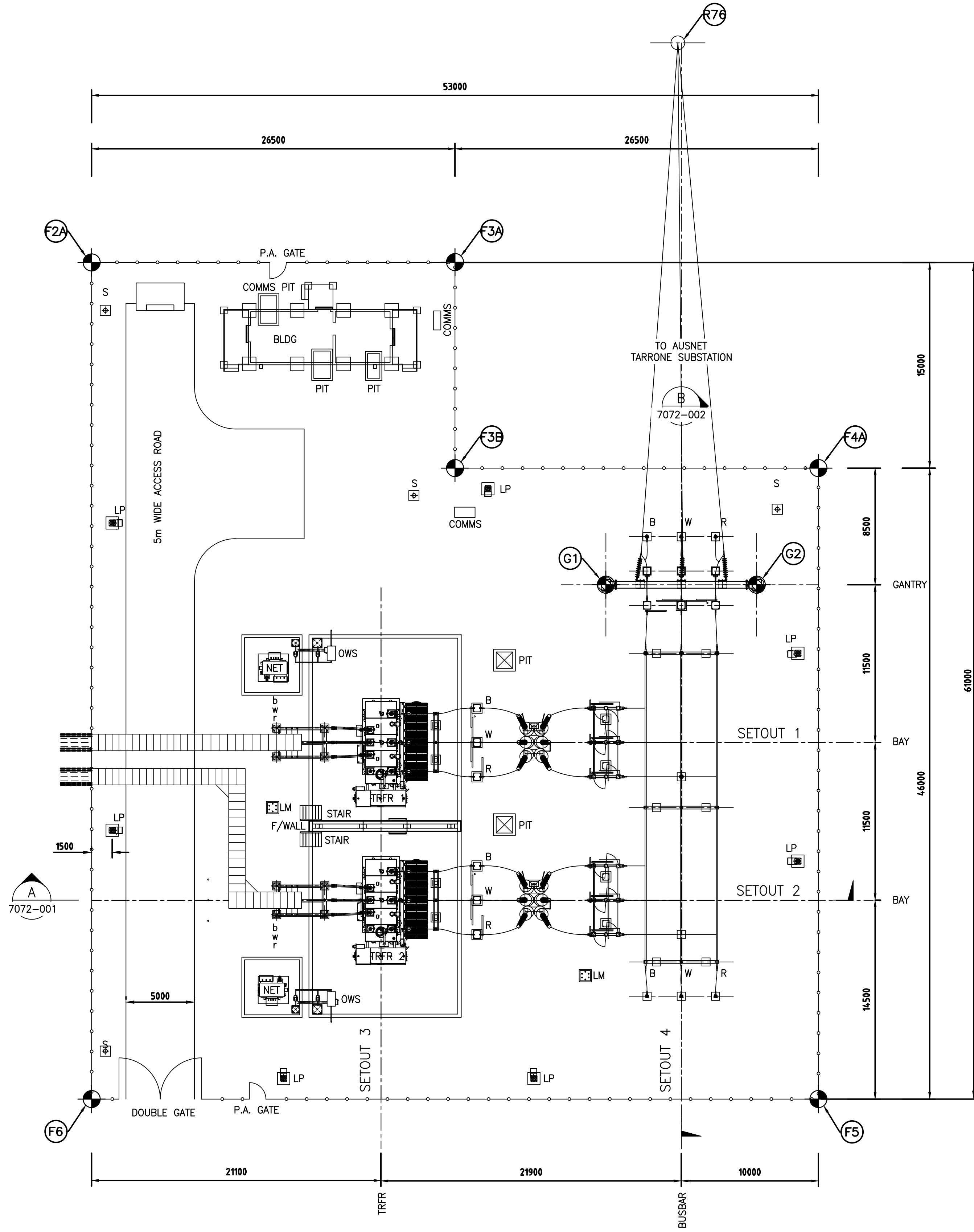
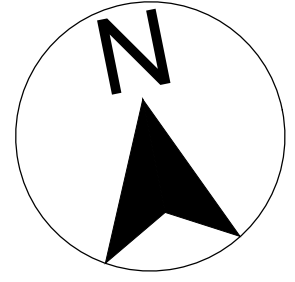
**RYAN CORNER WIND FARM
CIVIL WORKS
MISCELLANEOUS WORKS
GENERAL ARRANGEMENT**

A1 DOCUMENT NUMBER
Project Number Sheet No. Rev.

