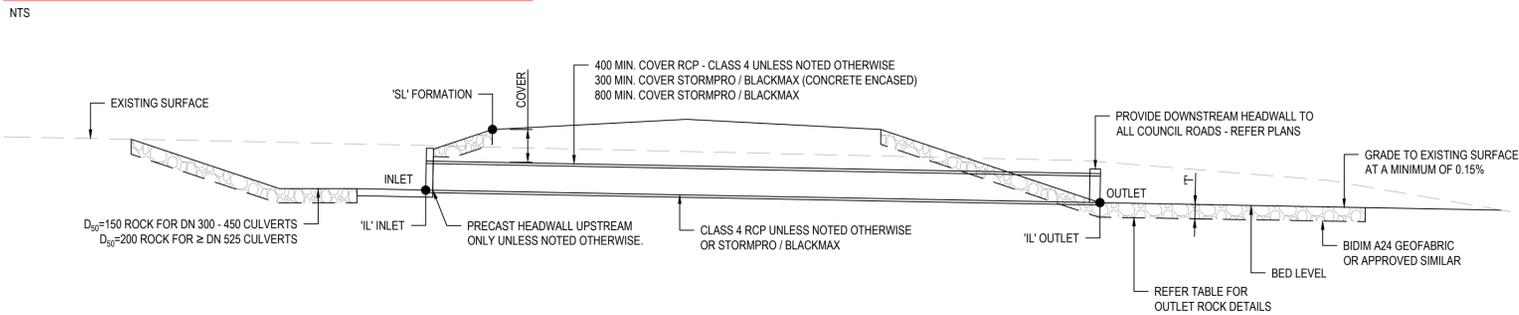


### STORMWATER CULVERT DETAIL



### STORMWATER CULVERT SECTION

NTS

### BEDDING LEGEND

- EVENLY GRADED BED, 20mm NOMINAL SIZE CLASS 2 FCR OR OTHER APPROVED BEDDING
- CLASS 3 FCR, 30mm NOMINAL SIZE OR OTHER APPROVED MATERIAL

### DRAINAGE NOTES

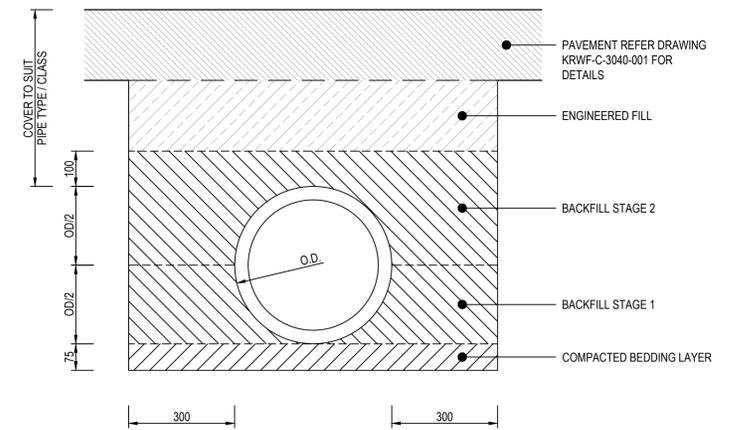
- THE USE OF FIBRE REINFORCED CONCRETE CULVERTS IS NOT APPROVED.
- STORMPRO / BLACKMAX WITH MINIMUM 800mm COVER REFER RCP TRENCH DETAILS. STORMPRO / BLACKMAX WITH LESS THAN 800mm COVER REFER CONCRETE ENCASED TRENCH DETAILS.
- RCP-CLASS 4 PIPES WITH LESS THAN 400mm COVER MUST BE CONCRETE ENCASED.
- MULTI BARREL CULVERTS TO BE TREATED SIMILARLY WITH MINIMUM CLEARANCE AS PER TABLE BELOW.

### TRENCH DIMENSIONS (TBC)

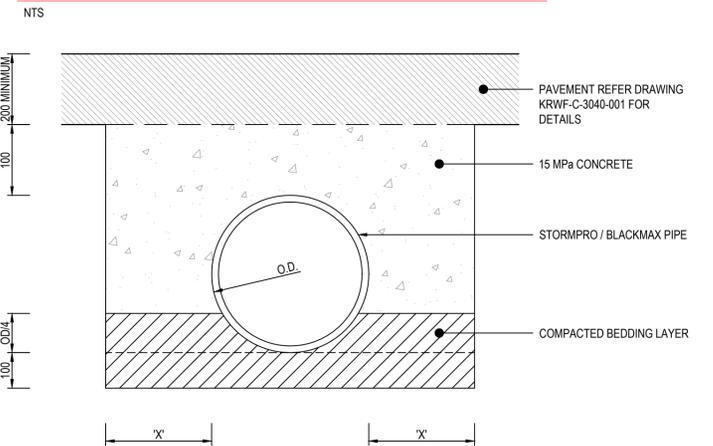
PIPE SIZE	'X' MINIMUM (mm)
DN 300	150
DN 375	175
DN 450	200
≥ DN 525	300

### MULTI BARREL SPACING

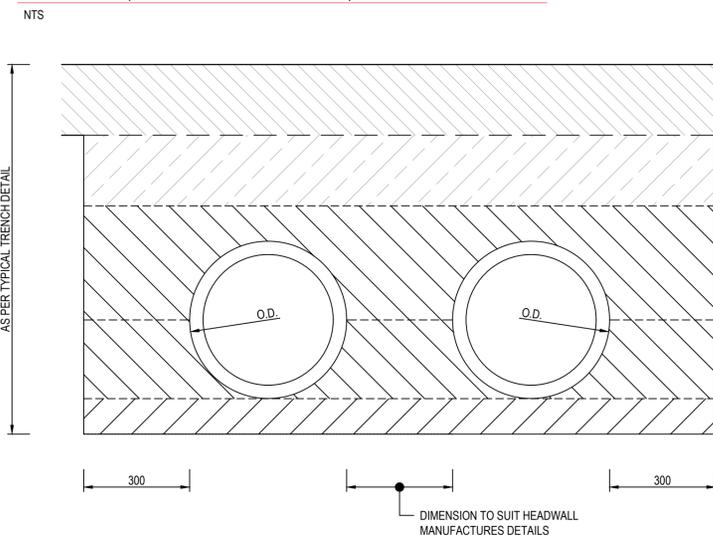
PIPE SIZE	MINIMUM SPACING (mm)
DN 300-600	300
≥ DN 750	600



### CULVERT TRENCH DETAIL



### CULVERT (CONCRETE ENCASED) TRENCH DETAIL



### MULTI BARREL TRENCH DETAIL

NTS

SINGLE PIPE CULVERT OUTLET ROCK SIZE <sup>4,5,6</sup>														
PIPE GRADE	0.5% - 1.0%		>1.0% - 2.0%		>2.0% - 4.0%		>4.0% - 5.0%		>5.0% - 8.0%		>8.0% - 10.0%		RENO MATTRESS <sup>3</sup>	L <sup>1</sup> (m)
	PIPE SIZE (D)	D <sub>50</sub> (mm)	L <sup>1</sup> (m)	D <sub>50</sub> (mm)										
DN 300	100	1.2	100	1.2	200	1.8	200	1.8	200	1.8	200	1.8	RENO MATTRESS <sup>3</sup>	3.0
DN 375	100	1.5	200	2.3	200	2.3	200	2.3	RENO MATTRESS <sup>3</sup>	3.8	RENO MATTRESS <sup>3</sup>	3.8	RENO MATTRESS <sup>3</sup>	3.8
DN 450	200	2.7	200	2.7	300	3.6	300	3.6	RENO MATTRESS <sup>3</sup>	4.5	RENO MATTRESS <sup>3</sup>	4.5	RENO MATTRESS <sup>3</sup>	4.5
DN 525	200	3.2	200	3.2	300	4.2	RENO MATTRESS <sup>3</sup>	5.3	RENO MATTRESS <sup>3</sup>	5.3	RENO MATTRESS <sup>3</sup>	5.3	RENO MATTRESS <sup>3</sup>	5.3
DN 600	200	3.6	200	3.6	RENO MATTRESS <sup>3</sup>	6.0	RENO MATTRESS <sup>3</sup>	6.0						
DN 750	200	4.5	300	6.0	RENO MATTRESS <sup>3</sup>	7.5	RENO MATTRESS <sup>3</sup>	7.5						
DN 900	300	7.2	500 <sup>2</sup>	9.0	RENO MATTRESS <sup>3</sup>	9.0								
DN 1200	500 <sup>2</sup>	12.0	RENO MATTRESS <sup>3</sup>	14.5	RENO MATTRESS <sup>3</sup>	14.5								
DN 1500	600 <sup>2</sup>	18.0	RENO MATTRESS <sup>3</sup>	18.0										

MULTI PIPE CULVERT OUTLET ROCK SIZE <sup>4,5,6</sup>														
PIPE GRADE	0.5% - 1.0%		>1.0% - 2.0%		>2.0% - 4.0%		>4.0% - 5.0%		>5.0% - 8.0%		>8.0% - 10.0%		RENO MATTRESS <sup>3</sup>	L <sup>1</sup> (m)
	PIPE SIZE (D)	D <sub>50</sub> (mm)	L <sup>1</sup> (m)	D <sub>50</sub> (mm)										
DN 300	100	1.8	200	1.8	300	2.4	300	2.4	300	2.4	300	2.4	RENO MATTRESS <sup>3</sup>	3.0
DN 375	200	2.3	200	2.3	400 <sup>2</sup>	3.0	500 <sup>2</sup>	3.8	RENO MATTRESS <sup>3</sup>	3.8	RENO MATTRESS <sup>3</sup>	3.8	RENO MATTRESS <sup>3</sup>	3.8
DN 450	200	2.7	300	3.6	500 <sup>2</sup>	4.5	500 <sup>2</sup>	4.5	RENO MATTRESS <sup>3</sup>	4.5	RENO MATTRESS <sup>3</sup>	4.5	RENO MATTRESS <sup>3</sup>	4.5
DN 525	200	3.2	300	4.2	600 <sup>2</sup>	5.3	RENO MATTRESS <sup>3</sup>	5.3						
DN 600	200	3.6	400 <sup>2</sup>	4.8	RENO MATTRESS <sup>3</sup>	6.0	RENO MATTRESS <sup>3</sup>	6.0						
DN 750	300	6.0	500 <sup>2</sup>	7.5	RENO MATTRESS <sup>3</sup>	7.5	RENO MATTRESS <sup>3</sup>	7.5						
DN 900	400 <sup>2</sup>	7.2	600 <sup>2</sup>	9.0	RENO MATTRESS <sup>3</sup>	9.0								
DN 1200	500 <sup>2</sup>	12.0	RENO MATTRESS <sup>3</sup>	14.5	RENO MATTRESS <sup>3</sup>	14.5								
DN 1500	600 <sup>2</sup>	18.0	RENO MATTRESS <sup>3</sup>	18.0										

### CULVERT OUTLET ROCK SIZE NOTES

- REFER TO STORMWATER CULVERT DETAIL FOR PLAN VIEW SETOUT.
- ALTERNATIVE RENO MATTRESS MAY BE USED AT THE DISCRETION OF THE DESIGN ENGINEER.
- RENO MATTRESS DESIGN IS BASED ON A 300mm THICK MATTRESS FILLED WITH ROCKS SIZED BETWEEN 100 - 150mm. ALTERNATIVE DIMENSIONS OF RENO MATTRESS THICKNESS OR ROCK SIZE MAY BE USED AT THE DISCRETION OF THE DESIGN ENGINEER.
- WHERE THE CULVERT LENGTH IS GREATER THAN 25m, THE D50 ROCK SIZE IS TO BE INCREASED BY 100mm. THE LENGTH OF THE OUTLET ROCK PAD SIZE MAY NEED TO INCREASE. REFER TABLE FOR OUTLET ROCK LENGTH.
- WHERE THE CULVERT LENGTH IS GREATER THAN 50m THE ROCK SIZE TABLES ARE NOT TO BE USED AND SPECIALIST DESIGN ADVICE IS REQUIRED. THE DESIGN ENGINEER IS TO BE CONSULTED IF DESIGN DRAWINGS DO NOT SPECIFY ROCK OUTLET PAD PARAMETERS.
- WHERE THE CULVERT GRADE IS >10% SPECIALIST DESIGN ADVICE IS REQUIRED FROM THE DESIGN ENGINEER.
- THE THICKNESS OF THE ROCK PAD CAN BE REDUCED AT THE DISCRETION OF THE DESIGN ENGINEER IF SUITABLE ROCK GRADINGS CAN BE ACHIEVED AND VERIFIED. REFER TO THE DESIGN ENGINEER FOR ADVICE.

INLET / OUTLET ROCK THICKNESS	
D <sub>50</sub> (mm)	THICKNESS <sup>7</sup> (mm)
100	200
150	250
200	350
300	500
400	650
500	800
600	1000

LUCAS  
TOTAL CONTRACT SOLUTIONS

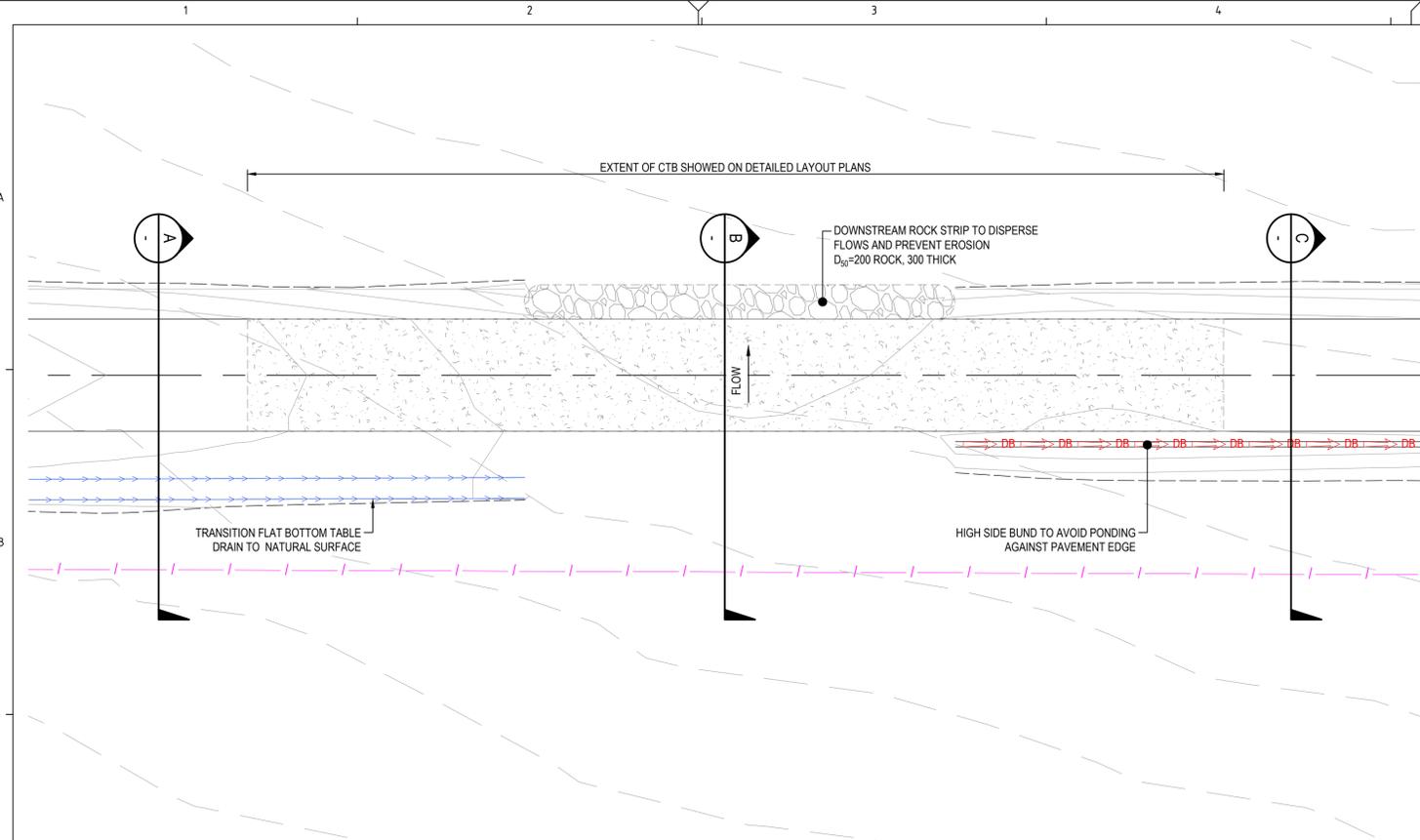
Vestas®

icubed consulting  
Innovation ingenuity inspiration

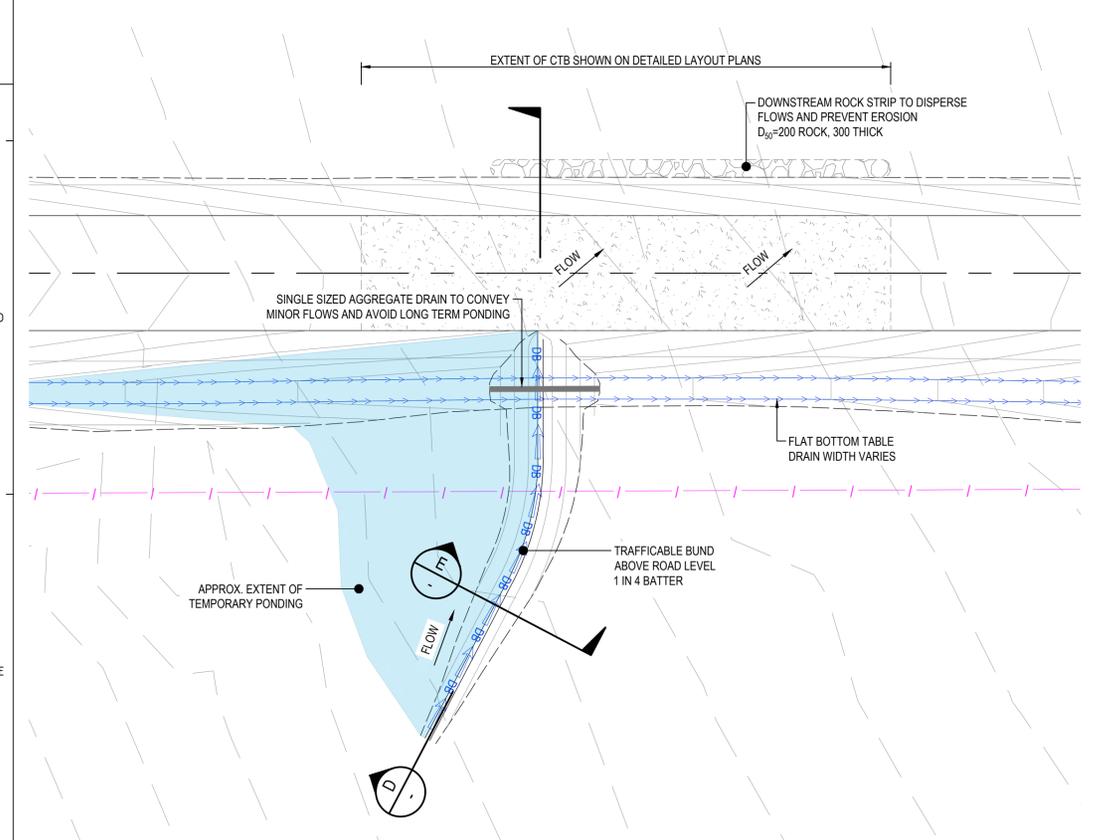
Development Services | Engineering | Project Delivery  
www.icubed.com.au

DRAWING REVISIONS					DRAWING REFERENCES					KING ROCKS WIND FARM				
										CIVIL TYPICAL STORMWATER DETAILS SHEET 1				
										KRWf-C-3040-001 KING ROCKS WIND FARM CIVIL TYPICAL ACCESS TRACK DETAILS SHEET 1				
										KRWf-C-3039-001				
										SCALE 1: NTS U.O.N.				
										NEXT SHT 2				
										REVISION A				

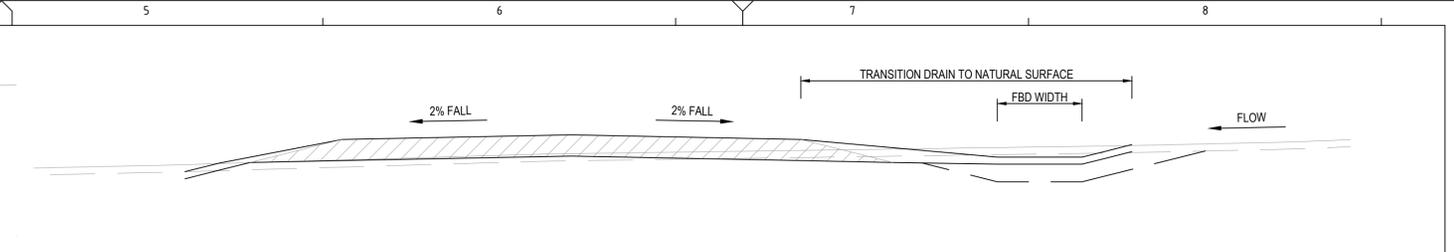




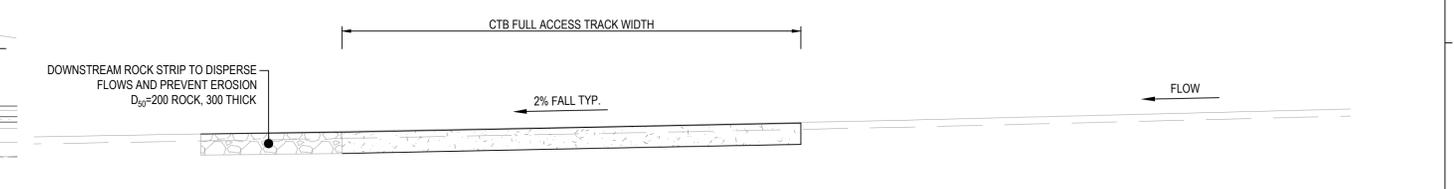
**DRAINAGE CROSSING TYPE 1 - BED LEVEL CROSSING DETAIL**  
SCALE 1:200



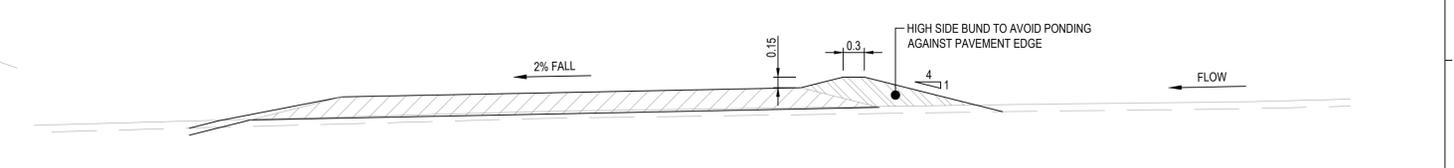
**DRAINAGE CROSSING TYPE 2 - BUND + OVERTOPPING DETAIL**  
SCALE 1:200



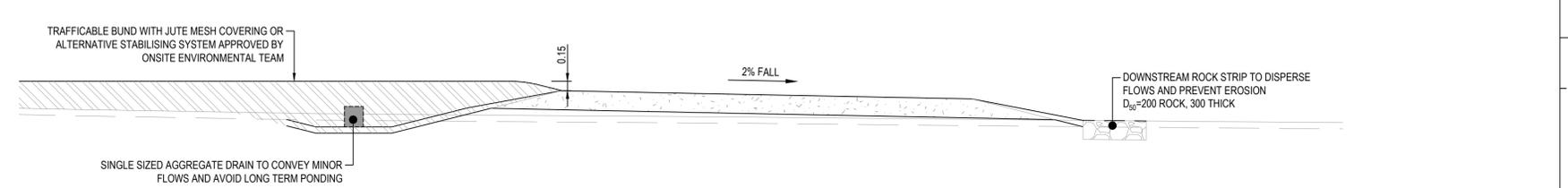
**A TYPE 1 CROSS ROAD DRAINAGE SECTION**  
SCALE 1:50



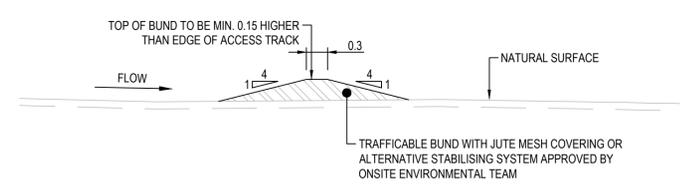
**B TYPE 1 CROSS ROAD DRAINAGE SECTION**  
SCALE 1:50



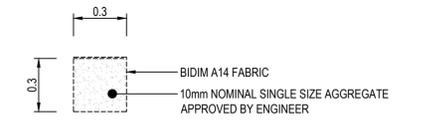
**C TYPE 1 CROSS ROAD DRAINAGE SECTION**  
SCALE 1:50



**D TYPE 2 CROSS ROAD DRAINAGE SECTION**  
SCALE 1:50



**E TYPE 2 BUND SECTION**  
SCALE 1:50



**SINGLE SIZED AGGREGATE DRAIN DETAIL**  
SCALE 1:20

REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION	DRAWING No	TITLE
A	26.09.25	D.K.	M.L.	F.M.	ISSUED FOR CONSTRUCTION		

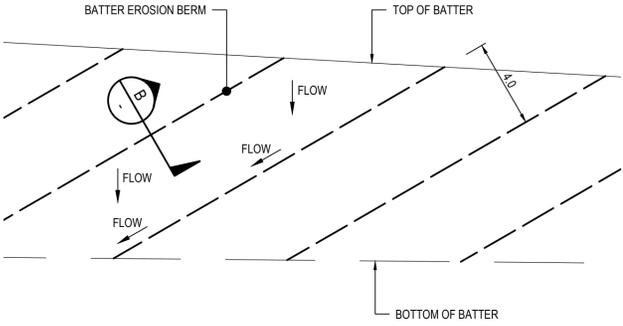
KING ROCKS WIND FARM				DRAWING NUMBER	
CIVIL TYPICAL STORMWATER DETAILS SHEET 3				KRWF-C-3039-003	
DRAWN	M.LOWRY	24.07.2025	DRAWING NUMBER		
CHECKED	B.PARGE	24.07.2025	KRWF-C-3039-003		
APPROVED	R.HETHERINGTON	24.07.2025	NEXT SHT -		
SCALE 1: NTS U.O.N.			REVISION A		

**TYPICAL WIND FARM ACCESS TRACK CROSS SECTION - TYPE 1**

NTS

**TYPICAL WIND FARM ACCESS TRACK CROSS SECTION - TYPE 2**

NTS - TRACK 1-1 CH10 TO CH265

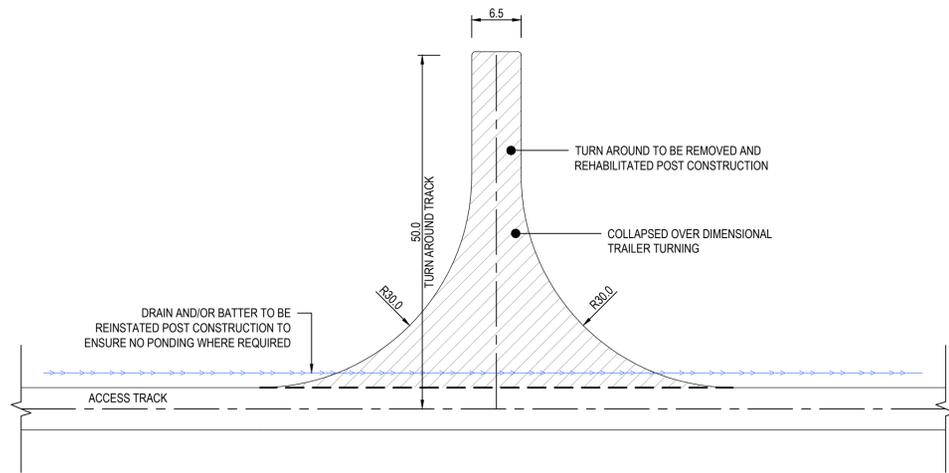


**A BATTER EROSION BERM ELEVATION**

NTS

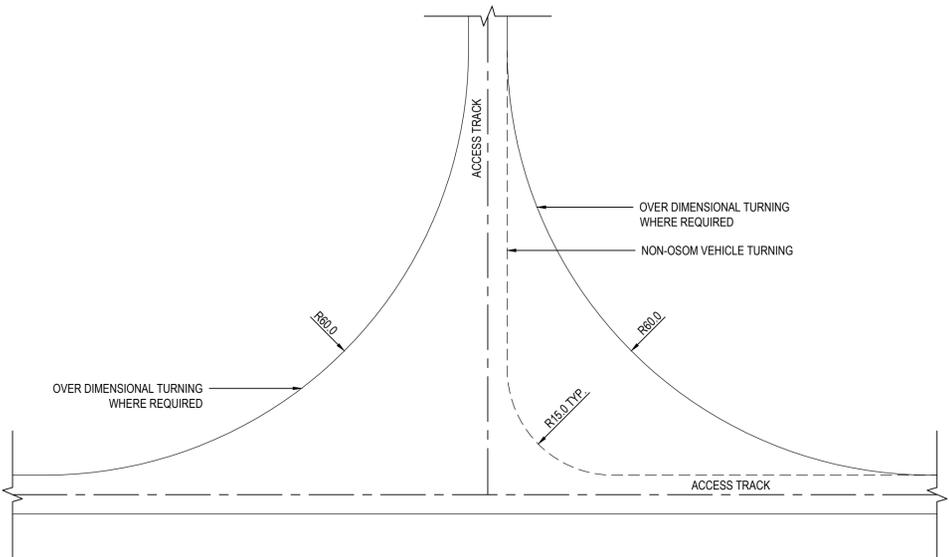
**B BATTER EROSION BERM SECTION**

NTS



**TYPICAL TURN AROUND DETAIL**

NTS

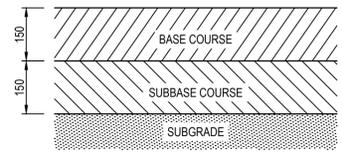


**TYPICAL INTERSECTION DETAIL**

NTS

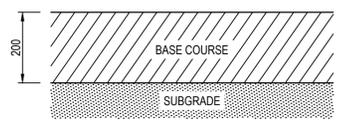
**PAVEMENT NOTES**

ALL PAVEMENTS ARE BASED ON A SOUND AND TRAFFICABLE SUBGRADE. WET AND/OR SOFT AREAS FAILING THE SUBGRADE PROOF ROLL TEST MAY REQUIRE SOME FORM OF SUBGRADE IMPROVEMENT. THE DESIGN ENGINEER SHALL BE CONSULTED TO ASSESS OPTIONS SUCH AS:  
 - STABILISATION  
 - GEOTEXTILE STRENGTHENING  
 - COARSE ROCKFILL STRENGTHENING  
 - SUBGRADE REPLACEMENT  
 OR A COMBINATION OF ALL THESE OPTIONS.  
 SUBGRADE FRICTION ANGLE TO BE 35 DEGREES OR BETTER.



**TYPE 1 ACCESS TRACK PAVEMENT DETAILS**

SUBJECT TO FINAL DESIGN BASED ON INSITU STRENGTH TESTING



**TYPE 2 ACCESS TRACK PAVEMENT DETAILS**

SUBJECT TO FINAL DESIGN BASED ON INSITU STRENGTH TESTING

**ACCESS TRACK NOTES**

- DRAINS TO BE TOPSOILED.
- BATTERS TO BE TOP SOILED, ROCK LINED OR LEFT UN-TREATED AS REQUIRED.
- CRANE MUST TRAVEL CENTRALLY ALONG TRACK.
- ACCESS TRACK BEND WIDENING AS PER TABLE. PARAMETERS FOR TRACK WIDENING ARE TYPICAL ONLY AND FINAL WIDENING IS AT THE DISCRETION OF THE DESIGNER AND ON SITE CONSULTING ENGINEERS.
- 300 WIDE FLAT BOTTOM DRAIN TYPICAL. REFER LAYOUT AND LONGITUDINAL PLANS FOR DRAIN SIZES AND LOCATIONS.
- GUIDE POSTS SHALL BE PLACED AS PER CLAUSE 7.1.2 OF THE PROJECT'S VSR. THEY SHALL BE PLACED BOTH SIDES OF CULVERTS AND HAVE A TRACK SPACING AS PER THE BELOW TABLE.

**GUIDE POST SPACING TABLE**

CURVE CENTRELINE RADIUS (m)	MAX. GUIDE POST SPACING (m)
STRAIGHTS	300
<100	15
100 - 199	30
≥200	40

**BEND WIDENING TABLE**

RADIUS	BEND ANGLE	GRADIENT	MIN. TRACK WIDENING
100m ≤ R < 130m	0° < BEND < 44°	<12%	0m
		>12%	0m
	45° ≤ BEND < 89°	<12%	1.0m
		≥12%	2.0m
	BEND ≥ 90°	<12%	2.0m
		≥12%	3.0m
131m ≤ R ≤ 160m	0° < BEND < 44°	<12%	0m
		>12%	0m
	45° ≤ BEND < 89°	<12%	0m
		≥12%	1.0m
	BEND ≥ 90°	<12%	1.0m
		≥12%	2.0m
R > 161m	ANY	ANY	0m

KING ROCKS WIND FARM

CIVIL TYPICAL ACCESS TRACK DETAILS SHEET 1

DRAWN	M.WATT	10.06.2025
CHECKED	B.PARGE	10.06.2025
APPROVED	F.MACMILLAN	10.06.2025

DRAWING NUMBER	
KRWF-C-3040-001	

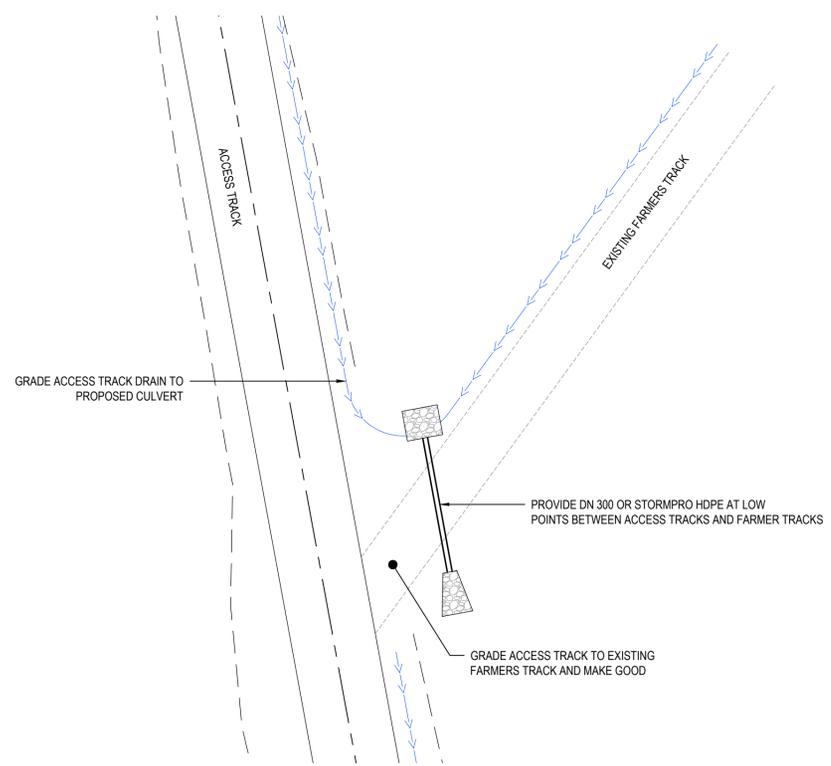
0	-	-
SCALE 1: NTS U.O.N.		

synergy	NEXT SHT	2
	REVISION	A

REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION	DRAWING No	DRAWING REFERENCES
A	26.09.25	D.K.	M.L.	F.M.	ISSUED FOR CONSTRUCTION		

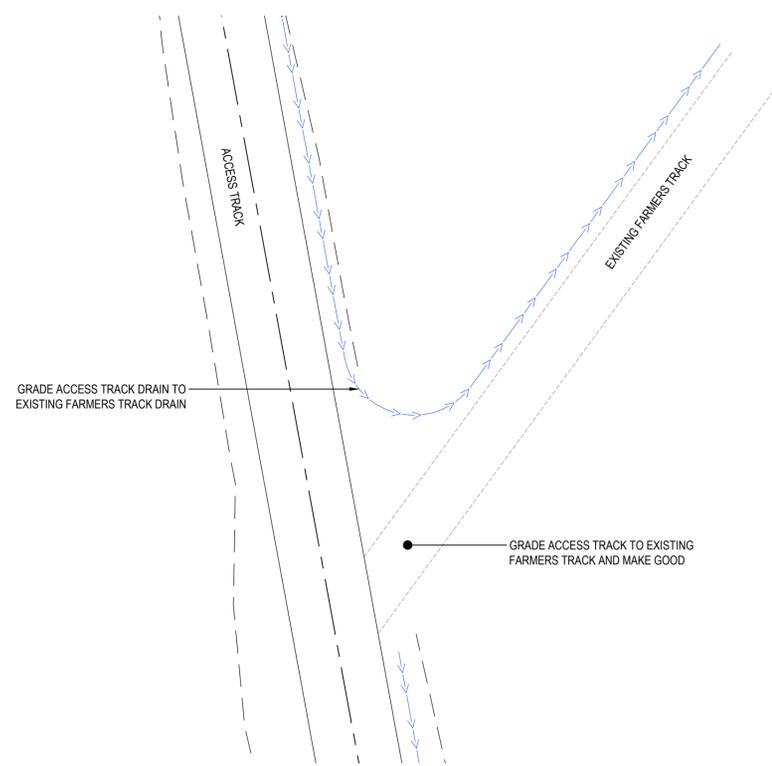
**NOTES**

1. THE INTERFACE BETWEEN DESIGN ACCESS TRACKS AND EXISTING FARMERS TRACKS HAVE NOT BEEN MODELLED.
2. THE INTERFACE BETWEEN THE TOE OF BATTERS, NATURAL SURFACE AND EXISTING FARMERS TRACKS SHALL BE SHAPED LOCALLY AS REQUIRED TO AVOID PONDING.
3. INTERFACE TO BE AGREED BETWEEN CBOP AND THE LAND HOLDER.
4. CBOP TO COORDINATE WITH ON SITE TEAM TO ENSURE NO WORKS ARE CONSTRUCTED OUTSIDE OF THE SITE BOUNDARY OR SITE ENTRY CORRIDOR.



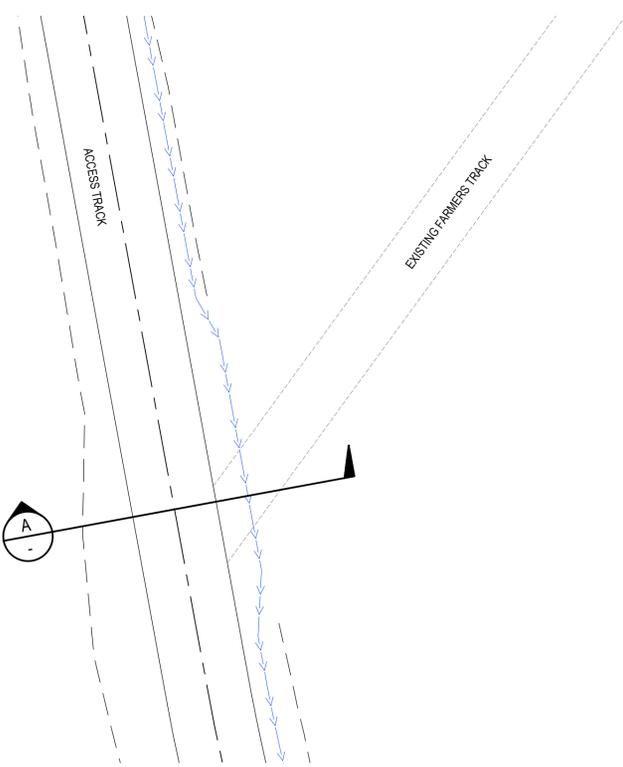
**TYPICAL ACCESS TRACK TO FARMERS TRACK INTERFACE DETAIL 1**

NTS



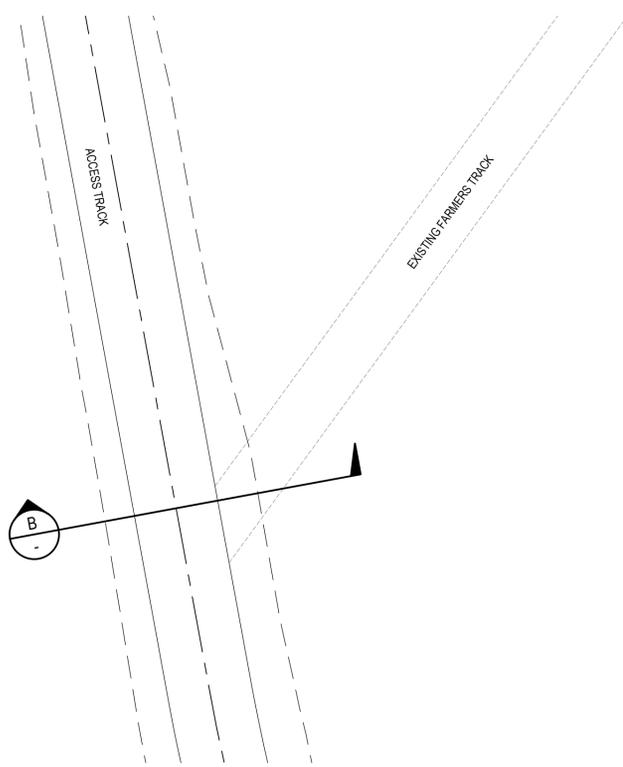
**TYPICAL ACCESS TRACK TO FARMERS TRACK INTERFACE DETAIL 2**

NTS



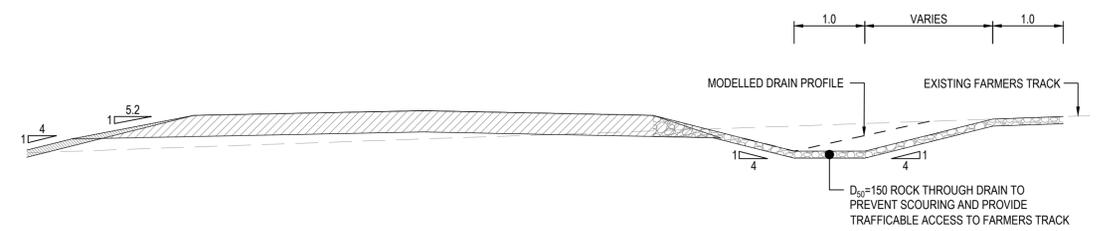
**TYPICAL ACCESS TRACK TO FARMERS TRACK INTERFACE DETAIL 3**

NTS



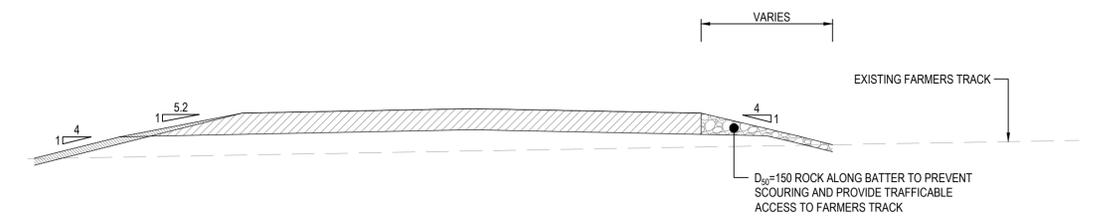
**TYPICAL ACCESS TRACK TO FARMERS TRACK INTERFACE DETAIL 4**

NTS



**A INTERFACE DETAIL 3 - CROSS SECTION**

NTS



**B INTERFACE DETAIL 4 - CROSS SECTION**

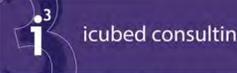
NTS



**LUCAS**  
TOTAL CONTRACT SOLUTIONS



**Vestas**



**icubed consulting**  
innovation ingenuity inspiration

Development Services | Engineering | Project Delivery  
www.icubed.com.au

REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION	DRAWING No	DRAWING REFERENCES
A	26.09.25	D.K.	M.L.	F.M.	ISSUED FOR CONSTRUCTION		
DRAWING REVISIONS							
DRAWING REFERENCES							

KING ROCKS WIND FARM

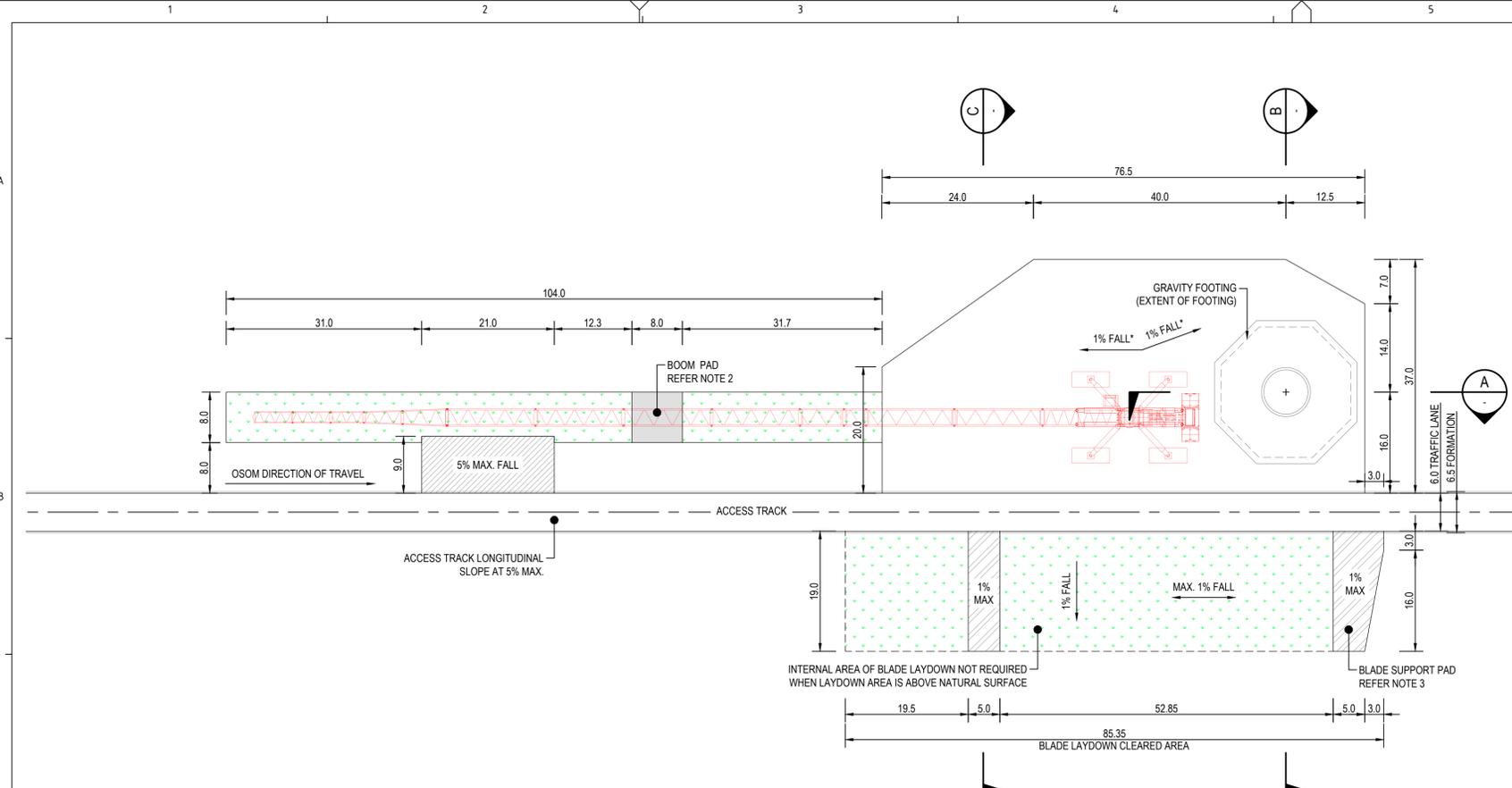
CIVIL  
TYPICAL  
ACCESS TRACK  
DETAILS  
SHEET 2

DRAWN	R.SOLEIMANI	27.06.2025
CHECKED	M.LOWRY	27.06.2025
APPROVED	F.MACMILLAN	2.06.2025

DRAWING NUMBER  
KRWF-C-3040-002

0	-
SCALE 1: NTS U.O.N.	

	NEXT SHT -
REVISION	A



**TYPICAL WTG HARDSTAND GENERAL ARRANGEMENT TYPE 1**

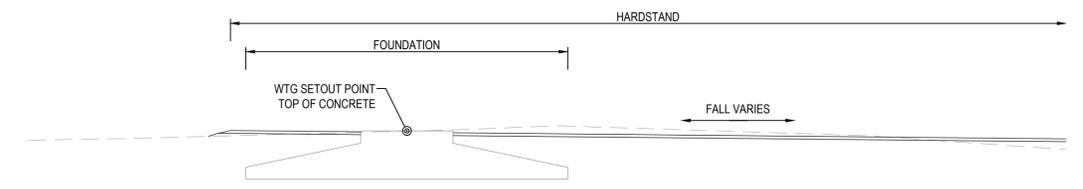
SCALE 1:500

**HARDSTAND NOTES**

1. CRANE BOOM ASSEMBLY AREA TO BE CLEAR OF OBSTRUCTIONS AND NON-TRAFFICABLE.
  2. BOOM PAD TO BE TYPICALLY CONSTRUCTED AT 1% AND MAX. 3.0m BELOW THE EDGE OF HARDSTAND (NO MAX. ABOVE). LOCATION TO BE DISCUSSED WITH OEM WHERE SIGNIFICANT EARTHWORKS ARE REQUIRED.
  3. LONGITUDINAL SLOPE BETWEEN BLADE SUPPORT PADS TO BE MAXIMUM 1%. BLADE SUPPORT PADS TO BE WITHIN +0.75m/-0.0m OF THE ACCESS TRACK. BLADE LAYDOWN AREA TO BE CLEARED OF OBSTRUCTIONS AND NON-TRAFFICABLE.
  4. CRANE ESTABLISHMENT ON THE HARDSTANDS AND IN PROXIMITY TO SLOPES AND TRENCHES, SHALL BE IN ACCORDANCE WITH PARTICULAR CRANE'S OPERATIONS MANUAL AND THE CRANE INDUSTRY COUNCIL GUIDANCE NOTE, CICA-GN-0013-C.
  5. HARDSTAND ARRANGEMENT, ORIENTATION AND DIRECTION OF TRAVEL SET BY VESTAS.
  6. BLADE LAYDOWN AND BLADE SUPPORT PADS ARE TEMPORARY ONLY AND ARE TO BE REMOVED AND REHABILITATED POST CONSTRUCTION.
- \* HARDSTAND GRADE TO BE SKEWED WHEN LARGER PORTION OF HARDSTAND GRADES TOWARDS THE TOWER.

