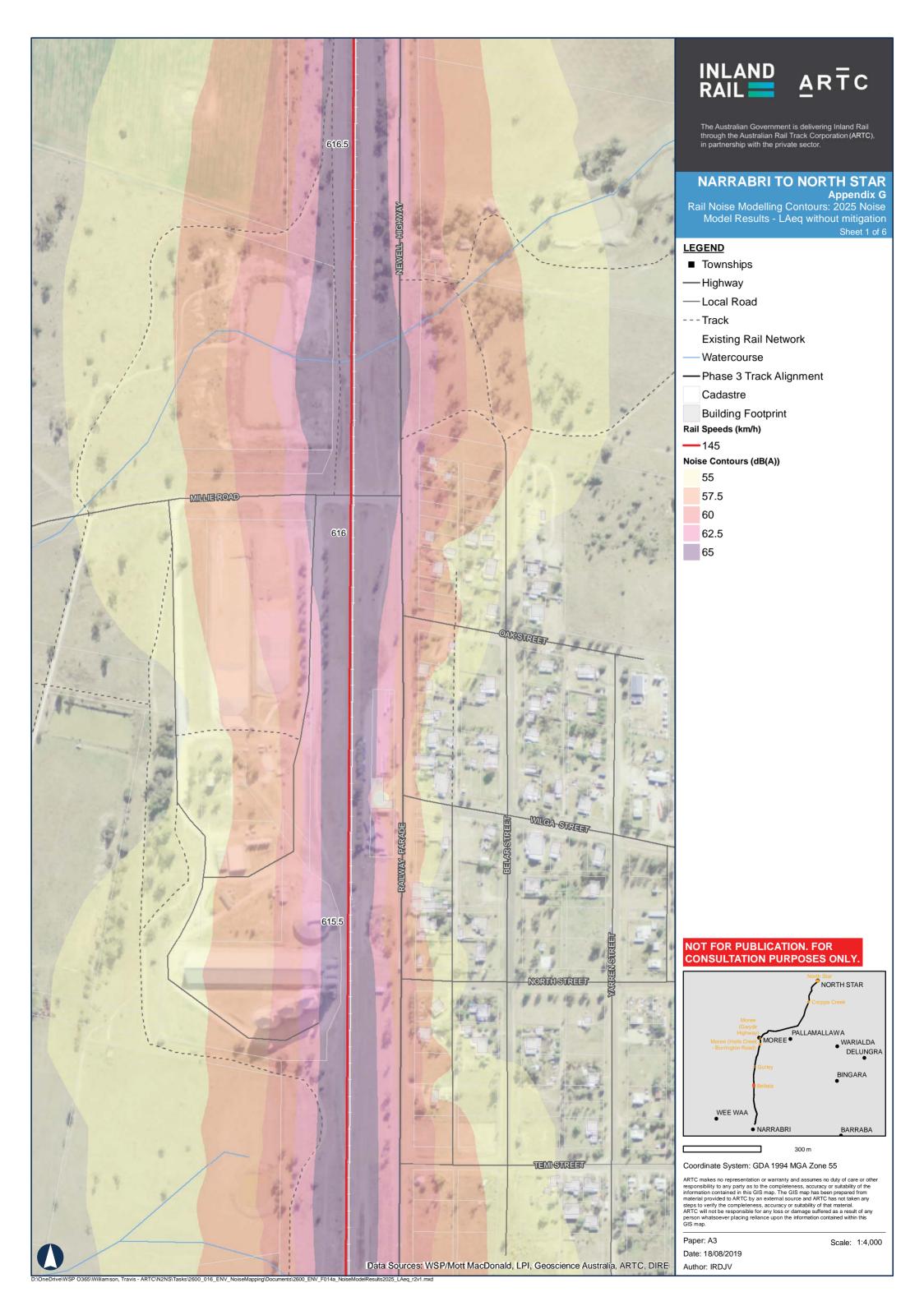
APPENDIX

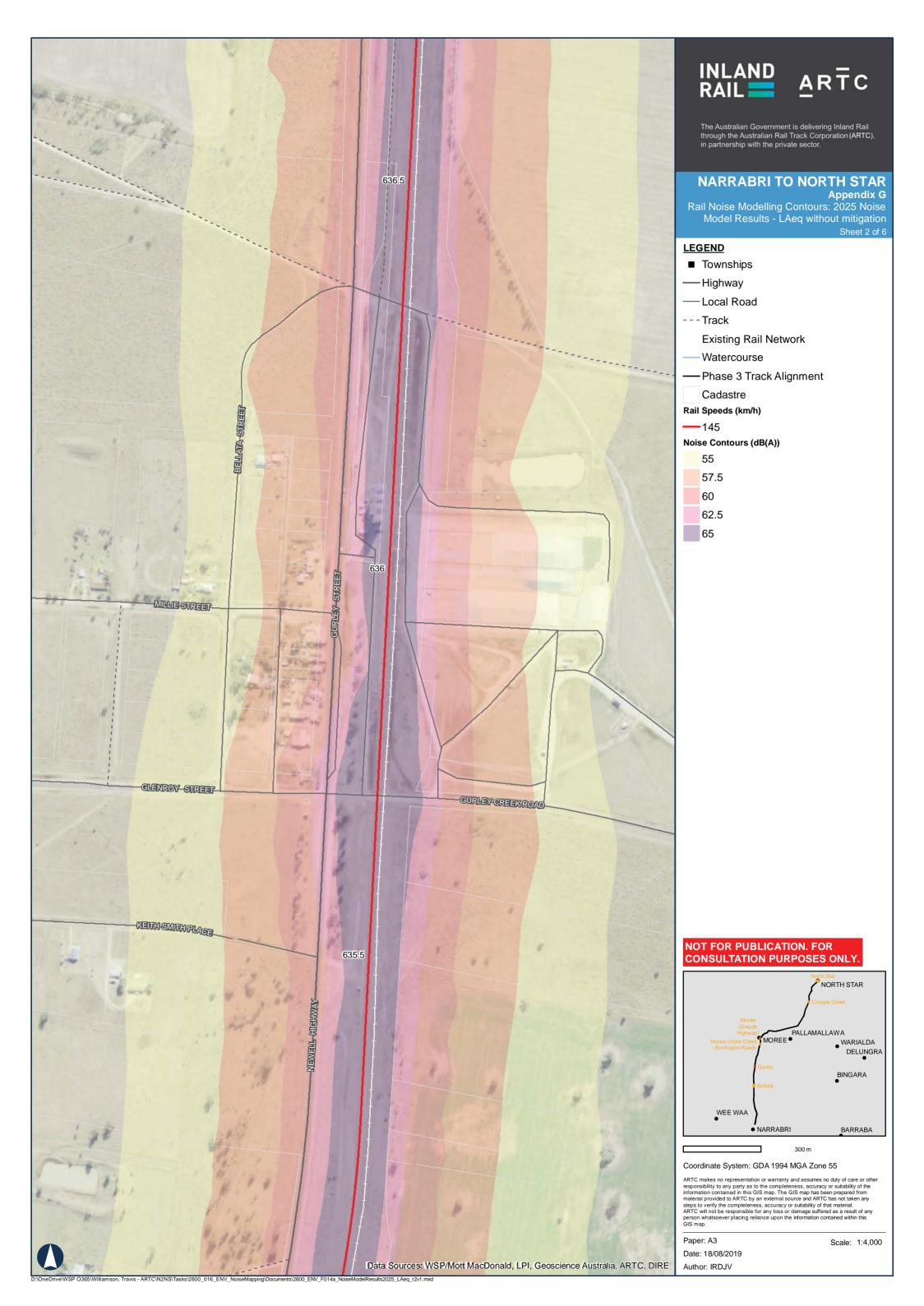
Operational Noise and Vibration Assessment

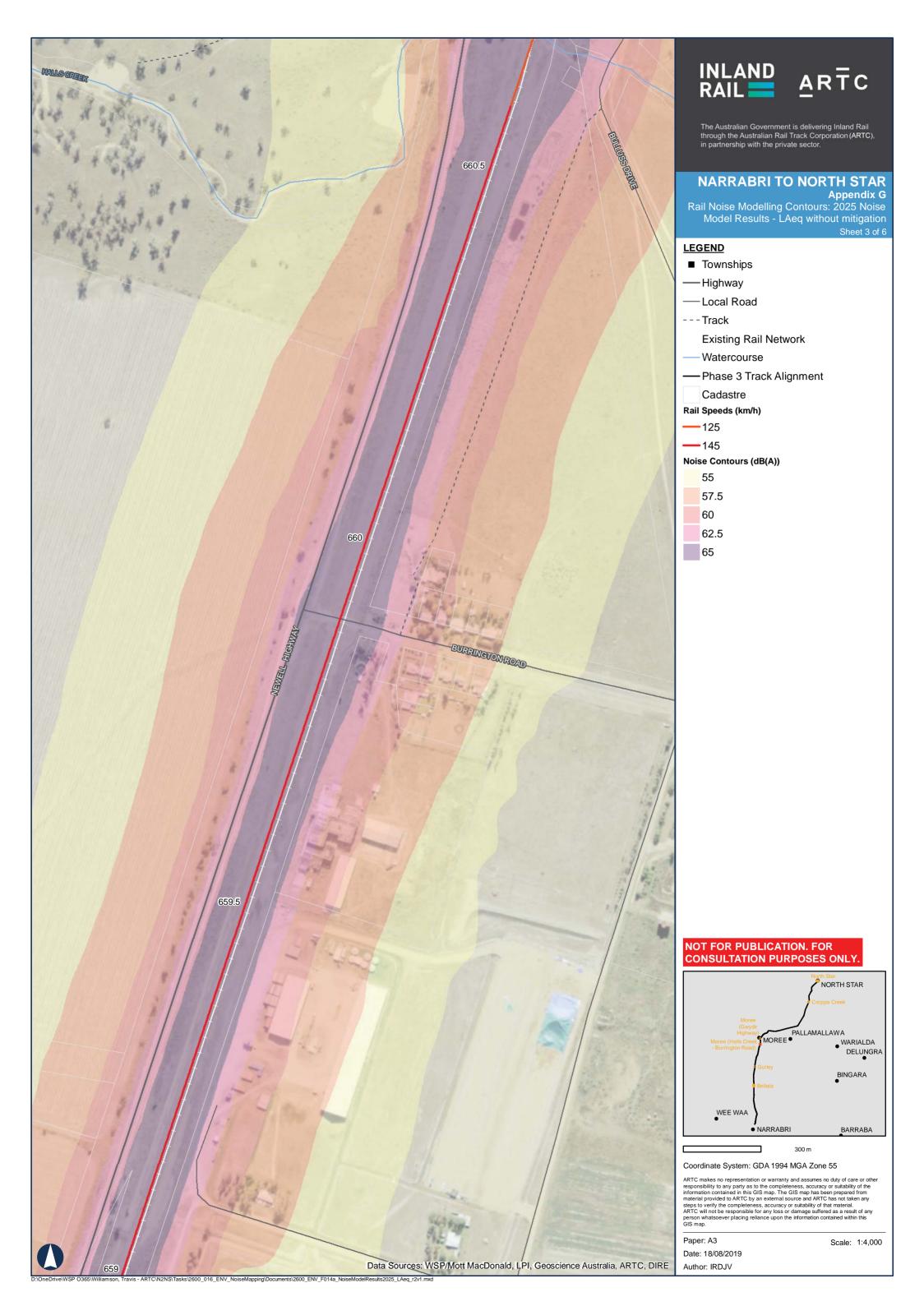
Attachment G Noise Barrier Noise Contours

