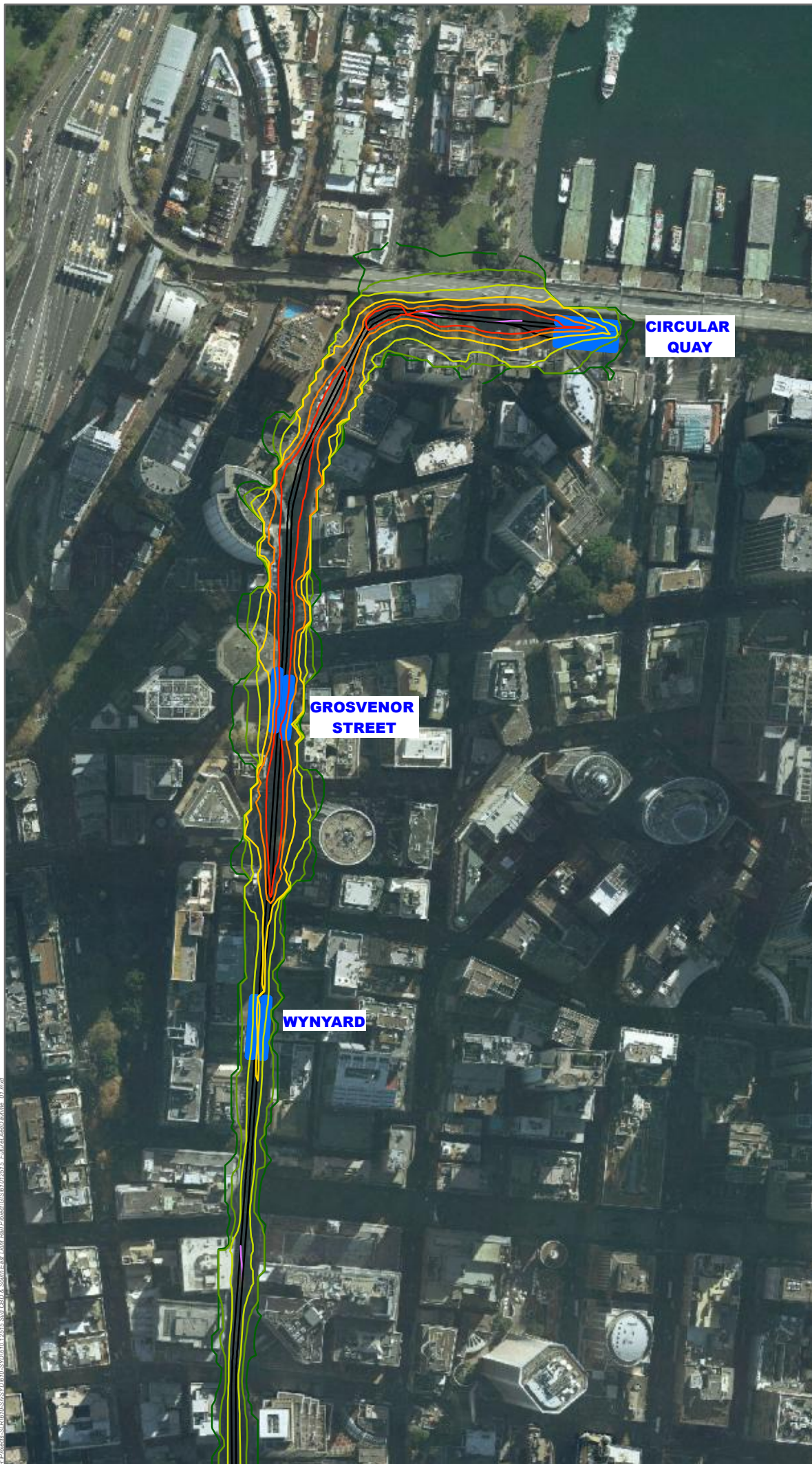


Operational Noise Contours



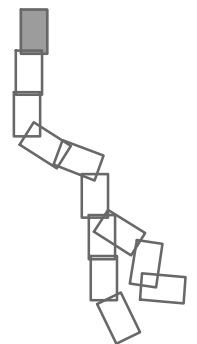
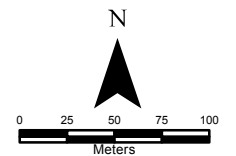
LEGEND

Airborne Noise

- 50 dBA
- 52 dBA
- 54 dBA
- 56 dBA
- 58 dBA
- 60 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* RING Airborne Light Rail Residential Trigger Level
Daytime = 60 dBA LAeq(15hour)



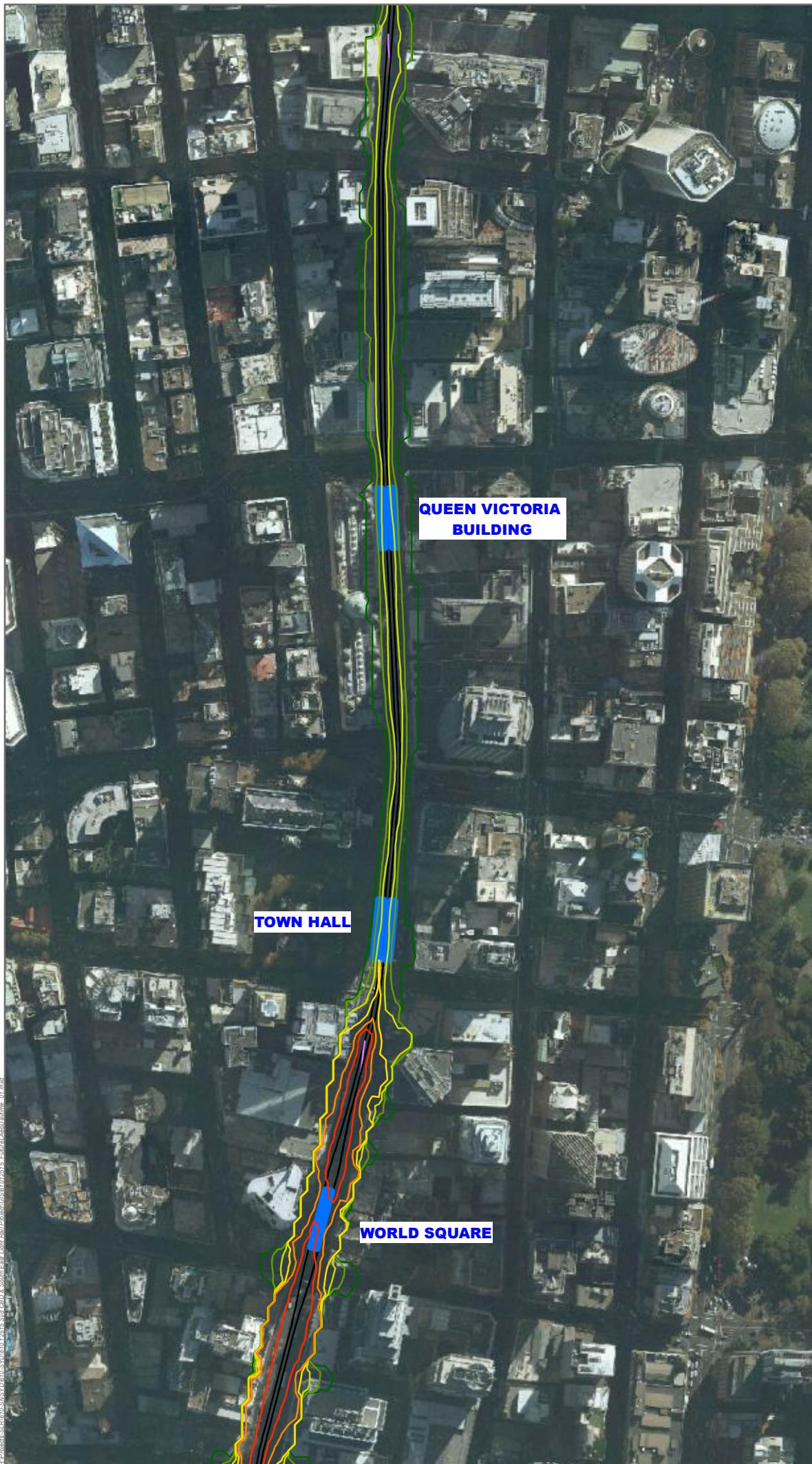
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**Sydney CBD & South East
 Light Rail Project**
**Future LAeq(15hour) Daytime
 Airborne Noise**

DRAWING 1 - 1



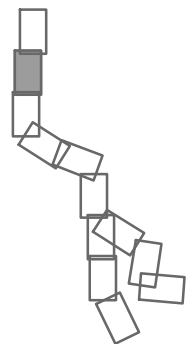
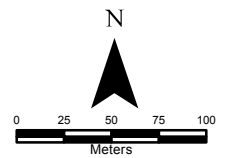
LEGEND

Airborne Noise

- 50 dBA
- 52 dBA
- 54 dBA
- 56 dBA
- 58 dBA
- 60 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* RING Airborne Light Rail Residential Trigger Level
Daytime = 60 dBA LAeq(15hour)



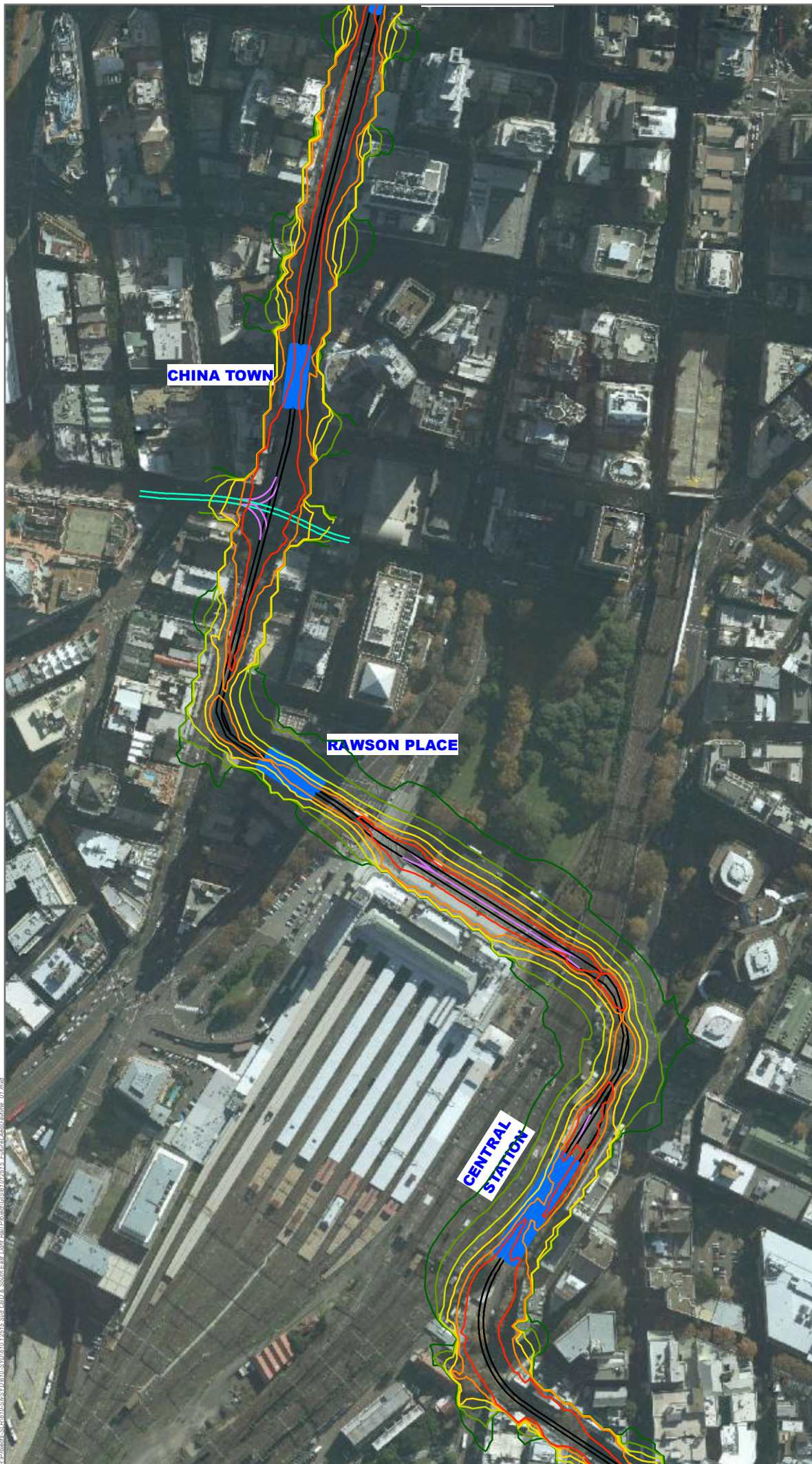
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Transport for NSW
**Sydney CBD & South East
Light Rail Project**
**Future LAeq(15hour) Daytime
Airborne Noise**



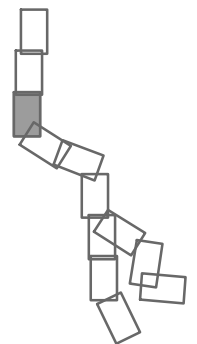
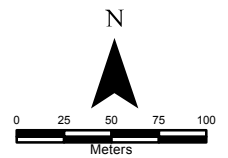
LEGEND

Airborne Noise

- 50 dBA
- 52 dBA
- 54 dBA
- 56 dBA
- 58 dBA
- 60 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* 'RING Airborne Light Rail Residential Trigger Level'
Daytime = 60 dBA L_{Aeq}(15hour)



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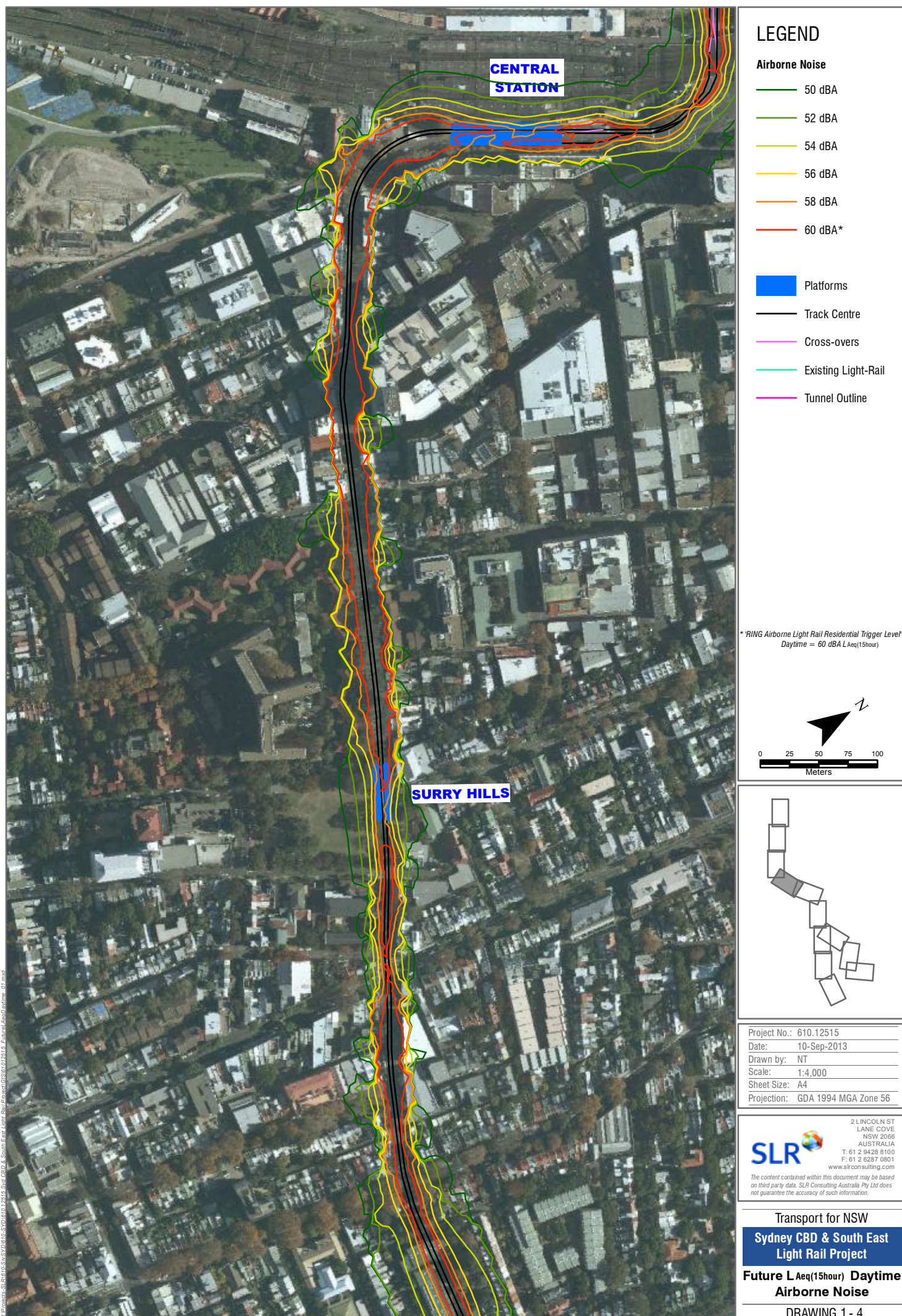
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**Sydney CBD & South East
Light Rail Project**
**Future L_{Aeq}(15hour) Daytime
Airborne Noise**

DRAWING 1 - 3





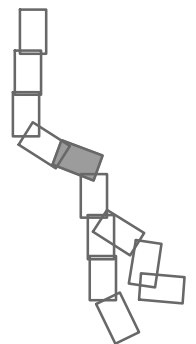
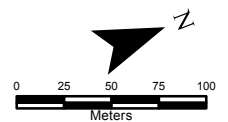
LEGEND

Airborne Noise

- 50 dBA
- 52 dBA
- 54 dBA
- 56 dBA
- 58 dBA
- 60 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* 'RING Airborne Light Rail Residential Trigger Level'
Daytime = 60 dBA L_{Aeq}(15hour)