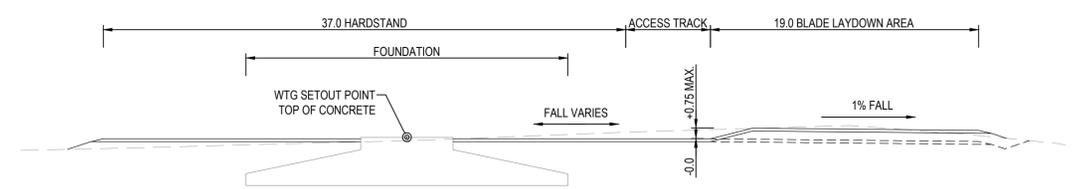
**LEGEND**

- CRANE ASSIST PAD - REFER HARDSTAND PAVEMENT DETAIL
- BLADE SUPPORT PAD - REFER PAVEMENT DETAIL
- BOOM PAD - REFER BLADE SUPPORT PAD PAVEMENT DETAIL
- CLEARED AREA - EARTHWORKS AS REQUIRED



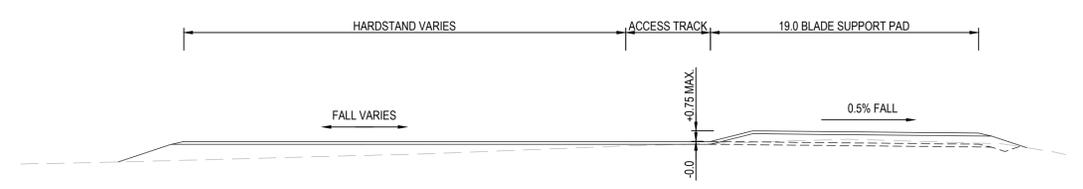
**A WTG - HARDSTAND TYPICAL SECTION**

SCALE 1:250



**B WTG - TRACK TYPICAL SECTION**

SCALE 1:250



**C HARDSTAND TYPICAL SECTION**

SCALE 1:250

LUCAS  
TOTAL CONTRACT SOLUTIONS

Vestas®

icubed consulting  
innovation ingenuity inspiration

Development Services | Engineering | Project Delivery  
www.icubed.com.au

REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION	DRAWING No	DRAWING REFERENCES
A	26.09.25	D.K.	M.L.	F.M.	ISSUED FOR CONSTRUCTION		
DRAWING REVISIONS							
DRAWING REFERENCES							

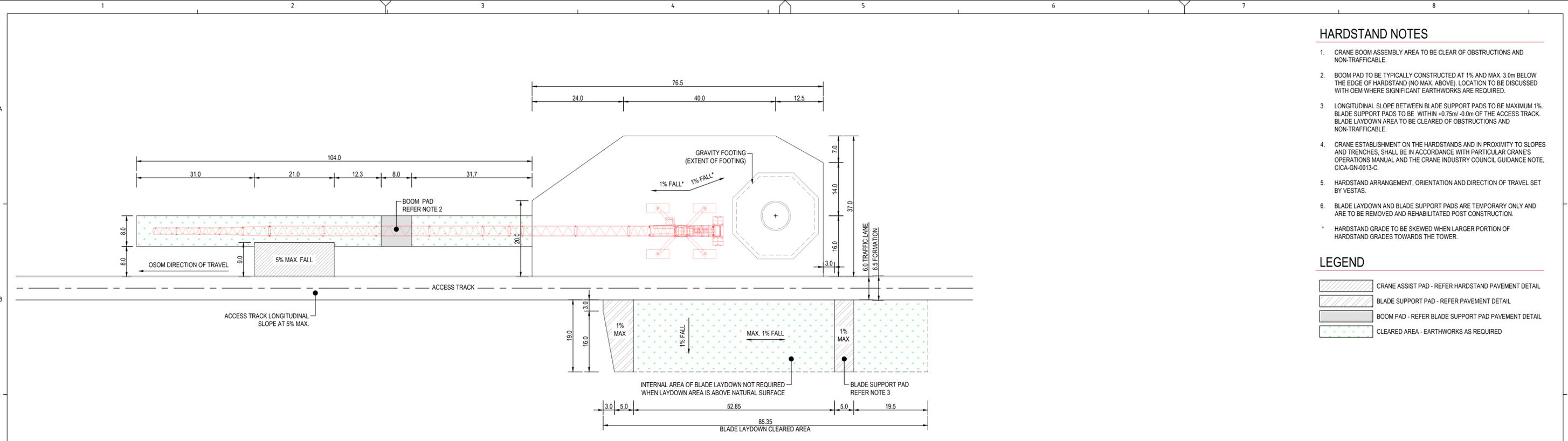
**KING ROCKS WIND FARM**

CIVIL  
TYPICAL  
WTG HARDSTAND  
DETAILS  
SHEET 1

DRAWN	M.WATT	27.06.2025	DRAWING NUMBER
CHECKED	M.LOWRY	27.06.2025	KRWF-C-3041-001
APPROVED	F.MACMILLAN	27.06.2025	

0	12.5	25	
SCALE 1: 500 U.O.N.			

	NEXT SHT 2
REVISION	A



**HARDSTAND NOTES**

1. CRANE BOOM ASSEMBLY AREA TO BE CLEAR OF OBSTRUCTIONS AND NON-TRAFFICABLE.
  2. BOOM PAD TO BE TYPICALLY CONSTRUCTED AT 1% AND MAX. 3.0m BELOW THE EDGE OF HARDSTAND (NO MAX. ABOVE). LOCATION TO BE DISCUSSED WITH OEM WHERE SIGNIFICANT EARTHWORKS ARE REQUIRED.
  3. LONGITUDINAL SLOPE BETWEEN BLADE SUPPORT PADS TO BE MAXIMUM 1%. BLADE SUPPORT PADS TO BE WITHIN +0.75m/-0.0m OF THE ACCESS TRACK. BLADE LAYDOWN AREA TO BE CLEARED OF OBSTRUCTIONS AND NON-TRAFFICABLE.
  4. CRANE ESTABLISHMENT ON THE HARDSTANDS AND IN PROXIMITY TO SLOPES AND TRENCHES, SHALL BE IN ACCORDANCE WITH PARTICULAR CRANE'S OPERATIONS MANUAL AND THE CRANE INDUSTRY COUNCIL GUIDANCE NOTE, CICA-GN-0013-C.
  5. HARDSTAND ARRANGEMENT, ORIENTATION AND DIRECTION OF TRAVEL SET BY VESTAS.
  6. BLADE LAYDOWN AND BLADE SUPPORT PADS ARE TEMPORARY ONLY AND ARE TO BE REMOVED AND REHABILITATED POST CONSTRUCTION.
- \* HARDSTAND GRADE TO BE SKEWED WHEN LARGER PORTION OF HARDSTAND GRADES TOWARDS THE TOWER.

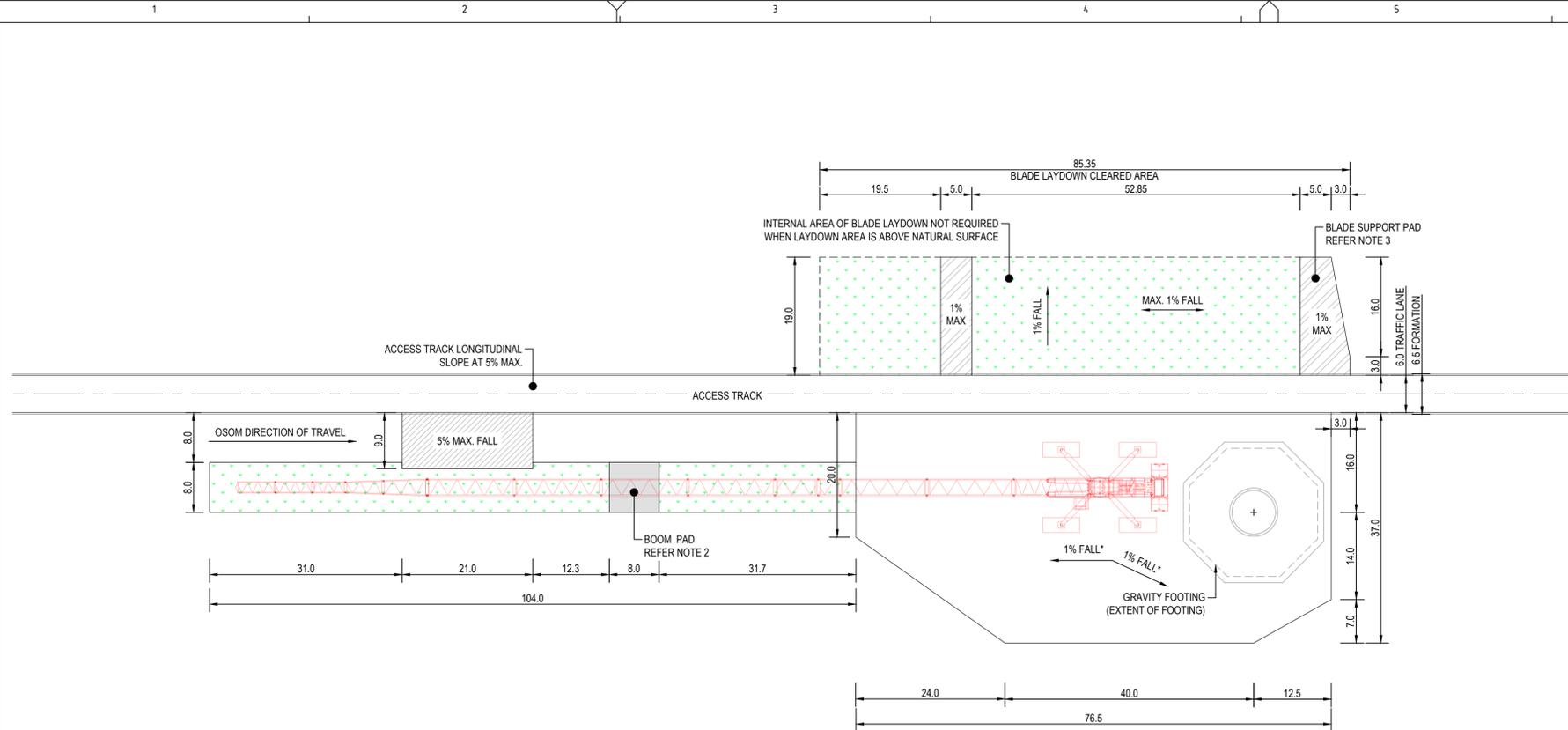
**LEGEND**

- CRANE ASSIST PAD - REFER HARDSTAND PAVEMENT DETAIL
- BLADE SUPPORT PAD - REFER PAVEMENT DETAIL
- BOOM PAD - REFER BLADE SUPPORT PAD PAVEMENT DETAIL
- CLEARED AREA - EARTHWORKS AS REQUIRED

**TYPICAL WTG HARDSTAND GENERAL ARRANGEMENT TYPE 2**

SCALE 1:500

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">REV</td> <td style="width: 15%;">DATE</td> <td style="width: 5%;">DRWN</td> <td style="width: 5%;">CHK'D</td> <td style="width: 5%;">APP'D</td> <td style="width: 50%;">DESCRIPTION</td> </tr> <tr> <td>A</td> <td>26.09.25</td> <td>D.K.</td> <td>M.L.</td> <td>F.M.</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> </table>				REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION	A	26.09.25	D.K.	M.L.	F.M.	ISSUED FOR CONSTRUCTION	<p><b>KING ROCKS WIND FARM</b></p> <p>CIVIL TYPICAL WTG HARDSTAND DETAILS SHEET 2</p>			
				REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION										
A	26.09.25	D.K.	M.L.	F.M.	ISSUED FOR CONSTRUCTION														
<p>DRAWING REVISIONS</p>		<p>DRAWING REFERENCES</p>																	
<p>Copyright © Electricity Generation and Retail Corporation trading as Synergy (ABN 58 673 830 106) ("Synergy") 2023. This drawing and its contents are owned or licensed by Synergy. Except as permitted under the Copyright Act 1968 (Commonwealth of Australia), no part of this drawing or its contents may be reproduced, adapted, transmitted, broadcast, published or performed in public in any form, or by any means, without the specific written permission from Synergy.</p>																			



**HARDSTAND NOTES**

1. CRANE BOOM ASSEMBLY AREA TO BE CLEAR OF OBSTRUCTIONS AND NON-TRAFFICABLE.
  2. BOOM PAD TO BE TYPICALLY CONSTRUCTED AT 1% AND MAX. 3.0m BELOW THE EDGE OF HARDSTAND (NO MAX. ABOVE). LOCATION TO BE DISCUSSED WITH OEM WHERE SIGNIFICANT EARTHWORKS ARE REQUIRED.
  3. LONGITUDINAL SLOPE BETWEEN BLADE SUPPORT PADS TO BE MAXIMUM 1%. BLADE SUPPORT PADS TO BE WITHIN +0.75m/-0.0m OF THE ACCESS TRACK. BLADE LAYDOWN AREA TO BE CLEARED OF OBSTRUCTIONS AND NON-TRAFFICABLE.
  4. CRANE ESTABLISHMENT ON THE HARDSTANDS AND IN PROXIMITY TO SLOPES AND TRENCHES, SHALL BE IN ACCORDANCE WITH PARTICULAR CRANE'S OPERATIONS MANUAL AND THE CRANE INDUSTRY COUNCIL GUIDANCE NOTE, CICA-GN-0013-C.
  5. HARDSTAND ARRANGEMENT, ORIENTATION AND DIRECTION OF TRAVEL SET BY VESTAS.
  6. BLADE LAYDOWN AND BLADE SUPPORT PADS ARE TEMPORARY ONLY AND ARE TO BE REMOVED AND REHABILITATED POST CONSTRUCTION.
- \* HARDSTAND GRADE TO BE SKEWED WHEN LARGER PORTION OF HARDSTAND GRADES TOWARDS THE TOWER.

**LEGEND**

- CRANE ASSIST PAD - REFER HARDSTAND PAVEMENT DETAIL
- BLADE SUPPORT PAD - REFER PAVEMENT DETAIL
- BOOM PAD - REFER BLADE SUPPORT PAD PAVEMENT DETAIL
- CLEARED AREA - EARTHWORKS AS REQUIRED

**TYPICAL WTG HARDSTAND GENERAL ARRANGEMENT TYPE 3**

SCALE 1:500

innovation ingenuity inspiration

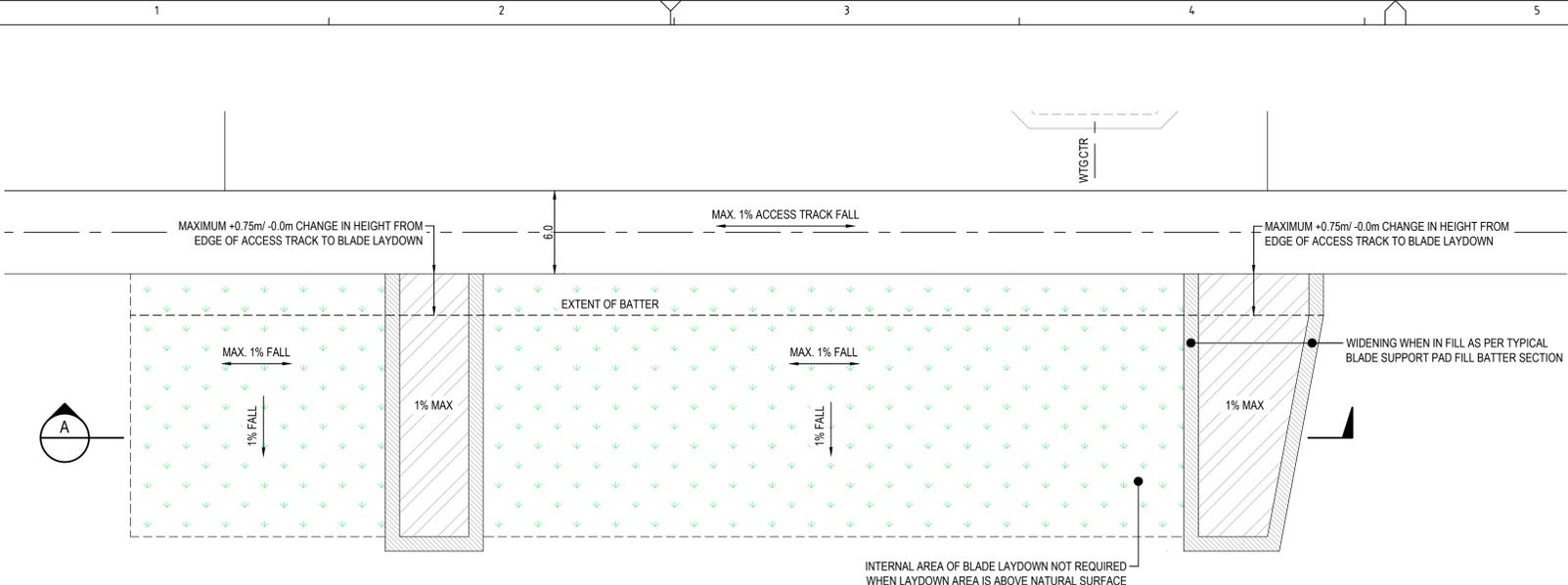
Development Services | Engineering | Project Delivery

www.icubed.com.au

REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION	DRAWING No	DRAWING REFERENCES
A	26.09.25	D.K.	M.L.	F.M.	ISSUED FOR CONSTRUCTION		
DRAWING REVISIONS							

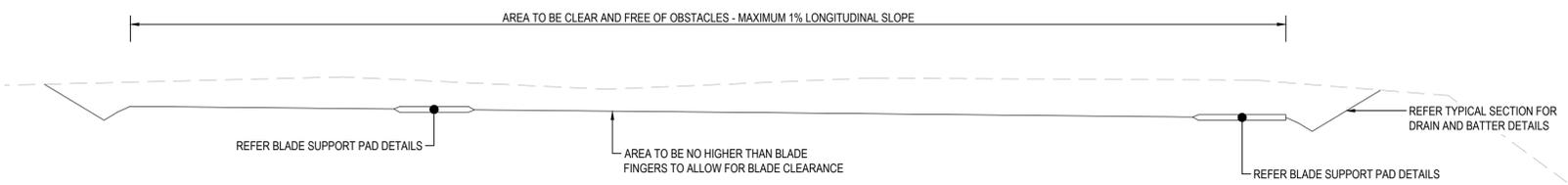
KING ROCKS WIND FARM  
CIVIL  
TYPICAL  
WTG HARDSTAND  
DETAILS  
SHEET 3

DRAWN	M.WATT	27.06.2025	DRAWING NUMBER					
CHECKED	M.LOWRY	27.06.2025	KRWF-C-3041-003					
APPROVED	F.MACMILLAN	27.06.2025						
				<table border="1" style="font-size: small;"> <tr> <td>NEXT SHT</td> <td>4</td> </tr> <tr> <td>REVISION</td> <td>A</td> </tr> </table>	NEXT SHT	4	REVISION	A
NEXT SHT	4							
REVISION	A							



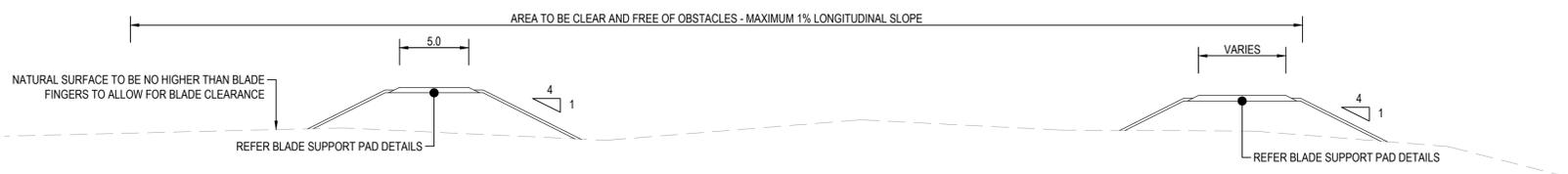
**DETAILED BLADE LAYDOWN LAYOUT**

SCALE 1:250



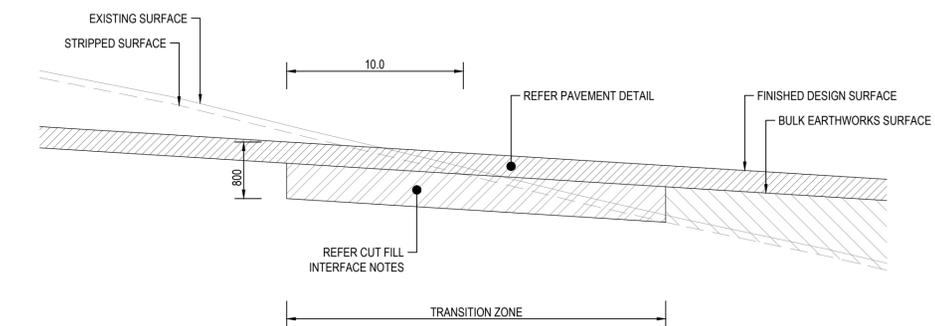
**BLADE LAYDOWN SECTION - EXAMPLE 1 (IN CUT)**

HORIZ. SCALE 1:250  
VERT. SCALE 1:125



**BLADE LAYDOWN SECTION - EXAMPLE 2 (IN FILL)**

HORIZ. SCALE 1:250  
VERT. SCALE 1:125



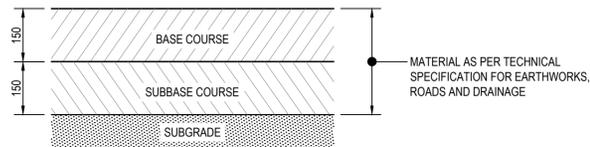
**CUT FILL HARDSTAND INTERFACE SECTION**

NTS

**CUT FILL INTERFACE NOTES**

SILTY CLAY IN THE CUT FILL INTERFACE AREA TO BE REMOVED TO A DEPTH OF UP TO 800mm BELOW THE FINISHED DESIGN SURFACE AND REPLACED WITH SELECTED SITE WON FILL MATERIAL, PLACED IN ACCORDANCE WITH THE SPECIFICATION.

SILTY CLAY MATERIAL MAY BE REUSED AS GENERAL FILL WHERE PLACED 800mm BELOW THE FINISHED DESIGN SURFACE.



**HARDSTAND PAVEMENT DETAIL**

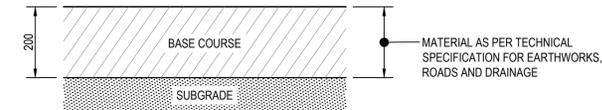
SUBJECT TO FINAL DESIGN BASED ON INSITU STRENGTH TESTING

**PAVEMENT NOTES**

ALL PAVEMENTS ARE BASED ON A SOUND AND TRAFFICABLE SUBGRADE. WET AND/ OR SOFT AREAS FAILING THE SUBGRADE PROOF ROLL TEST MAY REQUIRE SOME FORM OF SUBGRADE IMPROVEMENT. THE DESIGN ENGINEER SHALL BE CONSULTED TO ASSESS OPTIONS SUCH AS:

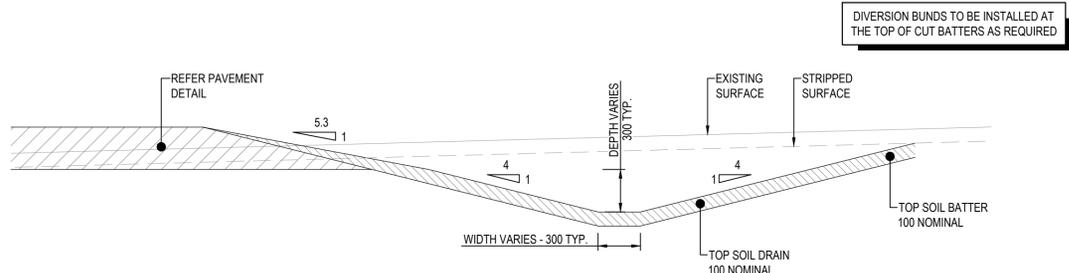
- STABILISATION
- GEOTEXTILE STRENGTHENING
- COARSE ROCKFILL STRENGTHENING
- SUBGRADE REPLACEMENT

OR A COMBINATION OF ALL THESE OPTIONS. SUBGRADE FRICTION ANGLE TO BE 35 DEGREES OR BETTER.



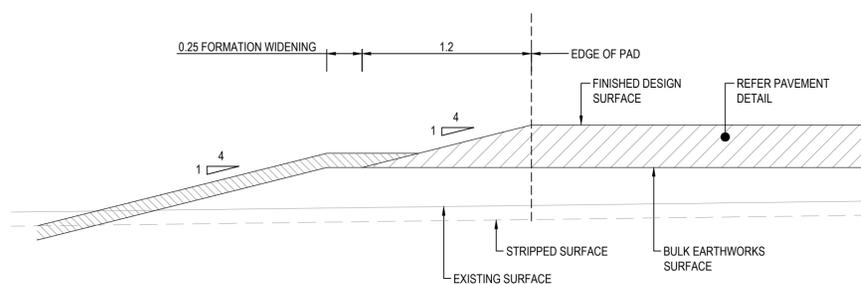
**BLADE SUPPORT PAD PAVEMENT DETAIL**

SUBJECT TO FINAL DESIGN BASED ON INSITU STRENGTH TESTING



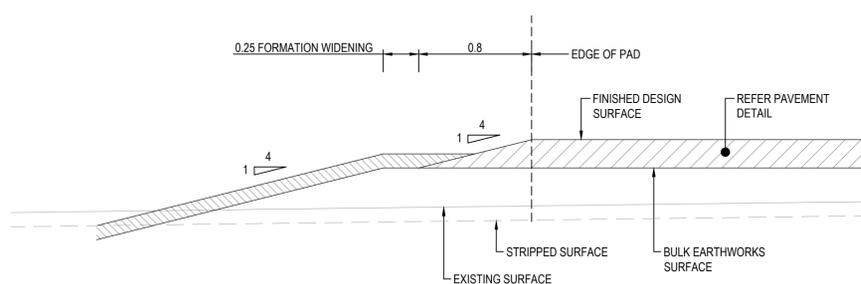
**TYPICAL HARDSTAND, BLADE LAYDOWN AND ASSIST PAD CUT BATTER SECTION**

NTS



**TYPICAL HARDSTAND AND ASSIST PAD FILL BATTER SECTION**

NTS



**TYPICAL BLADE SUPPORT PAD FILL BATTER SECTION**

NTS

**LUCAS** TOTAL CONTRACT SOLUTIONS

**Vestas**

**icubed consulting**  
innovation ingenuity inspiration  
Development Services | Engineering | Project Delivery  
www.icubed.com.au

KING ROCKS WIND FARM

CIVIL  
TYPICAL  
WTG HARDSTAND  
DETAILS  
SHEET 4

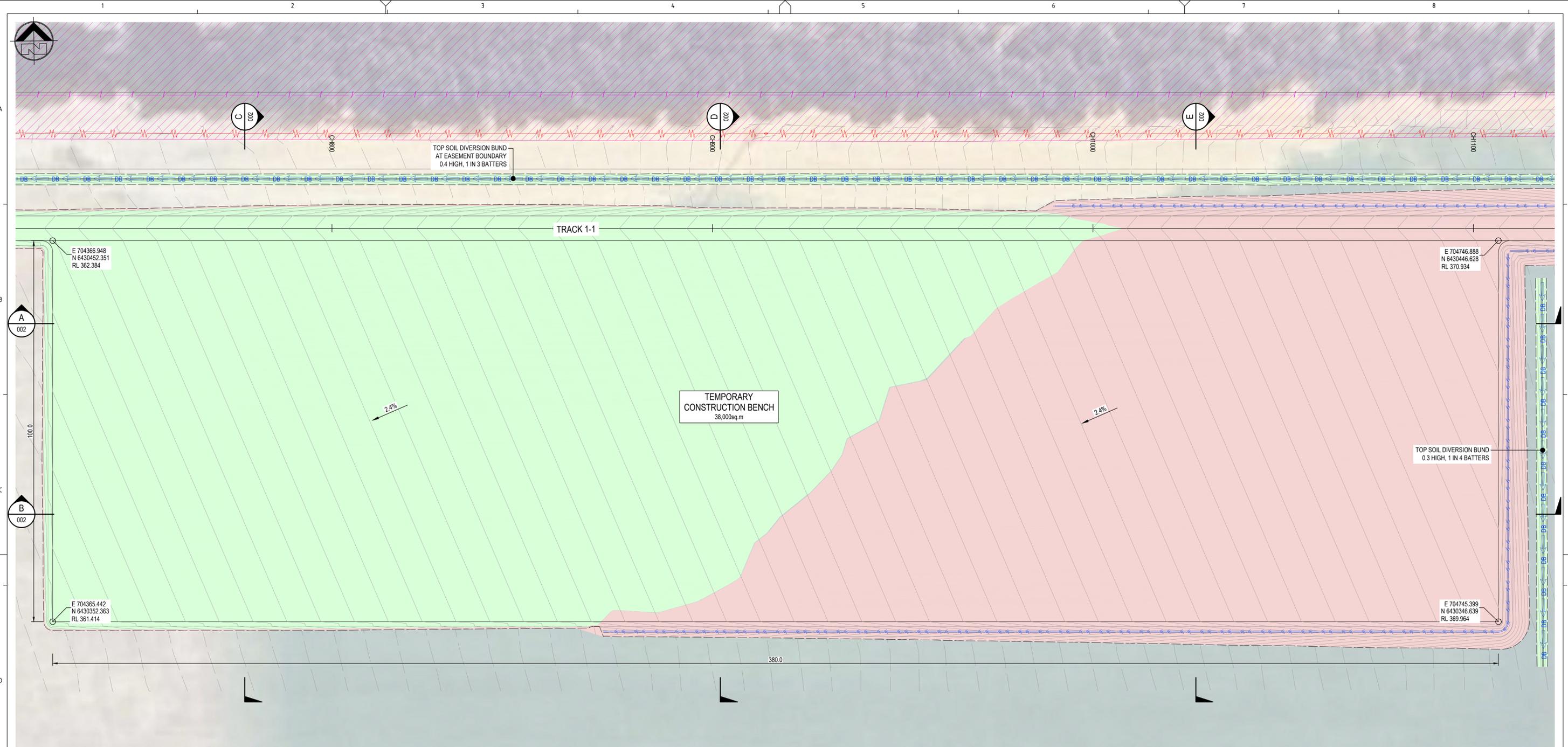
DRAWN	M.WATT	27.06.2025
CHECKED	M.LOWRY	27.06.2025
APPROVED	F.MACMILLAN	27.06.2025

DRAWING NUMBER  
KRWF-C-3041-004



<b>synergy</b>	NEXT SHT	-
	REVISION	A

REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION	DRAWING No	DRAWING REFERENCES
A	26.09.25	D.K.	M.L.	F.M.	ISSUED FOR CONSTRUCTION		
DRAWING REVISIONS							
DRAWING REFERENCES							



**TEMPORARY CONSTRUCTION BENCH LAYOUT**

SCALE 1:500

**DRAINAGE NOTES**

DRAINAGE DESIGN AND BENCH LEVEL ARE TO BE VALIDATED FOLLOWING THE RESULTS OF THE POST DEVELOPMENT FLOOD STUDY.

**NOTES**

COORDINATES SHOWN ARE IN GDA2020 MGA Z50.  
HEIGHT DATUM IS AHD.

**LEGEND**

- LGATE\_CADASTRE\_GDA2020 Z50
- EXISTING FENCE
- EXISTING CONTOURS (0.2m)
- DESIGN CONTOURS (0.2m)
- PROPOSED FLAT BOTTOM DRAIN
- PROPOSED DIVERSION BUND
- EXISTING 132KV OVERHEAD LINE
- NATIVE VEGETATION\_V2
- EARTHWORKS - CUT
- EARTHWORKS - FILL



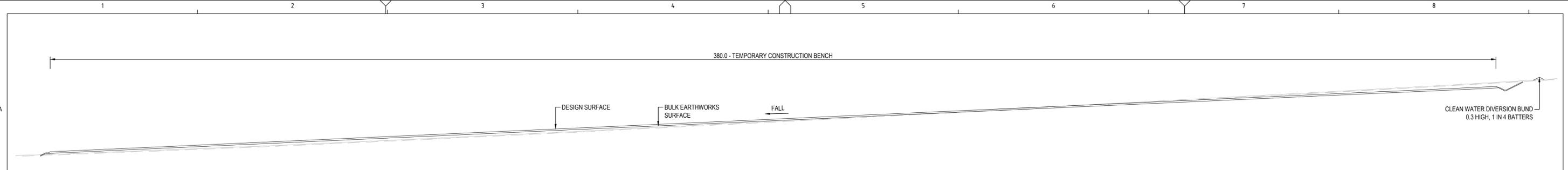
REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION	DRAWING No	TITLE
A	26.09.25	D.K.	M.L.	F.M.	ISSUED FOR CONSTRUCTION		
DRAWING REVISIONS					DRAWING REFERENCES		

KING ROCKS WIND FARM  
TEMPORARY BENCH SHEET 1

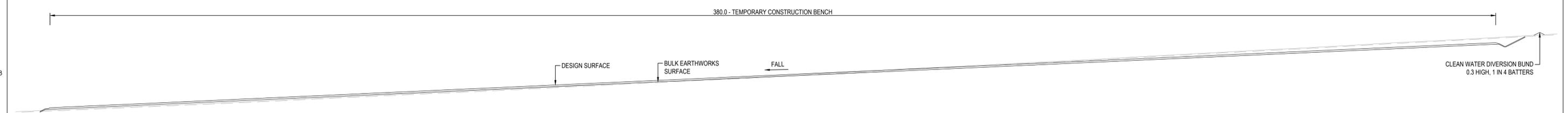
DRAWN	M.LOWRY	17.06.2025
CHECKED	B.PARGE	17.06.2025
APPROVED	F.MACMILLAN	17.06.2025

0 125 25  
SCALE 1: 500 U.O.N.

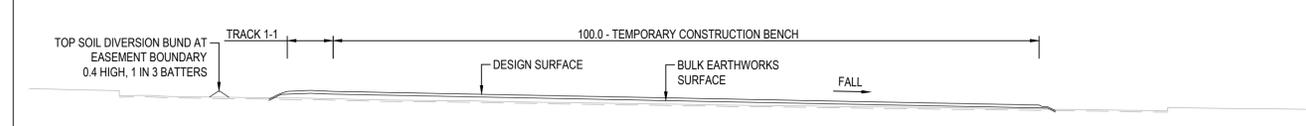
DRAWING NUMBER		NEXT SHT	2
KRWF-C-3042-001			
		REVISION	A



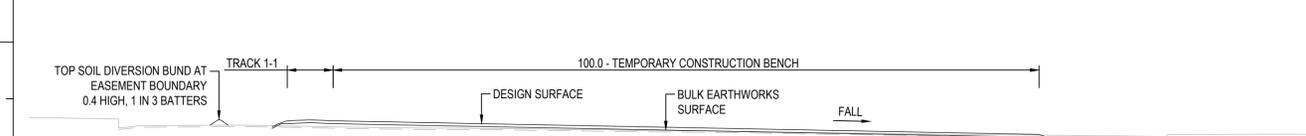
**A TEMPORARY CONSTRUCTION BENCH SECTION**  
 001 HORIZ. SCALE 1:500  
 VERT. SCALE 1:250



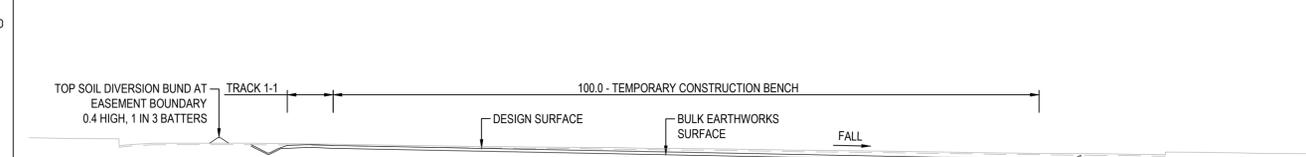
**B TEMPORARY CONSTRUCTION BENCH SECTION**  
 001 HORIZ. SCALE 1:500  
 VERT. SCALE 1:250



**C TEMPORARY CONSTRUCTION BENCH SECTION**  
 001 HORIZ. SCALE 1:500  
 VERT. SCALE 1:250



**D TEMPORARY CONSTRUCTION BENCH SECTION**  
 001 HORIZ. SCALE 1:500  
 VERT. SCALE 1:250



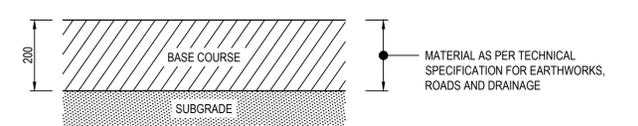
**E TEMPORARY CONSTRUCTION BENCH SECTION**  
 001 HORIZ. SCALE 1:500  
 VERT. SCALE 1:250

**PAVEMENT NOTES**

ALL PAVEMENTS ARE BASED ON A SOUND AND TRAFFICABLE SUBGRADE. WET AND/ OR SOFT AREAS FAILING THE SUBGRADE PROOF ROLL TEST MAY REQUIRE SOME FORM OF SUBGRADE IMPROVEMENT. THE DESIGN ENGINEER SHALL BE CONSULTED TO ASSESS OPTIONS SUCH AS:

- STABILISATION
- GEOTEXTILE STRENGTHENING
- COARSE ROCKFILL STRENGTHENING
- SUBGRADE REPLACEMENT

OR A COMBINATION OF ALL THESE OPTIONS. SUBGRADE ANGLE OF FRICTION TO BE 35 DEGREES OR BETTER.



**BENCH PAVEMENT DETAILS**

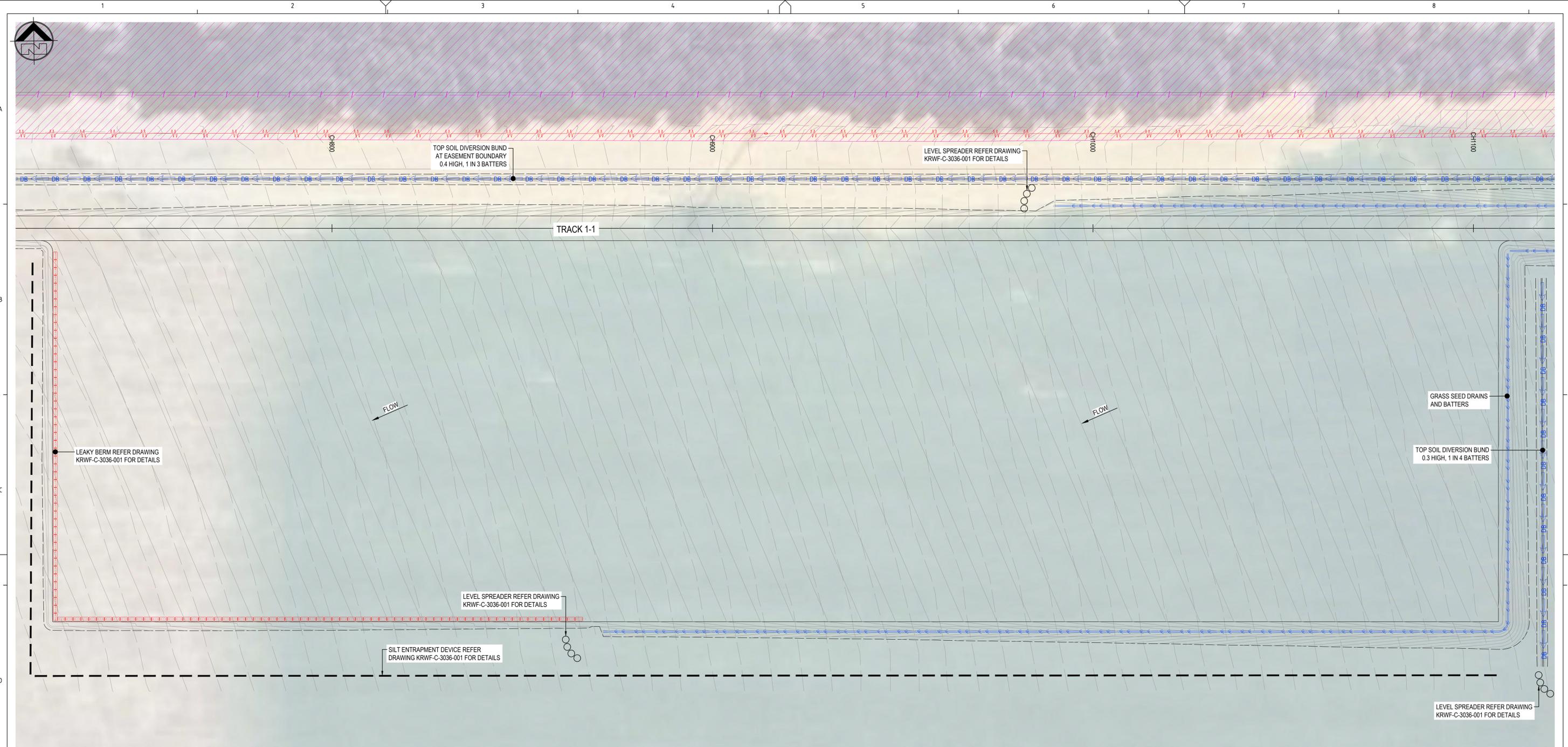
SUBJECT TO FINAL DESIGN BASED ON INSITU STRENGTH TESTING

Innovation ingenuity inspiration  
 Development Services | Engineering | Project Delivery  
 www.icubed.com.au

REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION	DRAWING No	DRAWING REFERENCES
A	26.09.25	D.K.	M.L.	F.M.	ISSUED FOR CONSTRUCTION		
DRAWING REVISIONS							
DRAWING REFERENCES							

KING ROCKS WIND FARM  
 TEMPORARY  
 BENCH  
 SHEET 2

DRAWN	M.LOWRY	17.06.2025	DRAWING NUMBER	KRWF-C-3042-002				
CHECKED	B.PARGE	17.06.2025						
APPROVED	F.MACMILLAN	17.06.2025						
				<table border="1" style="font-size: x-small;"> <tr> <td>NEXT SHT</td> <td>3</td> </tr> <tr> <td>REVISION</td> <td>A</td> </tr> </table>	NEXT SHT	3	REVISION	A
NEXT SHT	3							
REVISION	A							



**TEMPORARY CONSTRUCTION BENCH - EROSION CONTROL LAYOUT**  
SCALE 1:500

**LEGEND**

- LGATE\_CADASTRE\_GDA2020 Z50
- EXISTING FENCE
- EXISTING CONTOURS (0.2m)
- DESIGN CONTOURS (0.2m)
- PROPOSED FLAT BOTTOM DRAIN
- PROPOSED DIVERSION BUND
- EXISTING 132KV OVERHEAD LINE
- NATIVE VEGETATION\_V2
- SILT ENTRAPMENT DEVICE
- LEAKY BERM

**LUCAS**  
TOTAL CONTRACT SOLUTIONS

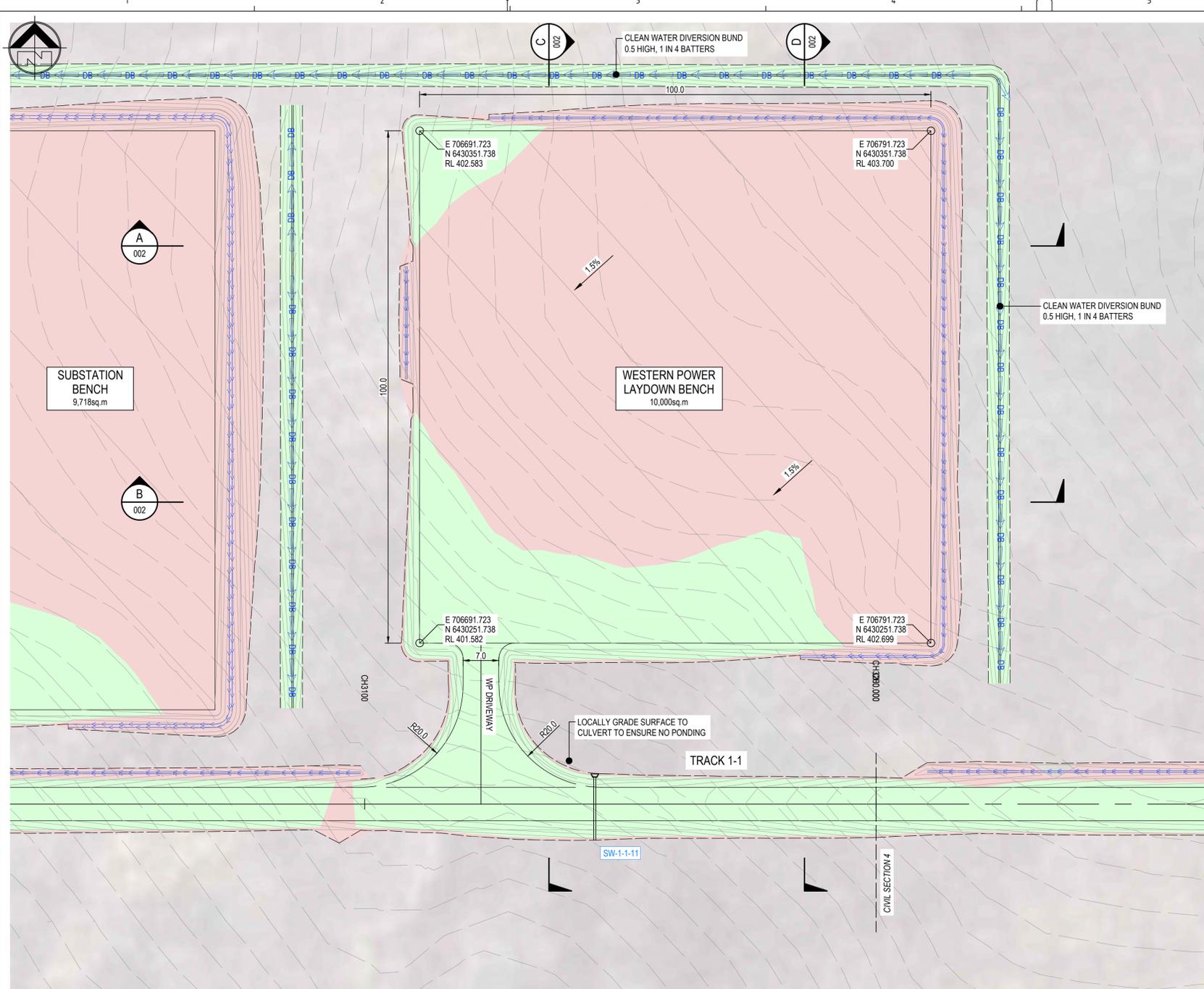
**Vestas**

**icubed consulting**  
Innovation ingenuity inspiration  
Development Services | Engineering | Project Delivery  
www.icubed.com.au

REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION	DRAWING No	TITLE
A	26.09.25	D.K.	M.L.	F.M.	ISSUED FOR CONSTRUCTION	KRWF-C-3036-001	KING ROCKS WIND FARM CIVIL TYPICAL ESC DETAILS
DRAWING REVISIONS					DRAWING REFERENCES		

KING ROCKS WIND FARM  
TEMPORARY BENCH  
SHEET 3

DRAWN	M.WATT	12.08.2025	DRAWING NUMBER	KRWF-C-3042-003				
CHECKED	M.LOWRY	12.08.2025						
APPROVED	F.MACMILLAN	12.08.2025						
<p>SCALE 1: 500 U.O.N.</p>				<table border="1" style="font-size: small;"> <tr> <td>NEXT SHT</td> <td>-</td> </tr> <tr> <td>REVISION</td> <td>A</td> </tr> </table>	NEXT SHT	-	REVISION	A
NEXT SHT	-							
REVISION	A							



**LEGEND**

- EXISTING CONTOURS (0.2m)
- DESIGN CONTOURS (0.2m)
- PROPOSED FLAT BOTTOM DRAIN
- DB — PROPOSED DIVERSION BUND
- PROPOSED CULVERT
- SW-1-1-1 — PROPOSED CULVERT LABEL
- EARTHWORKS - CUT
- EARTHWORKS - FILL

**NOTES**

COORDINATES SHOWN ARE IN GDA2020 MGA Z50.  
HEIGHT DATUM IS AHD.

**WESTERN POWER LAYDOWN BENCH LAYOUT**

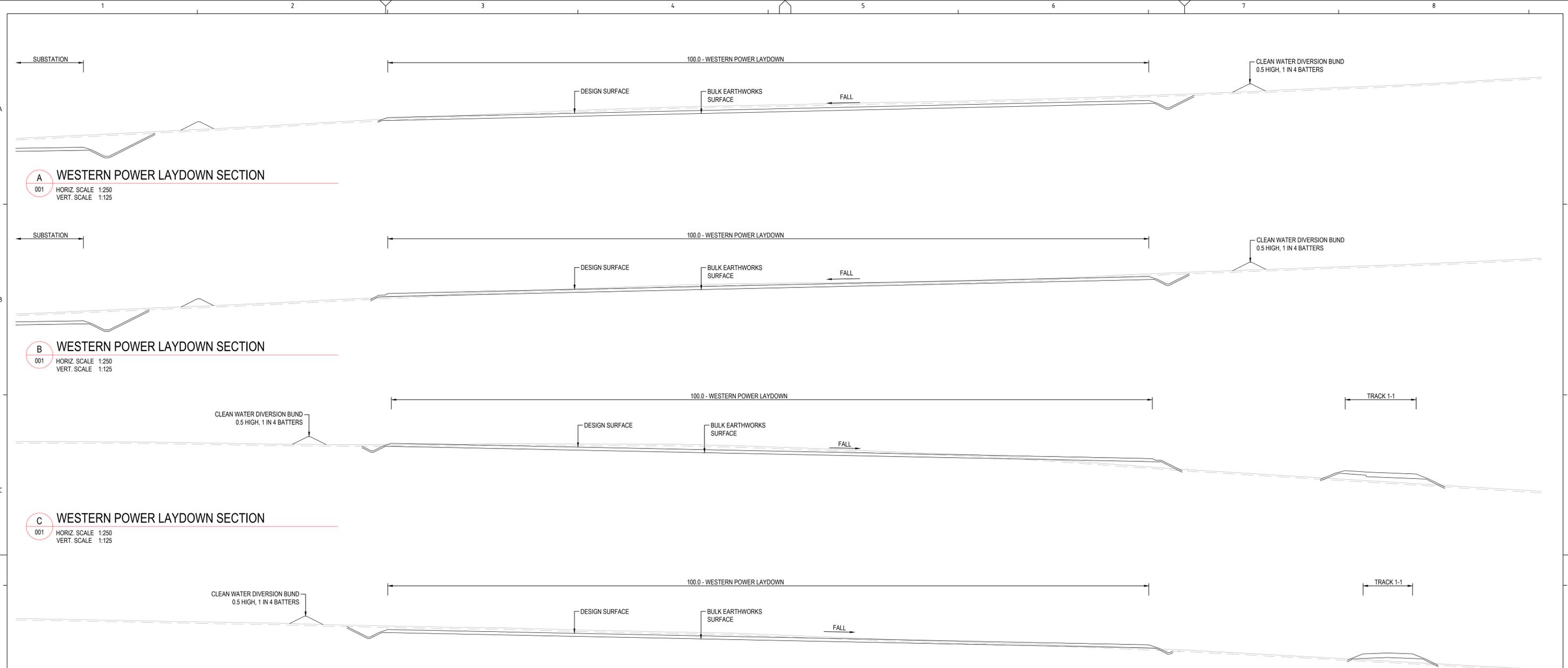
SCALE 1:500



REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION	DRAWING No	TITLE
A	30.10.25	M.L.	B.P.	F.M.	ISSUED FOR CONSTRUCTION		
DRAWING REVISIONS							
DRAWING REVISIONS						DRAWING REFERENCES	

KING ROCKS WIND FARM  
WESTERN POWER LAYDOWN BENCH SHEET 1

DRAWN	M.LOWRY	17.06.2025	DRAWING NUMBER KRWF-C-3043-001
CHECKED	B.PARGE	17.06.2025	
APPROVED	F.MACMILLAN	17.06.2025	
			NEXT SHT 2
			REVISION A



**A WESTERN POWER LAYDOWN SECTION**  
 001 HORIZ. SCALE 1:250  
 VERT. SCALE 1:125

**B WESTERN POWER LAYDOWN SECTION**  
 001 HORIZ. SCALE 1:250  
 VERT. SCALE 1:125

**C WESTERN POWER LAYDOWN SECTION**  
 001 HORIZ. SCALE 1:250  
 VERT. SCALE 1:125

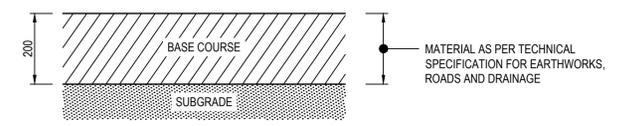
**D WESTERN POWER LAYDOWN SECTION**  
 001 HORIZ. SCALE 1:250  
 VERT. SCALE 1:125

**PAVEMENT NOTES**

ALL PAVEMENTS ARE BASED ON A SOUND AND TRAFFICABLE SUBGRADE. WET AND/ OR SOFT AREAS FAILING THE SUBGRADE PROOF ROLL TEST MAY REQUIRE SOME FORM OF SUBGRADE IMPROVEMENT. THE DESIGN ENGINEER SHALL BE CONSULTED TO ASSESS OPTIONS SUCH AS:

- STABILISATION
- GEOTEXTILE STRENGTHENING
- COARSE ROCKFILL STRENGTHENING
- SUBGRADE REPLACEMENT

OR A COMBINATION OF ALL THESE OPTIONS. SUBGRADE ANGLE OF FRICTION TO BE 35 DEGREES OR BETTER.