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

P:\JOB\2020\01\003 - Ryan Corner Wind Farm\Drawings\RCWF-WGA-CI-DR-0410.dwg, 0.23.03.2021 3:31 PM, B. Singh





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
 - c) GROUND SAFETY CLEARANCE 2440mm
 - d) SECTION CLEARANCE 2860mm
- 3.1) EQUIPMENT INTERCONNECTION 132kV
132kV BUSBAR INTERPLANT ϕ 100x6mm SINGLE VENUS
- 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

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

COORDINATE SYSTEM
GDA94/ MGA ZONE 54

G1
X= 598520.4883
Y= 5761776.5364

G2
X= 598531.3453
Y= 5761774.7681

R76
X= 598532.00
Y= 5761814.70

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

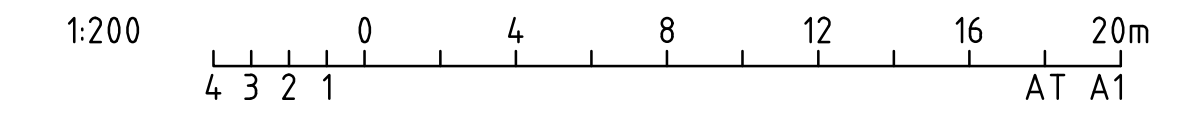
F5
X= 598529.74
Y= 5761737.03

F6
X= 598477.4294
Y= 5761745.5504

PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME

PERMIT NO. 2006/0222-2
Endorsed in accordance with Condition 1
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Sheet 9 of 24

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MINISTER FOR PLANNING
Date: 09/03/2022



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

FOR REVIEW

AusNet_Services STD_A1

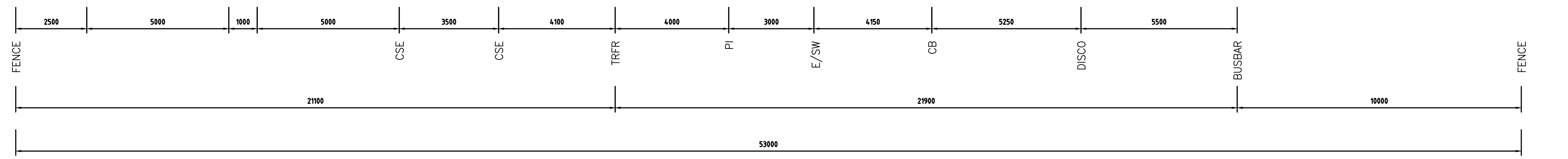
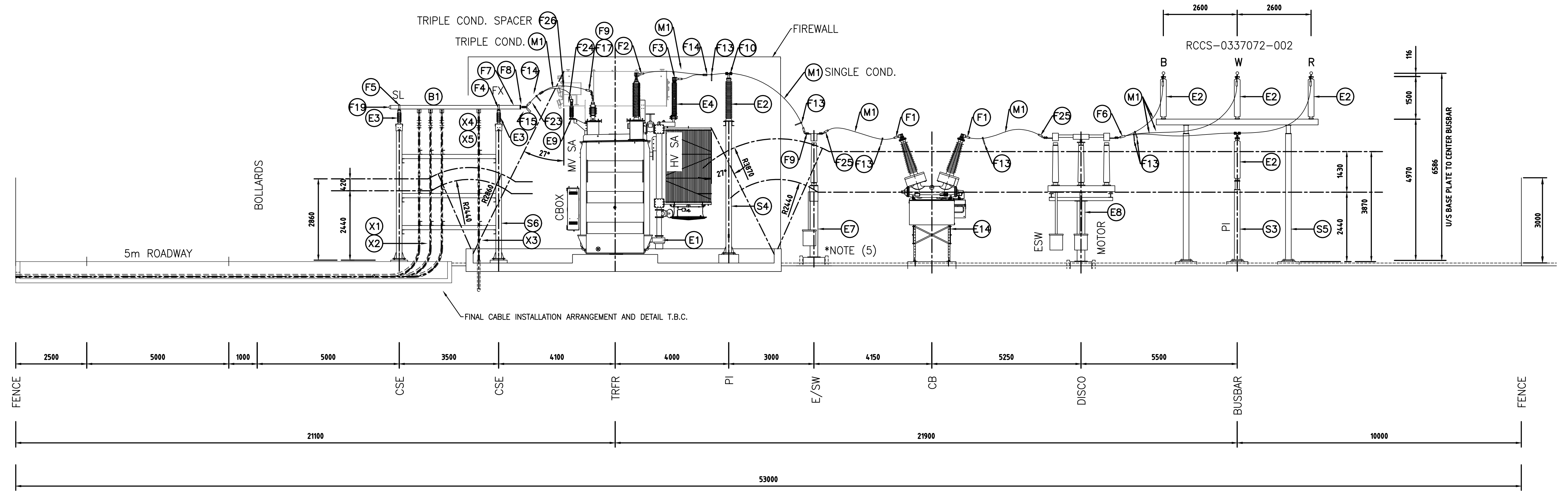
PLANNING and ENVIRONMENT ACT
 MOYNE PLANNING SCHEME

