

**PRELIMINARY PLAN ONLY**

**Legend**

- Proposed Bindoon Bypass Centreline
- Noise Sensitive Receivers

**Predicted Night Time Noise Level including Facade Correction**

- <50 dBA
- 50-55 dBA
- >55 dBA

Data Source: Main Roads WA, Landgate

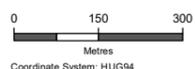


**Joint Venture Partners:**

Arup Pty Ltd  
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Scale at A3  
1:12,563

Coordinate System: HUG94



Main Roads Western Australia

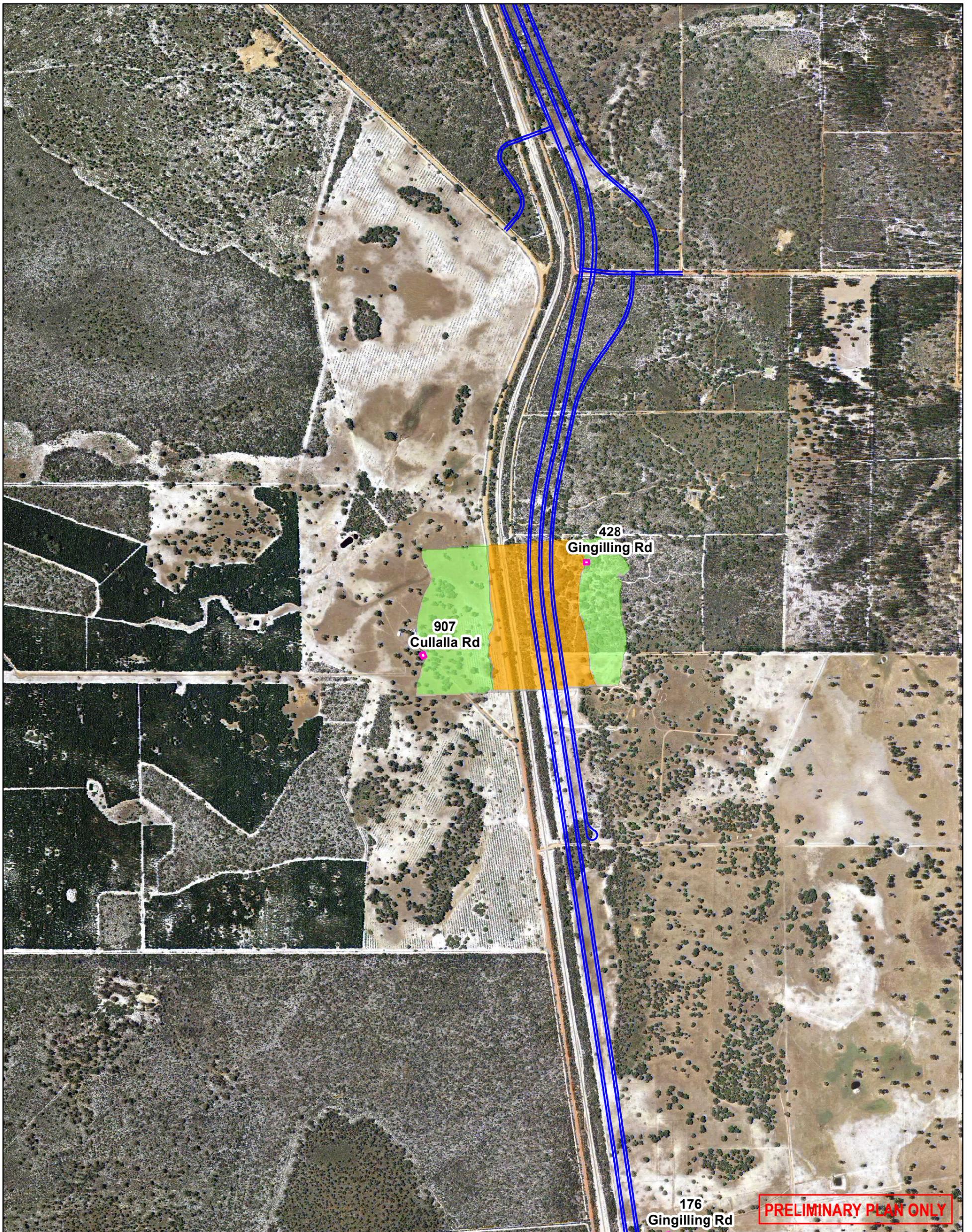
Great Northern Highway  
Muchea to Wubin Upgrade Stage 2