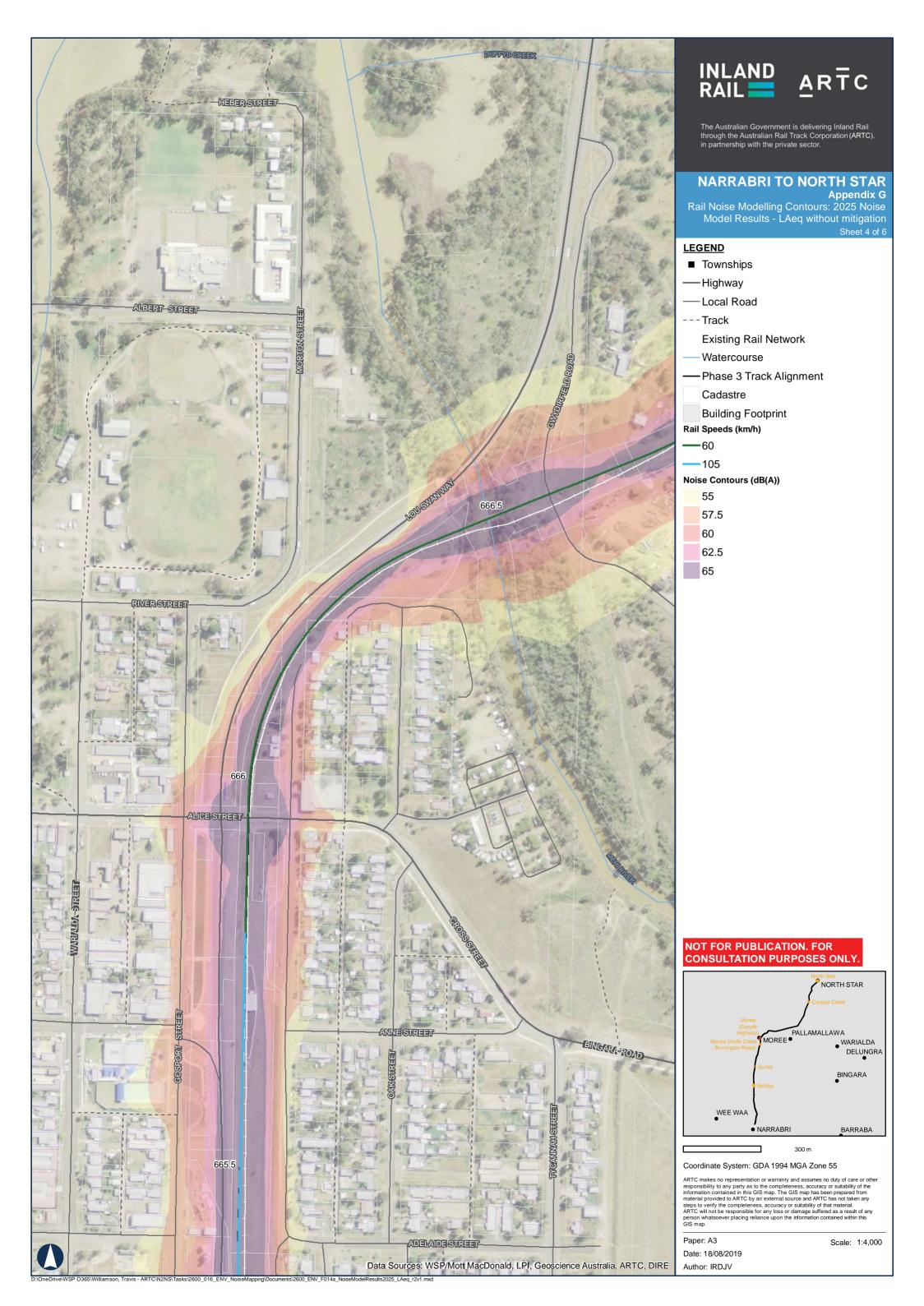
NARRABRI TO NORTH STAR SUBMISSIONS PREFERRED INFRASTRUCTURE REPORT

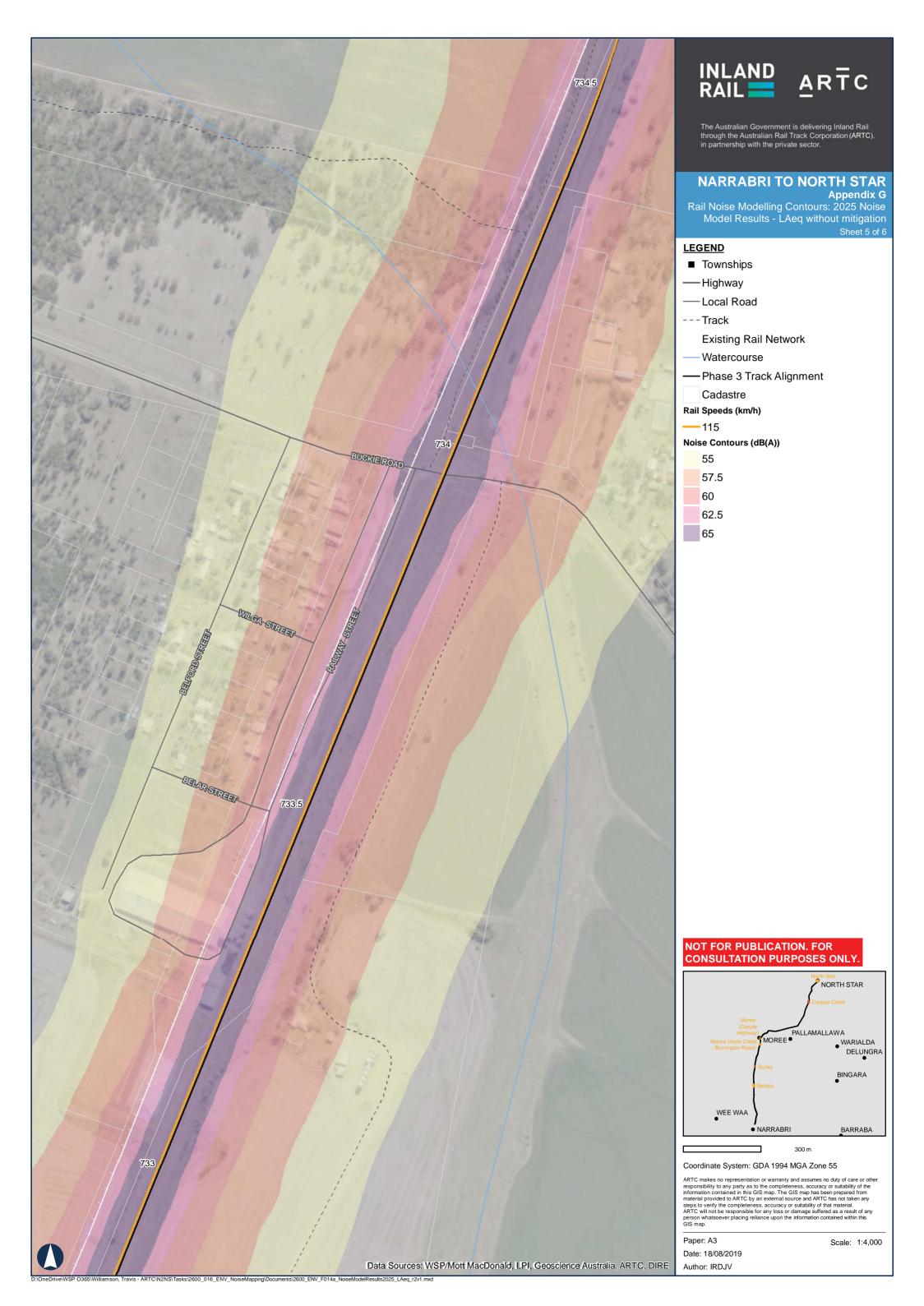














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NARRABRI TO NORTH STAR

Appendix G
Rail Noise Modelling Contours: 2025 Noise
Model Results - LAeq without mitigation

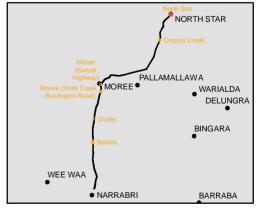
LEGEND

- Townships
- ---Highway
- -Local Road
- ---Track
 - **Existing Rail Network**
- Watercourse
- -Phase 3 Track Alignment
- Cadastre
- **Building Footprint**
- Rail Speeds (km/h)
- -115

Noise Contours (dB(A))

- 55
- 57.5
- 60
- 62.5
- 65

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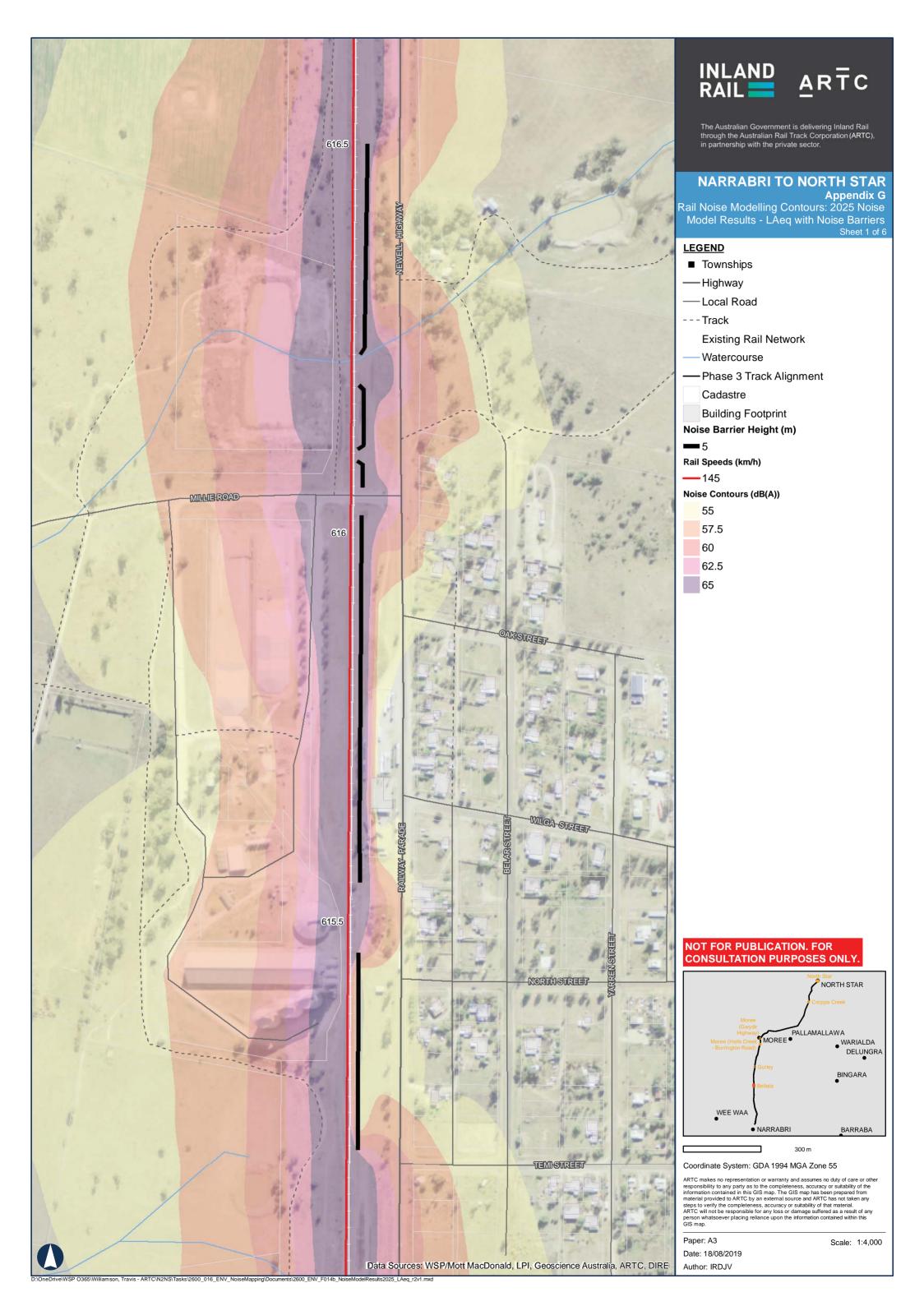
300 m Coordinate System: GDA 1994 MGA Zone 55

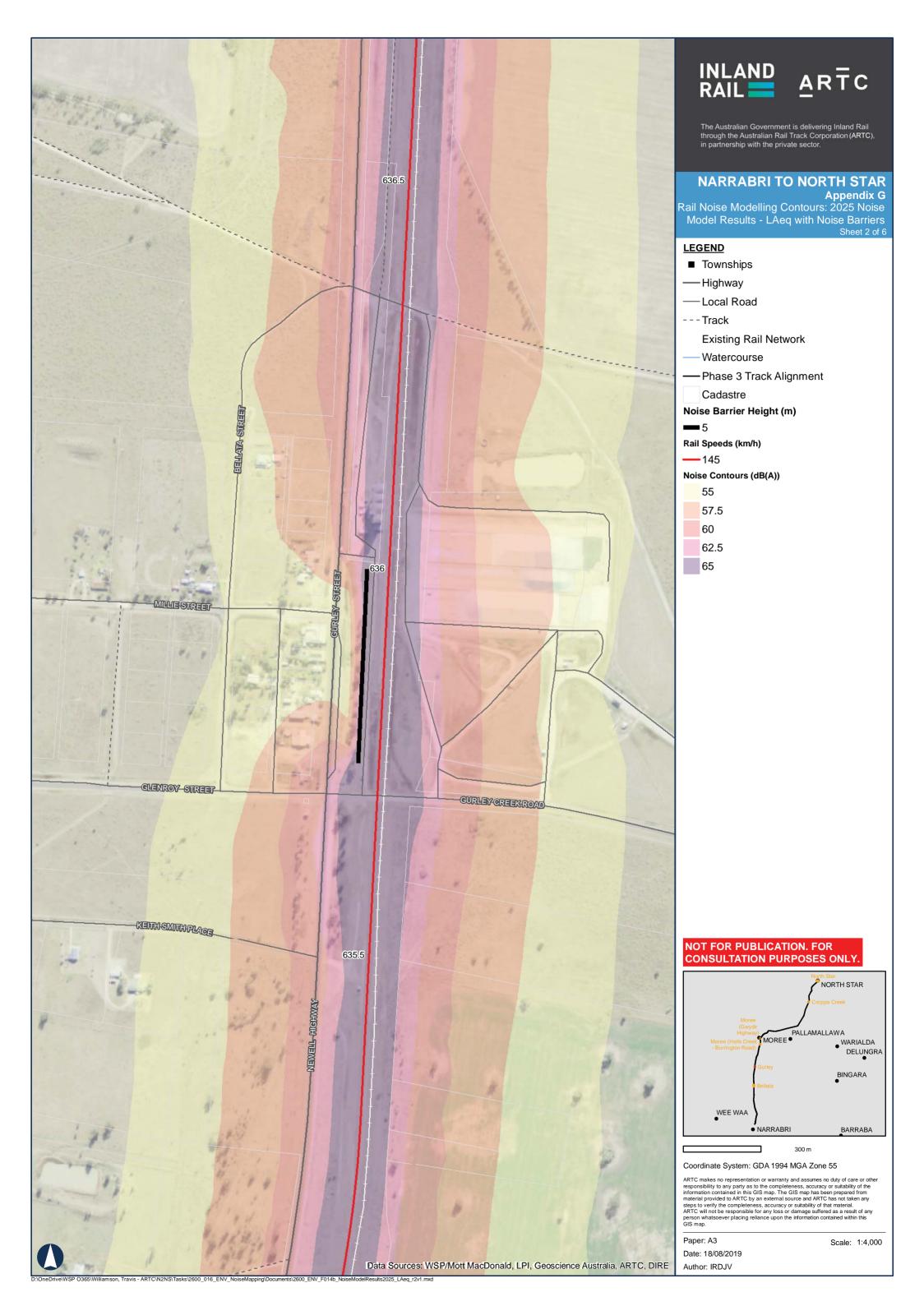
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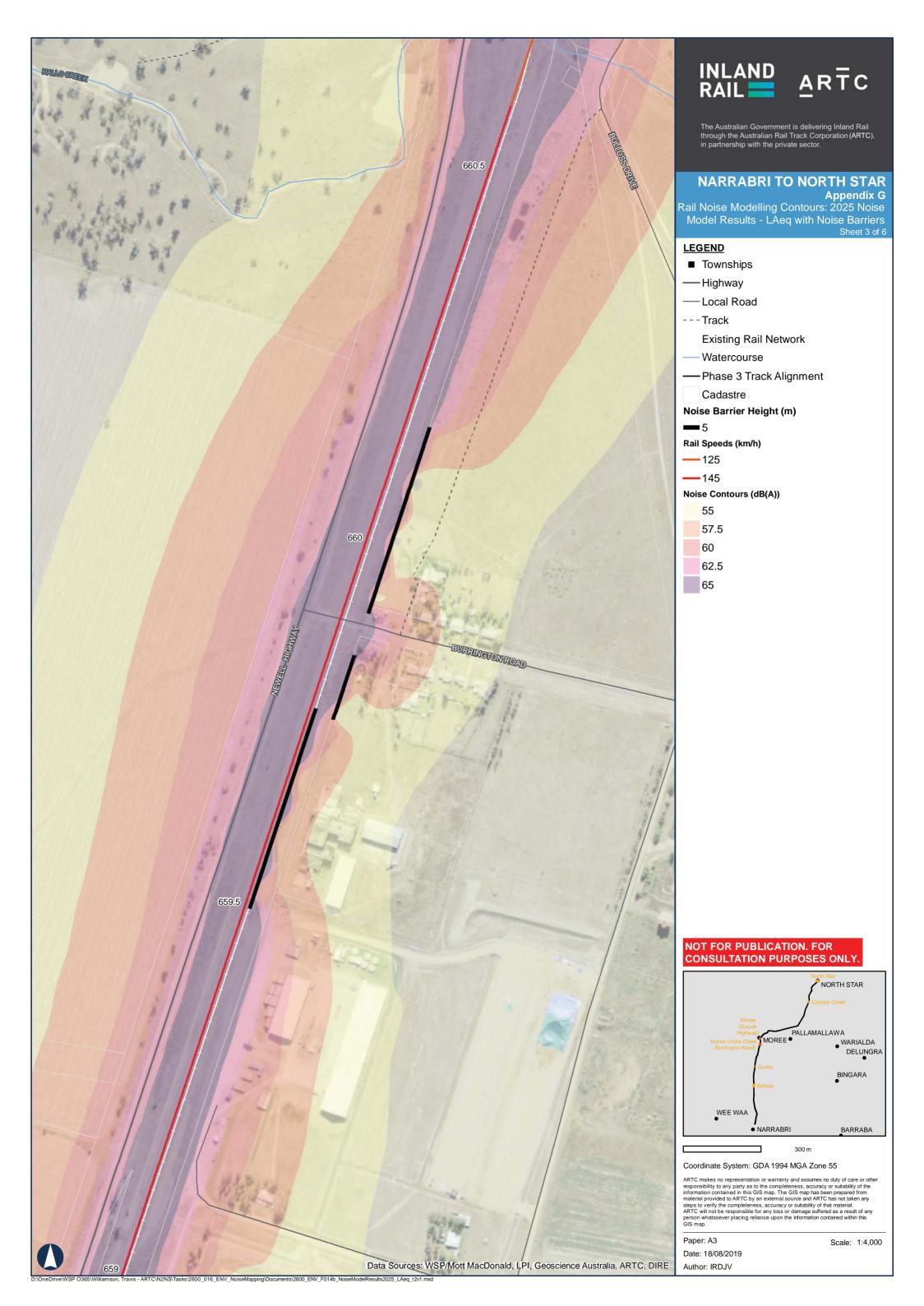
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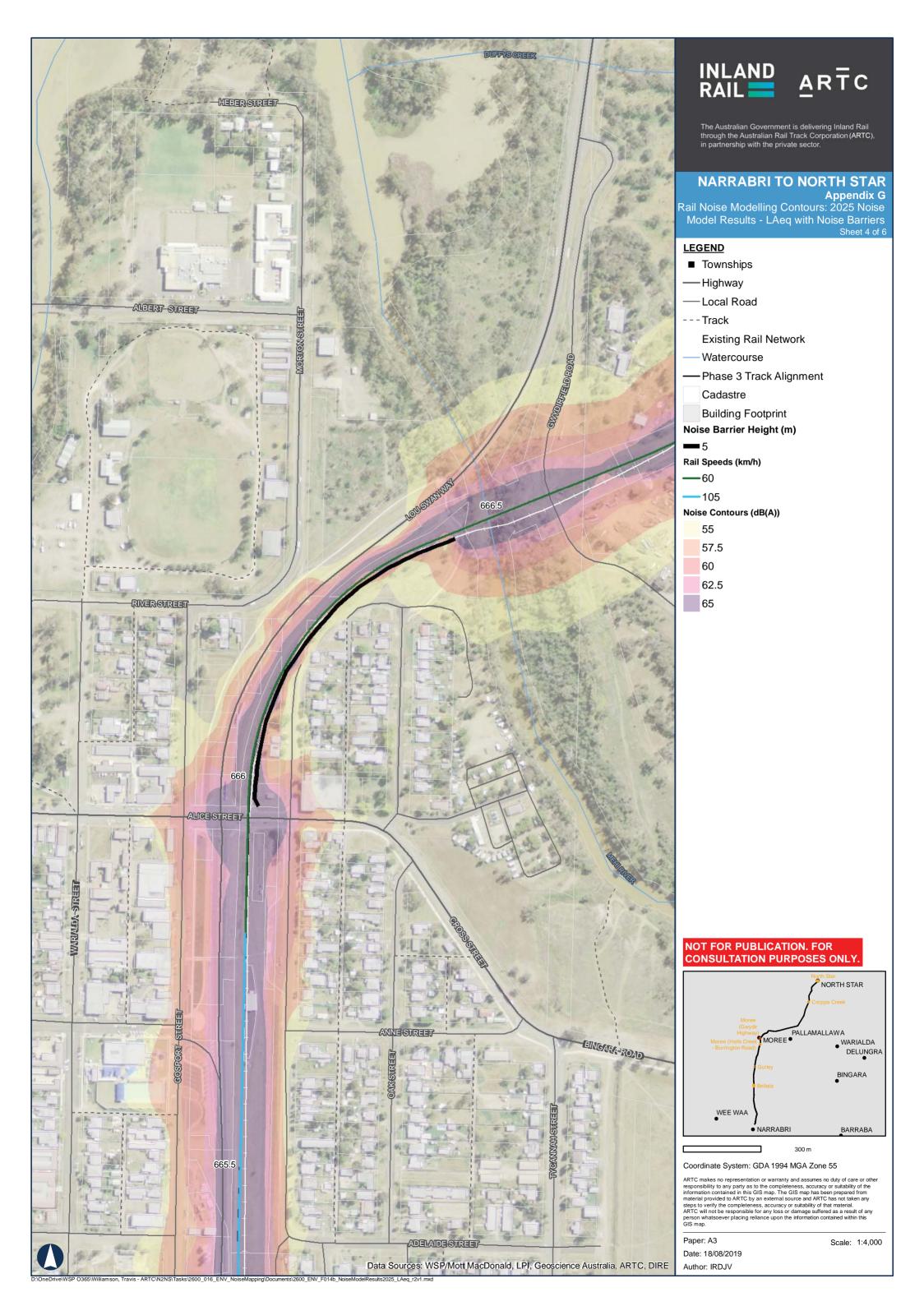
Date: 18/08/2019