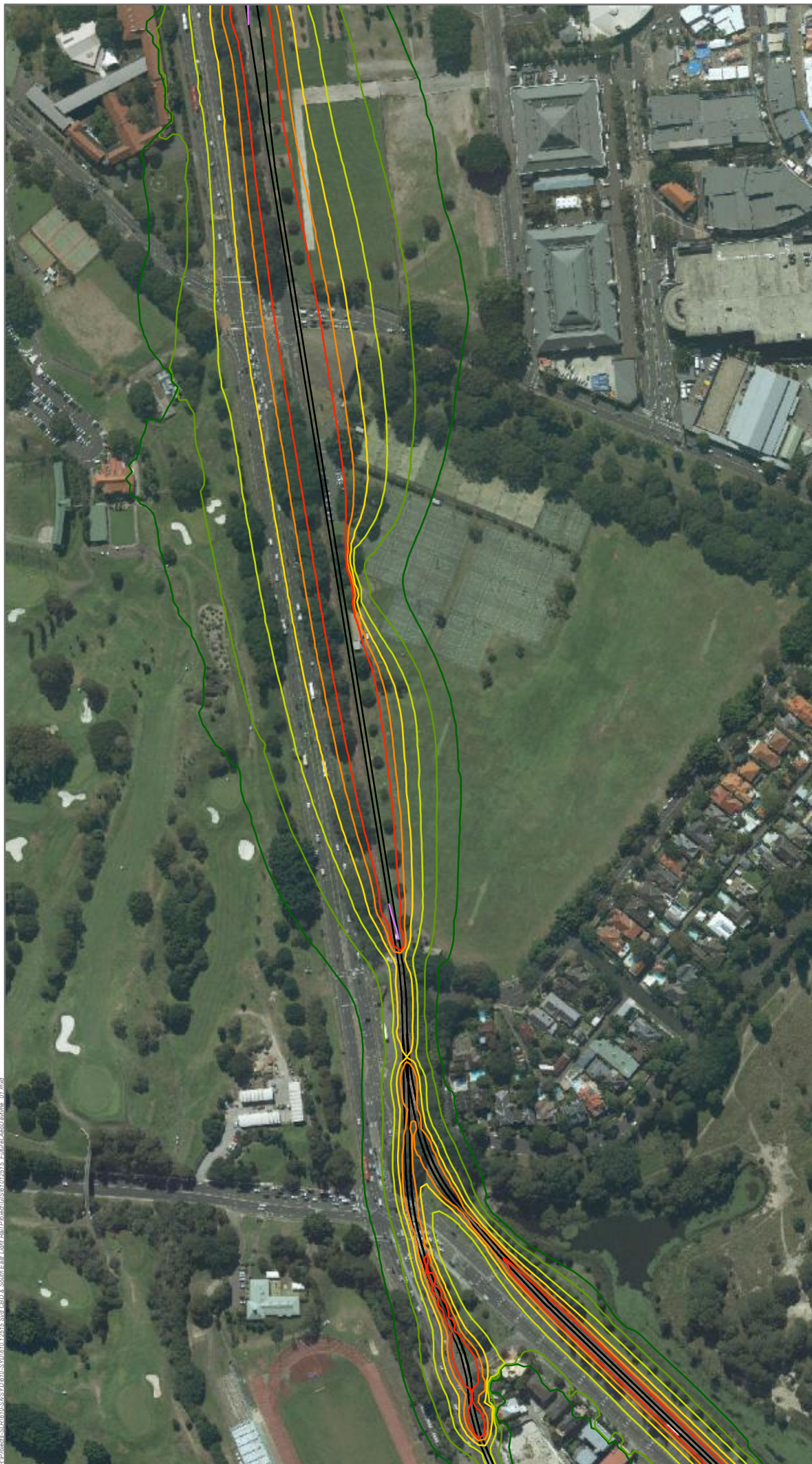


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**Future L_{Aeq}(15hour) Daytime
Airborne Noise**



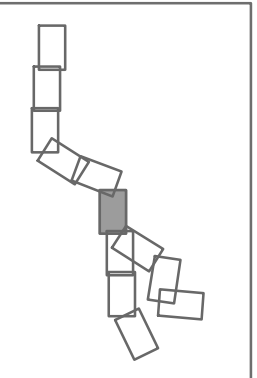
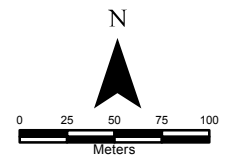
LEGEND

Airborne Noise

- 50 dBA
- 52 dBA
- 54 dBA
- 56 dBA
- 58 dBA
- 60 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* RING Airborne Light Rail Residential Trigger Level
Daytime = 60 dBA $L_{Aeq}(15\text{hour})$



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 Light Rail Project**
**Future $L_{Aeq}(15\text{hour})$ Daytime
 Airborne Noise**

DRAWING 1 - 6



CARLTON STREET

TODMAN AVENUE

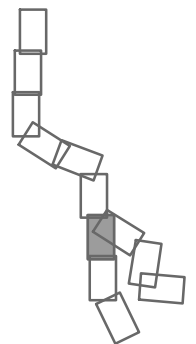
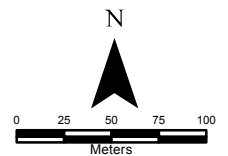
LEGEND

Airborne Noise

- 50 dBA
- 52 dBA
- 54 dBA
- 56 dBA
- 58 dBA
- 60 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* "RING Airborne Light Rail Residential Trigger Level"
Daytime = 60 dBA L_{Aeq}(15hour)



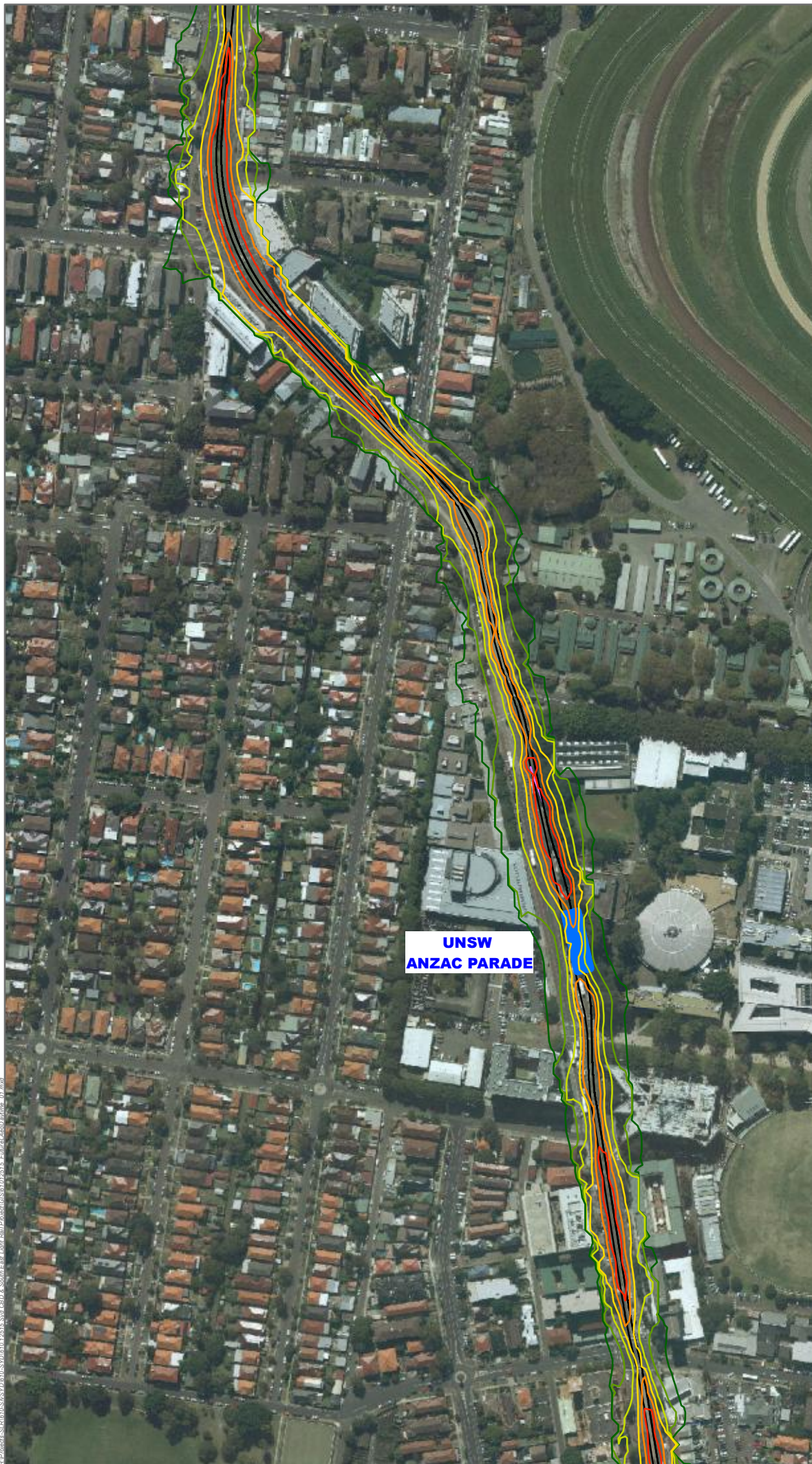
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 Light Rail Project**
**Future L_{Aeq}(15hour) Daytime
 Airborne Noise**

DRAWING 1 - 7



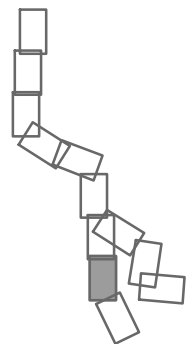
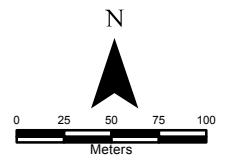
LEGEND

Airborne Noise

- 50 dBA
- 52 dBA
- 54 dBA
- 56 dBA
- 58 dBA
- 60 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* RING Airborne Light Rail Residential Trigger Level
Daytime = 60 dBA LAeq(15hour)



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**Sydney CBD & South East
Light Rail Project**
**Future LAeq(15hour) Daytime
Airborne Noise**

DRAWING 1 - 8



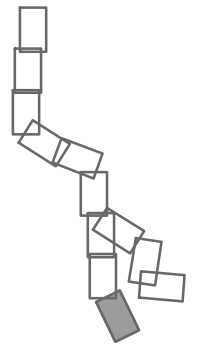
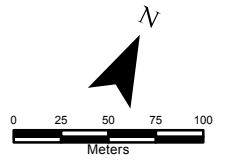
LEGEND

Airborne Noise

- 50 dBA
- 52 dBA
- 54 dBA
- 56 dBA
- 58 dBA
- 60 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* "RING Airborne Light Rail Residential Trigger Level"
Daytime = 60 dBA LAeq(15hour)



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 Light Rail Project**
**Future LAeq(15hour) Daytime
 Airborne Noise**

DRAWING 1 - 9



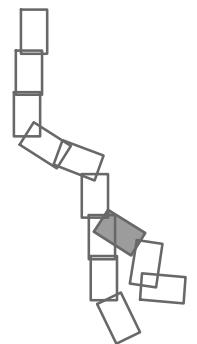
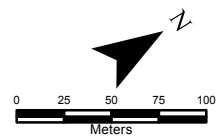
LEGEND

Airborne Noise

- 50 dBA
- 52 dBA
- 54 dBA
- 56 dBA
- 58 dBA
- 60 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* "RING Airborne Light Rail Residential Trigger Level"
Daytime = 60 dBA LAeq(15hour)



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**Sydney CBD & South East
 Light Rail Project**
**Future LAeq(15hour) Daytime
 Airborne Noise**



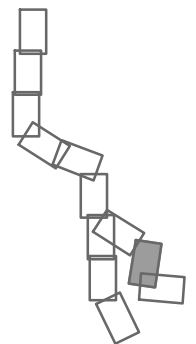
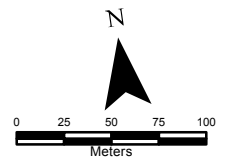
LEGEND

Airborne Noise

- 50 dBA
- 52 dBA
- 54 dBA
- 56 dBA
- 58 dBA
- 60 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* RING Airborne Light Rail Residential Trigger Level
Daytime = 60 dBA LAeq(15hour)



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**Sydney CBD & South East
Light Rail Project**

**Future LAeq(15hour) Daytime
Airborne Noise**

DRAWING 1 - 11



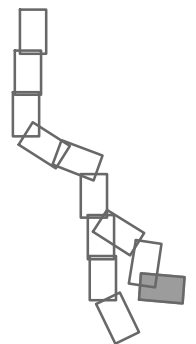
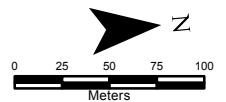
LEGEND

Airborne Noise

- 50 dBA
- 52 dBA
- 54 dBA
- 56 dBA
- 58 dBA
- 60 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* RING Airborne Light Rail Residential Trigger Level
Daytime = 60 dBA L_{Aeq}(15hour)



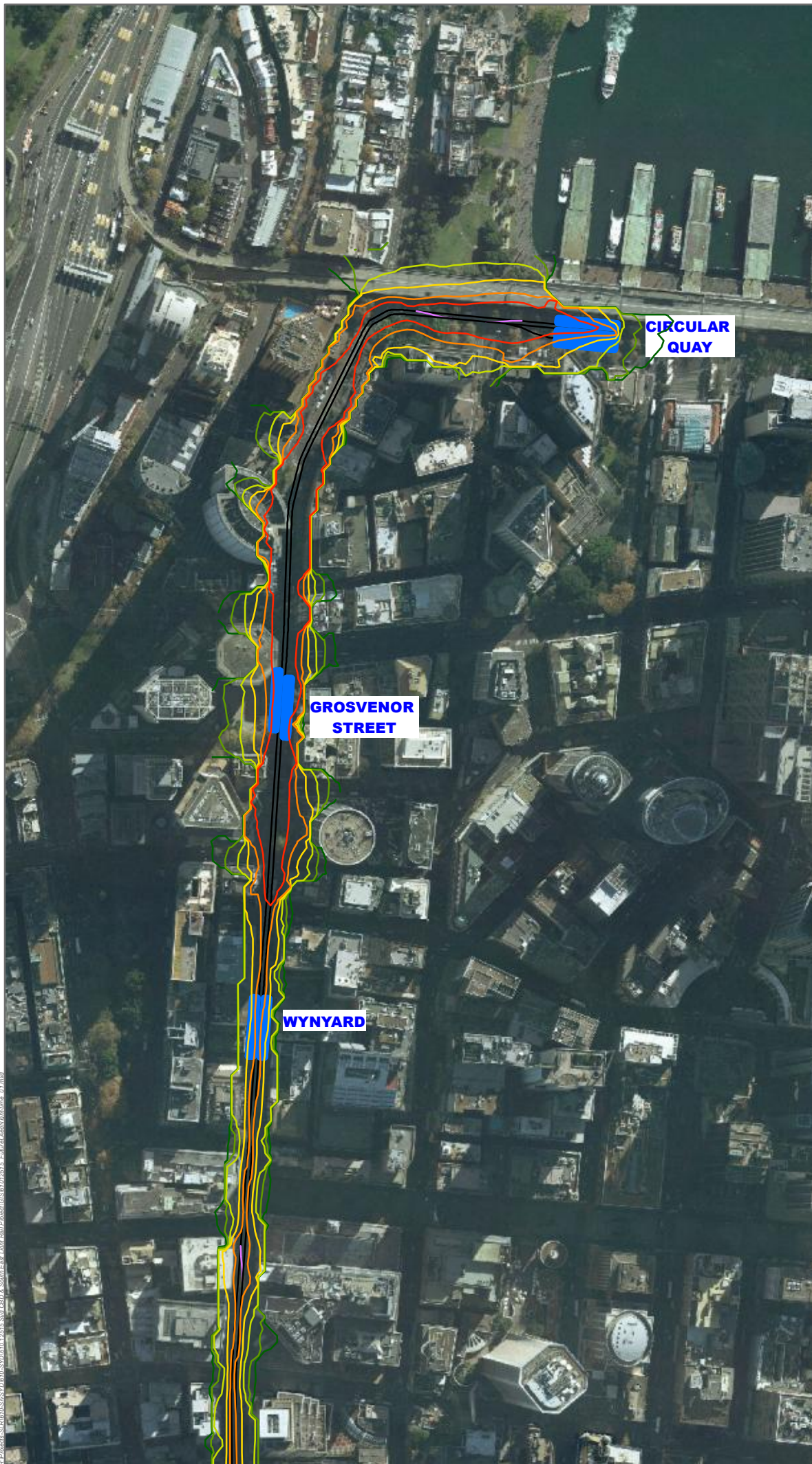
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**Sydney CBD & South East
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**Future L_{Aeq}(15hour) Daytime
Airborne Noise**



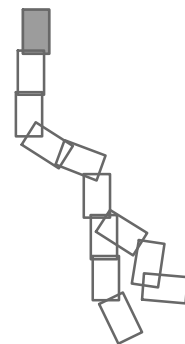
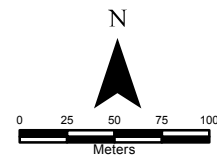
LEGEND

Airborne Noise

- 40 dBA
- 42 dBA
- 44 dBA
- 46 dBA
- 48 dBA
- 50 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* RING Airborne Light Rail Residential Trigger Level
Night-time = 50 dBA LAeq(9hour)