**Predicted Night Time Traffic Noise Level along Proposed Bindoon Bypass**

Drawing No: GNH-CN12-EN01-DRG-9122 Issue: A

Task No: Noise Assessment Drawing Status / Other: Draft / Other Info

Date	By	Chkd	Appd
10/08/2018	MFR	FB	LMB



**Legend**

- Proposed Bindoon Bypass Centreline
- Noise Sensitive Receivers

**Predicted Night Time Noise Level including Facade Correction**

- <50 dBA
- 50-55 dBA
- >55 dBA

**Legend**

- North Arrow
- Scale at A3: 1:12,563
- Coordinate System: HUG94

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**Government of Western Australia**

**mainroads WESTERN AUSTRALIA**

**GNH ARUP TRADING AS ASJV JACOBS**

**Main Roads Western Australia**

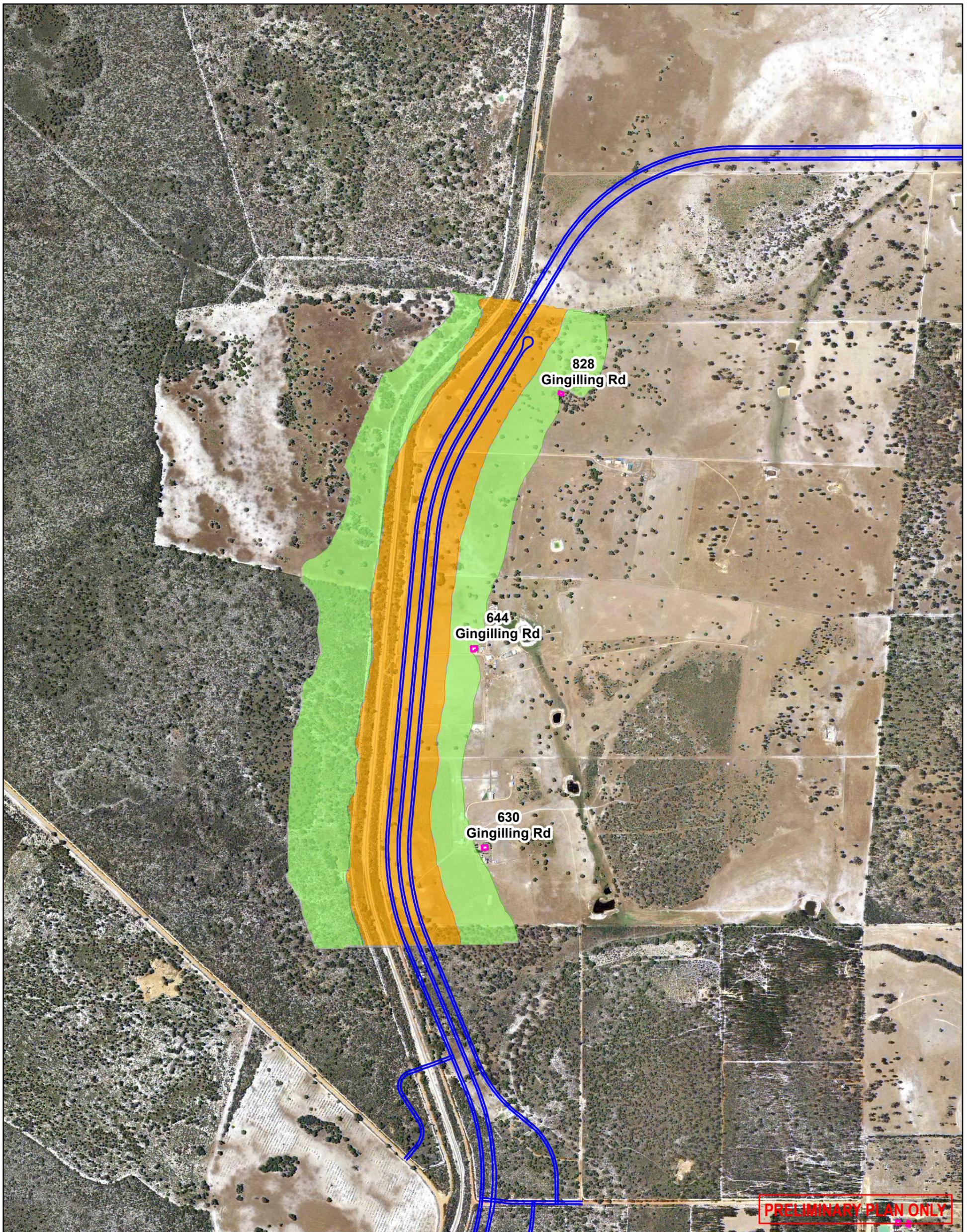
**Great Northern Highway Muchea to Wubin Upgrade Stage 2**

