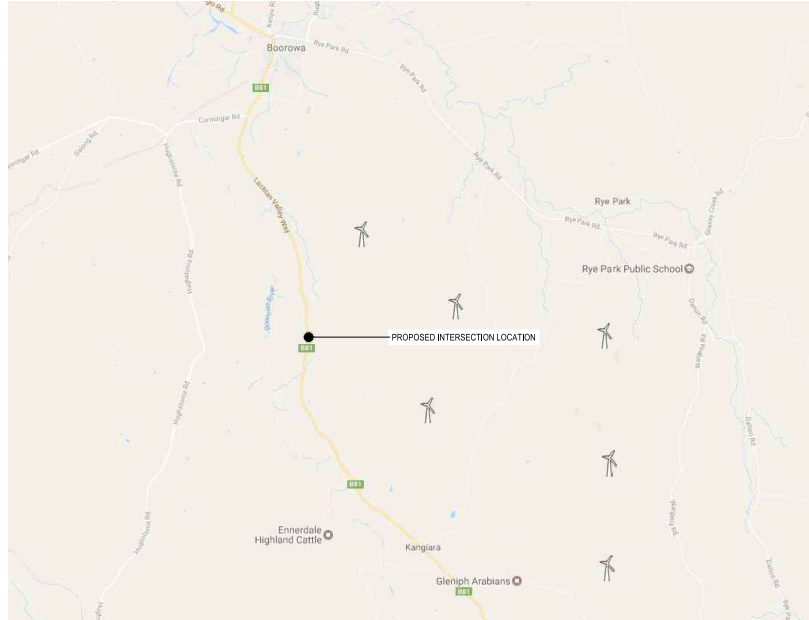


BANGO WIND FARM

EXTERNAL INTERSECTION - OPTION 1

FOR
CWP RENEWABLES PTY LTD



PROPOSED INTERSECTION LOCALITY PLAN

NTS



DETAILED INTERSECTION LOCALITY PLAN

SCALE 1:2000

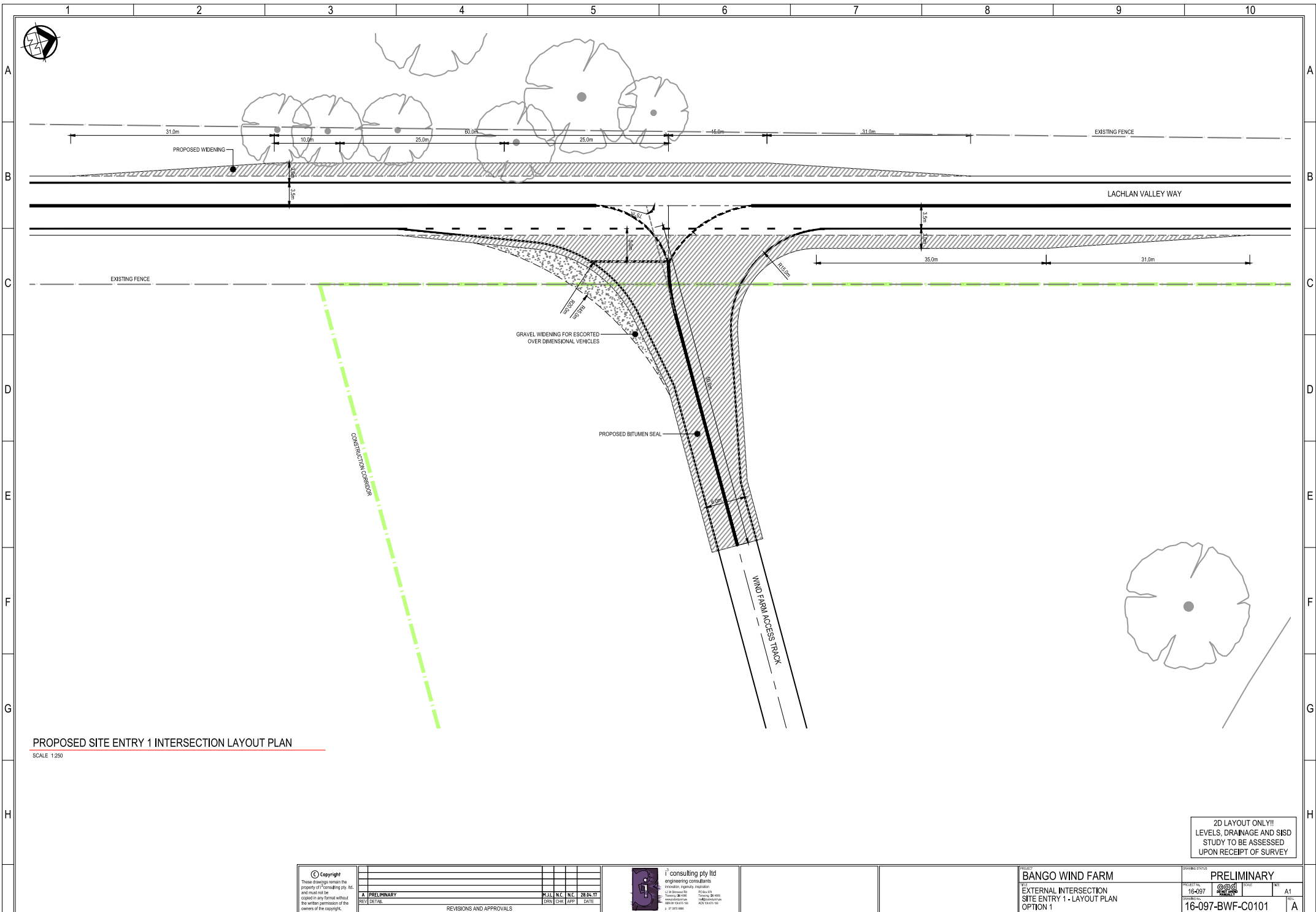
Copyright These drawings remain the property of i consulting pty ltd and must not be copied in any form without the written permission of the owners of the copyright.	PRELIMINARY APPROVAL	M.J.L. N.C. N.C. 28.04.17	ERM/CHK APP DATE
	REV DETAIL	M.J.L. N.C. N.C. 28.04.17	ERM/CHK APP DATE
	REVISIONS AND APPROVALS	M.J.L. N.C. N.C. 28.04.17	ERM/CHK APP DATE
	REVISIONS AND APPROVALS	M.J.L. N.C. N.C. 28.04.17	ERM/CHK APP DATE