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 Sheet 10 of 24

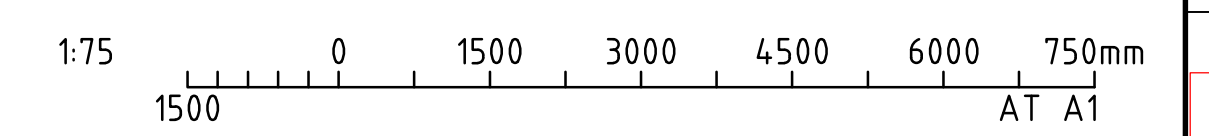
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 MINISTER FOR PLANNING
 Date: 09/03/2022

NOTES:

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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 EARTH SWITCH FOOTING TO BE DETERMINED BASED ON FINAL SURFACE LEVELS IN ORDER TO ACHIEVE REQUIRED SAFETY CLEARANCES



ELEVATION A
 SCALE 1:75 7071-001



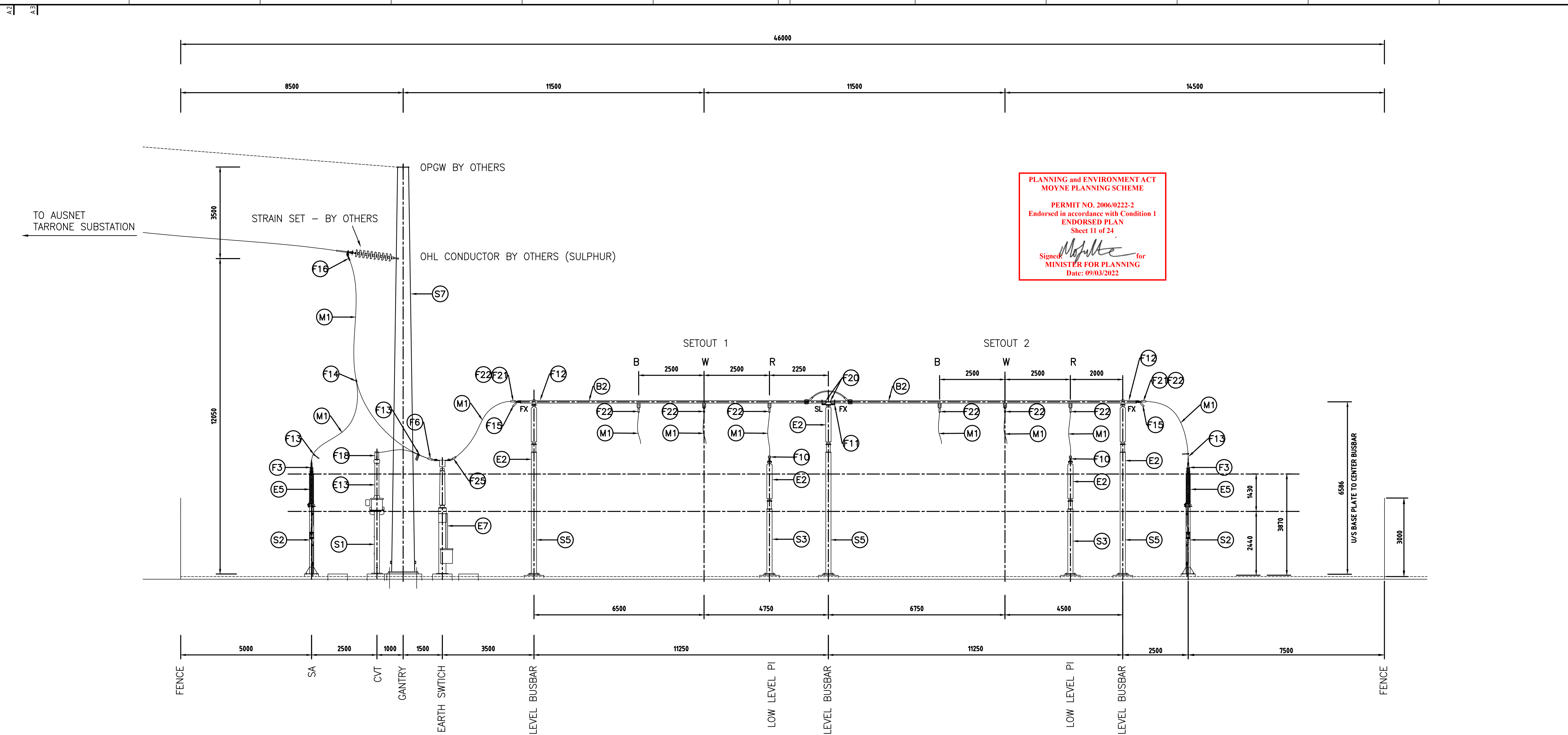
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DRAWING TITLE	DRAWING No.	DATE	REV	DESCRIPTION	BY	CONTRACTOR	Order No. Spec/Quote Contractors No. Manuf No.
							Legacy No. RCCS-0337072-001