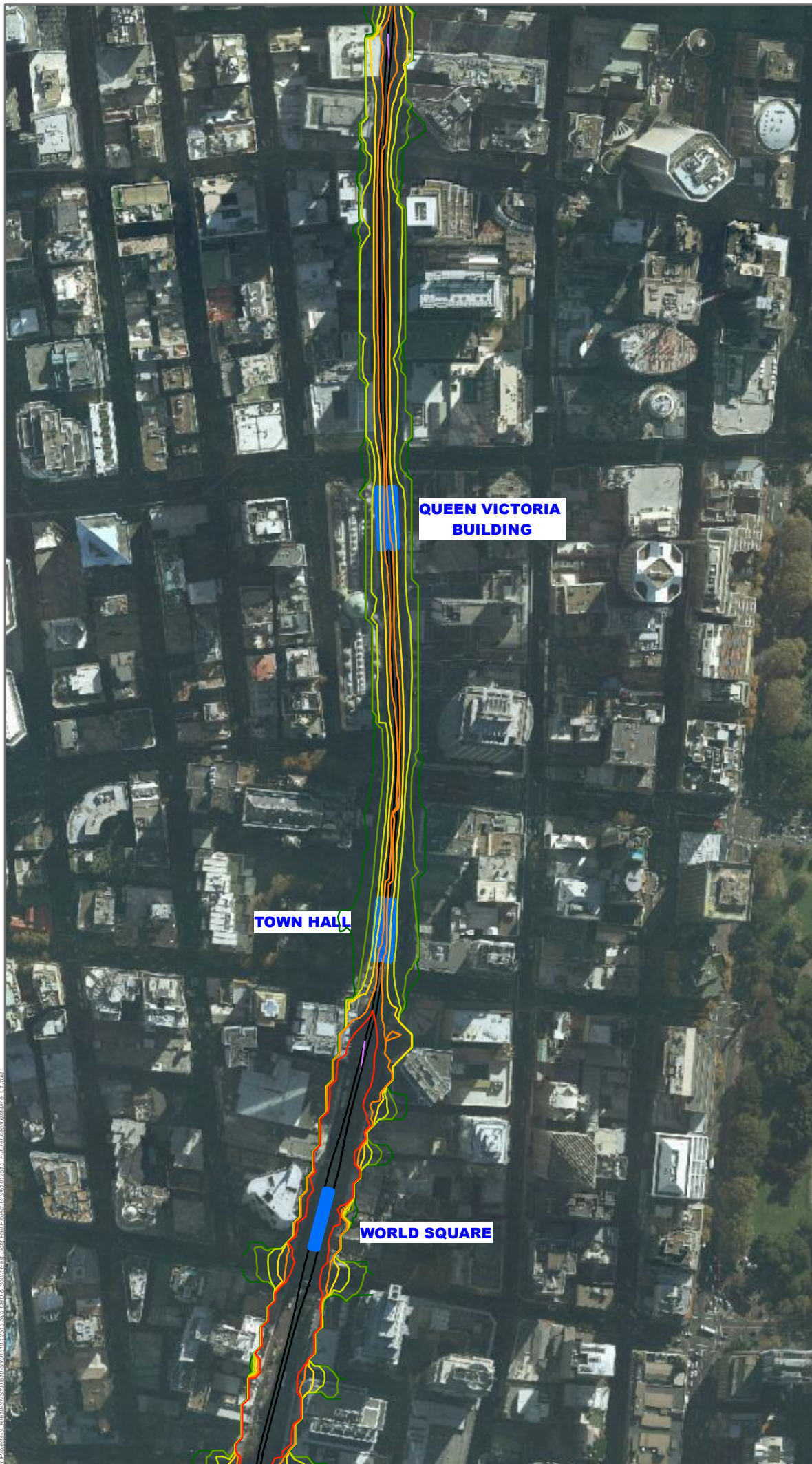
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Transport for NSW
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 Light Rail Project**
**Future LAeq(9hour) Night-time
 Airborne Noise**

DRAWING 2 - 1



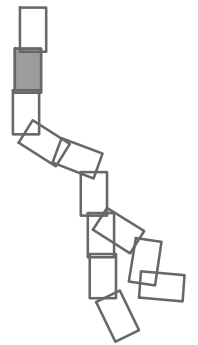
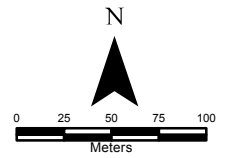
LEGEND

Airborne Noise

- 40 dBA
- 42 dBA
- 44 dBA
- 46 dBA
- 48 dBA
- 50 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* RING Airborne Light Rail Residential Trigger Level
Night-time = 50 dBA LAeq(9hour)



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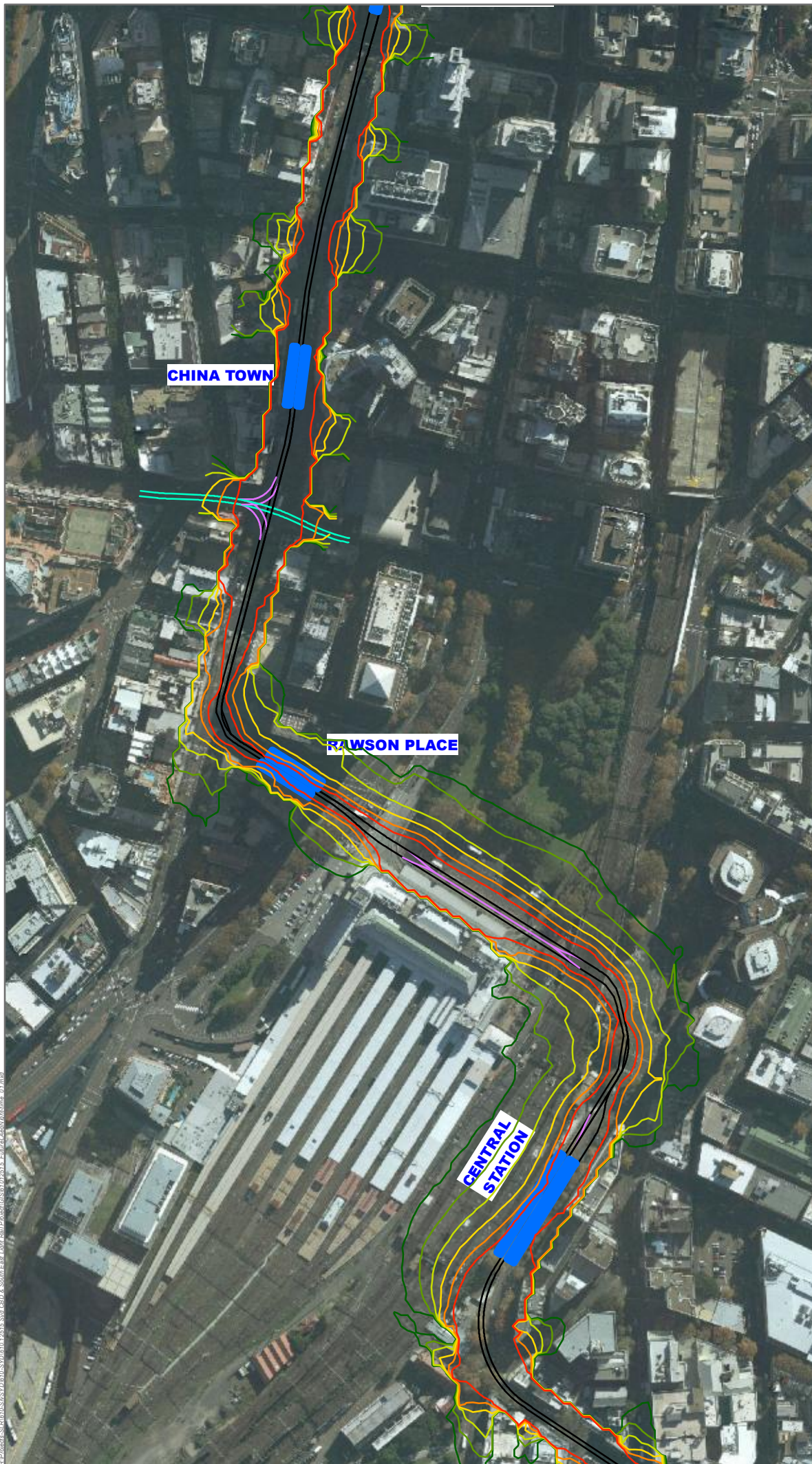
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Transport for NSW

**Sydney CBD & South East
Light Rail Project**

**Future LAeq(9hour) Night-time
Airborne Noise**

DRAWING 2 - 2



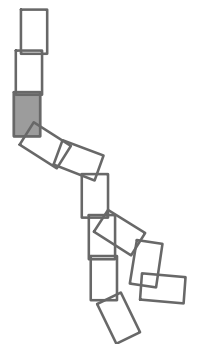
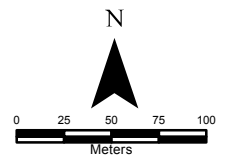
LEGEND

Airborne Noise

- 40 dBA
- 42 dBA
- 44 dBA
- 46 dBA
- 48 dBA
- 50 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* 'RING Airborne Light Rail Residential Trigger Level'
Night-time = 50 dBA LAeq(9hour)



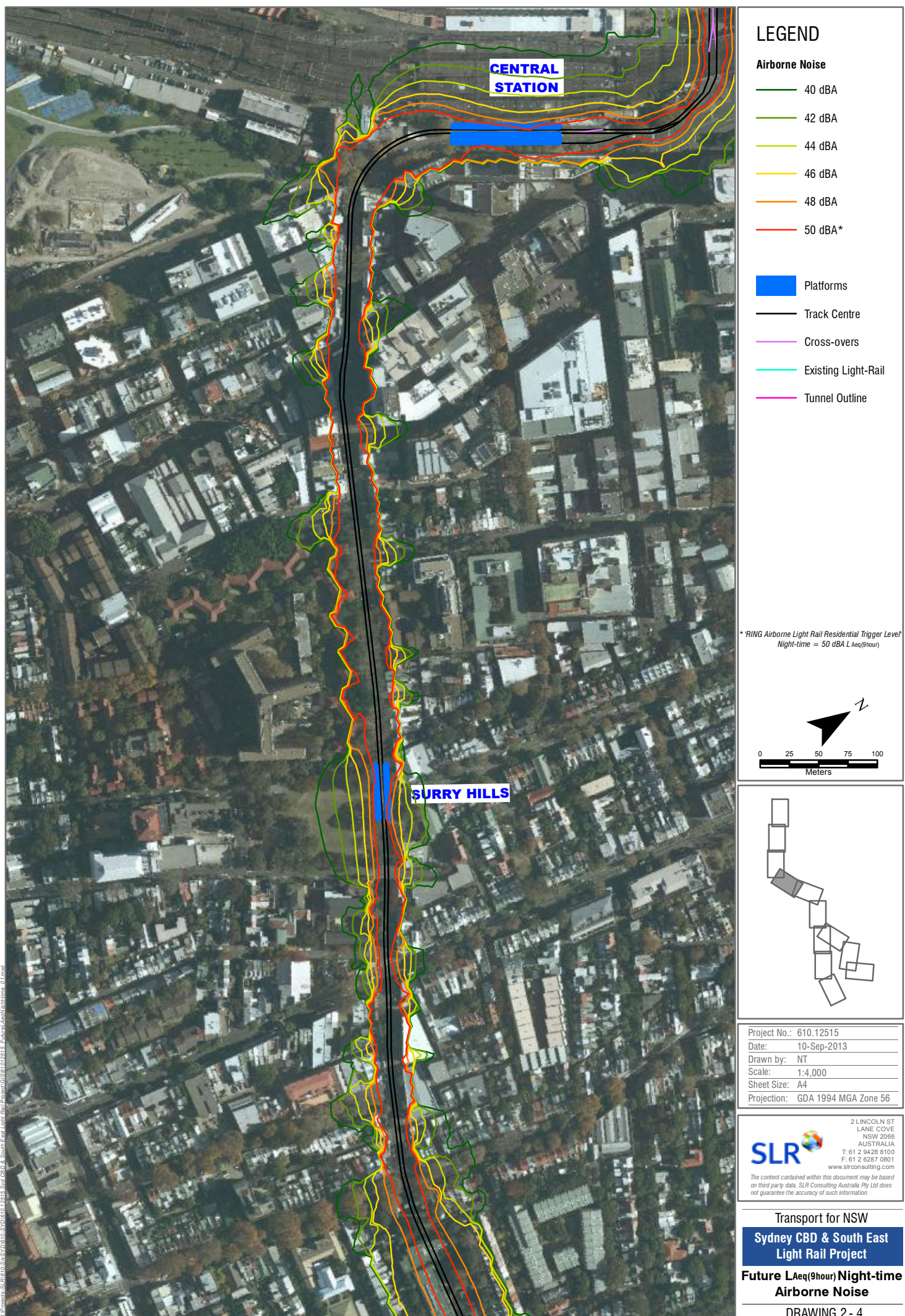
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Transport for NSW
**Sydney CBD & South East
Light Rail Project**
**Future LAeq(9hour) Night-time
Airborne Noise**

DRAWING 2 - 3





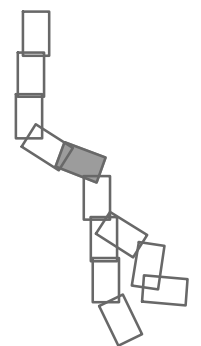
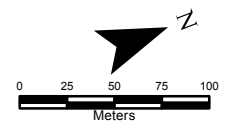
LEGEND

Airborne Noise

- 40 dBA
- 42 dBA
- 44 dBA
- 46 dBA
- 48 dBA
- 50 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

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Night-time = 50 dBA LAeq(9hour)



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Transport for NSW
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 Light Rail Project**
**Future LAeq(9hour) Night-time
 Airborne Noise**

DRAWING 2 - 5



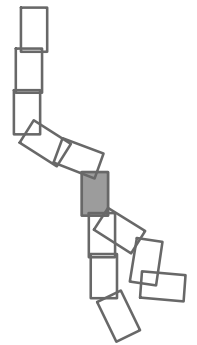
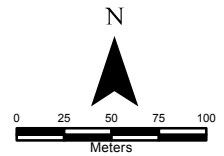
LEGEND

Airborne Noise

- 40 dBA
- 42 dBA
- 44 dBA
- 46 dBA
- 48 dBA
- 50 dBA*

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* 'RING Airborne Light Rail Residential Trigger Level'
Night-time = 50 dBA LAeq(9hour)



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**Sydney CBD & South East
Light Rail Project**

**Future LAeq(9hour) Night-time
Airborne Noise**

DRAWING 2 - 6



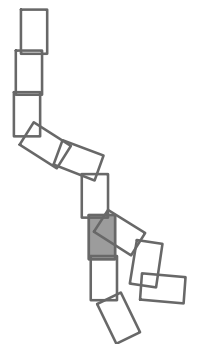
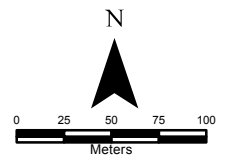
LEGEND

Airborne Noise

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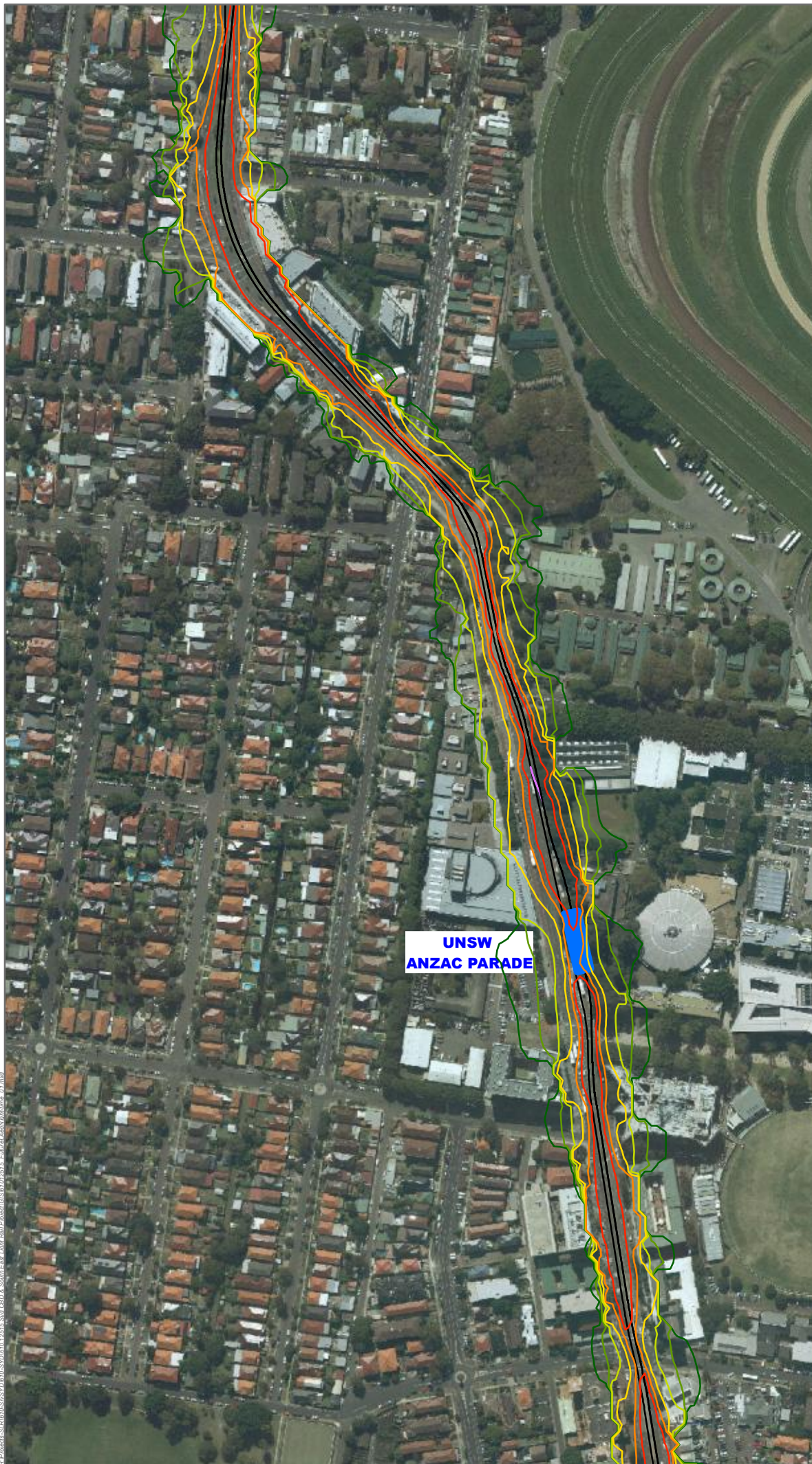


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**Future LAeq(9hour) Night-time
Airborne Noise**



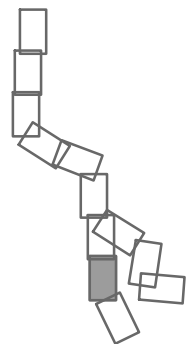
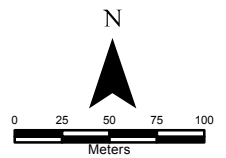
LEGEND

Airborne Noise

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- 48 dBA
- 50 dBA*

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Light Rail Project**
**Future LAeq(9hour) Night-time
Airborne Noise**

DRAWING 2 - 8



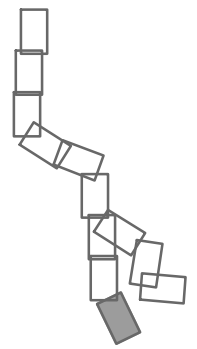
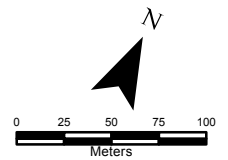
LEGEND

Airborne Noise

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Night-time = 50 dBA LAeq(9hour)



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 Light Rail Project**
**Future LAeq(9hour) Night-time
 Airborne Noise**