PROJECT
BANGO WIND FARM

TITLE
**EXTERNAL INTERSECTION
SITE ENTRY 1 - LOCALITY PLAN
OPTION 1**

DRAWING STATUS PRELIMINARY	SHEET NO. 16-097	SCALE 1:2000	DATE 28.04.17
PROJECT NO. 16-097	DRAWING NO. 16-097-BWF-C0100	SHEET NO. A1	DATE 28.04.17



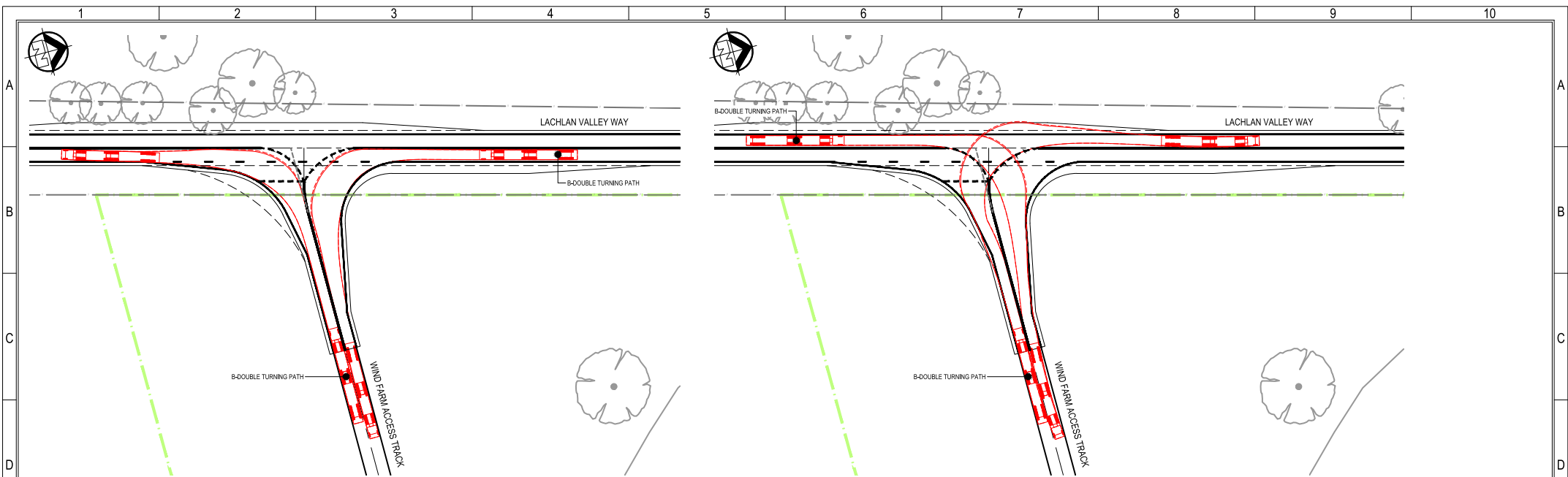
PROPOSED SITE ENTRY 1 INTERSECTION LAYOUT PLAN
SCALE 1:250

2D LAYOUT ONLY!!
LEVELS, DRAINAGE AND SISD
STUDY TO BE ASSESSED
UPON RECEIPT OF SURVEY

<p>Copyright These drawings remain the property of i consulting pty. ltd and must not be copied in any format without the written permission of the owners of the copyright.</p>		<table border="1"> <tr> <td>REV</td> <td>DATE</td> <td>APP</td> <td>CHK</td> <td>BY</td> </tr> <tr> <td>1</td> <td>28.04.17</td> <td>NC</td> <td>NC</td> <td>M.J.L.</td> </tr> </table>		REV	DATE	APP	CHK	BY	1	28.04.17	NC	NC	M.J.L.
REV	DATE	APP	CHK	BY									
1	28.04.17	NC	NC	M.J.L.									