**BENCH PAVEMENT DETAILS**

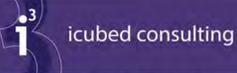
SUBJECT TO FINAL DESIGN BASED ON INSITU STRENGTH TESTING



**LUCAS**  
TOTAL CONTRACT SOLUTIONS



**Vestas**

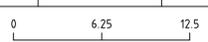


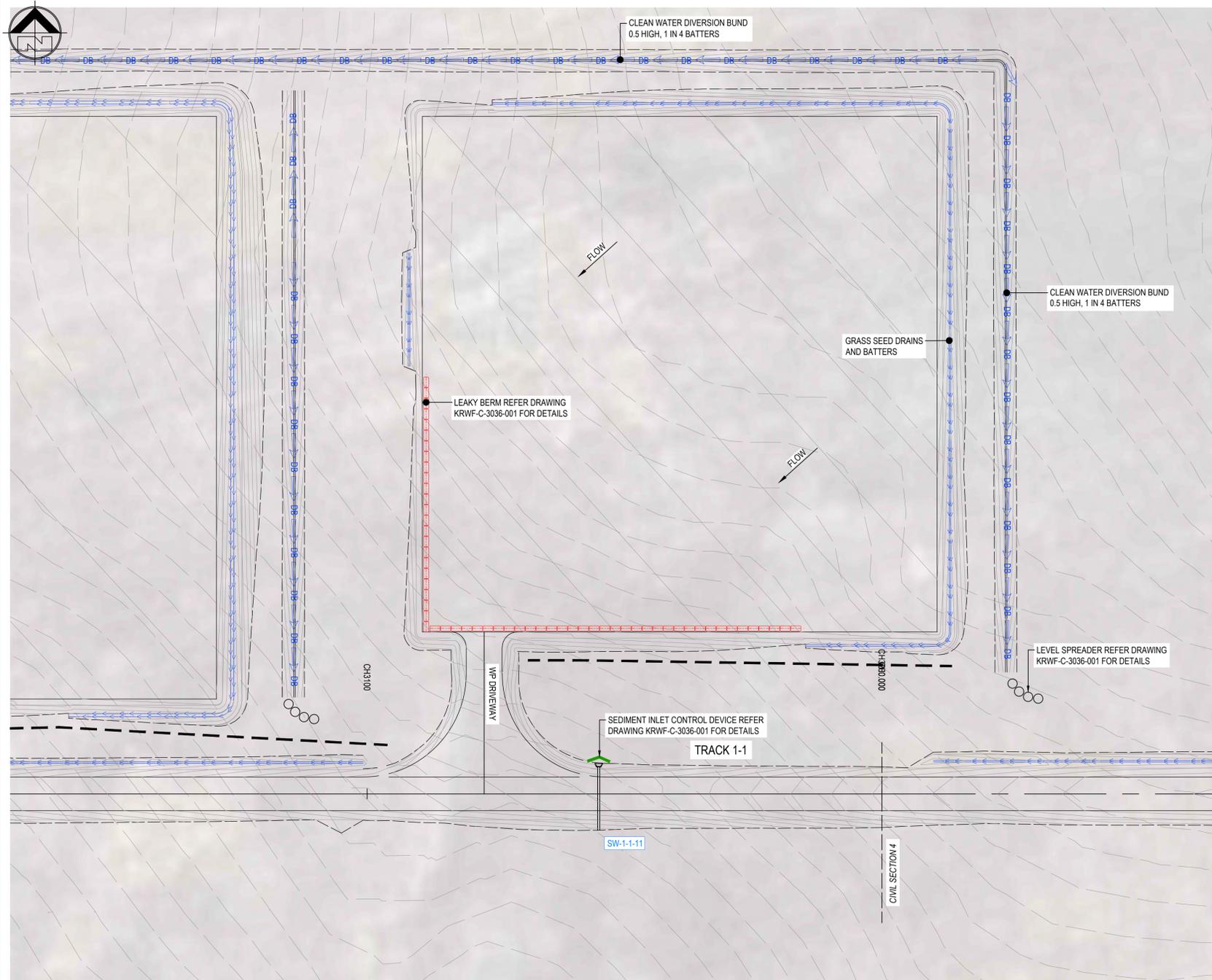
**icubed consulting**  
innovation ingenuity inspiration

Development Services | Engineering | Project Delivery  
www.icubed.com.au

REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION	DRAWING No	DRAWING REFERENCES
A	30.10.25	M.L.	B.P.	F.M.	ISSUED FOR REVIEW		
DRAWING REVISIONS							
DRAWING REFERENCES							

KING ROCKS WIND FARM  
 WESTERN POWER LAYDOWN  
 BENCH SHEET 2

DRAWN	M.LOWRY	17.06.2025	DRAWING NUMBER	KRWF-C-3043-002
CHECKED	B.PARGE	17.06.2025		
APPROVED	F.MACMILLAN	17.06.2025		
 SCALE 1: 250 U.O.N.				NEXT SHT 3 REVISION A



**LEGEND**

- EXISTING CONTOURS (0.2m)
- DESIGN CONTOURS (0.2m)
- PROPOSED FLAT BOTTOM DRAIN
- PROPOSED DIVERSION BUND
- PROPOSED CULVERT
- PROPOSED CULVERT LABEL
- SILT ENTRAPMENT DEVICE
- INLET SEDIMENT CONTROL DEVICE
- LEAKY BERM

**WESTERN POWER LAYDOWN BENCH - EROSION CONTROL LAYOUT**

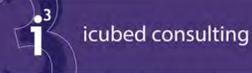
SCALE 1:500



**LUCAS**  
TOTAL CONTRACT SOLUTIONS



**Vestas**



**icubed consulting**  
innovation ingenuity inspiration

Development Services | Engineering | Project Delivery  
www.icubed.com.au

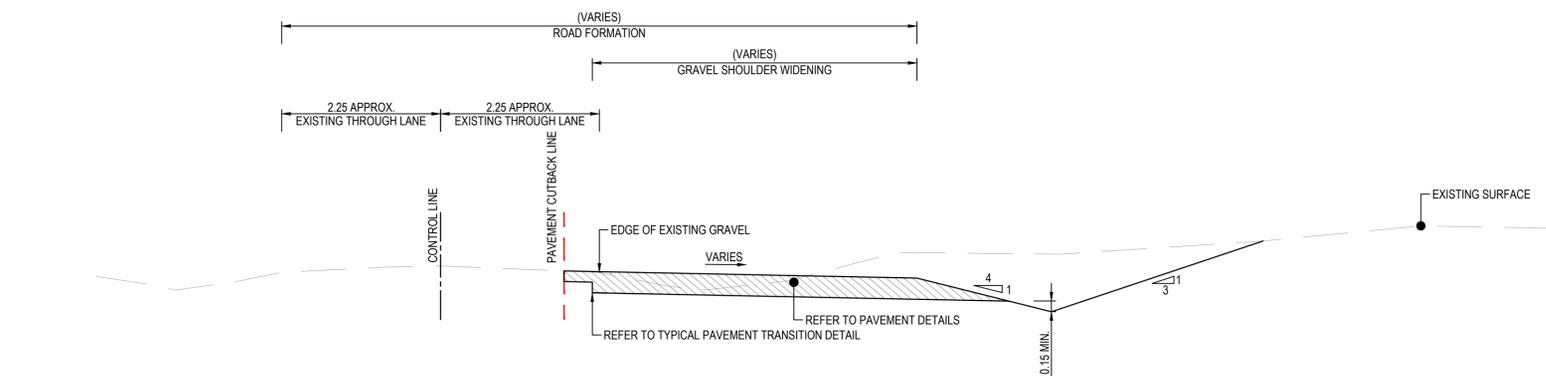
REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION	DRAWING No	TITLE
A	30.10.25	M.L.	B.P.	F.M.	ISSUED FOR CONSTRUCTION	KRWF-C-3036-001	KING ROCKS WIND FARM CIVIL TYPICAL ESC DETAILS
DRAWING REVISIONS					DRAWING REFERENCES		

KING ROCKS WIND FARM  
WESTERN POWER  
LAYDOWN  
BENCH  
SHEET 3

DRAWN	M.LOWRY	26.09.2025	DRAWING NUMBER	KRWF-C-3043-003
CHECKED	B.PARGE	26.09.2025		
APPROVED	F.MACMILLAN	26.09.2025		
 SCALE 1: 500 U.O.N.				NEXT SHT - REVISION A

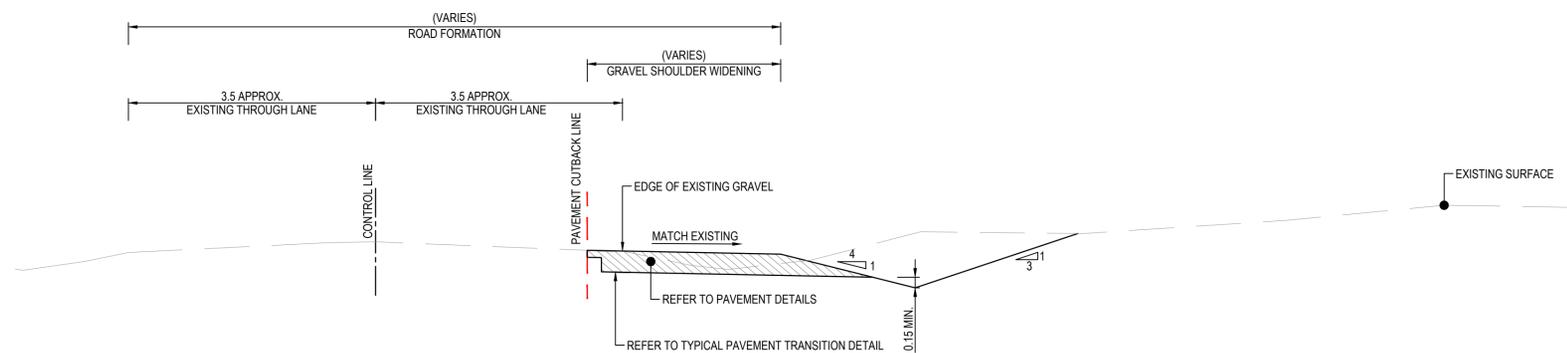
**NOTES**

- CUTBACK LINE TO BE ON THE EDGE OF EXISTING BITUMEN SEAL ON SEDGEWICK ROAD.
- CUTBACK LINE MAY BE SHIFTED CLOSER TO CENTRELINE OF THE ROADS IF REQUIRED ON SITE DUE TO SHOULDER OR PAVEMENT DEFECTS.
- IF SEAL WIDTH IS REDUCED BY GREATER THAN 0.25m, SEAL TO BE REINSTATED ALONG SEDGEWICK ROAD.
- REFER TO KRWF-C-3049-001 FOR ROADWORKS NOTES.
- AT THE SITE ENTRY INTERSECTION, PAVEMENT TO TRANSITION TO INTERNAL WIND FARM PAVEMENT AT A MINIMUM 2m FROM THE CUTBACK LINE.



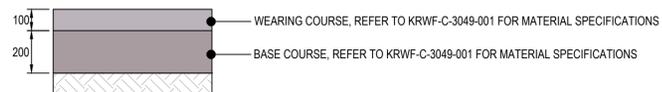
**LOWERING ROAD & KING ROCKS ROAD NORTH TYPICAL CROSS SECTION**

SCALE NTS



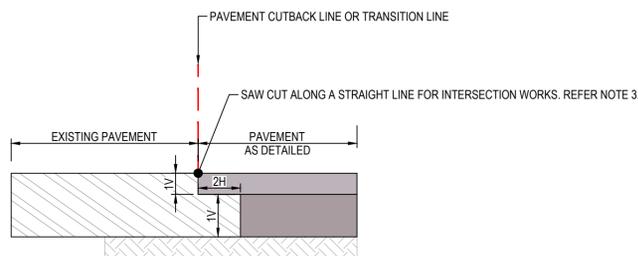
**SEDGEWICK ROAD & BILLERICAY ROAD EAST TYPICAL CROSS SECTION**

SCALE NTS



**PAVEMENT DETAIL - EXTERNAL INTERSECTIONS**

SCALE NTS



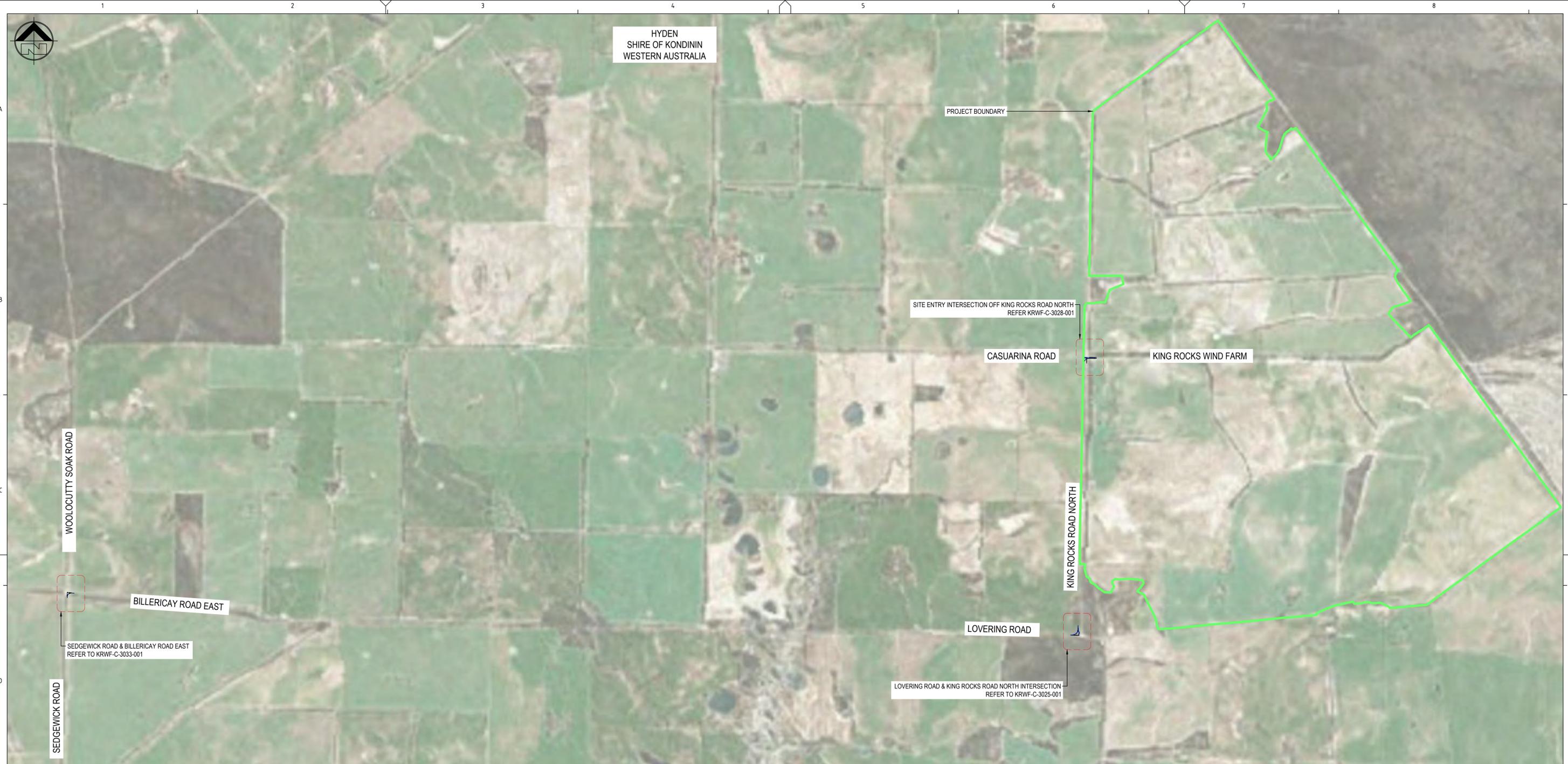
**TYPICAL PAVEMENT TRANSITION DETAIL**

NTS

				KRWf-C-3025-001		LOWERING ROAD & KING ROCKS ROAD NORTH GENERAL ARRANGEMENT		<b>KING ROCKS WIND FARM</b> KING ROCKS WIND FARM ROAD MODIFICATION TYPICAL CROSS SECTIONS AND DETAILS		DRAWN N.CHADUN 18.11.2025		DRAWING NUMBER	
				KRWf-C-3033-001		SEDGEWICK ROAD & BILLERICAY ROAD EAST INTERSECTION GENERAL ARRANGEMENT				CHECKED F.MACMILLAN 18.11.2025		KRWF-C-3047-001	
				KRWf-C-3040-001		KING ROCKS WIND FARM CIVIL TYPICAL ACCESS TRACK DETAILS SHEET 1				APPROVED J.MASON 18.11.2025		NEXT SHT -	
				KRWf-C-3049-001		TYPICAL NOTES						REVISION A	
A 18.11.25 N.C.B F.M. J.M. ISSUED FOR CONSTRUCTION REV DATE DRWN CHK'D APP'D				DESCRIPTION		DRAWING No		TITLE		SCALE: AS SHOWN			
DRAWING REVISIONS				DRAWING REFERENCES									



HYDEN  
SHIRE OF KONDININ  
WESTERN AUSTRALIA



**KING ROCKS WIND FARM EXTERNAL ROAD INTERSECTIONS - LOCALITY PLAN**

SCALE 1:2,500

**DRAWING INDEX**

KRWF-C-3048-001	KING ROCKS WIND FARM ROAD MODIFICATION DRAWING INDEX AND LOCALITY PLAN
KRWF-C-3049-001	KING ROCKS WIND FARM ROAD MODIFICATION TYPICAL NOTES
KRWF-C-3047-001	KING ROCKS WIND FARM ROAD MODIFICATION TYPICAL CROSS SECTIONS AND DETAILS
KRWF-C-3025-001	KING ROCKS WIND FARM ROAD MODIFICATION LOVERING ROAD & KING ROCKS ROAD NORTH INTERSECTION GENERAL ARRANGEMENT
KRWF-C-3028-001	KING ROCKS WIND FARM ROAD MODIFICATION SITE ENTRY INTERSECTION OFF KING ROCKS ROAD NORTH GENERAL ARRANGEMENT
KRWF-C-3033-001	KING ROCKS WIND FARM ROAD MODIFICATION SEDGEWICK ROAD & BILLERICAY ROAD EAST INTERSECTION GENERAL ARRANGEMENT

innovation ingenuity inspiration

Development Services | Engineering | Project Delivery  
www.icubed.com.au

REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION	DRAWING No	TITLE
A	18.11.25	N.C.B.	F.M.	J.M.	ISSUED FOR CONSTRUCTION		
DRAWING REVISIONS					DRAWING REFERENCES		

KING ROCKS WIND FARM				
KING ROCKS WIND FARM ROAD MODIFICATION				
DRAWING INDEX AND LOCALITY PLAN				
DRAWN	N.CHADUN	18.11.2025	DRAWING NUMBER	
CHECKED	F.MACMILLAN	18.11.2025	KRWF-C-3048-001	
APPROVED	J.MASON	18.11.2025		
SCALE: AS SHOWN				
			NEXT SHT	-
			REVISION	A

## GENERAL NOTES

- THESE GENERAL NOTES APPLY TO THE FOLLOWING DESIGNS:
  - COVERING ROAD & KING ROCKS ROAD NORTH INTERSECTION
  - SITE ENTRY INTERSECTION OFF KING ROCKS ROAD NORTH
  - SEDGEWICK ROAD & BILLERICAY ROAD EAST INTERSECTION
- BEFORE PROCEEDING WITH THE WORK ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS SHALL BE REFERRED FOR DECISION TO THE CERTIFYING ENGINEER.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE DEVELOPMENT APPROVAL SHIRE OF KONDININ LOCAL PLANNING SCHEME AND MAINROADS WESTERN AUSTRALIA STANDARDS, IN THAT ORDER.
- WHERE CONSTRUCTION REQUIREMENTS / SPECIFICATIONS ARE REFERENCED DURING CONSTRUCTION THE FOLLOWING DOCUMENTS ARE STIPULATED IN THE ORDER OF PRECEDENCE:
  - APPROVED DEVELOPMENTAL APPLICATION.
  - DESIGN DRAWINGS.
  - MAINROADS WA SPECIFICATIONS AND STANDARD DRAWINGS.

## EARTHWORKS NOTES

- COMPACTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH WA 302 ANNEXURE 302B:
  - EMBANKMENT FOUNDATION - 88% DRY DENSITY RATIO.
  - EMBANKMENT CONSTRUCTION - 90% DRY DENSITY RATIO.
  - SUBGRADE PREPARATION - 92% DRY DENSITY RATIO.
- UNSATURABLE MATERIAL SHALL BE EXCAVATED AND DISPOSED OF IN ACCORDANCE WITH WA 301 VEGETATION CLEARING AND DEMOLITION.
- WET AND/ OR SOFT AREAS FAILING SUBGRADE TESTS (UNSATURABLE MATERIAL) WILL REQUIRE SUBGRADE IMPROVEMENT PRIOR TO THE PLACEMENT OF FURTHER PAVEMENT LAYERS. THE CERTIFYING ENGINEER SHALL BE CONSULTED TO ASSESS TREATMENTS SUCH AS:
  - LIME STABILISATION
  - CEMENT STABILISATION
  - OR A COMBINATION OF THESE OPTIONS
 ALL TREATMENTS SHALL BE IN ACCORDANCE WITH WA 302 EARTHWORKS AND THE RESPECTIVE ANNEXURE.
- EXCESS SPOIL MATERIAL GENERATED DURING CONSTRUCTION SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR OR USED FOR REVEGETATION AND LANDSCAPING.
- ALL BATTER SLOPES AND GROUND SURFACES SHALL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF WA 304 REVEGETATION AND LANDSCAPING. NATIVE SEED SHALL BE APPLIED TO ALL BATTER AREAS AND DESIGNATED REVEGETATION ZONES IN STRICT ACCORDANCE WITH WA 304.
- SPOIL MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH WA 302 EARTHWORKS.

## CLEARING NOTES

- ALL VEGETATION CLEARING SHALL BE IN ACCORDANCE WITH WA 301 VEGETATION CLEARING AND DEMOLITION AND AS SPECIFIED ON DESIGN DRAWINGS.
- VEGETATION CLEARING SHALL BE WITHIN AGREED UPON EXTENTS AS SHOWN ON THE LAYOUT DRAWINGS.
- EARTHWORKS OPERATIONS SHALL MEET THE REQUIREMENTS AS SPECIFIED IN WA 204 ENVIRONMENTAL MANAGEMENT AND / OR WA 301 VEGETATION CLEARING AND DEMOLITION.

## SPRAYED SEAL NOTES

- CERTIFYING ENGINEER SHALL CONFIRM REQUIREMENTS FOR CUTTING EXISTING SEAL ON SITE AND SHALL BE IN ACCORDANCE WITH WA 302 EARTHWORKS.
- IF REQUIRED, CERTIFYING ENGINEER TO COMPLETE SEAL DESIGN IN ACCORDANCE WITH WA 503 BITUMINOUS SURFACING.

## ROAD FURNITURE NOTES

- ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH AS1742.2-2022 AND THE WA GUIDELINE SIGN STANDARDS.
- ALL SIGNS SHALL BE SIZE B UNLESS NOTED OTHERWISE.
- ROAD EDGE GUIDE POSTS SHALL BE INSTALLED IN ACCORDANCE WITH AS1742.2-2022 AND WA 602 GUIDE POSTS.
- NEW FENCE SHALL BE INSTALLED AT ALL LOCATIONS WHERE FENCING HAS BEEN REMOVED IN ACCORDANCE WITH WA 903 FENCING. REFER TO DRAWINGS FOR SETOUT LOCATIONS. IF NO SETOUT INFORMATION IS PROVIDED, FENCES SHALL BE INSTALLED A MINIMUM OF 1m FROM BATTER INTERFACE LINE.
- GATES SHALL BE INSTALLED AT ALL LOCATIONS WHERE GATES HAVE BEEN REMOVED.

## SURVEY CONTROL NOTES

- SURVEY HAS BEEN PREPARED BY SPIRE. MGA 2020 ZONE 50, BASED ON STATIC OBSERVATIONS TO CORS STATION 50195M001 / HYDEN PM 87  
E 677835.083  
N 6408176.914  
BEARING DATUM IS MGA 2020 ZONE 50.

## SEDIMENT AND EROSION CONTROL NOTES

- REFER TO DETAILS ON THIS SHEET FOR TYPICAL EROSION AND SEDIMENT CONTROL.

## ROADWORK NOTES

- GENERAL:
  - EACH PAVEMENT LAYER WORKED SHALL BE GENERALLY PARALLEL TO THE FINISHED PAVEMENT SURFACE AND SHALL EXTEND THE FULL WIDTH OF THE LAYER.
  - COMPACTION TESTS OF EACH LAYER ARE REQUIRED, AND THE CERTIFYING ENGINEER SHALL ENSURE THAT ALL TESTS MEET SPECIFICATION BEFORE PROCEEDING TO THE NEXT LAYER.
  - COMPACTION SHALL BE CARRIED OUT AT A CONSTRUCTION MOISTURE CONTENT IN THE LOT WITHIN THE RANGE OF 90% - 110% IN ACCORDANCE WITH WA 501 PAVEMENTS.
  - PAVEMENT CONSTRUCTION SHALL NOT COMMENCE UNTIL THE LAYER 150mm BELOW THE SUBGRADE HAS DRIED BACK TO THE REQUIREMENTS OF WA 501.43.
  - UNBOUND PAVEMENT COURSE MATERIAL SHALL BE KEPT AT OPTIMUM MOISTURE CONTENT AT ALL TIMES DURING CONSTRUCTION.
- COMPACTION TESTING:
  - DETERMINATION OF THE COMPACTION PERFORMANCE OF THE EARTHWORKS AND SUBGRADE AND PAVEMENT GRAVEL MATERIALS (I.E. LABORATORY REFERENCE DENSITY, FIELD DENSITY, OPTIMUM MOISTURE CONTENT, FIELD MOISTURE CONTENT) SHALL BE CARRIED OUT IN ACCORDANCE WITH THE METHODS PRESCRIBED IN WA 201.
  - A LOT LAYOUT PLAN SHOWING THE LOCATION OF THE TESTS SHALL BE SUBMITTED TO THE CERTIFYING ENGINEER WITH THE TEST RESULTS.
  - ALL TESTS ARE TO BE DISTRIBUTED REASONABLY EVENLY THROUGH THE FULL DEPTH AND AREA OF PAVEMENT.
  - FAILURE OF MATERIAL QUALITY TESTS WILL REQUIRE REMOVAL OF THE MATERIAL OR FURTHER IN SITU TESTING.

## PAVEMENT NOTES

- ALL PAVEMENTS ARE BASED ON A SOUND AND TRAFFICABLE SUBGRADE AND SHALL BE SPREAD, MIXED AND COMPACTED TO ACHIEVE UNIFORMITY FREE FROM ANY EVIDENCE OF SEGREGATION IN ACCORDANCE WITH WA 501 PAVEMENTS.
- THE WEARING COURSE UTILISED FOR PAVEMENT CONSTRUCTION SHALL HAVE THE FOLLOWING TARGETS AS OUTLINED IN ARRB ROADS MATERIALS BEST PRACTICE GUIDE TABLE A6, WHICH MAY BE VARIED AT THE DISCRETION OF THE CERTIFYING ENGINEER:
  - PARTICLE SIZE DISTRIBUTION IN LINE WITH TABLE A 6 OF THE GUIDE.
  - SOAKED CBR >40%
  - PLASTICITY INDEX <20%, WEIGHT PLASTICITY INDEX <500.
- THE BASE COURSE UTILISED FOR PAVEMENT CONSTRUCTION SHALL HAVE THE FOLLOWING TARGETS AS OUTLINED IN WA 501 ANNEXURE 501E:
  - PARTICLE SIZE DISTRIBUTION IN LINE WITH TABLE 501E1.
  - SOAKED CBR >30% IN LINE WITH TABLE 501E2.
  - PLASTICITY INDEX <10%.
- COMPACTION SHALL BE CARRIED OUT AT A CONSTRUCTION MOISTURE CONTENT, AT ANY POINT IN THE LOT WITHIN THE RANGE OF 90% - 110% OF THE OPTIMUM MOISTURE CONTENT. PAVEMENT LAYERS COMPACTION SHALL BE AS PER THE DENSITIES BELOW:
  - BASE COURSE: 96% DRY DENSITY RATIO.
  - WEARING COURSE: 98% DRY DENSITY RATIO.

## CULVERT NOTES

- CULVERT TO BE RCP OR STORMPRO. FOR RCP PIPES REFER TO WA 404 CULVERTS. FOR STORMPRO PIPES, REFER TO THE STORMPRO MANUFACTURER'S GUIDE.
- BEDDING MATERIAL SHALL CONSIST OF BASECOURSE MATERIAL OR APPROVED SUITABLE BY CERTIFYING ENGINEER IN ACCORDANCE WITH WA 404 CULVERTS AND DESIGN DRAWINGS.
- PIPE INSTALLATION TO BE AS PER WA 404 CULVERTS AND DETAILS ON THIS SHEET.
- RCP-CLASS 4 PIPES WITH LESS THAN 400mm COVER MUST BE CONCRETE ENCASED.
- REFER TO DETAILS ON THIS SHEET FOR BEDDING AND TRENCH DETAILS.
- REFER TO KRWF-C-3039-001 FOR ROCK PROTECTION DETAILS.

## ROAD FURNITURE NOTES

- ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH AS1742.2-2022 AND THE WA GUIDELINE SIGN STANDARDS.
- ALL SIGNS SHALL BE SIZE B UNLESS NOTED OTHERWISE.
- ROAD EDGE GUIDE POSTS SHALL BE INSTALLED IN ACCORDANCE WITH AS1742.2-2022 AND WA 602 GUIDE POSTS.
- NEW FENCE SHALL BE INSTALLED AT ALL LOCATIONS WHERE FENCING HAS BEEN REMOVED IN ACCORDANCE WITH WA 903 FENCING. REFER TO DRAWINGS FOR SETOUT LOCATIONS. IF NO SETOUT INFORMATION IS PROVIDED, FENCES SHALL BE INSTALLED A MINIMUM OF 1m FROM BATTER INTERFACE LINE.
- GATES SHALL BE INSTALLED AT ALL LOCATIONS WHERE GATES HAVE BEEN REMOVED.

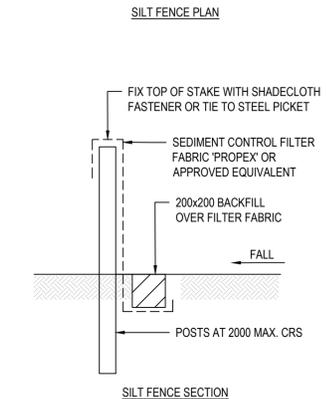
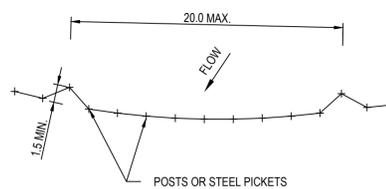
## SURVEY CONTROL NOTES

- SURVEY HAS BEEN PREPARED BY SPIRE. MGA 2020 ZONE 50, BASED ON STATIC OBSERVATIONS TO CORS STATION 50195M001 / HYDEN PM 87  
E 677835.083  
N 6408176.914  
BEARING DATUM IS MGA 2020 ZONE 50.

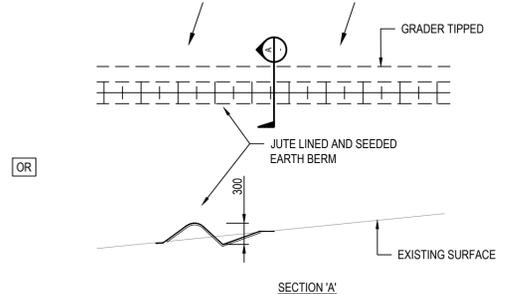
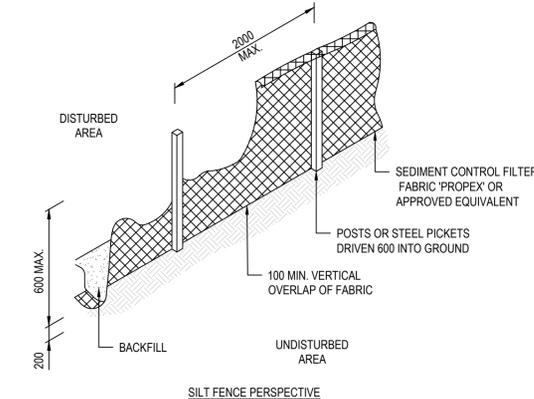
## SEDIMENT AND EROSION CONTROL NOTES

- REFER TO DETAILS ON THIS SHEET FOR TYPICAL EROSION AND SEDIMENT CONTROL.

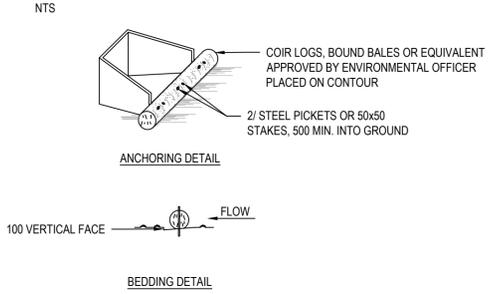
TABLE DRAINS & CUTOFF DRAINS - SCOUR PROTECTION TREATMENTS	
GRADE < 2.5%	GRADE > 2.5%
TOP SOILED & GRASSED	200mm CLAY OR SIMILAR MATERIAL WITH LOW-ERODIBILITY CAPS



ENSURE POST HOLES AND TRENCH ARE PROPERLY BACKFILLED AND COMPACTED

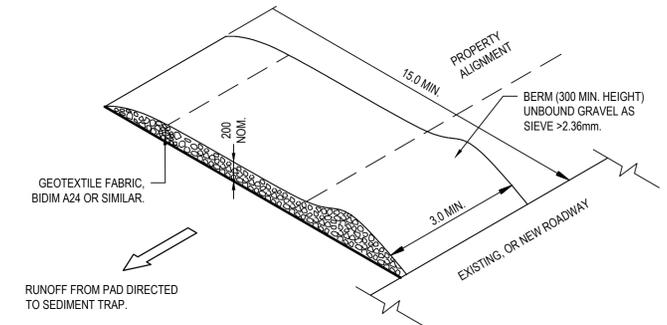


## SILT ENTRAPMENT OPTIONS



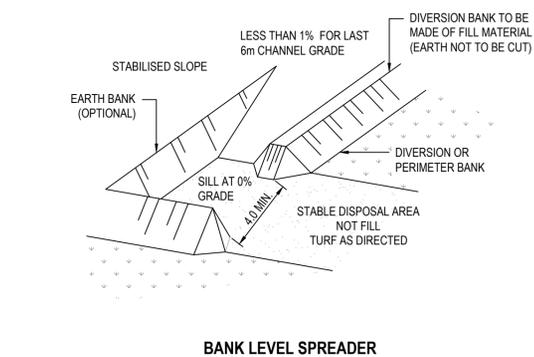
## INLET CONTROL DETAIL

NTS



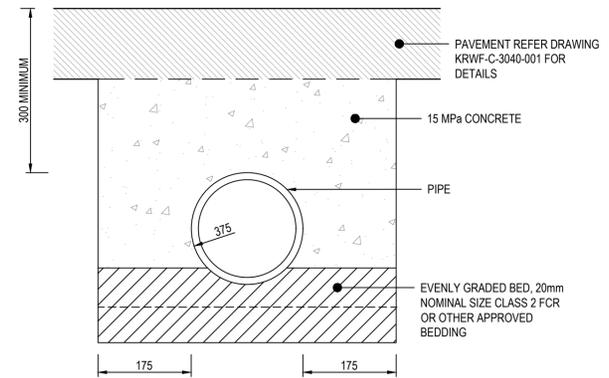
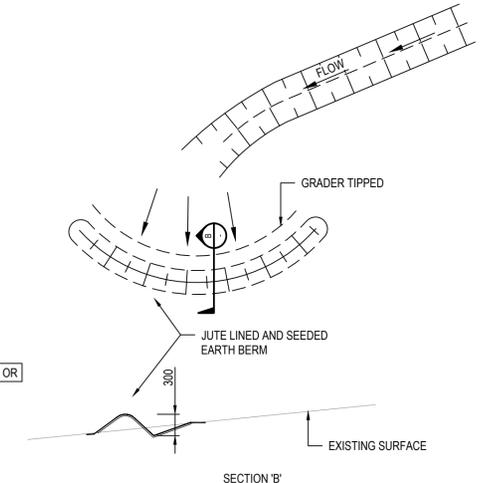
## SHAKEDOWN DETAIL

NTS



## LEVEL SPREADER OPTIONS

NTS



## CULVERT TRENCH DETAIL

NTS

LUCAS  
TOTAL CONTRACT SOLUTIONS

Vestas®

icubed consulting  
Innovation ingenuity inspiration

Development Services | Engineering | Project Delivery  
www.icubed.com.au

KING ROCKS WIND FARM  
KING ROCKS WIND FARM ROAD MODIFICATION  
TYPICAL NOTES

DRAWN	N.CHADUN	18.11.2025	DRAWING NUMBER KRWF-C-3049-001
CHECKED	F.MACMILLAN	18.11.2025	
APPROVED	J.MASON	18.11.2025	
SCALE: AS SHOWN			<p>synergy</p>

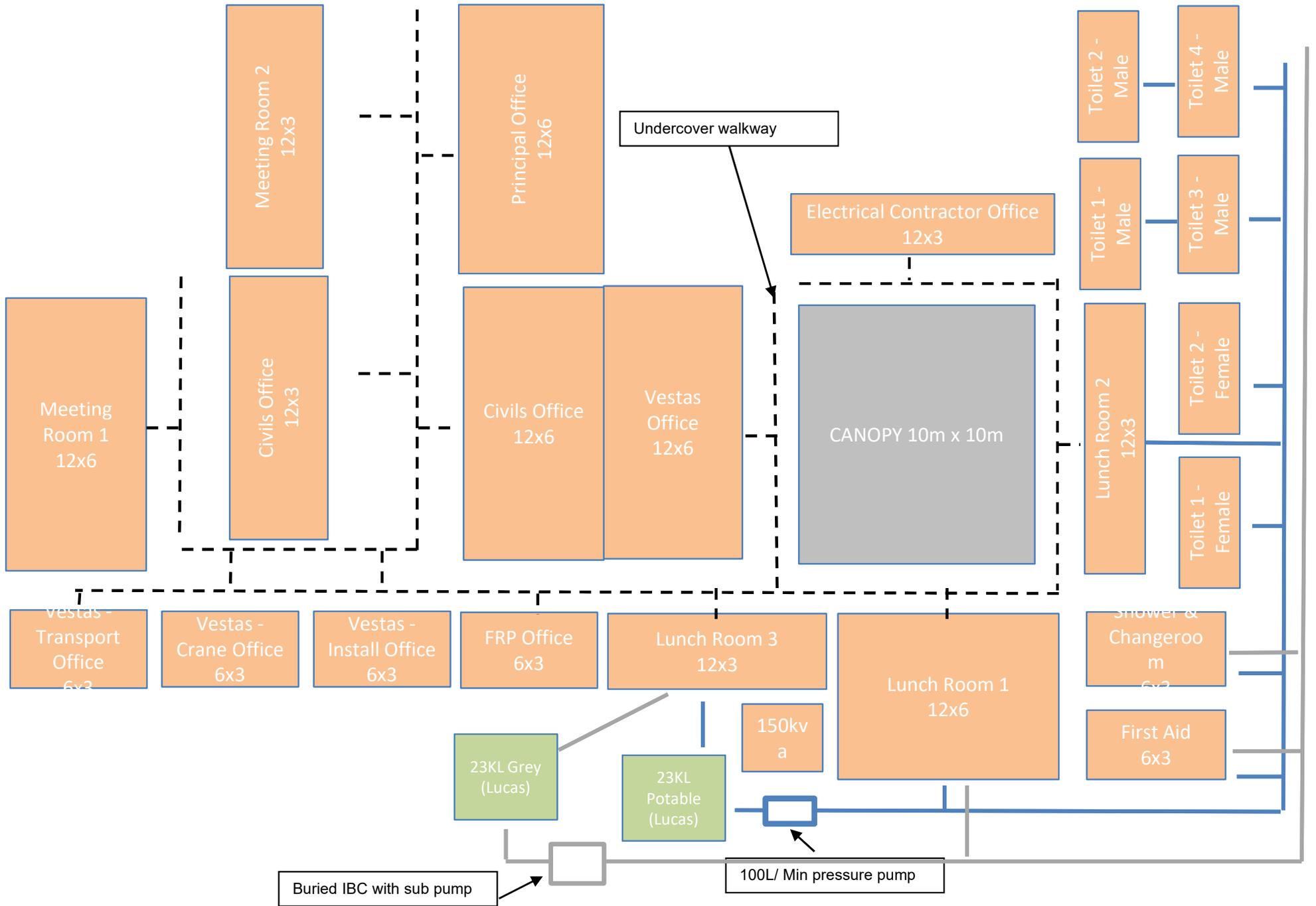
REV	DATE	DRWN	CHK'D	APP'D	DESCRIPTION	DRAWING No	TITLE
A	18.11.25	N.C.B.	F.M.	J.M.	ISSUED FOR CONSTRUCTION		
DRAWING REVISIONS							
DRAWING REFERENCES							



<b>Contractor Document Cover Page</b>						
<b>King Rocks Wind Farm Controlled Document</b>						
<b>Document Information</b>						
Synergy Document No:*	KRFW-PLN-CIV-0001	Rev:	1			
Contract No:	EPC Contract- 21-Dec-24	Total no. of pages: (incl Doc Cover Sheet)	2			
Document Title: *	KING ROCKS WIND FARM SITE COMPOUND OFFICES AND AMENITIES					
Tag No:	NA					
Vendor Document No: *		Rev:	4			
<b>Revision History</b>						
Contractor shall ensure that documents have been fully checked and approved prior to submission to Synergy	<b>Prepared</b>	Wayne Hoey	<b>Checked</b>	Wayne Hoey	<b>Approved</b>	Wayne Hoey
	Date	05/11/2025	Date	05/11/2025	Date	05/11/2025

<b>Notes:</b>	<b>Supplier/Contractors name, Address and Logo:</b>
Layout of site offices and ablutions for review.	Lucas Total Contract Solutions Pty Ltd PO Box 150 BRIGHTON SA 5048 

<b>REVIEWED BY SYNERGY</b>					
A	<input type="checkbox"/>	Accepted (1)			
B	<input type="checkbox"/>	Accepted subject to incorporation of changes indicated (3)			
C	<input type="checkbox"/>	Not accepted (4)			
D	<input type="checkbox"/>	Review not required (5)			
1) Deliverables includes document, drawing, sketch and/or any other support for which a Review is needed 2) Permission to proceed does not constitute approval of design details, calculations, analyses, test methods or material developed or selected by the Contractor. 3) This review: (a) has not included a dimensional check; and (b) does not relieve the Vendor/Contractor from full compliance with Contractual obligations					
			1	05/11/2025	Issued for Information
			0	22/10/2025	Issued for Information
			<b>Rev</b>	<b>Date:</b>	<b>Description</b>
<b>Date:</b>	<b>By:</b>	<b>Revisions to Synergy Document No.</b>			





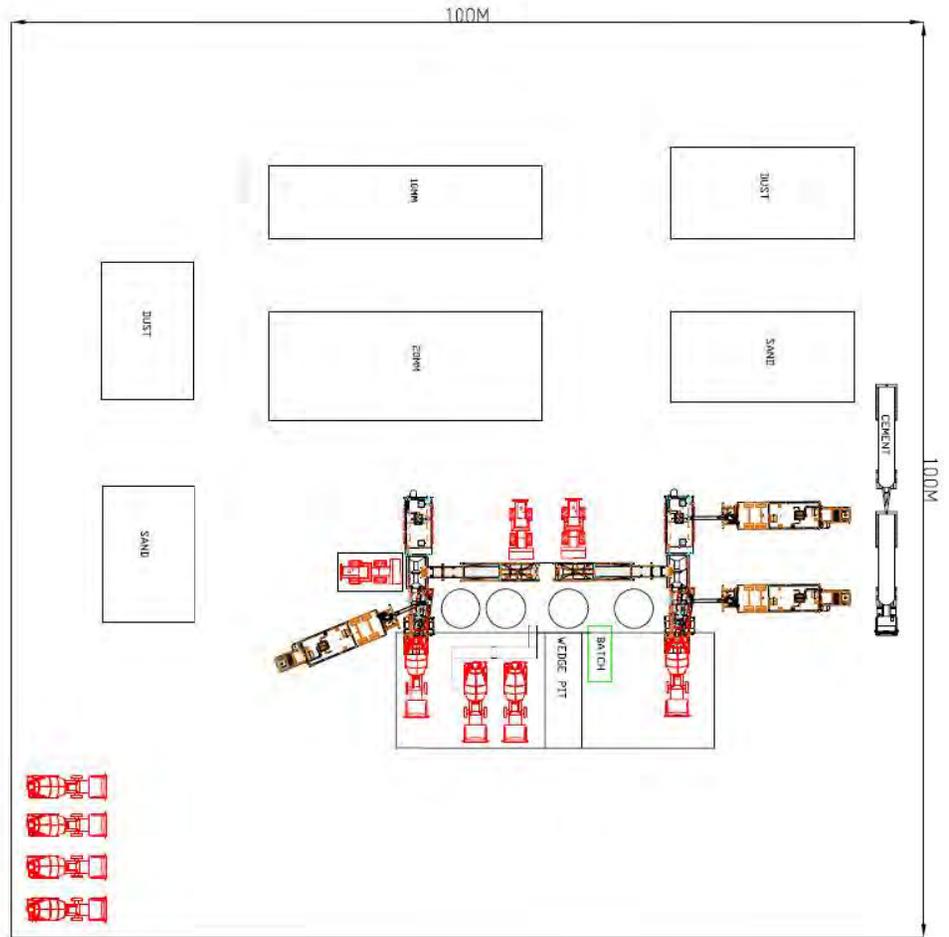
Contractor Document Cover Page						
King Rocks Wind Farm Controlled Document						
Document Information						
Synergy Document No:*	KRWF-PLN-CIV-0002			Rev:	0	
Contract No:	EPC Contract- 21-Dec-24			Total no. of pages: (incl Doc Cover Sheet)	2	
Document Title: *	KING ROCKS WIND FARM MOBILE CONCRETE SERVICES SITE LAYOUT DRAWING					
Tag No:	N/A					
Vendor Document No: *	KRWF-PLN-CIV-0002			Rev:	0	
Revision History						
Contractor shall ensure that documents have been fully checked and approved prior to submission to Synergy	Prepared	Mobile Concrete Services	Checked	Wayne Hoey	Approved	Wayne Hoey
	Date	29/10/2025	Date	29/10/2025	Date	29/10/2025

<b>Notes:</b>	<b>Supplier/Contractors name, Address and Logo:</b>
First Revision. Issued for Information only.	Lucas Total Contract Solutions Pty Ltd PO Box 150 BRIGHTON SA 5048 

REVIEWED BY SYNERGY					
A	<input type="checkbox"/>	Accepted (1)			
B	<input type="checkbox"/>	Accepted subject to incorporation of changes indicated (3)			
C	<input type="checkbox"/>	Not accepted (4)			
D	<input type="checkbox"/>	Review not required (5)			
1) Deliverables includes document, drawing, sketch and/or any other support for which a Review is needed 2) Permission to proceed does not constitute approval of design details, calculations, analyses, test methods or material developed or selected by the Contractor. 3) This review: (a) has not included a dimensional check; and (b) does not relieve the Vendor/Contractor from full compliance with Contractual obligations			0	30/10/2025	Issued for Information
			<b>Rev</b>	<b>Date:</b>	<b>Description</b>
			<b>Date:</b>		
			<b>Revisions to Synergy Document No.</b>		



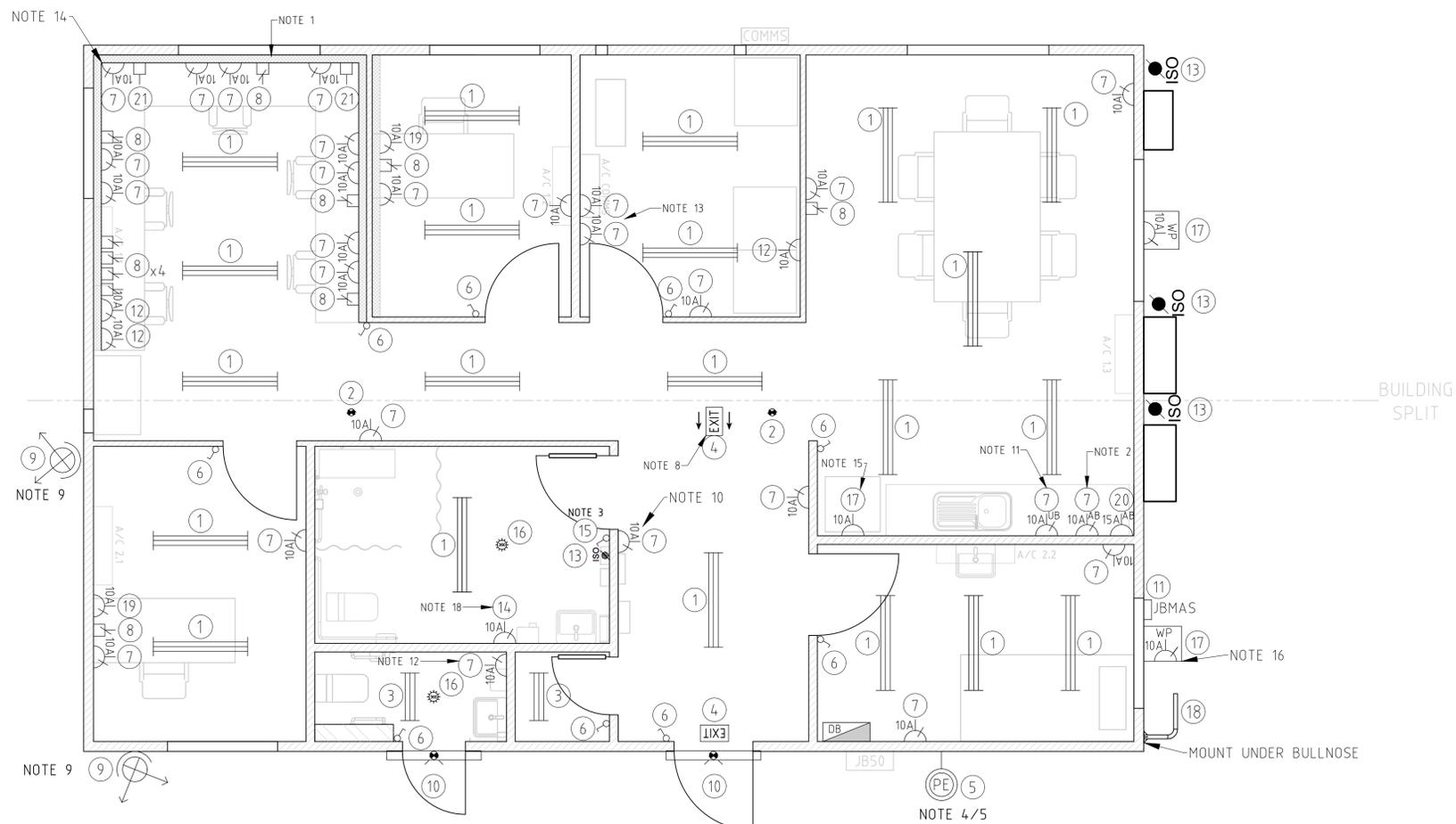
Mobile concrete services- KRWF site layout drawing



