NW.A02.EB01 East / Extension

Wall Height	TNB	TNBA	MBV	Median IL (50 dB Contour)	Number of Properties Eligible for Treatment	% Reduction Treatments	Number of Receivers with > 2 dB IL	Number of Receivers within 50 dB Contour	Discussion / Justification
0.0 m	0	0.00	0.0	0.0	18	0%	0	144	The Assessed barrier would not meet all of the requirements in the ENMM Practice Note IV(a). Consideration of how many receivers satisfy the RNP criteria (of those considered for treatment by the ENMM) shows that the Assessed barrier does not reduce the number of receivers that exceed the RNP criteria. Therefore, the existing barrier height is recommended for this location.
0.5 m	0	0.00	0.0	0.0	18	0%	0		
1.0 m	0	0.00	0.0	0.0	18	0%	0		
1.5 m	0	0.00	0.0	0.0	18	0%	0		
2.0 m	0	0.00	0.0	0.0	18	0%	0		
2.5 m	36.4	0.03	72.8	2.2	18	0%	16		
3.0 m	62.6	0.04	52.4	3.1	18	0%	21		
3.5 m	90.5	0.05	55.8	4.0	18	0%	25		
4.0 m	121	0.06	61.0	4.8	18	0%	29		
4.5 m	153.2	0.07	64.4	4.9	18	0%	35		
5.0 m	188.4	0.07	70.4	3.7	18	0%	42		
5.5 m	221.9	0.08	67.0	4.0	18	0%	48		
6.0 m	277.7	0.09	111.6	3.3	18	0%	64		
6.5 m	359.2	0.11	163.0	2.8	18	0%	90		
7.0 m	430.4	0.12	142.4	2.8	18	0%	111		
7.5 m	487.9	0.12	115.0	3.0	17	100%	123		
8.0 m	527.7	0.13	79.6	3.2	17	100%	127		

Note 1: TNB = Total Noise Benefit, TNBA = Total Benefit per Unit Barrier Area, MBV = Marginal Benefit Value, IL = Insertion Loss of Barrier in dB.
Note 2: It is noted that the western edge of the noise barrier is an existing barrier which is displaced as part of the widening works. The RL of the displaced section of the noise barrier should be maintained unless the recommended barrier height is greater.

NW.A02.EB01/02 West

Wall Height	TNB	TNBA	MBV	Median IL (50 dB Contour)	Number of Properties Eligible for Treatment	% Reduction Treatments	Number of Receivers with > 2 dB IL	Number of Receivers within 50 dB Contour	Discussion / Justification
0.0 m	0	0.00	0.0	0.0	26	0%	0	148	The Assessed barrier would not meet all of the requirements in the ENMM Practice Note IV(a). Consideration of how many receivers experience > 2dB Insertion Loss benefit identifies that the Assessed barrier provides an overall acoustic benefit to the community. Therefore, the Assessed barrier height is recommended for this location. This should be investigated during the detailed design stage of the project.
0.5 m	0	0.00	0.0	0.0	26	0%	0		
1.0 m	0	0.00	0.0	0.0	26	0%	0		
1.5 m	10.9	0.01	21.8	2.6	26	0%	4		
2.0 m	47.5	0.03	73.2	2.3	26	0%	18		
2.5 m	104.7	0.05	114.4	2.6	26	0%	36		
3.0 m	154	0.06	98.6	3.1	26	0%	47		
3.5 m	205.7	0.07	103.4	3.2	26	0%	59		
4.0 m	286.7	0.08	162.0	3.1	26	0%	82		
4.5 m	354.7	0.09	136.0	3.0	26	0%	97		
5.0 m	391.5	0.09	73.6	3.3	26	0%	99		
5.5 m	433.4	0.09	83.8	3.5	25	11%	104		
6.0 m	467.9	0.09	69.0	3.7	25	11%	107		
6.5 m	501.1	0.09	66.4	3.9	25	11%	113		
7.0 m	528.7	0.09	55.2	4.1	22	44%	116		
7.5 m	556.7	0.08	56.0	4.2	18	89%	119		
8.0 m	585.6	0.08	57.8	4.4	17	100%	123		