<p>PRELIMINARY</p>		<p>REVISIONS AND APPROVALS</p>											

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Bundoora VIC 3083
Australia
P 03 9470 9888
F 03 9470 9889

<p>BANGO WIND FARM</p>		<p>PROJECT NO. 16-097</p>		<p>DRAWING STATUS: PRELIMINARY</p>	
<p>EXTERNAL INTERSECTION</p>		<p>SCALE: 1:250</p>		<p>SHEET NO: A1</p>	
<p>SITE ENTRY 1 - LAYOUT PLAN</p>		<p>DATE: 28.04.17</p>		<p>REV: A</p>	
<p>OPTION 1</p>		<p>PROJECT NO: 16-097-BWF-C0101</p>		<p>REV: A</p>	

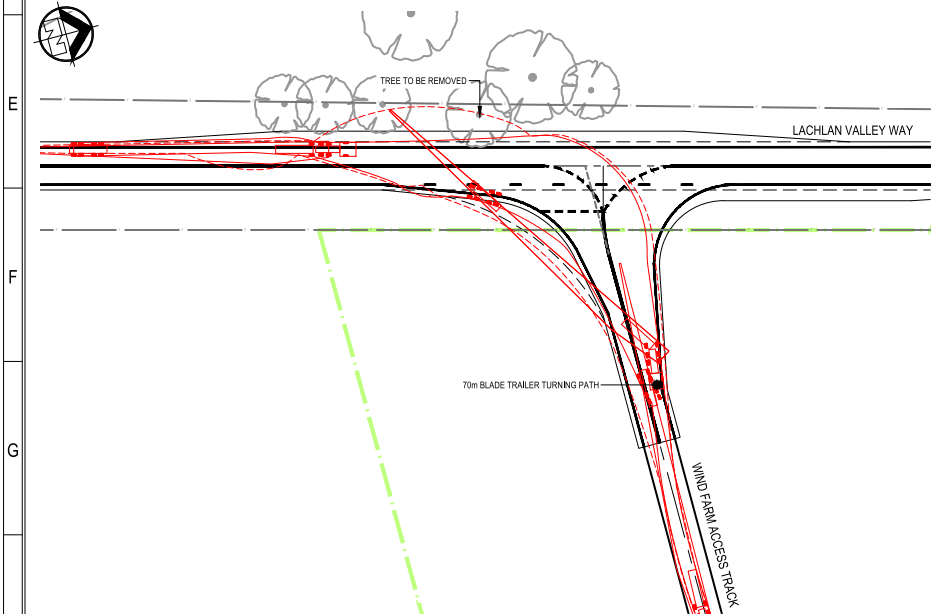


TURNING PATH PLAN - B-DOUBLE

SCALE 1:500

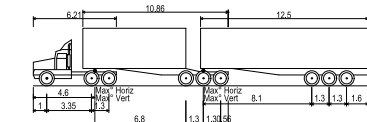
TURNING PATH PLAN - B-DOUBLE

SCALE 1:500



TURNING PATH PLAN - BLADE TRAILER

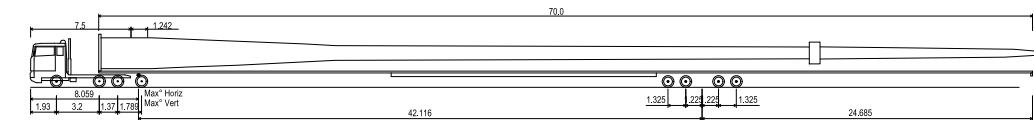
SCALE 1:500



B-Double (25.0m)
 Overall Length 25.000m
 Overall Width 2.500m
 Overall Body Height 4.300m
 Min Body Ground Clearance 0.540m
 Track Width 2.500m
 Lock-to-lock time 6.00s
 Curb to Curb Turning Radius 15.000m