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A.2a

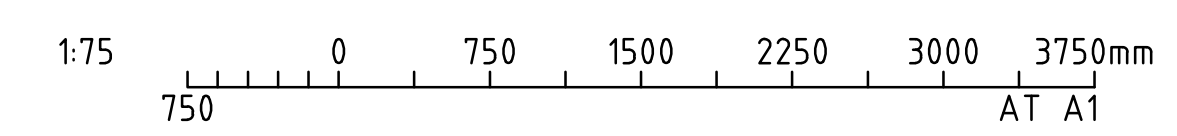


PLANNING and ENVIRONMENT ACT
 MOYNE PLANNING SCHEME
 PERMIT NO. 2006/0222-2
 Endorsed in accordance with Condition 1
 ENDORSED PLAN
 Sheet 11 of 24
 Signed: *[Signature]* for
 MINISTER FOR PLANNING
 Date: 09/03/2022

NOTES:

- 1) ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
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 - 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		REVISION		DATE	REV	DESCRIPTION	BY	CONTRACTOR		SUBSTATION RCCS - RYAN CORNER CLTR STATION		
											132/33kV ELECTRICAL SUBSTATION	
										TYPICAL BUSBAR ELEVATION		
DRAWING TITLE	DRAWING No.									Spec No.	Order No.	Legacy No.
										Issued	Contractors No.	Drawing No.
												RCCS-0337072-002

FOR REVIEW

A.2a

Ryan Corner Wind Farm

Proposed Finishes of On-site Buildings

The substation at Ryan Corner Wind Farm will include four 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
	Columns	Hot dip galvanized
Control Room (Refer to Figure 3 for example and Figure 4 for color specifications)	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 x 900mmW – Colour RAL 9001
	Gutters and Downpipes	Colour RAL 9001
	Substructure	Galvanized in colour
Fence	Simple chain mail fence will be designed to AS1725.1 Class 1 and shall be Galvanized only	

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

PERMIT NO. 2006/0222-2
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Sheet 13 of 24


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Figure 1 Operation Building

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

**PERMIT NO. 2006/0222-2
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Sheet 14 of 24**


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Figure 2 Operation Building

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

**PERMIT NO. 2006/0222-2
Endorsed in accordance with Condition 1
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Sheet 15 of 24**



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Figure 3 Control Room Example

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MOYNE PLANNING SCHEME**

**PERMIT NO. 2006/0222-2
Endorsed in accordance with Condition 1
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Sheet 16 of 24**