NW.A02.EB03

Wall Height	TNB	TNBA	MBV	Median IL (50 dB Contour)	Number of Properties Eligible for Treatment	% Reduction Treatments	Number of Receivers with > 2 dB IL	Number of Receivers within 50 dB Contour	Discussion / Justification
0.0 m	0	0.00	0.0	0.0	12	0%	0	164	The Assessed barrier satisfies all of the requirements in the ENMM Practice Note IV(a). However, the Assessed barrier only reduces the number of properties eligible for treatment by a single additional receiver, when compared to a barrier of 6.0 m. Assessed barrier: 9 receivers no longer need architectural treatment 6.0 m barrier: 8 receivers no longer need architectural treatment A barrier of 6.0 m is preferred due to other feasible and reasonable constraints such as landscaping, overshadowing, structural footings and community views as advised by RMS. Therefore, a barrier height of 6.0 m is recommended for this location.
0.5 m	0	0.00	0.0	0.0	12	0%	0		
1.0 m	4.3	0.01	8.6	2.2	12	0%	2		
1.5 m	46.2	0.05	83.8	2.3	12	0%	19		
2.0 m	101.4	0.08	110.4	2.9	12	0%	35		
2.5 m	158.8	0.11	114.8	3.6	12	0%	47		
3.0 m	213.4	0.12	109.2	3.8	12	0%	56		
3.5 m	281.1	0.13	135.4	3.8	12	0%	69		
4.0 m	337.4	0.14	112.6	4.2	12	0%	76		
4.5 m	392.6	0.15	110.4	4.4	11	8%	83		
5.0 m	466	0.16	146.8	4.0	7	42%	99		
5.5 m	524	0.16	116.0	4.2	5	58%	107		
6.0 m	601.4	0.17	154.8	4.4	4	67%	124		
6.5 m	663.9	0.17	125.0	4.4	4	67%	133		
7.0 m	734.8	0.17	141.8	4.1	3	75%	147		
7.5 m	793.1	0.18	116.6	4.2	2	83%	154		
8.0 m	850.8	0.18	115.4	4.2	0	100%	161		

NW.A02.WB01a/b

Wall Height	TNB	TNBA	MBV	Median IL (50 dB Contour)	Number of Properties Eligible for Treatment	% Reduction Treatments	Number of Receivers with > 2 dB IL	Number of Receivers within 50 dB Contour	Discussion / Justification
0.0 m	0	0.00	0.0	0.0	12	0%	0	17	The Assessed barrier would not meet all of the requirements in the ENMM Practice Note IV(a). Consideration of the median Insertion Loss for all receivers identifies that the Assessed barrier provides an overall acoustic benefit to the community. Therefore, the Assessed barrier height is recommended for this location.
0.5 m	0	0.00	0.0	0.0	12	0%	0		
1.0 m	0	0.00	0.0	0.0	12	0%	0		
1.5 m	0	0.00	0.0	0.0	12	0%	0		
2.0 m	0	0.00	0.0	0.0	12	0%	0		
2.5 m	10.6	0.01	21.2	2.7	12	0%	4		
3.0 m	16.6	0.01	12.0	3.4	12	0%	5		
3.5 m	39.8	0.02	46.4	2.6	12	0%	13		
4.0 m	48.6	0.02	17.6	3.3	12	0%	13		
4.5 m	59	0.02	20.8	4.0	12	0%	14		
5.0 m	69	0.02	20.0	4.4	12	0%	15		
5.5 m	78.8	0.02	19.6	4.9	12	0%	16		
6.0 m	85.2	0.02	12.8	5.3	12	0%	16		
6.5 m	91.1	0.02	11.8	5.8	12	0%	16		
7.0 m	96.7	0.02	11.2	6.1	11	33%	16		
7.5 m	101.7	0.02	10.0	6.3	10	67%	16		
8.0 m	106.3	0.02	9.2	6.5	9	100%	16		