B-DOUBLE PROFILE

NTS

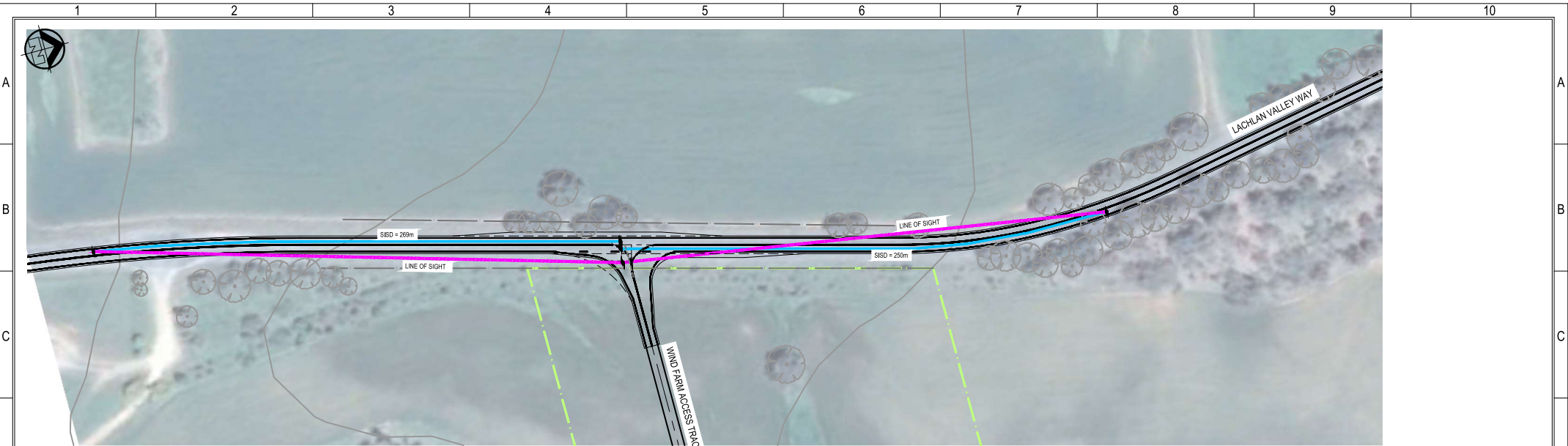


70 m Blade Truck and Trailer (With Dolly)
 Overall Length 74.850m
 Overall Width 2.500m
 Overall Body Height 3.600m
 Min Body Ground Clearance 0.348m
 Max Track Width 2.500m
 Lock-to-lock time 6.00s
 Max Steering Angle (Virtual) 30.00°

70m BLADE TRAILER PROFILE

NTS

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	<p>REVISIONS AND APPROVALS</p>				<p>PROJECT NO: 16-097</p>		<p>DATE: 28.04.17</p>		<p>SCALE: A1</p>	
	<p>PRELIMINARY REV DETAIL</p>				<p>DESIGNED BY: M.J.L. N.C. N.C.</p>		<p>DATE: 28.04.17</p>		<p>DRAWING NO: 16-097-BWF-C0102</p>	



PROPOSED SITE ENTRY 1 INTERSECTION SISD PLAN

SCALE 1:1000

INTERSECTION SIGHT DISTANCES

AUSTROADS - GUIDE TO ROAD DESIGN PARTS 3 & 4a

SISD - SAFE INTERSECTION SIGHT DISTANCE

- LACHLAN VALLEY WAY
- 1.1m DRIVERS EYE HEIGHT
- 1.25m OBJECT HEIGHT
- 3.0s OBSERVATION TIME
- 2.0s REACTION TIME
- a=0.46 DECELERATION VALUE
- V=110km/h OPERATING (85th PERCENTILE) SPEED

CALCULATED SIGHT DISTANCES (INCLUDING CORRECTION FOR GRADES)	
ROAD	SISD (m)
LACHLAN VALLEY WAY NORTH	250
LACHLAN VALLEY WAY SOUTH	269