**Predicted Night Time Traffic Noise Level along Proposed Bindoon Bypass**

Task No Noise Assessment	Drawing Status / Other Draft / Other Info	Date 10/08/2018	By MFR	Chkd FB	Appd LMB
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Drawing No: GNH-CN12-EN01-DRG-9123 Issue A

Data Source: Main Roads WA, Landgate



**Legend**

- Proposed Bindoon Bypass Centreline
- Noise Sensitive Receivers

**Predicted Night Time Noise Level including Facade Correction**

- <50 dBA
- 50-55 dBA
- >55 dBA

Data Source: Main Roads WA, Landgate

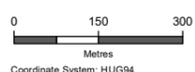


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Scale at A3  
1:12,563

Coordinate System: HUG94



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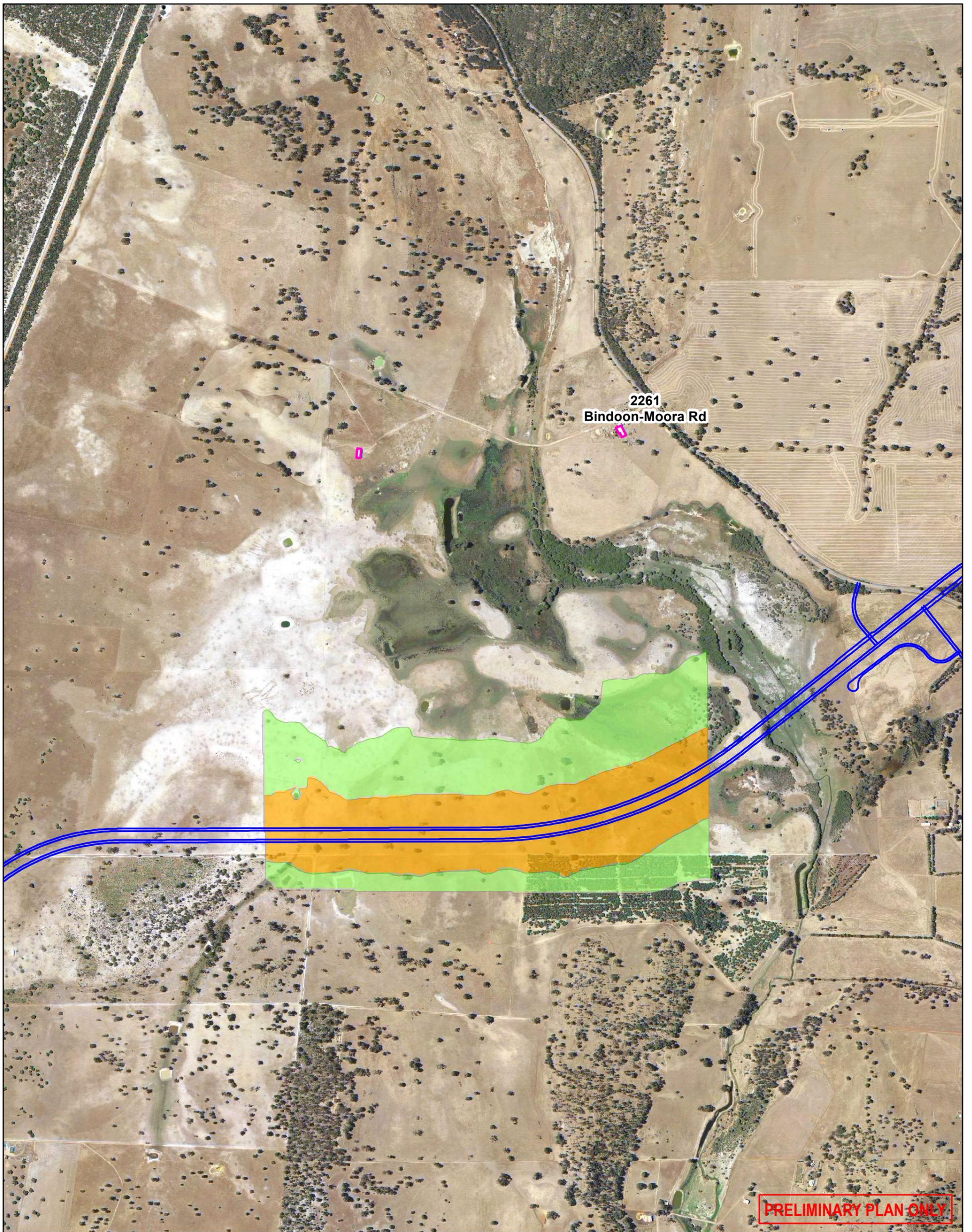
Great Northern Highway  
Muchea to Wubin Upgrade Stage 2

