

PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME
PA20060221-2 DEVELOPMENT PLANS
ENDORSED PLAN
 Sheet 1 of 12
 Signed: *[Signature]* for
MINISTER FOR PLANNING
 Date: 6 DECEMBER 2021

Legend

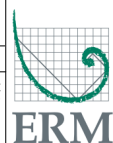
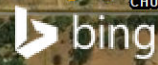
- ✕ Turbine Location
- ⊙ Site Access
- Dwelling (Stakeholder)
- Dwelling (Non-stakeholder)
- Proposed Access Tracks
- Existing Roads to Upgrade
- - - Temporary Farm Dam Access
- - - Proposed Cabling
- Site Compound
- Concrete Batching Plant
- Substation (Approved)
- Farm Dam
- ⋯ 1 km Turbine Buffer (Approved)
- ⋯ 1km Turbine Buffer (Proposed)
- Site Boundary
- - - Existing Transmission Line

Source:
 Cadastre : DELWP Vicmap 2020
 Imagery : Bing Maps Hybrid
 Layout : Client Provided 20 Jan 2021

Layout Infrastructure	Distance to Nearest Site Boundary
Concrete Batching Plant	291 m
On-site Substation	657 m
Site Compound	99 m

Proposed Site Layout

Drawing No: 0105123_001_HDWF_Layout_R6.mxd	Hawkesdale Wind Farm	
Date: 02/09/2021	Drawing Size: A3	
Drawn By: GR	Reviewed By: GAA	Client: Ryan Comer Development Pty Ltd
Coordinate System: GDA 1994 MGA Zone 54		
<p>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.</p>		






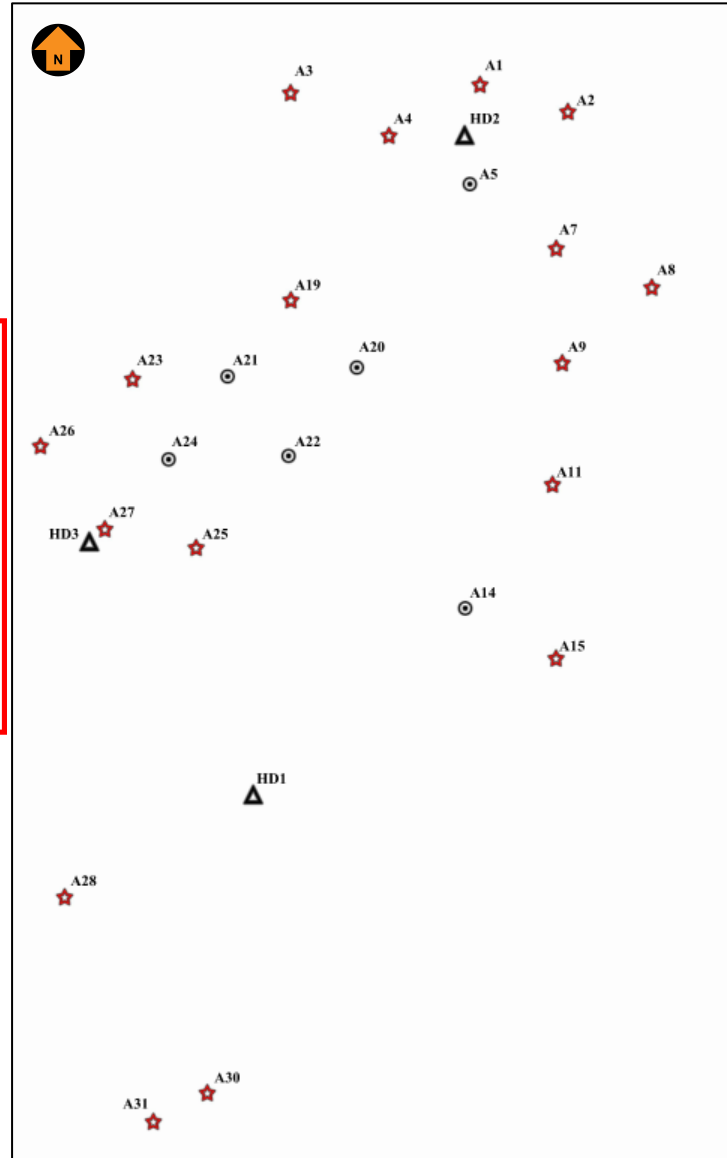
**PLANNING and ENVIRONMENT ACT
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Sheet 2 of 12

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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 Permit Amendment No. 20060221-A, dated 21 December 2017
- Victoria State Government, Department of Environment, Land, Water and Planning, Guidelines, Development of wind energy facilities in Victoria, 2017.