EQUIPMENT LIST				
ITEM	DESCRIPTION	QTY	MANUFACTURER	PART No.
1	1200mm LED BATTEN - CEILING SURFACE MOUNT	21	CLEVERTRONICS	EPIC-1200
2	LED SURFACE MOUNT EMERGENCY LIGHT	2	CLEVERTRONICS	CLIFE-SM
3	600mm LED BATTEN - CEILING SURFACE MOUNT	2	CLEVERTRONICS	EPIC-600
4	LED EXIT LIGHT, CEILING SURFACE MOUNTED	2	CLEVERTRONICS	CCFLED
5	PHOTO ELECTRIC CELL	1	CLIPSAL	WS226SSR/3
6	ONE WAY, ONE GANG LIGHT SWITCH	9	CLIPSAL	2031VA-WE
7	10A GENERAL POWER OUTLET - DOUBLE	25	CLIPSAL	2025-WE
8	RJ45 TWIN DOUBLE OUTLET	12	CLIPSAL	30RJ45SMA6C-WE 2032VH-WE
9	200W LED FLOOD LIGHT	2	PIERLITE	MML200A
10	1200mm LED BATTEN - EMERGENCY	2	CLEVERTRONICS	ARGO-1200-EM
11	JUNCTION BOX - MASERATOR	1	RITTAL	TBA

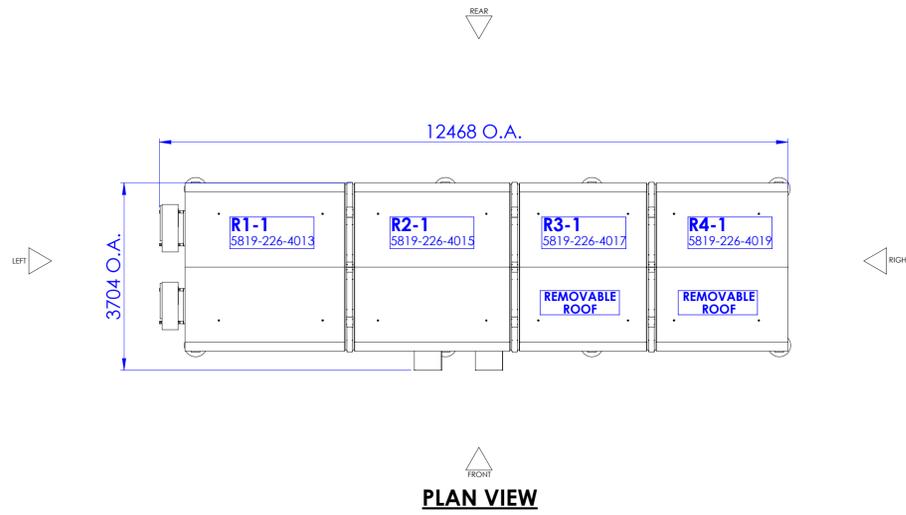
EQUIPMENT LIST				
ITEM	DESCRIPTION	QTY	MANUFACTURER	PART No.
12	UPS RED POWER OUTLET - DOUBLE	3	CLIPSAL	2025-RD
13	40A 3 POLE ISOLATOR IP66	4	KATKO	KEM340YRM2
14	10A GENERAL POWER OUTLET - DOUBLE (PRESTIGE)	1	CLIPSAL	P2025-WE
15	ONE WAY LIGHT SWITCH (PRESTIGE)	1	CLIPSAL	P2031VA
16	CEILING MOUNT 360° PIR SENSOR	2	CLIPSAL	753RWE
17	10A DOUBLE GENERAL POWER OUTLET - WEATHERPROOF	2	CLIPSAL	WSC227F2-RG
18	ANTENNA MOUNT	1	TO SUIT STARLINK	-
19	10A DOUBLE GPO W/USB	2	CLIPSAL	2025USBC-WE
20	15A GENERAL POWER OUTLET - SINGLE	1	CLIPSAL	2015/15-WE
21	RJ45 SINGLE OUTLET	2	CLIPSAL	30RJ45SMA6C-WE 2031VH-WE

LEGEND:  
 'X'A | AB = ABOVE BENCH  
 'X'A | UB = UNDER BENCH

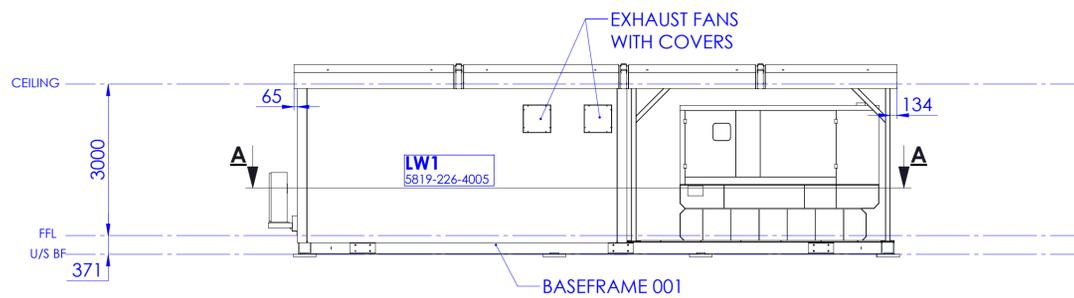


- NOTES:
- GPOs AND DATA POINTS TO BE MOUNTED 700mm AFFL IN TRUNKING (BELOW DESK HEIGHT)
  - KITCHEN GPOs TO BE MOUNTED 300mm ABOVE BENCH HEIGHT APPROX.
  - PRESTIGE SERIES LIGHT SWITCHES TO BE MOUNTED AT 1100mm, ALL OTHER LIGHT SWITCHES TO BE MOUNTED AT 1300mm AFFL
  - PE CELL TO BE MOUNTED ABOVE BASE FRAME LEVEL FOR MAINTENANCE
  - PE CELL ADJUSTABLE FOR TIME SETTING AND LUX SETTINGS (20-500 Lux)
  - 
  - PIR TIMER SET TO 10min
  - DUAL SIDED EXIT SIGN WITH 'DIRECTION OF EXIT' ARROW PICTOGRAM
  - FLOODLIGHTS MOUNTED UNDER ROOF BULLNOSE
  - GPO MOUNTED ADJACENT SECURITY PANEL ~2000mm
  - GPO MOUNTED UNDER SINK
  - GPO MOUNTED ABOVE HAND DRYER
  - GPOs TO BE MOUNTED ~1600mm AFFL FOR TOOL CHARGING SHELF
  - GPO/DATA TO BE MOUNTED 2000mm AFFL FOR CCTV MONITOR SCREEN
  - GPO TO BE MOUNTED 1600mm AFFL FOR FRIDGE
  - GPOs MOUNTED ON EXTERNAL WALL FOR MACERATOR AND RAINWATER TANK PUMP SUPPLY
  - INSTALL INTERNAL CONDUIT RUN FROM ANTENNA TO COMMS PANEL FOR CLIENT 4G/STAR LINK ANTENNA
  - GPO MOUNTED ADJACENT HAND DRYER

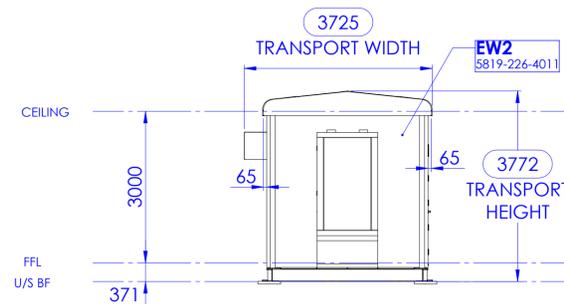
	THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.	DRAWING NUMBER: 5819-222-5000 DRAWING TITLE: CONSTRUCTION NOTE DETAIL		0 REV DATE: 22.12.25	ISSUED FOR CONSTRUCTION DESCRIPTION:	SSK DRN.	ATH CHK'D.	RAJ C.E.	CLIENT:	APPROVED DATE:	SCALE: 1:40	DRAWN: SSK 09.06.25 CHECKED: ATH 09.06.25 DESIGNED: SSK 09.06.25	ISSUED FOR CONSTRUCTION	PROJECT No. 5819 DRAWING No. 5819-341-5002	DOCUMENT NUMBER: KRWF-C-1014-001 DOC. REV. A SIZE: A1
		REFERENCE DRAWINGS		REVISIONS & APPROVALS		APPROVALS		ACAD FILE:		PROJECT No. 5819 DRAWING No. 5819-341-5002		RJE Global 115 MORPHETT ROAD MORPHETTVILLE, SA, 5043 TEL +61 8 8300 9500 FAX +61 8 8300 9501 EMAIL enquiries@rjeglobal.com		VESTAS KING ROCKS WIND FARM O&M BUILDING +Z03 LIGHTING & SMALL POWER LAYOUT	REV. 0



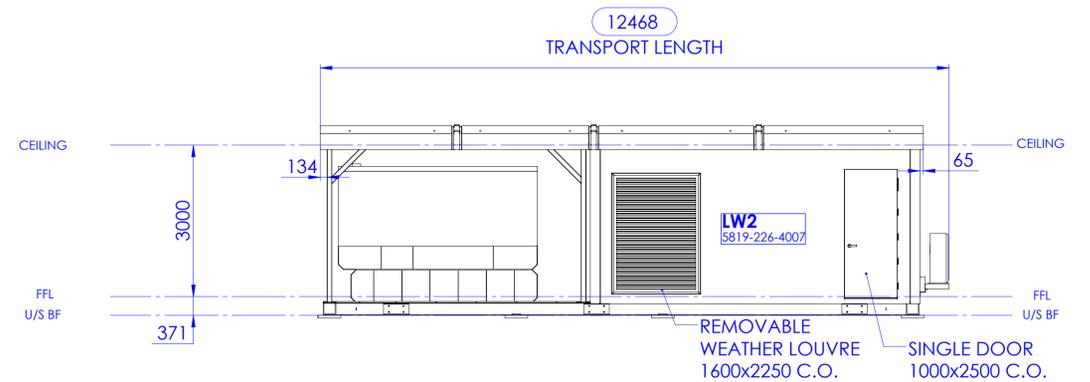
**PLAN VIEW**



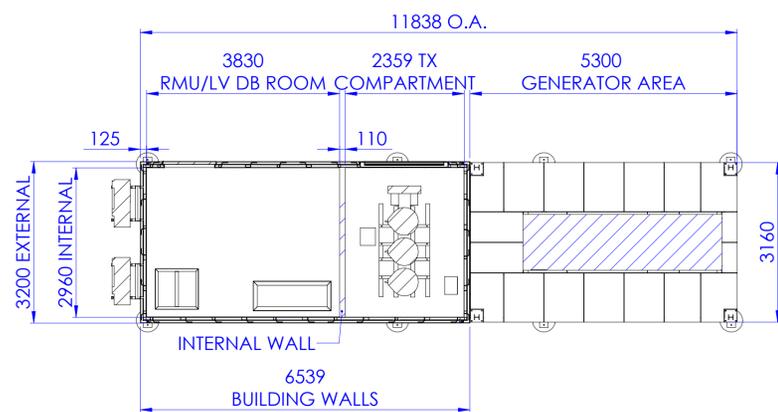
**FRONT ELEVATION**



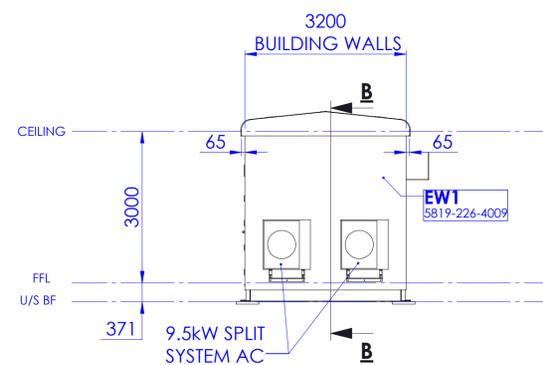
**RIGHT ELEVATION**



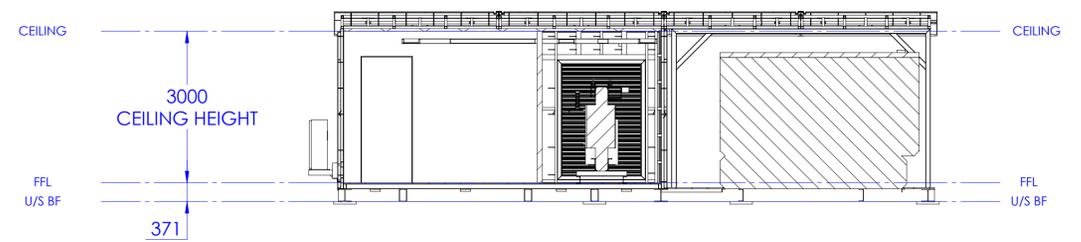
**REAR ELEVATION**



**SECTION A-A**



**LEFT ELEVATION**



**SECTION B-B**



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY LTD. IT IS SUBJECT TO RETURN UPON DEMAND AND MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN AND INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL Pty. Ltd.

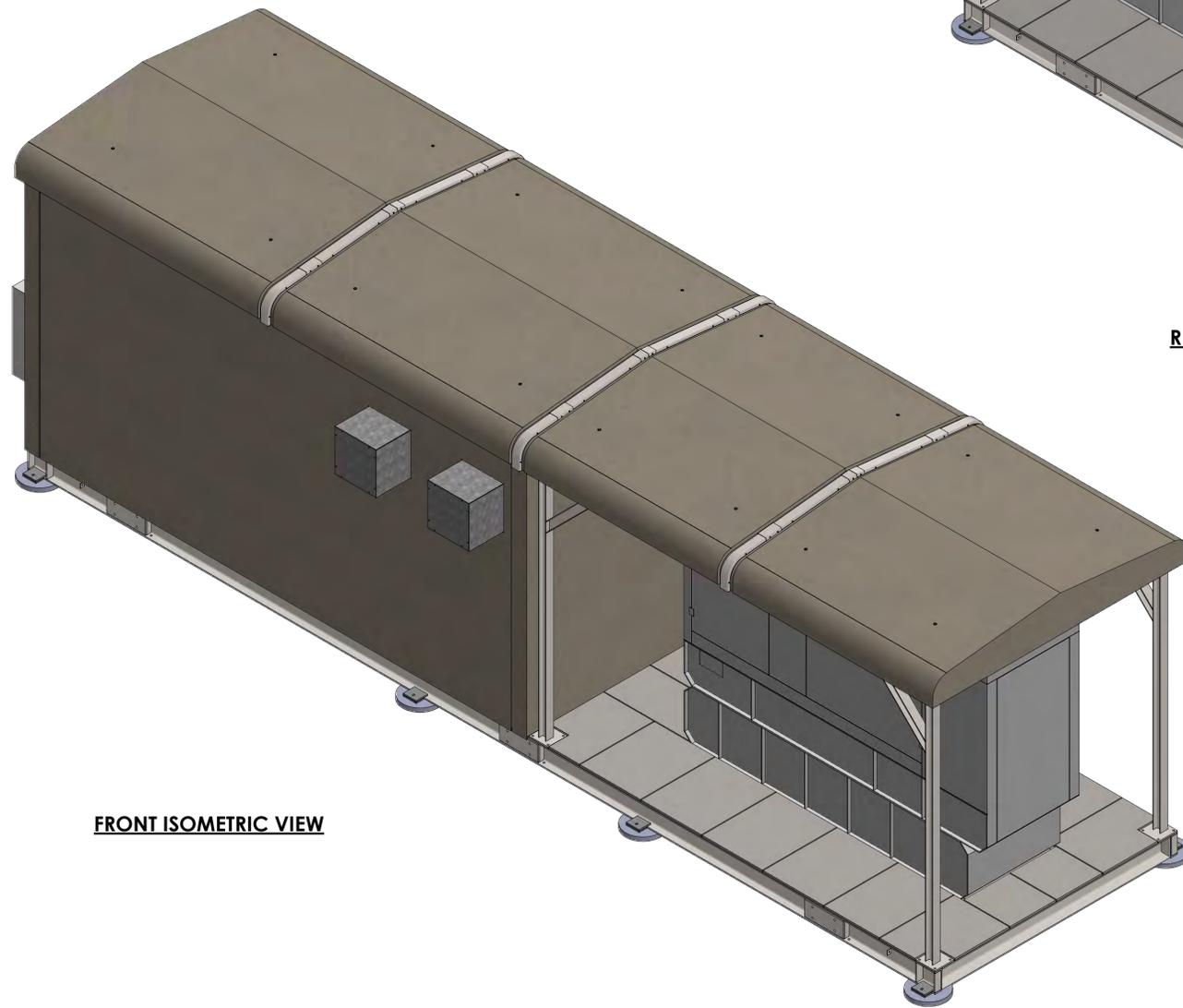
DRG NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	DRN	CHK'D	C.E.	CLIENT
	REFERENCE DRAWINGS							
		A	23.01.26	ISSUED FOR CONSTRUCTION	KW	SJW		

SCALE 1:70		
DRAWN	KW	24.02.25
CHECKED	SJW	24.02.25
DESIGNED		
RJE C.E.		
CLIENT C.E.		
CLIENT P.E.		
CLIENT M.E.		
APPROVED	DATE	

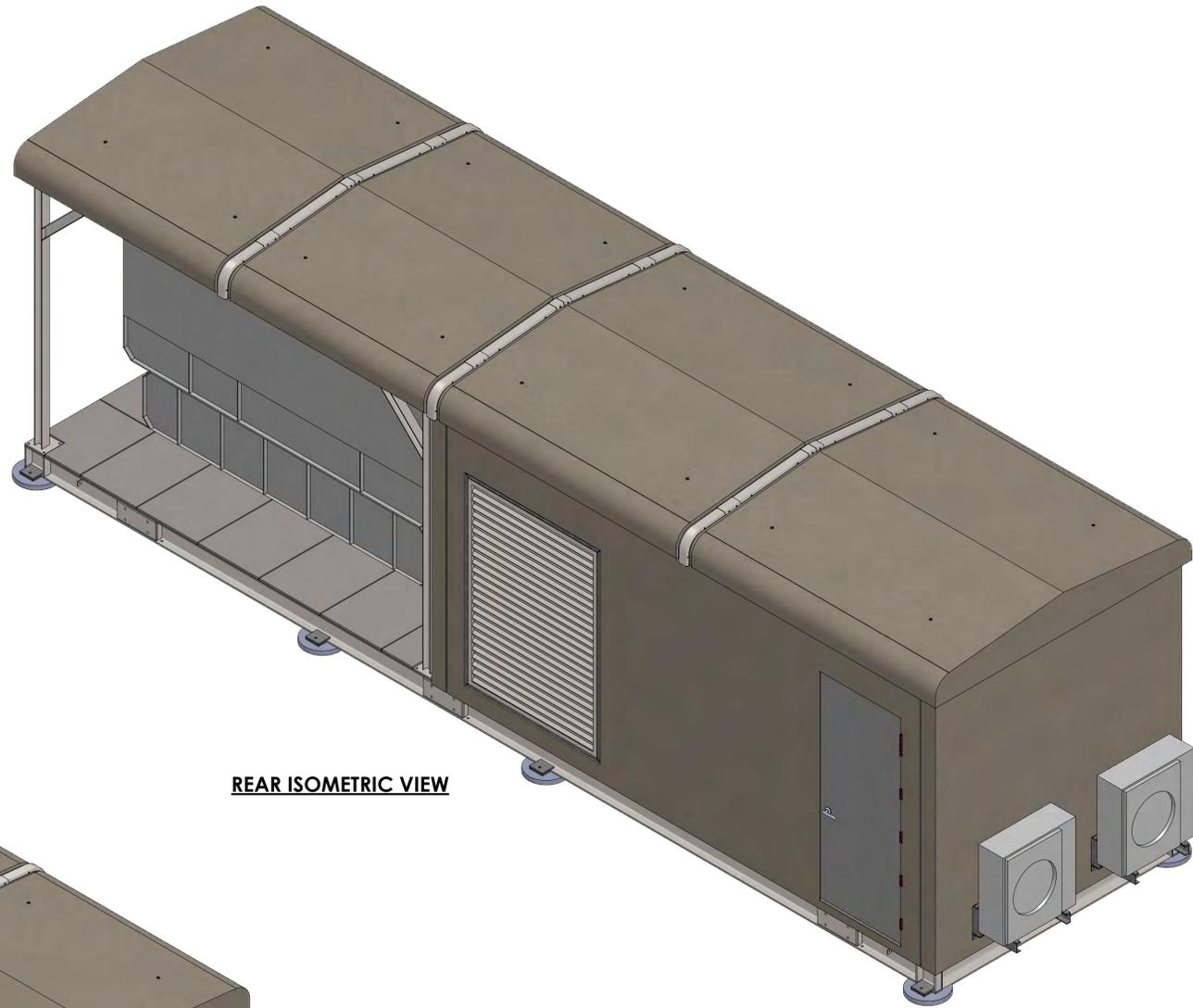
**ISSUED FOR CONSTRUCTION**

115 MORPHETT ROAD  
MORPHETTVILLE, SA  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com.au

DOCUMENT NO. KRFW-E-1048-001	DOC. REV. A
SIZE A1	
<b>VESTAS</b> KING ROCKS WIND FARM AUXILIARY POWER UNIT 'APU' +Z02 BUILDING OVERVIEW LAYOUT DRAWING	
PROJECT No. 5819	DRAWING No. 5819-222-4001
REV. 0	



**FRONT ISOMETRIC VIEW**



**REAR ISOMETRIC VIEW**



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY LTD  
 IT IS SUBJECT TO RETURN UPON DEMAND AND MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN AND INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL Pty. Ltd.

DRG NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	KW DRN	SJW CHK'D	C.E.	CLIENT
	REFERENCE DRAWINGS							
		A	23.01.26	ISSUED FOR CONSTRUCTION	KW	SJW		

SCALE 1:30		
DRAWN	KW	24.02.25
CHECKED	SJW	24.02.25
DESIGNED		
RJE C.E.		
CLIENT C.E.		
CLIENT P.E.		
CLIENT M.E.		
	APPROVED DATE	

**ISSUED FOR CONSTRUCTION**

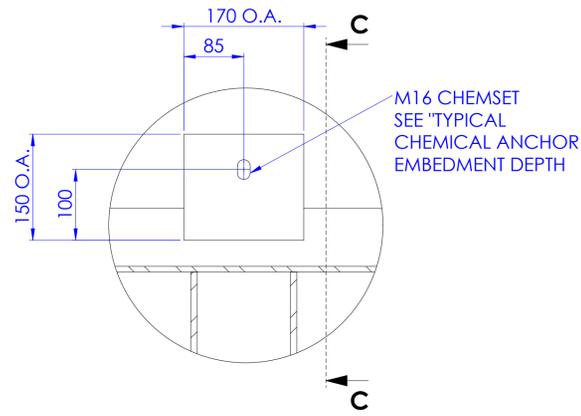


115 MORPHETT ROAD  
 MORPHETTVILLE, SA  
 TEL +61 8 8300 9500  
 FAX +61 8 8300 9501  
 EMAIL enquiries@rjeglobal.com.au

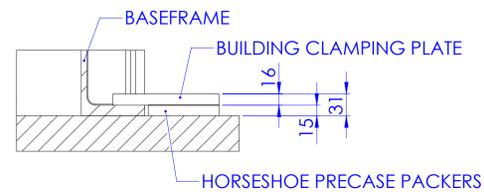
ACAD FILE

DOCUMENT NO. KRFW-E-1049-001	DOC. REV. A
VESTAS	SIZE A1
KING ROCKS WIND FARM AUXILIARY POWER UNIT 'APU' +Z02 ISOMETRIC VIEW LAYOUT DRAWING	
PROJECT No. 5819	DRAWING No. 5819-222-4002
	REV. 0

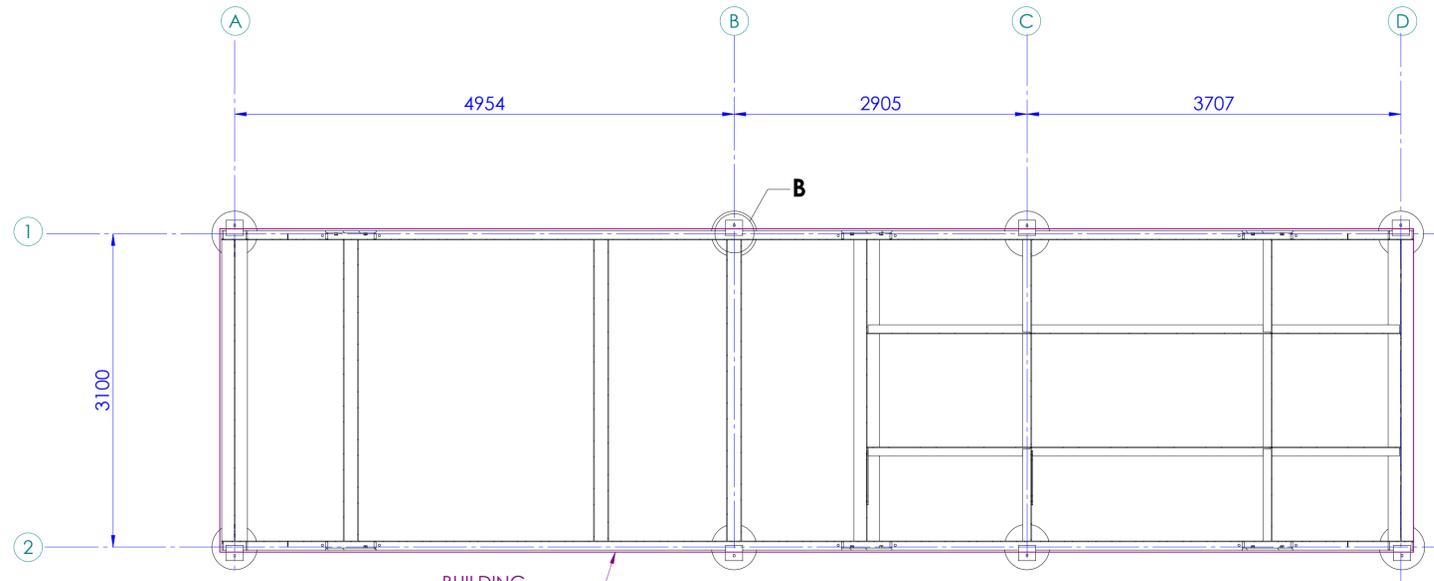
CHEMANCHOR : M16 HILTI HIT-HY200 WITH HIT-V MORTAR INJECTION SYSTEM.



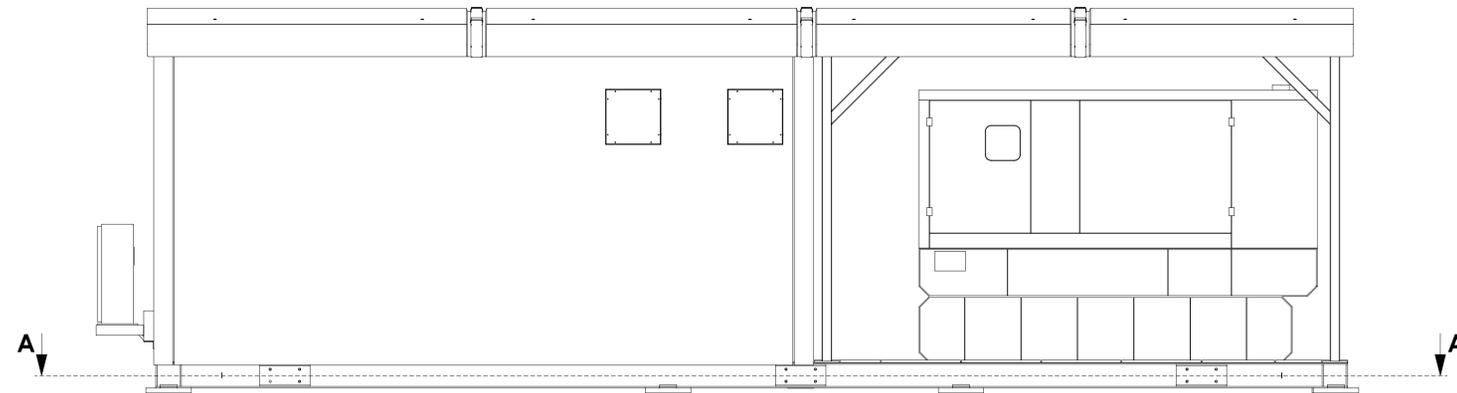
**DETAIL B**  
SCALE 1 : 5  
FOOTING DETAIL CONNECTION (16mm THK PLATE)  
TYP IN 8 POS



**SECTION C-C**  
SCALE 1 : 5



**SECTION A-A**



**FRONT VIEW**  
SCALE 1:100

DOCUMENT NO. KRFW-E-1050-001	DOC. REV. A
SIZE A1	
<b>VESTAS</b> KING ROCKS WIND FARM AUXILIARY POWER UNIT 'APU' +Z02 FOOTING LAYOUT LAYOUT DRAWING	
PROJECT No. 5819	DRAWING No. 5819-222-4003
REV. 0	



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY LTD  
IT IS SUBJECT TO RETURN UPON DEMAND AND MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN AND INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL Pty. Ltd.

DRG NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	DRN	CHK'D	C.E.	CLIENT	APPROVED DATE
		A	23.01.25	ISSUED FOR CONSTRUCTION	KW	SJW			
REVISIONS AND APPROVALS									

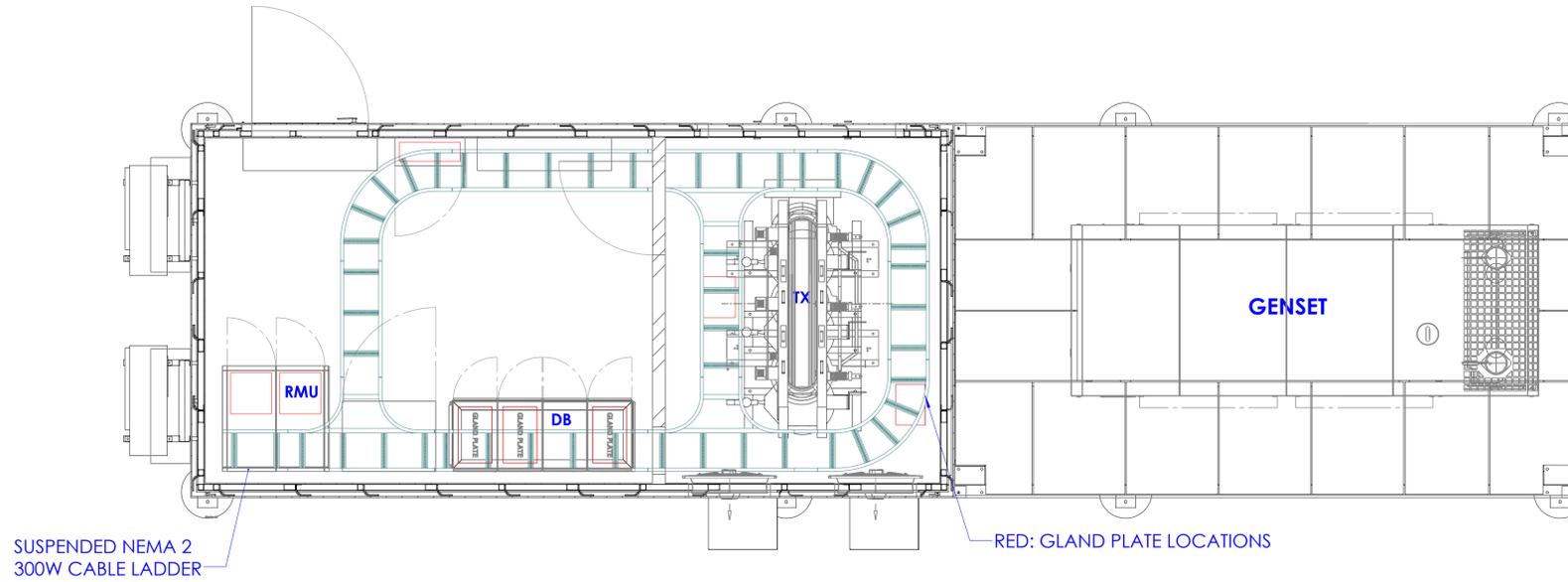
SCALE 1:35	
DRAWN	KW 24.02.25
CHECKED	SJW 24.02.25
DESIGNED	
RJE C.E.	
CLIENT C.E.	
CLIENT P.E.	
CLIENT M.E.	
APPROVALS	

**ISSUED FOR CONSTRUCTION**

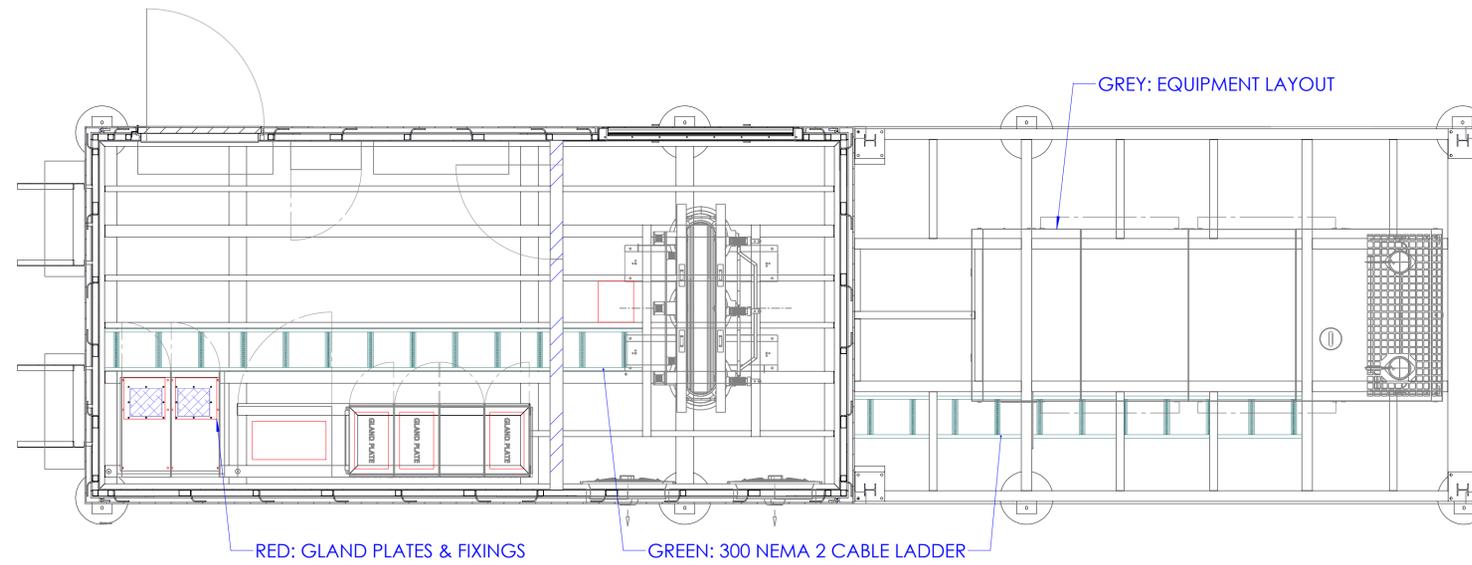
**RJE Global**  
A Lighthouse Industries Company

115 MORPHETT ROAD  
MORPHETTVILLE, SA  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com.au

ACAD FILE



**PLAN VIEW**  
OVERHEAD CABLE LADDER



**PLAN VIEW**  
UNDERFLOOR CABLE LADDER  
CFC HIDDEN FOR CLARITY



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY LTD  
IT IS SUBJECT TO RETURN UPON DEMAND AND MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN AND INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL Pty. Ltd.

DRG NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	DRN	CHK'D	C.E.	CLIENT	APPROVED	DATE
	REFERENCE DRAWINGS									
	REVISIONS AND APPROVALS	A	23.01.26	ISSUED FOR CONSTRUCTION	KW	SJW				

SCALE 1:30		
DRAWN	KW	24.02.25
CHECKED	SJW	24.02.25
DESIGNED		
RJE C.E.		
CLIENT C.E.		
CLIENT P.E.		
CLIENT M.E.		
APPROVED		
DATE		

**ISSUED FOR CONSTRUCTION**

115 MORPHETT ROAD  
MORPHETTVILLE, SA  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com.au

ACAD FILE

DOCUMENT NO. KRFW-E-1051-001	DOC. REV. A
SIZE A1	
<b>VESTAS</b> KING ROCKS WIND FARM AUXILIARY POWER UNIT 'APU' +Z02 EQUIPMENT, CABLE LADDER & BASEFRAME PENETRATION LAYOUT DRAWING	
PROJECT No. 5819	DRAWING No. 5819-222-4004
REV. 0	

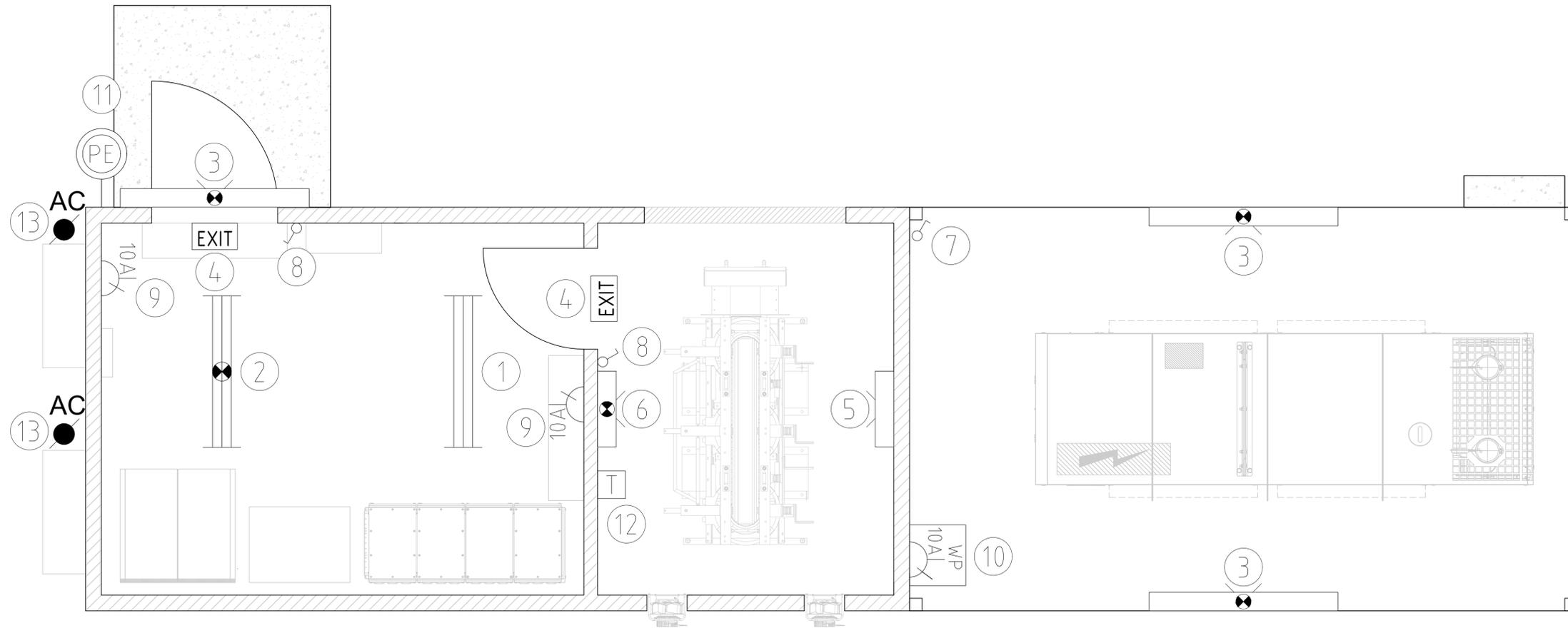


EQUIPMENT LIST

ITEM	DESCRIPTION	QTY	MANUFACTURER	PART No.
1	1200mm LED BATTEN FITTING	1	CLEVERTRONICS	ARGO-1200
2	1200mm LED BATTEN FITTING (EMERG.)	1	CLEVERTRONICS	ARGO-1200-LP
3	1500mm LED BATTEN FITTING (EMERG.)	3	CLEVERTRONICS	ARGO-1500-SEN-LP
4	LED EXIT LIGHT	2	CLEVERTRONICS	CLEVERFIT
5	600mm LED BATTEN FITTING	1	CLEVERTRONICS	ARGO-600
6	600mm LED BATTEN FITTING (EMERG.)	1	CLEVERTRONICS	ARGO-600-LP
7	LIGHT SWITCH - W/PROOF	1	CLIPSAL	WS226-RG
8	LIGHT SWITCH	2	CLIPSAL	2031VA
9	10A DOUBLE GPO	2	CLIPSAL	2025
10	2 GANG 10A GPO - WEATHERPROOF	1	CLIPSAL	WSC227/2
11	PE CELL	1	CLIPSAL	56V55R/3
12	TEMPERATURE TRANSMITTER	1	KIMO	TM110-PNB
13	ISOLATORS	2	KATKO	KEM340YRM2

CONSTRUCTION NOTES:

1. LIGHT SWITCHES MOUNTED AT 1300mm AFFL
2. GPO'S MOUNTED AT 300mm AFFL
3. PE CELL MOUNTED AT <1800mm FROM BASE FRAME FOR ACCESSIBILITY
4. EXTERNAL LIGHTS IN GENERATOR AREA TO BE MOUNTED UNDER CANOPY
5. EXTERNAL LIGHTING TO HAVE MOTION SENSORS INCORPORATED
6. TEMP TRANSMITTER MOUNTED ON WALL <300mm FROM CEILING
7. FAN CONTROL MODULE IN LV DB
8. INTERNAL LIGHTING BATTENS SET TO OUTPUT #2 HIGH
9. EMERGENCY LIGHTING TO HAVE IDENTIFIER TRAFFOLYTE LABEL ADJACENT FITTING, ALSO LABEL ADJACENT ISOLATING/RCBO'S IN DISTRIBUTION BOARD RELATED TO EM LIGHTING CIRCUITS



	THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.	DRAWING NUMBER: 5819-222-4000 DRAWING TITLE: CONSTRUCTION NOTE DETAIL	REV: 0 DATE: 22.01.26 DESCRIPTION: ISSUED FOR CONSTRUCTION	SSK: ATH DRN: CHK'D: C.E.: CLIENT:	SCALE: 1:20 DRAWN: SSK 09.06.25 CHECKED: ATH 09.06.25 DESIGNED: SSK 09.06.25	ISSUED FOR CONSTRUCTION	DOCUMENT NUMBER: KRWF-E-1053-001 DOC. REV.: A SIZE: A1
		REFERENCE DRAWINGS:	REVISIONS & APPROVALS:	APPROVALS:	PROJECT No.: 5819 DRAWING No.: 5819-341-4002 REV.: 0		


 115 MORPHETT ROAD MORPHETTVILLE, SA, 5043  
 TEL +61 8 8300 9500 FAX +61 8 8300 9501 EMAIL enquiries@rjeglobal.com

ACAD FILE:

**BILL OF MATERIALS**

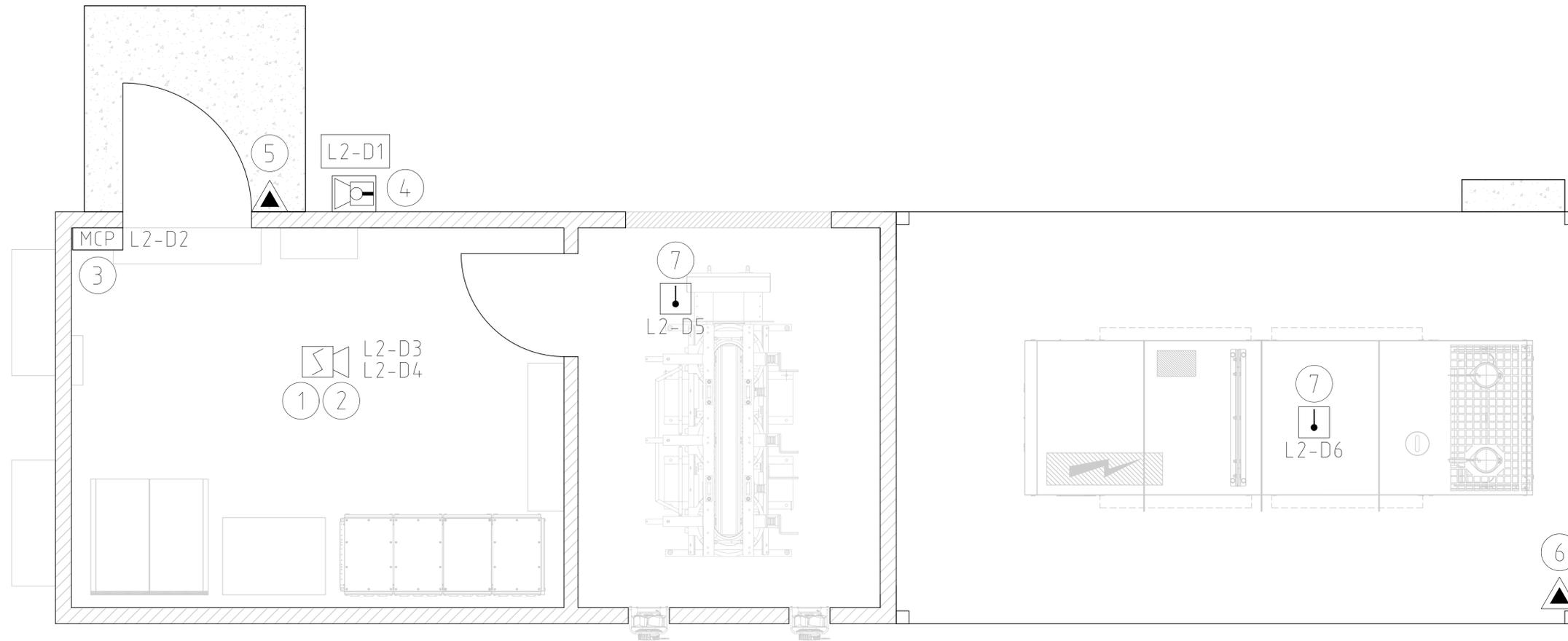
ITEM	ITEM DESCRIPTION	MANUFACTURE	PART NUMBER	QTY
1	PHOTO OPTICAL SMOKE DETECTOR	AMPAC	4106-6003	1
2	INDOOR STROBE SOUNDER	AMPAC	4107-6003	1
3	MANUAL CALL POINT	AMPAC	4105-2005	1
4	EXTERNAL STROBE/SOUNDER	AMPAC	4107-6003	1
5	5KG CO2 TYPE FIRE EXTINGUISHER	SAFETY SUPPLIES	FP50C02A + BAG	1
6	9KG ABE TYPE FIRE EXTINGUISHER	SAFETY SUPPLIES	EXT.MF9ABEM + BAG.MFUVL	1
7	HEAT SENSOR DETECTOR	AMPAC	4106-2003	2

**CONSTRUCTION NOTES:**

- MCP MOUNTED BETWEEN 750-1200mm AFFL
- SMOKE DETECTORS TO HAVE 300mm CLEAR RADIUS
- FED FROM FIRE PANEL IN SWITCHROOM 1 - LOOP 2
- LOOP TERMINATION FROM 33kV SWITCHROOM TO BE IN APU PROTECTION PANEL

**DEVICE LIST**

SENSOR #	ITEM DESCRIPTION	AREA
L2-D1	EXTERNAL SOUNDER	APU EXTERNAL
L2-D2	MCP	LV ROOM
L2-D3	SMOKE DETECTOR - PO	LV ROOM
L2-D4	INTERNAL SOUNDER	LV ROOM
L2-D5	HEAT DETECTOR	HV ROOM
L2-D6	HEAT DETECTOR	GENSET AREA



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	SSK	ATH	RAJ	DRN.	CHK'D	C.E.	CLIENT
	REFERENCE DRAWINGS										
	REVISIONS & APPROVALS										

SCALE	1:20
DRAWN	SSK 09.06.25
CHECKED	ATH 09.06.25
DESIGNED	SSK 09.06.25
RJE C.E.	
CLIENT C.E.	
CLIENT P.E.	
CLIENT M.E.	
APPROVED DATE	

**ISSUED FOR CONSTRUCTION**

**RJE Global**

115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

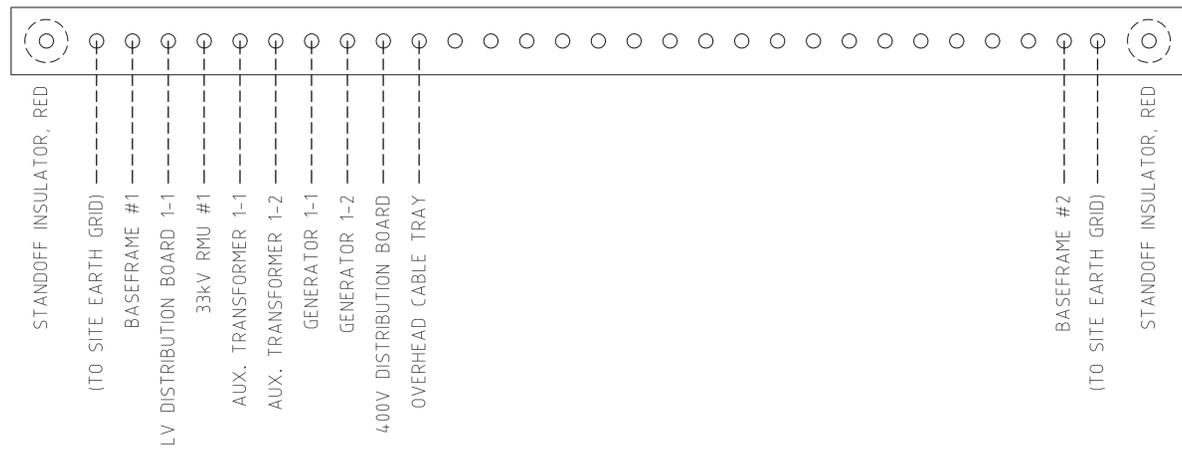
ACAD FILE:

DOCUMENT NUMBER	KRWF-E-1054-001	DOC. REV.	A
SIZE	A1		
PROJECT No.	5819	DRAWING No.	5819-341-4003
REV.	0		

**VESTAS**

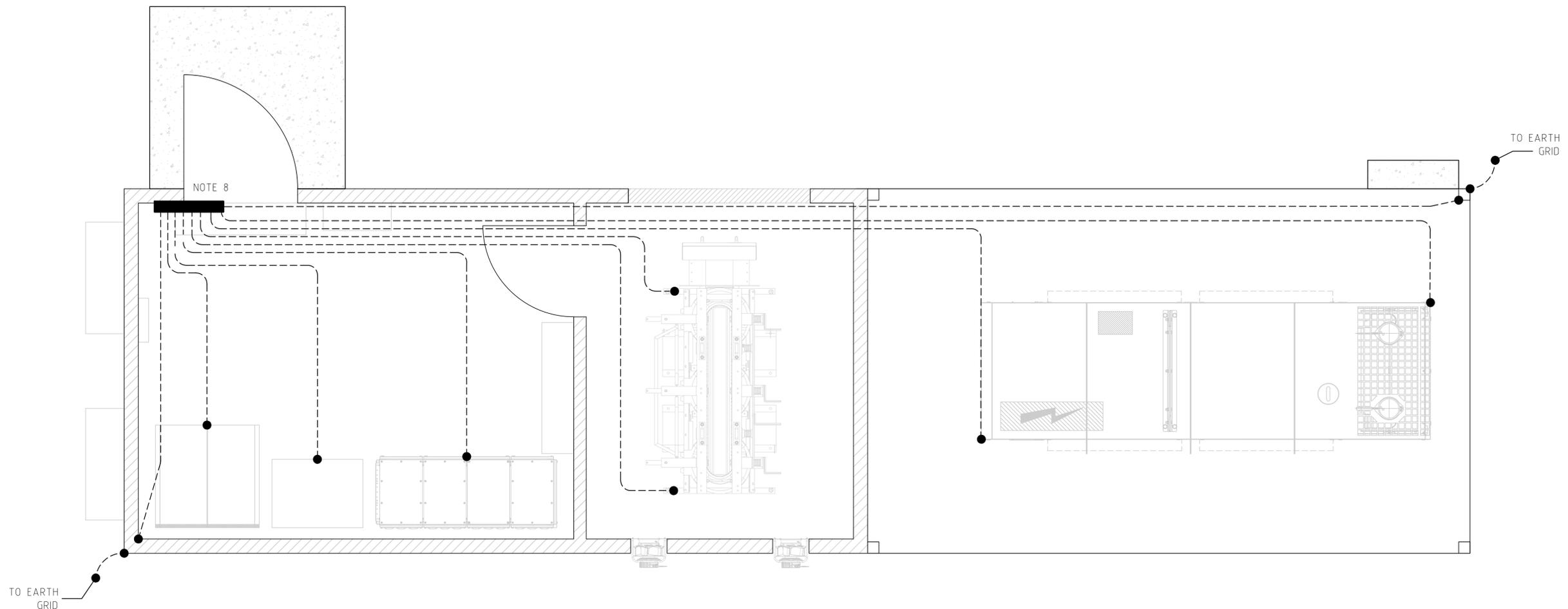
KING ROCKS WIND FARM  
AUXILIARY POWER UNIT 'APU' +Z02  
FIRE DETECTION  
LAYOUT

DETAIL A: MAIN EARTH BAR (MEB)  
SEE NOTES



CONSTRUCTION NOTES:

1. EARTH BAR TO BE MINIMUM 1000mm LONG.
2. ALL EARTH CABLES SHALL BE SIZED AS PER CABLE SCHEDULE 5819-302-4001.
3. EARTH BAR TO BE 50x6mm THK TINNED COPPER BAR.
4. ALL EARTH BAR HOLES TO BE 11mm DIAMETER AT 30mm CENTERS TO SUIT M10 LUG.
5. 'DASHED' CONNECTION LINES DO NOT INDICATE PATH OF EARTH CABLE, INDICATIVE ONLY.
6. EARTHING OF BASE FRAME TO MEB VIA 2 OF 50x50mm EXTERNAL WELDED TABS ON BASE FRAME.
7. EARTH BAR TO HAVE MIN. 25% SPARE CONNECTION CAPACITY.