**Predicted Night Time Traffic Noise Level along Proposed Bindoon Bypass**

Drawing No: GNH-CN12-EN01-DRG-9124 Issue A

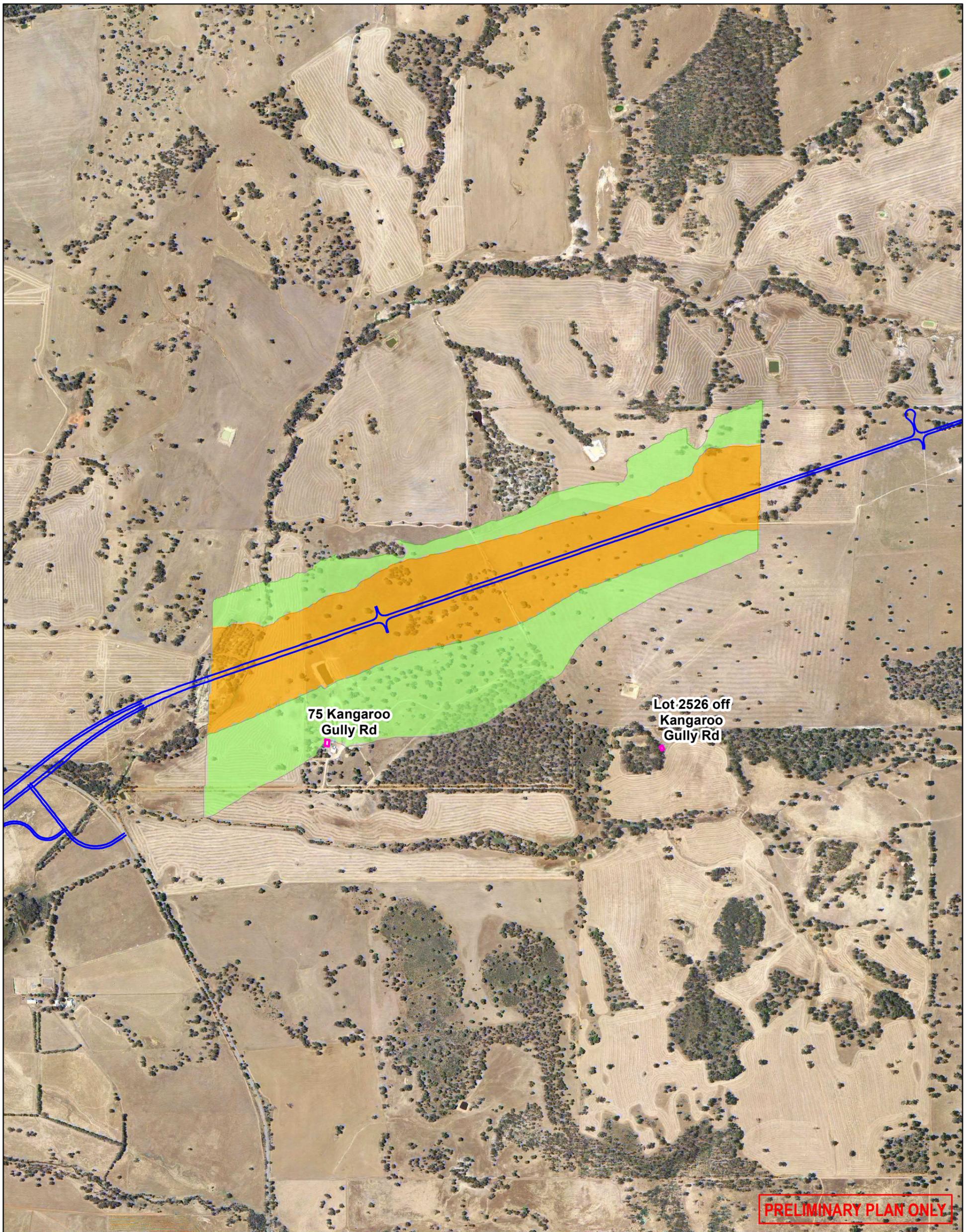
Task No: Noise Assessment Drawing Status / Other: Draft / Other Info