**HAWKESDALE WIND FARM –
OBSTACLE LIGHTING PLAN**

Project:
100404-02.1

Prepared by:
P Davidyuk

Version:
1.0_201026

Scale:
Not to scale

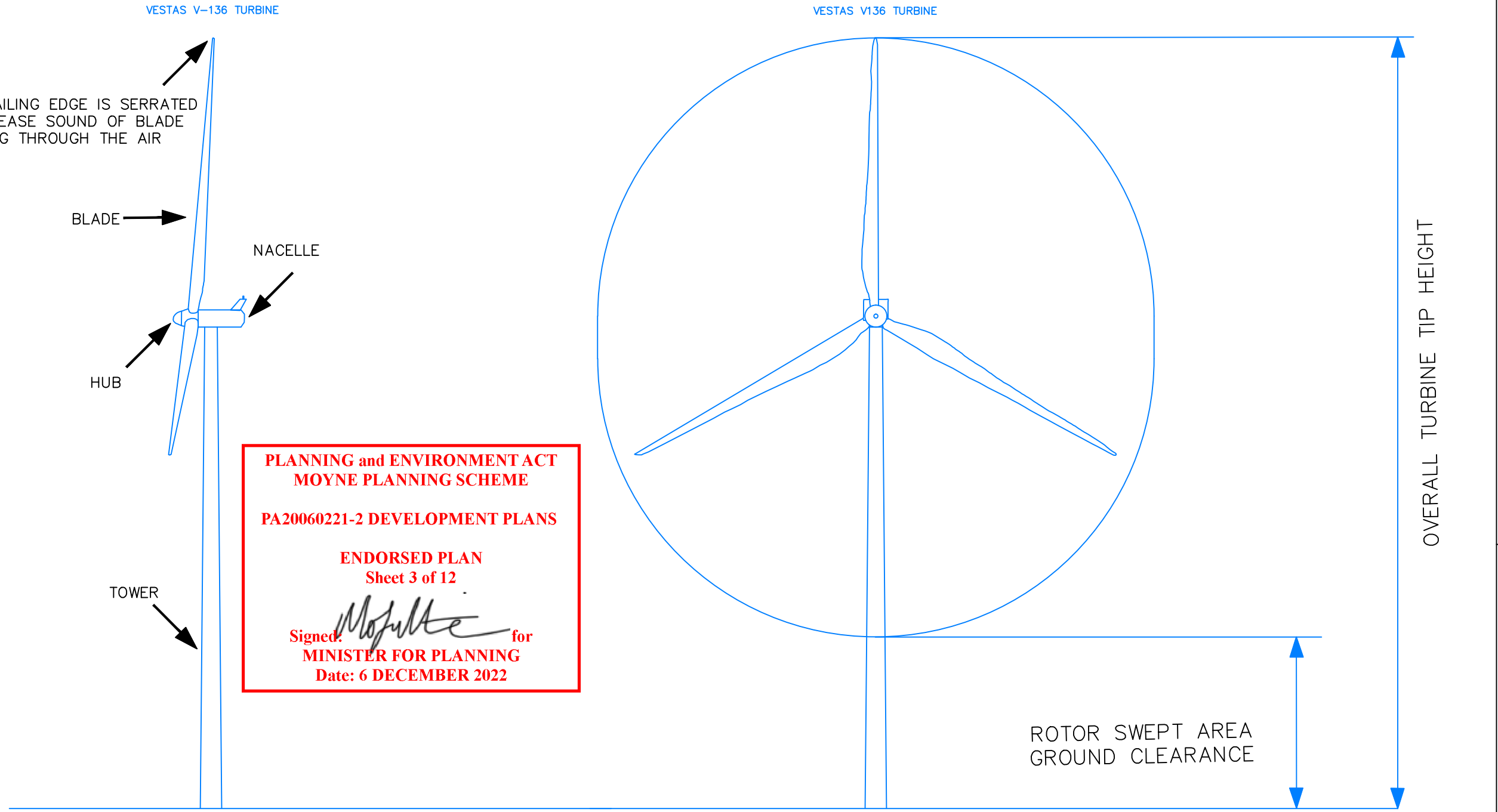
Date:
26/10/20

Page: **1 out 1**



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A3



**PLANNING and ENVIRONMENT ACT
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PA20060221-2 DEVELOPMENT PLANS

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 Sheet 3 of 12

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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 SWEPT AREA GROUND CLEARANCE (m)	TOWER HEIGHT (m)	ROTOR DIAMETER (m)
VESTAS V-136 4.2MW	23	180	44	112	136



VER	DATE	DRAWN	REVIEW	ENDORSED	REVISION COMMENT
11	13.01.2021	GR	GAC		Revised for Endorsement. Add "Serrated" Comment
10	28.10.2020	GR	GAC		Revised for Endorsement
9	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: HAWKESDALE WIND FARM DEVELOPMENT PLAN

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

DRAWING No:
RCWF-DP-02-v11

SHEET 1 OF 1

CONCRETE BATCH PLANT
10000 m²

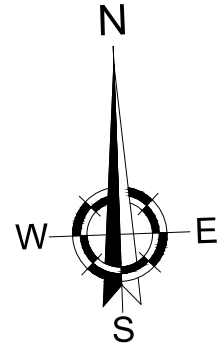
BP4

BP3

6.00

SC1

SC2



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**ENDORSED PLAN
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Vestas Laydown Area
4600 m²

Cable Trench

62.00

30.00

39.00

25.00

11.00

Heavy Vehicle Carpark &
Material Laydown
3680 m²

82 Light Vehicle Carparks
2184 m²

Vestas Site Compound
20x36m. (720m²)

SC4

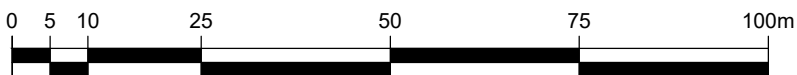
20.00

36.00

SC3

BMD Site Compound
1296 m²

ACCESS TRACK



GRAPHIC SCALE

**HAWKESDALE WIND FARM
Temporary Construction Areas**



Date: 22/09/2021

TURBINE ID	General Layout Coordinates 23/09/2020		HDWF Approved Locations August 2008		HDWF Microsited Locations 6th March 2017	
	AGD66-AMG Zone 54 Coordinates (m.)		AGD66-AMG Zone 54 Coordinates (m.)		AGD66-AMG Zone 54 Coordinates (m.)	
	Eastings (X)	Northings (Y)	Eastings (X)	Northings (Y)	Eastings (X)	Northings (Y)
A1	619,551	5,780,999	619,551	5,780,999	619,551	5,780,999
A2	620,052	5,780,838	620,142	5,780,838	620,052	5,780,838
A3	618,466	5,780,969	618,431	5,781,005	618,466	5,780,969
A4	619,026	5,780,716	619,080	5,780,769	619,026	5,780,716
A5	619,489	5,780,437	619,489	5,780,437	619,489	5,780,437
A6			620,407	5,780,368		
A7	619,974	5,780,059	620,041	5,779,992	619,974	5,780,059
A8	620,518	5,779,829	620,613	5,779,829	620,518	5,779,829
A9	619,999	5,779,406	619,999	5,779,406	619,999	5,779,406
A10			620,517	5,778,955	620,423	5,778,955
A11	619,933	5,778,714	619,933	5,778,794	619,933	5,778,714
A12			619,892	5,778,268		
A13			620,414	5,778,204	620,319	5,778,204
A14	619,427	5,778,019	619,427	5,778,019	619,427	5,778,019
A15	619,939	5,777,722	619,939	5,777,722	619,939	5,777,722
A16			619,615	5,777,601		
A17			619,230	5,777,197	619,230	5,777,292
A18			619,500	5,776,923		
A19	618,450	5,779,788	618,450	5,779,788	618,450	5,779,788
A20	618,826	5,779,402	618,826	5,779,402	618,826	5,779,402
A21	618,085	5,779,362	618,085	5,779,362	618,085	5,779,362
A22	618,427	5,778,904	618,427	5,778,904	618,427	5,778,904
A23	617,535	5,779,352	617,535	5,779,352	617,535	5,779,352
A24	617,739	5,778,894	617,739	5,778,894	617,739	5,778,894
A25	617,885	5,778,384	617,885	5,778,384	617,885	5,778,384
A26	617,000	5,778,978	616,947	5,779,031	617,000	5,778,978
A27	617,363	5,778,498	617,363	5,778,498	617,363	5,778,498
A28	617,098	5,776,397	617,098	5,776,397	617,098	5,776,397
A29			617,363	5,776,122		
A30	617,900	5,775,264	617,995	5,775,264	617,900	5,775,264
A31	617,587	5,775,103	617,682	5,775,103	617,587	5,775,103

**PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME**

PA20060221-2 DEVELOPMENT PLANS

ENDORSED PLAN

Sheet 5 of 12

Signed:  for

MINISTER FOR PLANNING

Date: 6 DECEMBER 2022

ROADSIDE SIGNAGE

2 metres



HAWKESDALE WIND FARM

NUMBER OF WIND TURBINES: 23

WIND FARM CAPACITY: 96.6 MW

FOR ANY ENQUIRIES:

POSTAL ADDRESS: HAWKESDALE ASSET 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

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Sheet 6 of 12**

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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

HAWKESDALE ASSET PTY LTD

PROJECT TITLE: HAWKESDALE WIND FARM DEVELOPMENT PLAN

PLAN TITLE: ROADSIDE SIGNAGE DETAILS
23 TURBINE LAYOUT - 96.6 MW

SCALE: 1:10

Plan:
DRAWING No: HDWF-DP-05-v04
SHEET 1 OF 1

Hawkesdale Wind Farm – Distance of Each Turbine to the Nearest Property Boundary (June 2021)

T_ID	Distance to Site Boundary (m)	Distance to nearest dwelling (m)	HouseID	Stakeholder
A1	170	1540	HW61	y
A2	207	1019	HW61	y
A3	194	1687	HW72	n
A4	459	2038	HW61	y
A5	720	1599	HW61	y
A7	987	1271	HW61	y
A8	963	1039	HW61	y
A9	1482	1628	HW60	n
A11	880	1599	HW59	n
A14	912	1119	HW90	y
A15	397	620	HW90	y
A19	181	1711	HW101	n
A20	583	2175	HW101	n
A21	184	1514	HW101	n
A22	680	2011	HW164	y
A23	193	1079	HW101	n
A24	651	1558	HW101	n
A25	1161	1334	HW164	y
A26	566	1119	HW53	n
A27	924	1422	HW164	y
A28	1030	770	HW166	y
A30	298	1276	HW165	n
A31	353	1540	HW165	n

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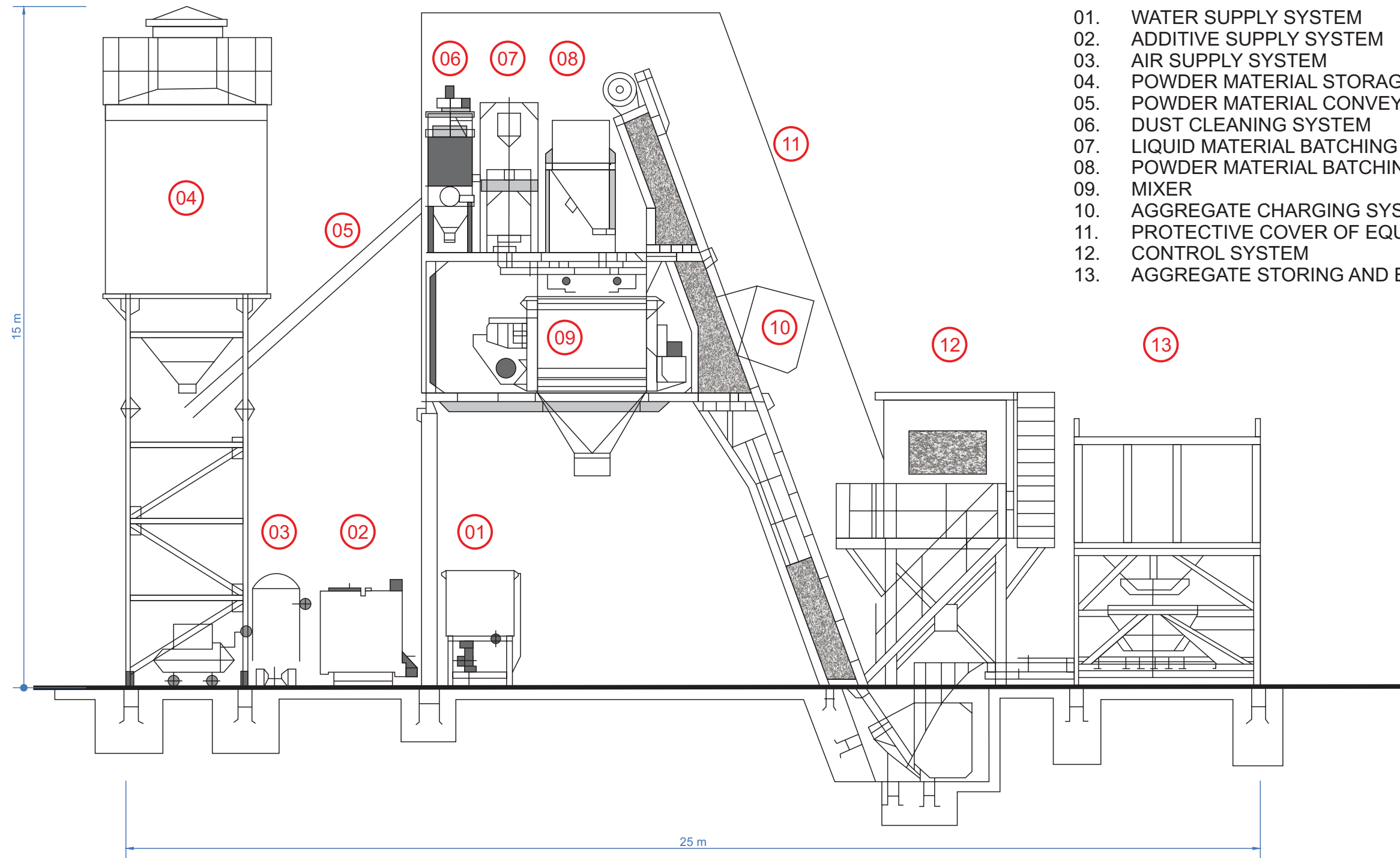
ENDORSED PLAN

Sheet 7 of 12

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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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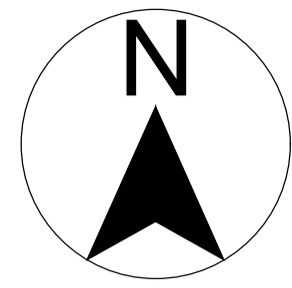
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Sheet 8 of 12**

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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: HAWKESDALE WIND FARM DEVELOPMENT PLAN						
PLAN TITLE: CONCRETE BATCH PLANT ELEVATION						SCALE: 1:100
 A subsidiary of Gas Natural Fenosa						Plan: DRAWING No: HDWF-DP-06-v01
						SHEET 1 OF 1