NW.A02.WB02

Wall Height	TNB	TNBA	MBV	Median IL (50 dB Contour)	Number of Properties Eligible for Treatment	% Reduction Treatments	Number of Receivers with > 2 dB IL	Number of Receivers within 50 dB Contour	Discussion / Justification
0.0 m	0	0.00	0.0	0.0	35	0%	0	211	The Assessed barrier would not meet all of the requirements in the ENMM Practice Note IV(a). However, the Assessed barrier reduces the number of properties eligible for treatment by 6%. Increasing the barrier height from 3.5 to 4.0 m reduces the number of properties eligible for treatment by 29%. A barrier height of 4.0m is therefore recommended. This should be investigated during the detailed design stage of the project.
0.5 m	0	0.00	0.0	0.0	35	0%	0		
1.0 m	0	0.00	0.0	0.0	35	0%	0		
1.5 m	0	0.00	0.0	0.0	35	0%	0		
2.0 m	19.3	0.01	38.6	2.1	35	0%	9		
2.5 m	135.5	0.03	232.4	2.7	35	0%	51		
3.0 m	265.8	0.06	260.6	2.8	35	0%	90		
3.5 m	408.4	0.07	285.2	3.1	33	6%	127		
4.0 m	509.9	0.08	203.0	3.4	25	29%	143		
4.5 m	599.3	0.09	178.8	3.7	13	63%	157		
5.0 m	646.1	0.08	93.6	4.0	5	86%	156		
5.5 m	687	0.08	81.8	4.1	4	89%	157		
6.0 m	731.5	0.08	89.0	4.3	1	97%	158		
6.5 m	748.1	0.07	33.2	4.5	1	97%	153		
7.0 m	759.7	0.07	23.2	4.5	1	97%	153		
7.5 m	785.1	0.07	50.8	4.6	1	97%	156		
8.0 m	797	0.06	23.8	4.7	0	100%	155		

NW.A02.WB03

Wall Height	TNB	TNBA	MBV	Median IL (50 dB Contour)	Number of Properties Eligible for Treatment	% Reduction Treatments	Number of Receivers with > 2 dB IL	Number of Receivers within 50 dB Contour	Discussion / Justification
0.0 m	0	0.00	0.0	0.0	39	0%	0	381	Barrier not feasible.
0.5 m	0	0.00	0.0	0.0	39	0%	0		
1.0 m	0	0.00	0.0	0.0	39	0%	0		
1.5 m	0	0.00	0.0	0.0	39	0%	0		
2.0 m	0	0.00	0.0	0.0	39	0%	0		
2.5 m	0	0.00	0.0	0.0	39	0%	0		
3.0 m	0	0.00	0.0	0.0	39	0%	0		
3.5 m	0	0.00	0.0	0.0	39	0%	0		
4.0 m	0	0.00	0.0	0.0	39	0%	0		
4.5 m	0	0.00	0.0	0.0	39	0%	0		
5.0 m	0	0.00	0.0	0.0	39	0%	0		
5.5 m	0	0.00	0.0	0.0	39	0%	0		
6.0 m	0	0.00	0.0	0.0	39	0%	0		
6.5 m	0	0.00	0.0	0.0	39	0%	0		
7.0 m	0	0.00	0.0	0.0	39	0%	0		
7.5 m	0	0.00	0.0	0.0	39	0%	0		
8.0 m	0	0.00	0.0	0.0	39	0%	0		

NW.A03.EB01 – East

Wall Height	TNB	TNBA	MBV	Median IL (50 dB Contour)	Number of Properties Eligible for Treatment	% Reduction Treatments	Number of Receivers with > 2 dB IL	Number of Receivers within 50 dB Contour	Discussion / Justification
0.0 m	0	0.00	0.0	0.0	7	0%	0	76	The Assessed barrier would not meet all of the requirements in the ENMM Practice Note IV(a). Consideration of how many receivers satisfy the RNP criteria (of those considered for treatment by the ENMM) shows that the Assessed barrier does not reduce the number of receivers that exceed the RNP criteria. Therefore, the existing barrier height is recommended for this location.
0.5 m	0	0.00	0.0	0.0	7	0%	0		
1.0 m	0	0.00	0.0	0.0	7	0%	0		
1.5 m	0	0.00	0.0	0.0	7	0%	0		
2.0 m	0	0.00	0.0	0.0	7	0%	0		
2.5 m	2.6	0.00	5.2	2.6	7	0%	1		
3.0 m	5.8	0.00	6.4	2.9	7	0%	2		
3.5 m	9.8	0.01	8.0	3.1	7	0%	3		
4.0 m	23.2	0.01	26.8	2.5	7	0%	8		
4.5 m	34.8	0.02	23.2	2.7	7	0%	11		
5.0 m	42.2	0.02	14.8	3.4	7	0%	11		
5.5 m	49.6	0.02	14.8	4.3	7	0%	11		
6.0 m	58.8	0.02	18.4	5.1	7	0%	12		
6.5 m	69.3	0.02	21.0	5.8	6	100%	13		
7.0 m	81.3	0.03	24.0	6.1	6	100%	15		
7.5 m	91.5	0.03	20.4	5.6	6	100%	16		
8.0 m	101.4	0.03	19.8	4.9	6	100%	17		