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Date: 09/03/2022

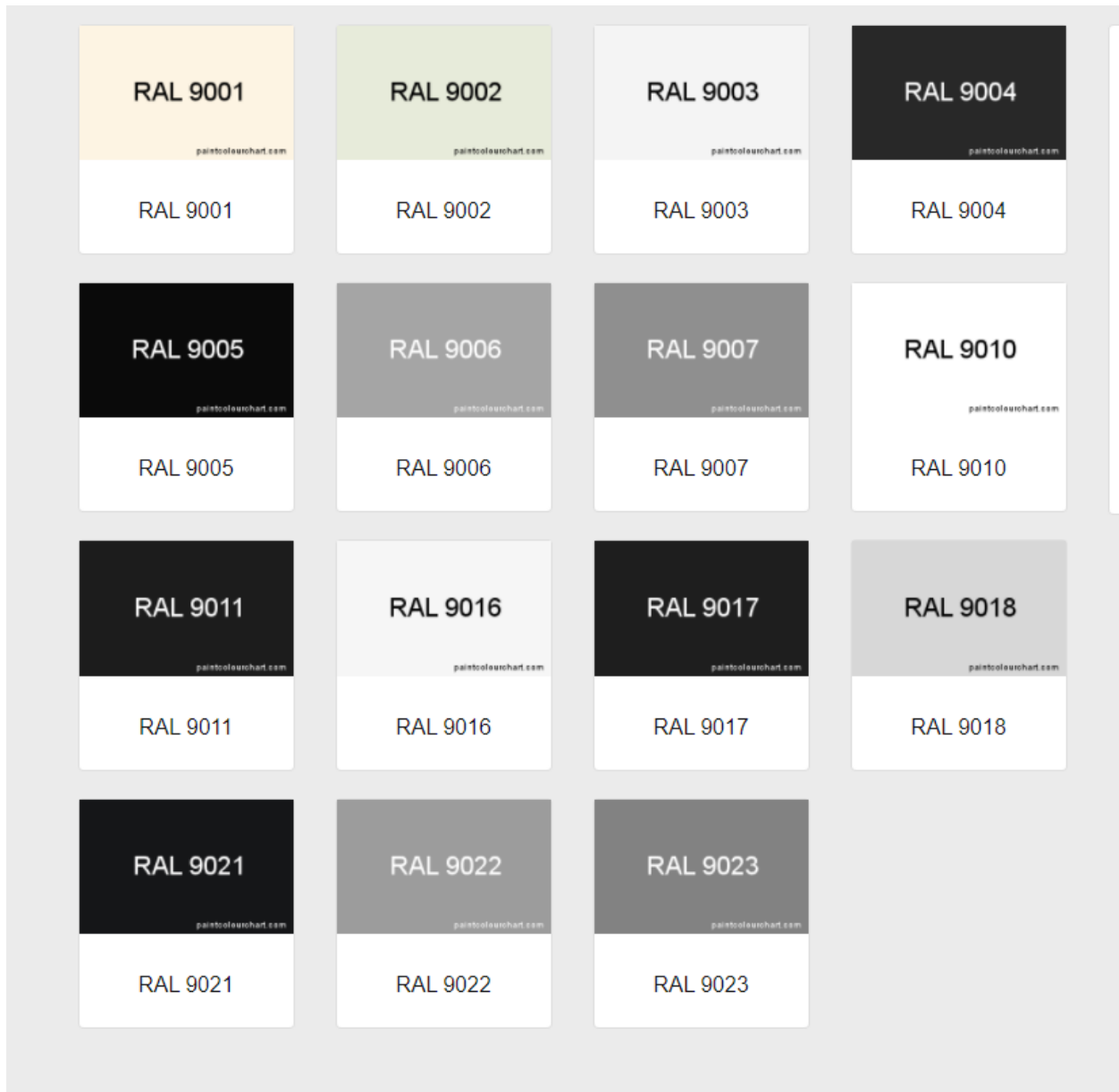



Figure 4 Control Room Color Specifications

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

**PERMIT NO. 2006/0222-2
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ENDORSED PLAN
Sheet 17 of 24**

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ROADSIDE SIGNAGE

2 metres



RYAN CORNER WIND FARM

PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME

NUMBER OF WIND TURBINES: 52

PERMIT NO. 2006/0222-2

Endorsed in accordance with Condition 1

WIND FARM CAPACITY: 218.4 MW

ENDORSED PLAN
Sheet 18 of 24

FOR ANY ENQUIRIES:

POSTAL ADDRESS: *Signed* RYAN CORNER DEVELOPMENT PTY LTD
MINISTER FOR PLANNING

Suite 4 Level 3, 24 Marcus Clarke Street, Canberra, ACT 2600

TELEPHONE: +61 2 6274 3200

EMAIL: info@globalpower-generation.au

1 metre

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	06.12.16	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

Figure 2-A1: RCWF native vegetation to be impacted

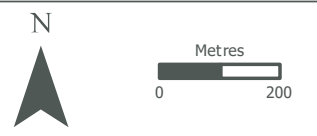
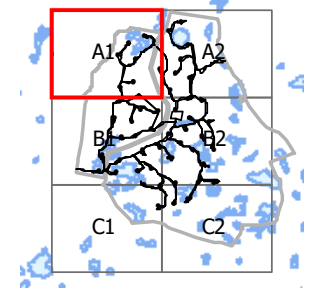
Project: Ryan Corner Wind Farm
Client: Ryan Corner Development Pty Ltd
Date: 23/11/2021

-  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

PLANNING and ENVIRONMENT ACT
 MOYNE PLANNING SCHEME

PERMIT NO. 2006/0222-2
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 Sheet 19 of 24