60,95

40

9

31

F1

F2

AUSNET ACCESS

COORDINATE SYSTEM
GDA94/ MGA ZONE 54

H45
X= 619131.5
Y= 5777617.8

COORDINATE SYSTEM
GDA94/ MGA ZONE 54

G1
X= 619192.45
Y= 5777625.25

G2
X= 619192.45
Y= 5777614.25

COORDINATE SYSTEM
GDA94/ MGA ZONE 54

F1
X= 619220
Y= 5777670

F2
X= 619260
Y= 5777670

F3
X= 619260
Y= 5777550

F4
X= 619180
Y= 5777550

F5
X= 619180
Y= 5777632

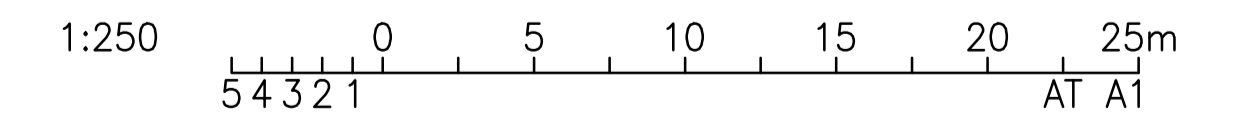
F6
X= 619229
Y= 5777632

F7
X= 619229
Y= 5777590

F8
X= 619180
Y= 5777590

LEGEND

- SITE BOUNDARY
- SUBSTATION PERIMETER FENCE



TO AUSNET
TARRONE SUBSTATION

GPG ACCESS

5m WIDE ROADWAY

WIND FARM SITE AREA
(BY OTHERS)

PLANNING and ENVIRONMENT ACT
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PA20060221-2 DEVELOPMENT PLANS

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Sheet 9 of 12

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Date: 6 DECEMBER 2022

NOTE

1. WIND FARM SITE AREA REFERENCE: CPP DRAWING HDWF-EL-DR-0502 REV C-01
2. HAWKESDALE WIND FARM SUBSTATION COORDINATES SETOUT BASED ON INFORMATION PROVIDED (PROPOSED LOCATION FOR SUBSTATION V0.6) (18/02/2021) F5, F6, F7 AND F8

DATE	REV	DESCRIPTION	BY	CONTRACTOR	ISSUED	Order No.	Legacy No.
30.09.21	A.2	FOR REVIEW RE-ISSUE (TC-0012062)	JA	CPP	ENDORSED		
08.09.21	A.1	FOR REVIEW ISSUE (TC-0012062)	JA	CPP	ISSUED		

DRAWING TITLE		DRAWING No.		DATE		REV		DESCRIPTION		BY		CONTRACTOR		ISSUED		Order No.		Legacy No.	

DRAWING TITLE		DRAWING No.		DATE		REV		DESCRIPTION		BY		CONTRACTOR		ISSUED		Order No.		Legacy No.	

DRAWING TITLE		DRAWING No.		DATE		REV		DESCRIPTION		BY		CONTRACTOR		ISSUED		Order No.		Legacy No.	



SUBSTATION HDCS - HAWKESDALE CLTR STATION
132/33kV ELECTRICAL LAYOUT
SITE PLAN

Spec No. Order No. Legacy No.
Contractors No. Drawing No.
Manuf No. HDCS-0336915-001

A.2

FOR REVIEW

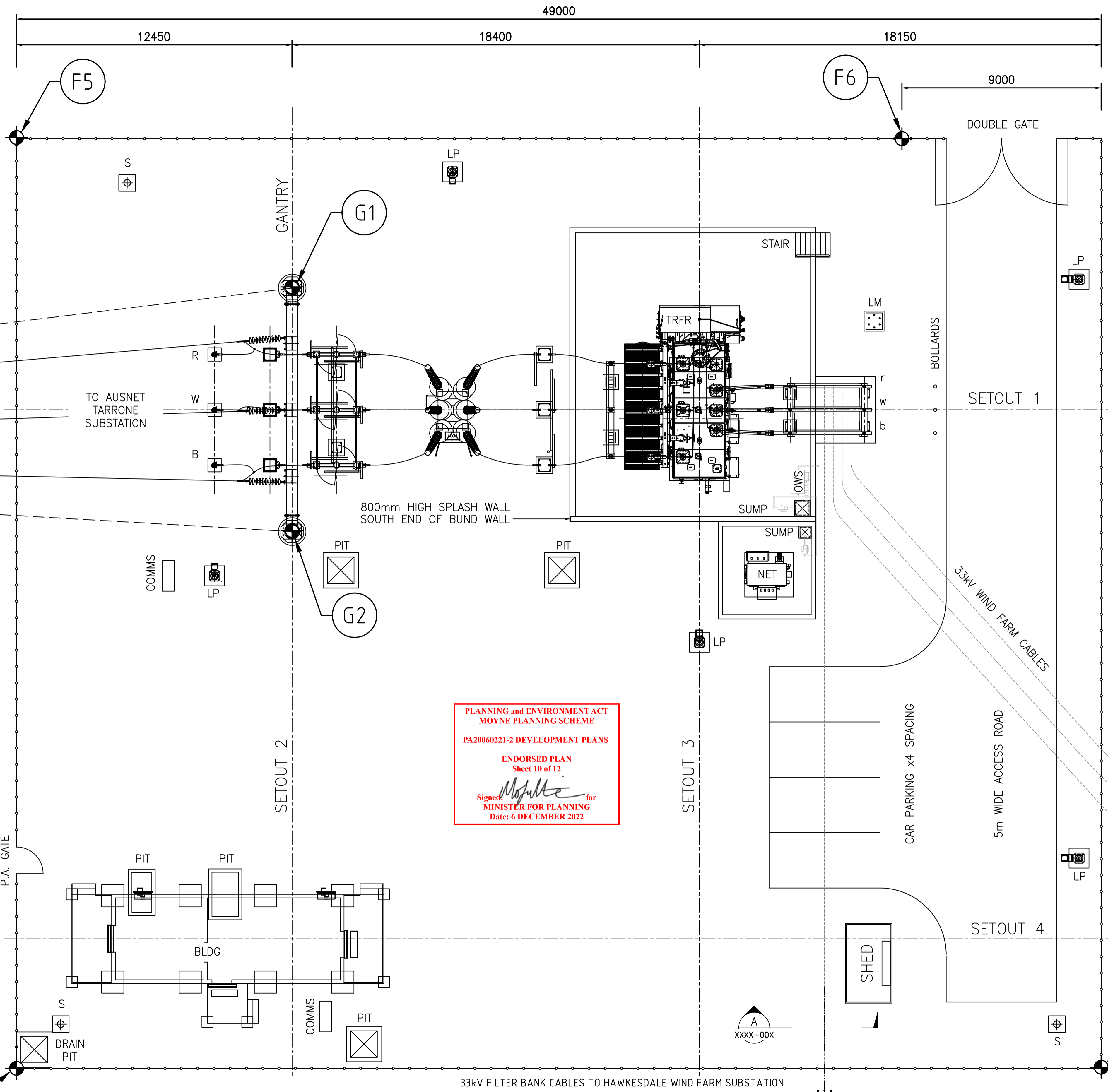
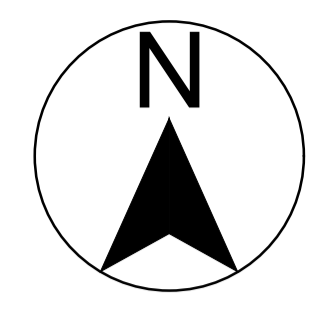
AusNet_Services STD_A1

561 X 801
A1

[UNCONTROLLED WHEN PRINTED]