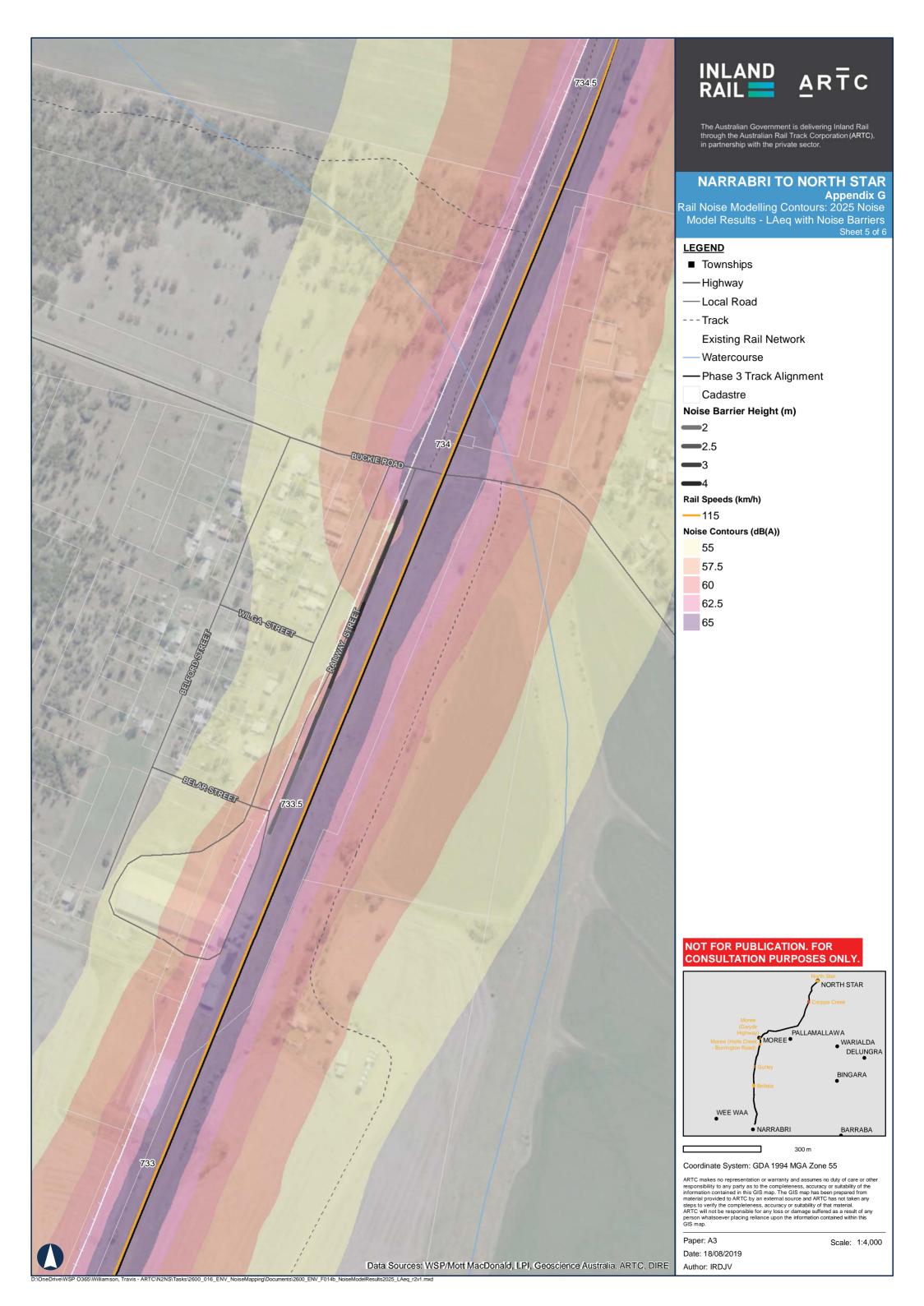
Author: IRDJV













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NARRABRI TO NORTH STAR

Appendix G
Rail Noise Modelling Contours: 2025 Noise
Model Results - LAeq with Noise Barriers

- Townships
- ---Highway
- Local Road
- - **Existing Rail Network**
- Watercourse
- -Phase 3 Track Alignment
- Cadastre
- **Building Footprint**

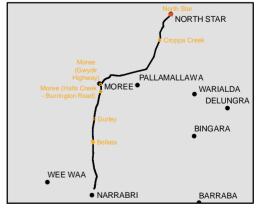
Noise Barrier Height (m)

Rail Speeds (km/h)

Noise Contours (dB(A))

62.5

NOT FOR PUBLICATION. FOR CONSULTATION PURPOSES ONLY.