DRAWING 2 - 9



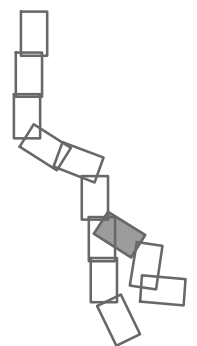
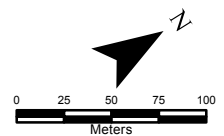
LEGEND

Airborne Noise

- 40 dBA
- 42 dBA
- 44 dBA
- 46 dBA
- 48 dBA
- 50 dBA*

- Platforms
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Light Rail Project**

**Future LAeq(9hour) Night-time
Airborne Noise**

DRAWING 2 - 10



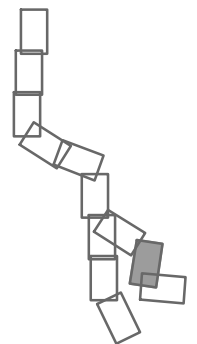
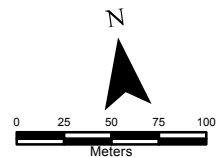
LEGEND

Airborne Noise

- 40 dBA
- 42 dBA
- 44 dBA
- 46 dBA
- 48 dBA
- 50 dBA*

- Platforms
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- Cross-overs
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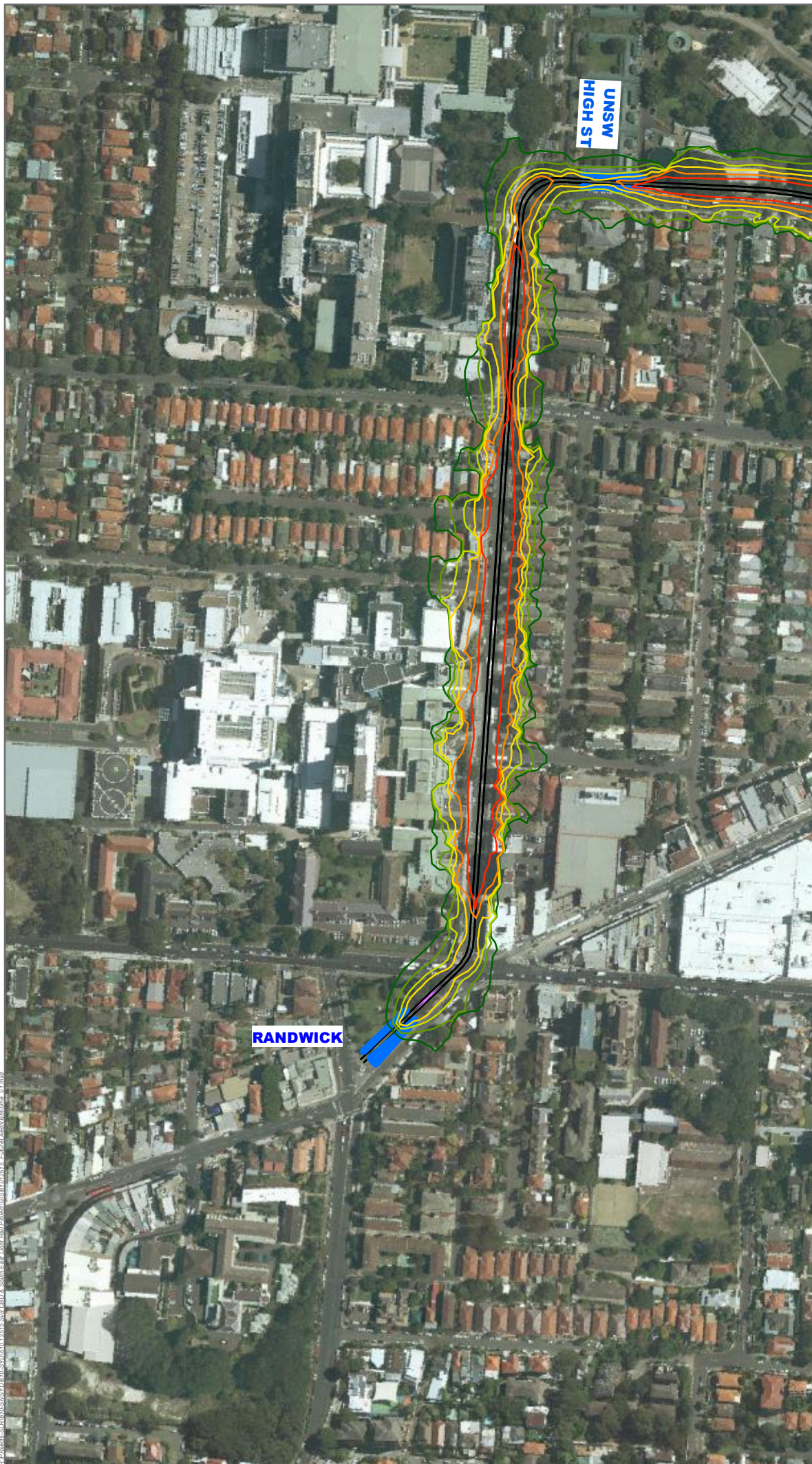
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Light Rail Project**
**Future LAeq(9hour) Night-time
Airborne Noise**

DRAWING 2 - 11



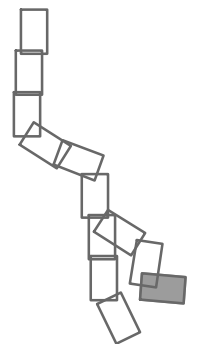
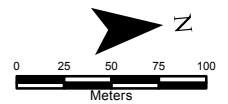
LEGEND

Airborne Noise

- 40 dBA
- 42 dBA
- 44 dBA
- 46 dBA
- 48 dBA
- 50 dBA*

- Platforms
- Track Centre
- Cross-overs
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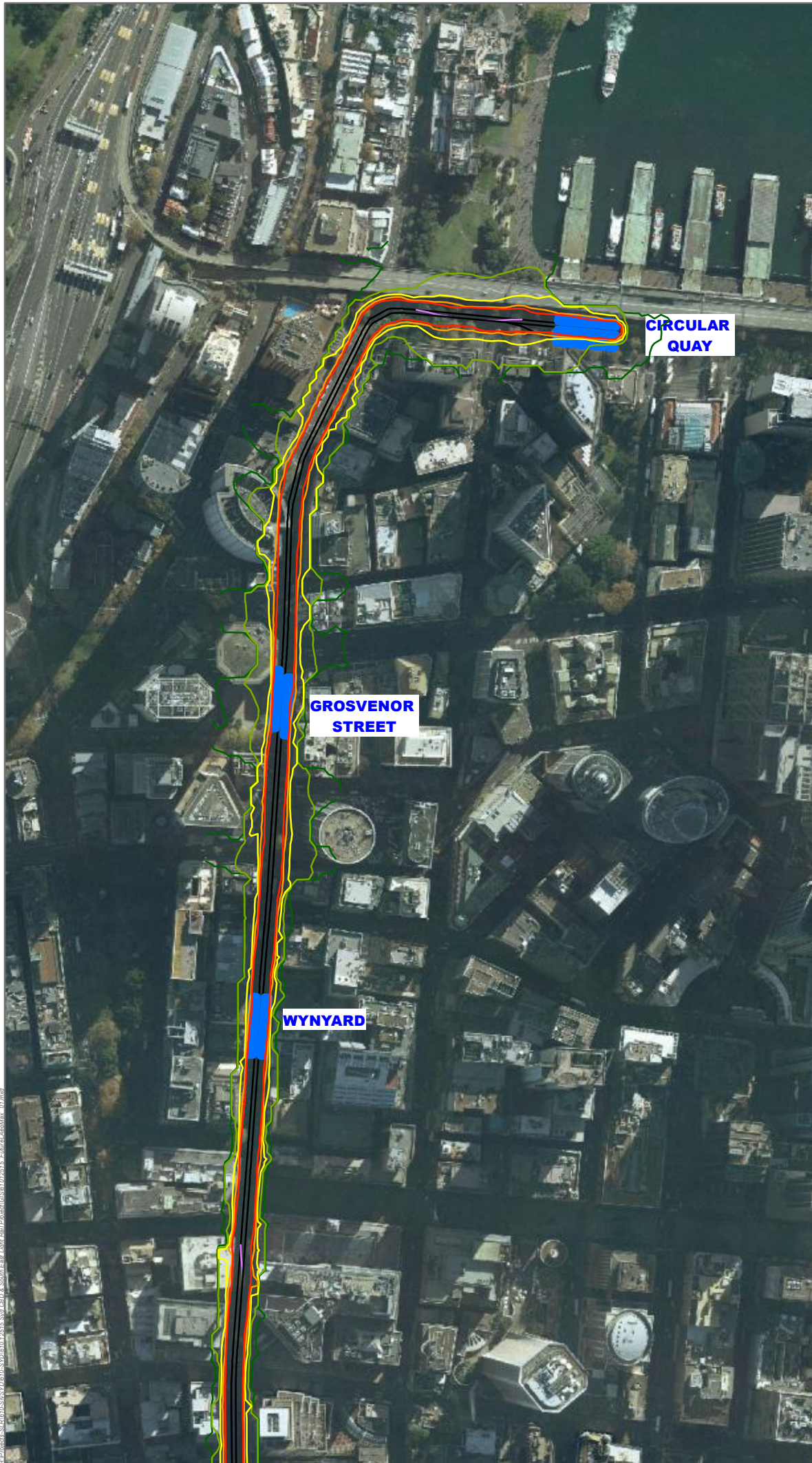
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**Future LAeq(9hour) Night-time
Airborne Noise**

DRAWING 2 - 12



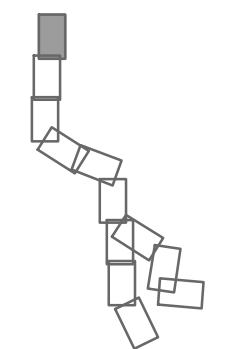
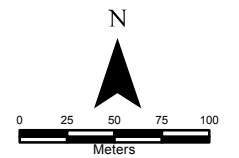
LEGEND

Airborne Noise

- 65 dBA
- 70 dBA
- 75 dBA
- 80 dBA*
- 85 dBA

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* RING Airborne Light Rail Residential Trigger Level
Night-time = 80 dBA L_{max}

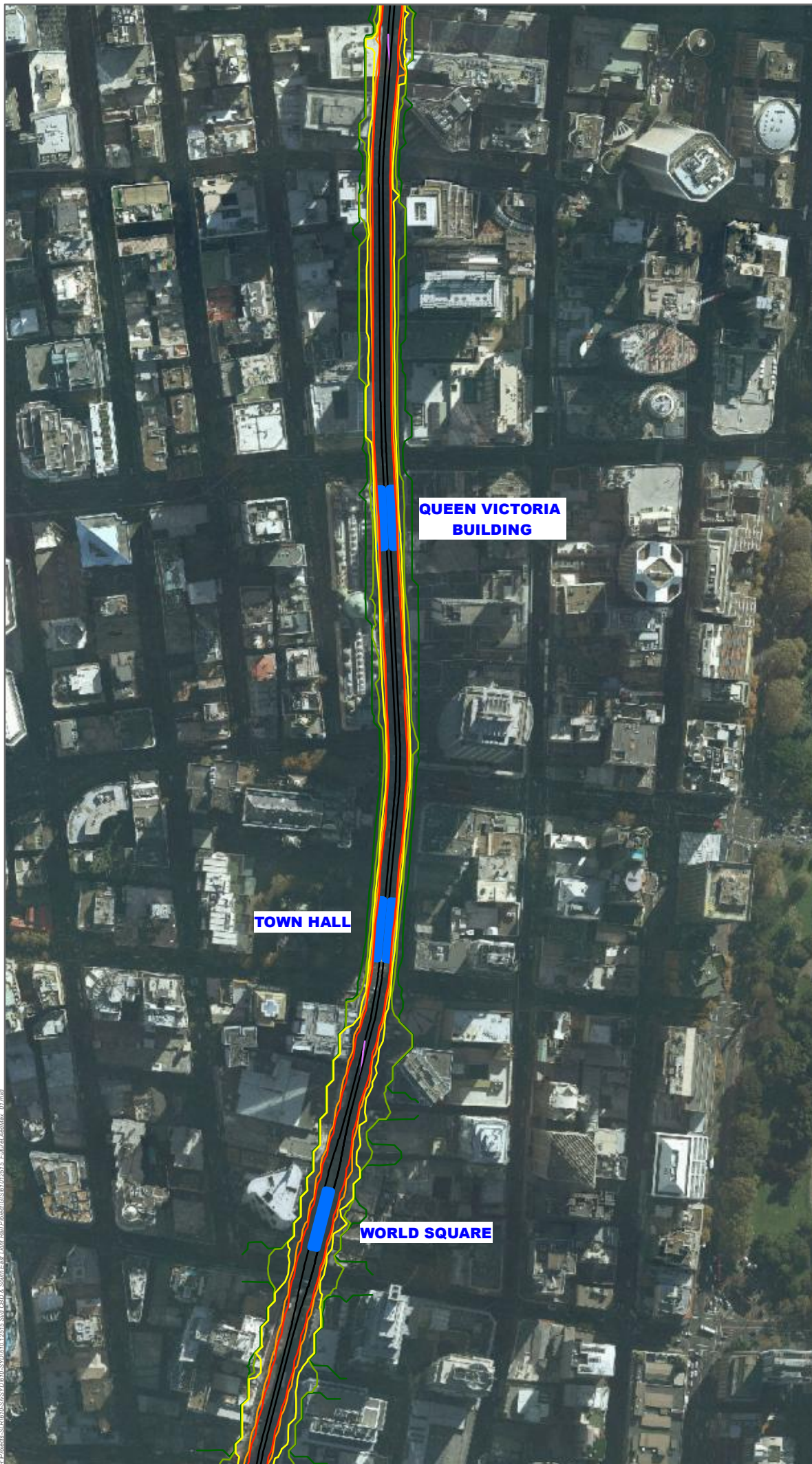


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**Future L_{max} Night-time
 Airborne Noise**



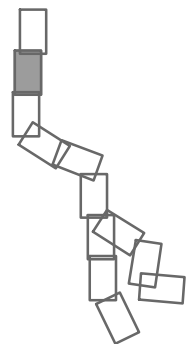
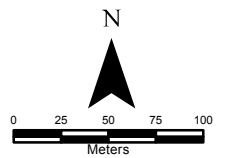
LEGEND

Airborne Noise

- 65 dBA
- 70 dBA
- 75 dBA
- 80 dBA*
- 85 dBA

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* RING Airborne Light Rail Residential Trigger Level
Night-time = 80 dBA L_{max}



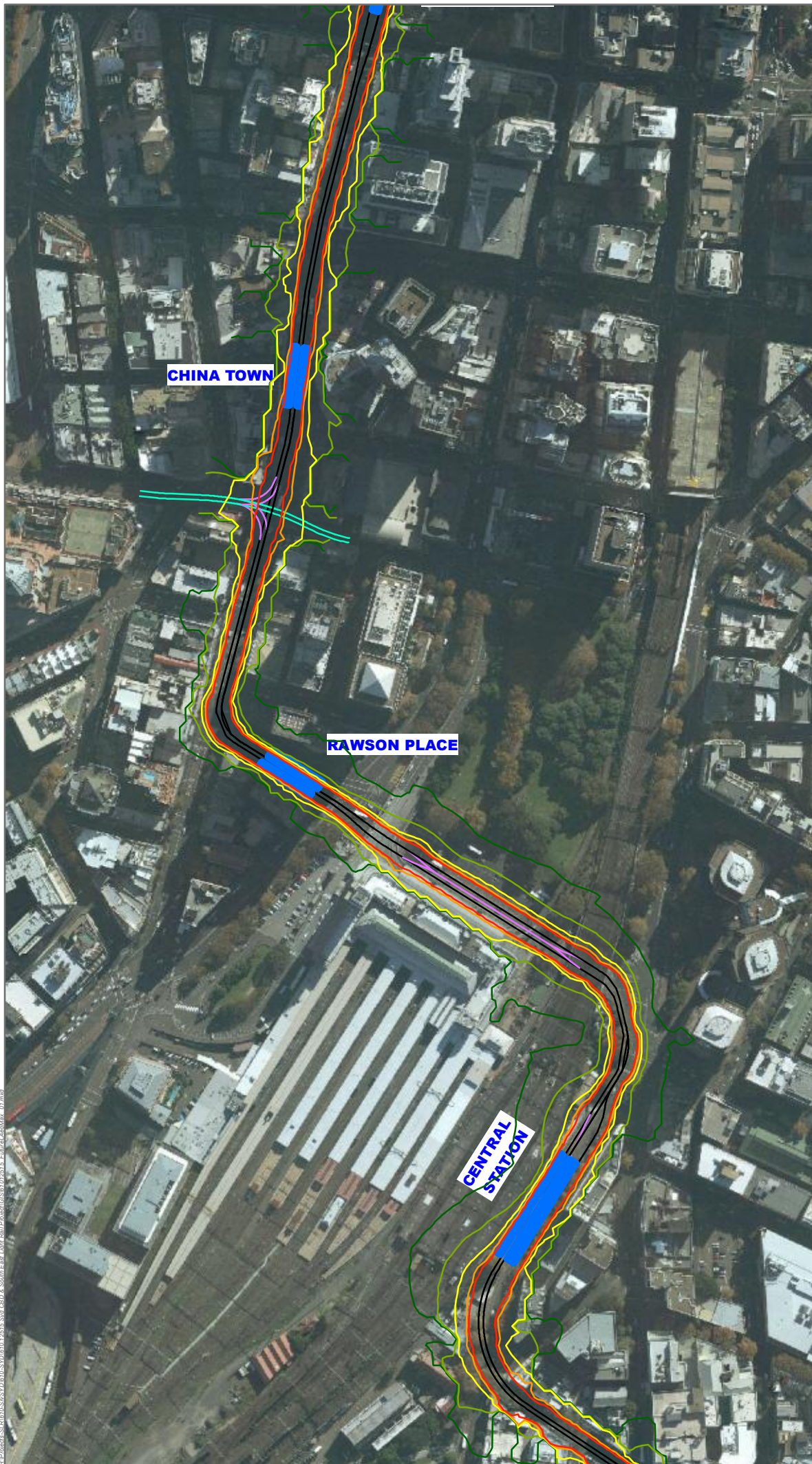
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**Future L_{max} Night-time
Airborne Noise**



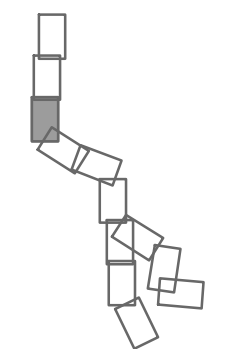
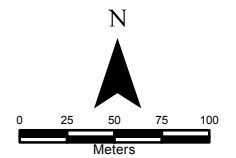
LEGEND