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[A1]



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 (170kVp B.I.L.) ELECTRICAL CLEARANCES IN ACCORDANCE WITH AS 2067 (TABLE 3.1)
 - a) BETWEEN PHASES 370mm
 - b) BETWEEN PHASE TO EARTH (PH TO E) 320mm
 - c) GROUND SAFETY CLEARANCE 2440mm
 - d) SECTION CLEARANCE 2790mm
- 3.1) EQUIPMENT INTERCONNECTION INTERPLANT 132kV SINGLE VENUS
- 3.2) EQUIPMENT INTERCONNECTION 33kV BUSBAR INTERPLANT 33kV Ø125x10mm 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 - 1000lt/hr

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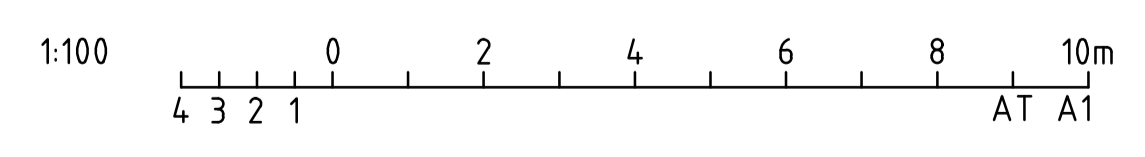
**COORDINATE SYSTEM
GDA94/ MGA ZONE 54**

F5
X= 619180
Y= 5777632

F6
X= 619229
Y= 5777632

F7
X= 619229
Y= 5777590

F8
X= 619180
Y= 5777590



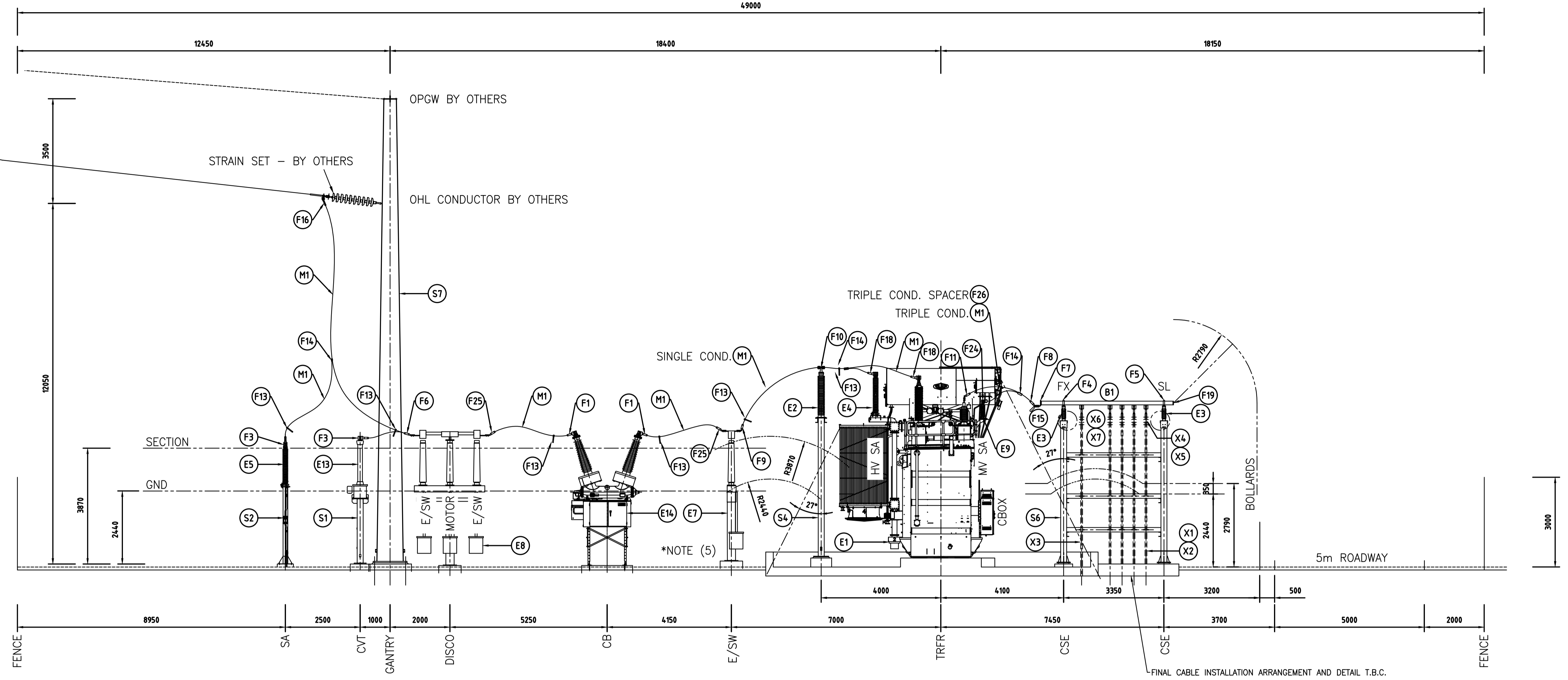
F8 COORDINATES SETOUT BASED ON INFORMATION PROVIDED (PROPOSED LOCATION FOR SUBSTATION v0.6) (18/02/2021) F5, F6, F7 AND F8

REFERENCE DRAWINGS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>									REVISION <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>																	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">DATE</td> <td style="width: 10%;">REV</td> <td style="width: 50%;">DESCRIPTION</td> <td style="width: 10%;">BY</td> <td style="width: 10%;">CONTRACTOR</td> </tr> <tr> <td>30.09.21</td> <td>A.1</td> <td>FOR REVIEW (TC-0012062)</td> <td>JA</td> <td>CPP</td> </tr> </table>	DATE	REV	DESCRIPTION	BY	CONTRACTOR	30.09.21	A.1	FOR REVIEW (TC-0012062)	JA	CPP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Spec No.</td> <td style="width: 15%;">Order No.</td> <td style="width: 15%;">Legacy No.</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	Spec No.	Order No.	Legacy No.										<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">DRAWING TITLE</td> <td style="width: 15%;">DRAWING No.</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	DRAWING TITLE	DRAWING No.			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">ENDORSED DATE</td> <td style="width: 15%;">Order No.</td> <td style="width: 15%;">Legacy No.</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	ENDORSED DATE	Order No.	Legacy No.										<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">DRAWING No.</td> <td style="width: 15%;">Drawing No.</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	DRAWING No.	Drawing No.		
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ENDORSED DATE	Order No.	Legacy No.																																																																						
DRAWING No.	Drawing No.																																																																							
SUBSTATION HDCS - HAWKESDALE CLTR STATION 132/33kV ELECTRICAL SUBSTATION PLAN		HDCS-0336912-001		A.1																																																																				

FOR REVIEW

AusNet Services STD. A1

TO AUSNET
TARRONE SUBSTATION



NOTES:

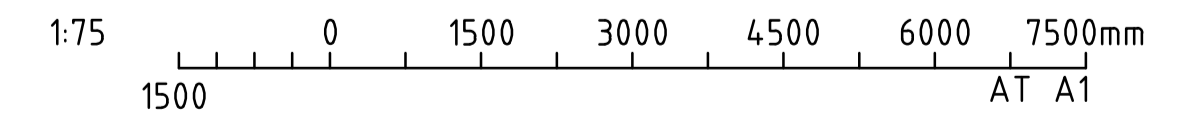
- 1) ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- 2.1) MINIMUM 132kV (650kVp B.I.L.) ELECTRICAL CLEARANCES IN ACCORDANCE WITH AS 2067 (TABLE 3.1)
 - a) BETWEEN PHASES 1495mm
 - b) BETWEEN PHASE TO EARTH (PH TO E) 1300mm
 - c) GROUND SAFETY CLEARANCE 2440mm
 - d) SECTION CLEARANCE 3870mm
- 2.2) MINIMUM 33kV (170kVp B.I.L.) ELECTRICAL CLEARANCES IN ACCORDANCE WITH AS 2067 (TABLE 3.1)
 - a) BETWEEN PHASES 370mm
 - b) BETWEEN PHASE TO EARTH (PH TO E) 320mm
 - c) GROUND SAFETY CLEARANCE 2440mm
 - d) SECTION CLEARANCE 2790mm

NOTES:

- 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 6912-001

PLANNING and ENVIRONMENT ACT
MOYNE PLANNING SCHEME
PA20060221-2 DEVELOPMENT PLANS
ENDORSED PLAN
Sheet 11 of 12
Signed: *[Signature]* for
MINISTER FOR PLANNING
Date: 6 DECEMBER 2022



- 3.1) EQUIPMENT INTERCONNECTION INTERPLANT 132kV SINGLE VENUS
- 3.2) EQUIPMENT INTERCONNECTION 33kV BUSBAR INTERPLANT 33kV Ø125x10mm TRIPLE VENUS
- 4) 132kV FAULT LEVEL STRUCTURAL DESIGN = 31.5kA, 1 sec
33kV FAULT LEVEL STRUCTURAL DESIGN = 25kA, 1 sec

REFERENCE DRAWINGS	REVISION	DATE	REV	DESCRIPTION	BY	CONTRACTOR	ISSUED	ENDORSED DATE	Spec No.	Order No.	Legacy No.
		30.09.21	A.1	FOR REVIEW (TC-0012062)	JA	CPP					
DRAWING TITLE								SUBSTATION HDCS - HAWKESDALE CLTR STATION		132/33kV ELECTRICAL SUBSTATION	
DRAWING No.								HDCS-0336913-001		A.1	

FOR REVIEW

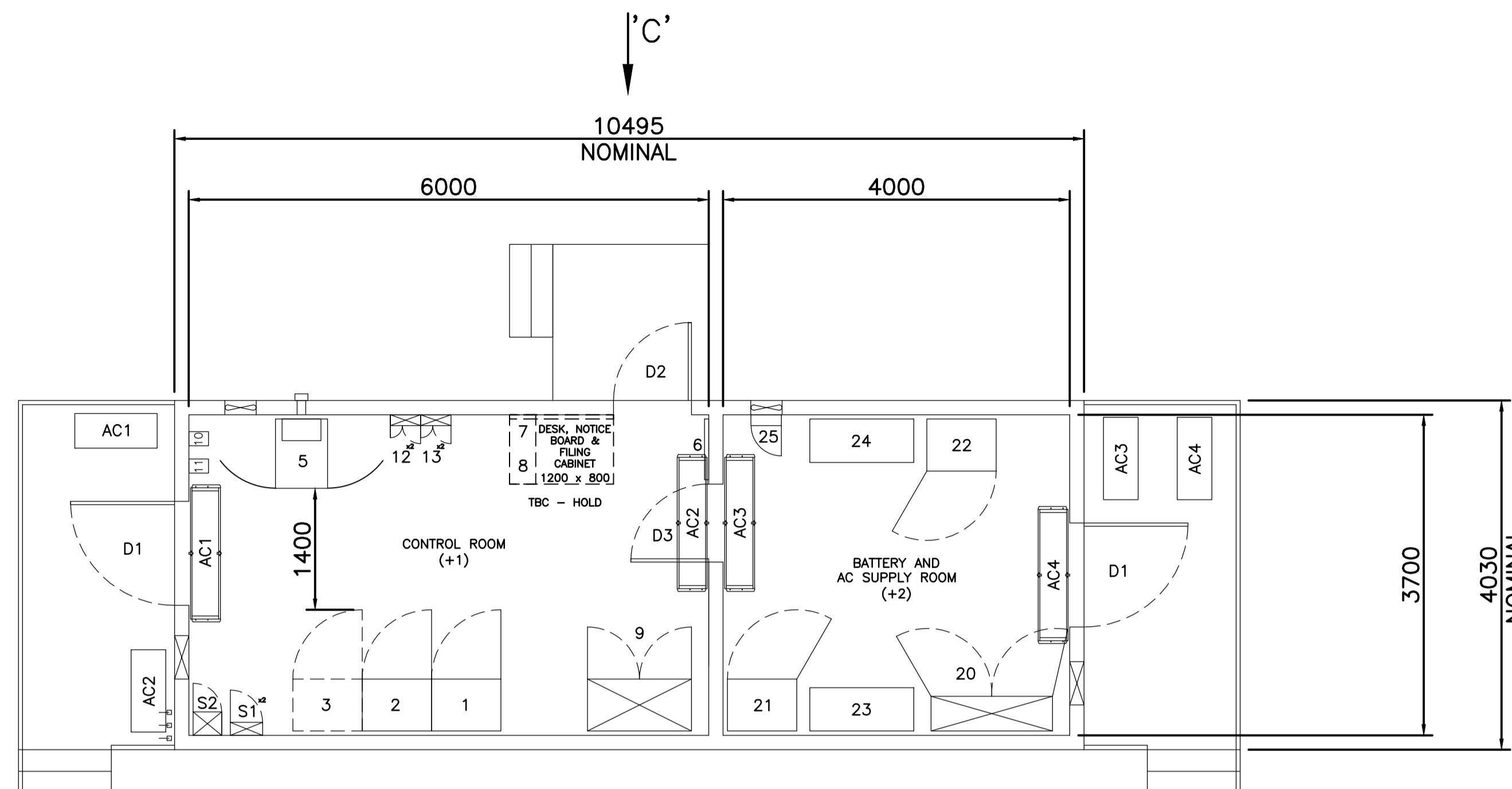
CONTROL CUBICLES AND EQUIPMENT			
CONTROL ROOM (+1)			DIM. (WxDxH)
1	+1D01	132kV TRTS LINE 'X' AND 'Y' PROTECTION PANEL (BY AUSNET)	800x600x2200
2	+1TF1	132/33kV TRANSFORMER 1 'X' AND 'Y' PROTECTION PANEL	800x600x2200
3		SPARE FOR FUTURE	
4			
5	+1X01	MUX / COMMS PANEL (BY AUSNET)	800x600x2300
6		KEYBOARD	
7		NOTICE BOARD	
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 HDWF 2 OFF (2x2) (BY GPG)	
13		FIBRE OPTIC TERMINATION BOX A&B TO HDWF 2 OFF (2x2) (BY GPG)	