NW.A03.EB01 – Mound

Wall Height	TNB	TNBA	MBV	Median IL (50 dB Contour)	Number of Properties Eligible for Treatment	% Reduction Treatments	Number of Receivers with > 2 dB IL	Number of Receivers within 50 dB Contour	Discussion / Justification
0.0 m	0	0.00	0.0	0.0	18	0%	0	72	The Assessed barrier satisfies all of the requirements in the ENMM Practice Note IV(a). However, a barrier of 6.0 m is preferred due to other feasible and reasonable constraints such as landscaping, overshadowing, structural footings and community views as advised by RMS. Therefore, a barrier height of 6.0 m is recommended for this location.
0.5 m	0	0.00	0.0	0.0	18	0%	0		
1.0 m	0	0.00	0.0	0.0	18	0%	0		
1.5 m	12.8	0.03	25.6	2.1	18	0%	6		
2.0 m	38.4	0.06	51.2	2.8	18	0%	14		
2.5 m	58.5	0.07	40.2	3.4	18	0%	18		
3.0 m	73.1	0.08	29.2	4.0	18	0%	19		
3.5 m	90	0.08	33.8	4.5	18	0%	21		
4.0 m	107.4	0.08	34.8	5.1	18	0%	23		
4.5 m	121.2	0.08	27.6	5.8	18	0%	23		
5.0 m	139.4	0.09	36.4	6.4	18	0%	25		
5.5 m	160.9	0.09	43.0	6.5	18	0%	28		
6.0 m	172	0.09	22.2	6.8	16	15%	28		
6.5 m	191.1	0.09	38.2	6.5	10	62%	30		
7.0 m	207.3	0.09	32.4	6.6	9	69%	31		
7.5 m	224	0.09	33.4	7.1	6	92%	32		
8.0 m	244.9	0.10	41.8	6.8	5	100%	35		

NW.A03.EB01 – West

Wall Height	TNB	TNBA	MBV	Median IL (50 dB Contour)	Number of Properties Eligible for Treatment	% Reduction Treatments	Number of Receivers with > 2 dB IL	Number of Receivers within 50 dB Contour	Discussion / Justification
0.0 m	0	0.00	0.0	0.0	8	0%	0	47	The Assessed barrier satisfies all of the requirements in the ENMM Practice Note IV(a). However, a barrier of 6.0 m is preferred due to other feasible and reasonable constraints such as landscaping, overshadowing, structural footings and community views as advised by RMS. Therefore, a barrier height of 6.0 m is recommended for this location.
0.5 m	0	0.00	0.0	0.0	8	0%	0		
1.0 m	0	0.00	0.0	0.0	8	0%	0		
1.5 m	5.2	0.01	10.4	2.6	8	0%	2		
2.0 m	12.1	0.02	13.8	3.2	8	0%	4		
2.5 m	15.7	0.02	7.2	4.2	8	0%	4		
3.0 m	28.3	0.03	25.2	2.9	8	0%	8		
3.5 m	42.6	0.04	28.6	3.3	8	0%	11		
4.0 m	59.7	0.04	34.2	4.0	8	0%	14		
4.5 m	73.4	0.05	27.4	4.5	8	0%	15		
5.0 m	87.6	0.05	28.4	5.3	8	0%	16		
5.5 m	98.5	0.05	21.8	6.0	8	0%	16		
6.0 m	102.6	0.05	8.2	7.2	8	0%	15		
6.5 m	113.6	0.05	22.0	7.3	8	0%	16		
7.0 m	128.3	0.05	29.4	7.0	6	67%	19		
7.5 m	139.2	0.06	21.8	6.7	6	67%	20		
8.0 m	140.9	0.05	3.4	5.0	5	100%	22		