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Night-time = 80 dBA L_{max}



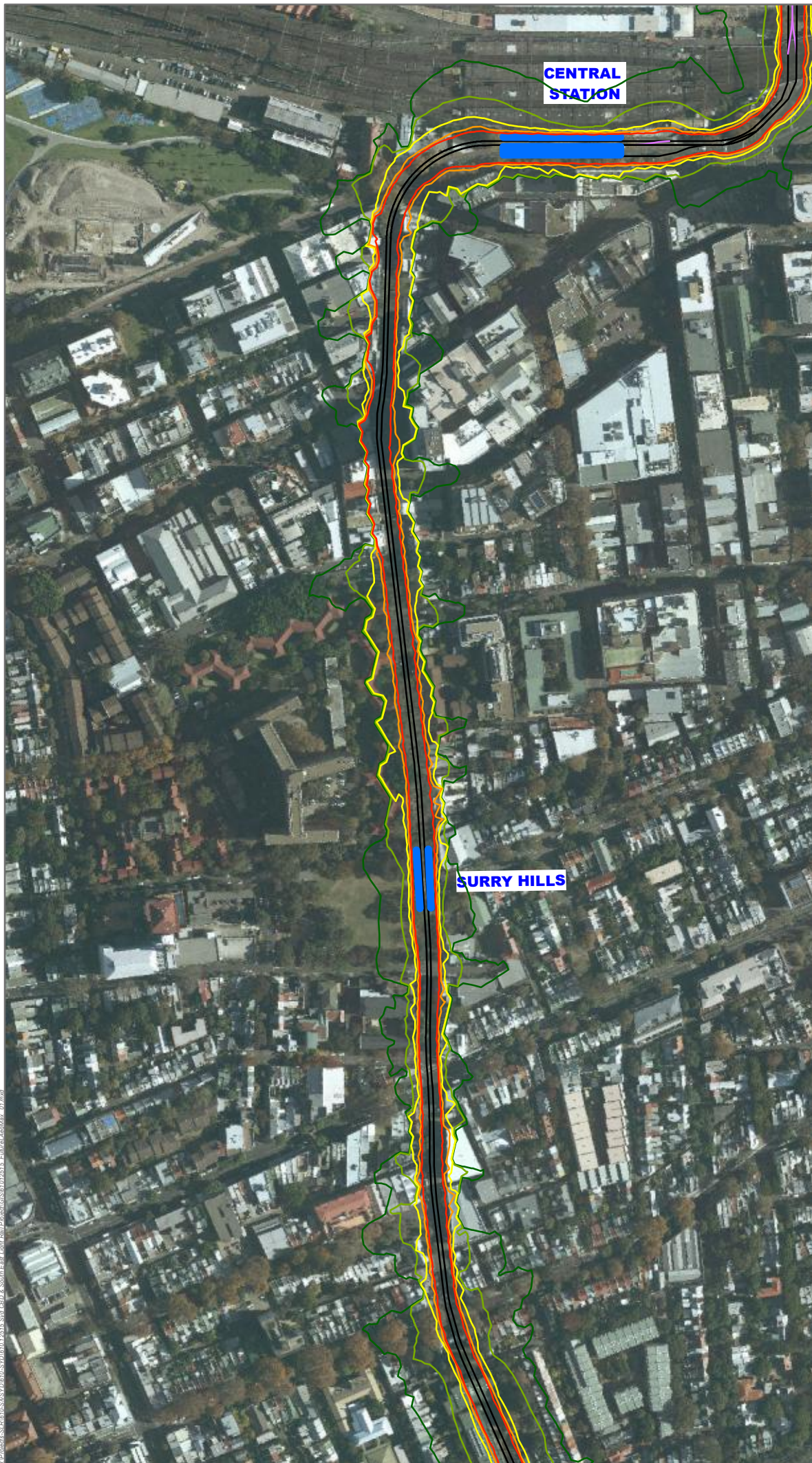
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**Sydney CBD & South East
Light Rail Project**
**Future L_{max} Night-time
Airborne Noise**

DRAWING 3 - 3



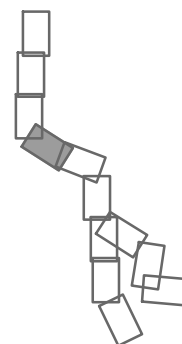
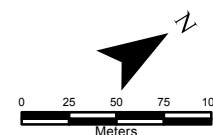
LEGEND

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**Sydney CBD & South East
Light Rail Project**

**Future L_{max} Night-time
Airborne Noise**

DRAWING 3 - 4



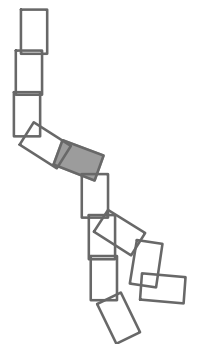
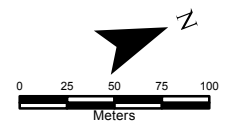
LEGEND

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Night-time = 80 dBA L_{max}



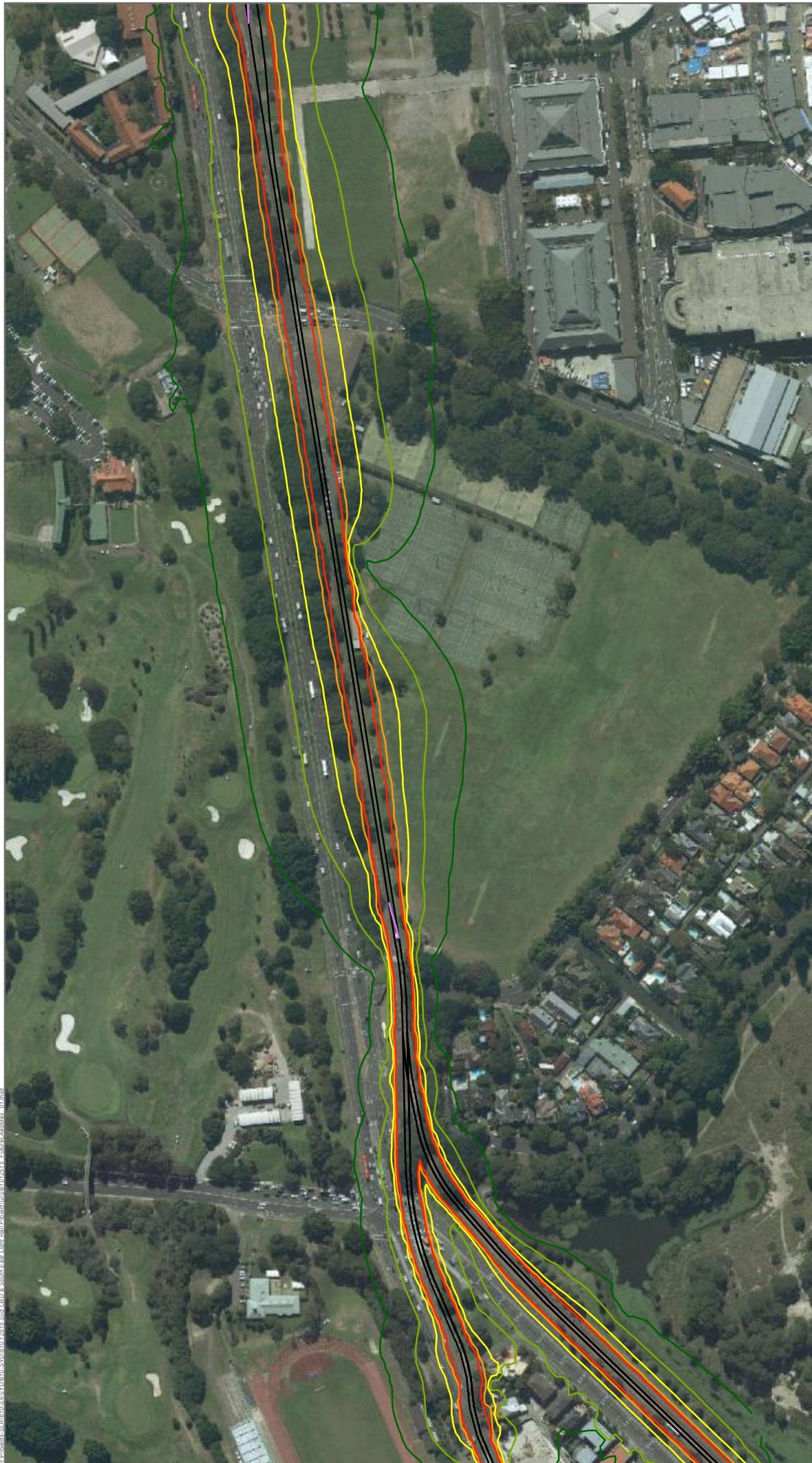
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 Light Rail Project**
**Future L_{max} Night-time
 Airborne Noise**

DRAWING 3 - 5



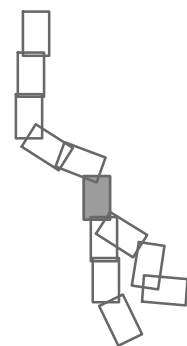
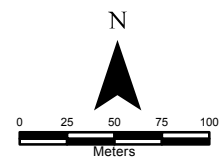
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 Light Rail Project**
**Future L_{max} Night-time
 Airborne Noise**

DRAWING 3 - 6



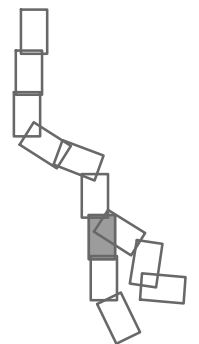
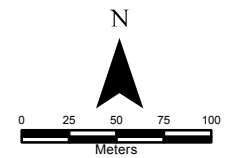
LEGEND

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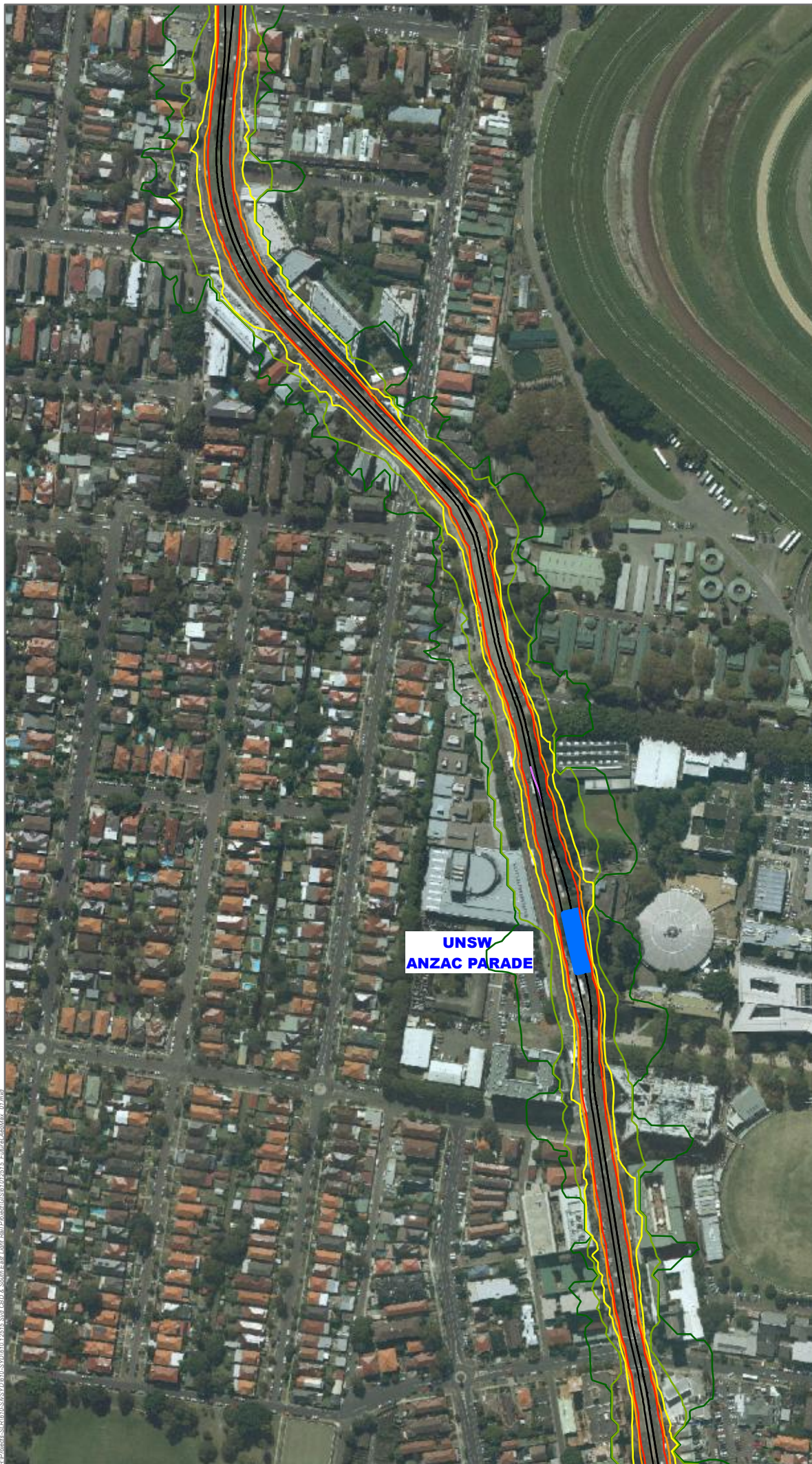
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**Sydney CBD & South East
Light Rail Project**

**Future L_{max} Night-time
Airborne Noise**

DRAWING 3 - 7



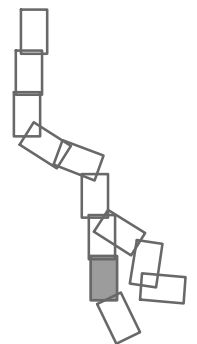
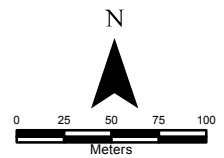
LEGEND

Airborne Noise

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**Future L_{max} Night-time
Airborne Noise**

DRAWING 3 - 8



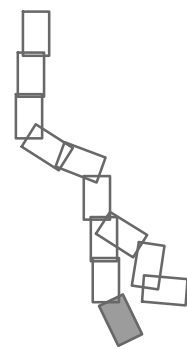
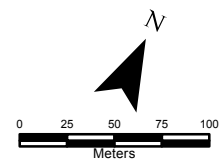
LEGEND

Airborne Noise

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Transport for NSW
**Sydney CBD & South East
 Light Rail Project**
**Future L_{max} Night-time
 Airborne Noise**



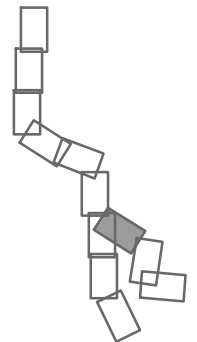
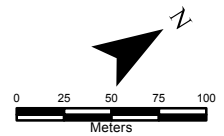
LEGEND

Airborne Noise

- 65 dBA
- 70 dBA
- 75 dBA
- 80 dBA*
- 85 dBA

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* "RING Airborne Light Rail Residential Trigger Level"
Night-time = 80 dBA L_{max}



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**Future L_{max} Night-time
 Airborne Noise**

DRAWING 3 - 10



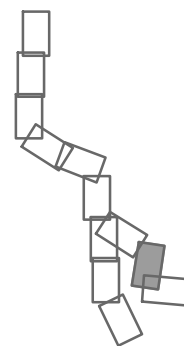
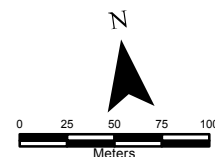
LEGEND

Airborne Noise

- 65 dBA
- 70 dBA
- 75 dBA
- 80 dBA*
- 85 dBA

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* 'RING Airborne Light Rail Residential Trigger Level'
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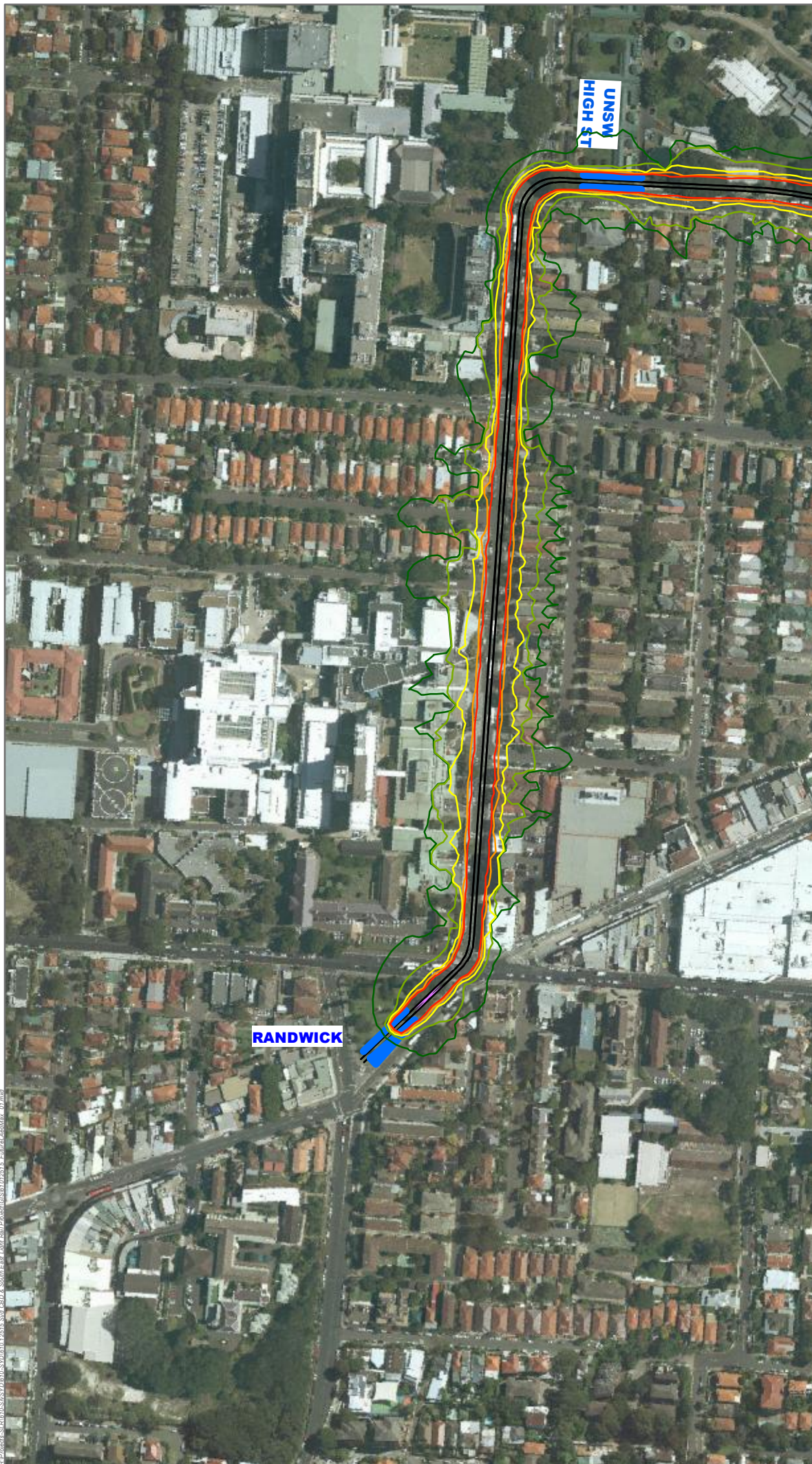
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Transport for NSW
**Sydney CBD & South East
Light Rail Project**