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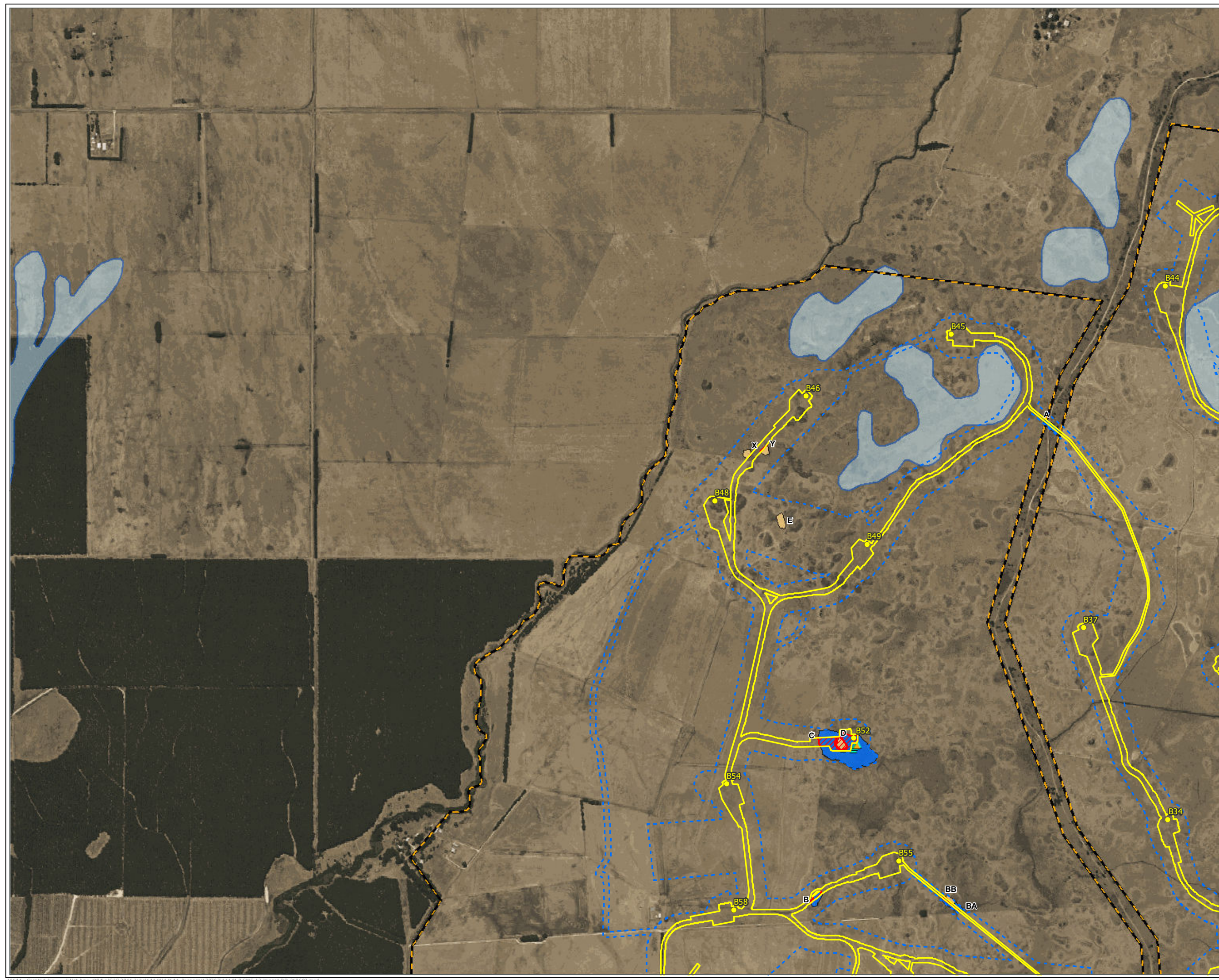


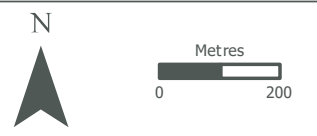
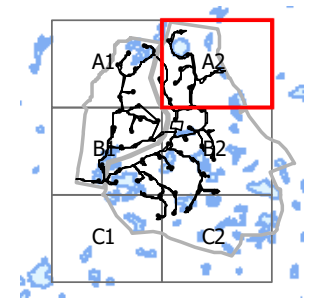
Figure 2-A2: RCWF native vegetation to be impacted