NW.A03.WB01a/b

Wall Height	TNB	TNBA	MBV	Median IL (50 dB Contour)	Number of Properties Eligible for Treatment	% Reduction Treatments	Number of Receivers with > 2 dB IL	Number of Receivers within 50 dB Contour	Discussion / Justification
0.0 m	0	0.00	0.0	0.0	2	0%	0	63	The Assessed barrier satisfies all of the requirements in the ENMM Practice Note IV(a). However, no significant increase in the TNBA is identified between the existing barrier and the Assessed barrier. Therefore, retain the existing barrier height of 3.5 m is recommended for this location.
0.5 m	0	0.00	0.0	0.0	2	0%	0		
1.0 m	0	0.00	0.0	0.0	2	0%	0		
1.5 m	15.1	0.02	30.2	2.5	2	0%	6		
2.0 m	37.7	0.04	45.2	2.8	2	0%	13		
2.5 m	65.7	0.06	56.0	3.0	2	0%	21		
3.0 m	100.5	0.08	69.6	3.0	2	0%	30		
3.5 m	139.9	0.09	78.8	3.0	2	0%	40		
4.0 m	168.6	0.10	57.4	3.3	2	0%	44		
4.5 m	195.2	0.10	53.2	3.5	2	0%	48		
5.0 m	218.6	0.10	46.8	3.7	2	0%	51		
5.5 m	237.5	0.10	37.8	4.0	2	0%	52		
6.0 m	258.9	0.10	42.8	4.1	2	0%	55		
6.5 m	275.7	0.10	33.6	4.3	2	0%	56		
7.0 m	290.6	0.10	29.8	4.5	2	0%	57		
7.5 m	302.3	0.09	23.4	4.7	2	0%	57		
8.0 m	313.6	0.09	22.6	4.9	1	100%	57		

Predicted Residential Noise Levels - Timeframe 1, Final Build Scenario

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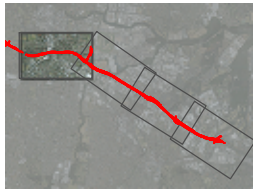

≤ 59	63	Noise Barriers - Design
60	64	Noise Barriers - Replaced
61	≥65	Noise Barriers - Retain Existing
62		Noise Barriers - Supplement Existing

NOTE: Indicated noise level relates to maximum overall road noise facade level for floor 1 and 2 for each building and excludes facades dominated by secondary road noise where the predicted project-related road noise does not make a significant contribution.

WestConnex Delivery Authority

Predicted Residential Noise Levels (dBA)