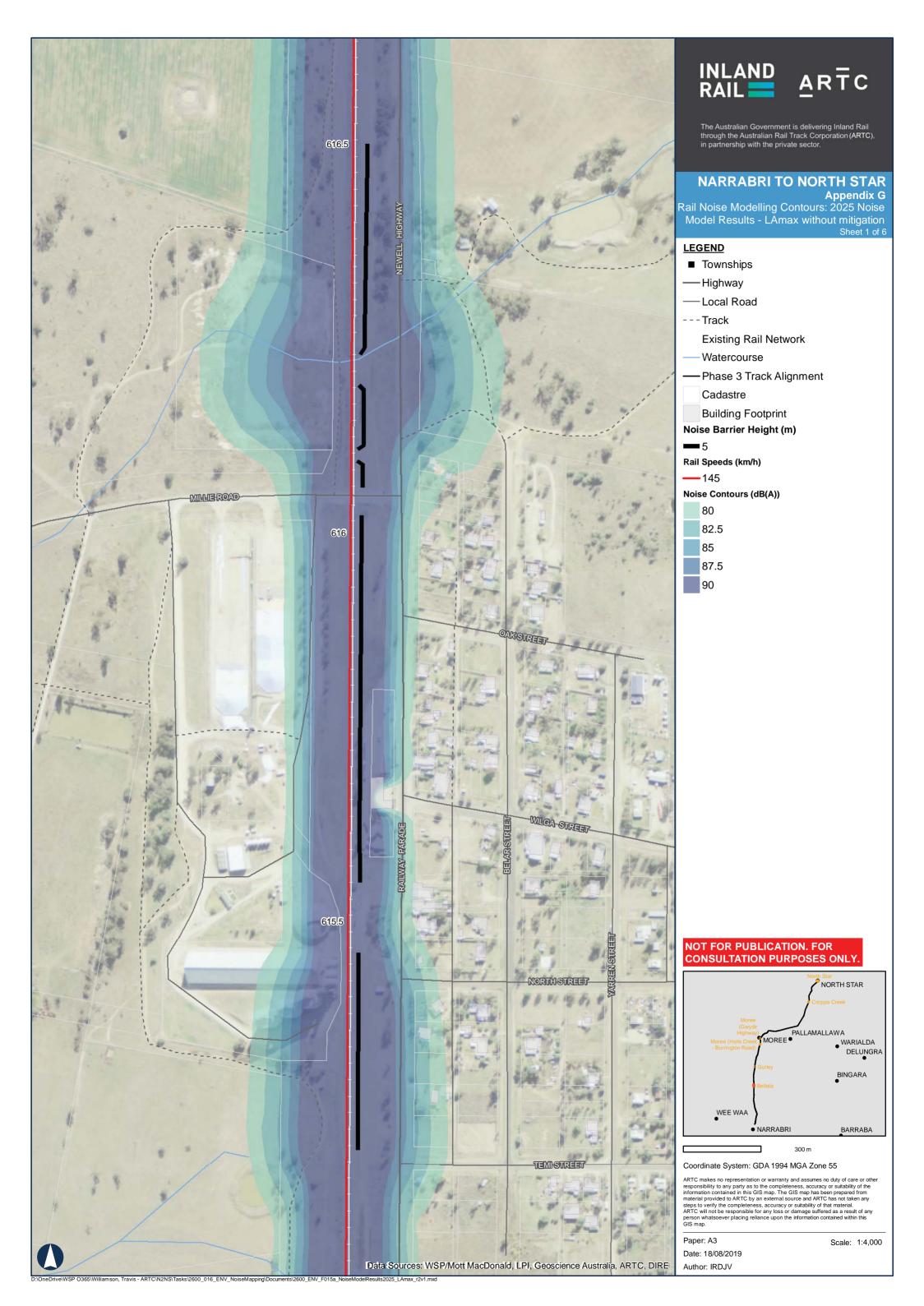


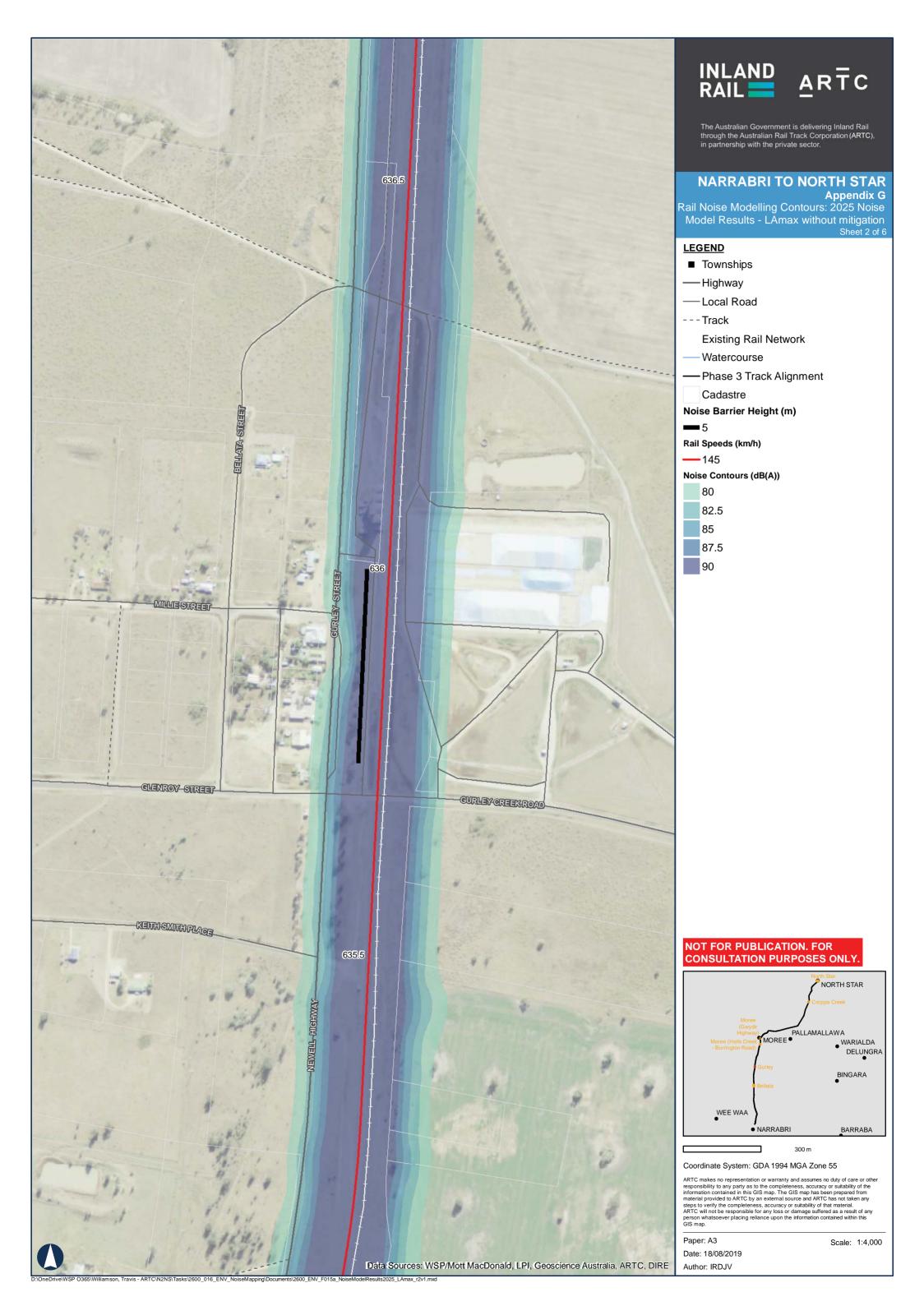
Coordinate System: GDA 1994 MGA Zone 55

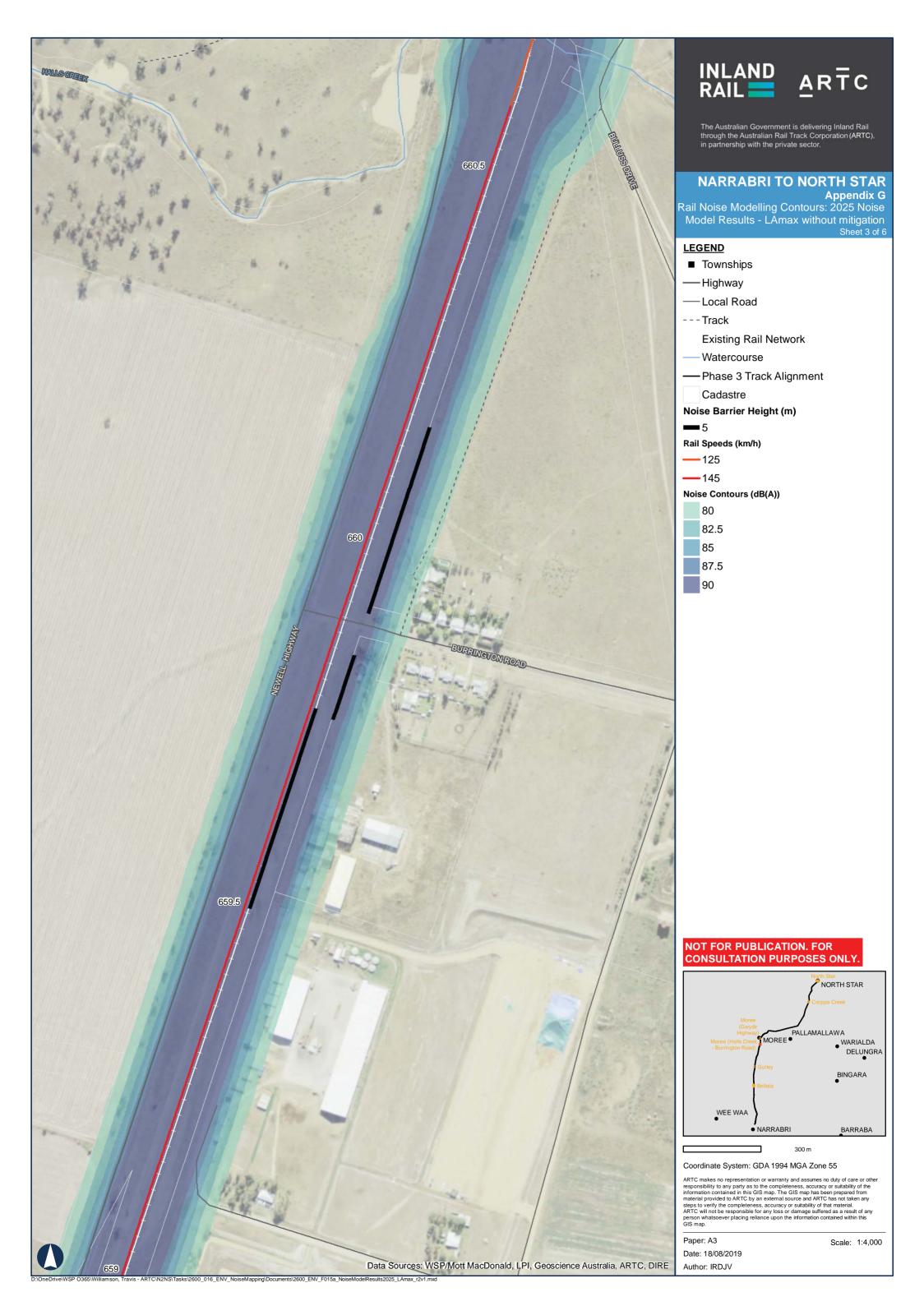
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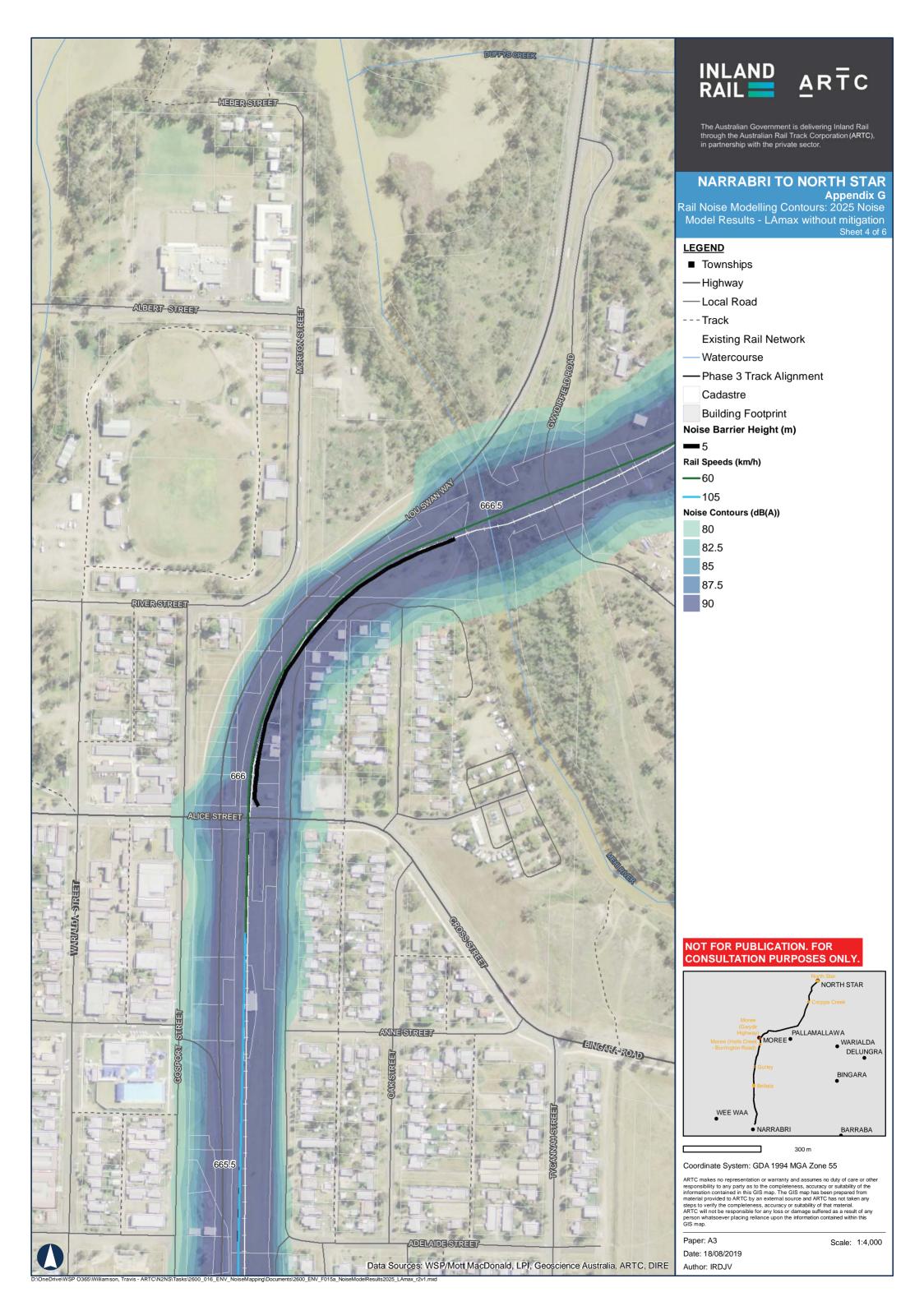
300 m