BATTERY AND AC SUPPLY ROOM (+2)			DIM. (WxDxH)
20	+2H01	400V AC CHANGEOVER & DISTRIBUTION BOARD	1400x400x1800
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

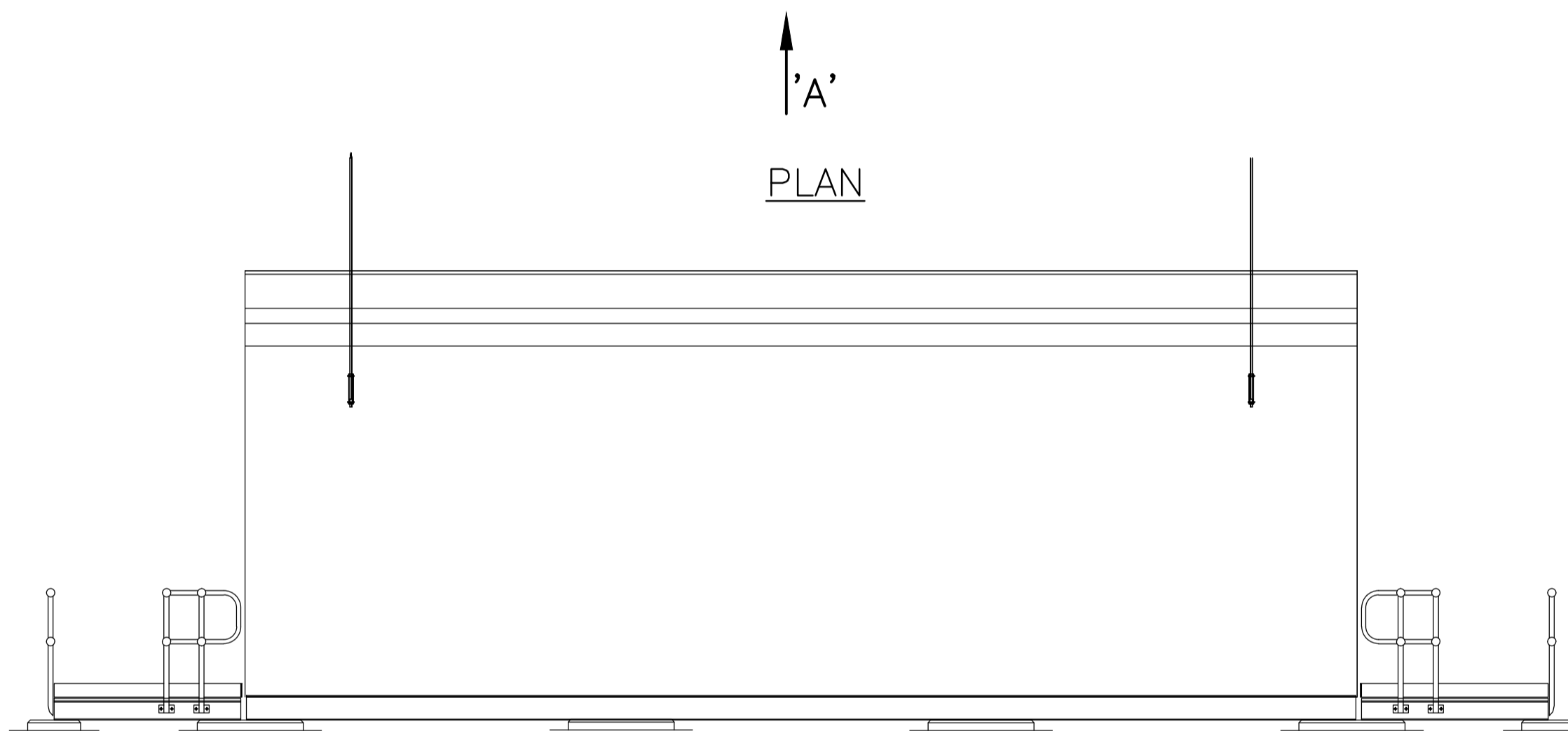
BUILDING AIR CONDITIONING		
AC1	+1U01	CONTROL ROOM AIR CONDITIONER AND CONDENSER 1
AC2	+1U02	CONTROL ROOM AIR CONDITIONER AND CONDENSER 2
AC3	+2U01	AC/DC ROOM AIR CONDITIONER AND CONDENSER 1
AC4	+2U02	AC/DC ROOM AIR CONDITIONER AND CONDENSER 2

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

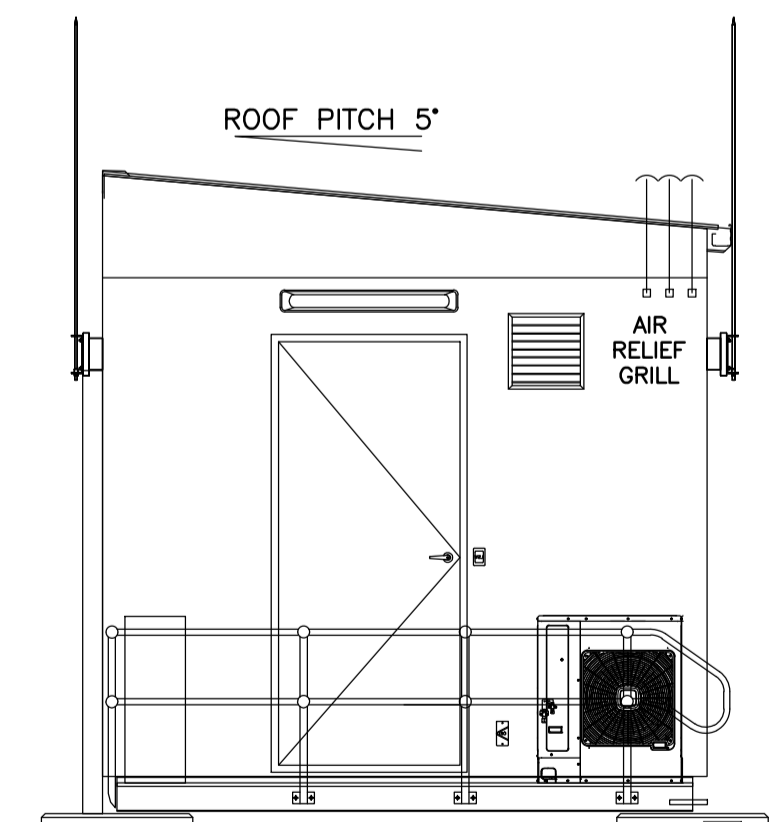
DOORS:
D1 - 1200 x 2800mm
D2 - 900 x 2400mm
D3 - 900 x 2100mm (INTERNAL)
☒ - FLOOR PENETRATION