SIGHT DISTANCE NORTH



SIGHT DISTANCE SOUTH

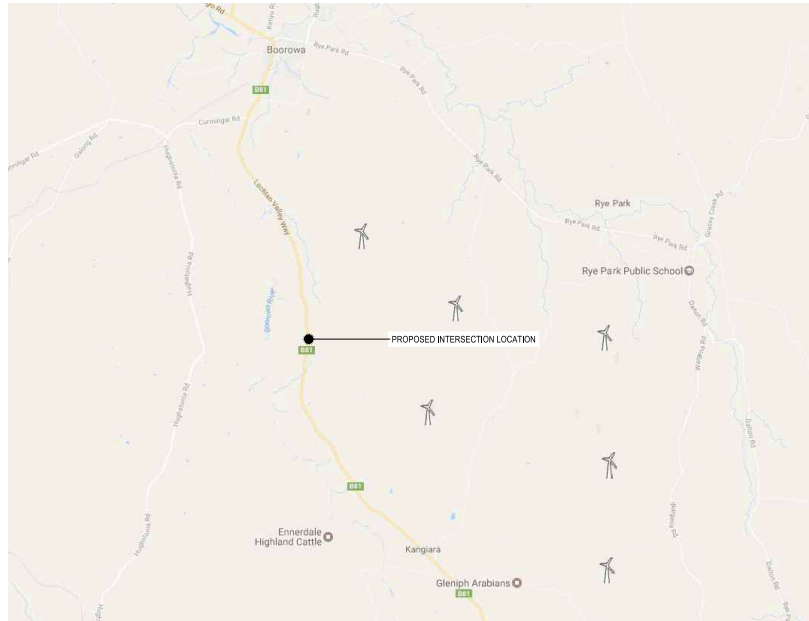
2D LAYOUT ONLY!!
LEVELS, DRAINAGE AND SISD
STUDY TO BE ASSESSED
UPON RECEIPT OF SURVEY

<p>Copyright</p> <p><small>These drawings remain the property of i consulting pty. ltd and must not be copied in any format without the written permission of the owners of the copyright.</small></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">REV</td> <td style="width: 15%;">DESCRIPTION</td> <td style="width: 10%;">DATE</td> <td style="width: 10%;">APP</td> <td style="width: 10%;">CHK</td> <td style="width: 10%;">N/C</td> <td style="width: 10%;">M/JL</td> <td style="width: 10%;">28.04.17</td> </tr> <tr> <td>A</td> <td>PRELIMINARY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p style="text-align: center; font-size: small;">REVISIONS AND APPROVALS</p>	REV	DESCRIPTION	DATE	APP	CHK	N/C	M/JL	28.04.17	A	PRELIMINARY							<p>i consulting pty ltd engineering consultants</p> <p><small>1/110 South Street, Bango NSW 2864 PO Box 101, Bango NSW 2864 AUSTRALIA P 02 9873 8888</small></p>	<p>BANGO WIND FARM</p> <p>EXTERNAL INTERSECTION SITE ENTRY 1 - SISD PLAN OPTION 1</p>	<p><small>DRAWING STATUS</small></p> <p>PRELIMINARY</p> <p>PROJECT NO: 16-097</p> <p>DATE: 28/04/17</p> <p>SCALE: A1</p> <p><small>CONTRACT NO</small> 16-097-BWF-C0103</p> <p><small>REV</small> A</p>
REV	DESCRIPTION	DATE	APP	CHK	N/C	M/JL	28.04.17													
A	PRELIMINARY																			