Date	By	Chkd	Appd
10/08/2018	MFR	FB	LMB



<p><b>Legend</b></p> <p>— Proposed Bindoon Bypass Centreline</p> <p>□ Noise Sensitive Receivers</p> <p><b>Predicted Night Time Noise Level including Facade Correction</b></p> <p>&lt;50 dBA</p> <p>50-55 dBA</p> <p>&gt;55 dBA</p> <p><small>Data Source: Main Roads WA, Landgate</small></p>	<p>0 150 300 Metres</p> <p>Scale at A3: 1:12,563</p> <p>Coordinate System: HUG94</p>	<p>Joint Venture Partners:</p> <p>Arup Pty Ltd Level 14 Exchange Tower 2 The Esplanade Perth WA 6000 Tel +61 8 9327 8300 Fax +61 8 9481 1334 www.arup.com</p> <p>Jacobs Group (Australia) Pty Ltd Durack Centre, 263 Adelaide Terrace, Perth WA 6000 Tel +61 8 9469 4400 Fax +61 8 9469 4488 www.jacobs.com</p> <p>© Main Roads Western Australia</p>	<p><b>Client</b> Project</p> <p><b>Great Northern Highway Muchea to Wubin Upgrade Stage 2</b></p>	<p><b>Predicted Night Time Traffic Noise Level along Proposed Bindoon Bypass</b></p> <p>Drawing No: GNH-CN12-EN01-DRG-9125 Issue: A</p> <p>Task No: Noise Assessment Drawing Status / Other: Draft / Other Info</p> <table border="1"> <tr> <td>Date: 10/08/2018</td> <td>By: MFR</td> <td>Chkd: FB</td> <td>Appd: LMB</td> </tr> </table>	Date: 10/08/2018	By: MFR	Chkd: FB	Appd: LMB
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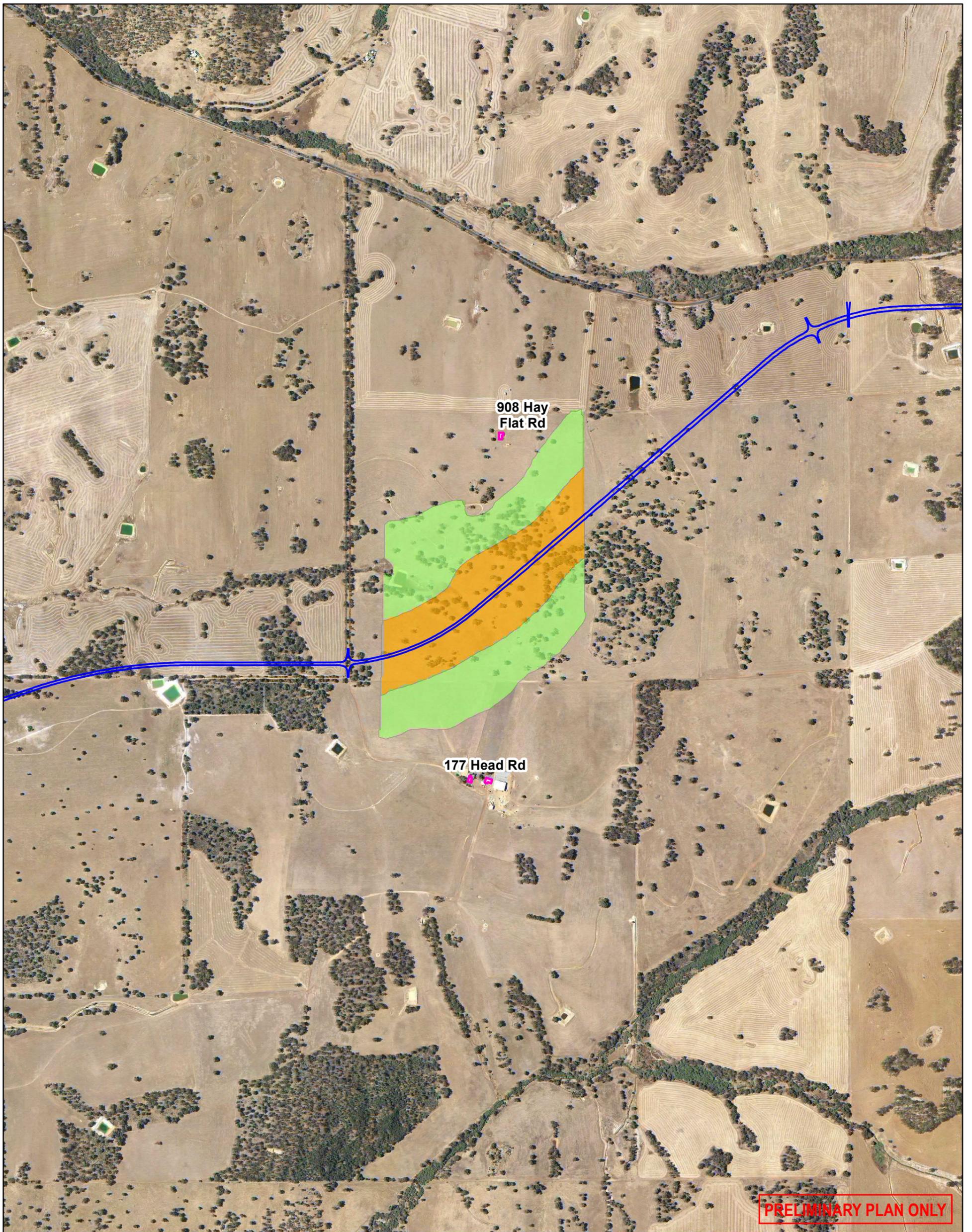
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**PRELIMINARY PLAN ONLY**