2017 Final Build, with Recommended Noise Barriers Day LAeq(15hour)

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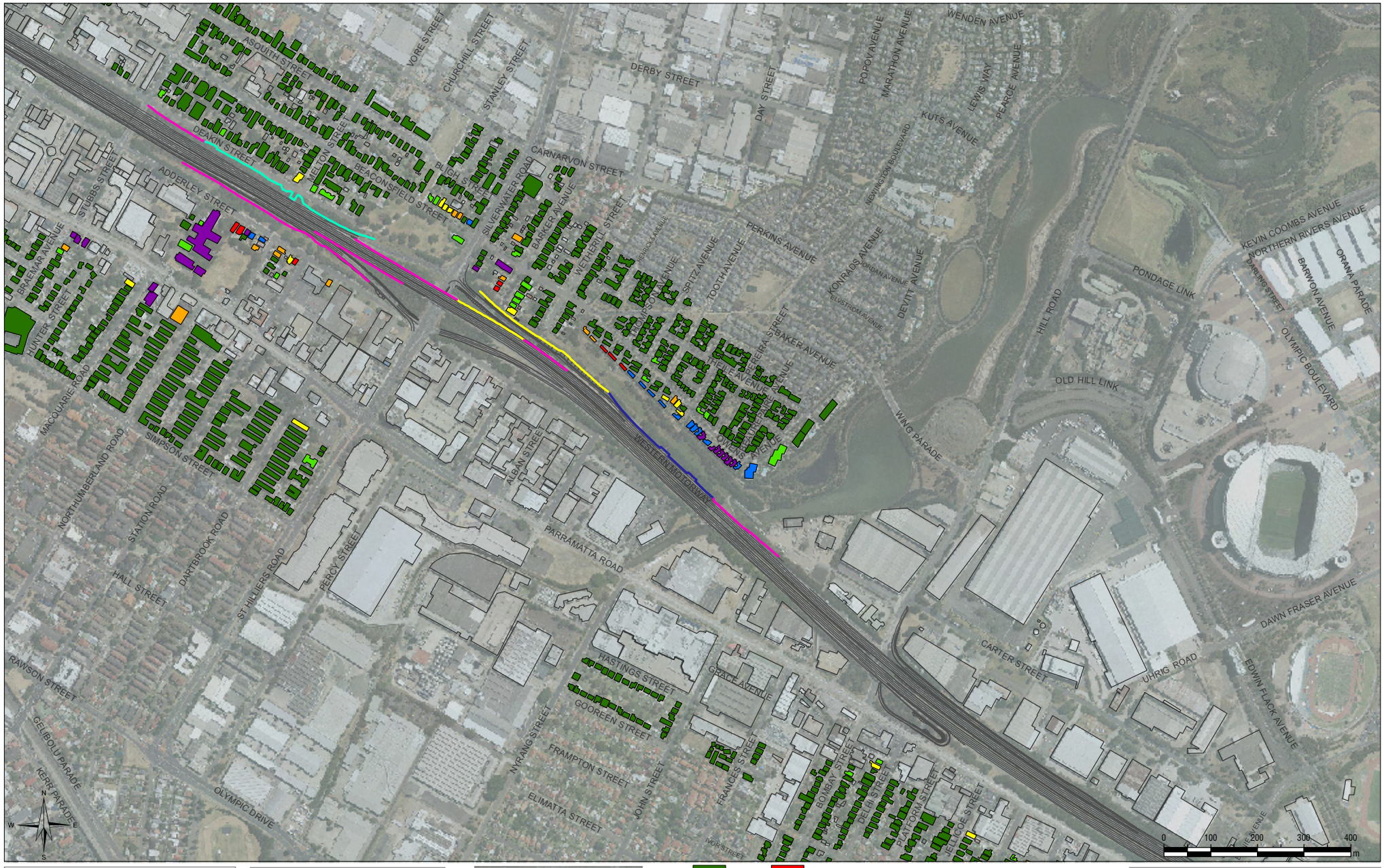
≤ 59	63	Noise Barriers - Design
60	64	Noise Barriers - Replaced
61	≥65	Noise Barriers - Retain Existing
62		Noise Barriers - Supplement Existing

NOTE: Indicated noise level relates to maximum overall road noise facade level for floor 1 and 2 for each building and excludes facades dominated by secondary road noise where the predicted project-related road noise does not make a significant contribution.

WestConnex Delivery Authority

Predicted Residential Noise Levels (dBA)

2017 Final Build, with Recommended Noise Barriers Day LAeq(15hour)



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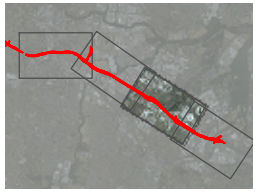

≤ 59	63	Noise Barriers - Design
60	64	Noise Barriers - Replaced
61	≥65	Noise Barriers - Retain Existing
62		Noise Barriers - Supplement Existing

NOTE: Indicated noise level relates to maximum overall road noise facade level for floor 1 and 2 for each building and excludes facades dominated by secondary road noise where the predicted project-related road noise does not make a significant contribution.

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Predicted Residential Noise Levels (dBA)

2017 Final Build, with Recommended Noise Barriers Day LAeq(15hour)

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62		Noise Barriers - Supplement Existing

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WestConnex Delivery Authority

Predicted Residential Noise Levels (dBA)

2017 Final Build, with Recommended Noise Barriers Day LAeq(15hour)

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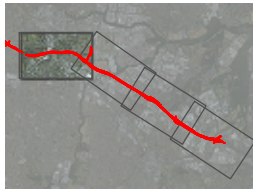

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WestConnex Delivery Authority

Predicted Residential Noise Levels (dBA)