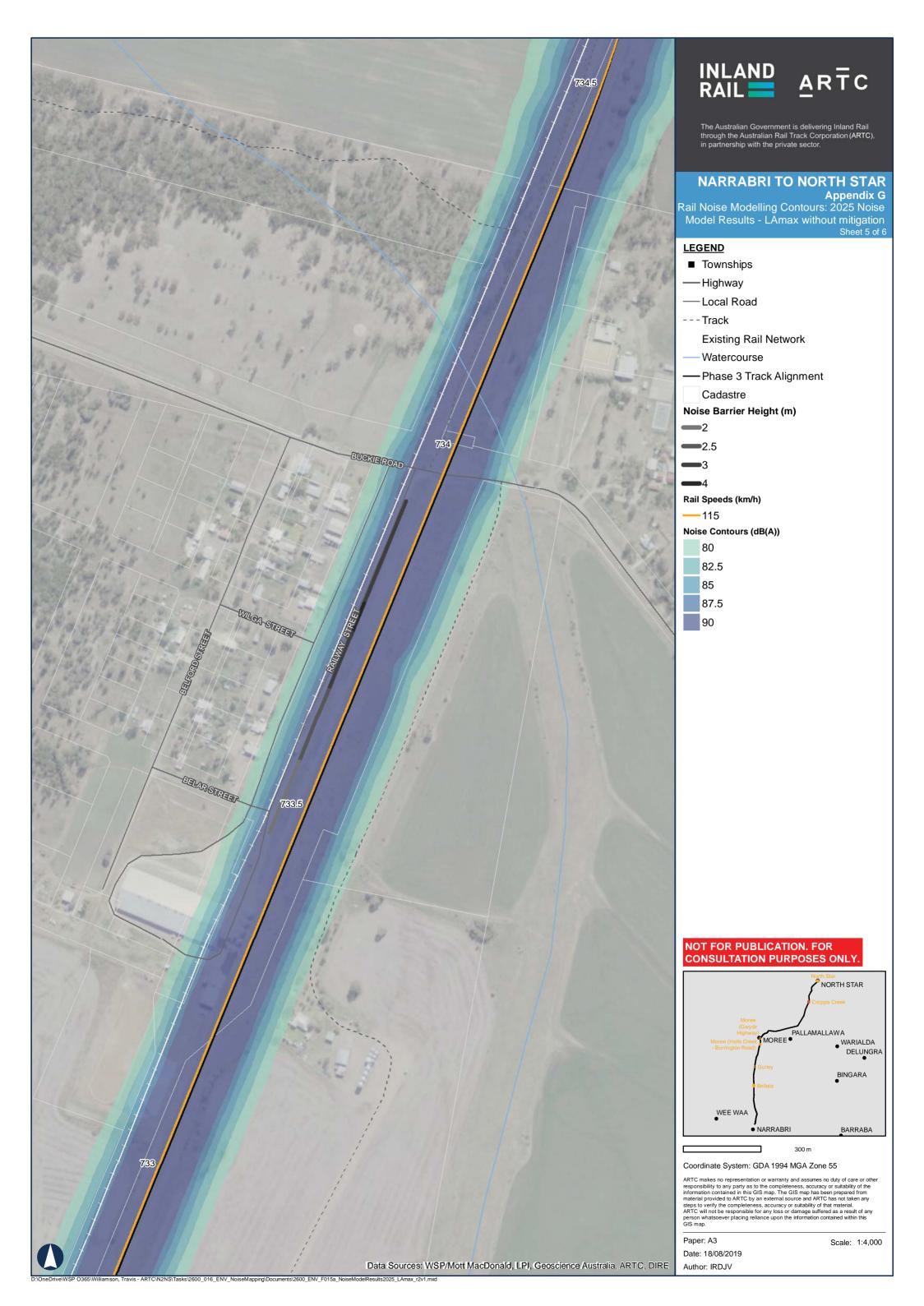
Author: IRDJV











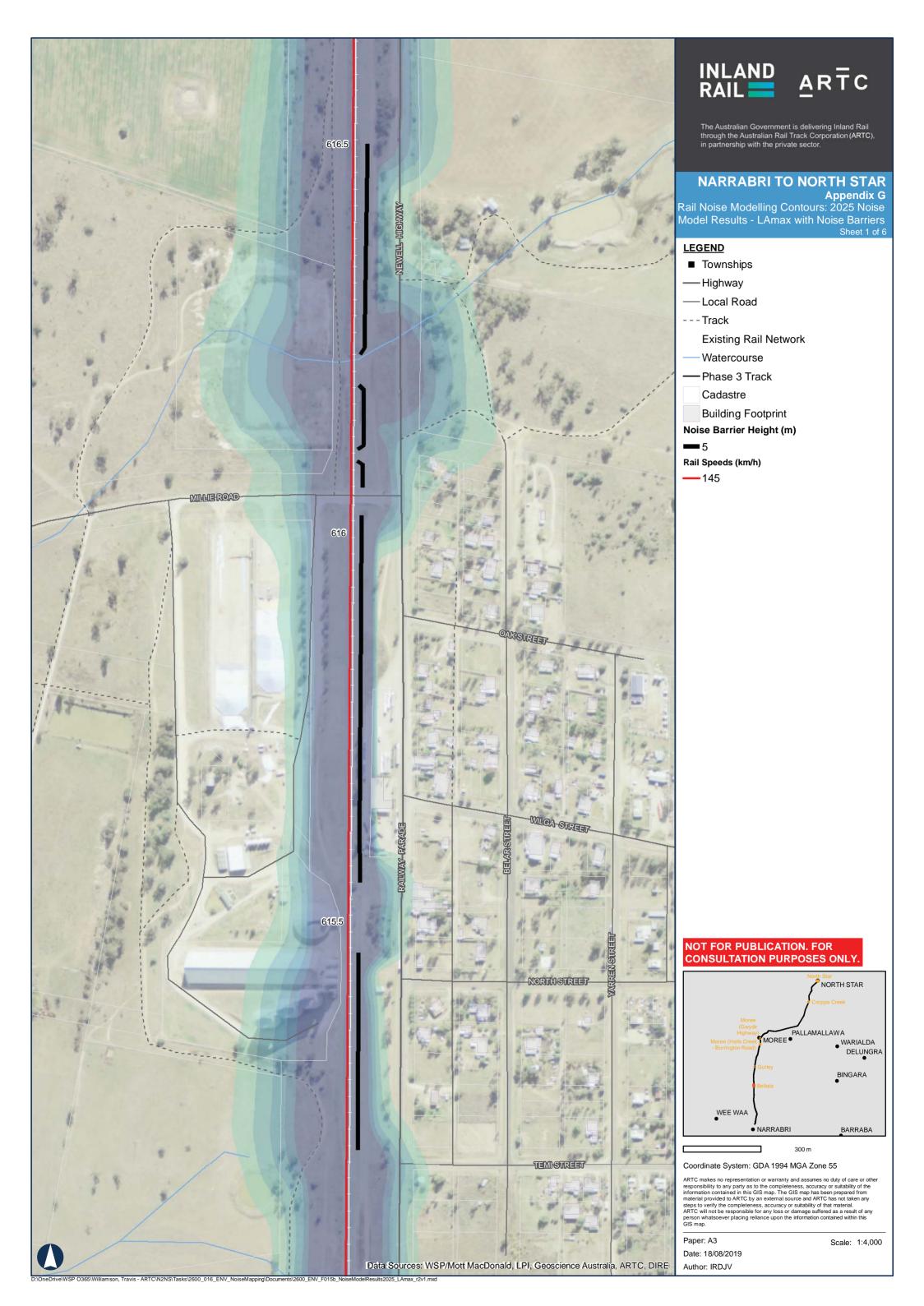


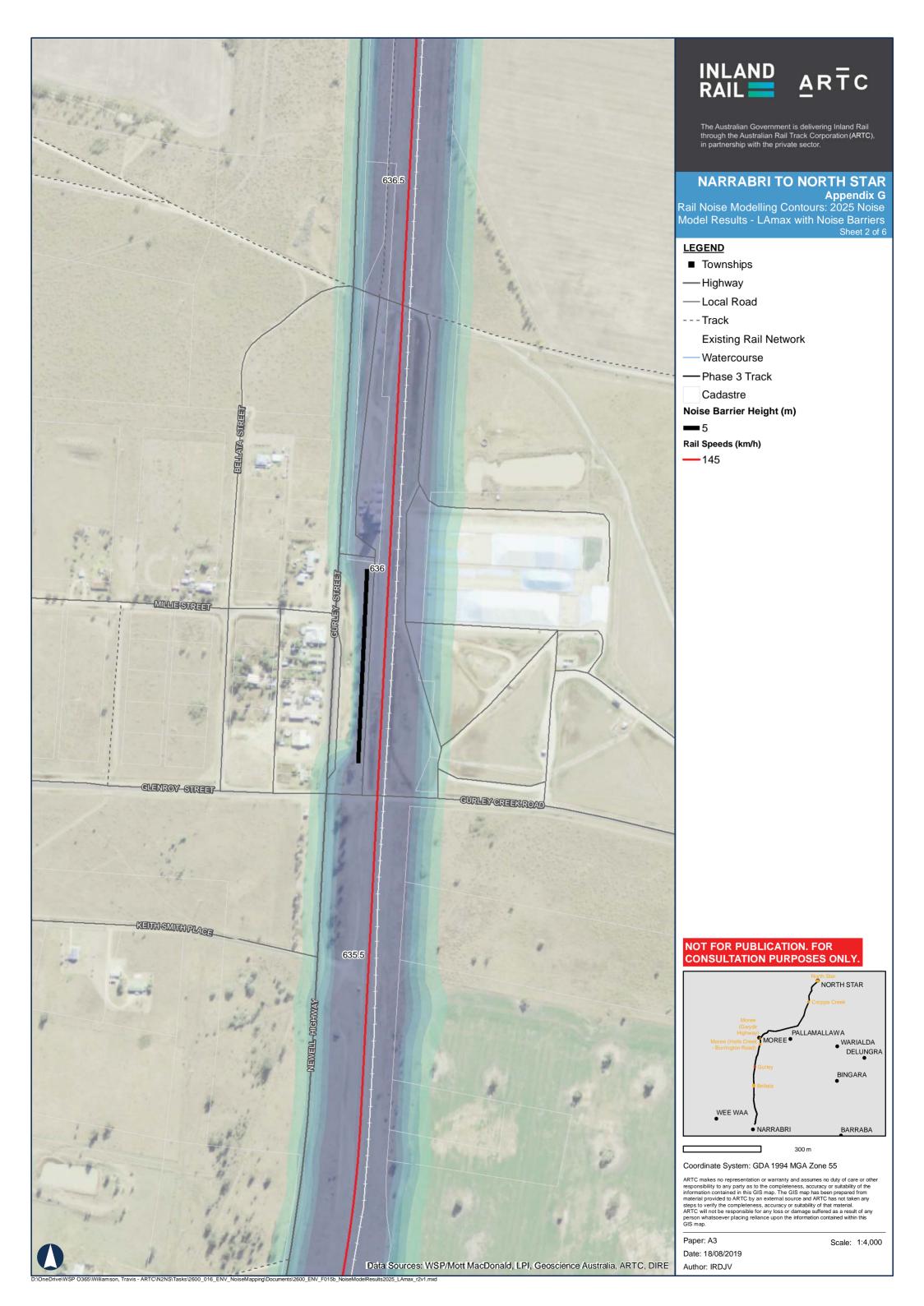
• WARIALDA DELUNGRA

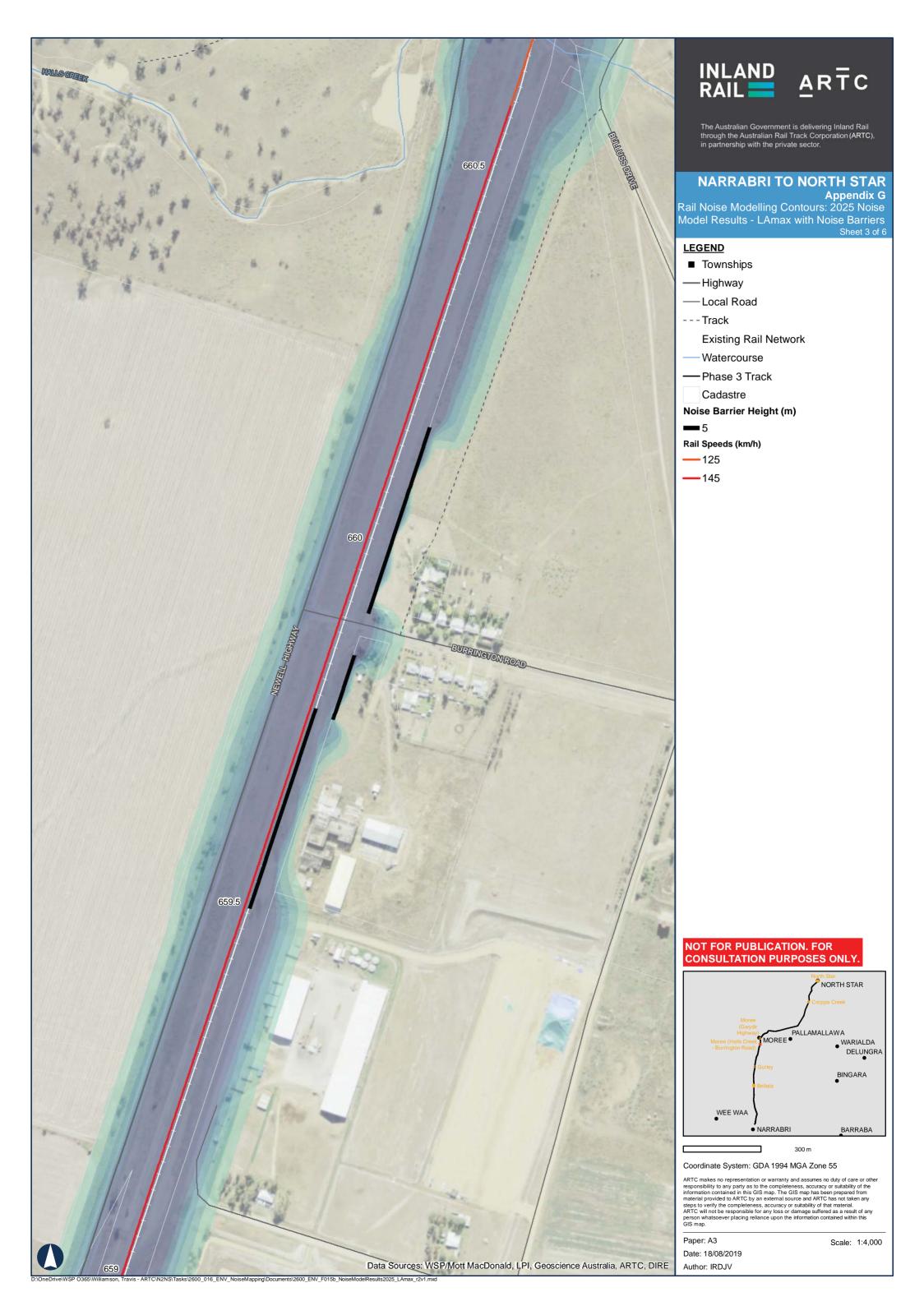
BINGARA

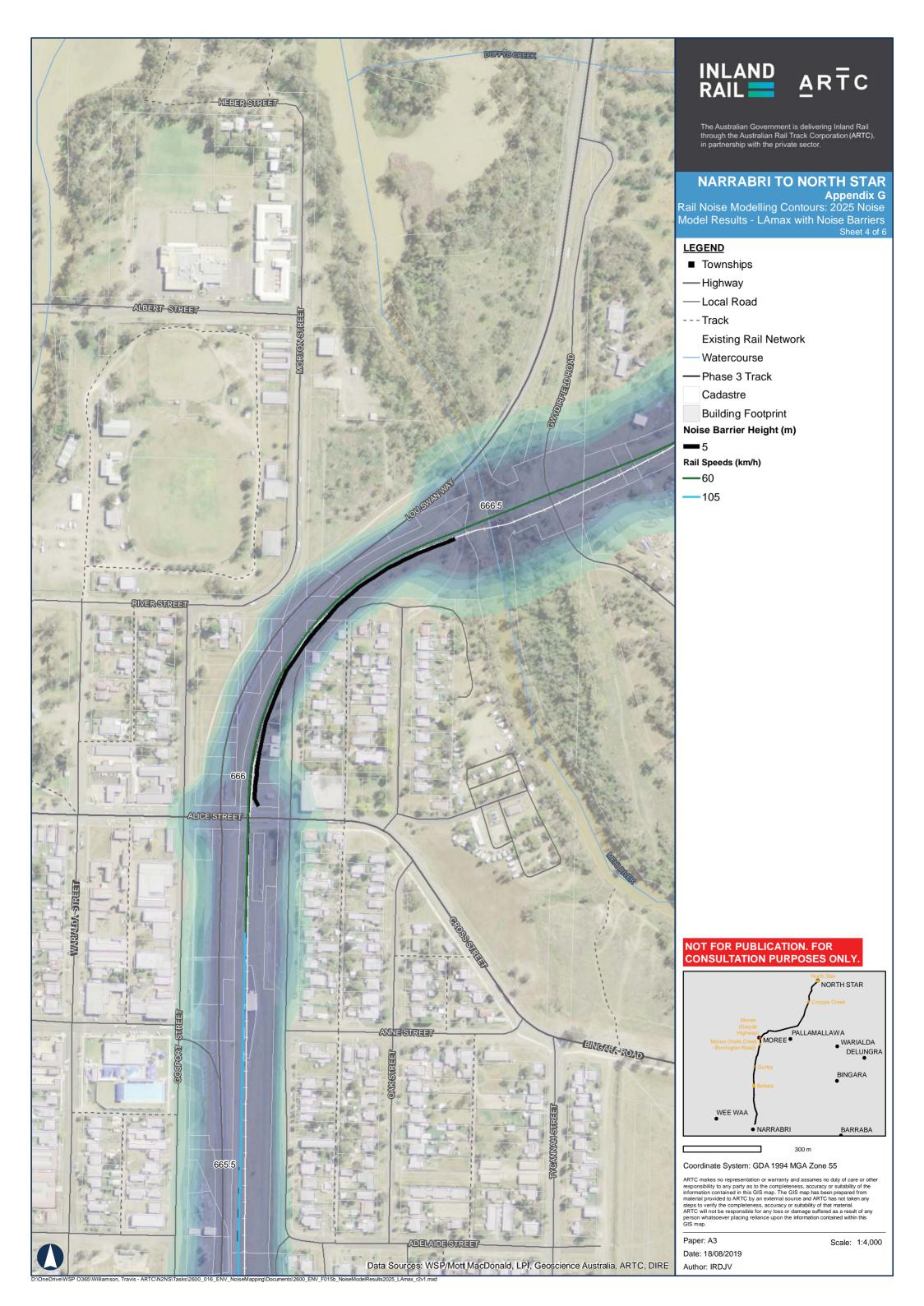
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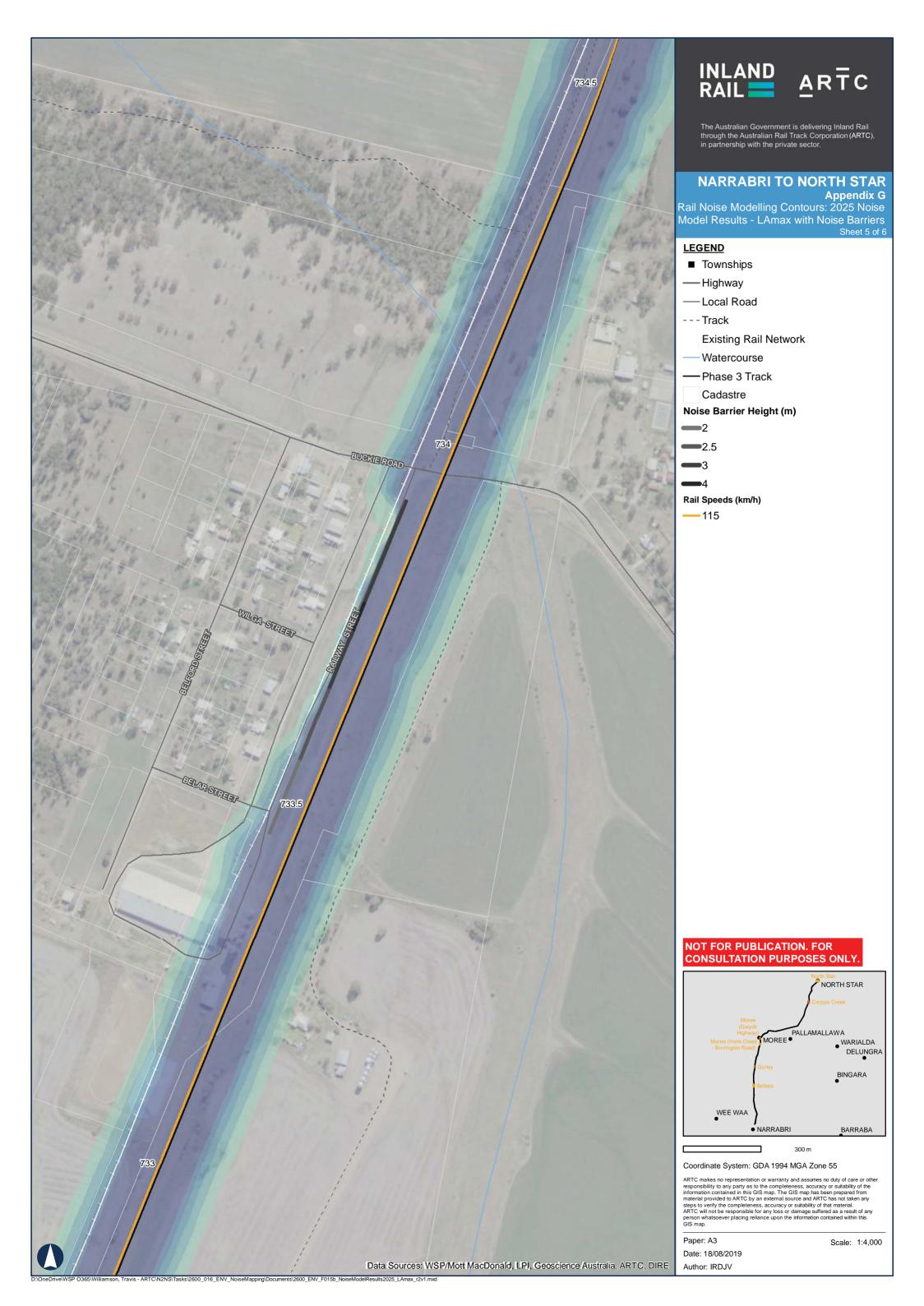
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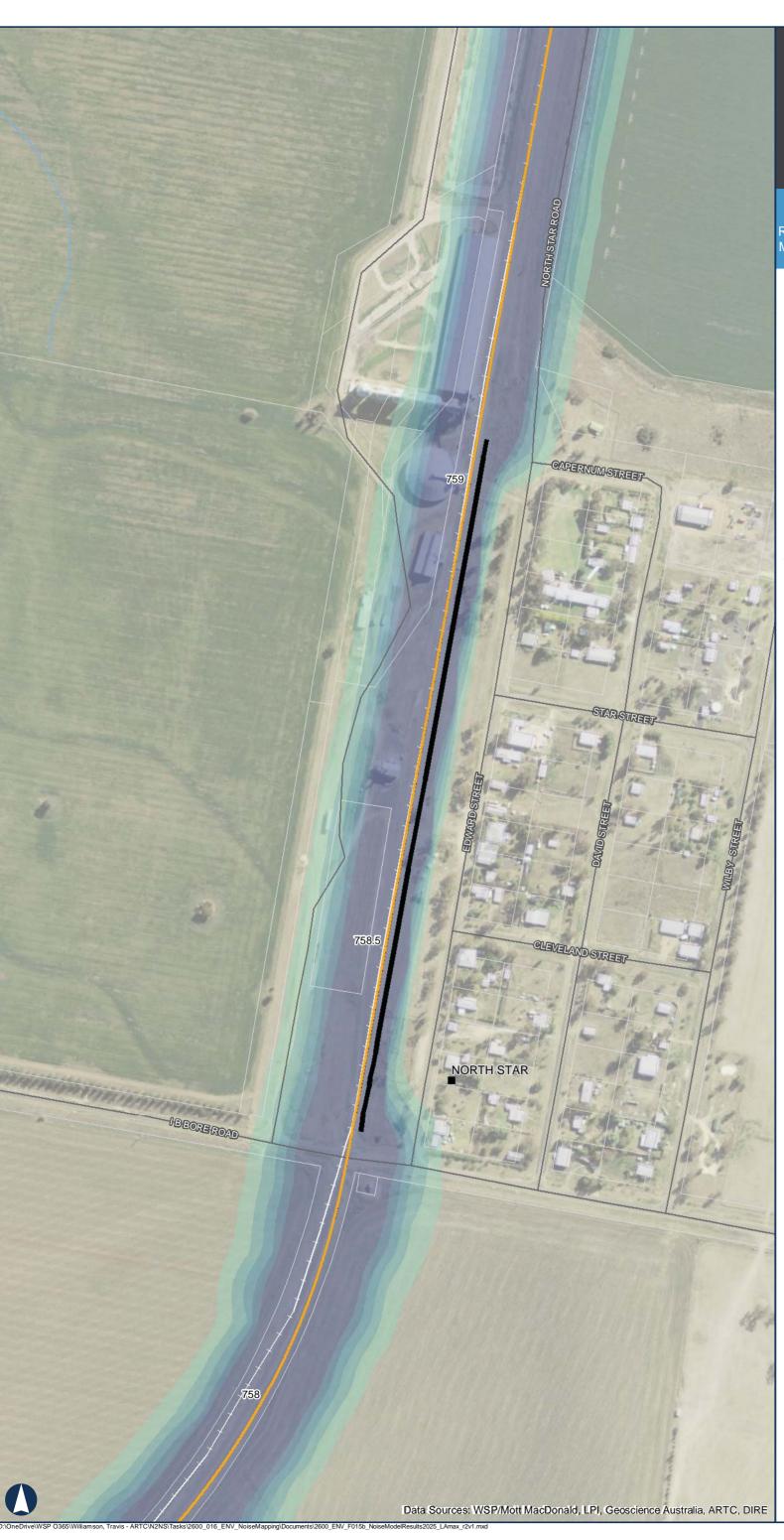