**Future L_{max} Night-time
Airborne Noise**

DRAWING 3 - 11



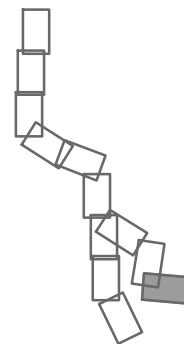
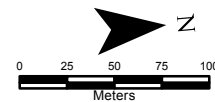
LEGEND

Airborne Noise

- 65 dBA
- 70 dBA
- 75 dBA
- 80 dBA*
- 85 dBA

- Platforms
- Track Centre
- Cross-overs
- Existing Light-Rail
- Tunnel Outline

* RING Airborne Light Rail Residential Trigger Level
Night-time = 80 dBA L_{max}



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Transport for NSW
**Sydney CBD & South East
 Light Rail Project**
**Future L_{max} Night-time
 Airborne Noise**

Construction Noise Predictions

- E1 City Centre Precinct**
- E2 Surry Hills Precinct**
- E3 Moore Park Precinct**
- E4 Kensington / Kingsford Precinct**
- E5 Randwick Precinct**
- E6 Randwick Stabling Yard**
- E7 Rozelle Maintenance Depot**

Appendix E1

Report 610.12515-R1

Page 2 of 6

Construction Noise Predictions – City Centre Precinct

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)								Noise Level – LA1(60second) (dBA)						
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night			
Mainline Works																	
NCA01.1-COM	Commercial / indoor café/bars	7	78-93	n/a	n/a	n/a	70	70	70	70	8 - 23	8 - 23	8 - 23	8 - 23	n/a	n/a	n/a
NCA01.1-Occ	Other (Childcare)	63	54-69	n/a	n/a	n/a	50	50	n/a	n/a	4 - 19	4 - 19	n/a	n/a	n/a	n/a	n/a
NCA01.1-Oho	Other (Hotel)	8	77-92	n/a	n/a	n/a	70	70	70	60	7 - 22	7 - 22	7 - 22	17 - 32	n/a	n/a	n/a
NCA01.1-Ome	Other (Medical)	7	78-93	n/a	n/a	n/a	55	55	55	55	23 - 38	23 - 38	23 - 38	23 - 38	n/a	n/a	n/a
NCA01.1-Oth	Other (Theatre/Auditorium)	47	60-75	n/a	n/a	n/a	50	50	50	n/a	10 - 25	10 - 25	10 - 25	n/a	n/a	n/a	n/a
NCA01.1-RES	Residential	34	67-82	63	62	57	73	68	67	62	up to 9	up to 14	up to 15	5 - 20	88	72	16
NCA01.2-COM	Commercial / indoor café/bars	7	79-94	n/a	n/a	n/a	70	70	70	70	9 - 24	9 - 24	9 - 24	9 - 24	n/a	n/a	n/a
NCA01.2-Occ	Other (Childcare)	28	62-77	n/a	n/a	n/a	50	50	n/a	n/a	12 - 27	12 - 27	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oct	Other (Court House)	37	65-80	n/a	n/a	n/a	55	n/a	n/a	n/a	10 - 25	n/a	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oed	Other (Educational)	14	73-88	n/a	n/a	n/a	55	n/a	n/a	n/a	18 - 33	n/a	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oho	Other (Hotel)	11	77-92	n/a	n/a	n/a	70	70	70	60	7 - 22	7 - 22	7 - 22	17 - 32	n/a	n/a	n/a
NCA01.2-Ome	Other (Medical)	80	38-53	n/a	n/a	n/a	55	55	55	55	-	-	-	-	n/a	n/a	n/a
NCA01.2-Opw	Other (Place of Worship)	30	66-81	n/a	n/a	n/a	55	55	n/a	n/a	11 - 26	11 - 26	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oth	Other (Theatre/Auditorium)	9	76-91	n/a	n/a	n/a	50	50	50	n/a	26 - 41	26 - 41	26 - 41	n/a	n/a	n/a	n/a
NCA01.2-RES	Residential	17	70-85	64	62	56	74	69	67	61	up to 11	1 - 16	3 - 18	9 - 24	91	71	20
NCA01.3-COM	Commercial / indoor café/bars	9	76-91	n/a	n/a	n/a	70	70	70	70	6 - 21	6 - 21	6 - 21	6 - 21	n/a	n/a	n/a
NCA01.3-Oed	Other (Educational)	35	61-76	n/a	n/a	n/a	55	n/a	n/a	n/a	6 - 21	n/a	n/a	n/a	n/a	n/a	n/a
NCA01.3-Oho	Other (Hotel)	9	76-91	n/a	n/a	n/a	70	70	70	60	6 - 21	6 - 21	6 - 21	16 - 31	n/a	n/a	n/a
NCA01.3-Oli	Other (Library)	11	74-89	n/a	n/a	n/a	55	55	n/a	n/a	19 - 34	19 - 34	n/a	n/a	n/a	n/a	n/a
NCA01.3-Ome	Other (Medical)	11	75-90	n/a	n/a	n/a	55	55	55	55	20 - 35	20 - 35	20 - 35	20 - 35	n/a	n/a	n/a
NCA01.3-Oop	Other (Outdoor Passive)	61	54-69	n/a	n/a	n/a	60	60	60	n/a	up to 9	up to 9	up to 9	n/a	n/a	n/a	n/a
NCA01.3-Opw	Other (Place of Worship)	9	76-91	n/a	n/a	n/a	55	55	n/a	n/a	21 - 36	21 - 36	n/a	n/a	n/a	n/a	n/a
NCA01.3-Ors	Other (Recording Studio)	63	58-73	n/a	n/a	n/a	45	45	45	n/a	13 - 28	13 - 28	13 - 28	n/a	n/a	n/a	n/a

Appendix E1

Report 610.12515-R1

Page 3 of 6

Construction Noise Predictions – City Centre Precinct

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)										Noise Level – LA1(60second) (dBA)				
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night			
NCA01.3-Oth	Other (Theatre/Auditorium)	91	52-67	n/a	n/a	n/a	50	50	50	n/a	2 - 17	2 - 17	2 - 17	n/a	n/a	n/a	n/a
NCA01.3-RES	Residential	17	71-86	58	56	52	68	63	61	57	3 - 18	8 - 23	10 - 25	14 - 29	92	67	25
Structures -Stops																	
NCA01.1-COM	Commercial / indoor café/bars	3	86-100	n/a	n/a	n/a	70	70	70	70	16 - 30	16 - 30	16 - 30	16 - 30	n/a	n/a	n/a
NCA01.1-Occ	Other (Childcare)	62	57-71	n/a	n/a	n/a	50	50	n/a	n/a	7 - 21	7 - 21	n/a	n/a	n/a	n/a	n/a
NCA01.1-Oho	Other (Hotel)	4	85-99	n/a	n/a	n/a	70	70	70	60	15 - 29	15 - 29	15 - 29	25 - 39	n/a	n/a	n/a
NCA01.1-Ome	Other (Medical)	31	67-81	n/a	n/a	n/a	55	55	55	55	12 - 26	12 - 26	12 - 26	12 - 26	n/a	n/a	n/a
NCA01.1-Oth	Other (Theatre/Auditorium)	67	39-53	n/a	n/a	n/a	50	50	50	n/a	up to 3	up to 3	up to 3	n/a	n/a	n/a	n/a
NCA01.1-RES	Residential	47	65-79	63	62	57	73	68	67	62	up to 6	up to 11	up to 12	3 - 17	89	72	17
NCA01.2-COM	Commercial / indoor café/bars	4	85-99	n/a	n/a	n/a	70	70	70	70	15 - 29	15 - 29	15 - 29	15 - 29	n/a	n/a	n/a
NCA01.2-Occ	Other (Childcare)	36	60-74	n/a	n/a	n/a	50	50	n/a	n/a	10 - 24	10 - 24	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oct	Other (Court House)	33	71-85	n/a	n/a	n/a	55	n/a	n/a	n/a	16 - 30	n/a	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oed	Other (Educational)	12	75-89	n/a	n/a	n/a	55	n/a	n/a	n/a	20 - 34	n/a	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oho	Other (Hotel)	7	80-94	n/a	n/a	n/a	70	70	70	60	10 - 24	10 - 24	10 - 24	20 - 34	n/a	n/a	n/a
NCA01.2-Ome	Other (Medical)	76	40-54	n/a	n/a	n/a	55	55	55	55	-	-	-	-	n/a	n/a	n/a
NCA01.2-Opw	Other (Place of Worship)	25	69-83	n/a	n/a	n/a	55	55	n/a	n/a	14 - 28	14 - 28	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oth	Other (Theatre/Auditorium)	10	77-91	n/a	n/a	n/a	50	50	50	n/a	27 - 41	27 - 41	27 - 41	n/a	n/a	n/a	n/a
NCA01.2-RES	Residential	46	65-79	64	62	56	74	69	67	61	up to 5	up to 10	up to 12	4 - 18	89	71	18
NCA01.3-COM	Commercial / indoor café/bars	7	80-94	n/a	n/a	n/a	70	70	70	70	10 - 24	10 - 24	10 - 24	10 - 24	n/a	n/a	n/a
NCA01.3-Oed	Other (Educational)	31	62-76	n/a	n/a	n/a	55	n/a	n/a	n/a	7 - 21	n/a	n/a	n/a	n/a	n/a	n/a
NCA01.3-Oho	Other (Hotel)	4	85-99	n/a	n/a	n/a	70	70	70	60	15 - 29	15 - 29	15 - 29	25 - 39	n/a	n/a	n/a
NCA01.3-Oli	Other (Library)	99	52-66	n/a	n/a	n/a	55	55	n/a	n/a	up to 11	up to 11	n/a	n/a	n/a	n/a	n/a
NCA01.3-Ome	Other (Medical)	11	76-90	n/a	n/a	n/a	55	55	55	55	21 - 35	21 - 35	21 - 35	21 - 35	n/a	n/a	n/a
NCA01.3-Oop	Other (Outdoor Passive)	118	45-59	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	n/a

Appendix E1

Report 610.12515-R1

Page 4 of 6

Construction Noise Predictions – City Centre Precinct

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)										Noise Level – LA1(60second) (dBA)				
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night			
NCA01.3-Opw	Other (Place of Worship)	5	84-98	n/a	n/a	n/a	55	55	n/a	n/a	29 - 43	29 - 43	n/a	n/a	n/a	n/a	n/a
NCA01.3-Ors	Other (Recording Studio)	104	36-50	n/a	n/a	n/a	45	45	45	n/a	up to 5	up to 5	up to 5	n/a	n/a	n/a	n/a
NCA01.3-Oth	Other (Theatre/Auditorium)	91	53-67	n/a	n/a	n/a	50	50	50	n/a	3 - 17	3 - 17	3 - 17	n/a	n/a	n/a	n/a
NCA01.3-RES	Residential	13	72-86	58	56	52	68	63	61	57	4 - 18	9 - 23	11 - 25	15 - 29	96	67	29
Compounds and Worksites																	
NCA01.1-COM	Commercial / indoor café/bars	27	62-74	n/a	n/a	n/a	70	70	70	70	up to 4	up to 4	up to 4	up to 4	n/a	n/a	n/a
NCA01.1-Occ	Other (Childcare)	383	<30	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA01.1-Oho	Other (Hotel)	40	59-71	n/a	n/a	n/a	70	70	70	60	up to 1	up to 1	up to 1	up to 11	n/a	n/a	n/a
NCA01.1-Ome	Other (Medical)	486	<30	n/a	n/a	n/a	55	55	55	55	-	-	-	-	n/a	n/a	n/a
NCA01.1-Oth	Other (Theatre/Auditorium)	622	up to 36	n/a	n/a	n/a	50	50	50	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA01.1-RES	Residential	228	up to 37	63	62	57	73	68	67	62	-	-	-	-	44	72	-
NCA01.2-COM	Commercial / indoor café/bars	315	41-53	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA01.2-Occ	Other (Childcare)	413	<30	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oct	Other (Court House)	465	up to 39	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oed	Other (Educational)	394	up to 32	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oho	Other (Hotel)	488	up to 38	n/a	n/a	n/a	70	70	70	60	-	-	-	-	n/a	n/a	n/a
NCA01.2-Ome	Other (Medical)	722	up to 33	n/a	n/a	n/a	55	55	55	55	-	-	-	-	n/a	n/a	n/a
NCA01.2-Opw	Other (Place of Worship)	697	<30	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oth	Other (Theatre/Auditorium)	498	up to 40	n/a	n/a	n/a	50	50	50	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA01.2-RES	Residential	408	40-52	64	62	56	74	69	67	61	-	-	-	-	59	71	-
NCA01.3-COM	Commercial / indoor café/bars	110	50-62	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA01.3-Oed	Other (Educational)	243	32-44	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA01.3-Oho	Other (Hotel)	155	47-59	n/a	n/a	n/a	70	70	70	60	-	-	-	-	n/a	n/a	n/a
NCA01.3-Oli	Other (Library)	200	37-49	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a

Appendix E1

Report 610.12515-R1

Page 5 of 6

Construction Noise Predictions – City Centre Precinct

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)								Noise Level – LA1(60second) (dBA)						
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night			
NCA01.3-Ome	Other (Medical)	337	up to 41	n/a	n/a	n/a	55	55	55	55	-	-	-	-	n/a	n/a	n/a
NCA01.3-Oop	Other (Outdoor Passive)	27	58-70	n/a	n/a	n/a	60	60	60	n/a	up to 10	up to 10	up to 10	n/a	n/a	n/a	n/a
NCA01.3-Opw	Other (Place of Worship)	268	31-43	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA01.3-Ors	Other (Recording Studio)	329	up to 39	n/a	n/a	n/a	45	45	45	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA01.3-Oth	Other (Theatre/Auditorium)	146	38-50	n/a	n/a	n/a	50	50	50	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA01.3-RES	Residential	209	44-56	58	56	52	68	63	61	57	-	-	-	-	63	67	-
Substations																	
NCA01.1-COM	Commercial / indoor café/bars	9	78-91	n/a	n/a	n/a	70	70	70	70	8 - 21	8 - 21	8 - 21	8 - 21	n/a	n/a	n/a
NCA01.1-Occ	Other (Childcare)	325	<30	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA01.1-Oho	Other (Hotel)	8	81-94	n/a	n/a	n/a	70	70	70	60	11 - 24	11 - 24	11 - 24	21 - 34	n/a	n/a	n/a
NCA01.1-Ome	Other (Medical)	167	41-54	n/a	n/a	n/a	55	55	55	55	-	-	-	-	n/a	n/a	n/a
NCA01.1-Oth	Other (Theatre/Auditorium)	47	42-55	n/a	n/a	n/a	50	50	50	n/a	up to 5	up to 5	up to 5	n/a	n/a	n/a	n/a
NCA01.1-RES	Residential	223	31-44	63	62	57	73	68	67	62	-	-	-	-	51	72	-
NCA01.2-COM	Commercial / indoor café/bars	33	68-81	n/a	n/a	n/a	70	70	70	70	up to 11	up to 11	up to 11	up to 11	n/a	n/a	n/a
NCA01.2-Occ	Other (Childcare)	350	<30	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oct	Other (Court House)	425	<30	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oed	Other (Educational)	294	up to 35	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oho	Other (Hotel)	403	up to 35	n/a	n/a	n/a	70	70	70	60	-	-	-	-	n/a	n/a	n/a
NCA01.2-Ome	Other (Medical)	673	<30	n/a	n/a	n/a	55	55	55	55	-	-	-	-	n/a	n/a	n/a
NCA01.2-Opw	Other (Place of Worship)	631	<30	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA01.2-Oth	Other (Theatre/Auditorium)	376	<30	n/a	n/a	n/a	50	50	50	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA01.2-RES	Residential	285	46-59	64	62	56	74	69	67	61	-	-	-	-	66	71	-
NCA01.3-COM	Commercial / indoor café/bars	19	71-84	n/a	n/a	n/a	70	70	70	70	1 - 14	1 - 14	1 - 14	1 - 14	n/a	n/a	n/a
NCA01.3-Oed	Other (Educational)	208	up to 42	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a

Appendix E1

Report 610.12515-R1

Page 6 of 6

Construction Noise Predictions – City Centre Precinct

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)												Noise Level – LA1(60second) (dBA)		
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night			
NCA01.3-Oho	Other (Hotel)	96	63-76	n/a	n/a	n/a	70	70	70	60	up to 6	up to 6	up to 6	3 - 16	n/a	n/a	n/a
NCA01.3-Oli	Other (Library)	1	96-109	n/a	n/a	n/a	55	55	n/a	n/a	41 - 54	41 - 54	n/a	n/a	n/a	n/a	n/a
NCA01.3-Ome	Other (Medical)	77	59-72	n/a	n/a	n/a	55	55	55	55	4 - 17	4 - 17	4 - 17	4 - 17	n/a	n/a	n/a
NCA01.3-Oop	Other (Outdoor Passive)	189	44-57	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA01.3-Opw	Other (Place of Worship)	132	40-53	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA01.3-Ors	Other (Recording Studio)	158	up to 41	n/a	n/a	n/a	45	45	45	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA01.3-Oth	Other (Theatre/Auditorium)	52	65-78	n/a	n/a	n/a	50	50	50	n/a	15 - 28	15 - 28	15 - 28	n/a	n/a	n/a	n/a
NCA01.3-RES	Residential	108	65-78	58	56	52	68	63	61	57	up to 10	2 - 15	4 - 17	8 - 21	85	67	18