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	SSK	ATH	RAJ	DRN.	CHK'D.	C.E.	CLIENT
		0	22.01.26	ISSUED FOR CONSTRUCTION							
REFERENCE DRAWINGS				REVISIONS & APPROVALS				APPROVALS			

SCALE	1:20
DRAWN	SSK 09.06.25
CHECKED	ATH 09.06.25
DESIGNED	SSK 09.06.25
RJE C.E.	
CLIENT C.E.	
CLIENT P.E.	
CLIENT M.E.	
APPROVED DATE	

ISSUED FOR CONSTRUCTION

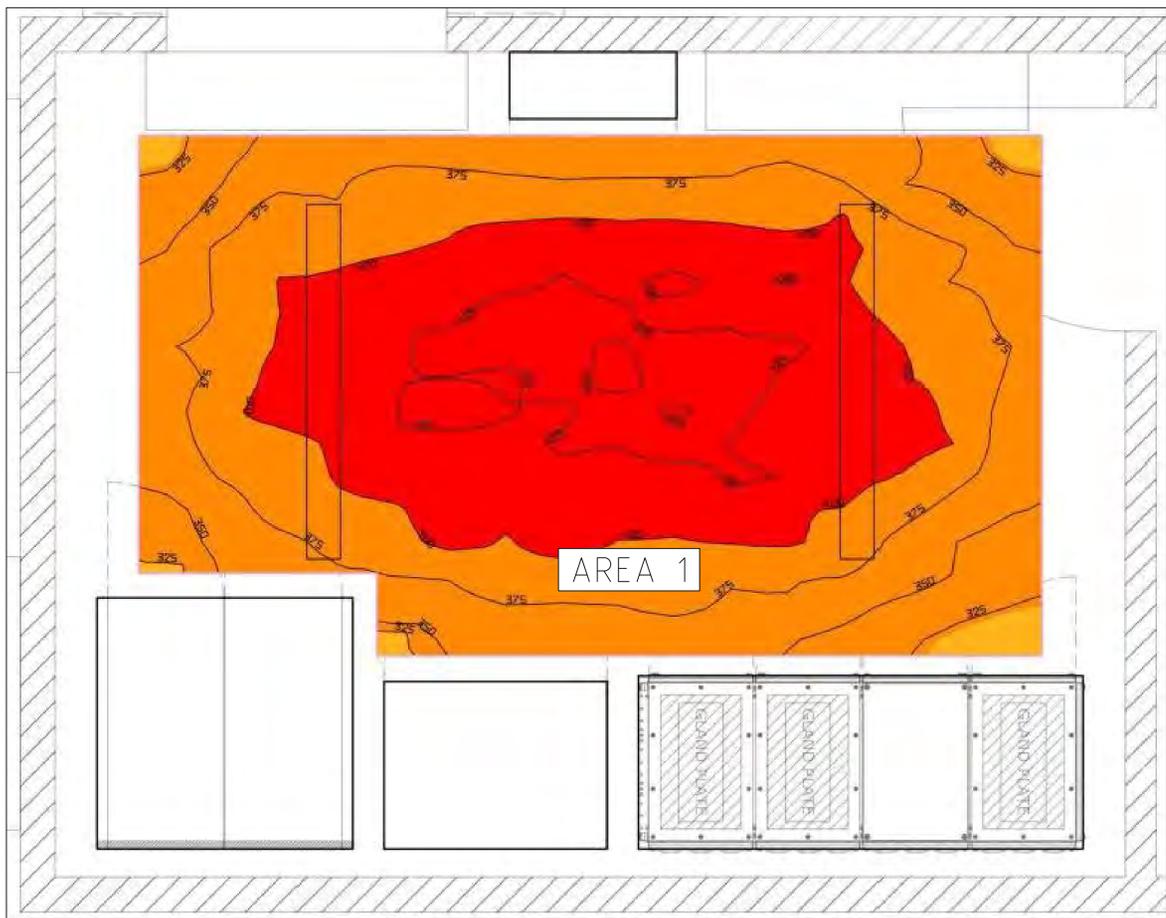
115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

ACAD FILE:

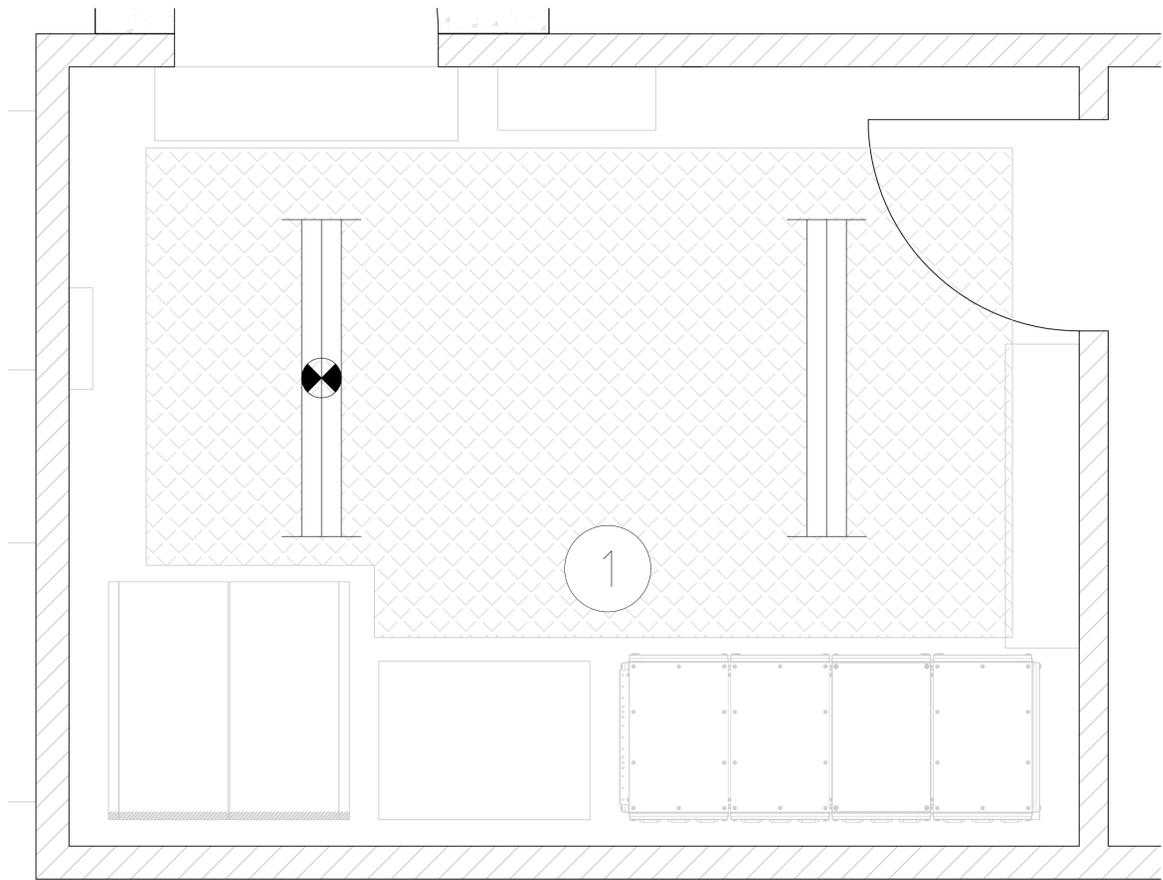
DOCUMENT NUMBER	KRWF-E-1055-001	DOC. REV.	A
SIZE	A1		
<p><b>VESTAS</b></p> <p>KING ROCKS WIND FARM AUXILIARY POWER UNIT 'APU' +Z02 EARTHING LAYOUT</p>			
PROJECT No.	5819	DRAWING No.	5819-341-4005
REV.	0		

SUMMARY OF LIGHTING MODELLING				
TAG	AREA	AVE LUX (CALCULATED)	CLASSIFICATION (AS PER AS/NZS 1680-2)	SUGGESTED AVERAGE (AS PER CLASSIFICATION COLUMN)
AREA 1	SHARED HV/LV SPACE	388	10(a) CONTROL ROOM INTERMITTENTLY MONITORED (AS1680 2.1 TD1)	240

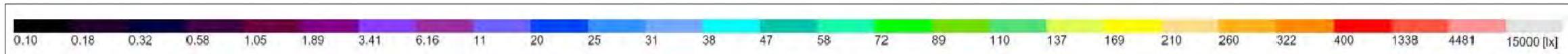
- NOTES:
1. ALL CALCULATIONS PERFORMED IN DIALUX EVO.
  2. ALL CALCULATIONS CALCULATED AT PERMISSIBLE WORKING HEIGHT OF 700mm AFFL.
  3. CEILING HEIGHT OF 3000mm.
  4. MAINTENANCE FACTOR ASSUMED TO BE 0.8



AUXILIARY POWER UNIT  
CALCULATION RESULTS  
PLAN VIEW



AUXILIARY POWER UNIT  
CALCULATION ZONE  
PLAN VIEW



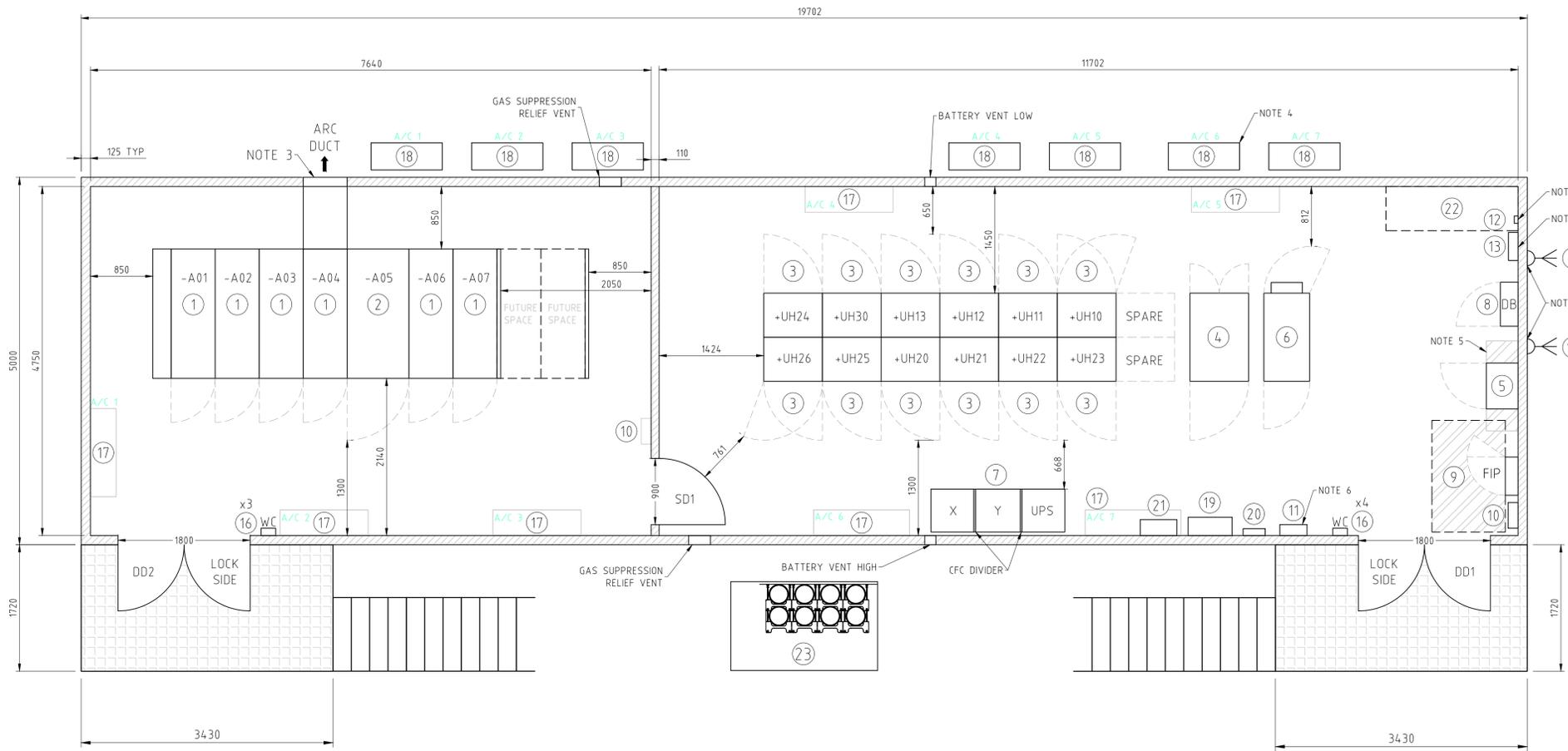
FALSE COLOUR LEGEND - AUXILIARY POWER UNIT

	THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.	DRAWING NUMBER		DRAWING TITLE		REV. DATE		DESCRIPTION		SSK	ATH	RAJ	APPROVED DATE		ACAD FILE:	DOCUMENT NUMBER	DOC. REV.	SIZE						
		REFERENCE DRAWINGS		REVISIONS & APPROVALS		APPROVALS		PROJECT No.		DRAWING No.		REV.		5819		5819-341-4006		0						
										SCALENTS DRAWN SSK 09.06.25 CHECKED ATH 09.06.25 DESIGNED SSK 09.06.25 RJE C.E. CLIENT C.E. CLIENT P.E. CLIENT M.E.			ISSUED FOR CONSTRUCTION		VESTAS KING ROCKS WIND FARM AUXILIARY POWER UNIT 'APU' +Z02 LIGHTING CALCULATION LAYOUT		115 MORPHETT ROAD MORPHETTVILLE, SA, 5043 TEL +61 8 8300 9500 FAX +61 8 8300 9501 EMAIL enquiries@rjeglobal.com		PROJECT No. 5819		DRAWING No. 5819-341-4006		REV. 0	

EQUIPMENT LIST					
ITEM	DESCRIPTION	QTY	DIMENSIONS (WxDxH)	WEIGHT PER UNIT (kgs)	FREE ISSUED
1	33kV SWITCHGEAR (TYPE ZX2.0) - 600 WIDE TIER	6(+2)	600x1760x2600	1400	NO
2	33kV SWITCHGEAR (TYPE ZX2.0) - 840 WIDE TIER	1	840x1760x2600	2000	NO
3	CONTROL AND PROTECTION PANELS	12(+2)	800x600x2200	200	NO
4	CLIENT COMMUNICATION RACK	1	800x1200x2238	350	YES
5	VESTAS PPC PANEL	1	624x432x2040	200	YES
6	VESTA VOB PANEL	1	624x1345x2040	560	YES
7	BATTERY RACKS (TRIPLE STACK) [X+Y+UPS]	1	1824x582x1580	1200	NO
8	LIGHT AND SMALL POWER DB	1	600x240x864	50	NO
9	FIRE INDICATION PANEL	1	518.5x173x845	100	NO
10	VESDA	2	350x135x225	4	NO
11	SECURITY PANEL	1	385x90x260	6	NO
12	WESTERN POWER VOIP PHONE	1	-	1	YES
13	WESTERN POWER VOIP MEDIA CONVERTER	1	380x130x260	5	YES

EQUIPMENT LIST					
ITEM	DESCRIPTION	QTY	DIMENSIONS (WxDxH)	WEIGHT PER UNIT (kgs)	FREE ISSUED
14	GPS ANTENNA	1	-	-	NO
15	VESTAS ANTENNA	1	-	-	YES
16	A/C WALL CONTROLS	7	-	1	NO
17	9.5kW SPLIT SYSTEM A/C - INDOOR UNIT	7	1150x280x340	19	NO
18	9.5kW SPLIT SYSTEM A/C - OUTDOOR UNIT	7	970x370x914	74	NO
19	HV/LV RESCUE KIT	1	-	5	NO
20	FIRST AID KIT	1	-	5	NO
21	EMERGENCY EYE WASH STATION	1	250x90x200	5	NO
22	WORK SPACE	-	1800x600xH	-	NO
23	GAS SUPPRESSION ENCLOSURE	1	2000x1210x2559	2457	NO
ESTIMATED TOTAL EQUIPMENT WEIGHT				17543	

- NOTES:
1. CEILING HEIGHT 3350mm
  2. COLUMN HEIGHT 1200mm
  3. ARC VENTILATION TO ATMOSPHERE
  4. A/C OUTDOOR UNITS GROUND MOUNTED, INSTALLED ON SITE
  5. VESTAS PPC PANEL TO HAVE 300mm CLEARANCE EITHER SIDE
  6. SECURITY PANEL TO BE INSTALLED @ 2000mm AFFL
  7. A/C WALL CONTROLLERS TO BE MOUNTED ~1600mm AFFL
  8. ANTENNAS TO BE MOUNTED ON GOOSENECK BRACKET, UNDER BULLNOSE, SPACED MIN. 1 METRE APART
  9. VOIP PHONE INSTALLED BY OTHERS, MOUNTED ON WALL AT CENTRE HEIGHT 1500mm AFFL
  10. MEDIA CONVERTER INSTALLED BY OTHERS, MOUNTED ON WALL AT CENTRE HEIGHT 1500mm AFFL



33kV SWITCHGEAR	
TIER	DESCRIPTION
A01	BUS EARTH SWITCH
A02	CB111
A03	CB112
A04	CB113
A05	CB110, INCOMER
A06	CB114
A07	CB115, BUS VT

PANEL IDENTIFIER	
+UH10	132kV BUS PROTECTION PANEL
+UH11	132/33kV TRANSFORMER PROTECTION PANEL
+UH12	STATCOM PROTECTION PANEL
+UH13	HARMONIC FILTER PROTECTION PANEL
+UH20	33kV INCOMER PROTECTION PANEL
+UH21	33kV BUS X PROTECTION PANEL
+UH22	33kV BUS Y PROTECTION PANEL
+UH23	33kV FEEDER PROTECTION PANEL
+UH24	FIBRE & COMMS PANEL
+UH25	DC X & Y PANEL
+UH26	UPS PANEL
+UH30	RTU PANEL



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	SSK	ATH	RAJ	DRN	CHK'D	C.E.	CLIENT
5819-222-2000	CONSTRUCTION NOTE DETAIL	A	09.06.25	ISSUED FOR CONSTRUCTION							
REFERENCE DRAWINGS											
REVISIONS & APPROVALS											
APPROVALS											

SCALE	1:40
DRAWN	SSK 09.06.25
CHECKED	ATH 09.06.25
DESIGNED	SSK 09.06.25
RJE C.E.	
CLIENT C.E.	
CLIENT P.E.	
CLIENT M.E.	
APPROVED DATE	

ISSUED FOR CONSTRUCTION

115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

ACAD FILE:

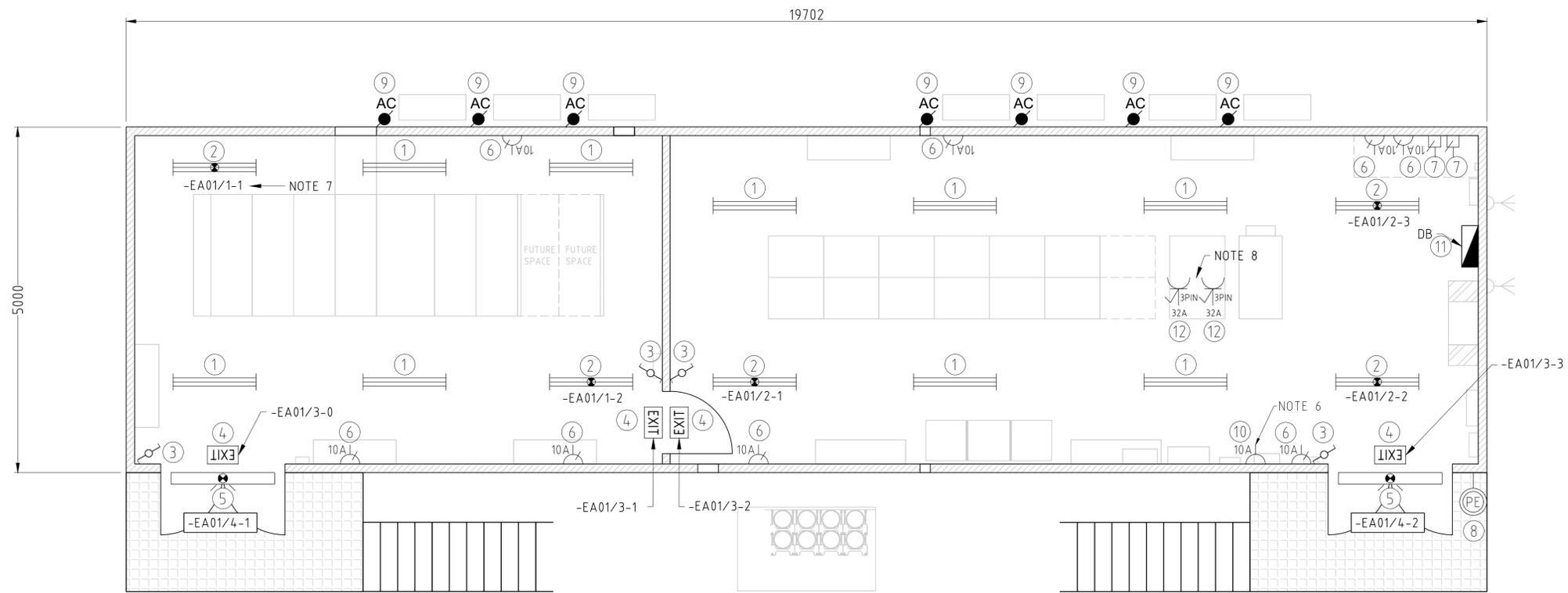
DOCUMENT NUMBER	KRWF-E-1181-001	DOC. REV.	A
SIZE	A1		
VESTAS			
KING ROCKS WIND FARM			
33kV SWITCHROOM +Z01			
EQUIPMENT ARRANGEMENT LAYOUT			
PROJECT No.	5819	DRAWING No.	5819-341-2001
REV.			0

EQUIPMENT LIST

ITEM	DESCRIPTION	QTY	MANUFACTURE	PART No.
1	38W LED FITTING	9	CLEVERTRONICS	ARGO-1200
2	38W LED FITTING (EMERGENCY)	5	CLEVERTRONICS	ARGO-1200-LP
3	TWO WAY LIGHT SWITCH	4	CLIPSAL	2031VA
4	LED EXIT LIGHT	4	CLEVERTRONICS	CLEVERFIT
5	58W LED FITTING (WEATHERPROOF EMERGENCY)	2	CLEVERTRONICS	ARGO-1500-LP
6	10A DOUBLE GPO	8	CLIPSAL	2025-WE
7	RJ45 TWIN DOUBLE OUTLET CLIPSAL	2	CLIPSAL	2032VHJ+30RJ45SMA6CWE
8	PE CELL	1	CLIPSAL	56SSR/3
9	AIR CON ISOLATORS	7	KATKO	KEM340YRM2
10	10A SINGLE GPO	1	CLIPSAL	2015-WE
11	LIGHT & POWER DISTRIBUTION BAORD	1	NHP	CONCEPT PREMIER
12	32A 3 PIN SWITCHED SOCKET OUTLET	2	CLIPSAL	56C332GY

NOTES:

1. PE CELL TO BE MOUNTED <1800mm FROM BASEFRAME FOR ACCESS
2. LIGHT SWITCHES MOUNTED @ 1300mm AFFL
3. GPO'S MOUNTED @ 300mm AFFL
4. A/C ISOALTORS MOUNTED @SITE ADJACENT CABLE LADDER TO OUTDOORS
5. GPO'S/DATA AT DESK TO BE 900mm AFFL (ABOVE DESK)
6. GPO TO BE ADJACENT SECURITY PANEL AT HEIGHT
7. EMERGENCY LIGHTS TO HAVE TRAFFOLYTE LABELS ADJACENT FITTING WITH CORRESPONDING NUMBERING AS PER AS 2293.1
8. COMMS RACK SOCKET OUTLET'S TO BE INSTALLED ON VERTICAL CABLE TRAY FROM CEILING TO TOP OF PANEL. ONE FEED FROM L+SP DB, OTHER FROM UPS.



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	SSK	ATH	RAJ	DRN	CHK'D	C.E.	CLIENT
5819-222-2000	CONSTRUCTION NOTE DETAIL	A	04.07.25	ISSUED FOR CONSTRUCTION							
REFERENCE DRAWINGS											
REVISIONS & APPROVALS											
APPROVALS											

SCALE	1:40
DRAWN	SSK 09.06.25
CHECKED	ATH 09.06.25
DESIGNED	SSK 09.06.25
RJE C.E.	
CLIENT C.E.	
CLIENT P.E.	
CLIENT M.E.	
APPROVED DATE	

ISSUED FOR CONSTRUCTION

115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

ACAD FILE:

DOCUMENT NUMBER	KRWF-E-1182-001	DOC. REV.	A
SIZE	A1		
PROJECT No.	5819	DRAWING No.	5819-341-2002
REV.	0		

VESTAS  
KING ROCKS WIND FARM  
33kV SWITCHROOM +Z01  
LIGHTING & SMALL POWER  
LAYOUT

EQUIPMENT LIST

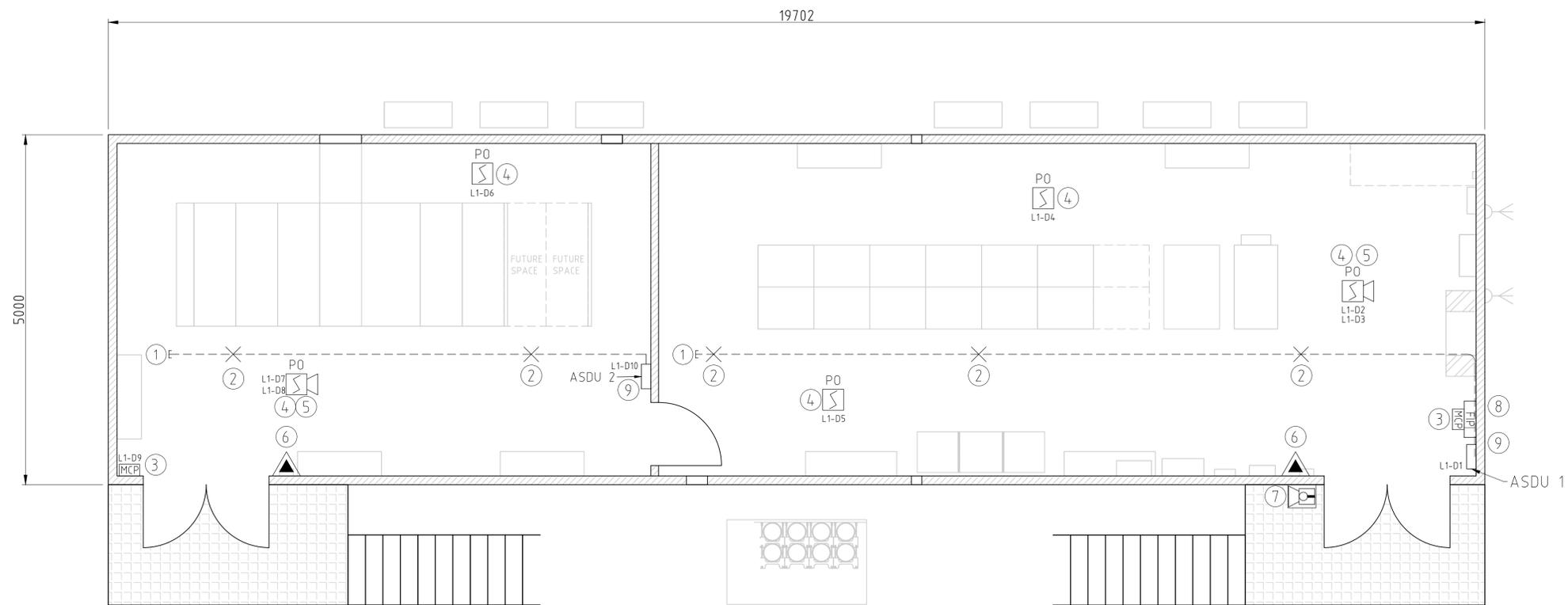
ITEM	DESCRIPTION	QTY	MANUFACTURE	PART No.
1	ASDU PIPING	AS REQ.	WAGNER	-
2	ASDU SAMPLE POINT	AS REQ.	WAGNER	-
3	MANUAL CALL POINT	2	AMPAC	4105-2005
4	PHOTO OPTICAL SMOKE DETECTOR	5	AMPAC	4106-6003
5	INDOOR STROBE SOUNDER - BASE	2	AMPAC	4107-6003
6	CO2 TYPE FIRE EXTINGUISHER	2	SAFETY SUPPLIES	EXT.FP50C02A
7	EXTERNAL STROBE/SOUNDER	1	AMPAC	4107-6003
8	FIRE INDICATION PANEL	1	AMPAC	SP8X
9	ASDU UNIT	2	WAGNER	TITANUS PRO-SENS 2

NOTES:

1. VESDA SAMPLE PIPING TO BE SURFACE MOUNT TO CEILING FOR IN ROOM SAMPLING ONLY
2. SAMPLE POINTS TO BE CONFIRMED BY CALCULATIONS FROM ASPIRATION CALCULATIONS
3. MCP MOUNTED BETWEEN 750-1200mm AFFL
4. MCP ON FIP COMES PRE WIRED IN PANEL, NOT ON LOOP. MOUNTED ON FRONT FACE
5. SMOKE DETECTORS TO HAVE 300mm CLEAR RADIUS
6. DETECTION ZONES TO BE SEPARATE BETWEEN HV/LV ROOMS

DEVICE LIST

SENSOR #	ITEM DESCRIPTION	AREA
L1-D1	ASDU	CONTROL ROOM
L1-D2	INTERNAL SOUNDER	CONTROL ROOM
L1-D3	SMOKE DETECTOR - PO	CONTROL ROOM
L1-D4	SMOKE DETECTOR - PO	CONTROL ROOM
L1-D5	SMOKE DETECTOR - PO	CONTROL ROOM
L1-D6	SMOKE DETECTOR - PO	HV SWITCHROOM
L1-D7	INTERNAL SOUNDER	HV SWITCHROOM
L1-D8	SMOKE DETECTOR - PO	HV SWITCHROOM
L1-D9	MCP - INTERNAL	HV SWITCHROOM
L1-D10	ASDU	HV SWITCHROOM



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	SSK	ATH	RAJ	DRN.	CHK'D	C.E.	CLIENT
5819-222-2000	CONSTRUCTION NOTE DETAIL	A	04.07.25	ISSUED FOR CONSTRUCTION							
	REFERENCE DRAWINGS										
	REVISIONS & APPROVALS										

SCALE	1:40
DRAWN	SSK 09.06.25
CHECKED	ATH 09.06.25
DESIGNED	SSK 09.06.25
RJE C.E.	
CLIENT C.E.	
CLIENT P.E.	
CLIENT M.E.	
APPROVED DATE	

ISSUED FOR CONSTRUCTION

**RJE Global**  
A Lighthouse Industries Company

115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

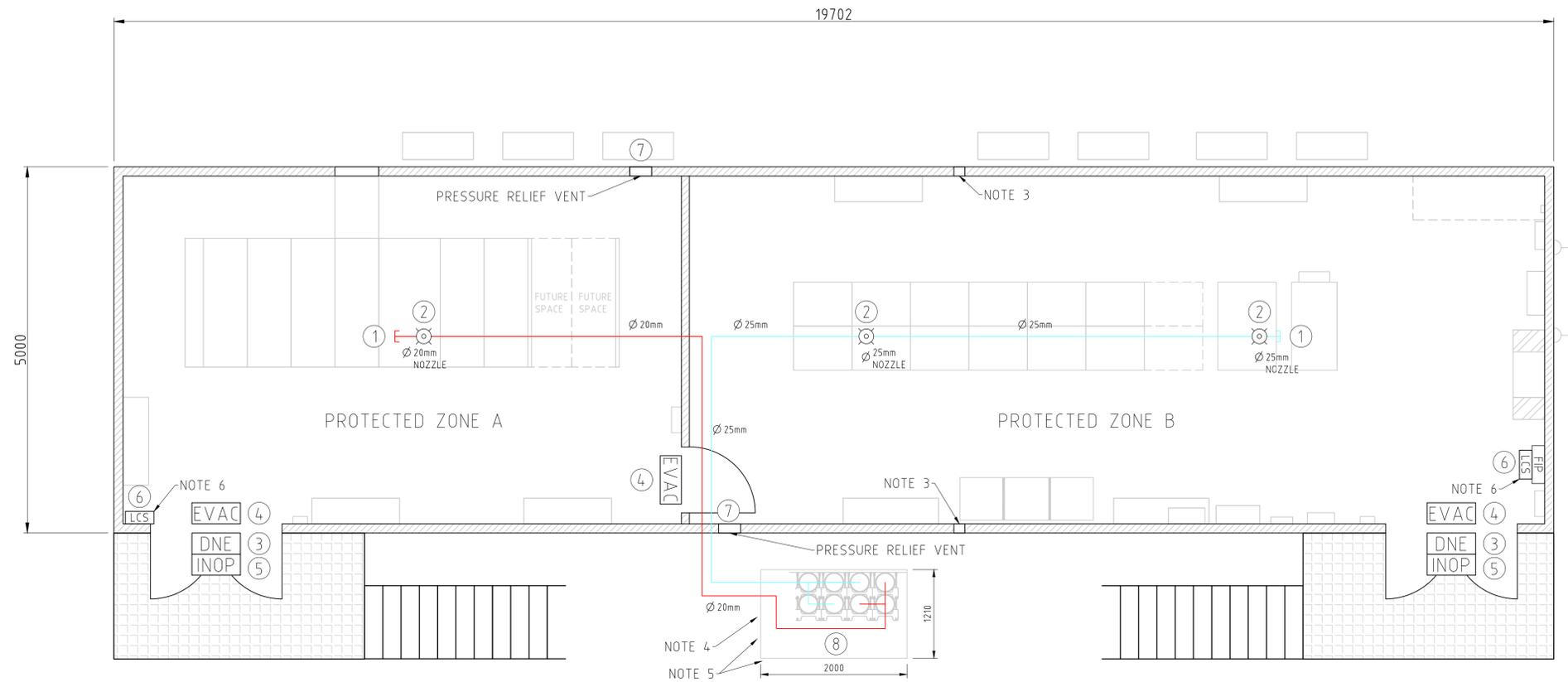
DOCUMENT NUMBER	KRWF-E-1183-001	DOC. REV.	A
SIZE	A1		
PROJECT No.	5819	DRAWING No.	5819-341-2003
REV.	0		

EQUIPMENT LIST

ITEM	DESCRIPTION	QTY	MANUFACTURE	PART No.
1	GAS SUPPRESSION PIPING	AS REQ.	-	-
2	GAS SUPPRESSION NOZZLES	3	-	-
3	DO NOT ENTER SIGNAGE	2	FPT	FPT-1511A
4	EVACUATE SIGNAGE	3	AMPAC	4210-0132
5	IN OPERATIVE SIGNAGE	2	AMPAC	4210-0135
6	LOCAL CONTROL STATIONS	2	AMPAC	4310-0091
7	300mmx300mm GAS SUPPRESSION RELIEF VENT	2	FPT	SHX-UN-300
8	80L, 300PSI PROINERT IG-541 GAS BOTTLES & ENCLOSURE	(3+5) 8	FPT	IG71-080-300-541

NOTES:

1. GAS SUPPRESSION BOTTLES TO BE GROUND MOUNTED INSIDE WEATHERPROOF STEEL ENCLOSURE
2. SUPPRESSION PIPING TO BE CEILING MOUNTED
3. BATTERY VENTILATION LOUVRES TO HAVE AUTOCLOSE DAMPER DURING GAS RELEASE
4. LOCKABLE ISOLATION VALVE SUPPLIED BY FIRE PROTECTION TECHNOLOGIES (FPT)
5. 2x BOTTLE MANIFOLDS SUPPLIED BY FPT
6. MANUAL GAS RELEASE/STOP BUTTON LOCATED ON FIRE INDICATION PANEL AND LOCAL CONTROL STATION
7. EACH ROOM IS ITS OWN PROTECTED ZONE WITH INDIVIDUAL BOTTLE MANIFOLD IN A COMMON BOTTLE ENCLOSURE



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	SSK	ATH	RAJ	DRN.	CHK'D.	C.E.	CLIENT
5819-222-2000	CONSTRUCTION NOTE DETAIL	A	04.07.25	ISSUED FOR CONSTRUCTION							
REFERENCE DRAWINGS											
REVISIONS & APPROVALS											
APPROVALS											

SCALE	1:40
DRAWN	SSK 09.06.25
CHECKED	ATH 09.06.25
DESIGNED	SSK 09.06.25
RJE C.E.	
CLIENT C.E.	
CLIENT P.E.	
CLIENT M.E.	
APPROVED DATE	

**ISSUED FOR CONSTRUCTION**

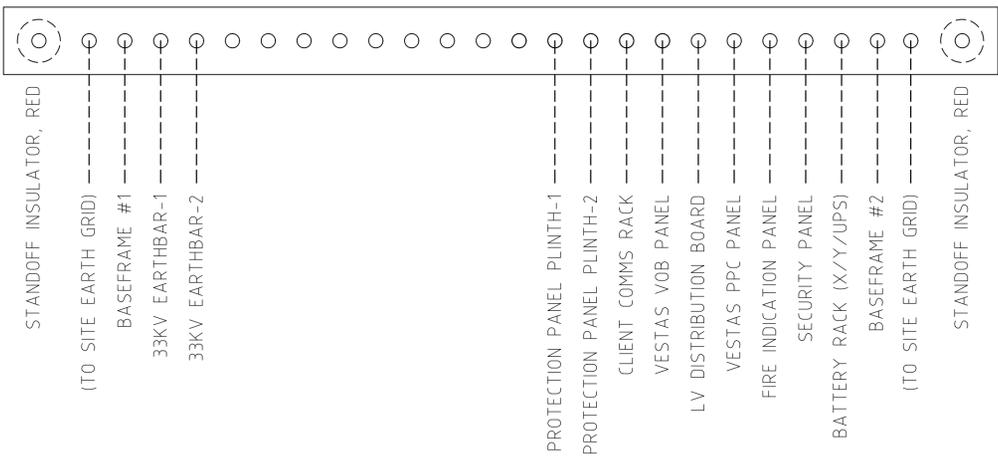
**RJE Global**  
A Lighthouse Industries Company

115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

DOCUMENT NUMBER	KRWF-E-1184-001	DOC. REV.	A
SIZE	A1		
PROJECT No.	5819	DRAWING No.	5819-341-2004
REV.	0		

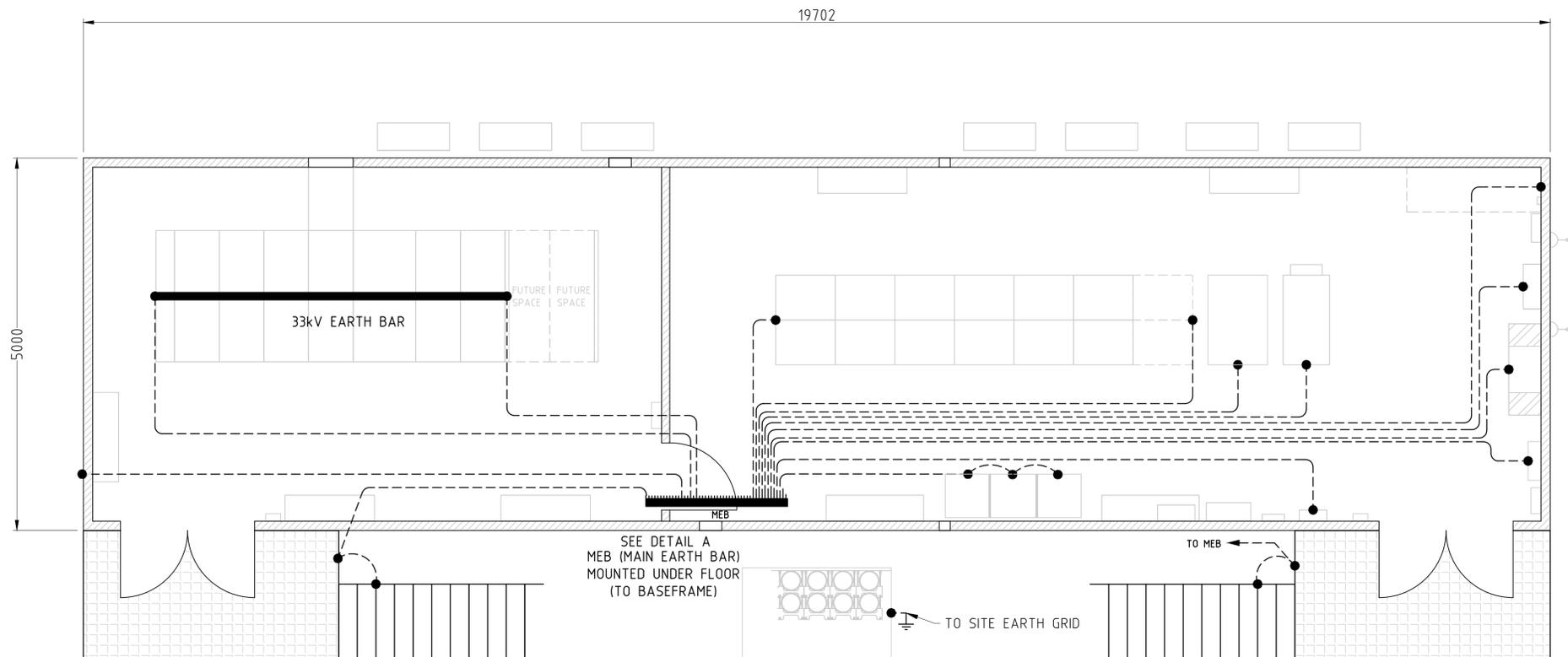
VESTAS  
KING ROCKS WIND FARM  
33kV SWITCHROOM +Z01  
GAS SUPPRESSION LAYOUT

DETAIL A: MAIN EARTH BAR (MEB)  
SEE NOTES



NOTES:

1. EARTH BAR TO BE MINIMUM 1000mm LONG.
2. ALL EARTH CABLES SHALL BE SIZED AS PER CABLE SCHEDULE 5819-302-2001.
3. EARTH BAR TO BE 50mmHx6mmD TINNED COPPER BAR.
4. ALL EARTH BAR HOLES TO BE 11mm DIAMETER AT 30mm CENTERS TO SUIT M10 LUG.
5. 'DASHED' CONNECTION LINES DO NOT INDICATE PATH OF EARTH CABLE, INDICATIVE ONLY.
6. EARTHING OF (BF) BASE FRAME TO MEB VIA 2 OF 50x50mm EXTERNALLY WELDED TABS ON BASE FRAME.
7. RJE IS NOT RESPONSIBLE FOR EARTHING EQUIPMENT INSTALLED BY OTHERS.
8. EARTH BAR TO HAVE MIN. 25% SPARE CONNECTION CAPACITY



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	SSK	ATH	RAJ	DRN.	CHK'D.	C.E.	CLIENT
5819-222-2000	CONSTRUCTION NOTE DETAIL	A	04.07.25	ISSUED FOR CONSTRUCTION							
REFERENCE DRAWINGS											
REVISIONS & APPROVALS											
APPROVALS											

SCALE	1:40
DRAWN	SSK 09.06.25
CHECKED	ATH 09.06.25
DESIGNED	SSK 09.06.25
RJE C.E.	
CLIENT C.E.	
CLIENT P.E.	
CLIENT M.E.	
APPROVED DATE	

ISSUED FOR CONSTRUCTION

115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

ACAD FILE:

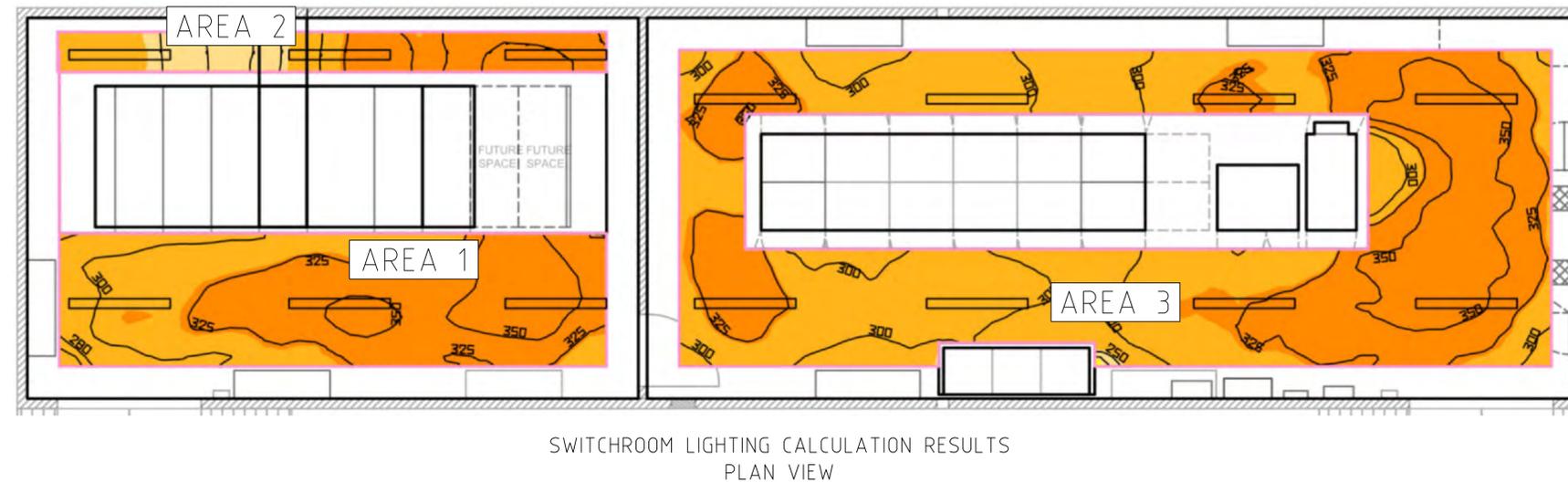
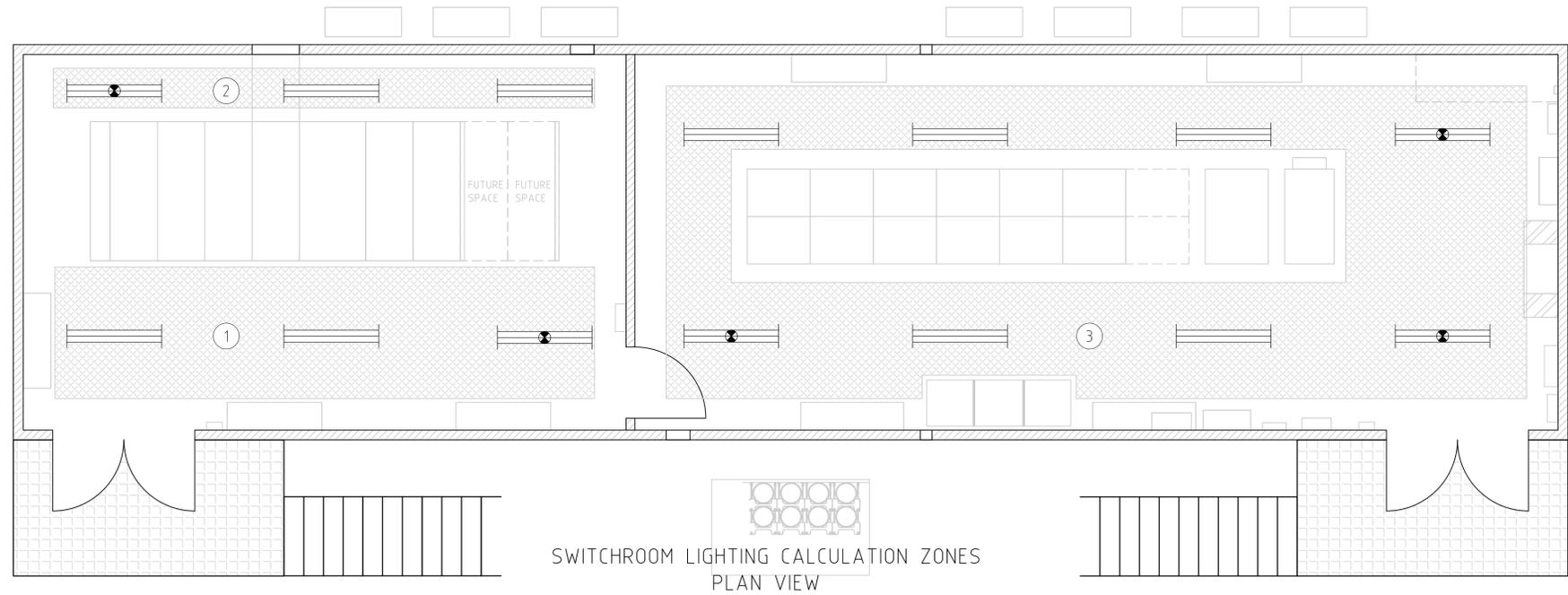
DOCUMENT NUMBER	KRWF-E-1185-001	DOC. REV.	A
SIZE	A1		
PROJECT No.	5819	DRAWING No.	5819-341-2005
REV.	0		

SUMMARY OF LIGHTING MODELLING

TAG	AREA	AVE LUX (CALCULATED)	CLASSIFICATION (AS PER AS/NZS 1680-2)	SUGGESTED AVERAGE (AS PER CLASSIFICATION COLUMN)
AREA 1	HV ROOM - FRONT OF SWITCHGEAR	328	10(a) CONTROL ROOM INTERMITTENTLY MONITORED (AS1680 2.1 TD1)	240
AREA 2	HV ROOM - FRONT OF SWITCHGEAR	296	10(a) CONTROL ROOM INTERMITTENTLY MONITORED (AS1680 2.1 TD1)	240
AREA 3	CONTROL ROOM	321	10(b) CONTROL ROOM CONTINUOUSLY MONITORED (AS1680 2.1 TD1)	320