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NARRABRI TO NORTH STAR

Appendix G
Rail Noise Modelling Contours: 2025 Noise
Model Results - LAmax with Noise Barriers

LEGEND

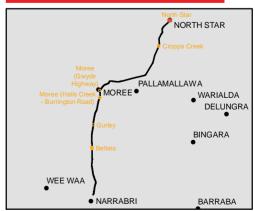
- Townships
- ---Highway
- Local Road
- ---Track
 - **Existing Rail Network**
- Watercourse
- -Phase 3 Track
- Cadastre
- **Building Footprint**

Noise Barrier Height (m)

Rail Speeds (km/h)

---115

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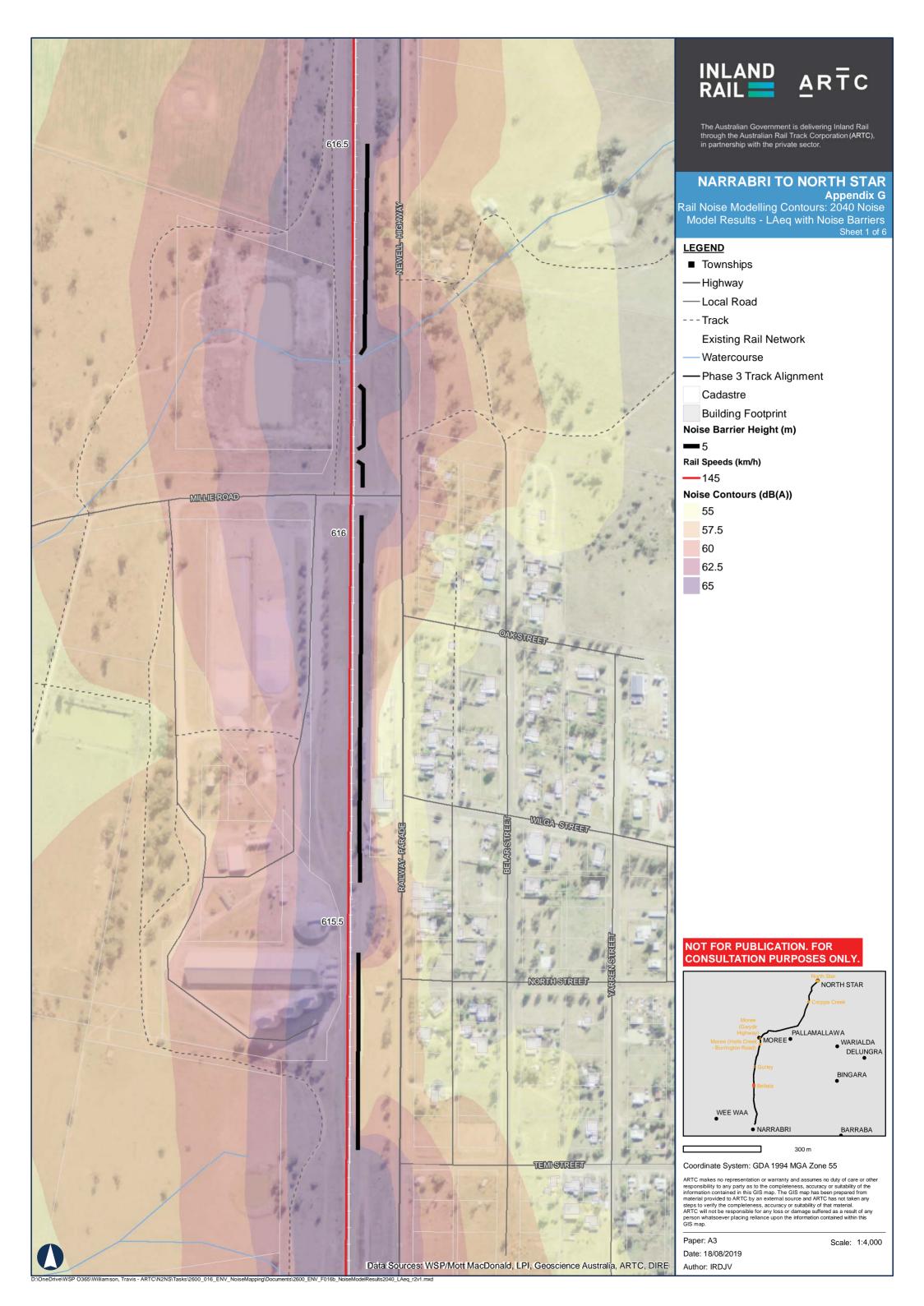
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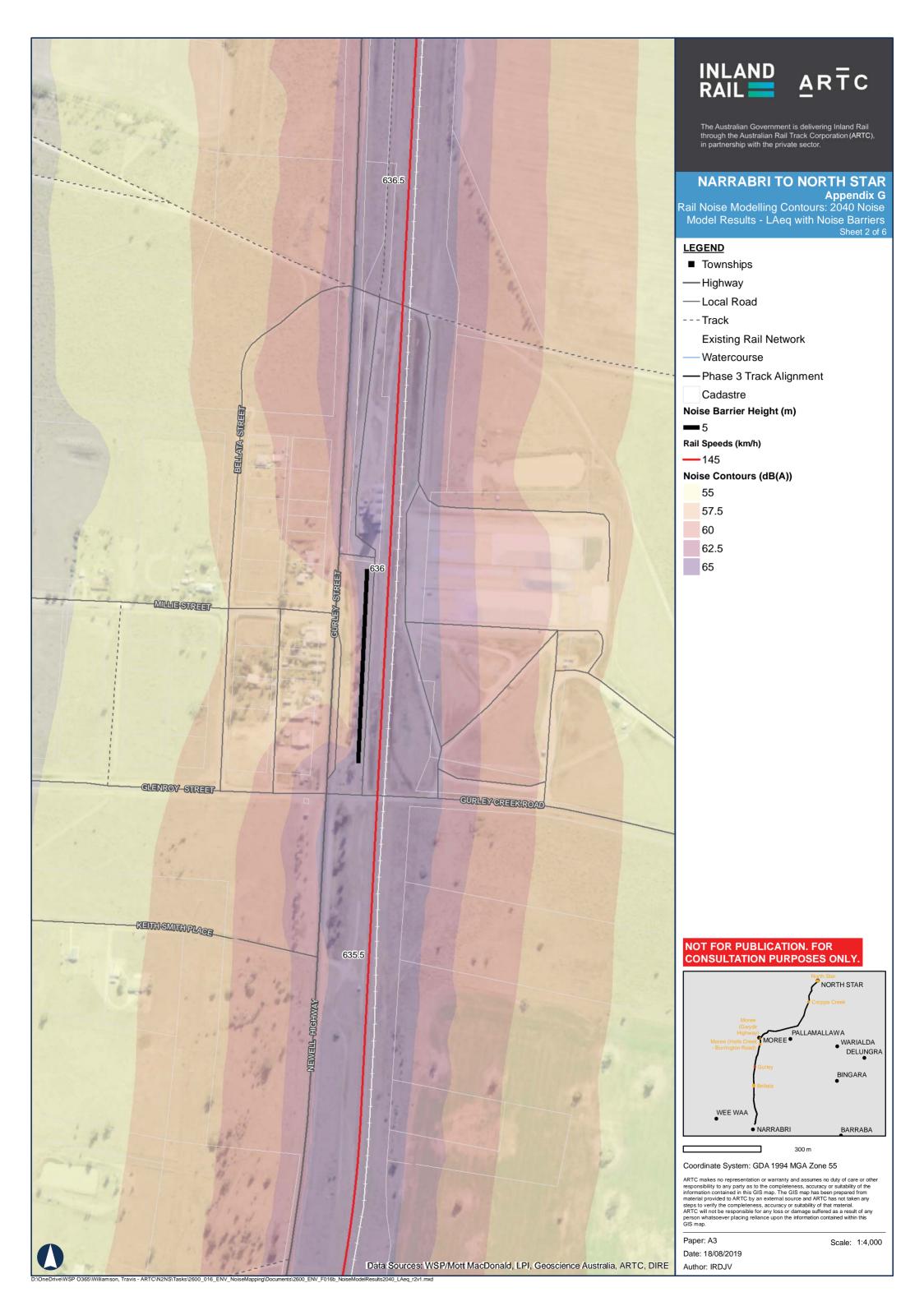
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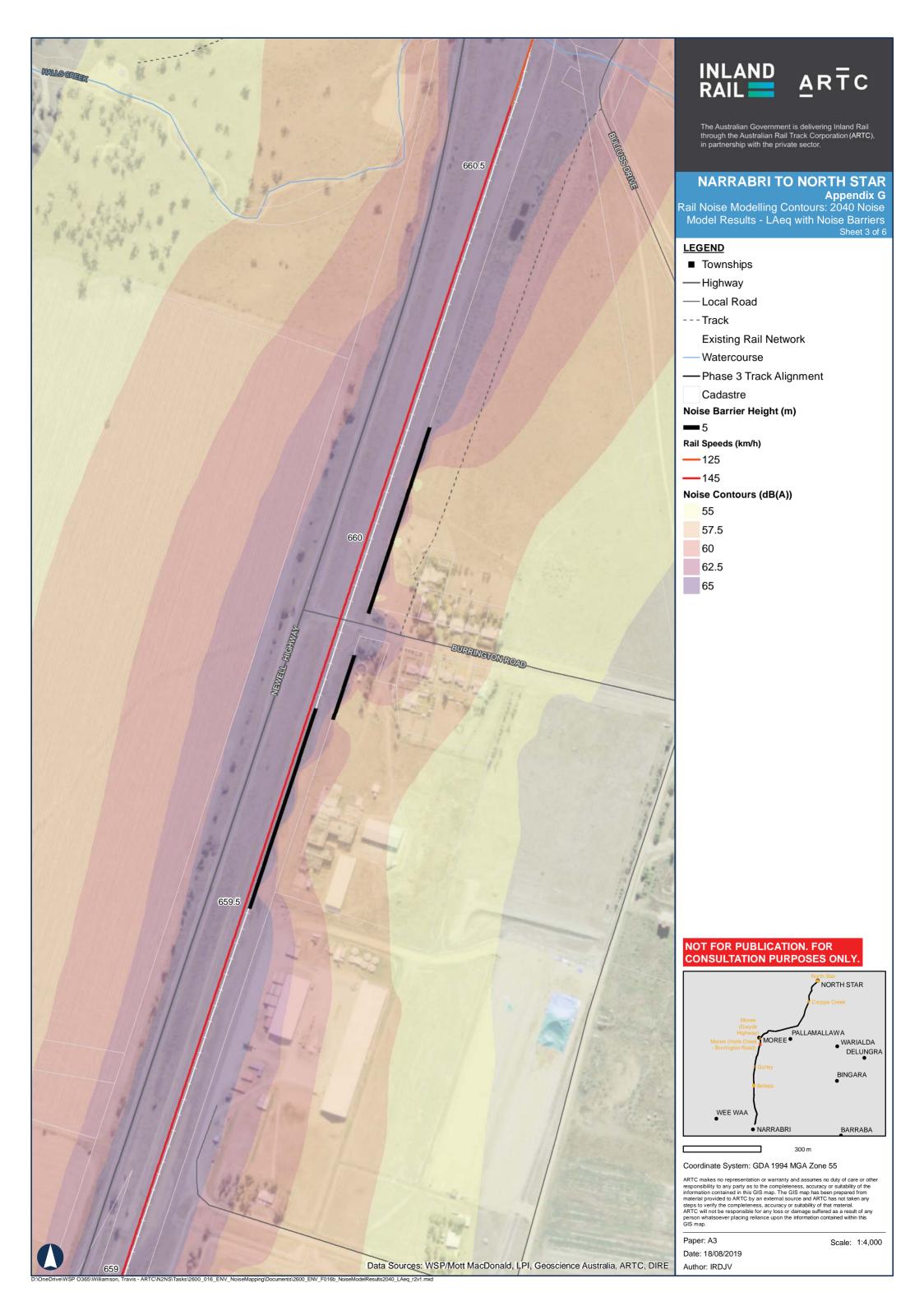
300 m