Appendix E2

Report 610.12515-R1

Page 1 of 3

Construction Noise Predictions – Surry Hills Precinct

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)								Noise Level – LA1(60second) (dBA)						
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night			
Mainline Works																	
NCA02.1-COM	Commercial / indoor café/bars	3	84-99	n/a	n/a	n/a	70	70	70	70	14 - 29	14 - 29	14 - 29	14 - 29	n/a	n/a	n/a
NCA02.1-Ocb	Other (Outdoor Café/Bar)	4	81-96	n/a	n/a	n/a	60	60	60	n/a	21 - 36	21 - 36	21 - 36	n/a	n/a	n/a	n/a
NCA02.1-Occ	Other (Childcare)	11	75-90	n/a	n/a	n/a	50	50	n/a	n/a	25 - 40	25 - 40	n/a	n/a	n/a	n/a	n/a
NCA02.1-Oed	Other (Educational)	29	66-81	n/a	n/a	n/a	55	n/a	n/a	n/a	11 - 26	n/a	n/a	n/a	n/a	n/a	n/a
NCA02.1-Oho	Other (Hotel)	5	82-97	n/a	n/a	n/a	60	60	60	50	22 - 37	22 - 37	22 - 37	32 - 47	n/a	n/a	n/a
NCA02.1-Ome	Other (Medical)	7	78-93	n/a	n/a	n/a	55	55	55	55	23 - 38	23 - 38	23 - 38	23 - 38	n/a	n/a	n/a
NCA02.1-Oop	Other (Outdoor Passive)	11	74-89	n/a	n/a	n/a	60	60	60	n/a	14 - 29	14 - 29	14 - 29	n/a	n/a	n/a	n/a
NCA02.1-Opw	Other (Place of Worship)	5	81-96	n/a	n/a	n/a	55	55	n/a	n/a	26 - 41	26 - 41	n/a	n/a	n/a	n/a	n/a
NCA02.1-Ors	Other (Recording Studio)	5	80-95	n/a	n/a	n/a	45	45	45	n/a	35 - 50	35 - 50	35 - 50	n/a	n/a	n/a	n/a
NCA02.1-RES	Residential	5	80-95	44	43	39	54	49	48	44	26 - 41	31 - 46	32 - 47	36 - 51	101	54	47
Structures -Stops																	
NCA02.1-COM	Commercial / indoor café/bars	10	77-91	n/a	n/a	n/a	70	70	70	70	7 - 21	7 - 21	7 - 21	7 - 21	n/a	n/a	n/a
NCA02.1-Ocb	Other (Outdoor Café/Bar)	115	37-51	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA02.1-Occ	Other (Childcare)	26	63-77	n/a	n/a	n/a	50	50	n/a	n/a	13 - 27	13 - 27	n/a	n/a	n/a	n/a	n/a
NCA02.1-Oed	Other (Educational)	31	56-70	n/a	n/a	n/a	55	n/a	n/a	n/a	1 - 15	n/a	n/a	n/a	n/a	n/a	n/a
NCA02.1-Oho	Other (Hotel)	10	58-72	n/a	n/a	n/a	60	60	60	50	up to 12	up to 12	up to 12	8 - 22	n/a	n/a	n/a
NCA02.1-Oop	Other (Outdoor Passive)	12	75-89	n/a	n/a	n/a	60	60	60	n/a	15 - 29	15 - 29	15 - 29	n/a	n/a	n/a	n/a
NCA02.1-Opw	Other (Place of Worship)	55	56-70	n/a	n/a	n/a	55	55	n/a	n/a	1 - 15	1 - 15	n/a	n/a	n/a	n/a	n/a
NCA02.1-Ors	Other (Recording Studio)	250	32-46	n/a	n/a	n/a	45	45	45	n/a	up to 1	up to 1	up to 1	n/a	n/a	n/a	n/a
NCA02.1-RES	Residential	24	70-84	44	43	39	54	49	48	44	16 - 30	21 - 35	22 - 36	26 - 40	94	54	40

Appendix E2

Report 610.12515-R1

Page 2 of 3

Construction Noise Predictions – Surry Hills Precinct

Structures - Cut and Cover Tunnel																	
NCA02.1-COM	Commercial / indoor café/bars	64	32-51	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA02.1-Oed	Other (Educational)	136	up to 47	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA02.1-Ome	Other (Medical)	72	48-67	n/a	n/a	n/a	55	55	55	55	up to 12	up to 12	up to 12	up to 12	n/a	n/a	n/a
NCA02.1-RES	Residential	73	47-66	44	43	39	54	49	48	44	up to 12	up to 17	up to 18	3 - 22	74	54	20
Structures - Bridge Construction																	
NCA02.1-COM	Commercial / indoor café/bars	214	46-57	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA02.1-Ocb	Other (Outdoor Café/Bar)	217	44-55	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA02.1-Oed	Other (Educational)	100	40-51	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA02.1-Ome	Other (Medical)	33	64-75	n/a	n/a	n/a	55	55	55	55	9 - 20	9 - 20	9 - 20	9 - 20	n/a	n/a	n/a
NCA02.1-RES	Residential	42	61-72	44	43	39	54	49	48	44	7 - 18	12 - 23	13 - 24	17 - 28	80	54	26
Demolition Works																	
NCA02.1-COM	Commercial / indoor café/bars	61	71-73	n/a	n/a	n/a	70	70	70	70	1 - 3	1 - 3	1 - 3	1 - 3	n/a	n/a	n/a
NCA02.1-Ocb	Other (Outdoor Café/Bar)	64	68-70	n/a	n/a	n/a	60	60	60	n/a	8 - 10	8 - 10	8 - 10	n/a	n/a	n/a	n/a
NCA02.1-Oed	Other (Educational)	43	71-73	n/a	n/a	n/a	55	n/a	n/a	n/a	16 - 18	n/a	n/a	n/a	n/a	n/a	n/a
NCA02.1-Ome	Other (Medical)	10	90-92	n/a	n/a	n/a	55	55	55	55	35 - 37	35 - 37	35 - 37	35 - 37	n/a	n/a	n/a
NCA02.1-Oop	Other (Outdoor Passive)	340	47-49	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA02.1-Opw	Other (Place of Worship)	282	50-52	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA02.1-RES	Residential	19	84-86	44	43	39	54	49	48	44	30 - 32	35 - 37	36 - 38	40 - 42	94	54	40
Compounds and Worksites																	
NCA02.1-COM	Commercial / indoor café/bars	11	69-81	n/a	n/a	n/a	70	70	70	70	up to 11	up to 11	up to 11	up to 11	n/a	n/a	n/a
NCA02.1-Ocb	Other (Outdoor Café/Bar)	25	63-75	n/a	n/a	n/a	60	60	60	n/a	3 - 15	3 - 15	3 - 15	n/a	n/a	n/a	n/a
NCA02.1-Occ	Other (Childcare)	31	57-69	n/a	n/a	n/a	50	50	n/a	n/a	7 - 19	7 - 19	n/a	n/a	n/a	n/a	n/a
NCA02.1-Oed	Other (Educational)	56	50-62	n/a	n/a	n/a	55	n/a	n/a	n/a	up to 7	n/a	n/a	n/a	n/a	n/a	n/a
NCA02.1-Oho	Other (Hotel)	392	up to 38	n/a	n/a	n/a	60	60	60	50	-	-	-	-	n/a	n/a	n/a
NCA02.1-Ome	Other (Medical)	16	67-79	n/a	n/a	n/a	55	55	55	55	12 - 24	12 - 24	12 - 24	12 - 24	n/a	n/a	n/a
NCA02.1-Oop	Other (Outdoor Passive)	0	98-110	n/a	n/a	n/a	60	60	60	n/a	38 - 50	38 - 50	38 - 50	n/a	n/a	n/a	n/a
NCA02.1-Opw	Other (Place of Worship)	51	52-64	n/a	n/a	n/a	55	55	n/a	n/a	up to 9	up to 9	n/a	n/a	n/a	n/a	n/a

Appendix E2

Report 610.12515-R1

Page 3 of 3

Construction Noise Predictions – Surry Hills Precinct

NCA02.1-Ors	Other (Recording Studio)	329	up to 39	n/a	n/a	n/a	45	45	45	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA02.1-RES	Residential	16	67-79	44	43	39	54	49	48	44	13 - 25	18 - 30	19 - 31	23 - 35	86	54	32
Substations																	
NCA02.1-COM	Commercial / indoor café/bars	33	67-80	n/a	n/a	n/a	70	70	70	70	up to 10	up to 10	up to 10	up to 10	n/a	n/a	n/a
NCA02.1-Ocb	Other (Outdoor Café/Bar)	117	37-50	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA02.1-Occ	Other (Childcare)	42	60-73	n/a	n/a	n/a	50	50	n/a	n/a	10 - 23	10 - 23	n/a	n/a	n/a	n/a	n/a
NCA02.1-Oed	Other (Educational)	66	54-67	n/a	n/a	n/a	55	n/a	n/a	n/a	up to 12	n/a	n/a	n/a	n/a	n/a	n/a
NCA02.1-Oho	Other (Hotel)	96	59-72	n/a	n/a	n/a	60	60	60	50	up to 12	up to 12	up to 12	9 - 22	n/a	n/a	n/a
NCA02.1-Ome	Other (Medical)	83	38-51	n/a	n/a	n/a	55	55	55	55	-	-	-	-	n/a	n/a	n/a
NCA02.1-Oop	Other (Outdoor Passive)	3	88-101	n/a	n/a	n/a	60	60	60	n/a	28 - 41	28 - 41	28 - 41	n/a	n/a	n/a	n/a
NCA02.1-Opw	Other (Place of Worship)	53	58-71	n/a	n/a	n/a	55	55	n/a	n/a	3 - 16	3 - 16	n/a	n/a	n/a	n/a	n/a
NCA02.1-Ors	Other (Recording Studio)	160	up to 39	n/a	n/a	n/a	45	45	45	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA02.1-RES	Residential	33	68-81	44	43	39	54	49	48	44	14 - 27	19 - 32	20 - 33	24 - 37	88	54	34

Appendix E3

Report 610.12515-R1

Page 1 of 2

Construction Noise Predictions – Moore Park Precinct

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)								Noise Level – LA1(60second) (dBA)							
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.	
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night				
Mainline Works																		
NCA03.1-COM	Commercial / indoor café/bars	96	49-64	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a	
NCA03.1-Oed	Other (Educational)	69	53-68	n/a	n/a	n/a	55	n/a	n/a	n/a	up to 13	n/a	n/a	n/a	n/a	n/a	n/a	
NCA03.1-Ooa	Other (Outdoor Active)	35	61-76	n/a	n/a	n/a	65	65	65	n/a	up to 11	up to 11	up to 11	n/a	n/a	n/a	n/a	
NCA03.1-RES	Residential	25	66-81	54	51	42	64	59	56	47	2 - 17	7 - 22	10 - 25	19 - 34	87	57	30	
Structures -Stops																		
NCA03.1-COM	Commercial / indoor café/bars	173	44-58	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a	
NCA03.1-Oed	Other (Educational)	78	52-66	n/a	n/a	n/a	55	n/a	n/a	n/a	up to 11	n/a	n/a	n/a	n/a	n/a	n/a	
NCA03.1-Ooa	Other (Outdoor Active)	164	42-56	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	n/a	
NCA03.1-RES	Residential	718	31-45	54	51	42	64	59	56	47	-	-	-	-	55	57	-	
Structures - Cut and Cover Tunnel																		
NCA03.1-COM	Commercial / indoor café/bars	252	36-60	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a	
NCA03.1-Oed	Other (Educational)	128	41-69	n/a	n/a	n/a	55	n/a	n/a	n/a	up to 14	n/a	n/a	n/a	n/a	n/a	n/a	
NCA03.1-Ooa	Other (Outdoor Active)	35	56-75	n/a	n/a	n/a	65	65	65	n/a	up to 10	up to 10	up to 10	n/a	n/a	n/a	n/a	
NCA03.1-RES	Residential	1000	up to 44	54	51	42	64	59	56	47	-	-	-	-	52	57	-	
Structures - Bridge Construction																		
NCA03.1-COM	Commercial / indoor café/bars	549	33-44	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a	
NCA03.1-Oed	Other (Educational)	238	47-58	n/a	n/a	n/a	55	n/a	n/a	n/a	up to 3	n/a	n/a	n/a	n/a	n/a	n/a	
NCA03.1-Ooa	Other (Outdoor Active)	66	56-67	n/a	n/a	n/a	65	65	65	n/a	up to 2	up to 2	up to 2	n/a	n/a	n/a	n/a	
NCA03.1-RES	Residential	1190	n/a	54	51	42	64	59	56	47	n/a	n/a	n/a	n/a	8	57	-	
Substations																		
NCA03.1-COM	Commercial / indoor café/bars	126	48-61	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a	
NCA03.1-Oed	Other (Educational)	279	39-52	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a	
NCA03.1-Ooa	Other (Outdoor Active)	105	48-61	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	n/a	

Appendix E3

Report 610.12515-R1

Page 2 of 2

Construction Noise Predictions – Moore Park Precinct

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)												Noise Level – LA1(60second) (dBA)		
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night			
NCA03.1-RES	Residential	384	35-48	54	51	42	64	59	56	47	-	-	-	up to 1	55	57	-

Appendix E4

Report 610.12515-R1

Page 1 of 4

Construction Noise Predictions – Kensington / Kingsford Precinct

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)								Noise Level – LA1(60second) (dBA)						
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night			
Mainline Works																	
NCA04.1-COM	Commercial / indoor café/bars	11	74-89	n/a	n/a	n/a	70	70	70	70	4 - 19	4 - 19	4 - 19	4 - 19	n/a	n/a	n/a
NCA04.1-Oed	Other (Educational)	101	47-62	n/a	n/a	n/a	55	n/a	n/a	n/a	up to 7	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.1-Ooa	Other (Outdoor Active)	69	50-65	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA04.1-Opw	Other (Place of Worship)	27	62-77	n/a	n/a	n/a	55	55	n/a	n/a	7 - 22	7 - 22	n/a	n/a	n/a	n/a	n/a
NCA04.1-RES	Residential	9	76-91	53	50	39	63	58	55	44	13 - 28	18 - 33	21 - 36	32 - 47	97	54	43
NCA04.2-COM	Commercial / indoor café/bars	9	76-91	n/a	n/a	n/a	70	70	70	70	6 - 21	6 - 21	6 - 21	6 - 21	n/a	n/a	n/a
NCA04.2-Oed	Other (Educational)	9	76-91	n/a	n/a	n/a	55	n/a	n/a	n/a	21 - 36	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.2-Oho	Other (Hotel)	11	74-89	n/a	n/a	n/a	60	60	60	50	14 - 29	14 - 29	14 - 29	24 - 39	n/a	n/a	n/a
NCA04.2-Ome	Other (Medical)	10	75-90	n/a	n/a	n/a	55	55	55	55	20 - 35	20 - 35	20 - 35	20 - 35	n/a	n/a	n/a
NCA04.2-Opw	Other (Place of Worship)	20	69-84	n/a	n/a	n/a	55	55	n/a	n/a	14 - 29	14 - 29	n/a	n/a	n/a	n/a	n/a
NCA04.2-Ost	Other (Stables)	12	73-88	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.2-Oth	Other (Theatre/Auditorium)	28	66-81	n/a	n/a	n/a	50	50	50	n/a	16 - 31	16 - 31	16 - 31	n/a	n/a	n/a	n/a
NCA04.2-RES	Residential	9	76-91	59	57	46	69	64	62	51	7 - 22	12 - 27	14 - 29	25 - 40	97	61	36
NCA04.3-COM	Commercial / indoor café/bars	10	75-90	n/a	n/a	n/a	70	70	70	70	5 - 20	5 - 20	5 - 20	5 - 20	n/a	n/a	n/a
NCA04.3-Occ	Other (Childcare)	36	56-71	n/a	n/a	n/a	50	50	n/a	n/a	6 - 21	6 - 21	n/a	n/a	n/a	n/a	n/a
NCA04.3-Oed	Other (Educational)	40	63-78	n/a	n/a	n/a	55	n/a	n/a	n/a	8 - 23	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.3-Opw	Other (Place of Worship)	16	72-87	n/a	n/a	n/a	55	55	n/a	n/a	17 - 32	17 - 32	n/a	n/a	n/a	n/a	n/a
NCA04.3-RES	Residential	13	72-87	57	54	48	67	62	59	53	5 - 20	10 - 25	13 - 28	19 - 34	93	63	30
Structures -Stops																	
NCA04.1-COM	Commercial / indoor café/bars	472	35-49	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA04.1-Oed	Other (Educational)	807	up to 42	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.1-Ooa	Other (Outdoor Active)	699	up to 41	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA04.1-Opw	Other (Place of Worship)	581	31-45	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a

Appendix E4

Report 610.12515-R1

Page 2 of 4

Construction Noise Predictions – Kensington / Kingsford Precinct

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)										Noise Level – LA1(60second) (dBA)				
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night			
NCA04.1-RES	Residential	389	37-51	53	50	39	63	58	55	44	-	-	-	up to 7	61	54	7
NCA04.2-COM	Commercial / indoor café/bars	185	38-52	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA04.2-Oed	Other (Educational)	7	80-94	n/a	n/a	n/a	55	n/a	n/a	n/a	25 - 39	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.2-Oho	Other (Hotel)	401	35-49	n/a	n/a	n/a	60	60	60	50	-	-	-	-	n/a	n/a	n/a
NCA04.2-Ome	Other (Medical)	356	35-49	n/a	n/a	n/a	55	55	55	55	-	-	-	-	n/a	n/a	n/a
NCA04.2-Opw	Other (Place of Worship)	364	34-48	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA04.2-Ost	Other (Stables)	173	44-58	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.2-Oth	Other (Theatre/Auditorium)	41	65-79	n/a	n/a	n/a	50	50	50	n/a	15 - 29	15 - 29	15 - 29	n/a	n/a	n/a	n/a
NCA04.2-RES	Residential	71	60-74	59	57	46	69	64	62	51	up to 5	up to 10	up to 12	9 - 23	84	61	23
NCA04.3-COM	Commercial / indoor café/bars	33	66-80	n/a	n/a	n/a	70	70	70	70	up to 10	up to 10	up to 10	up to 10	n/a	n/a	n/a
NCA04.3-Occ	Other (Childcare)	39	61-75	n/a	n/a	n/a	50	50	n/a	n/a	11 - 25	11 - 25	n/a	n/a	n/a	n/a	n/a
NCA04.3-Oed	Other (Educational)	45	55-69	n/a	n/a	n/a	55	n/a	n/a	n/a	up to 14	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.3-Opw	Other (Place of Worship)	19	73-87	n/a	n/a	n/a	55	55	n/a	n/a	18 - 32	18 - 32	n/a	n/a	n/a	n/a	n/a
NCA04.3-RES	Residential	18	72-87	57	54	48	67	62	59	53	5 - 20	10 - 25	13 - 28	19 - 34	93	63	30
Compounds and Worksites																	
NCA04.1-COM	Commercial / indoor café/bars	173	36-48	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA04.1-Oed	Other (Educational)	108	42-54	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.1-Ooa	Other (Outdoor Active)	86	43-55	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA04.1-Opw	Other (Place of Worship)	217	36-48	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA04.1-RES	Residential	14	68-80	53	50	39	63	58	55	44	5 - 17	10 - 22	13 - 25	24 - 36	87	54	33
NCA04.2-COM	Commercial / indoor café/bars	51	50-62	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA04.2-Oed	Other (Educational)	1	95-107	n/a	n/a	n/a	55	n/a	n/a	n/a	40 - 52	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.2-Oho	Other (Hotel)	253	33-45	n/a	n/a	n/a	60	60	60	50	-	-	-	-	n/a	n/a	n/a
NCA04.2-Ome	Other (Medical)	320	30-42	n/a	n/a	n/a	55	55	55	55	-	-	-	-	n/a	n/a	n/a