2017 Final Build, with Recommended Noise Barriers Night-time LAeq(9hour)

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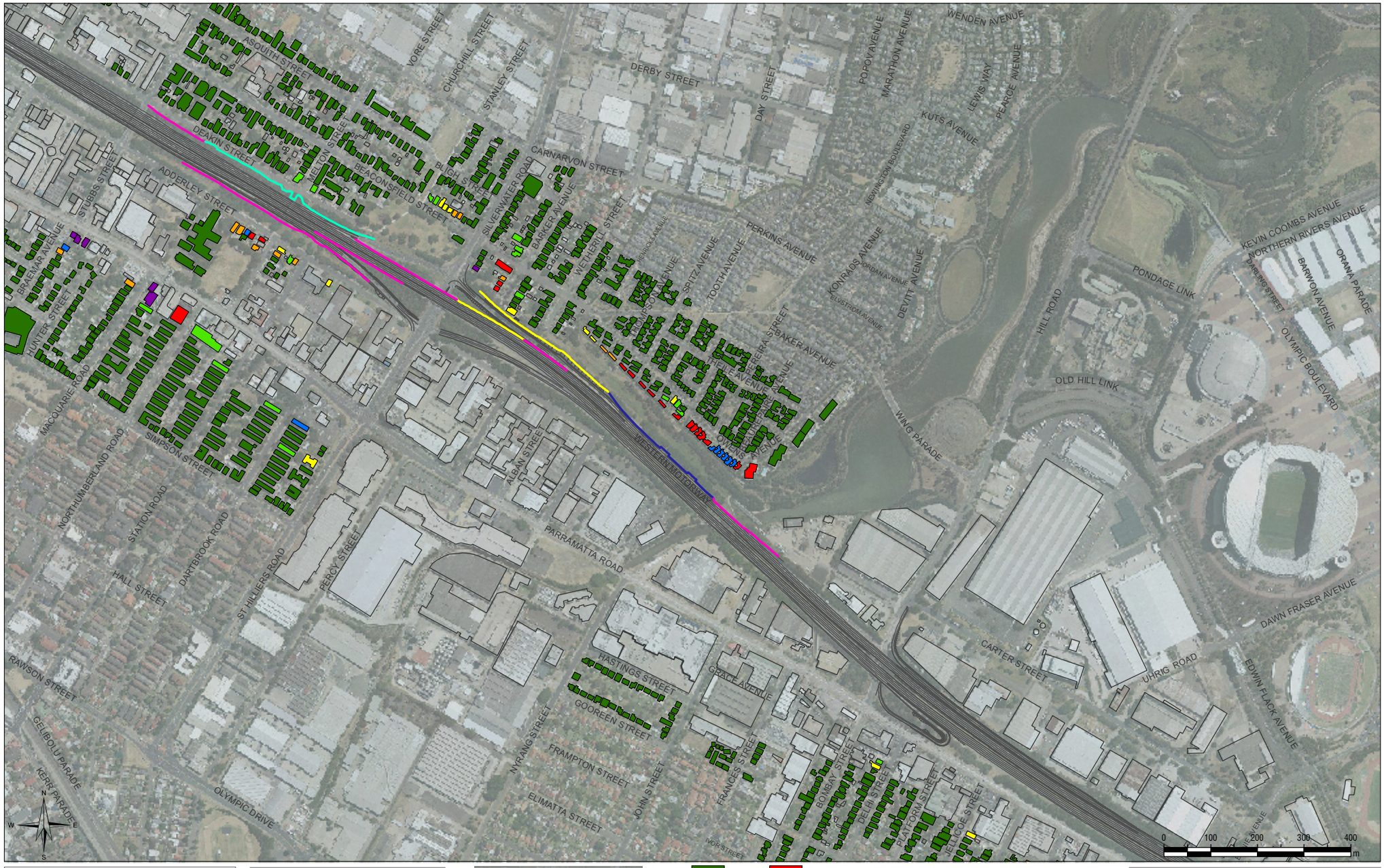
2017 Final Build, with Recommended Noise Barriers Night-time LAeq(9hour)



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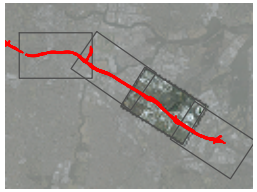

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2017 Final Build, with Recommended Noise Barriers Night-time LAeq(9hour)

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WestConnex Delivery Authority

Predicted Residential Noise Levels (dBA)

2017 Final Build, with Recommended Noise Barriers Night-time LAeq(9hour)

Predicted Residential Noise Levels - Timeframe 2, Final Build Scenario

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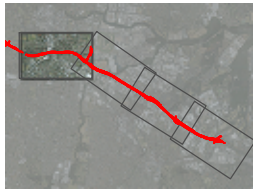

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Predicted Residential Noise Levels (dBA)