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

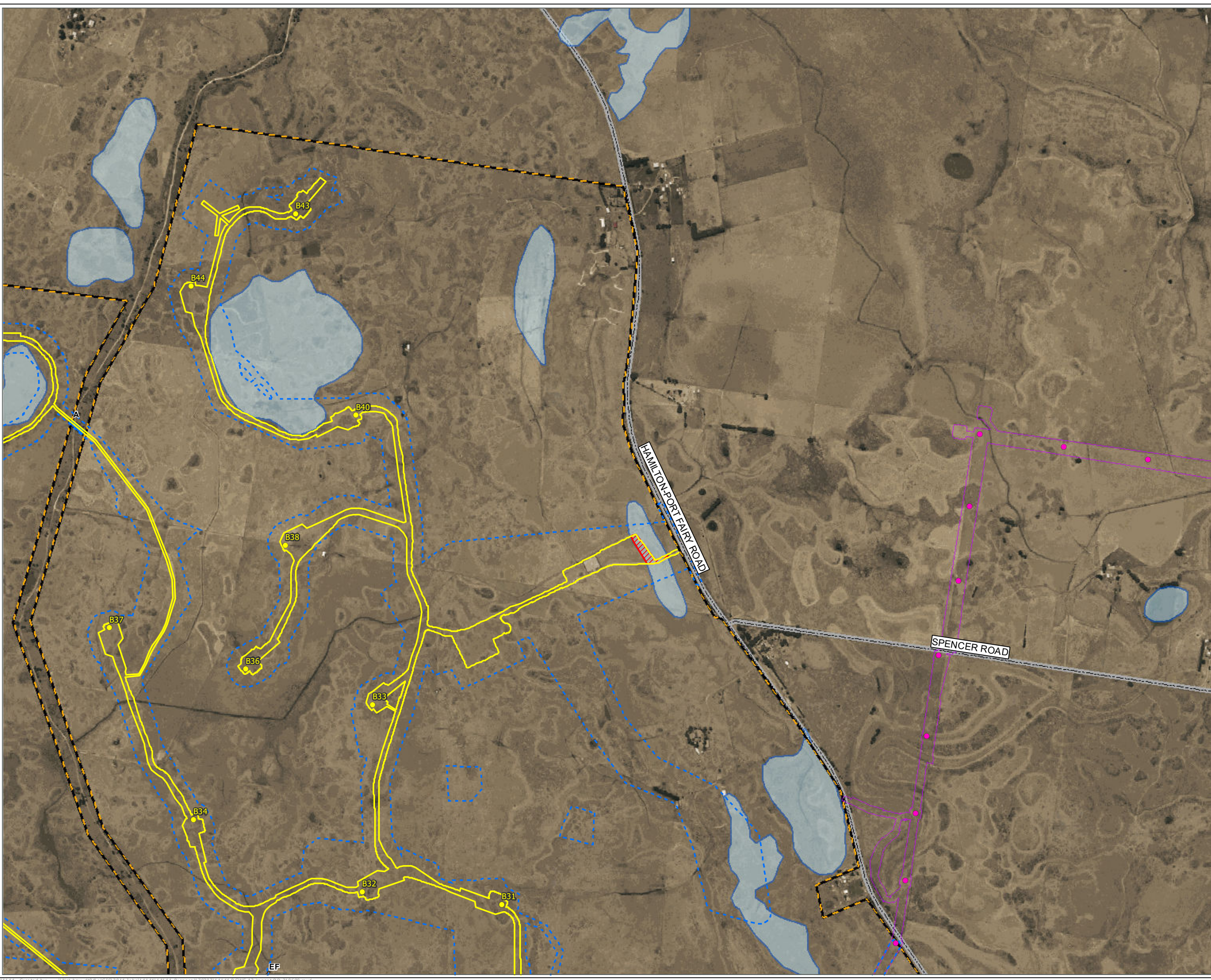
- - - Combined study area
- Combined TXL study area
- Development footprint
- Proposed turbine locations
- Pole location
- Native vegetation**
- Plains Grassy Wetland (EVC 125)
- Stony Knoll Shrubland (EVC 649)
- DELWP wetlands
- Native vegetation to be removed

PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME
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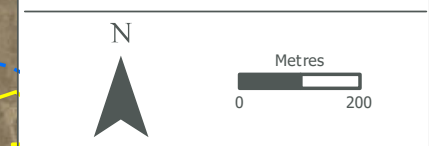
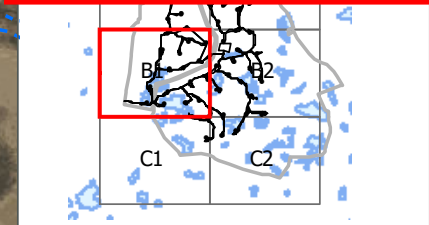
Figure 2-B1: RCWF native vegetation to be impacted

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

- 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

ENVIRONMENT ACT
MOYNE PLANNING SCHEME
PERMIT NO. 2006/0222-2
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ENDORSED PLAN
 Sheet 21 of 24
 Signed: for
MINISTER FOR PLANNING
 A1 2006 02022022



















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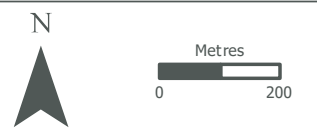
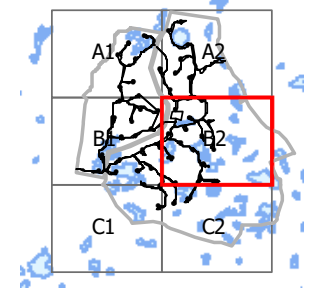