<p><b>Legend</b></p> <p>— Proposed Bindoon Bypass Centreline</p> <p>□ Noise Sensitive Receivers</p>	<p>Joint Venture Partners:</p> <p>Arup Pty Ltd Level 14 Exchange Tower 2 The Esplanade Perth WA 6000 Tel +61 8 9327 8300 Fax +61 8 9481 1334 www.arup.com</p> <p>Jacobs Group (Australia) Pty Ltd Durack Centre, 263 Adelaide Terrace, Perth WA 6000 Tel +61 8 9469 4400 Fax +61 8 9469 4488 www.jacobs.com</p> <p>© Main Roads Western Australia</p>	<p><b>mainroads</b> WESTERN AUSTRALIA</p> <p><b>ARUP</b> TRADING AS ASJV <b>JACOBS</b></p> <p><b>GNH</b> <b>MACROTECH</b></p> <p>Main Roads Western Australia</p> <p>Great Northern Highway Muecha to Wubin Upgrade Stage 2</p>	<p><b>Predicted Night Time Traffic Noise Level along Proposed Bindoon Bypass</b></p> <p>Drawing No: GNH-CN12-EN01-DRG-9126 Issue: A</p> <p>Task No: Noise Assessment Drawing Status / Other: Draft / Other Info</p> <table border="1"> <tr> <td>Date: 10/08/2018</td> <td>By: MFR</td> <td>Chkd: FB</td> <td>Appd: LMB</td> </tr> </table>	Date: 10/08/2018	By: MFR	Chkd: FB	Appd: LMB
Date: 10/08/2018	By: MFR	Chkd: FB	Appd: LMB				
<p><b>Predicted Night Time Noise Level including Facade Correction</b></p> <p>&lt;50 dBA</p> <p>50-55 dBA</p> <p>&gt;55 dBA</p> <p>Data Source: Main Roads WA, Landgate</p>	<p>0 150 300 Metres Scale at A3 1:12,563</p> <p>Coordinate System: HUG94</p>						