Appendix E4

Report 610.12515-R1

Page 3 of 4

Construction Noise Predictions – Kensington / Kingsford Precinct

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)								Noise Level – LA1(60second) (dBA)						
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night			
NCA04.2-Opw	Other (Place of Worship)	222	33-45	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA04.2-Ost	Other (Stables)	30	63-75	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.2-Oth	Other (Theatre/Auditorium)	29	62-74	n/a	n/a	n/a	50	50	50	n/a	12 - 24	12 - 24	12 - 24	n/a	n/a	n/a	n/a
NCA04.2-RES	Residential	50	57-69	59	57	46	69	64	62	51	-	up to 5	up to 7	6 - 18	76	61	15
NCA04.3-COM	Commercial / indoor café/bars	10	71-83	n/a	n/a	n/a	70	70	70	70	1 - 13	1 - 13	1 - 13	1 - 13	n/a	n/a	n/a
NCA04.3-Occ	Other (Childcare)	36	55-67	n/a	n/a	n/a	50	50	n/a	n/a	5 - 17	5 - 17	n/a	n/a	n/a	n/a	n/a
NCA04.3-Oed	Other (Educational)	40	59-71	n/a	n/a	n/a	55	n/a	n/a	n/a	4 - 16	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.3-Opw	Other (Place of Worship)	15	69-81	n/a	n/a	n/a	55	55	n/a	n/a	14 - 26	14 - 26	n/a	n/a	n/a	n/a	n/a
NCA04.3-RES	Residential	14	68-80	57	54	48	67	62	59	53	1 - 13	6 - 18	9 - 21	15 - 27	87	63	24
Substations																	
NCA04.1-COM	Commercial / indoor café/bars	328	34-47	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA04.1-Oed	Other (Educational)	621	31-44	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.1-Ooa	Other (Outdoor Active)	536	up to 41	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA04.1-Opw	Other (Place of Worship)	496	32-45	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA04.1-RES	Residential	232	47-60	53	50	39	63	58	55	44	-	up to 2	up to 5	3 - 16	67	54	13
NCA04.2-COM	Commercial / indoor café/bars	61	58-71	n/a	n/a	n/a	70	70	70	70	up to 1	up to 1	up to 1	up to 1	n/a	n/a	n/a
NCA04.2-Oed	Other (Educational)	84	47-60	n/a	n/a	n/a	55	n/a	n/a	n/a	up to 5	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.2-Oho	Other (Hotel)	184	44-57	n/a	n/a	n/a	60	60	60	50	-	-	-	up to 7	n/a	n/a	n/a
NCA04.2-Ome	Other (Medical)	404	35-48	n/a	n/a	n/a	55	55	55	55	-	-	-	-	n/a	n/a	n/a
NCA04.2-Opw	Other (Place of Worship)	166	42-55	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA04.2-Ost	Other (Stables)	0	101-114	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.2-Oth	Other (Theatre/Auditorium)	85	53-66	n/a	n/a	n/a	50	50	50	n/a	3 - 16	3 - 16	3 - 16	n/a	n/a	n/a	n/a
NCA04.2-RES	Residential	67	56-69	59	57	46	69	64	62	51	-	up to 5	up to 7	5 - 18	76	61	15
NCA04.3-COM	Commercial / indoor café/bars	32	67-80	n/a	n/a	n/a	70	70	70	70	up to 10	up to 10	up to 10	up to 10	n/a	n/a	n/a

Appendix E4

Report 610.12515-R1

Page 4 of 4

Construction Noise Predictions – Kensington / Kingsford Precinct

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)										Noise Level – LA1(60second) (dBA)				
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night			
NCA04.3-Occ	Other (Childcare)	119	35-48	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA04.3-Oed	Other (Educational)	105	47-60	n/a	n/a	n/a	55	n/a	n/a	n/a	up to 5	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.3-Opw	Other (Place of Worship)	121	46-59	n/a	n/a	n/a	55	55	n/a	n/a	up to 4	up to 4	n/a	n/a	n/a	n/a	n/a
NCA04.3-RES	Residential	29	68-81	57	54	48	67	62	59	53	1 - 14	6 - 19	9 - 22	15 - 28	88	63	25

Appendix E5

Report 610.12515-R1

Page 1 of 3

Construction Noise Predictions – Randwick Precinct

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)								Noise Level – LA1(60second) (dBA)						
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night			
Mainline Works																	
NCA05.1-Oho	Other (Hotel)	75	64-79	n/a	n/a	n/a	60	60	60	50	4 - 19	4 - 19	4 - 19	14 - 29	n/a	n/a	n/a
NCA05.1-RES	Residential	15	68-83	53	50	39	63	58	55	44	5 - 20	10 - 25	13 - 28	24 - 39	89	54	35
NCA05.2-COM	Commercial / indoor café/bars	3	85-100	n/a	n/a	n/a	70	70	70	70	15 - 30	15 - 30	15 - 30	15 - 30	n/a	n/a	n/a
NCA05.2-RES	Residential	17	58-73	44	44	38	54	49	49	43	4 - 19	9 - 24	9 - 24	15 - 30	79	53	26
NCA05.3-COM	Commercial / indoor café/bars	19	69-84	n/a	n/a	n/a	70	70	70	70	up to 14	up to 14	up to 14	up to 14	n/a	n/a	n/a
NCA05.3-Oed	Other (Educational)	11	74-89	n/a	n/a	n/a	55	n/a	n/a	n/a	19 - 34	n/a	n/a	n/a	n/a	n/a	n/a
NCA05.3-Oho	Other (Hotel)	27	67-82	n/a	n/a	n/a	60	60	60	50	7 - 22	7 - 22	7 - 22	17 - 32	n/a	n/a	n/a
NCA05.3-Ome	Other (Medical)	8	77-92	n/a	n/a	n/a	55	55	55	55	22 - 37	22 - 37	22 - 37	22 - 37	n/a	n/a	n/a
NCA05.3-Ost	Other (Stables)	3	84-99	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
NCA05.3-RES	Residential	10	75-90	47	45	39	57	52	50	44	18 - 33	23 - 38	25 - 40	31 - 46	96	54	42
NCA05.4-COM	Commercial / indoor café/bars	47	55-70	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA05.4-Oho	Other (Hotel)	25	53-68	n/a	n/a	n/a	60	60	60	50	up to 8	up to 8	up to 8	3 - 18	n/a	n/a	n/a
NCA05.4-Ome	Other (Medical)	7	78-93	n/a	n/a	n/a	55	55	55	55	23 - 38	23 - 38	23 - 38	23 - 38	n/a	n/a	n/a
Structures -Stops																	
NCA05.1-Oho	Other (Hotel)	531	30-44	n/a	n/a	n/a	60	60	60	50	-	-	-	-	n/a	n/a	n/a
NCA05.1-RES	Residential	325	36-50	53	50	39	63	58	55	44	-	-	-	up to 6	60	54	6
NCA05.2-COM	Commercial / indoor café/bars	3	88-102	n/a	n/a	n/a	70	70	70	70	18 - 32	18 - 32	18 - 32	18 - 32	n/a	n/a	n/a
NCA05.2-RES	Residential	256	41-55	44	44	38	54	49	49	43	up to 1	up to 6	up to 6	up to 12	65	53	12
NCA05.3-COM	Commercial / indoor café/bars	223	41-55	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA05.3-Oed	Other (Educational)	60	61-75	n/a	n/a	n/a	55	n/a	n/a	n/a	6 - 20	n/a	n/a	n/a	n/a	n/a	n/a
NCA05.3-Oho	Other (Hotel)	237	40-54	n/a	n/a	n/a	60	60	60	50	-	-	-	up to 4	n/a	n/a	n/a

Appendix E5

Report 610.12515-R1

Page 2 of 3

Construction Noise Predictions – Randwick Precinct

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)								Noise Level – LA1(60second) (dBA)						
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night			
NCA05.3-Ome	Other (Medical)	128	36-50	n/a	n/a	n/a	55	55	55	55	-	-	-	-	n/a	n/a	n/a
NCA05.3-Ost	Other (Stables)	8	79-93	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
NCA05.3-RES	Residential	19	72-86	47	45	39	57	52	50	44	15 - 29	20 - 34	22 - 36	28 - 42	96	54	42
NCA05.4-COM	Commercial / indoor café/bars	94	49-63	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA05.4-Oho	Other (Hotel)	29	68-82	n/a	n/a	n/a	60	60	60	50	8 - 22	8 - 22	8 - 22	18 - 32	n/a	n/a	n/a
NCA05.4-Ome	Other (Medical)	34	62-76	n/a	n/a	n/a	55	55	55	55	7 - 21	7 - 21	7 - 21	7 - 21	n/a	n/a	n/a
Structures - Retaining Wall																	
NCA05.3-COM	Commercial / indoor café/bars	501	37-37	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA05.3-Oed	Other (Educational)	103	56-56	n/a	n/a	n/a	55	n/a	n/a	n/a	up to 1	n/a	n/a	n/a	n/a	n/a	n/a
NCA05.3-Oho	Other (Hotel)	515	35-35	n/a	n/a	n/a	60	60	60	50	-	-	-	-	n/a	n/a	n/a
NCA05.3-Ome	Other (Medical)	158	40-40	n/a	n/a	n/a	55	55	55	55	-	-	-	-	n/a	n/a	n/a
NCA05.3-Ost	Other (Stables)	2	98-98	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
NCA05.3-RES	Residential	17	81-81	47	45	39	57	52	50	44	up to 24	up to 29	up to 31	up to 37	83	54	29
Compounds and Worksites																	
NCA05.1-Oho	Other (Hotel)	118	40-52	n/a	n/a	n/a	60	60	60	50	-	-	-	up to 2	n/a	n/a	n/a
NCA05.1-RES	Residential	14	68-80	53	50	39	63	58	55	44	5 - 17	10 - 22	13 - 25	24 - 36	87	54	33
NCA05.2-COM	Commercial / indoor café/bars	37	62-74	n/a	n/a	n/a	70	70	70	70	up to 4	up to 4	up to 4	up to 4	n/a	n/a	n/a
NCA05.2-RES	Residential	14	68-80	44	44	38	54	49	49	43	14 - 26	19 - 31	19 - 31	25 - 37	87	53	34
NCA05.3-COM	Commercial / indoor café/bars	463	up to 34	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA05.3-Oed	Other (Educational)	460	up to 40	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA05.3-Oho	Other (Hotel)	476	up to 33	n/a	n/a	n/a	60	60	60	50	-	-	-	-	n/a	n/a	n/a
NCA05.3-Ome	Other (Medical)	466	up to 34	n/a	n/a	n/a	55	55	55	55	-	-	-	-	n/a	n/a	n/a
NCA05.3-Ost	Other (Stables)	629	up to 37	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
NCA05.3-RES	Residential	463	up to 36	47	45	39	57	52	50	44	-	-	-	-	43	54	-

Appendix E5

Report 610.12515-R1

Page 3 of 3

Construction Noise Predictions – Randwick Precinct

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)										Noise Level – LA1(60second) (dBA)				
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night			
NCA05.4-COM	Commercial / indoor café/bars	71	48-60	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA05.4-Oho	Other (Hotel)	24	63-75	n/a	n/a	n/a	60	60	60	50	3 - 15	3 - 15	3 - 15	13 - 25	n/a	n/a	n/a
NCA05.4-Ome	Other (Medical)	23	62-74	n/a	n/a	n/a	55	55	55	55	7 - 19	7 - 19	7 - 19	7 - 19	n/a	n/a	n/a
Substations																	
NCA05.1-Oho	Other (Hotel)	372	33-46	n/a	n/a	n/a	60	60	60	50	-	-	-	-	n/a	n/a	n/a
NCA05.1-RES	Residential	162	43-56	53	50	39	63	58	55	44	-	-	up to 1	up to 12	63	54	9
NCA05.2-COM	Commercial / indoor café/bars	48	65-78	n/a	n/a	n/a	70	70	70	70	up to 8	up to 8	up to 8	up to 8	n/a	n/a	n/a
NCA05.2-RES	Residential	96	51-64	44	44	38	54	49	49	43	up to 10	2 - 15	2 - 15	8 - 21	71	53	18
NCA05.3-COM	Commercial / indoor café/bars	367	34-47	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA05.3-Oed	Other (Educational)	400	34-47	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA05.3-Oho	Other (Hotel)	380	up to 40	n/a	n/a	n/a	60	60	60	50	-	-	-	-	n/a	n/a	n/a
NCA05.3-Ome	Other (Medical)	518	up to 36	n/a	n/a	n/a	55	55	55	55	-	-	-	-	n/a	n/a	n/a
NCA05.3-Ost	Other (Stables)	496	31-44	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
NCA05.3-RES	Residential	43	64-77	47	45	39	57	52	50	44	7 - 20	12 - 25	14 - 27	20 - 33	84	54	30
NCA05.4-COM	Commercial / indoor café/bars	134	44-57	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA05.4-Oho	Other (Hotel)	30	67-80	n/a	n/a	n/a	60	60	60	50	7 - 20	7 - 20	7 - 20	17 - 30	n/a	n/a	n/a
NCA05.4-Ome	Other (Medical)	75	54-67	n/a	n/a	n/a	55	55	55	55	up to 12	up to 12	up to 12	up to 12	n/a	n/a	n/a

Appendix E6

Report 610.12515-R1

Page 1 of 1

Construction Noise Predictions – Randwick Stabling Yard

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)										Noise Level – LA1(60second) (dBA)					
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.	
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night				
Randwick Stabling Yard Works																		
NCA04.1-COM	Commercial / indoor café/bars	214	38-51	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a	
NCA04.1-Oed	Other (Educational)	575	up to 44	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a	
NCA04.1-Ooa	Other (Outdoor Active)	462	up to 37	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	n/a	
NCA04.1-Opw	Other (Place of Worship)	281	36-46	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a	
NCA04.1-RES	Residential	154	49-63	53	50	39	63	58	55	44	-	up to 5	up to 8	5 - 19	69	54	15	
NCA05.1-Oho	Other (Hotel)	303	33-48	n/a	n/a	n/a	60	60	60	50	-	-	-	-	n/a	n/a	n/a	
NCA05.1-RES	Residential	92	48-63	53	50	39	63	58	55	44	-	up to 5	up to 8	4 - 19	69	54	15	
NCA05.2-COM	Commercial / indoor café/bars	18	67-80	n/a	n/a	n/a	70	70	70	70	up to 10	up to 10	up to 10	up to 10	n/a	n/a	n/a	
NCA05.2-RES	Residential	21	69-84	44	44	38	54	49	49	43	15 - 30	20 - 35	20 - 35	26 - 41	90	53	37	

Appendix E7

Report 610.12515-R1

Page 1 of 1

Construction Noise Predictions – Rozelle Maintenance Facility

NCA	Type	Min. Distance (m)	Noise Level – LAeq(15minute) (dBA)												Noise Level – LA1(60second) (dBA)		
			Worst-case Predicted at Nearby Receivers	RBL			NML				NML Exceedance				Worst-case Predicted (night-time)	Screening Crit. (RBL+15 dBA)	Exceed.
				Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve	Night			
Rozelle Maintenance Facility Works																	
NCA06.1-COM	Commercial / indoor café/bars	40	65-78	n/a	n/a	n/a	70	70	70	70	up to 8	up to 8	up to 8	up to 8	n/a	n/a	n/a
NCA06.1-RES	Residential	40	66-77	56	55	47	66	61	60	52	up to 11	5 - 16	6 - 17	14 - 25	83	62	21
NCA06.2-COM	Commercial / indoor café/bars	53	56-64	n/a	n/a	n/a	70	70	70	70	-	-	-	-	n/a	n/a	n/a
NCA06.2-RES	Residential	53	57-71	49	49	42	59	54	54	47	up to 12	3 - 17	3 - 17	10 - 24	77	57	20

Item	Description / Definition
AADT	Annual Average Daily Traffic (AADT) is the total yearly traffic volume in both directions divided by the number of days in the year
AS	Australian Standard
CBD	Central Business District
CEMP	Construction Environmental Management Plan
CSELR	CBD and South East Light Rail
CNVMP	Construction Noise and Vibration Management Plan
CORTN	Calculation of Road Traffic Noise
dB	Decibel
DEC	Department of Environment and Conservation (now EPA)
DECC	Department of Environment and Climate Change (now EPA)
DECCW	Department of Environment, Climate Change and Water (now EPA)
EIS	Environmental Impact Statement
EPA	Environment Protection Authority
ICNG	Interim Construction Noise Guideline
INP	Industrial Noise Policy
LRV	Light Rail Vehicle
NATA	National Association of Testing Authorities
NCA	Noise Catchment Area
NIDA	National Institute of Dramatic Art
NML	Noise Management Level
NSW	New South Wales
OOHW	Out of Hours Works
PA	Public Address System
QVB	Queen Victoria Building
RBL	Rating Background Level
RING	Rail Infrastructure Noise Guideline
RNP	Road Noise Policy
SLR	SLR Consulting Australia Pty Ltd
SWL	Sound Power Level
TfNSW	Transport for NSW
UNSW	University of NSW
VDV	Vibration Dose Value