BANGO WIND FARM

EXTERNAL INTERSECTION - OPTION 2

FOR
CWP RENEWABLES PTY LTD



PROPOSED INTERSECTION LOCALITY PLAN

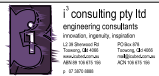
NTS



DETAILED INTERSECTION LOCALITY PLAN

SCALE 1:2000

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1	M.J.L.	N.C.	28.04.17								
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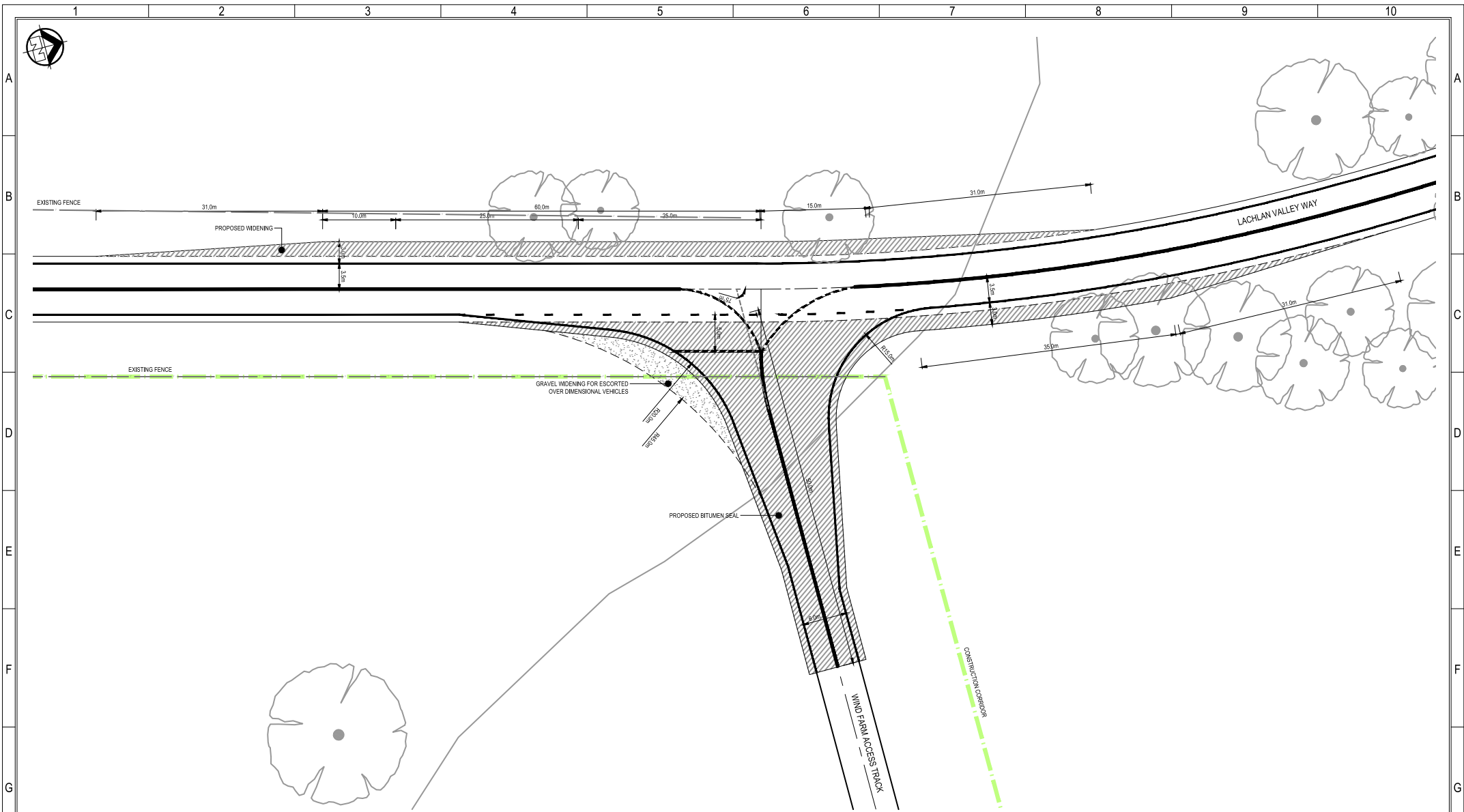


<p>PROJECT</p> <p>BANGO WIND FARM</p>	
<p>TITLE</p> <p>EXTERNAL INTERSECTION SITE ENTRY 1 - LOCALITY PLAN OPTION 2</p>	

<p>PROJECT NO.</p> <p>16-097</p>	
<p>DATE</p> <p>28.04.17</p>	

<p>DRAWING STATUS</p> <p>PRELIMINARY</p>	
<p>SCALE</p> <p>A1</p>	

<p>PROJECT NO.</p> <p>16-097-BWF-C0110</p>	
<p>DATE</p> <p>28.04.17</p>	



PROPOSED SITE ENTRY 1 INTERSECTION LAYOUT PLAN

SCALE 1:250

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LEVELS, DRAINAGE AND SISD
STUDY TO BE ASSESSED
UPON RECEIPT OF SURVEY

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<p>A PRELIMINARY</p>	<p>M J L N C N C</p>	<p>28 04 17</p>	<p>REV DETAIL</p>
<p>REVISIONS AND APPROVALS</p>		<p>ERN CHK APP DATE</p>	<p>DATE</p>