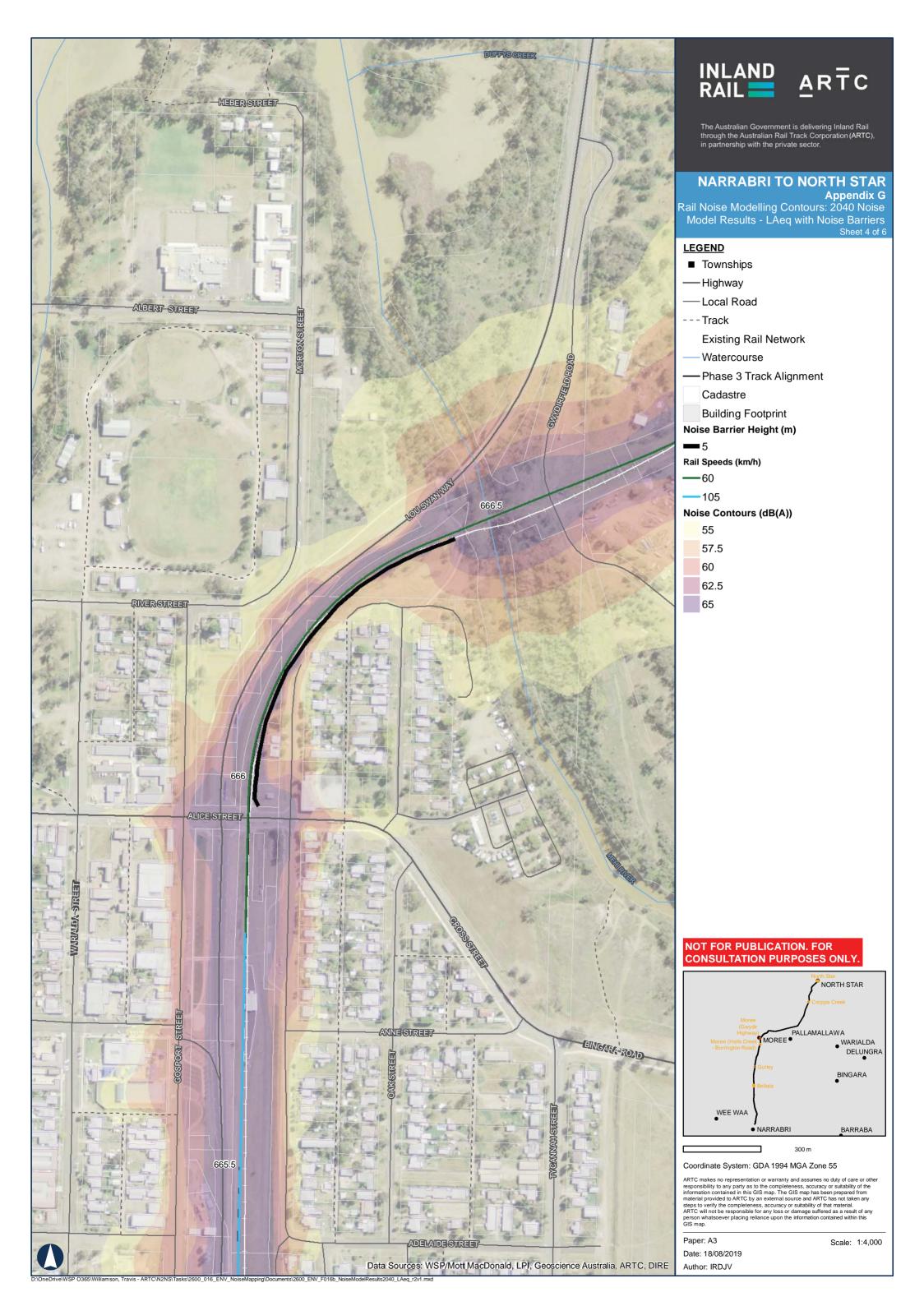
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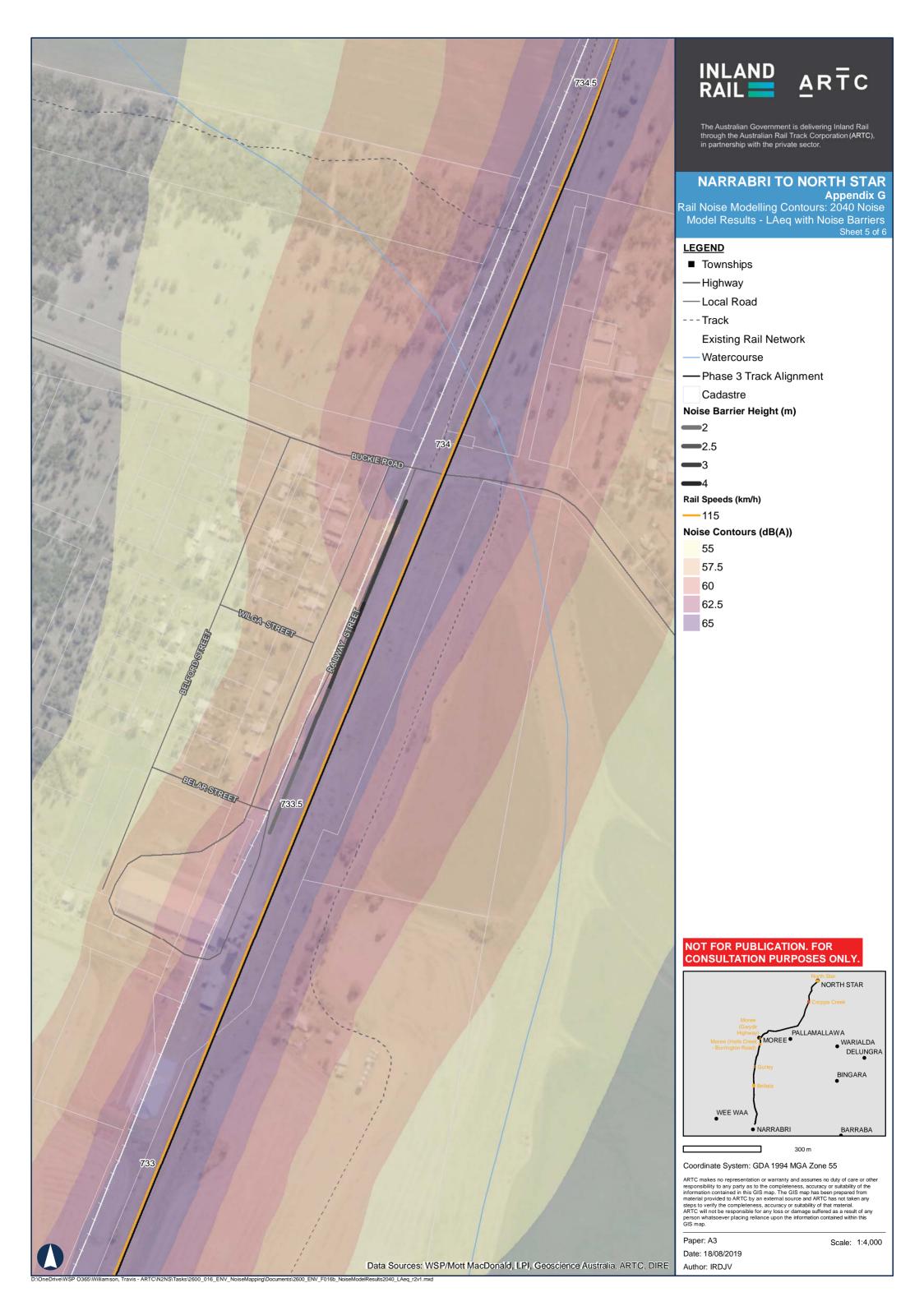
Date: 18/08/2019 Author: IRDJV













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NARRABRI TO NORTH STAR

Appendix G
Rail Noise Modelling Contours: 2040 Noise
Model Results - LAeq with Noise Barriers

LEGEND

- Townships
- Highway
- -Local Road
- ---Track
 - **Existing Rail Network**
- Watercourse
- -Phase 3 Track Alignment
 - Cadastre
 - **Building Footprint**

Noise Barrier Height (m)

Rail Speeds (km/h)

Noise Contours (dB(A))

55

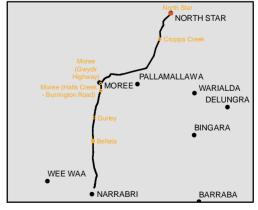
57.5

60

62.5

65

NOT FOR PUBLICATION. FOR CONSULTATION PURPOSES ONLY.