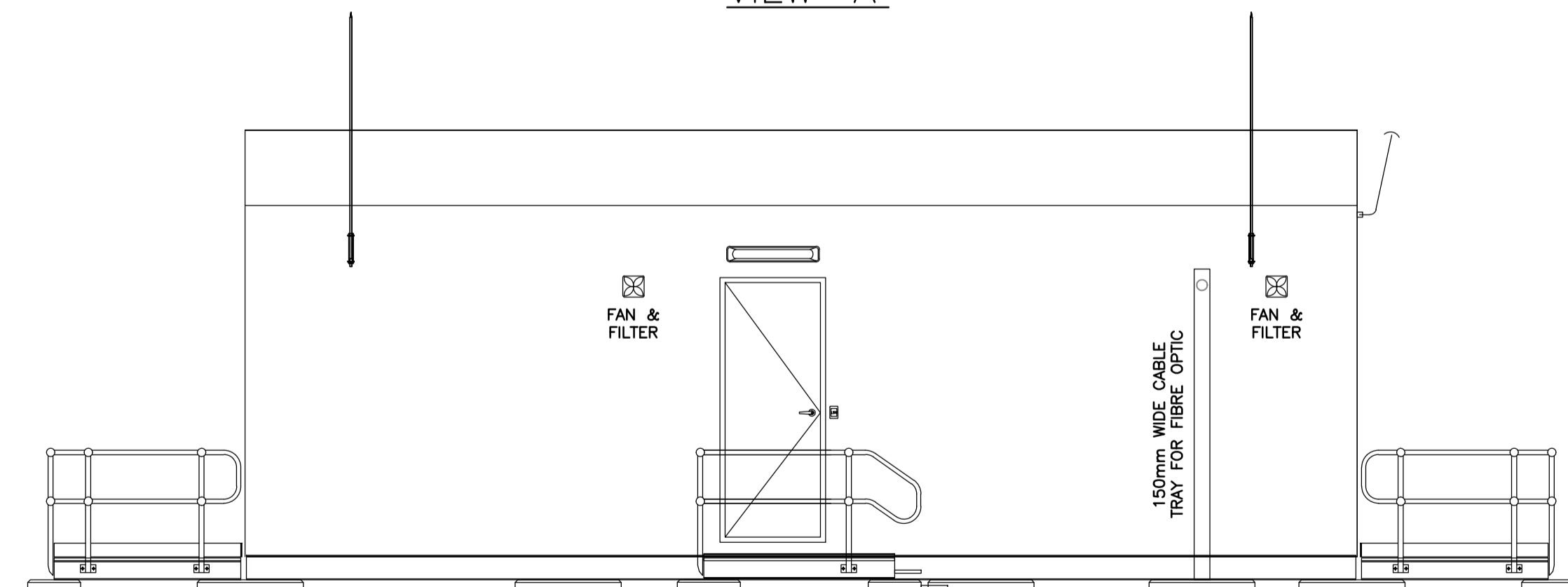
PLANNING and ENVIRONMENT ACT
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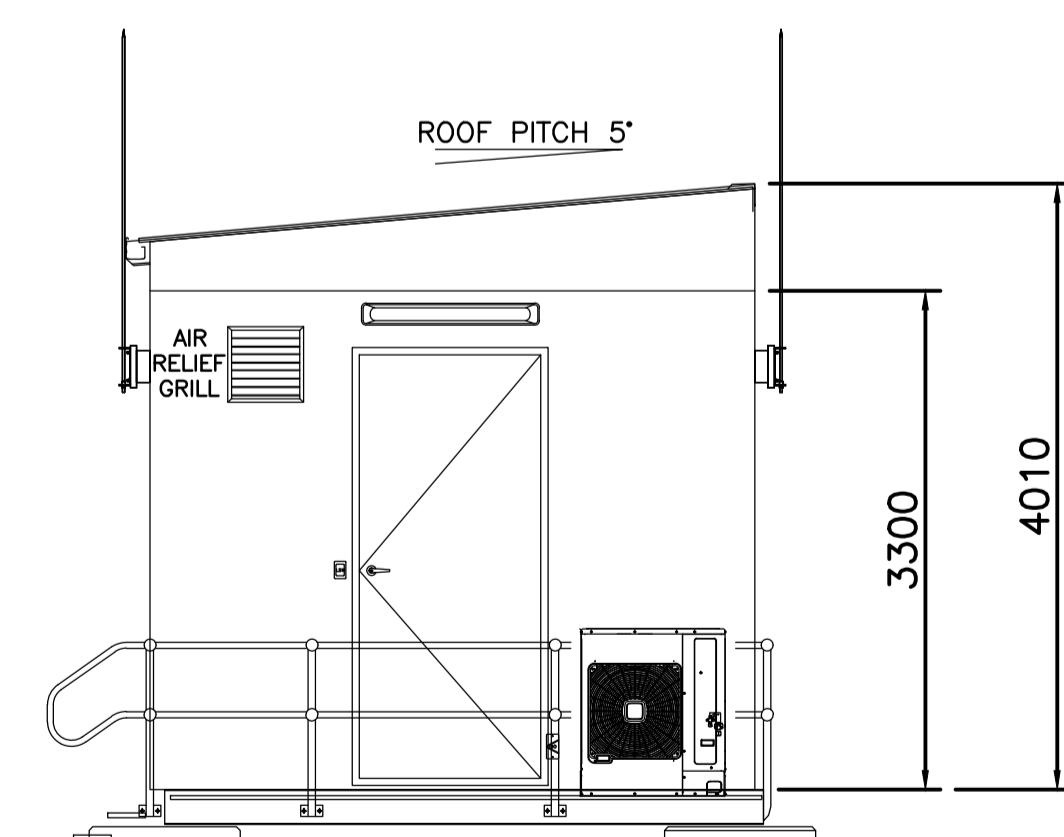
VIEW 'A'



VIEW 'B'



VIEW 'C'



VIEW 'D'

1:50
0 1 2 3 4 5m
1 0.5 AT A1

REFERENCE DRAWINGS	REVISION	DATE	REV	DESCRIPTION	BY	CONTRACTOR	ENDORSED DATE	Spec No. / Order No. / Issued	Spec / Quote / Contractors No. / Manuf No.	Legacy No. / Drawing No.
		30.09.21	A.1	FOR REVIEW (TC-0012062)	JA	CPP				
DRAWING TITLE: SUBSTATION HDCS - HAWKESDALE CLTR STATION CONTROL BUILDING PLAN AND ELEVATIONS										
DRAWING No.: HDCS-0336910-001										

FOR REVIEW