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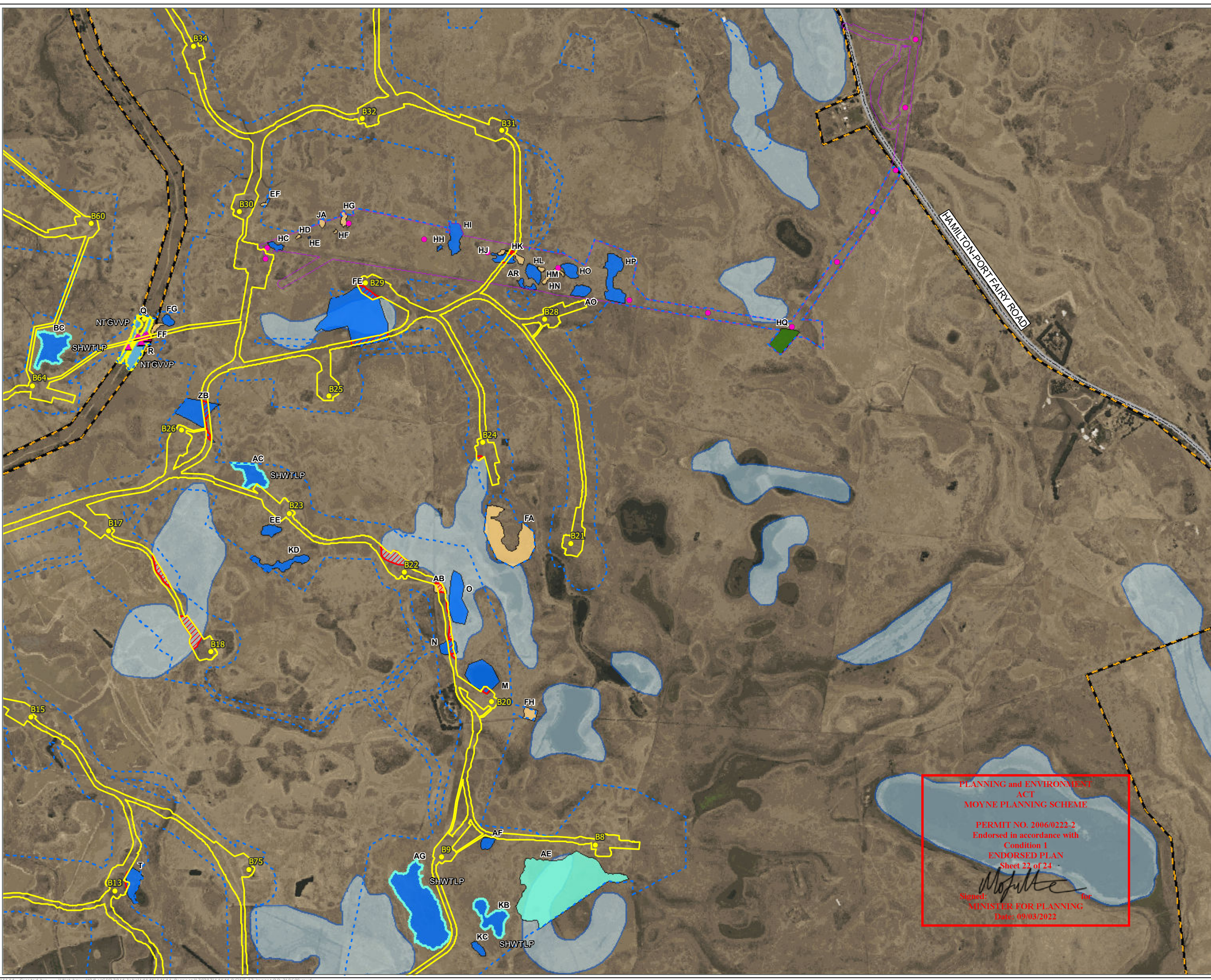
Figure 2-B2: RCWF native vegetation to be impacted

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



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PLANNING and ENVIRONMENT ACT
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 MINISTER FOR PLANNING
 Date: 09/03/2022

Figure 2-C1: RCWF native vegetation to be impacted

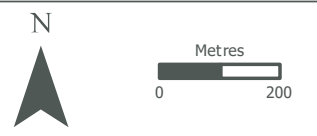
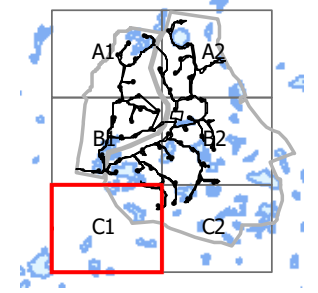
Project: Ryan Corner Wind Farm
Client: Ryan Corner Development Pty Ltd
Date: 23/11/2021

-  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**

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Figure 2-C2: RCWF native vegetation to be impacted

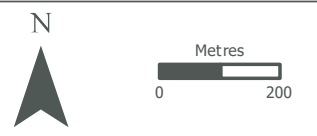
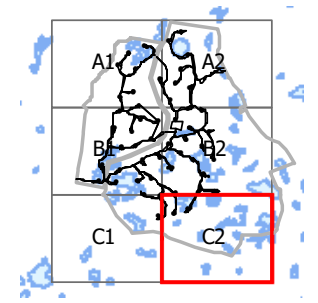
Project: Ryan Corner Wind Farm
Client: Ryan Corner Development Pty Ltd
Date: 23/11/2021

-  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

**PLANNING and ENVIRONMENT ACT
 MOYNE PLANNING SCHEME**

PERMIT NO. 2006/0222-2
 Endorsed in accordance with Condition 1
ENDORSED PLAN
 Sheet 24 of 24

Signed  for
MINISTER FOR PLANNING
 Date: 09/03/2022



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