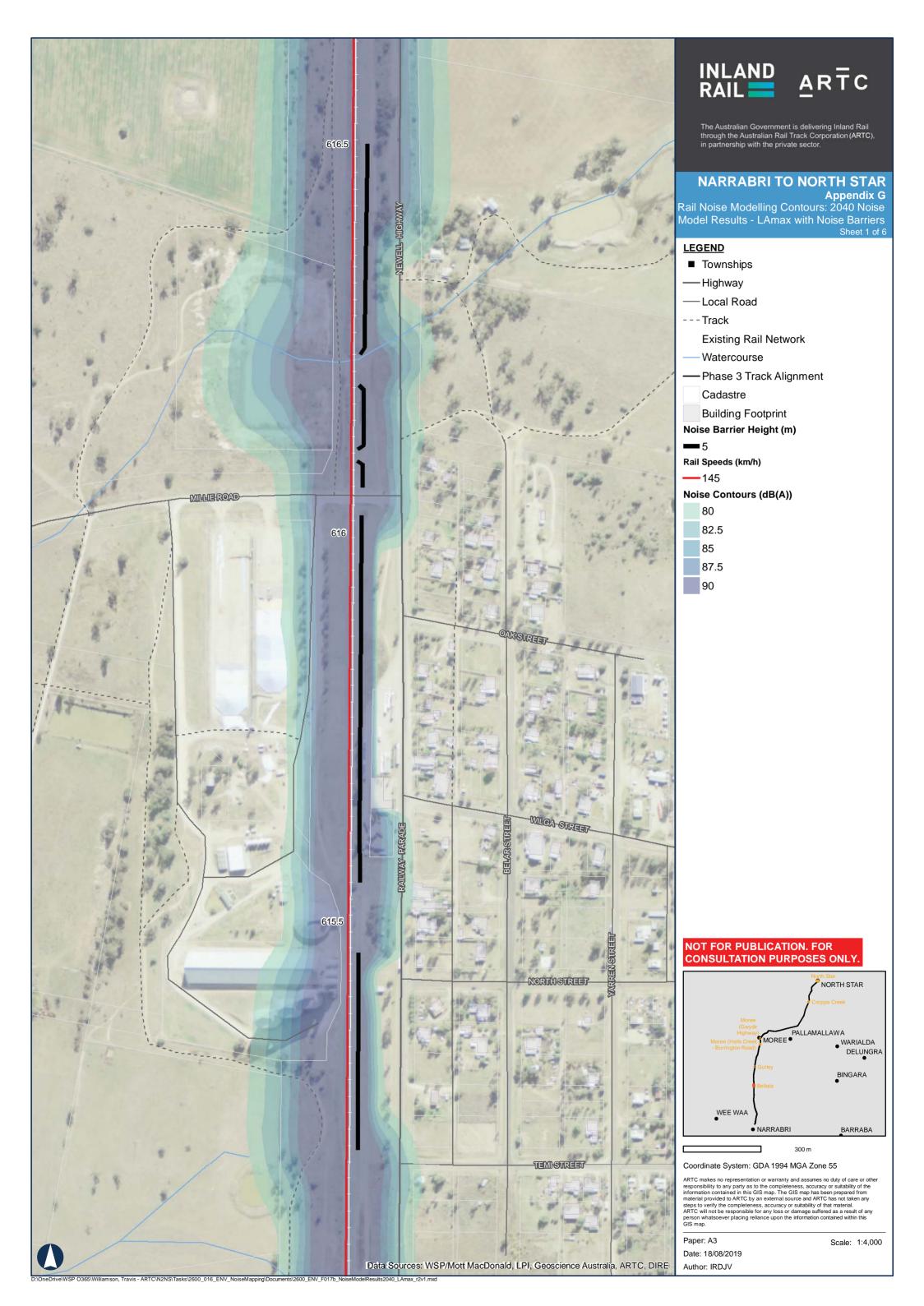


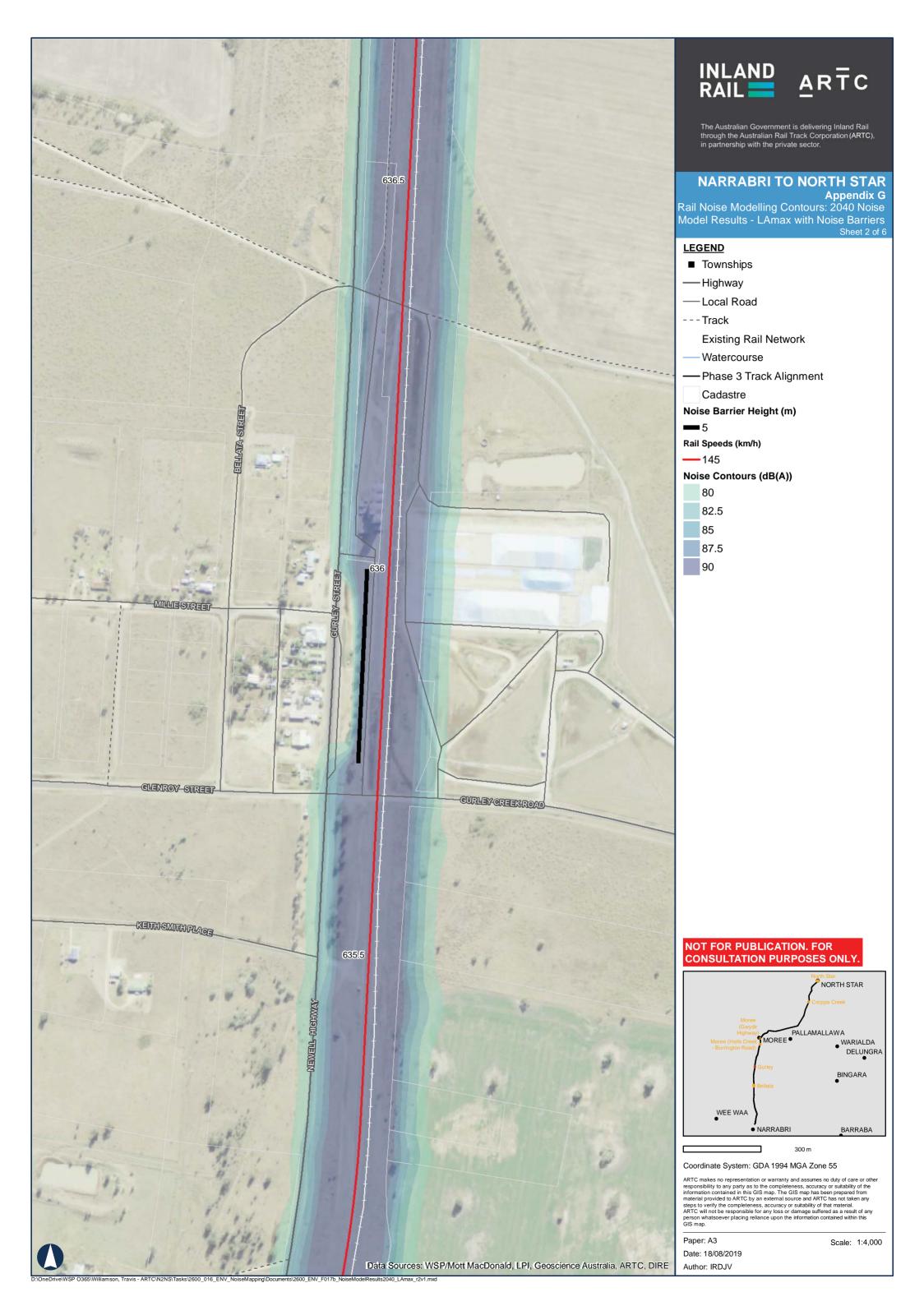
Coordinate System: GDA 1994 MGA Zone 55

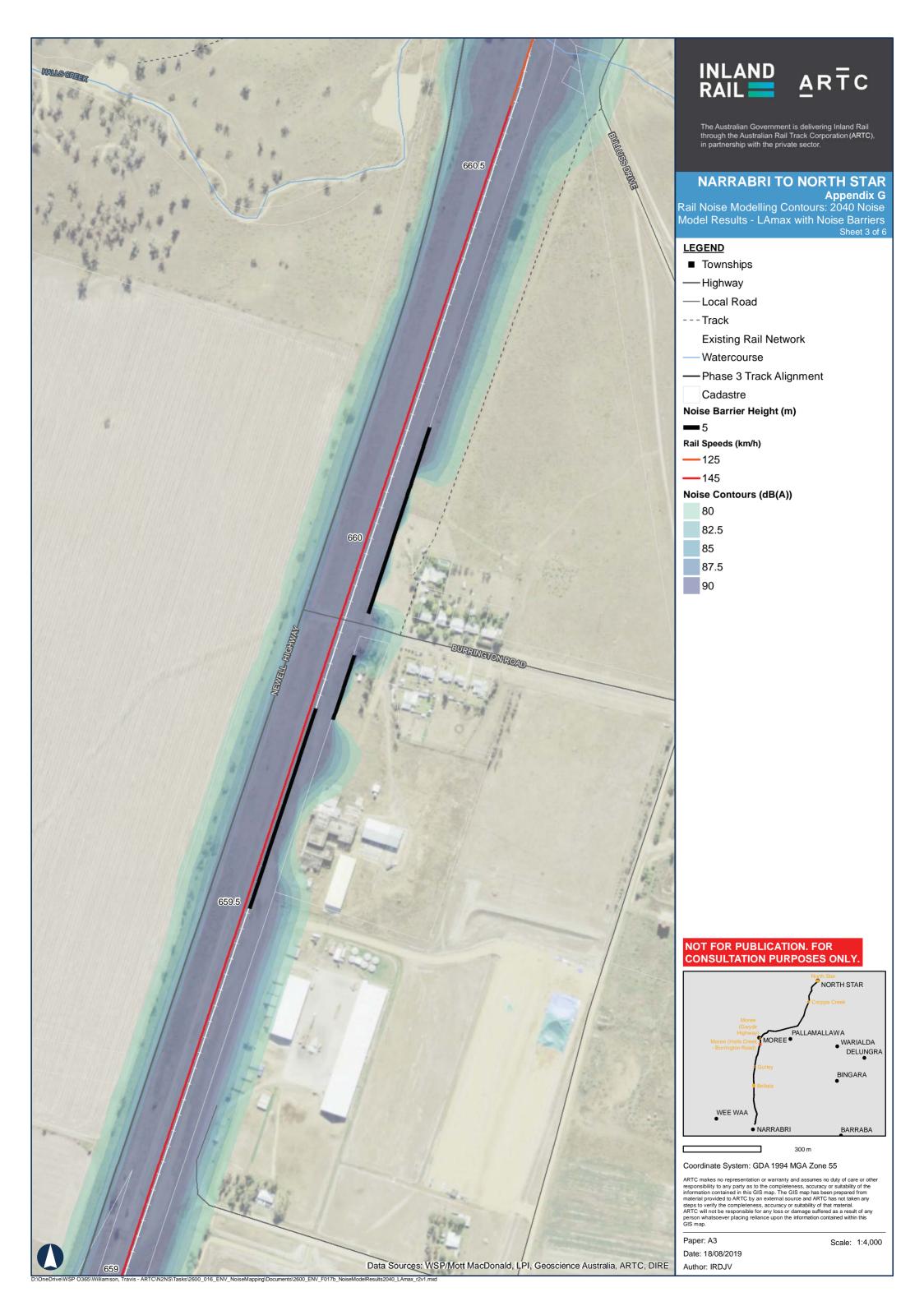
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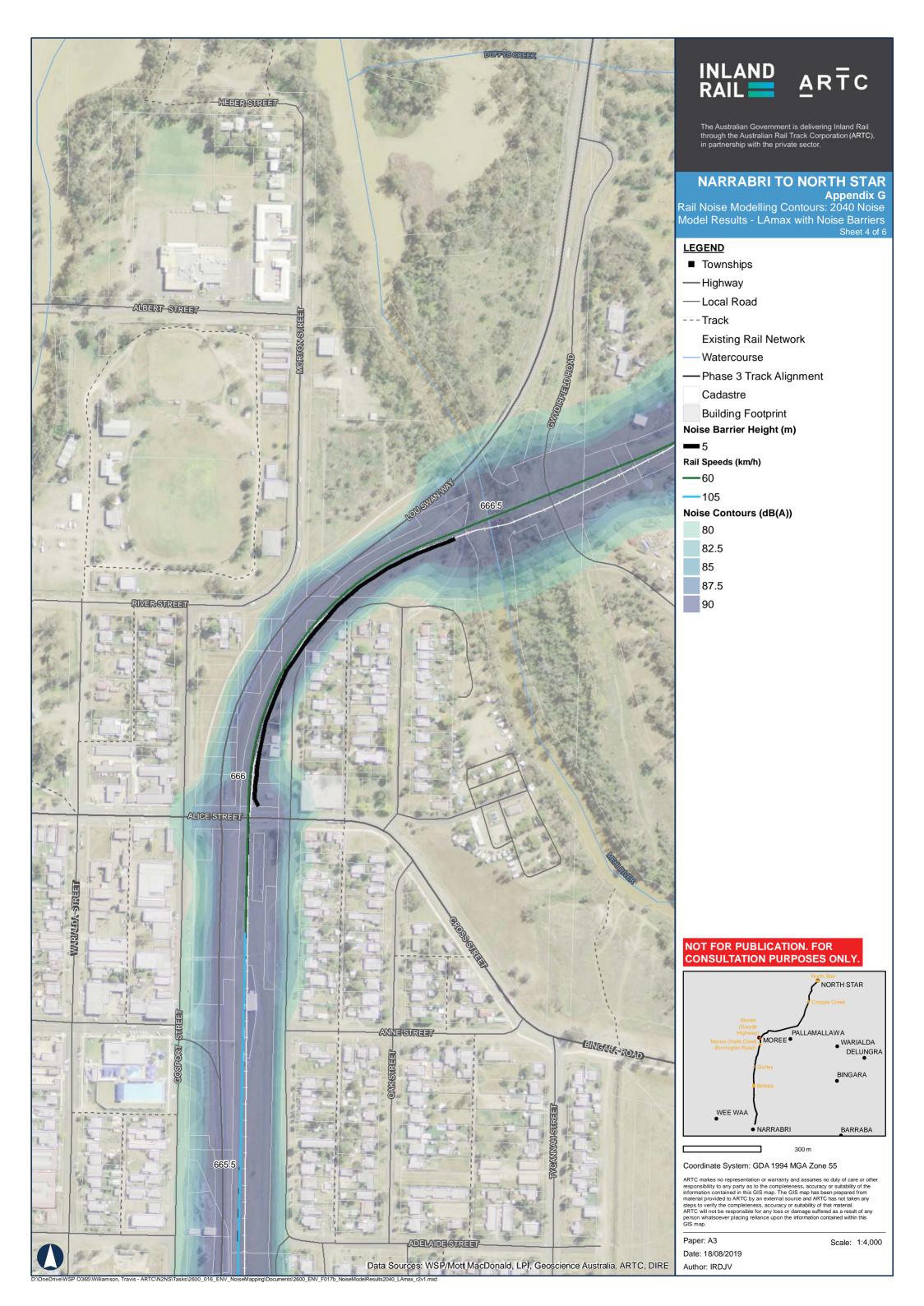
300 m

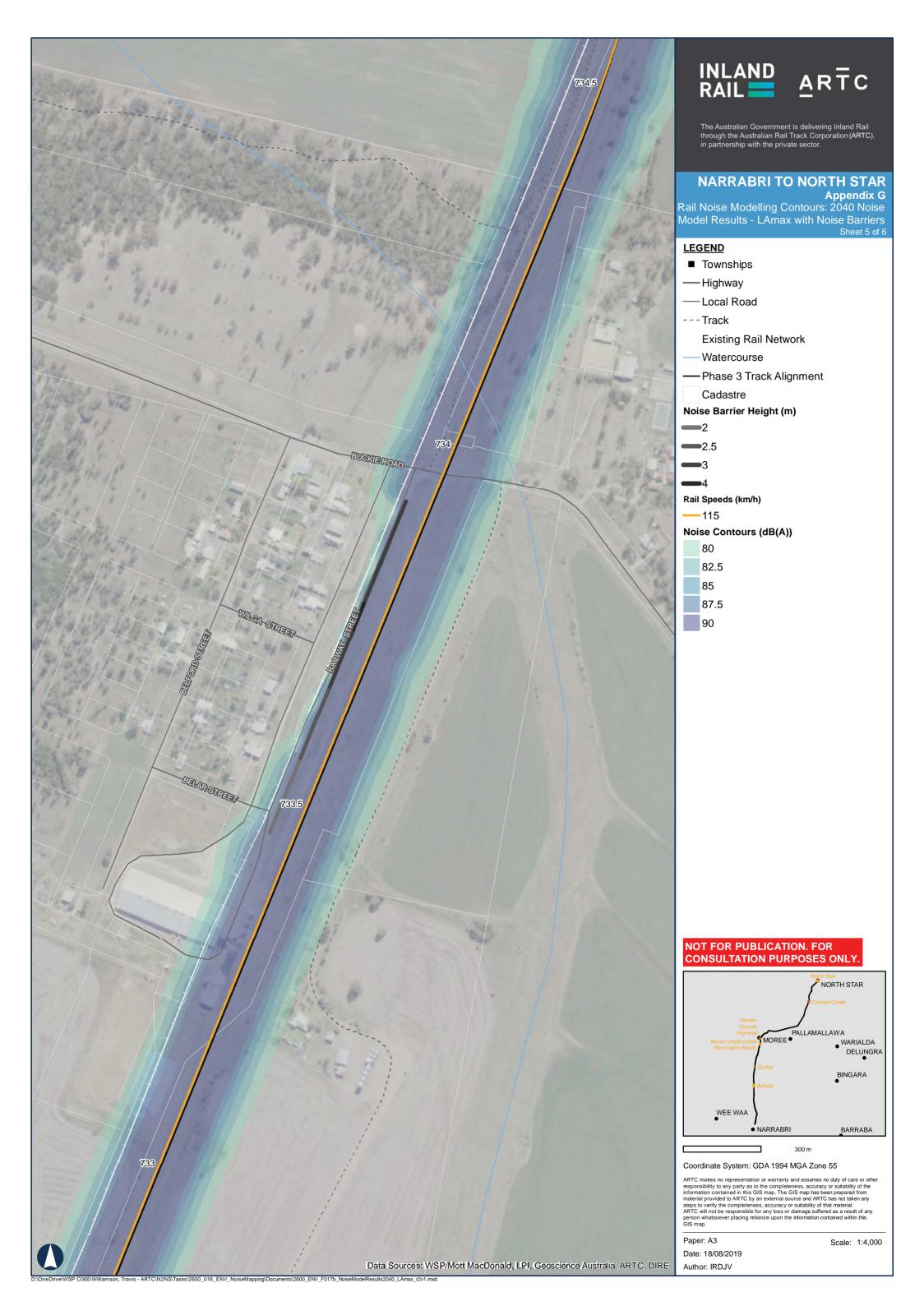
Author: IRDJV

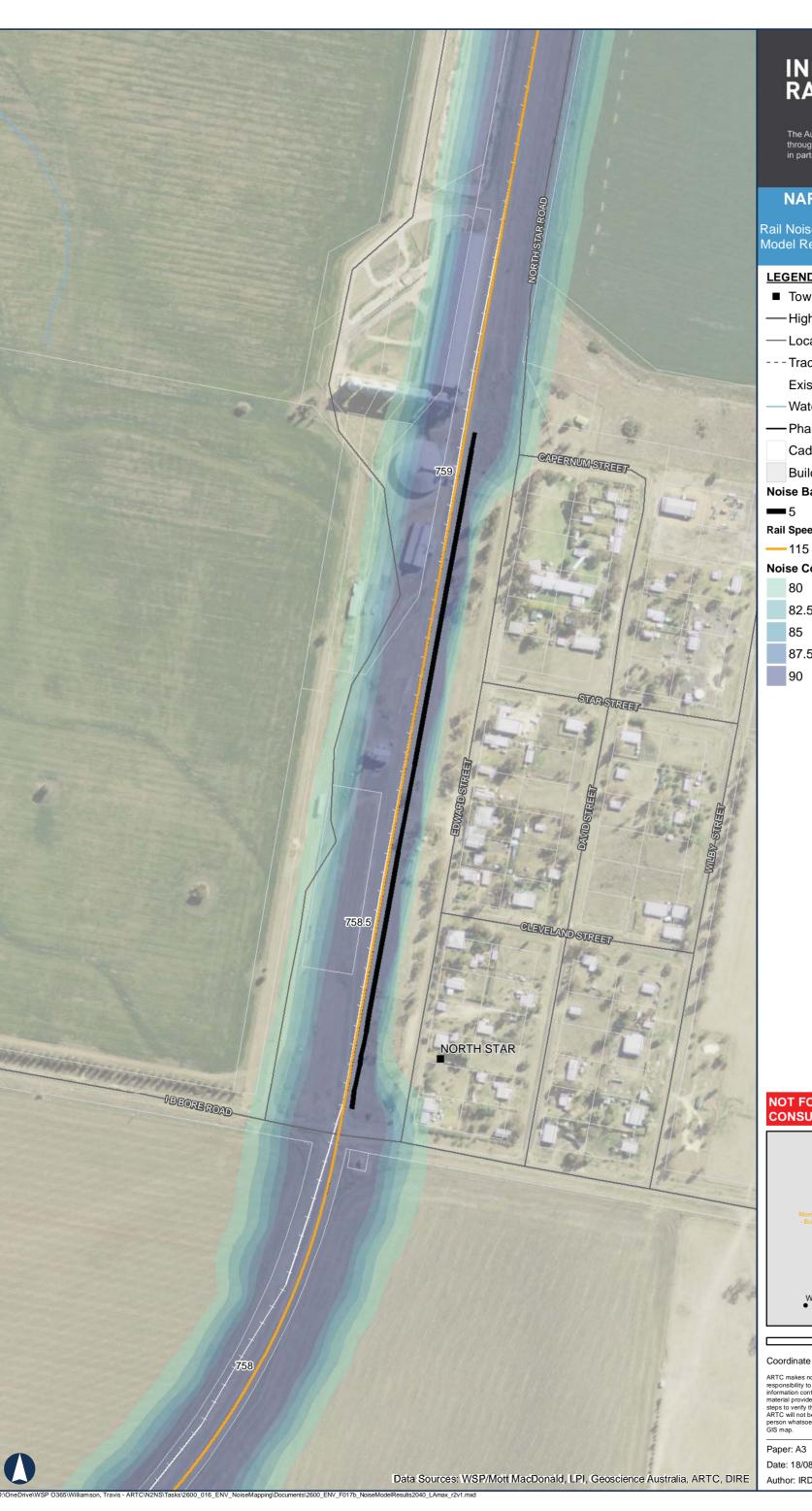












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NARRABRI TO NORTH STAR

Appendix G
Rail Noise Modelling Contours: 2040 Noise
Model Results - LAmax with Noise Barriers

LEGEND

- Townships
- ---Highway
- -Local Road
- ---Track
 - **Existing Rail Network**
- Watercourse
- -Phase 3 Track Alignment
 - Cadastre
- **Building Footprint**

Noise Barrier Height (m)

Rail Speeds (km/h)

Noise Contours (dB(A))

80

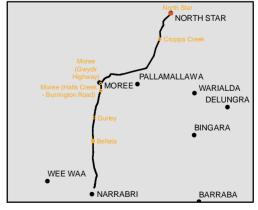
82.5

85

87.5

90

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300 m Coordinate System: GDA 1994 MGA Zone 55

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Paper: A3 Scale: 1:4,000

Date: 18/08/2019 Author: IRDJV