NOTES:

1. ALL CALCULATIONS PERFORMED IN DIALUX EVO
2. ALL CALCULATIONS CALCULATED AT PERMISSIBLE WORKING HEIGHT OF 700mm AFFL
3. CEILING HEIGHT OF 3350mm
4. MAINTENANCE FACTOR OF 0.8 APPLIED



FALSE COLOUR LEGEND - SWITCHROOM

DOCUMENT NUMBER: KRWF-E-1186-001

DOC. REV. A

SIZE A1  
**VESTAS**  
 KING ROCKS WIND FARM  
 33kV SWITCHROOM +Z01  
 LIGHTING CALCULATION  
 LAYOUT

PROJECT No. 5819 DRAWING No. 5819-341-2006 REV. 0



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	SSK	ATH	RAJ
5819-222-2000	CONSTRUCTION NOTE DETAIL	A	04.07.25	ISSUED FOR CONSTRUCTION			
REFERENCE DRAWINGS		REVISIONS & APPROVALS					

SCALENTS		
DRAWN	SSK	09.06.25
CHECKED	ATH	09.06.25
DESIGNED	SSK	09.06.25
RJE C.E.		
CLIENT C.E.		
CLIENT P.E.		
CLIENT M.E.		
APPROVED DATE		

**ISSUED FOR CONSTRUCTION**

115 MORPHETT ROAD  
 MORPHETTVILLE, SA, 5043  
 TEL +61 8 8300 9500  
 FAX +61 8 8300 9501  
 EMAIL enquiries@rjeglobal.com

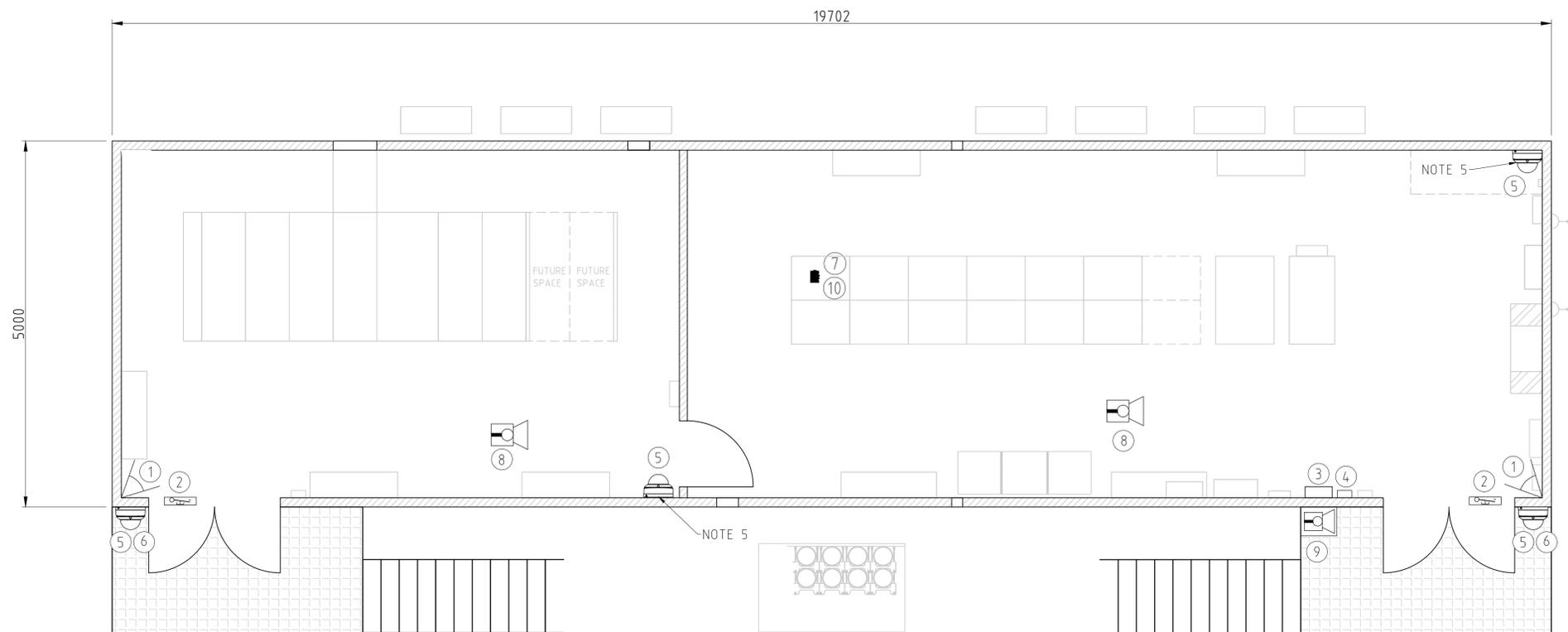
ACAD FILE:

EQUIPMENT LIST

ITEM	DESCRIPTION	QTY	MANUFACTURE	PART No.
1	MOTION SENSOR PIR	2	BOSCH	ISC-BPR2-W12
2	REED SWITCH	2	SENTROL	1076H
3	SECURITY PANEL	1	BOSCH	SOLUTION 6000
4	KEYPAD	1	BOSCH	CP700B
5	TURRET SECURITY CAMERA	4	HANWHA	QNE-8011R
6	WALL MOUNT BRACKET	2	HANWHA	SBP-125WMW
7	PoE SWITCH	1	PLANET	IGS-1020PTF-12V
8	INDOOR PIEZO STYLE SCREAMER	2	BOSCH	HC-P2-1
9	STROBE SOUNDER EXTERNAL	1	SECOR	WP06
10	NVR	1	HANWHA	CT-XRN-8155

NOTES:

- PIR MOTION SENSORS MOUNTED UNDER CEILING HEIGHT. (~2500mm)
- SECURITY PANEL WALL MOUNTED AT 2700mm AFFL.
- KEYPAD MOUNTED AT 1600mm FROM AFFL.
- PoE SWITCH MOUNTED IN COMMS PANEL
- INTERNAL CAMERAS TO BE CEILING MOUNTED



	THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.	DRAWING NUMBER: 5819-222-2000 DRAWING TITLE: CONSTRUCTION NOTE DETAIL		REV: A DATE: 04.07.25	DESCRIPTION: ISSUED FOR CONSTRUCTION	SSK ATH RAJ	DRN. CHK'D. C.E. CLIENT	APPROVED DATE:	SCALE: 1:40 DRAWN: SSK 09.06.25 CHECKED: ATH 09.06.25 DESIGNED: SSK 09.06.25	ISSUED FOR CONSTRUCTION	DOCUMENT NUMBER: KRWF-E-1187-001 DOC. REV: A	SIZE: A1
		REFERENCE DRAWINGS	REVISIONS & APPROVALS	APPROVALS	ACAD FILE:	PROJECT No.: 5819 DRAWING No.: 5819-341-2007	REV: 0					

115 MORPHETT ROAD  
 MORPHETTVILLE, SA, 5043  
 TEL +61 8 8300 9500  
 FAX +61 8 8300 9501  
 EMAIL enquiries@rjeglobal.com

# O&M BUILDING CONSTRUCTION DETAIL

## OVERALL REQUIREMENTS

- 13467x8961 EXTERNAL DIMENSION
- 2700mm INTERNAL CEILING
- ~3815mm OVERALL BUILDING HEIGHT
- GUTTERS AND DOWNPIPES REQUIRED

## GENERAL REQUIREMENT

- EXTERNAL WALLS: 12mm GRC
- ROOF: CURVED BULLNOSE 12mm GRC
- INTERNAL WALLS: 9mm CFC SHEETING
- INTERNAL FLOOR: 18mm CFC SHEETING
- INTERNAL FLOOR FINISH: 3mm NON SLIP, GREY VINYL TILES
- CEILING: 50mm BONDOR SHEETING
- INSULATION (WALLS): R2.7 (RJE STANDARD)
- INSULATION (CEILING): R4 (RJE STANDARD)
- BATHROOM FLOORING: VINYL COVERED (100mm UP WALL)

## PENETRATIONS (GRC PRECAST)

- WINDOWS
- BATHROOM VENTILATION - ROOF GABLE END

## EXTRA REQUIREMENTS

- WINDOWS FURNISHINGS (EITHER BLINDS, SHUTTERS, CURTAINS) TO BE SUPPLIED BY RJE
- OFFICE FURNITURE AND KITCHEN WHITE GOODS TO BE SUPPLIED BY RJE
- REFER VESTAS VSR ANNEX 32 FOR REQUIRED FURNITURE SUPPLY

- TOILET CUBICLE IS AMBULANT ACCESS COMPLIANT AS PER AS1428.1:2021 SECTION 13
- ACCESSIBLE UNISEX BATHROOM IS COMPLIANT AS PER AS1428.1:2021 SECTION 12
- BUILDING IS DDA COMPLIANT AS PER NCC 2022 AND AS1428.1:2021

## SPECIFICATIONS

- RJE LETTER OF OFFER
- SCHEDULE 3 - KING ROCKS WIND FARM TECHNICAL SPECIFICATION
- VESTAS VSR -
  - ANNEX 31
  - ANNEX 32

## LOADING CONDITIONS

- FLOOR LIVE LOAD - 5kPa
- EQUIPMENT LOADING AS PER TABLE - DRAWING 5819-341-5001

## REFERENCE

- WORKS COMPLY WITH, BUT ARE NOT LIMITED TO THE FOLLOWING:
- AS 1288-2006 (BUILDING GLASS SELECTION AND INSTALLATION)
- AS 1428.1-2021 - SECTION 13 (AMBULANT TOILET)
- AS 1668-2015 PART 1 & -2012 PART 2 (VENTILATION & AIR CONDITIONING)
- AS 2047-2014 (WINDOWS & EXTERNAL GLAZED DOORS)
- AS 3740-2010 (WATERPROOFING DOMESTIC WET AREAS)
- AS 3486-2014 (SMOKE ALARMS)
- AS 3959-2018 (CONSTRUCTION IN BUSHFIRE-PRONE AREAS)
- NCC 2022 (VOL. 1 & 2)

## LIGHTING REQUIREMENTS

- CLEVERTRONICS EPIC INDOOR BATTEN
- CLEVERTRONICS ARGO WEATHERPROOF BATTEN
- CLEVERTRONICS CIRCLITE PREMIUM OYSTER LIGHT
- CLEVERTRONICS CLEVERFIT LED EXIT LIGHTS
- CLEVERTRONICS SURFACE MOUNT EMERGENCY LIGHTS
- PIERLITE LED FLOODLIGHT
- PE CELL TO BE ACCESSIBLE W/ MANUAL OVERRIDE IN DB
- REFER 5819-341-5002 (LIGHT AND SMALL POWER)

## SMALL POWER REQUIREMENTS

- CUSTOM LIGHT AND SMALL POWER DB - NHP CONCEPT PREMIER
- TERASAKI AND NHP COMPONENTS
- 3 POLE 36 WAY 160A MAIN SWITCH 250A CHASSIS
- EMERGENCY LIGHTS HAVE ONBOARD TEST FUNCTION - NOT REQUIRED ON L&SP DB
- CLIPSAL 2000 SERIES SINGLE GANG TWO WAY LIGHT SWITCH (1300mm AFFL)
- CLIPSAL 2000 SERIES 10A DOUBLE GPO
- CLIPSAL 2000 SERIES 10A DOUBLE GPO - RED FOR UPS FED OUTLETS
- CLIPSAL 2000 SERIES 15A - KITCHEN BENCHTOP
- CLIPSAL 2000 SERIES RJ45 DOUBLE SOCKET
- CLIPSAL PRESTIGE SERIES SINGLE GANG LIGHT SWITCH REQUIRED FOR ACCESSIBLE BATHROOM
- CLIPSAL PRESTIGE SERIES SINGLE 10A GPO REQUIRED FOR ACCESSIBLE BATHROOM
- STIEBEL ELTRON DEL 27 PLUS ELECTRIC INSTANT WATER HEAT
- HAND DRYERS TO BE INSTALLED IN ALL TOILETS
- KATKO 40A ISOLATOR SWITCH FOR A/Cs - ISO340
- REFER 5819-341-5002 (LIGHT AND SMALL POWER)

## FIRE DETECTION AND SUPPRESSION

- FIRE INDICATION PANEL - AMPAC FIREFINDER SP1X
- PHOTO OPTICAL SMOKE DETECTION - AMPAC
- INTERNAL STROBE/SOUNDER - AMPAC
- EXTERNAL STROBE/SOUNDER - AMPAC
- MANUAL CALL POINTS - AMPAC
- CO2 FIRE EXTINGUISHERS
- FIRE ALARM OUTPUTS TO SCADA SYSTEM
- REFER 5819-341-5003 (FIRE DETECTION)

## AIR CONDITIONING

- 2 OFF VRV A/C UNITS - FUJITSU
- 1 OFF SINGLE SPLIT SYSTEM A/C UNITS - FUJITSU (COMMS ROOM)
- A/C CONDENSER UNITS MOUNTED TO END WALL OF BUILDING
- HEAD UNITS AND PIPING/ELECTRICAL INSTALLED AT LONSDALE FACTORY
- ISOLATORS FOR OUTDOOR UNITS MOUNTED ON GRC EXTERIOR ADJACENT TO UNIT
- COMPRESSORS, ISOLATORS AND COMMISSIONING COMPLETED AT LONSDALE
- INSULATED COPPER PIPE WORK
- WALL CONTROLLERS HARDWIRED AND MOUNTED ADJACENT TO LIGHT SWITCHES PER ROOM
- BATHROOM COMMON EXHAUST FAN KIT - FANTECH
- REFER 5819-341-5004 (HVAC SYSTEM)

## SECURITY

- REED SWITCH ON EXTERNAL DOORS
- SECURITY PANEL
- SECURITY ALARM KEYPAD
- INTERNAL CCTV CAMERAS
- EXTERNAL CCTV CAMERAS
- PIR SENSORS
- INTERNAL/EXTERNAL ALARM SCREAMERS/BEACONS
- REFER 5819-341-5004 (SECURITY SYSTEM)

## DOORS

DOOR TAG	DOOR ID	SIZE (CLEAR OPENING)	HINGED SIDE/ACTIVE LEAF
SD1		FRONT ENTRANCE - SINGLE - 1000x2200	RIGHT
SD2		TOILET - SINGLE - 800x2200	RIGHT

\*REFER 5819-341-5001 FOR DOOR IDENTIFICATION. FOR INTERNAL DOOR DETAILS, REFER 5819-223-5004  
SDx REFERS TO SINGLE (PERSONAL ACCESS) DOOR, DDx REFERS TO DOUBLE DOOR (EQUIPMENT DOOR)

- DOOR HARDWARE - (RJE STANDARD DOOR) -EXTERNAL
- 2HR FIRE RATED PYRO PANEL - CAPPED AND FACED W/51mm COLOURBOND POWDER COATED
- INTEGRAL GRC DOOR FRAME
- 100 x 100 x 3.2mm SS HINGES
- BRITON 1130B HEAVY DUTY DOOR CLOSER
- KILGARO IS809SI C/A BOTTOM DOOR SEAL - FIRE AND SMOKE RATED
- KILGARO IS7025SI C/A INTUMESCENT PERIMTER SEAL
- DORMA DO-PHA201 PANIC CRASH BAR DEVICE ON ALL ACTIVE LEAFS
- DO DO-PHT05FR LEVEL PHT 05 (HANDLE)
- VISION PANEL ON EXTERNAL DOORS

## DOOR HARDWARE - INTERNAL NON-FIRE RATED

- NATURALLY ANODISED DOOR FRAME
- KA10070FF-TF-SSS HINGES
- HARDWARE LWVSR0-37SC 55mm ROUND MORTICE LVR SET SC
- LEAF MATERIAL: HUME SOLIDCORE DURACOTE
- SITE PRINCIPALS OFFICE TO BE LOCKABLE
- COMMS ROOM TO HAVE SOLID CORE DOOR WITH DEADLOCK
  - DEADLOCK: LW 005 DOUBLE CYLINDER ROUND DEADBOLT
  - COMMS ROOM DOOR TO HAVE GRILLE FOR VENTILATION

## EXCEPTION: BATHROOM DOOR HARDWARE

- 400Wx400H LOUVRE VENT (LOW MOUNT) - AMBULANT BATHROOM CUBICLES ONLY
- ESCAPE PRIMARY LOCK
- 3700 TURN ADAPTER
- 55mm ROUND MORTICE LVR SET SC
- VELOCITY 55mm ROUND DIS. ACCESS T/SNIB
- VELOCITY 55mm ROUND EMERGENCY INDICATING T/SNIB
- VELOCITY PRIVACY BOLT 6260

## COLOURS

BASEFRAME	EVENING HAZE
EXTERNAL WALLS	EVENING HAZE
ROOF	EVENING HAZE
EXTERNAL & INTERNAL DOORS	EVENING HAZE
EXTERNAL WINDOW FRAMES	EVENING HAZE
INTERNAL WALLS & CEILING	SURFMIST
GUTTERS AND DOWNPIPES	EVENING HAZE

\*EXCEPT WHERE NOTED, ALL COLOURS ARE TO AS2700

## BASEFRAME AND PAINTED STRUCTURAL STEEL PROTECTIVE COATINGS (RJE STANDARD)

- REFER 0000-042-0003

COATING	BRAND/TYPE	MINIMUM DFT
PRIME COAT	DULUX - ZINCANODE 402	75µm
TOP COAT	DULUX - WEATHERMAX HBR	75µm

\*ALL COATINGS TO BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS

## NDT REQUIREMENTS (RJE STANDARD)

- 10% MAGNETIC PARTICLE TESTING ON ALL WELDS
- REFER 0000-042-0003

DOCUMENT NUMBER: KRWF-E-1188-001 DOC. REV. A

SIZE: A1

VESTAS  
KING ROCKS WIND FARM  
O&M BUILDING +Z03  
CONSTRUCTION NOTE  
DETAIL

PROJECT No. 5819 DRAWING No. 5819-222-5000 REV. 0

## SCALENTS

DRAWN	SSK	09.06.25
CHECKED	ATH	09.06.25
DESIGNED	SSK	09.06.25

RJE C.E.		
CLIENT C.E.		
CLIENT P.E.		
CLIENT M.E.		

APPROVED DATE

ISSUED FOR CONSTRUCTION

RJE Global  
115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

ACAD FILE:

© COPYRIGHT

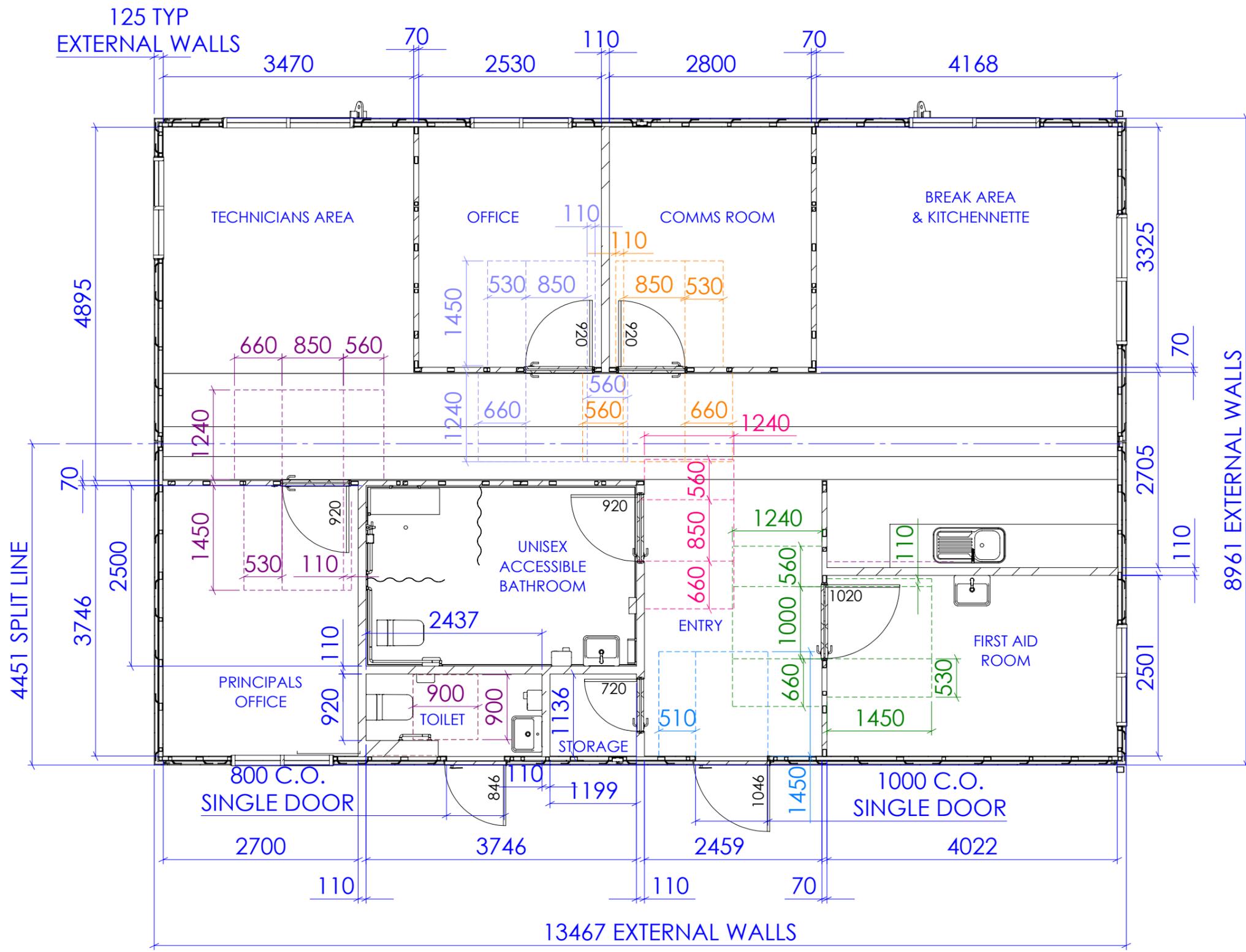


THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	SSK	ATH	RAJ	DRN	CHK'D	C.E.	CLIENT
5819-341-5001	FLOOR PLAN LAYOUT	0	09.01.26	ISSUED FOR CONSTRUCTION							
REFERENCE DRAWINGS		REVISIONS & APPROVALS									

APPROVALS

- GENERAL NOTES:**
- WORKS SHALL COMPLY BUT NOT BE LIMITED TO THE FOLLOWING STANDARDS
  - AS 1288 - 2006 GLASS IN BUILDING - SELECTION & INSTALLATION
  - AS 1428.1 - 2021 DESIGN FOR ACCESS & MOBILITY
  - AS 1668 - 2024 PART 1 & 2012 2 THE USE OF VENTILATION & AIR CONDITIONING IN BUILDINGS
  - AS 2047 - 2014 WINDOWS & EXTERNAL GLAZED DOORS IN BUILDINGS
  - AS 3740 - 2021 WATERPROOFING OF DOMESTIC WET AREAS
  - AS 3786 - 2014 SMOKE ALARMS
  - AS 3959 - 2018 CONSTRUCTION OF BUILDINGS IN BUSHFIRE PRONE AREAS
  - NCC 2022 VOLUME ONE & TWO



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY LTD  
IT IS SUBJECT TO RETURN UPON DEMAND AND MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN AND INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL Pty. Ltd.

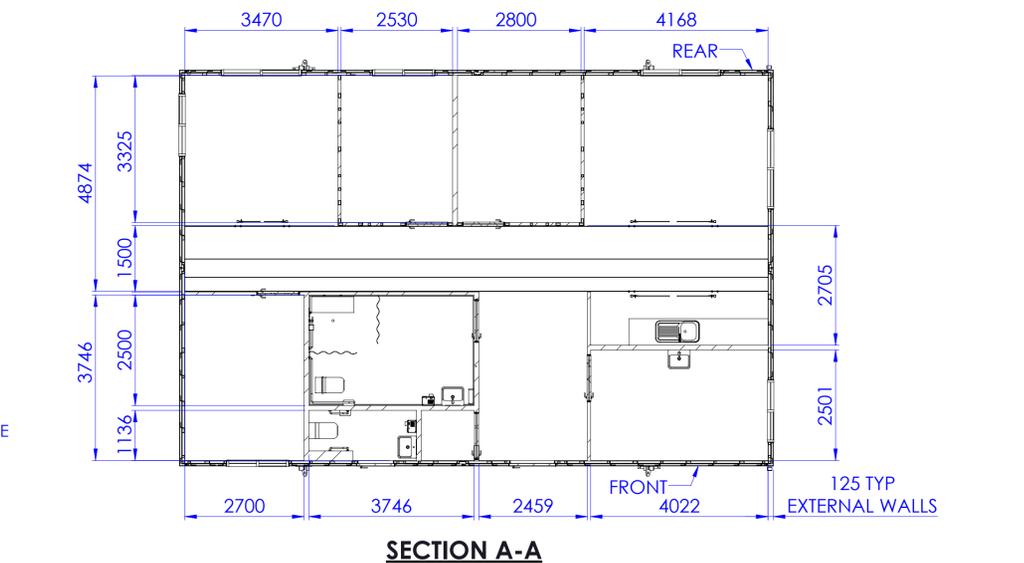
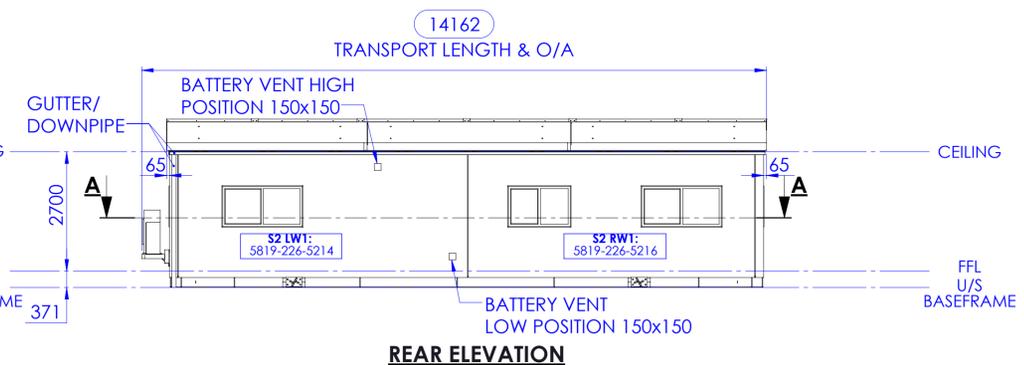
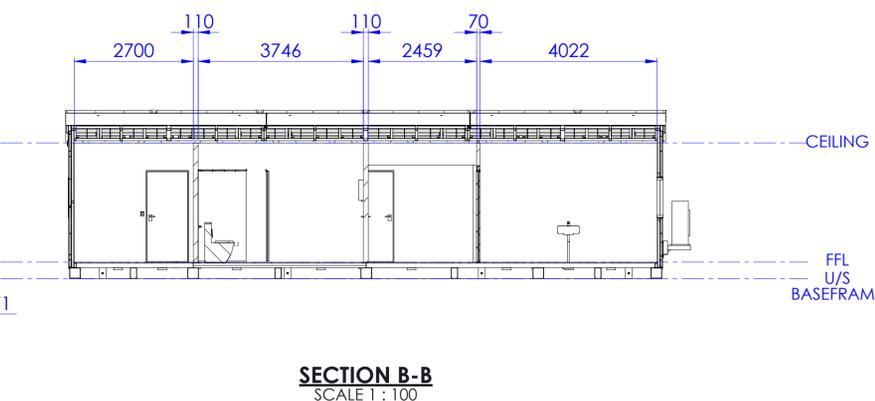
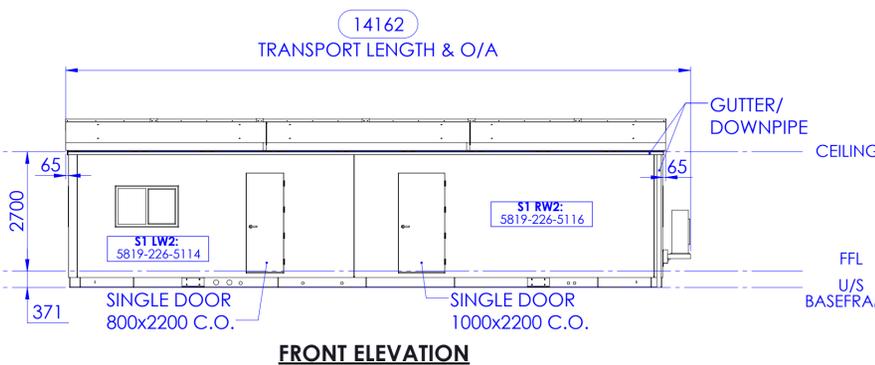
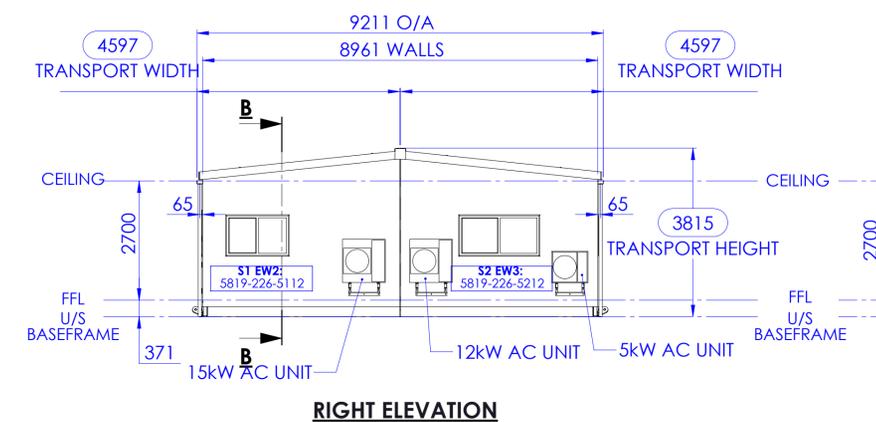
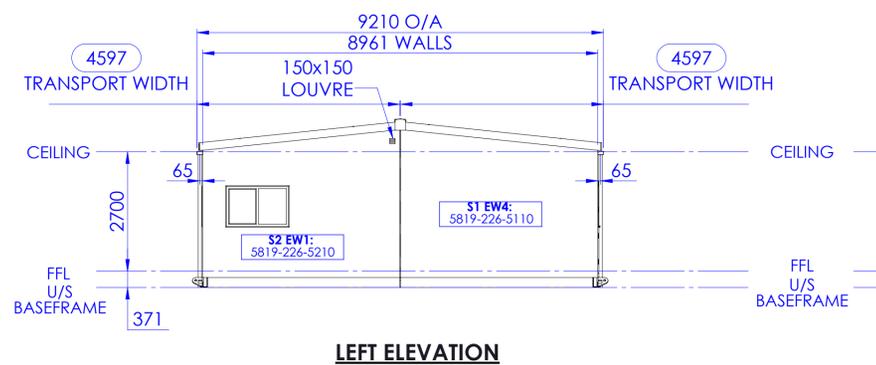
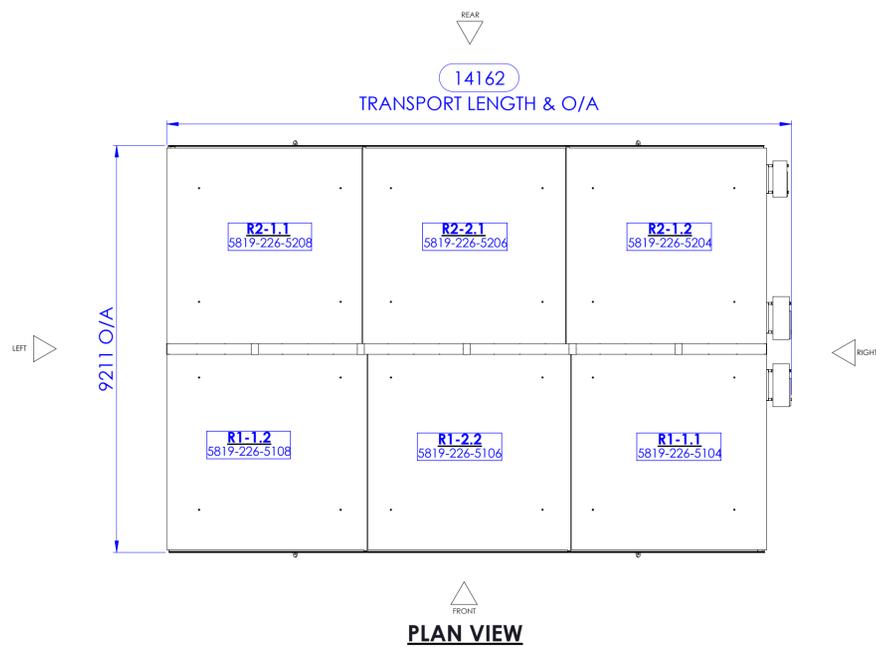
DRG NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	DRN	CHK'D	C.E.	CLIENT	APPROVED DATE
		A	16.01.26	ISSUED FOR CONSTRUCTION	KW	SJW			
REFERENCE DRAWINGS									
REVISIONS AND APPROVALS									
APPROVALS									

SCALE 1:60

ISSUED FOR CONSTRUCTION

RJE GLOBAL PTY LTD  
115 MORPHETT ROAD  
MORPHETTVILLE, SA  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

DOCUMENT NUMBER KRFW-E-1189-001	DOC. REV. A
SIZE A3	
VESTAS KING ROCKS WIND FARM O&M BUILDING +Z03 FLOOR PLAN LAYOUT DRAWING	
PROJECT No. 5819	DRAWING No. 5819-222-5001
REV. 0	



**MATERIALS**

EXTERNAL WALLS & ROOF - 12mm GRC  
 INTERNAL FLOOR - 18mm CFC  
 INTERNAL WALLS - 9mm FIBRE SHEET  
 CEILING - 50mm COMPOSITE CEILING PANEL

**WINDOWS**

EXT - SINGLE GLAZED 3 OFF - 1800x900  
 EXT - SINGLE GLAZED 4 OFF - 1400x900

**DOORS**

SINGLE DOOR (EXTERNAL) 1 OFF - CLEAR OPENING: 1000 x 2200  
 SINGLE DOOR (EXTERNAL) 1 OFF - CLEAR OPENING: 800 x 2200  
 SINGLE DOOR (INTERNAL) 4 OFF - CLEAR OPENING: 900 x 2000 (920 DOOR LEAF)  
 SINGLE DOOR (INTERNAL) 1 OFF - CLEAR OPENING: 700 x 2000 (720 DOOR LEAF)  
 SINGLE DOOR (INTERNAL) 1 OFF - CLEAR OPENING: 1000 x 2000 (1020 DOOR LEAF)

**NOTES**

1. ALLOWED FOR BUILDING
2. EXTERNAL TO INTERNAL : 2HR FIRE RATED WALLS & DOORS.
3. R4 INSULATION (CEILING), R2.5 INSULATION (WALLS) & UNDERFLOOR.
4. DIRECTIONAL LABELS FOR RJE USE ONLY, NOT FOR SITE USE.
5. GUTTERS AND DOWNPIPES TO BE FITTED TO BOTH SIDES OF BUILDING.

**PAINT & FINISH**  
 REFER TO DRAWING: 5819-222-5000

EXCEPT WHERE NOTED, ALL COLOURS ARE TO AS2700

© Copyright



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY LTD  
 IT IS SUBJECT TO RETURN UPON DEMAND AND MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN AND INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL Pty. Ltd.

DRG NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	KW	SJW	CHK'D	C.E.	CLIENT
		A	16.01.26	ISSUED FOR CONSTRUCTION					

REVISIONS AND APPROVALS	

APPROVALS	

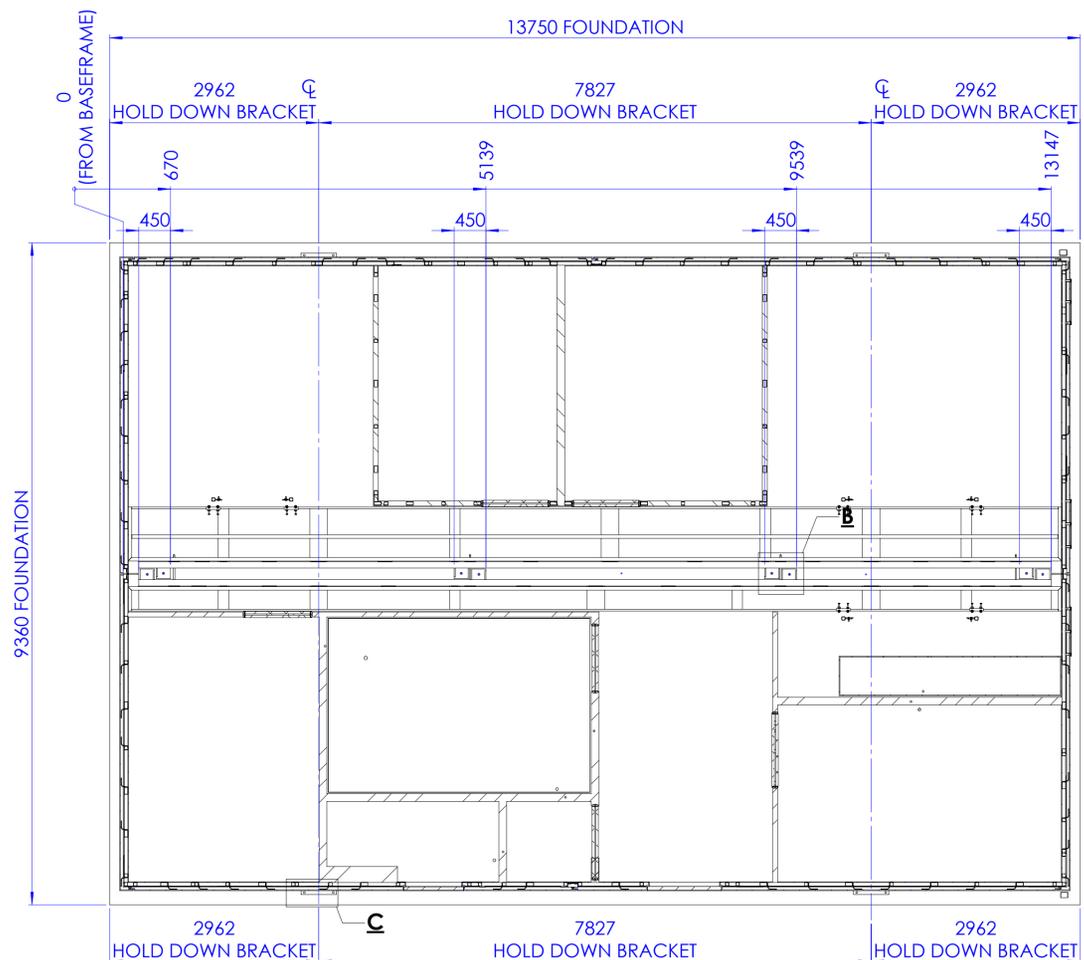
SCALE 1:80

ISSUED FOR CONSTRUCTION

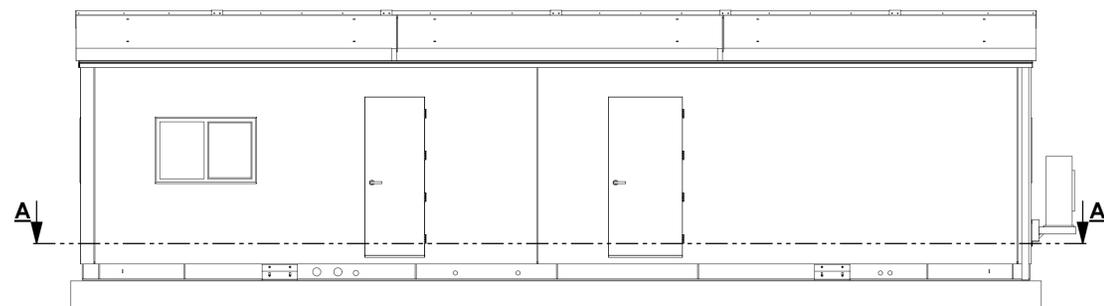
RJE Global  
 115 MORPHETT ROAD  
 MORPHETTVILLE, SA  
 TEL +61 8 8300 9500  
 FAX +61 8 8300 9501  
 EMAIL enquiries@rjeglobal.com.au

DOCUMENT NO. KRW-E-1190-001	DOC. REV. A
SIZE A1	
<b>VESTAS</b> KING ROCKS WIND FARM O&M BUILDING +Z03 BUILDING OVERVIEW LAYOUT DRAWING	
PROJECT No. 5819	DRAWING No. 5819-222-5002
	REV. 0

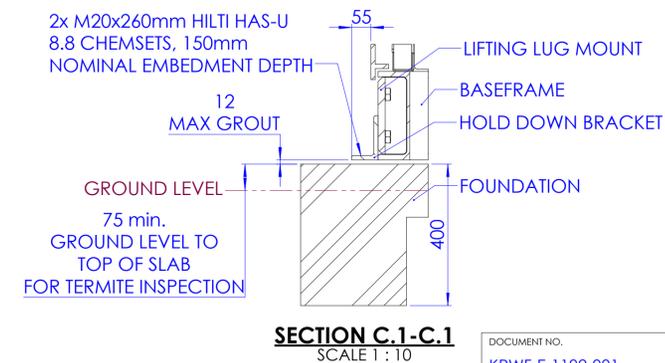
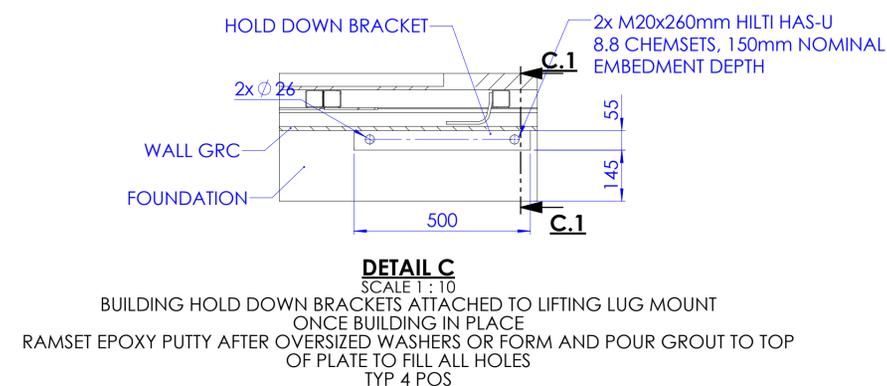
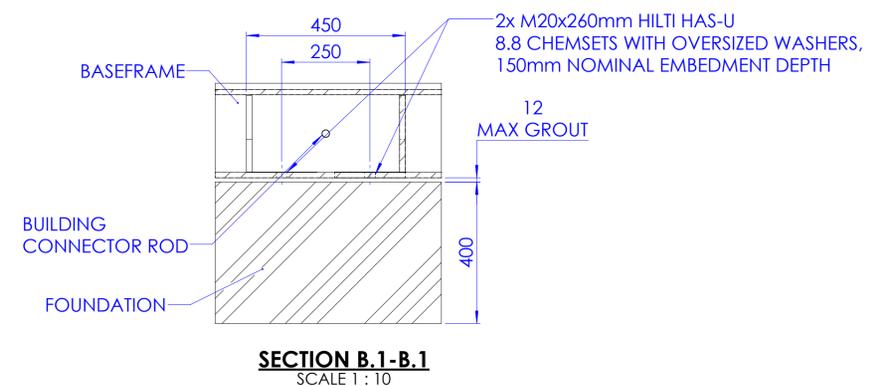
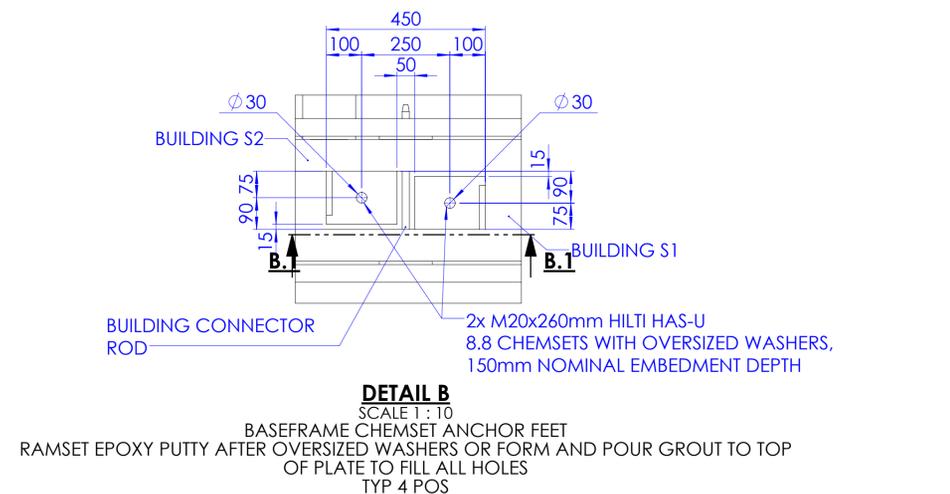




**SECTION A-A**  
SCALE 1 : 50  
CFC JOINER ASSEMBLY HIDDEN FOR CLARITY



**FRONT ELEVATION**



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY LTD  
IT IS SUBJECT TO RETURN UPON DEMAND AND MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN AND INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL Pty. Ltd.

DRG NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	KW	SJW	C.E.	CLIENT
A	16.01.26	ISSUED FOR CONSTRUCTION	KW	SJW				
REFERENCE DRAWINGS								
REVISIONS AND APPROVALS								

SCALE 1:50		
DRAWN	KW	19.06.25
CHECKED	SJW	19.06.25
DESIGNED		
RJE C.E.		
CLIENT C.E.		
CLIENT P.E.		
CLIENT M.E.		
APPROVED	DATE	

**ISSUED FOR CONSTRUCTION**

**RJE Global**

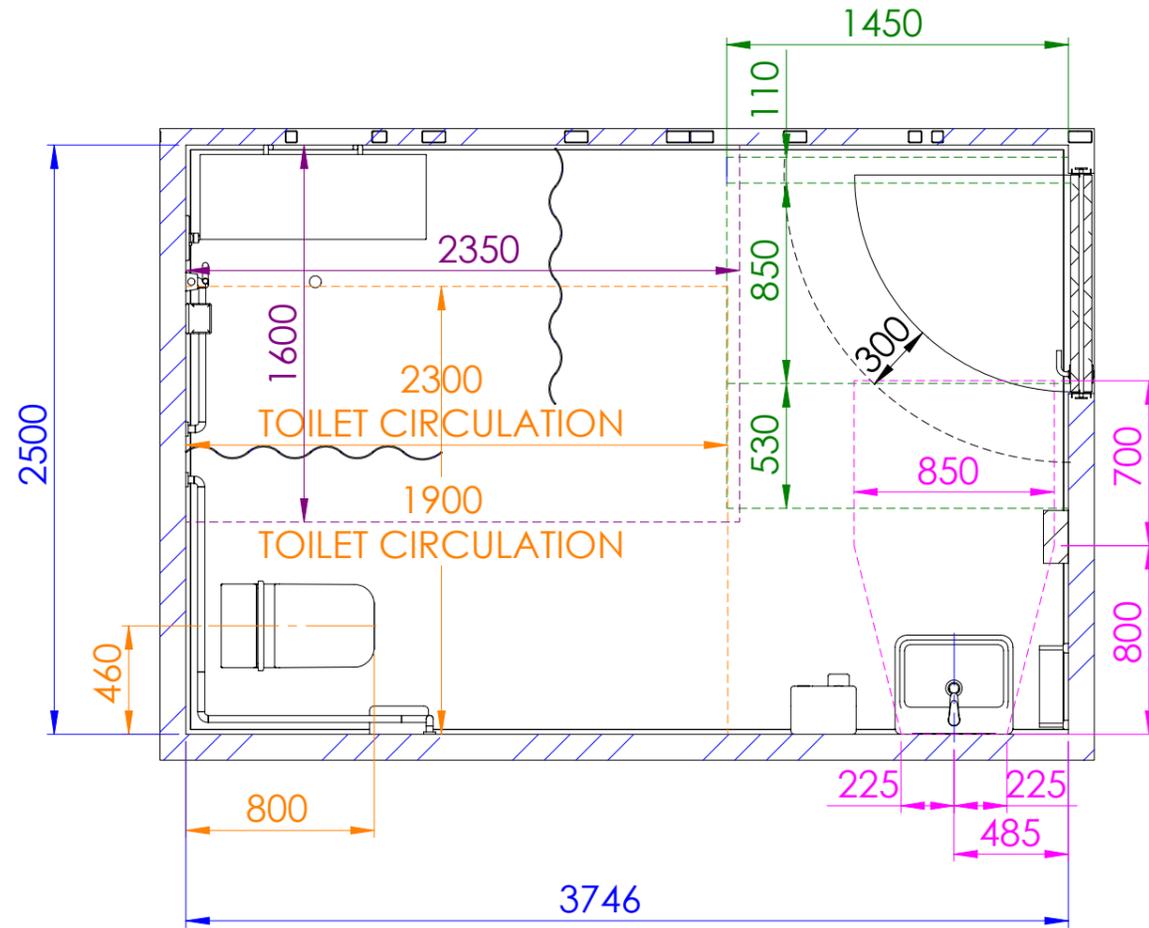
115 MORPHETT ROAD  
MORPHETTVILLE, SA  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com.au

ACAD FILE

DOCUMENT NO. KRFW-E-1192-001	DOC. REV. A
SIZE A1	
<b>VESTAS</b> KING ROCKS WIND FARM O&M BUILDING +Z03 HOLD DOWN LAYOUT DRAWING	
PROJECT No. 5819	DRAWING No. 5819-222-5004
REV. 0	

CAN BE READ IN CONJUNCTION WITH 5819-222-5001 FLOOR PLAN

ALL WET AREAS ARE WATERPROOF & WATER RESISTANT AS PER THE REQUIREMENTS SET OUT IN THE NCC 2022 - PART F2 DTS PROVISIONS & AS3740:2021



**DETAIL B**  
REF: 5819-222-5001



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY LTD  
IT IS SUBJECT TO RETURN UPON DEMAND AND MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN AND INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL Pty. Ltd.

DRG NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	DRN	CHK'D	C.E.	CLIENT	APPROVED	DATE
		0	23.01.25	ISSUED FOR CONSTRUCTION	KW	SJW				19.06.25
		B	04.11.25	PRELIMINARY	KW	SJW				19.06.25
		A	16.04.25	PRELIMINARY	KW	SJW				

SCALE	1:30
DRAWN	19.06.25
CHECKED	19.06.25
DESIGNED	
RJE C.E.	
CLIENT C.E.	
CLIENT P.E.	
CLIENT M.E.	