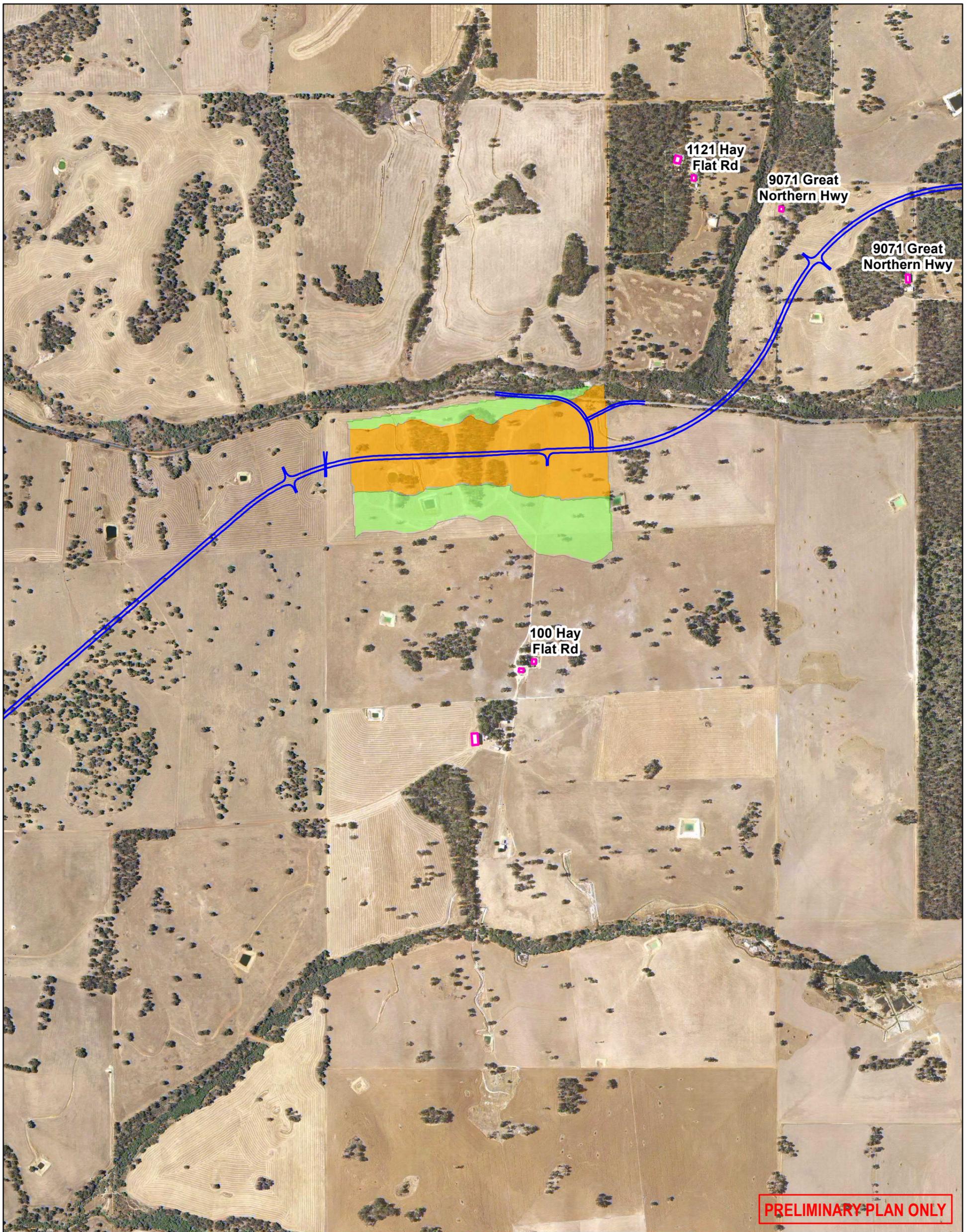
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<p><b>Legend</b></p> <p>— Proposed Bindoon Bypass Centreline</p> <p>□ Noise Sensitive Receivers</p>	<p><b>Predicted Night Time Noise Level including Facade Correction</b></p> <p>&lt;50 dBA</p> <p>50-55 dBA</p> <p>&gt;55 dBA</p>	<p>Joint Venture Partners:</p> <p>Arup Pty Ltd Level 14 Exchange Tower 2 The Esplanade Perth WA 6000 Tel +61 8 9327 8300 Fax +61 8 9481 1334 www.arup.com</p> <p>Jacobs Group (Australia) Pty Ltd Durack Centre, 263 Adelaide Terrace, Perth WA 6000 Tel +61 8 9469 4400 Fax +61 8 9469 4488 www.jacobs.com</p> <p>© Main Roads Western Australia</p>	<p>Government of Western Australia</p> <p>mainroads WESTERN AUSTRALIA</p> <p>ARUP TRADING AS ASJV</p> <p>JACOBS</p>	<p><b>Predicted Night Time Traffic Noise Level along Proposed Bindoon Bypass</b></p> <p>Drawing No: GNH-CN12-EN01-DRG-9127 Issue A</p>				
<p>Data Source: Main Roads WA, Landgate</p>	<p>Scale at A3: 1:12,563</p> <p>0 150 300 Metres</p> <p>Coordinate System: HUG94</p>	<p>Client: Main Roads Western Australia</p> <p>Project: Great Northern Highway Muchea to Wubin Upgrade Stage 2</p>	<p>Task No: Noise Assessment</p> <p>Drawing Status / Other: Draft / Other Info</p>	<table border="1"> <tr> <td>Date: 10/08/2018</td> <td>By: MFR</td> <td>Chkd: FB</td> <td>Appd: LMB</td> </tr> </table>	Date: 10/08/2018	By: MFR	Chkd: FB	Appd: LMB
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**Legend**