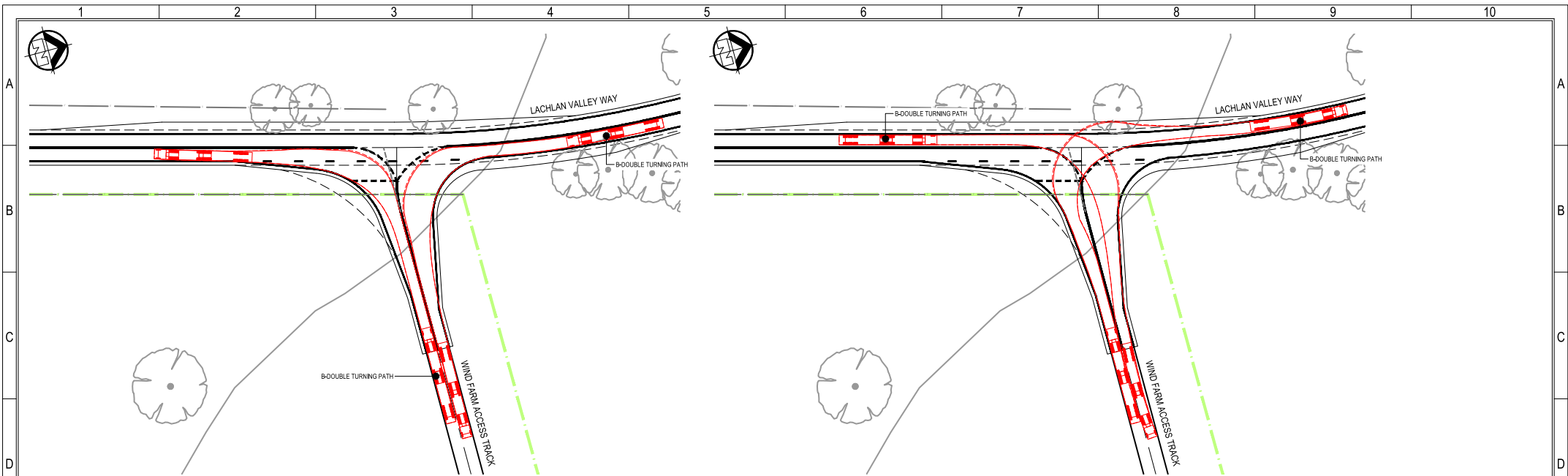


<p>BANGO WIND FARM</p>	
<p>EXTERNAL INTERSECTION SITE ENTRY 1 - LAYOUT PLAN OPTION 2</p>	<p>SCALE A1</p>

<p>PROJECT NO 16-097</p>	<p>DATE 28/04/17</p>
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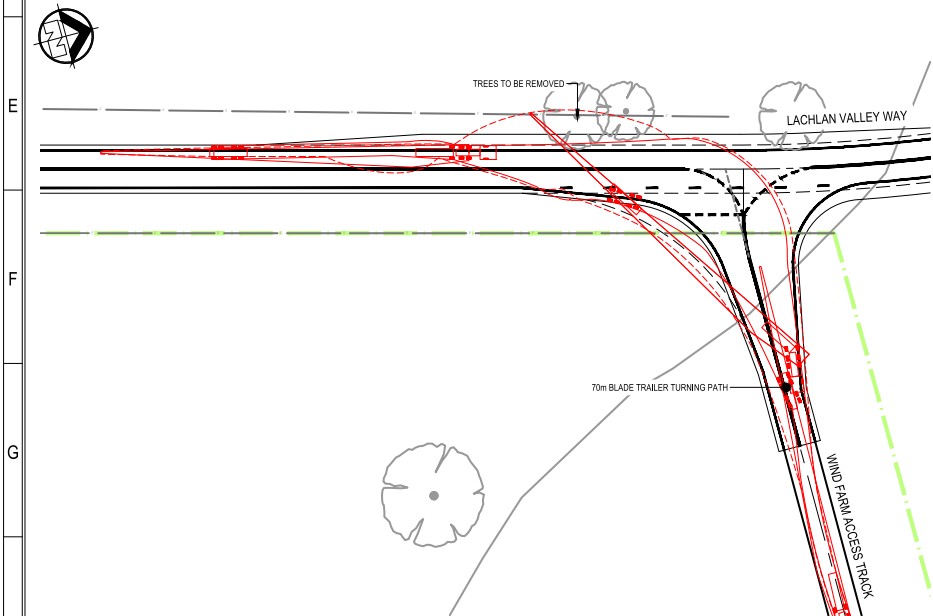
<p>PROJECT BANGO WIND FARM</p>	<p>DRAWING STATUS PRELIMINARY</p>
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<p>PROJECT NO 16-097-BWF-C0111</p>	<p>SCALE A1</p>
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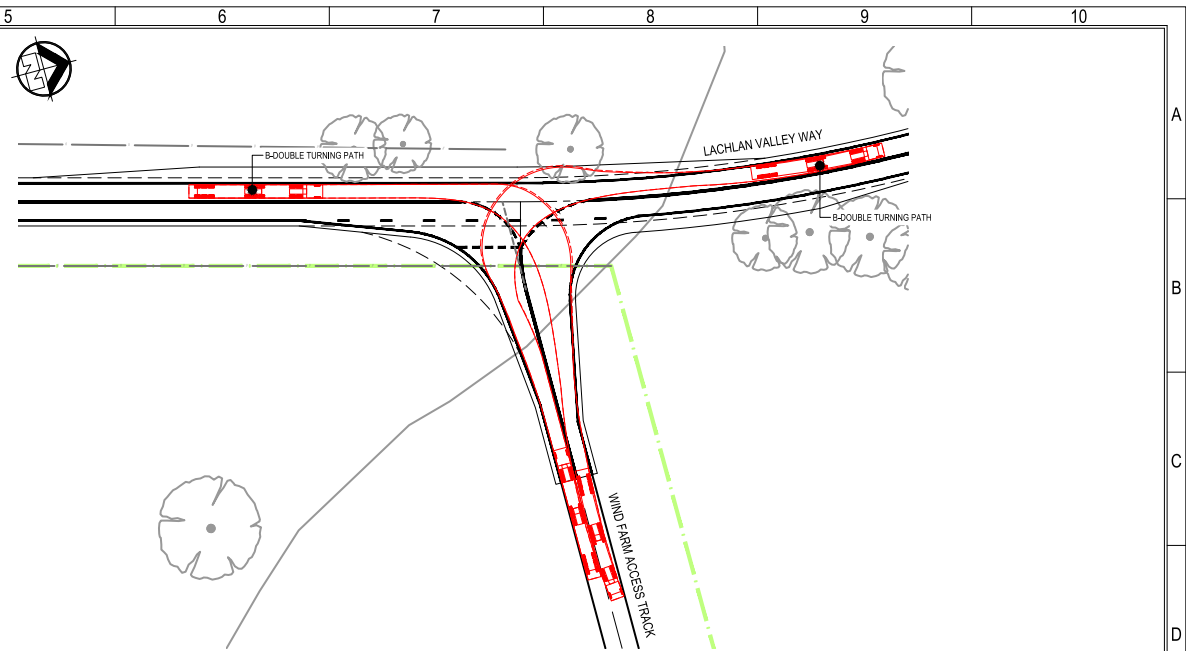
TURNING PATH PLAN - B-DOUBLE