**ISSUED FOR CONSTRUCTION**

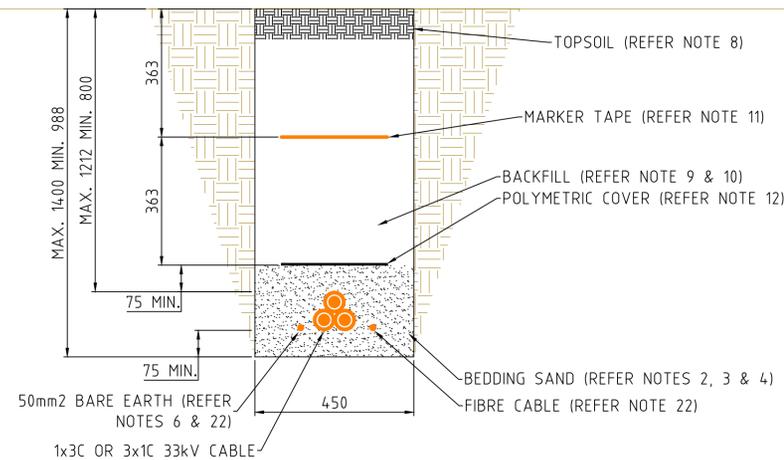
**RJE**  
115 MORPHETT ROAD  
MORPHETTVILLE, SA  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

DOCUMENT NUMBER KRWf-E-1193-001	DOC. REV. A
SIZE A3	
<b>VESTAS</b> KING ROCKS WIND FARM O&M BUILDING +Z03 WET AREA CIRCULATION LAYOUT DRAWING	
PROJECT No. 5819	DRAWING No. 5819-222-5005
REV. 0	

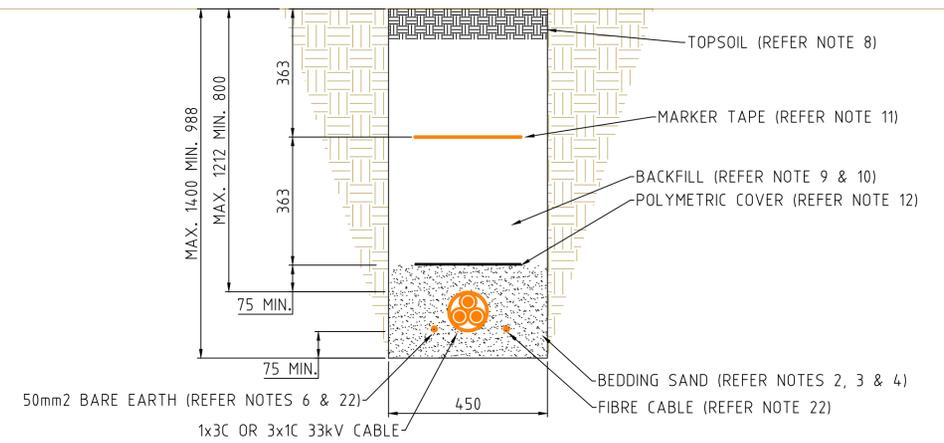
**NOTES:**

- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- MINIMUM 75mm OF BEDDING SAND TOP & BOTTOM & 50mm OF BEDDING SAND ON SIDES OF SERVICES.
- BEDDING MATERIAL SHALL BE OF A THERMAL RESISTIVITY AS PER THE CONDUCTOR SIZING REPORT.
- BEDDING MATERIAL SHALL BE FREE OF STONES, TREE ROOTS & OTHER DEBRIS WHICH MAY DAMAGE THE CABLE.
- BACKFILL TO BE COMPACTED AS PER TRENCHING WORK METHOD.
- INCLUSION OF BARE EARTH CONDUCTOR WILL BE SUBJECT TO FINAL DESIGN. IF NOT REQUIRED BY THE EARTHING DESIGN THE EARTH WIRE WILL BE OMITTED.
- WHERE CABLES CROSS THE LOWER SUPPLY CABLE, THEY WILL BE 1224mm DEEP FOR MORE THAN 3000mm TO AVOID FURTHER DERATING OF THE LOWER CABLE.
- TOPSOIL, WHERE FOUND, SHALL BE PRESERVED DURING EXCAVATION & REINSTATED FOLLOWING TRENCH BACKFILL. TYPICAL TOPSOIL DEPTH SHOWN.
- BACKFILL (UNDER MARKER TAPE) TO BE FREE FROM ANY SHARP OBJECTS OR STONES >75mm.
- BACKFILL TO BE COMPACTED IN 300mm LAYERS ABOVE MECHANICAL PROTECTION.
- ORANGE MARKER TAPE COMPLYING WITH AS2648.1 SHALL BE INSTALLED NO GREATER THAN 50% DEPTH OF THE HARDCOVER.
- POLYMERIC COVER TO BE A MINIMUM 250mm WIDTH 5mm THICKNESS & COMPLIANT TO AS4702 WITH A MINIMUM OVERLAP OF 40mm TO CABLES.
- CLASS 3 GRADED QUARRY RUBBLE TO BE INSTALLED AND COMPACTED ON ACCESS TRACK CROSSINGS.
- IF CONCRETE COVER FOR CROSSINGS ARE PRE-CAST OFF SITE, THE CONCRETE SLABS SHALL BE A MINIMUM OF 250mm IN WIDTH, 40mm THICK & NOT LESS GRADE THAN 20 IN ACCORDANCE WITH AS3600.
- IF CONCRETE COVER FOR CROSSING ARE POURED ON SITE, CONCRETE SLABS SHALL BE A MINIMUM OF 250mm WIDTH & 100mm THICK. FOR CONTINUOUS CONCRETE POUR IN TRENCH, MINIMUM 75mm THICK.
- INSTALLATION WORKS TO COMPLY WITH AS3000 AS APPLICABLE.
- ALL CABLE ROUTES TO BE GPS SURVEYED.
- ALL CABLE JOINTS TO BE MARKED WITH A 3M LOCATOR BALL.
- ADJACENT TRENCH CENTRES SHALL HAVE MINIMUM 2000mm SEPARATION OR AS PER DESIGN CALCULATIONS.
- CROSSOVERS TO BE CLOSE TO 90° AS PRACTICAL.
- ROAD TO BE REINSTATED AS PER THE CIVIL ROAD DESIGN SPECIFICATION.
- TYPICAL DISTANCE BETWEEN 33kV CABLE & FIBRE OPTIC / EARTH CABLE WITHIN ALL TRENCH TYPE INSTALLATIONS TO BE 100mm.
- STABILISED SAND MIXTURE CONSISTING OF 14:1 BATCHED SAND & CEMENT.

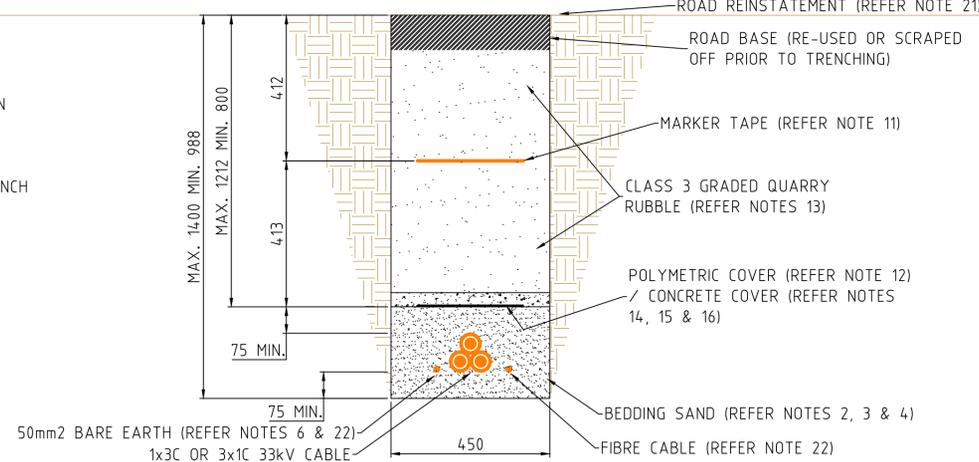
**TRENCH DETAIL 33kV CABLE**



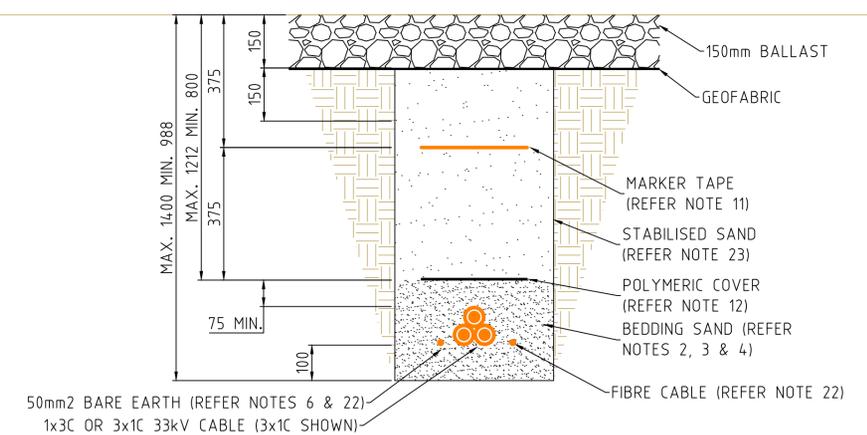
**TRENCH DETAIL 33kV CABLE**



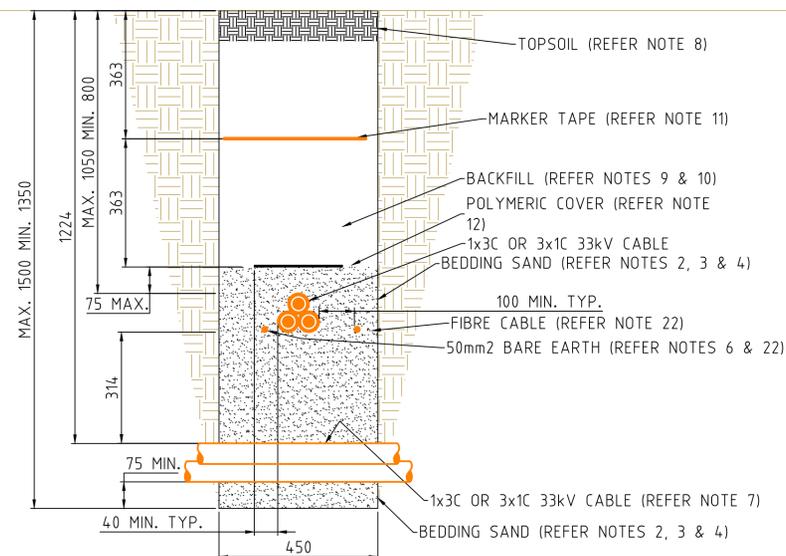
**ROAD CROSSING DETAIL 33kV CABLE**



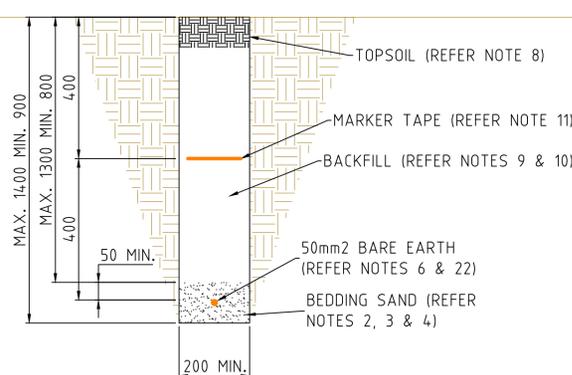
**CREEK CROSSING DETAIL**



**TRENCH DETAIL 33kV CABLE CROSS OVER**



**TRENCH DETAIL EARTH CABLE**



© COPYRIGHT



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	DRN.	CHK'D.	C.E.	CLIENT
5819-321-3001	33kV RETICULATION CABLE ALIGNMENT	0	15.01.26	ISSUED FOR CONSTRUCTION	MC	JP	RAJ	
5819-304-0002	CONDUCTOR SIZING REPORT							
REFERENCE DRAWINGS								
REVISIONS & APPROVALS								

SCALE	1:10
DRAWN	MC 27.05.25
CHECKED	KG 20.06.25
DESIGNED	MC 27.05.25
RJE C.E.	RAJ 27.05.25
CLIENT C.E.	
CLIENT P.E.	
CLIENT M.E.	
APPROVED DATE	

**ISSUED FOR CONSTRUCTION**

**RJE Global**  
A Lighthouse Industries Company

115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

ACAD FILE: rPublish\_344721

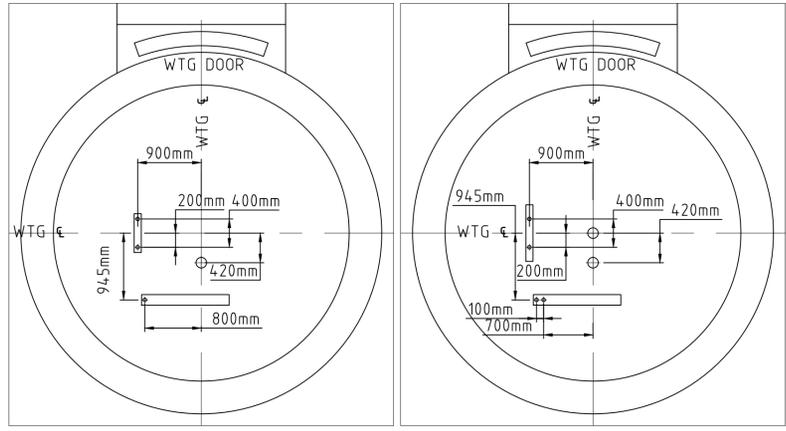
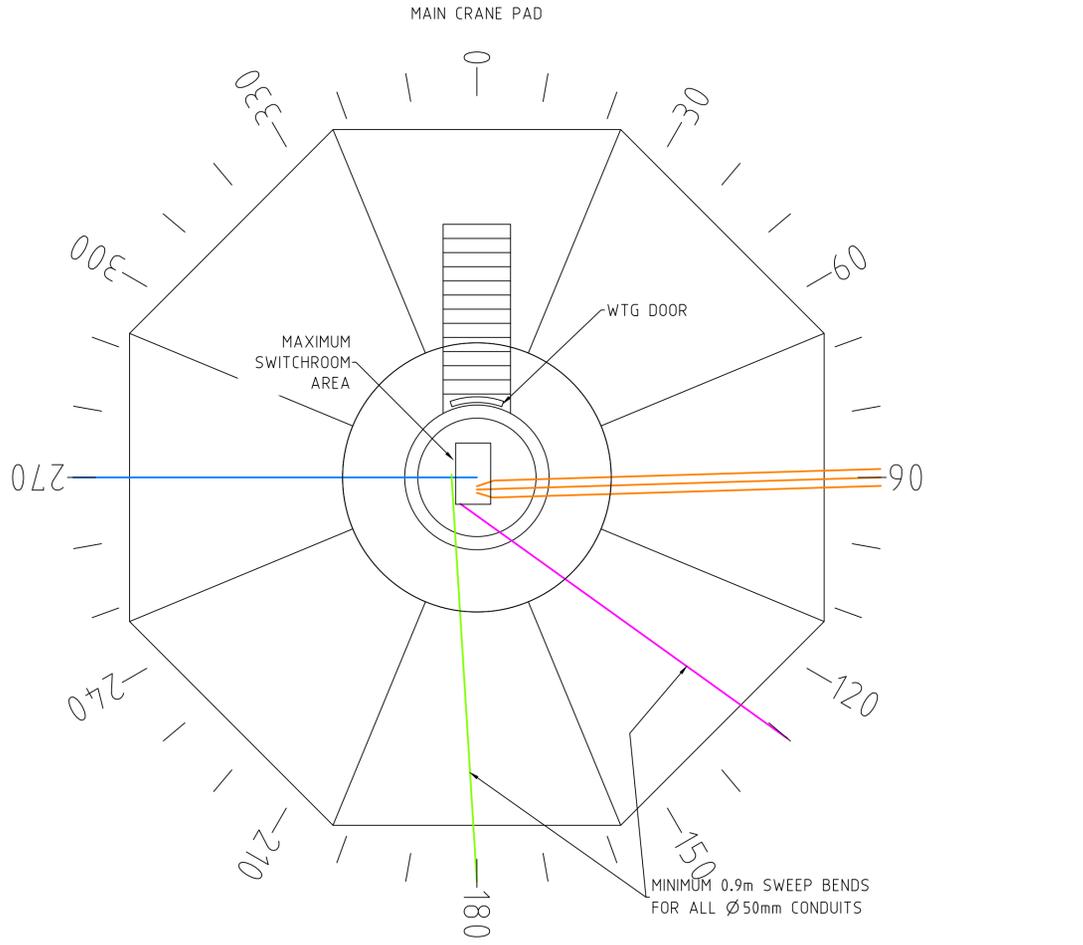
DOCUMENT No. <b>KRWF-E-1198-001</b>	DOC. REV. <b>A</b>
SIZE <b>A1</b>	
<b>VESTAS</b>	
KING ROCKS WIND FARM 33kV RETICULATION TRENCH CROSS SECTION LAYOUT	
PROJECT No. <b>5819</b>	DRAWING No. <b>5819-321-3021</b>
REV. <b>0</b>	

**LEGEND**

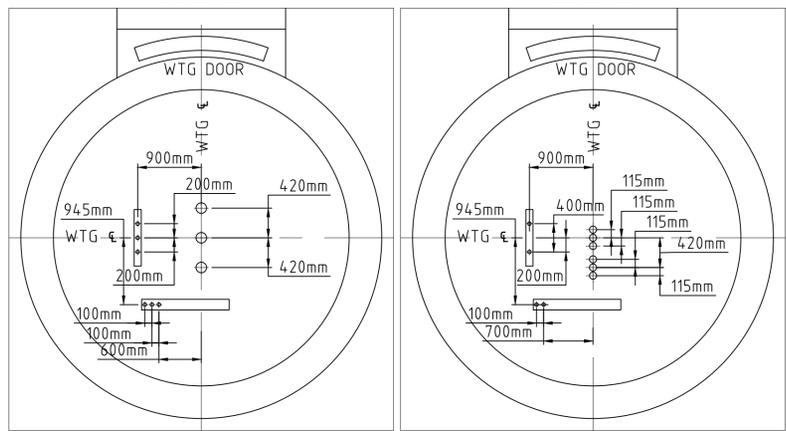
	50mm DIA. HD ORANGE CONDUIT
	50mm DIA. HD WHITE CONDUIT (FOR FO CABLE ONLY)
	100mm DIA. HD ORANGE CONDUIT
	150mm DIA. HD ORANGE CONDUIT

- NOTES:**
1. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
  2. CONDUIT DIMENSION TOLERANCE +/-50mm ALL DIRECTIONS.
  3. CONDUIT SPACING ARE MAXIMUM DISTANCES.
  4. INSTALLATION WORKS TO COMPLY WITH AS3000 AS APPLICABLE.
  5. HD CONDUITS SHALL COMPLY WITH AS2053.
  6. NO CUTTING OF REBAR PERMITTED FOR THE INSTALLATION OF CONDUIT. ENGINEER TO BE CONSULTED IF REINFORCEMENT IS AFFECTED BY THE INSTALLATION OF CONDUIT.
  7. CONDUIT TO BE SECURED AGAINST FLOTATION WHEN CASTING INTO THE WTG. FOUNDATION.
  8. CONDUIT SIZES & POSITIONS TO BE CONFIRMED BY SITE SUPERVISOR PRIOR TO WTG. CONCRETE POUR.
  9. ALL CONDUITS TO BE SEALED WITH PROPRIETARY CAP AT BOTH ENDS PRIOR TO CABLE INSTALLATION.
  10. ALL CONDUITS TO BE SEALED WITH FIRE RATED EXPANDING FOAM AFTER CABLE INSTALLATION.

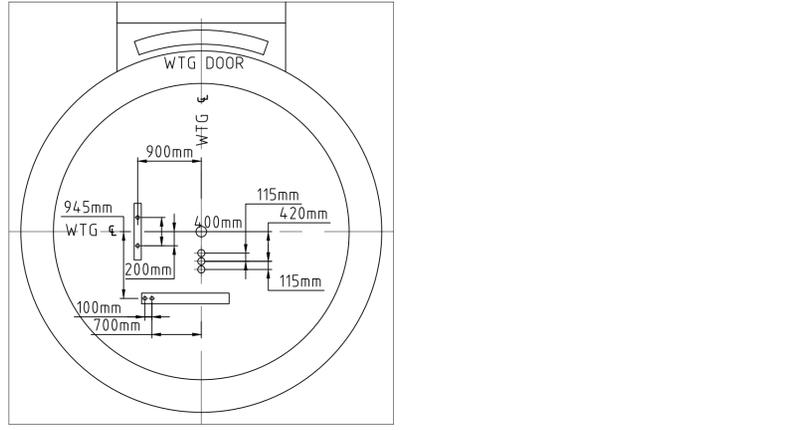
WTG NO.	CABLE 1 (deg)	MIN. CONDUIT RADIUS (mm)	WTG CONDUIT DIRECTION			MIN. CONDUIT	TYPE
			CABLE 2 (deg)	MIN. CONDUIT RADIUS (mm)	CABLE 3 (deg)		
WTG02	P0102	290	1090				1
WTG04	P0203	230	2150				1
WTG06	P0202	220	2500	P0203	310	2150	2
WTG07	P0101	190	1230	P0102	290	1090	2
WTG08	P0201	320	1450	P0202	50	2500	5
WTG09	P0200	160	1650	P0201	60	1450	4
WTG10	P0100	80	1450	P0101	350	1230	5
WTG14	P0402	120	2150				1
WTG15	P0400	110	1450	P0401	200	1230	5
WTG16	P0401	180	1230	P0402	90	2150	2
WTG17	P0300	170	1650	P0301	260	1450	4
WTG18	P0500	80	1450	P0501	170	2500	5
WTG19	P0301	110	1450	P0302	200	2500	5
WTG20	P0501	80	2500	P0502	170	2150	2
WTG21	P0302	170	2500	P0303	260	2150	2
WTG22	P0303	150	2150				1
WTG23	P0502	110	2150				1



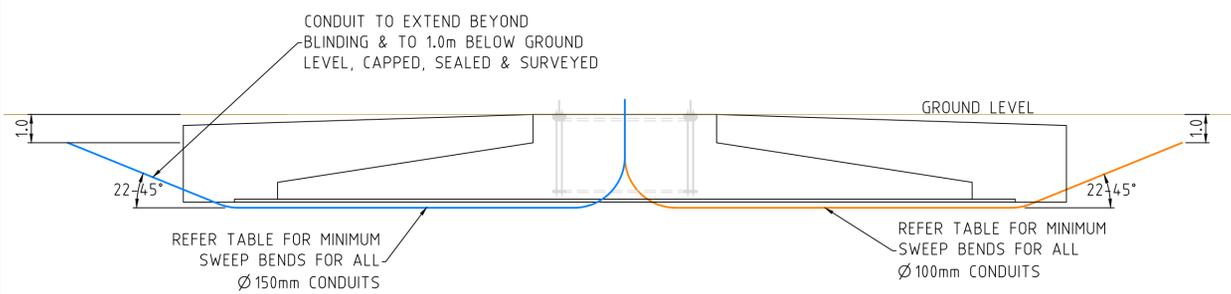
TYPE 1 WTG CONDUIT LAYOUT PLAN VIEW SCALE 1:50  
 TYPE 2 WTG CONDUIT LAYOUT PLAN VIEW SCALE 1:50



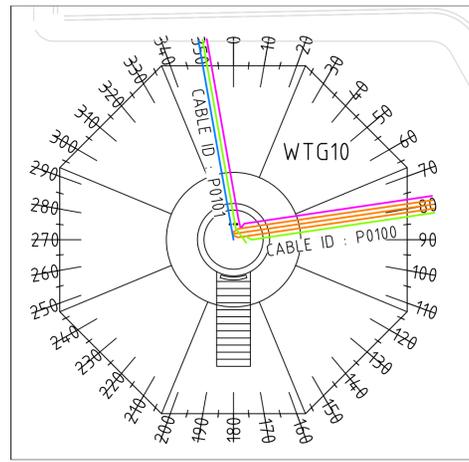
TYPE 3 WTG CONDUIT LAYOUT PLAN VIEW SCALE 1:50  
 TYPE 4 WTG CONDUIT LAYOUT PLAN VIEW SCALE 1:50



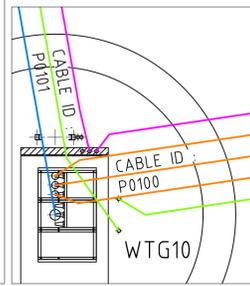
TYPE 5 WTG CONDUIT LAYOUT PLAN VIEW SCALE 1:50



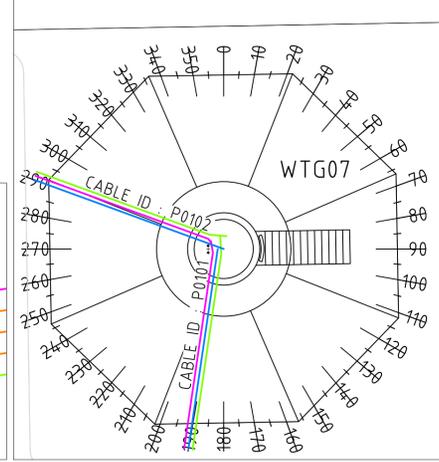
	THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.		5819-321-3021 TRENCH CROSS SECTION 5819-321-3001 33kV RETICULATION CABLE ALIGNMENT DRAWING NUMBER DRAWING TITLE		0 15.01.26 ISSUED FOR CONSTRUCTION REV DATE DESCRIPTION		MC JP RAJ DRN. CHK'D. C.E. CLIENT		SCALE 1:125 DRAWN MC 28.05.25 CHECKED KG 20.06.25 DESIGNED MC 28.05.25 RJE C.E. RAJ 28.05.25 CLIENT C.E. CLIENT P.E. CLIENT M.E.		ISSUED FOR CONSTRUCTION		DOCUMENT No. KRWF-E-1199-001 DOC. REV. A		SIZE A1	
	REFER TABLE FOR MINIMUM SWEEP BENDS FOR ALL Ø150mm CONDUITS		REFER TABLE FOR MINIMUM SWEEP BENDS FOR ALL Ø100mm CONDUITS		APPROVED DATE		APPROVALS		PROJECT No. 5819 DRAWING No. 5819-321-3030		PROJECT No. 5819 DRAWING No. 5819-321-3030		REV. 0			



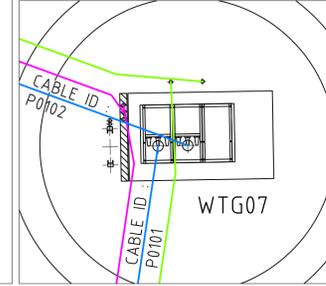
WTG10 DETAIL  
COLLECTOR GROUP 01  
SCALE 1:250



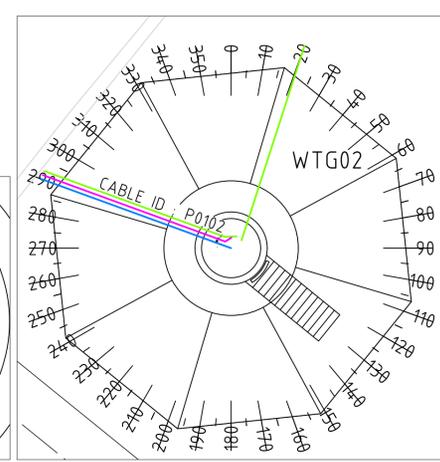
WTG10 SWITCH GEAR  
TYPE 5  
SCALE 1:50



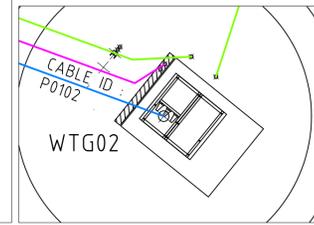
WTG07 DETAIL  
COLLECTOR GROUP 01  
SCALE 1:250



WTG07 SWITCH GEAR  
TYPE 2  
SCALE 1:50

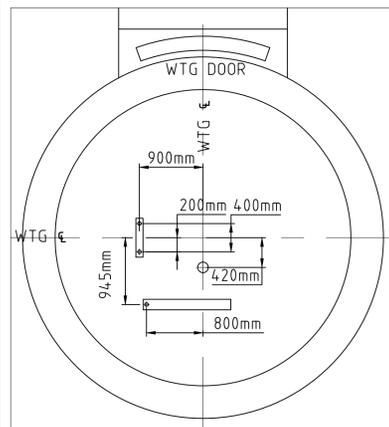


WTG02 DETAIL  
COLLECTOR GROUP 01  
SCALE 1:250

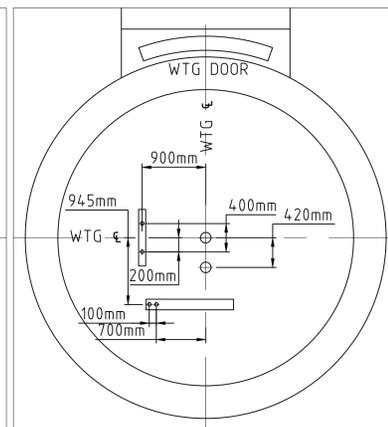


WTG02 SWITCH GEAR  
TYPE 1  
SCALE 1:50

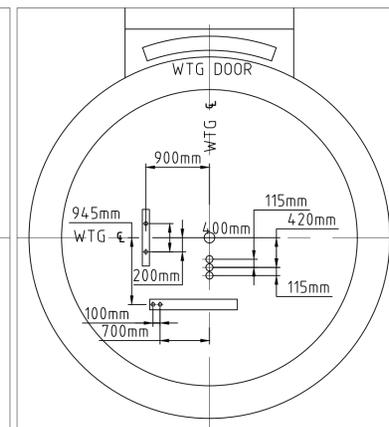
LEGEND	
	50mm DIA. HD ORANGE CONDUIT
	50mm DIA. HD WHITE CONDUIT (FOR FO CABLE ONLY)
	100mm DIA. HD ORANGE CONDUIT
	150mm DIA. HD ORANGE CONDUIT



WTG CONDUIT LAYOUT PLAN VIEW  
TYPE 1  
SCALE 1:50



WTG CONDUIT LAYOUT PLAN VIEW  
TYPE 2  
SCALE 1:50



WTG CONDUIT LAYOUT PLAN VIEW  
TYPE 5  
SCALE 1:50

- NOTES:
1. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
  2. CONDUIT DIMENSION TOLERANCE +/-50mm ALL DIRECTIONS.
  3. CONDUIT SPACING ARE MAXIMUM DISTANCES.
  4. INSTALLATION WORKS TO COMPLY WITH AS3000 AS APPLICABLE.
  5. HD CONDUITS SHALL COMPLY WITH AS2053.
  6. NO CUTTING OF REBAR PERMITTED FOR THE INSTALLATION OF CONDUIT. ENGINEER TO BE CONSULTED IF REINFORCEMENT IS AFFECTED BY THE INSTALLATION OF CONDUIT.
  7. CONDUIT TO BE SECURED AGAINST FLOTATION WHEN CASTING INTO THE WTG. FOUNDATION.
  8. CONDUIT SIZES & POSITIONS TO BE CONFIRMED BY SITE SUPERVISOR PRIOR TO WTG. CONCRETE POUR.
  9. ALL CONDUITS TO BE SEALED WITH PROPRIETARY CAP AT BOTH ENDS PRIOR TO CABLE INSTALLATION.
  10. ALL CONDUITS TO BE SEALED WITH FIRE RATED EXPANDING FOAM AFTER CABLE INSTALLATION.



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	DRN.	CHK'D.	C.E.	CLIENT
5819-321-3021	TRENCH CROSS SECTION	0	15.01.26	ISSUED FOR CONSTRUCTION	MC	JP	RAJ	
5819-321-3001	33kV RETICULATION CABLE ALIGNMENT							
REFERENCE DRAWINGS								
REVISIONS & APPROVALS								

SCALE 1:250		
DRAWN	MC	28.05.25
CHECKED	KG	20.06.25
DESIGNED	MC	28.05.25
RJE C.E.	RAJ	28.05.25
CLIENT C.E.		
CLIENT P.E.		
CLIENT M.E.		
APPROVED DATE		

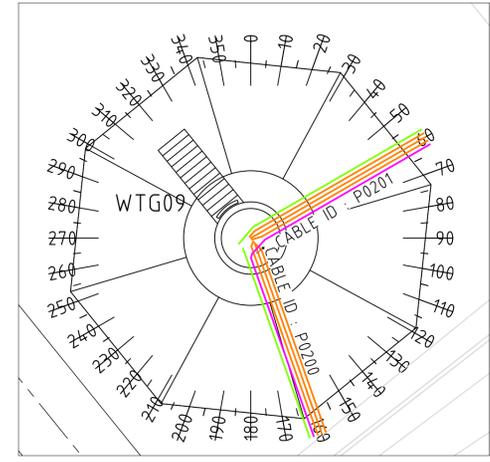
ISSUED FOR CONSTRUCTION

115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

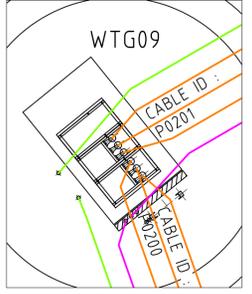
A Lighthouse Industries Company  
ACAD FILE: rPublish\_344721

DOCUMENT No.	KRWF-E-1199-002	DOC. REV.	A
SIZE	A1		
<p style="font-size: large; font-weight: bold;">VESTAS</p> <p>KING ROCKS WIND FARM 33kV RETICULATION WTG FOUNDATION CONDUIT ARRANGEMENT LAYOUT SHEET 02 OF 06</p>			
PROJECT No.	5819	DRAWING No.	5819-321-3031
REV.	0		

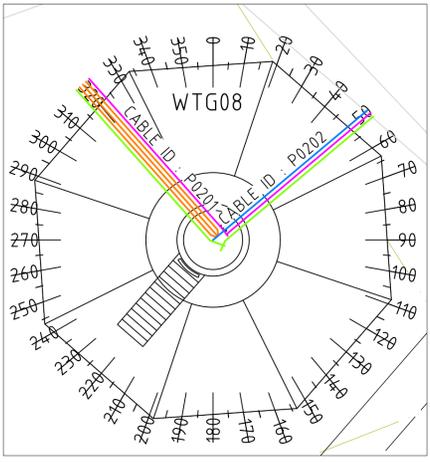
LEGEND	
	50mm DIA. HD ORANGE CONDUIT
	50mm DIA. HD WHITE CONDUIT (FOR FO CABLE ONLY)
	100mm DIA. HD ORANGE CONDUIT
	150mm DIA. HD ORANGE CONDUIT



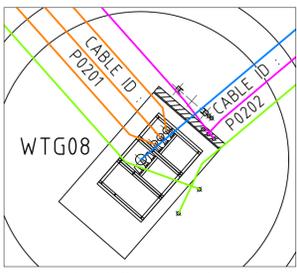
WTG09 DETAIL  
COLLECTOR GROUP 02  
SCALE 1:250



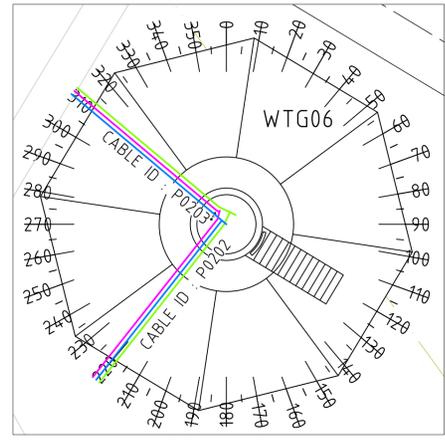
WTG09 SWITCH GEAR  
TYPE 4  
SCALE 1:50



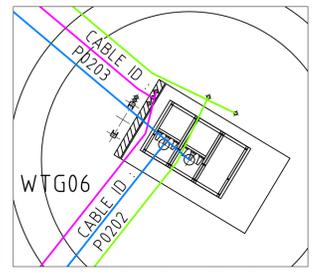
WTG08 DETAIL  
COLLECTOR GROUP 02  
SCALE 1:250



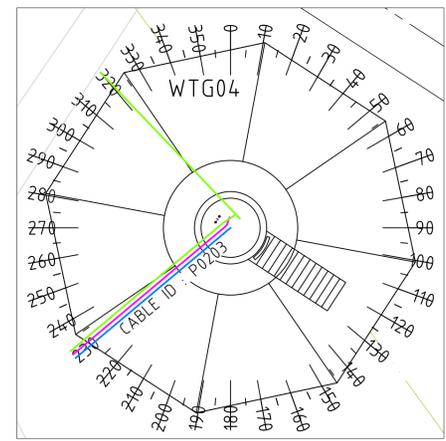
WTG08 SWITCH GEAR  
TYPE 5  
SCALE 1:50



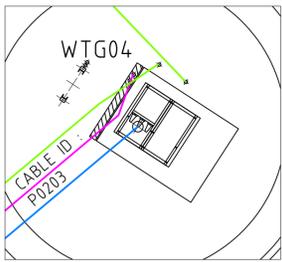
WTG06 DETAIL  
COLLECTOR GROUP 02  
SCALE 1:250



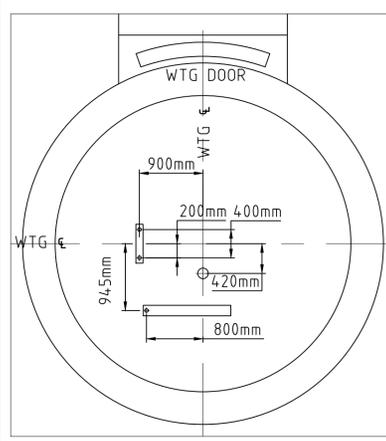
WTG06 SWITCH GEAR  
TYPE 2  
SCALE 1:50



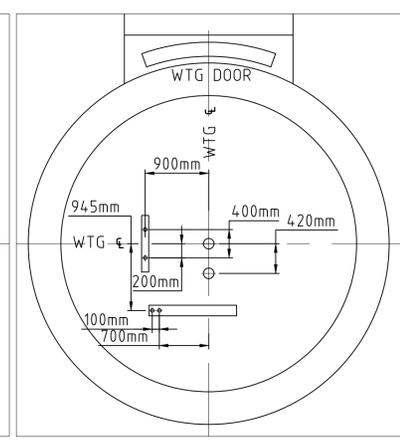
WTG04 DETAIL  
COLLECTOR GROUP 02  
SCALE 1:250



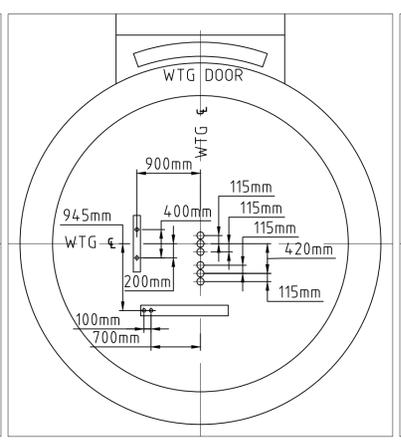
WTG04 SWITCH GEAR  
TYPE 1  
SCALE 1:50



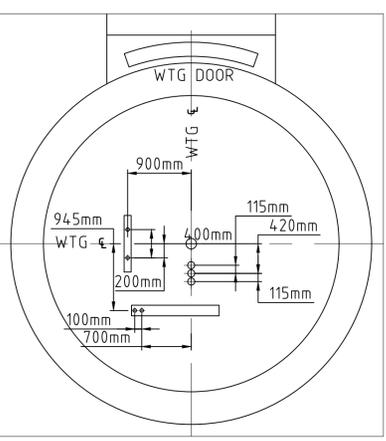
WTG CONDUIT LAYOUT PLAN VIEW  
TYPE 1  
SCALE 1:50



WTG CONDUIT LAYOUT PLAN VIEW  
TYPE 2  
SCALE 1:50



WTG CONDUIT LAYOUT PLAN VIEW  
TYPE 4  
SCALE 1:50



WTG CONDUIT LAYOUT PLAN VIEW  
TYPE 5  
SCALE 1:50

- NOTES:
1. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
  2. CONDUIT DIMENSION TOLERANCE +/-50mm ALL DIRECTIONS.
  3. CONDUIT SPACING ARE MAXIMUM DISTANCES.
  4. INSTALLATION WORKS TO COMPLY WITH AS3000 AS APPLICABLE.
  5. HD CONDUITS SHALL COMPLY WITH AS2053.
  6. NO CUTTING OF REBAR PERMITTED FOR THE INSTALLATION OF CONDUIT. ENGINEER TO BE CONSULTED IF REINFORCEMENT IS AFFECTED BY THE INSTALLATION OF CONDUIT.
  7. CONDUIT TO BE SECURED AGAINST FLOTATION WHEN CASTING INTO THE WTG. FOUNDATION.
  8. CONDUIT SIZES & POSITIONS TO BE CONFIRMED BY SITE SUPERVISOR PRIOR TO WTG. CONCRETE POUR.
  9. ALL CONDUITS TO BE SEALED WITH PROPRIETARY CAP AT BOTH ENDS PRIOR TO CABLE INSTALLATION.
  10. ALL CONDUITS TO BE SEALED WITH FIRE RATED EXPANDING FOAM AFTER CABLE INSTALLATION.

DOCUMENT No. KRWF-E-1199-003 DOC. REV. A



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	DRN.	CHK'D.	C.E.	CLIENT
5819-321-3021	TRENCH CROSS SECTION	0	15.01.26	ISSUED FOR CONSTRUCTION	MC	JP	RAJ	
5819-321-3001	33kV RETICULATION CABLE ALIGNMENT							

SCALE	1:250
DRAWN	MC 28.05.25
CHECKED	KG 20.06.25
DESIGNED	MC 28.05.25
RJE C.E.	RAJ 28.05.25
CLIENT C.E.	
CLIENT P.E.	
CLIENT M.E.	
APPROVED DATE	

**ISSUED FOR CONSTRUCTION**

**RJE Global**

115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

ACAD FILE: rPublish\_344721

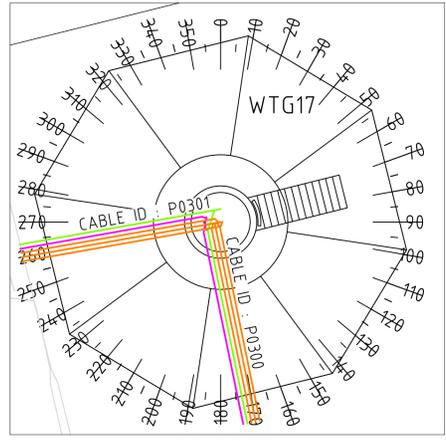
PROJECT No. 5819 DRAWING No. 5819-321-3032

SIZE A1

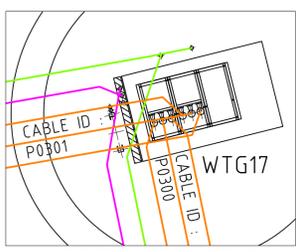
VESTAS  
KING ROCKS WIND FARM  
33kV RETICULATION  
WTG FOUNDATION CONDUIT ARRANGEMENT  
LAYOUT SHEET 03 OF 06

REV. 0

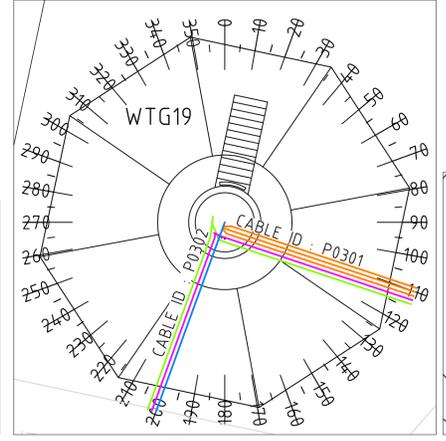
LEGEND	
	50mm DIA. HD ORANGE CONDUIT
	50mm DIA. HD WHITE CONDUIT (FOR FO CABLE ONLY)
	100mm DIA. HD ORANGE CONDUIT
	150mm DIA. HD ORANGE CONDUIT



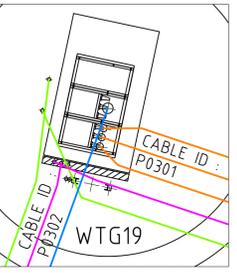
WTG17 DETAIL  
COLLECTOR GROUP 03  
SCALE 1:250



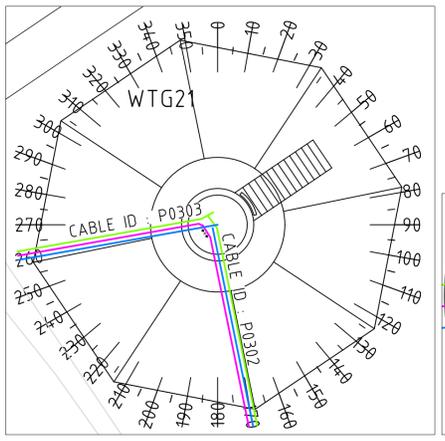
WTG17 SWITCH GEAR  
TYPE 4  
SCALE 1:50



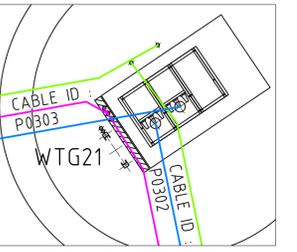
WTG19 DETAIL  
COLLECTOR GROUP 03  
SCALE 1:250



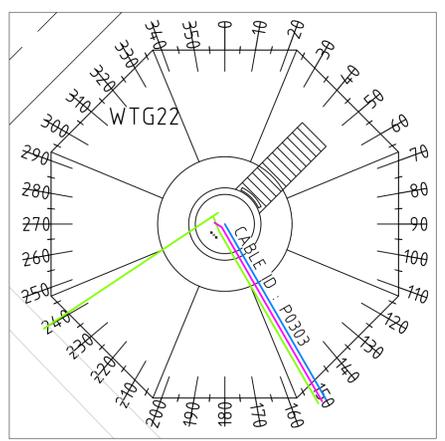
WTG19 SWITCH GEAR  
TYPE 5  
SCALE 1:50



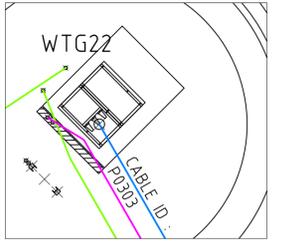
WTG21 DETAIL  
COLLECTOR GROUP 03  
SCALE 1:250



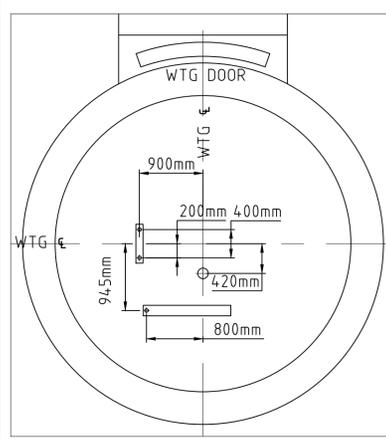
WTG21 SWITCH GEAR  
TYPE 2  
SCALE 1:50



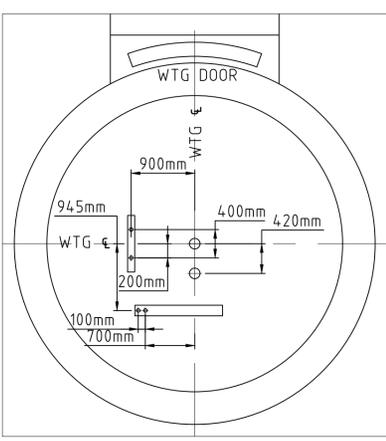
WTG22 DETAIL  
COLLECTOR GROUP 03  
SCALE 1:250



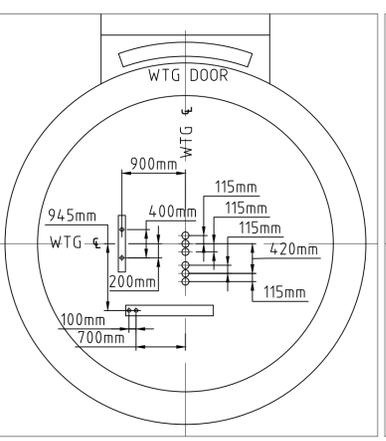
WTG22 SWITCH GEAR  
TYPE 1  
SCALE 1:50



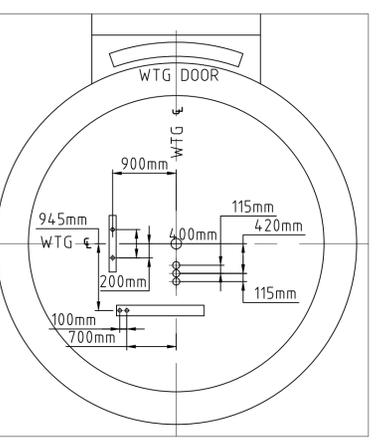
TYPE 1  
WTG CONDUIT LAYOUT PLAN VIEW  
SCALE 1:50



TYPE 2  
WTG CONDUIT LAYOUT PLAN VIEW  
SCALE 1:50



TYPE 4  
WTG CONDUIT LAYOUT PLAN VIEW  
SCALE 1:50



TYPE 5  
WTG CONDUIT LAYOUT PLAN VIEW  
SCALE 1:50

- NOTES:
1. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
  2. CONDUIT DIMENSION TOLERANCE +/-50mm ALL DIRECTIONS.
  3. CONDUIT SPACING ARE MAXIMUM DISTANCES.
  4. INSTALLATION WORKS TO COMPLY WITH AS3000 AS APPLICABLE.
  5. HD CONDUITS SHALL COMPLY WITH AS2053.
  6. NO CUTTING OF REBAR PERMITTED FOR THE INSTALLATION OF CONDUIT. ENGINEER TO BE CONSULTED IF REINFORCEMENT IS AFFECTED BY THE INSTALLATION OF CONDUIT.
  7. CONDUIT TO BE SECURED AGAINST FLOTATION WHEN CASTING INTO THE WTG. FOUNDATION.
  8. CONDUIT SIZES & POSITIONS TO BE CONFIRMED BY SITE SUPERVISOR PRIOR TO WTG. CONCRETE POUR.
  9. ALL CONDUITS TO BE SEALED WITH PROPRIETARY CAP AT BOTH ENDS PRIOR TO CABLE INSTALLATION.
  10. ALL CONDUITS TO BE SEALED WITH FIRE RATED EXPANDING FOAM AFTER CABLE INSTALLATION.