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- Noise Sensitive Receivers

**Predicted Night Time Noise Level including Facade Correction**

- <50 dBA
- 50-55 dBA
- >55 dBA

Data Source: Main Roads WA, Landgate

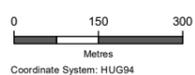


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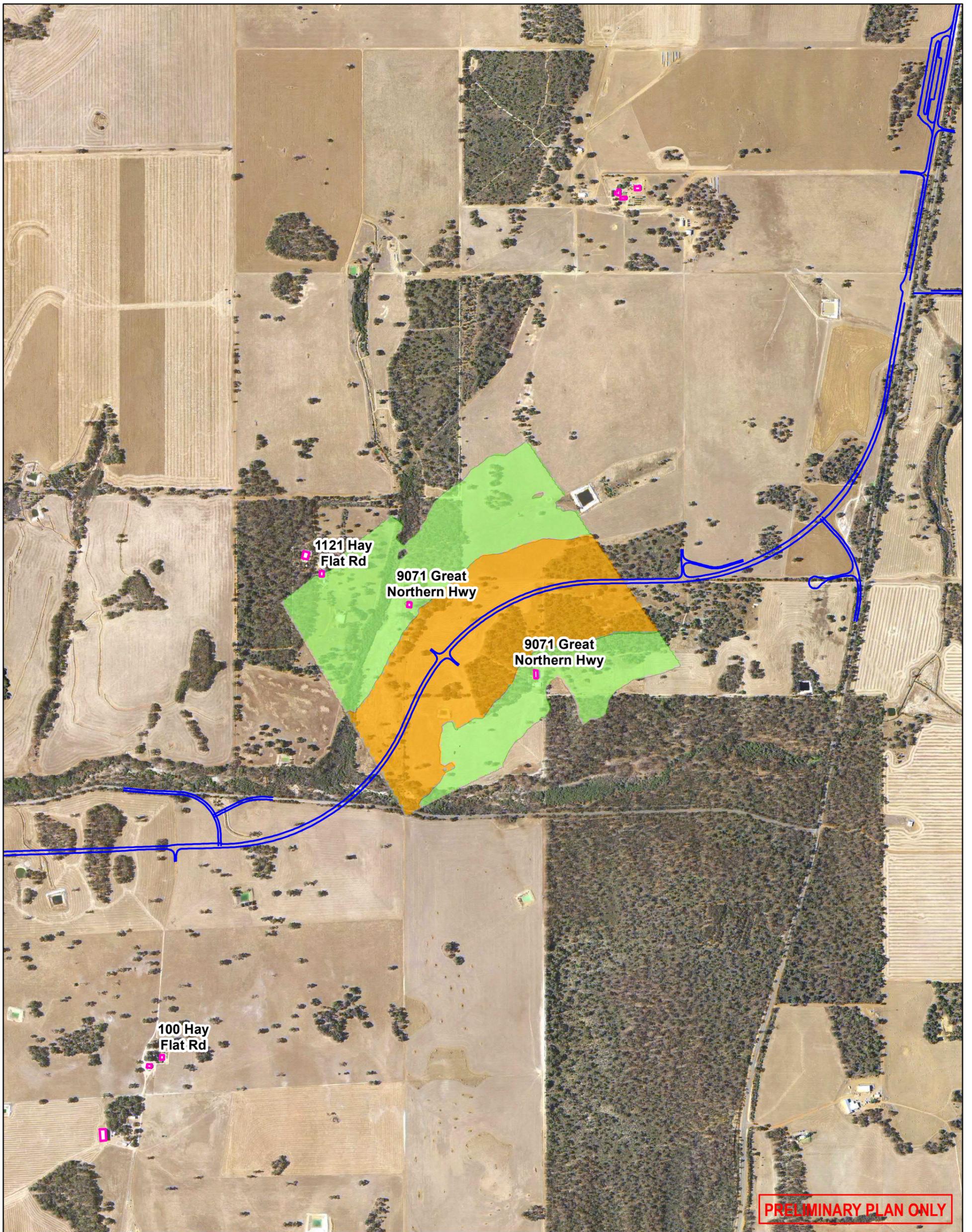
Great Northern Highway  
Muchea to Wubin Upgrade Stage 2

**Predicted Night Time Traffic Noise Level along Proposed Bindoon Bypass**

Drawing No: GNH-CN12-EN01-DRG-9128 Issue: A

Task No: Noise Assessment Drawing Status / Other: Draft / Other Info

Date	By	Chkd	Appd
10/08/2018	MFR	FB	LMB



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- Noise Sensitive Receivers

**Predicted Night Time Noise Level including Facade Correction**

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- 50-55 dBA
- >55 dBA

Data Source: Main Roads WA, Landgate

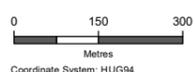


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Scale at A3  
1:12,563

Coordinate System: HUG94



Main Roads Western Australia

Great Northern Highway  
Muchea to Wubin Upgrade Stage 2

**Predicted Night Time Traffic Noise Level along Proposed Bindoon Bypass**

Drawing No: GNH-CN12-EN01-DRG-9129 Issue: A

Task No: Noise Assessment Drawing Status / Other: Draft / Other Info

Date	By	Chkd	Appd
10/08/2018	MFR	FB	LMB