SCALE 1:500



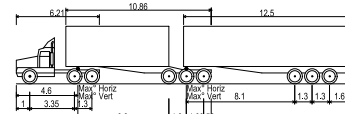
TURNING PATH PLAN - BLADE TRAILER

SCALE 1:500



TURNING PATH PLAN - B-DOUBLE

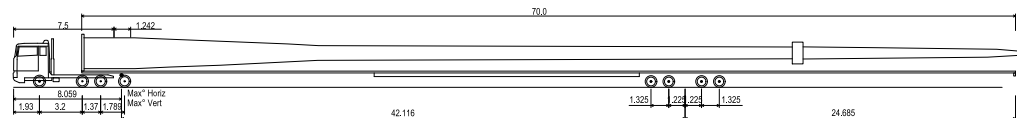
SCALE 1:500



B-DOUBLE (25.0m)
 Overall Length 25.000m
 Overall Width 2.500m
 Overall Body Height 4.300m
 Min Body Ground Clearance 0.540m
 Track Width 2.500m
 Lock-to-lock time 6.00s
 Curb to Curb Turning Radius 15.000m

B-DOUBLE PROFILE

NTS

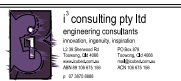


70 m Blade Trailer and Trailer (Win Dolly)
 Overall Length 74.850m
 Overall Width 2.500m
 Overall Body Height 3.650m
 Min Body Ground Clearance 0.348m
 Max Track Width 2.500m
 Lock-to-lock time 6.00s
 Max Steering Angle (Virtual) 30.00°

70m BLADE TRAILER PROFILE

NTS

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<p>REVISIONS AND APPROVALS</p>		<p>REV</p>	<p>DATE</p>	<p>APP</p>	<p>CHK</p>	<p>NC</p>	<p>NC</p>	<p>NC</p>	<p>28.04.17</p>



<p>BANGO WIND FARM</p>		<p>DRAWING STATUS PRELIMINARY</p>	
<p>PROJECT NO. 16-097</p>		<p>DATE 28/04/17</p>	
<p>TITLE EXTERNAL INTERSECTION SITE ENTRY 1 - TURNING PATH PLAN OPTION 2</p>		<p>REV. A1</p>	
<p>PROJECT NO. 16-097-BWF-C0112</p>		<p>REV. A</p>	