DOCUMENT No. KRWF-E-1199-004 DOC. REV. A



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	DRN.	CHK'D.	C.E.	CLIENT
5819-321-3021	TRENCH CROSS SECTION	0	15.01.26	ISSUED FOR CONSTRUCTION	MC	JP	RAJ	
5819-321-3001	33kV RETICULATION CABLE ALIGNMENT							

REFERENCE DRAWINGS		REVISIONS & APPROVALS	

SCALE 1:250		
DRAWN	MC	28.05.25
CHECKED	KG	20.06.25
DESIGNED	MC	28.05.25
RJE C.E.	RAJ	28.05.25
CLIENT C.E.		
CLIENT P.E.		
CLIENT M.E.		
APPROVED DATE		

**ISSUED FOR CONSTRUCTION**

**RJE Global**

115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

ACAD FILE: rPublish\_344721

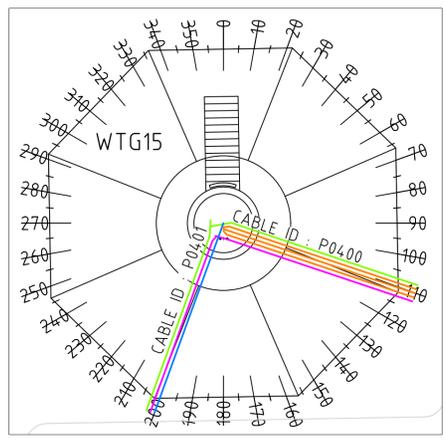
PROJECT No. 5819 DRAWING No. 5819-321-3033

SIZE A1

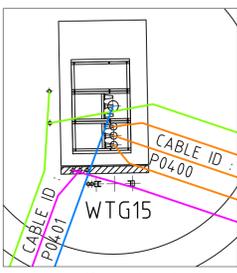
VESTAS  
KING ROCKS WIND FARM  
33kV RETICULATION  
WTG FOUNDATION CONDUIT ARRANGEMENT  
LAYOUT SHEET 04 OF 06

REV. 0

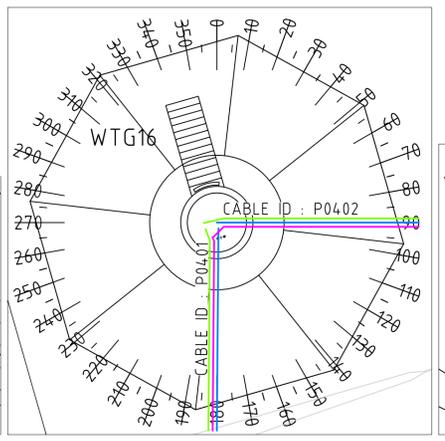
LEGEND	
	50mm DIA. HD ORANGE CONDUIT
	50mm DIA. HD WHITE CONDUIT (FOR FO CABLE ONLY)
	100mm DIA. HD ORANGE CONDUIT
	150mm DIA. HD ORANGE CONDUIT



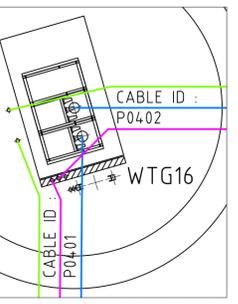
WTG15 DETAIL  
COLLECTOR GROUP 04  
SCALE 1:250



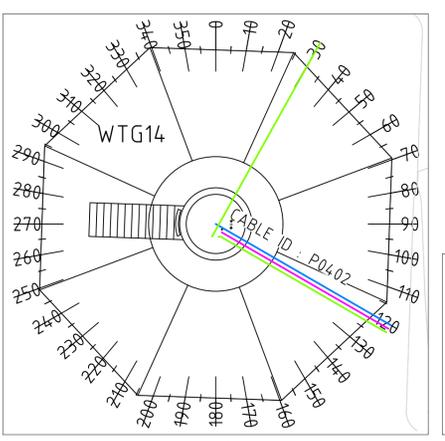
WTG15 SWITCH GEAR  
TYPE 5  
SCALE 1:50



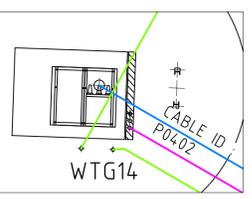
WTG16 DETAIL  
COLLECTOR GROUP 04  
SCALE 1:250



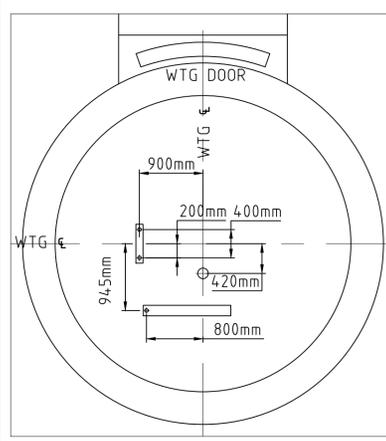
WTG16 SWITCH GEAR  
TYPE 2  
SCALE 1:50



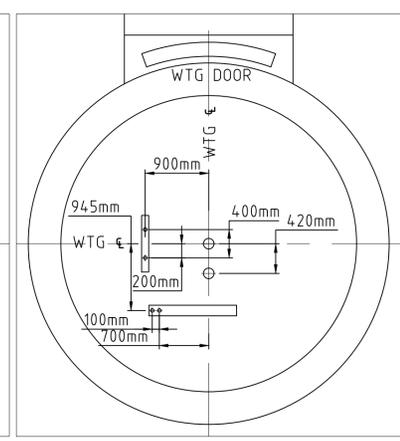
WTG14 DETAIL  
COLLECTOR GROUP 04  
SCALE 1:250



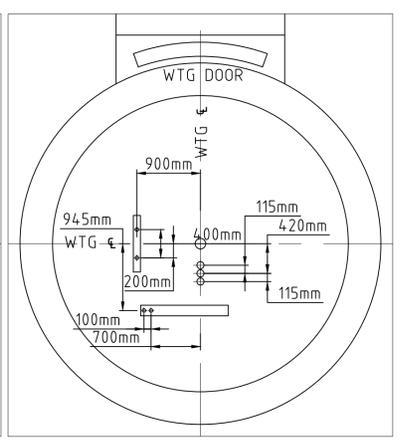
WTG14 SWITCH GEAR  
TYPE 1  
SCALE 1:50



TYPE 1  
WTG CONDUIT LAYOUT PLAN VIEW  
SCALE 1:50



TYPE 2  
WTG CONDUIT LAYOUT PLAN VIEW  
SCALE 1:50



TYPE 5  
WTG CONDUIT LAYOUT PLAN VIEW  
SCALE 1:50

- NOTES:
1. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
  2. CONDUIT DIMENSION TOLERANCE +/-50mm ALL DIRECTIONS.
  3. CONDUIT SPACING ARE MAXIMUM DISTANCES.
  4. INSTALLATION WORKS TO COMPLY WITH AS3000 AS APPLICABLE.
  5. HD CONDUITS SHALL COMPLY WITH AS2053.
  6. NO CUTTING OF REBAR PERMITTED FOR THE INSTALLATION OF CONDUIT. ENGINEER TO BE CONSULTED IF REINFORCEMENT IS AFFECTED BY THE INSTALLATION OF CONDUIT.
  7. CONDUIT TO BE SECURED AGAINST FLOTATION WHEN CASTING INTO THE WTG. FOUNDATION.
  8. CONDUIT SIZES & POSITIONS TO BE CONFIRMED BY SITE SUPERVISOR PRIOR TO WTG. CONCRETE POUR.
  9. ALL CONDUITS TO BE SEALED WITH PROPRIETARY CAP AT BOTH ENDS PRIOR TO CABLE INSTALLATION.
  10. ALL CONDUITS TO BE SEALED WITH FIRE RATED EXPANDING FOAM AFTER CABLE INSTALLATION.

DOCUMENT No. KRWF-E-1199-005 DOC. REV. A



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	DRN.	CHK'D.	C.E.	CLIENT
5819-321-3021	TRENCH CROSS SECTION	0	15.01.26	ISSUED FOR CONSTRUCTION	MC	JP	RAJ	
5819-321-3001	33kV RETICULATION CABLE ALIGNMENT							

SCALE	1:250
DRAWN	MC 28.05.25
CHECKED	KG 20.06.25
DESIGNED	MC 28.05.25
RJE C.E.	RAJ 28.05.25
CLIENT C.E.	
CLIENT P.E.	
CLIENT M.E.	
APPROVED DATE	

**ISSUED FOR CONSTRUCTION**

**RJE Global**

115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

ACAD FILE: rPublish\_344721

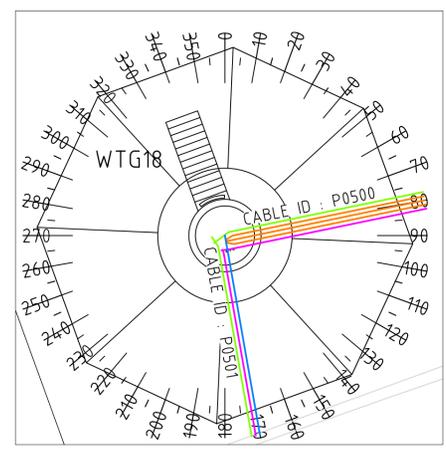
PROJECT No. 5819 DRAWING No. 5819-321-3034

SIZE A1

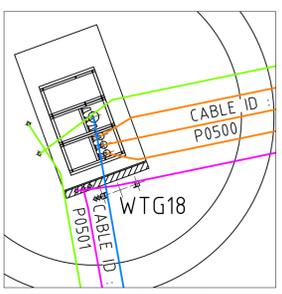
VESTAS  
KING ROCKS WIND FARM  
33kV RETICULATION  
WTG FOUNDATION CONDUIT ARRANGEMENT  
LAYOUT SHEET 05 OF 06

REV. 0

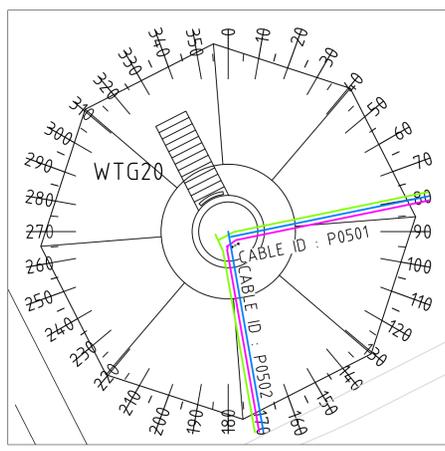
LEGEND	
	50mm DIA. HD ORANGE CONDUIT
	50mm DIA. HD WHITE CONDUIT (FOR FO CABLE ONLY)
	100mm DIA. HD ORANGE CONDUIT
	150mm DIA. HD ORANGE CONDUIT



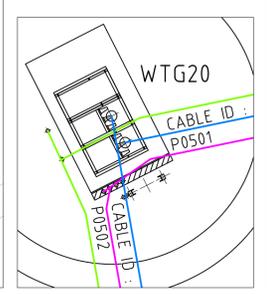
WTG18 DETAIL  
COLLECTOR GROUP 05  
SCALE 1:250



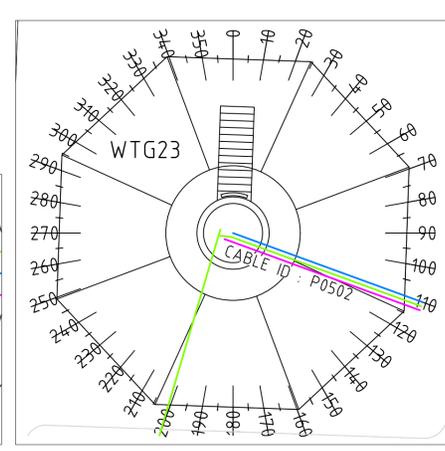
WTG18 SWITCH GEAR  
TYPE 5  
SCALE 1:50



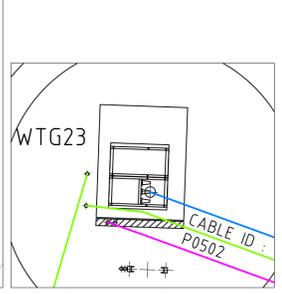
WTG20 DETAIL  
COLLECTOR GROUP 05  
SCALE 1:250



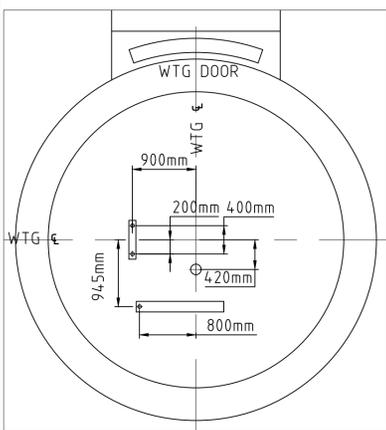
WTG20 SWITCH GEAR  
TYPE 2  
SCALE 1:50



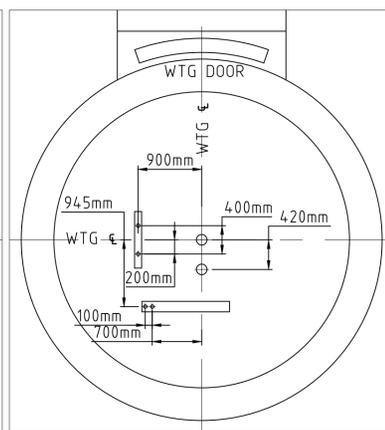
WTG23 DETAIL  
COLLECTOR GROUP 05  
SCALE 1:250



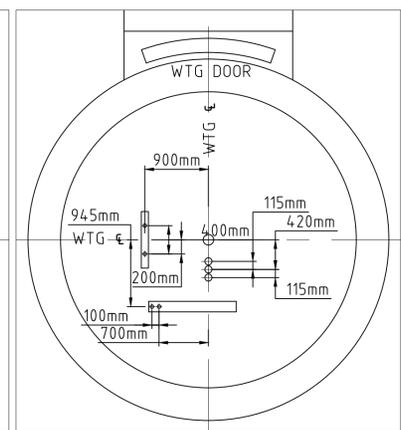
WTG23 SWITCH GEAR  
TYPE 1  
SCALE 1:50



TYPE 1  
WTG CONDUIT LAYOUT PLAN VIEW  
SCALE 1:50



TYPE 2  
WTG CONDUIT LAYOUT PLAN VIEW  
SCALE 1:50



TYPE 5  
WTG CONDUIT LAYOUT PLAN VIEW  
SCALE 1:50

- NOTES:
1. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
  2. CONDUIT DIMENSION TOLERANCE +/-50mm ALL DIRECTIONS.
  3. CONDUIT SPACING ARE MAXIMUM DISTANCES.
  4. INSTALLATION WORKS TO COMPLY WITH AS3000 AS APPLICABLE.
  5. HD CONDUITS SHALL COMPLY WITH AS2053.
  6. NO CUTTING OF REBAR PERMITTED FOR THE INSTALLATION OF CONDUIT. ENGINEER TO BE CONSULTED IF REINFORCEMENT IS AFFECTED BY THE INSTALLATION OF CONDUIT.
  7. CONDUIT TO BE SECURED AGAINST FLOTATION WHEN CASTING INTO THE WTG. FOUNDATION.
  8. CONDUIT SIZES & POSITIONS TO BE CONFIRMED BY SITE SUPERVISOR PRIOR TO WTG. CONCRETE POUR.
  9. ALL CONDUITS TO BE SEALED WITH PROPRIETARY CAP AT BOTH ENDS PRIOR TO CABLE INSTALLATION.
  10. ALL CONDUITS TO BE SEALED WITH FIRE RATED EXPANDING FOAM AFTER CABLE INSTALLATION.

DOCUMENT No. KRFW-E-1199-006 DOC. REV. A



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	DRN.	CHK'D.	C.E.	CLIENT
5819-321-3021	TRENCH CROSS SECTION	0	15.01.26	ISSUED FOR CONSTRUCTION	MC	JP	RAJ	
5819-321-3001	33kV RETICULATION CABLE ALIGNMENT							

SCALE	1:250
DRAWN	MC 28.05.25
CHECKED	KG 20.06.25
DESIGNED	MC 28.05.25
RJE C.E.	RAJ 28.05.25
CLIENT C.E.	
CLIENT P.E.	
CLIENT M.E.	
APPROVED DATE	

**ISSUED FOR CONSTRUCTION**

115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

ACAD FILE: rPublish\_34472\

PROJECT No. 5819 DRAWING No. 5819-321-3035

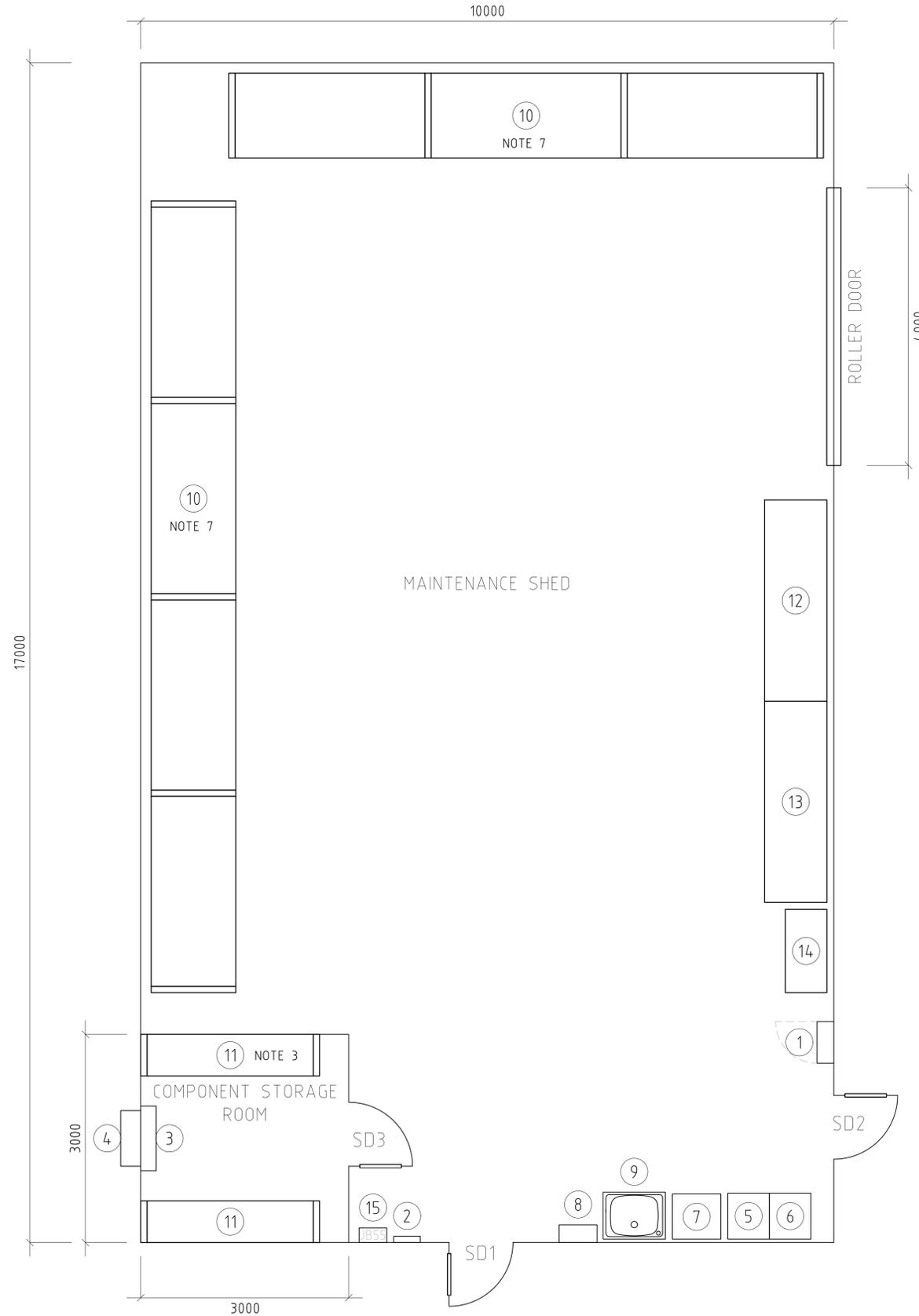
SIZE A1

VESTAS  
KING ROCKS WIND FARM  
33kV RETICULATION  
WTG FOUNDATION CONDUIT ARRANGEMENT  
LAYOUT SHEET 06 OF 06

REV. 0

EQUIPMENT LIST				
ITEM	DESCRIPTION	QTY	MANUFACTURER	DIMENSIONS HxWxD
1	LIGHT AND SMALL POWER DISTRIBUTION BOARD	1	NHP	864X600X240
2	SECURITY PANEL	1	BOSCH	260X385X90
3	WALL MOUNTED INDOOR AIR CONDITIONING UNIT	1	FUJITSU	ASTG12KMTC
4	GROUND MOUNTED OUTDOOR AIR CONDITIONING UNIT	1	FUJITSU	AOTG12KMTC
5	CLOTHES WASHING MACHINE -SPACE	1	SUPPLIED BY CLIENT	-
6	CLOTHES DRYER -SPACE	1	SUPPLIED BY CLIENT	-
7	ICE MACHINE -SPACE	1	SUPPLIED BY CLIENT	-
8	PORTABLE GRAVITY FED EYE WASH STATION	1	NEXT DAY SAFETY	-
9	WASH TROUGH	1	-	-
10	DEEP PALLET RACKING	7	-	6000X2740X1220
11	DEEP SHELVING	2	-	2100X2400X600
12	DIRTY WORKBENCH	1	-	900X2900X900
13	CLEAN ASSEMBLY WORKBENCH	1	-	900X2900X900
14	SHELVING FOR TOOLS	1	-	1800X1200X600
15	BUILDING SERVICES JUNCTION BOX - JB55	1	RITTELL	600X600X250

- CONSTRUCTION NOTES:
1. CONCRETE FLOORING SURFACE TO BE SEALED APPROPRIATE FOR FORKLIFT USE
  2. PEDESTRIAN ACCESS DOORS TO HAVE GLASS VIEWING PANE.
  3. PARTICLE BOARD INSERTS SUPPLIED FOR EACH LEVEL OF SHELVING.
  4. BIRD NETTING TO BE INSTALLED THROUGHOUT ROOF RAFTERS, PURLINS AND BATTENS.
  5. COMPONENT STORAGE ROOM 2400MM CEILING HEIGHT.
  6. WAREHOUSE CEILING HEIGHT MINIMUM 6000MM.
  7. DECK MESH TO BE INSTALLED ON ALL RACK LEVELS EXCEPT GROUND LEVEL.



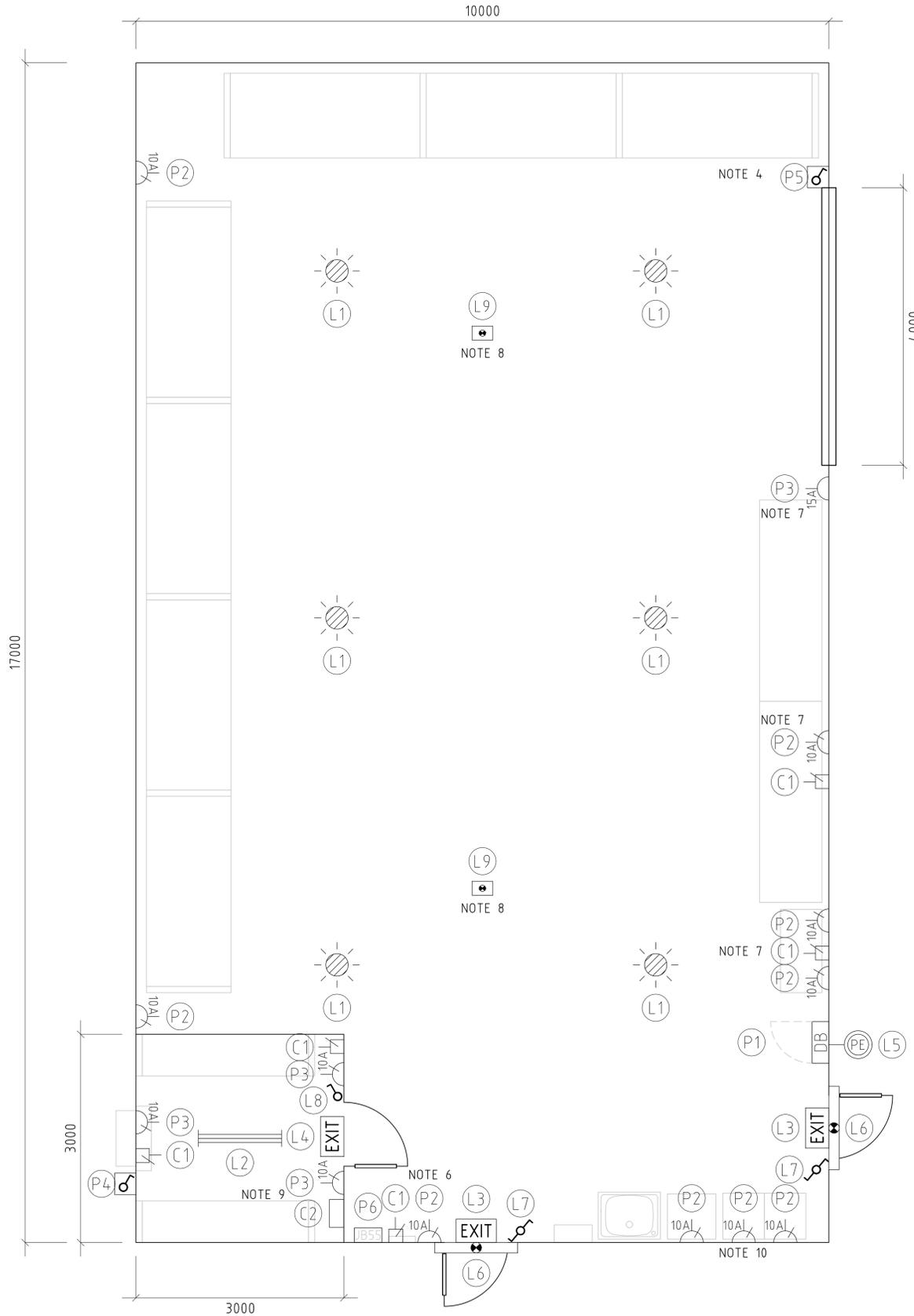
	THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.	DRAWING NUMBER: 5819 DRAWING TITLE: 5819-341-5550		SCALE: 1:40			115 MORPHETT ROAD MORPHETTVILLE, SA, 5043 TEL +61 8 8300 9500 FAX +61 8 8300 9501 EMAIL enquiries@rjeglobal.com	DOCUMENT NUMBER: KRWF-E-1220-001	DOC. REV. A
		PROJECT No. 5819 DRAWING No. 5819-341-5550		APPROVALS				PROJECT No. 5819 DRAWING No. 5819-341-5550	REV. 0

POWER LIST				
ITEM	DESCRIPTION	QTY	MANUFACTURE	PART No.
P1	LIGHT AND SMALL POWER DISTRIBUTION BOARD	1	NHP	CONCEPT PREMIER
P2	10A TWIN GPO, WP, SURFACE MOUNTED, IP54	9	CLIPSAL	WSC227F2-RG
P3	10A TWIN GPO, FLUSH MOUNTED 2000 SERIES	3	CLIPSAL	2025-WE
P4	20A SINGLE PHASE ISOLATOR, SURFACE MOUNTED, IP66	2	CLIPSAL	EY56SW120
P5	15A SINGLE PHASE GPO 56 SERIES	1	NHP	56C315D-GY
P6	JUNCTION BOX - JB55	1	NHP	-

LIGHTING LIST				
ITEM	DESCRIPTION	QTY	MANUFACTURER	PART No.
L1	200W LED HIGHBAY SUSPENDED AT 6m ABOVE FLOOR	6	PIERLITE	ECOHB200W850LS
L2	1200mm LED BATTEN - CEILING SURFACE MOUNT	1	CLEVERTRONICS	EPIC-1200
L3	40mm LED EXIT LIGHT, MOUNT ABOVE DOOR	2	CLEVERTRONICS	CJWELED-40
L4	LED EXIT LIGHT, CEILING SURFACE MOUNTED	1	CLEVERTRONICS	CCFLED
L5	PHOTOELECTRIC CELL SUNSET SWITCH	1	CLIPSAL	WS226SSR/3
L6	1200mm WEATHER PROOF LED EMERGENCY BATTEN	2	CLEVERTRONICS	ARGO-1200-LP
L7	10A, SURFACE MOUNTED, LIGHT SWITCH, IP66, 2-WAY	2	CLIPSAL	WS226-RG
L8	10A LIGHT SWITCH, FLUSH MOUNTED	1	CLIPSAL	2031VA-WE
L9	EMERGENCY LED SURFACE MOUNT WP IP65	2	CLEVERTRONICS	CLIFE-SM-WP

COMMUNICATIONS LIST				
ITEM	DESCRIPTION	QTY	MANUFACTURER	PART No.
C1	RJ45 TWIN DOUBLE OUTLET	5	CLIPSAL	2032VHJ+30RJ45SMA6CWE
C2	NETWORK SWITCH ENCLOSURE	1	RITTELL	-

- CONSTRUCTION NOTES:
- GPOS TO BE MOUNTED AT 400mm AFFL (OR EQUIV) UNLESS OTHRWISE NOTED
  - LIGHT SWITCHES TO BE MOUNTED AT 1300mm AFFL
  - PE CELL ADJUSTABLE FOR TIME SETTINGS AND LUX SETTINGS (20-500LUX)
  - ISOLATOR PROVIDED FOR ROLLER DOOR ELECTRIC MOTOR (AT MOTOR HEIGHT)
  - DISTRIBUTION BOARD HEIGHT 1800mm TO THE TOP OF PANEL
  - UPS GPO FOR SECURITY PANEL
  - GPOS TO BE MOUNTED ABOVE WORKBENCH TOP
  - EMERGENCY LIGHTING MOUNTED TO STEEL TRUSS
  - DEDICATED GPO FOR NETWORK SWITCH MOUNTED AT 2000MM
  - GPOS TO BE MOUNTED ABOVE ICE MACHINE, CLOTHES WASHER & DRYER MACHINES



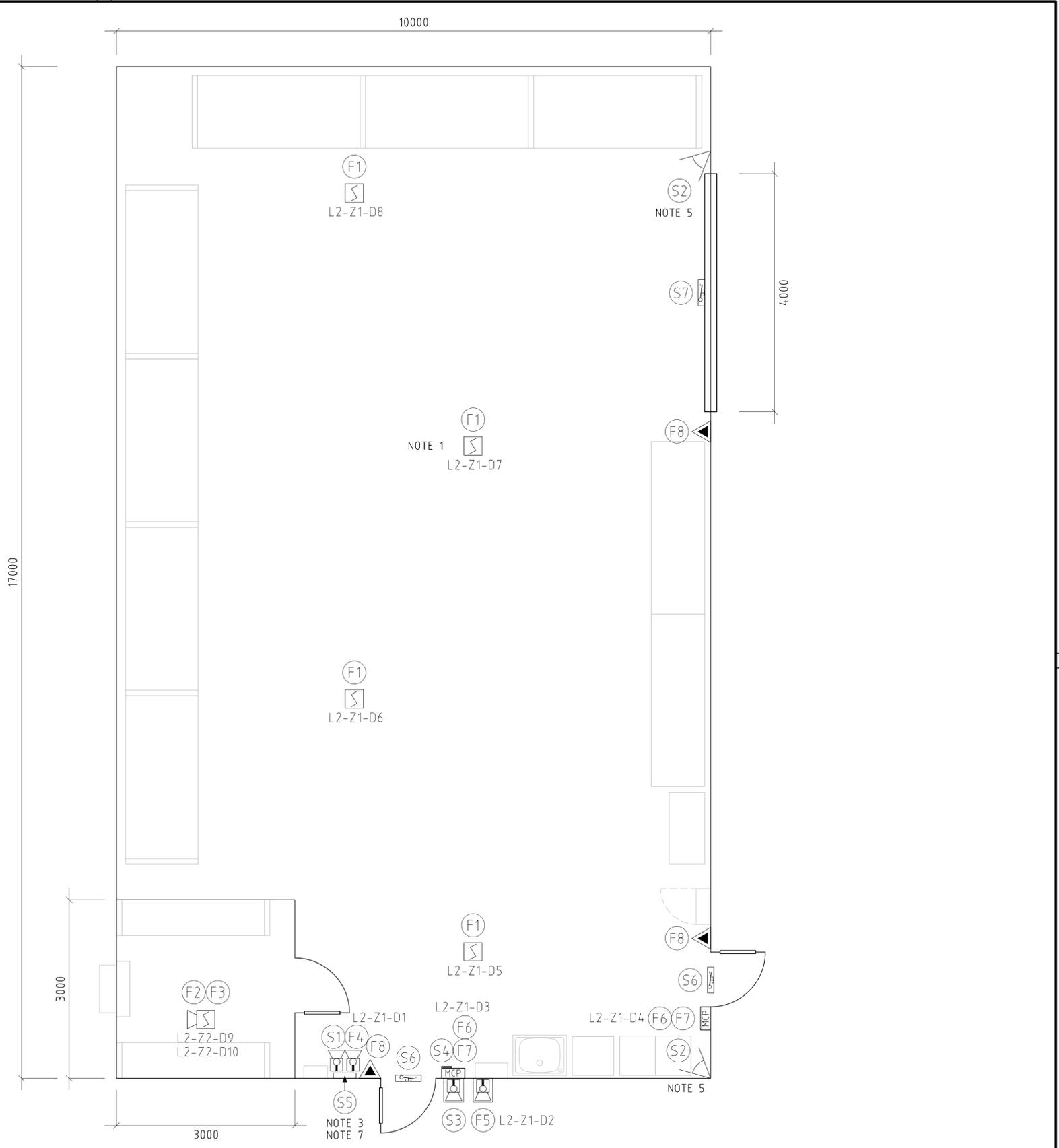
	THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.	DRAWING NUMBER		DRAWING TITLE		REV		DATE		DESCRIPTION		DRN		CHK'D		C.E.		CLIENT		APPROVED DATE		ACAD FILE:	
		REFERENCE DRAWINGS		REVISIONS & APPROVALS		APPROVALS		PROJECT No.		DRAWING No.		DOC. REV.		SIZE									
		115 MORPHETT ROAD MORPHETTVILLE, SA, 5043 TEL +61 8 8300 9500 FAX +61 8 8300 9501 EMAIL enquiries@rjeglobal.com		SCALE 1:40 DRAWN JCR 30.10.25 CHECKED ATH 30.10.25 DESIGNED ATH 30.10.25 RJE C.E. RAJ 30.10.25 CLIENT C.E. CLIENT P.E. CLIENT M.E.		ISSUED FOR CONSTRUCTION		DOCUMENT NUMBER KRWF-E-1221-001		DOC. REV. A		SIZE A1											
PROJECT No. 5819		DRAWING No. 5819-341-5551		PROJECT KING ROCKS WIND FARM O&M BUILDING +Z03 O&M WAREHOUSE - LIGHT & SMALL POWER LAYOUT		REV. 0																	

FIRE SYSTEM LIST							
ITEM	LOOP #	ZONE #	SENSOR #	AREA	ITEM DESCRIPTION	MAKE & MODEL	QTY
F1	L2	Z1	D5,D6,D7,D8	WAREHOUSE	PHOTO OPTICAL SMOKE DETECTOR	AMPAC 4106-2001	4
F2	L2	Z2	D9	STORE ROOM	PHOTO OPTICAL SMOKE DETECTOR	AMPAC 4106-6002	1
F3	L2	Z2	D10	STORE ROOM	INDOOR STROBE SOUNDER - BASE	AMPAC 201-0110	1
F4	L2	Z1	D1	WAREHOUSE	IP65 STROBE SOUNDER	AMPAC 4107-6003	1
F5	L2	Z1	D2	EXTERNAL	IP65 STROBE SOUNDER	AMPAC 4107-6003	1
F6	L2	Z1	D3,D4	WAREHOUSE	WATERPROOF MANUAL CALL POINT	AMPAC 4105-2002	2
F7	L2	Z1	-	WAREHOUSE	MCP TRANSPARENT COVER	AMPAC 4105-2003	2
F8	-	-	-	WAREHOUSE	FIRE EXTINGUISHER	ABC POWDER 9KG	3

SECURITY SYSTEM LIST				
ITEM	DESCRIPTION	QTY	MANUFACTURE	PART No.
S1	INDOOR PIEZO STYLE SCREAMER	1	BOSCH	HC-P2-1
S2	MOTION SENSOR PIR	2	BOSCH	ISC-BPR2-W12
S3	STROBE SOUNDER EXTERNAL	1	SECOR	WP06
S4	KEYPAD	1	BOSCH	CP700B
S5	SECURITY PANEL	1	BOSCH	SOLUTION 6000
S6	REED SWITCH	2	TAG	TAGS-ADHBR
S7	REED SWITCH	1	TAG	TAGS-OHD-RB

CONSTRUCTION NOTES:

1. DETECTOR SPACED 750mm AWAY FROM HIGHEST POINT IN ACCORDANCE WITH AS 1670.1, 5.1.3
2. SMOKE DETECTOR UNIT MOUNTED TO SHED STRUCTURE
3. SECURITY PANEL WALL MOUNTED AT 2000mm AFFL
4. ALARM KEYPAD MOUNTED AT 1600mm AFFL
5. PIR MOTION SENSORS MOUNTED 2000mm AFFL
6. FIRE DETECTION LOOP, SECURITY COMS TERMINATED IN JB55
7. INTERNAL SECURITY AND FIRE STROBE SOUNDERS TO BE MOUNTED ABOVE SECURITY PANEL
8. REFER TO DRG 5819-325-5060 FOR FIRE SCHEMATIC DRAWING



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	DRN.	CHK'D.	C.E.	CLIENT
0	12.01.26	ISSUED FOR CONSTRUCTION	JCR	ATH	RAJ			
REFERENCE DRAWINGS					REVISIONS & APPROVALS			

SCALE	1:40
DRAWN	JCR 30.10.25
CHECKED	ATH 30.10.25
DESIGNED	ATH 30.10.25
RJE C.E.	RAJ 30.10.25
CLIENT C.E.	
CLIENT P.E.	
CLIENT M.E.	
APPROVED DATE	

**ISSUED FOR CONSTRUCTION**

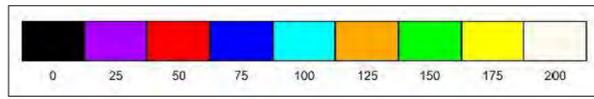
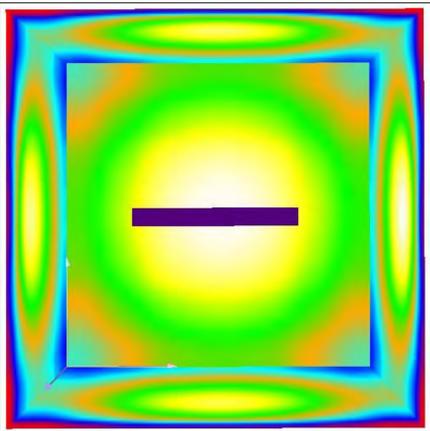
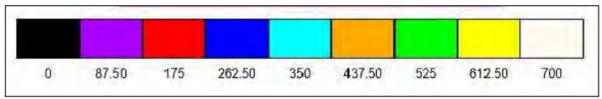
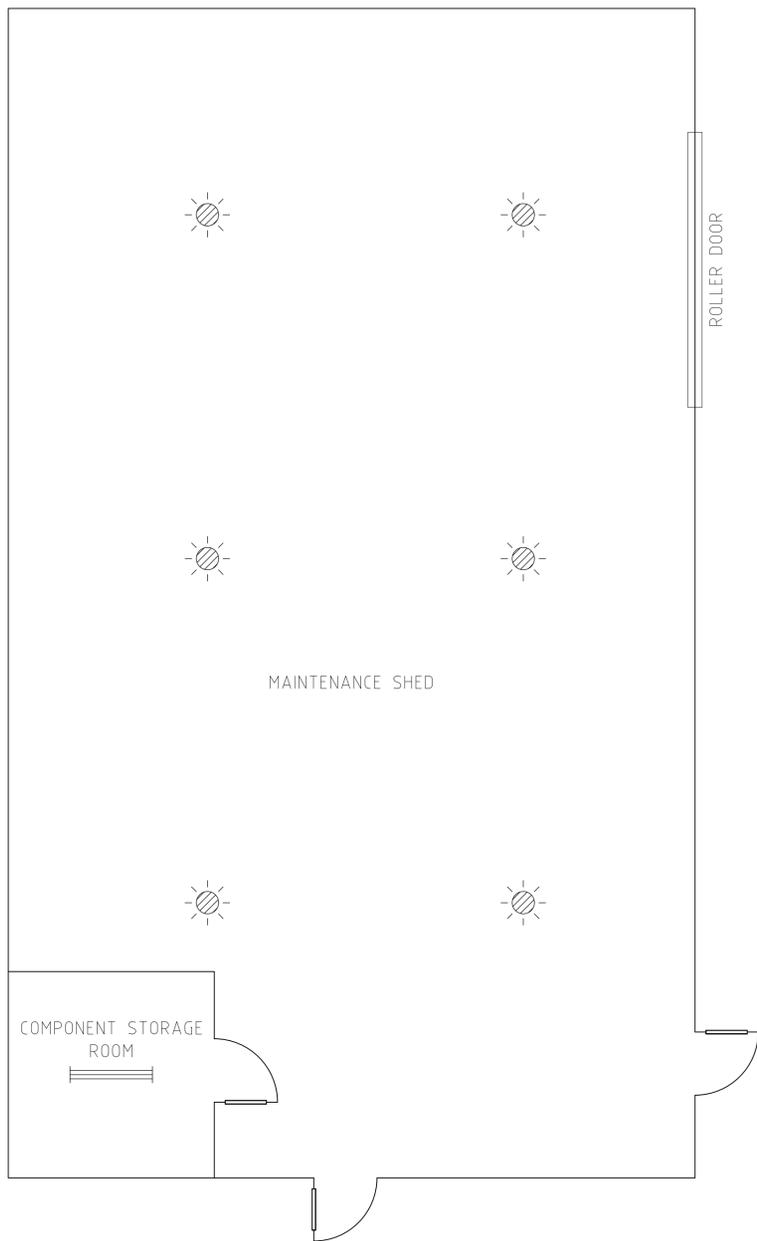
**RJE Global**  
A Lighthouse Industries Company

115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com

DOCUMENT NUMBER	DOC. REV.
KRWF-E-1222-001	A
<b>VESTAS</b>	
KING ROCKS WIND FARM	
O&M BUILDING +Z03	
O&M WAREHOUSE - FIRE DETECTION & SECURITY LAYOUT	
PROJECT No.	DRAWING No.
5819	5819-341-5552
REV.	0

LUX LEVELS

AREA #	AREA	AVE LUX (CALCULATED)	CLASSIFICATION (AS PER AS/NZS 1680-2.4)	SUGGESTED AVE (AS PER CLASSIFICATION COLUMN)
1	SHED AREA	635 Lux	TABLE E1 5.1 - ASSEMBLY, MANUFACTURE, INSPECTION	400 Lux
2	STORAGE ROOM	258 Lux	TABLE D1 8.2(b) - STOREROOMS, , MEDIUM OR FINE MATERIAL	160 Lux



- NOTES:
- ALL CALCULATIONS PERFORMED IN DAILUX 4.13
  - ALL CALCULATIONS CALCULATED AT PERMISSIBLE WORKING HEIGHT OF 750mm AFFL
  - SHED AREA LIGHTS POSITIONED 6000mm ABOVE AFFL FOR CALCULATION



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	JCR	ATH	RAJ	DRN.	CHK'D	C.E.	CLIENT
0	12.01.26	ISSUED FOR CONSTRUCTION	JCR	ATH	RAJ						
REFERENCE DRAWINGS		REVISIONS & APPROVALS				APPROVALS					

SCALETNS		
DRAWN	JCR	04.11.25
CHECKED	ATH	04.11.25
DESIGNED	ATH	04.11.25
RJE C.E.		
CLIENT C.E.		
CLIENT P.E.		
CLIENT M.E.		
APPROVED DATE		

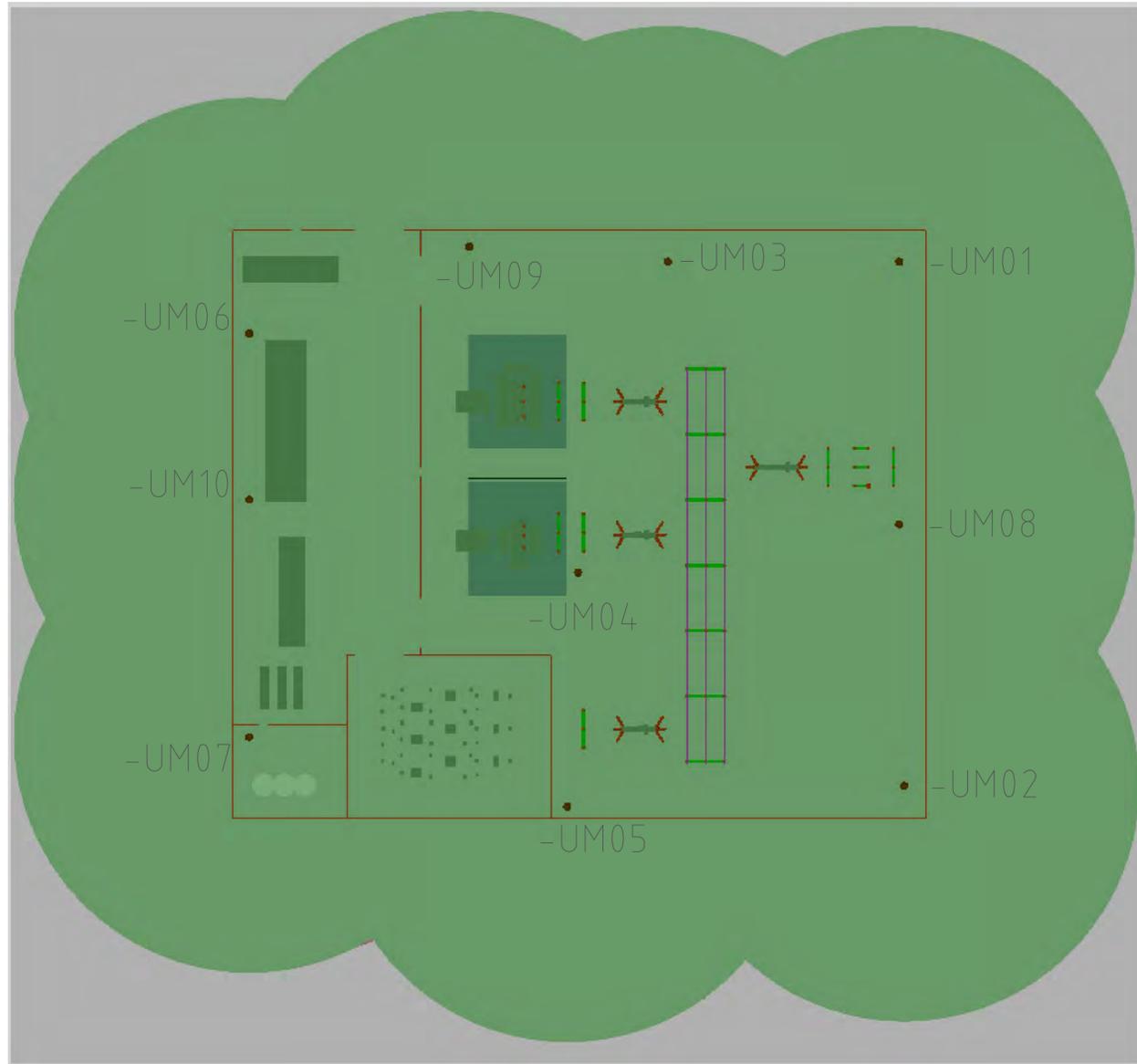
**ISSUED FOR CONSTRUCTION**

**RJE Global**

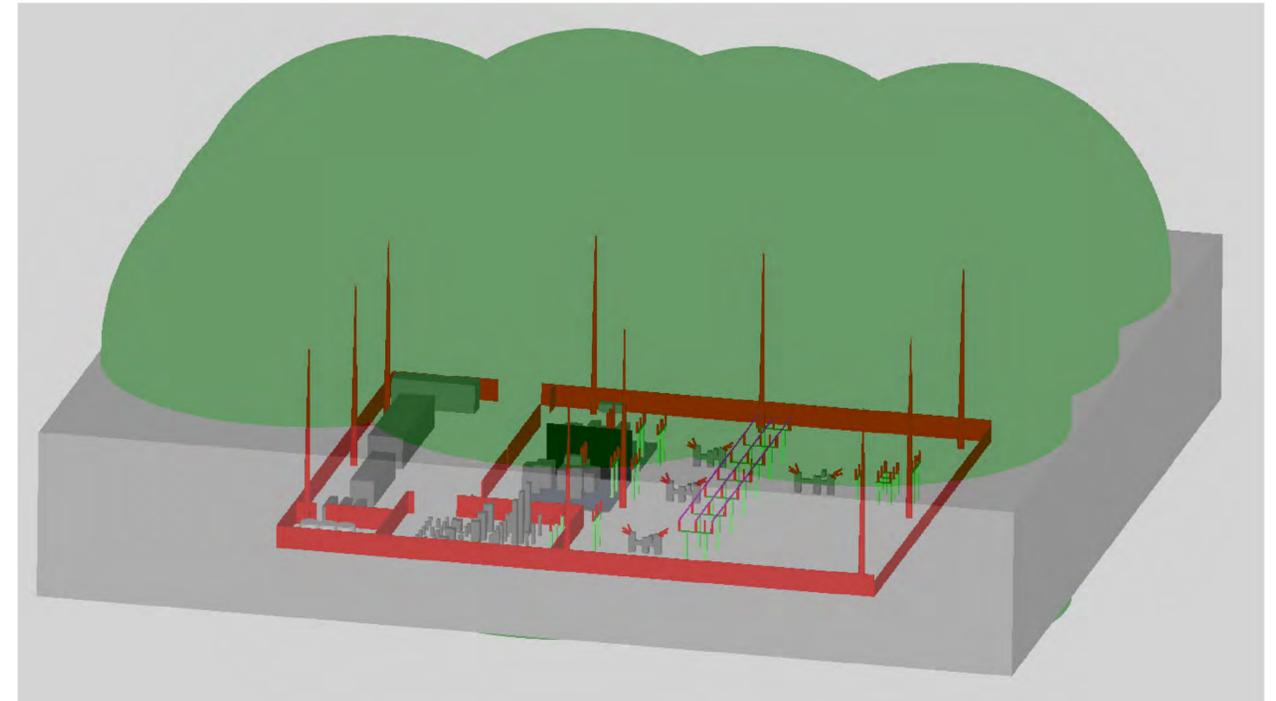
115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjglobal.com

ACAD FILE:

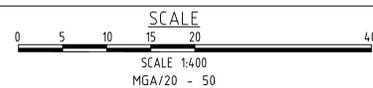
DOCUMENT NUMBER	KRWF-E-1223-001	DOC. REV.	A
SIZE	A1		
VESTAS			
KING ROCKS WIND FARM			
O&M BUILDING +Z03			
O&M WAREHOUSE - LIGHTING CALCULATION LAYOUT			
PROJECT No.	5819	DRAWING No.	5819-341-5553
REV.	0		



TOP VIEW  
SCALE 1:400



SIDE VIEW  
SCALE 1:400



EQUIPMENT LIST	
ITEM	DESCRIPTION
-UM01	LIGHTING/LIGHTNING POLE 25M - 1M AIR TERMINAL
-UM02	LIGHTING/LIGHTNING POLE 25M - 1M AIR TERMINAL
-UM03	LIGHTING/LIGHTNING POLE 25M - 1M AIR TERMINAL
-UM04	LIGHTING/LIGHTNING POLE 25M - 1M AIR TERMINAL
-UM05	LIGHTING/LIGHTNING POLE 25M - 1M AIR TERMINAL
-UM06	LIGHTING/LIGHTNING POLE 25M - 1M AIR TERMINAL
-UM07	LIGHTING/LIGHTNING POLE 25M - 1M AIR TERMINAL
-UM08	LIGHTING/LIGHTNING POLE 25M - 1M AIR TERMINAL
-UM09	LIGHTING/LIGHTNING POLE 25M - 1M AIR TERMINAL
-UM10	LIGHTING/LIGHTNING POLE 25M - 1M AIR TERMINAL

- NOTES:
1. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
  2. COORDINATE SYSTEM IS MAP GRID OF AUSTRALIA ZONE 50 USING GDA 20 DATUM.
  3. REPORT 5819-304-1002 FOR LIGHTNING DETAILS.
  4. CDEGS CONTOUR BASED ON LEVEL II LIGHTNING PROTECTION, RSM RADIUS OF 30M AS PER AS1768.
  5. -UMXX LIGHTNING MAST, LIGHT CROSS ARM AT 10 METRES.

DOCUMENT No.	KRWF-E-1229-001	DOC. REV.	A
PROJECT No.	5819	DRAWING No.	5819-321-1022
SIZE	A1		
<b>VESTAS</b> KING ROCKS WIND FARM 132/33kV SUBSTATION LIGHTNING LAYOUT			
ACAD FILE:	CAD1-DWG1		

© COPYRIGHT



THIS DRAWING REMAINS THE PROPERTY OF RJE GLOBAL PTY. LTD. IT IS SUBJECT TO RETURN UPON DEMAND & MAY NOT BE PASSED ON TO ANY THIRD PARTY, OR USED DIRECTLY OR INDIRECTLY FOR ANY OTHER PURPOSE THAN THE MANUFACTURE OR CONSTRUCTION OF EQUIPMENT, OR IN THE DESIGN & INSTALLATION OF PLANT TO THE ORDER OF RJE GLOBAL PTY. LTD.

DRAWING NUMBER	DRAWING TITLE	REV	DATE	DESCRIPTION	WRB	KSM	VESTAS	CLIENT
		0	12/12/25	ISSUED FOR CONSTRUCTION	WRB	KSM	VESTAS	CLIENT
REFERENCE DRAWINGS		REVISIONS & APPROVALS						

SCALE	1:400		
DRAWN	WRB	10/09/2025	
CHECKED	KSM	10/09/2025	
DESIGNED	WRB	10/09/2025	
RJE C.E.			
CLIENT C.E.			
CLIENT P.E.			
CLIENT M.E.			
APPROVED		DATE	

ISSUED FOR CONSTRUCTION

115 MORPHETT ROAD  
MORPHETTVILLE, SA, 5043  
TEL +61 8 8300 9500  
FAX +61 8 8300 9501  
EMAIL enquiries@rjeglobal.com