2027 Final Build, with Recommended Noise Barriers Day LAeq(15hour)

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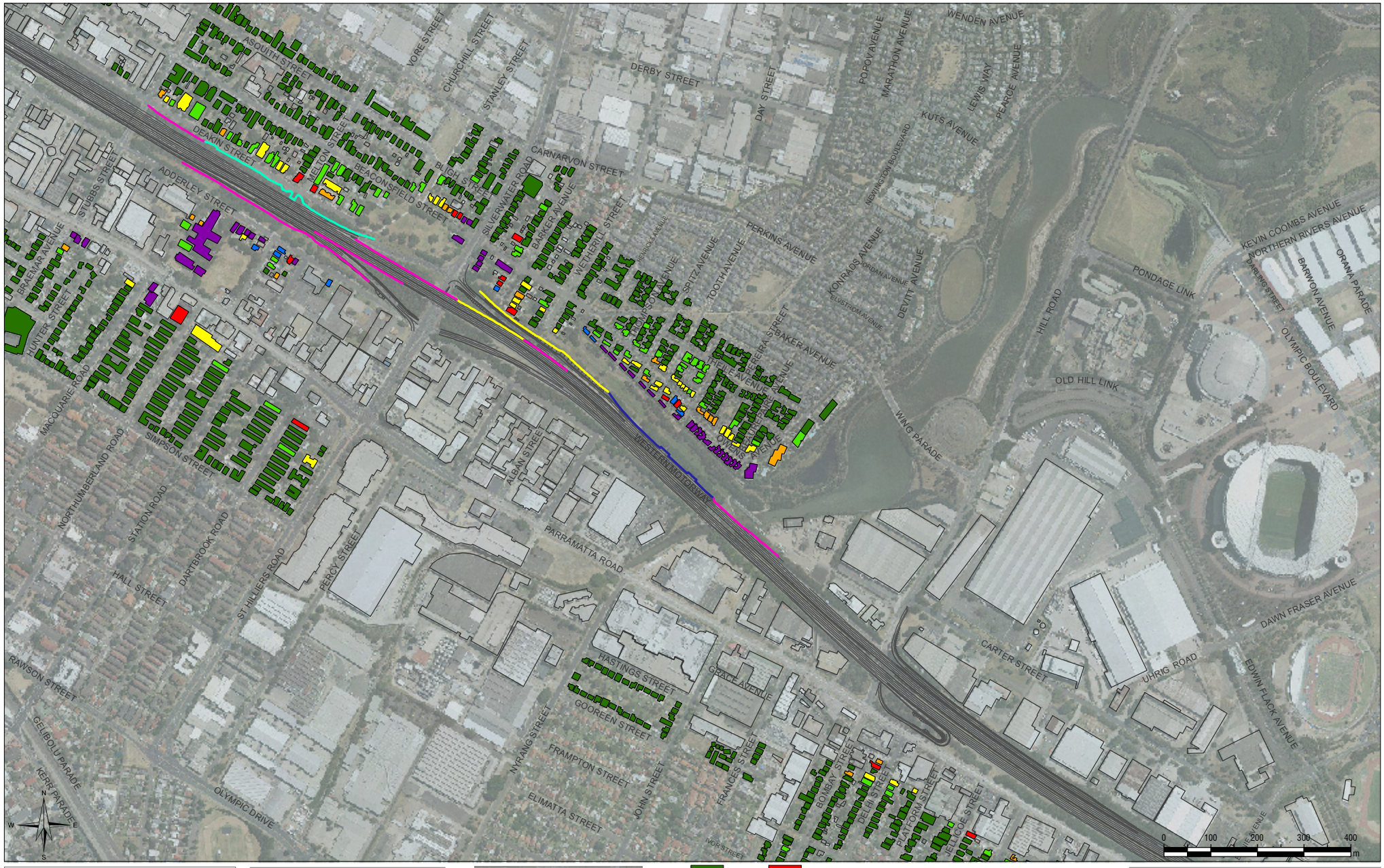

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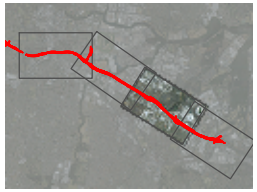

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Predicted Residential Noise Levels (dBA)

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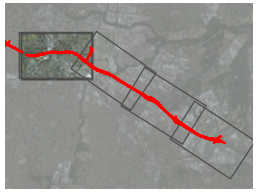

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Predicted Residential Noise Levels (dBA)

2027 Final Build, with Recommended Noise Barriers Night-time LAeq(9hour)

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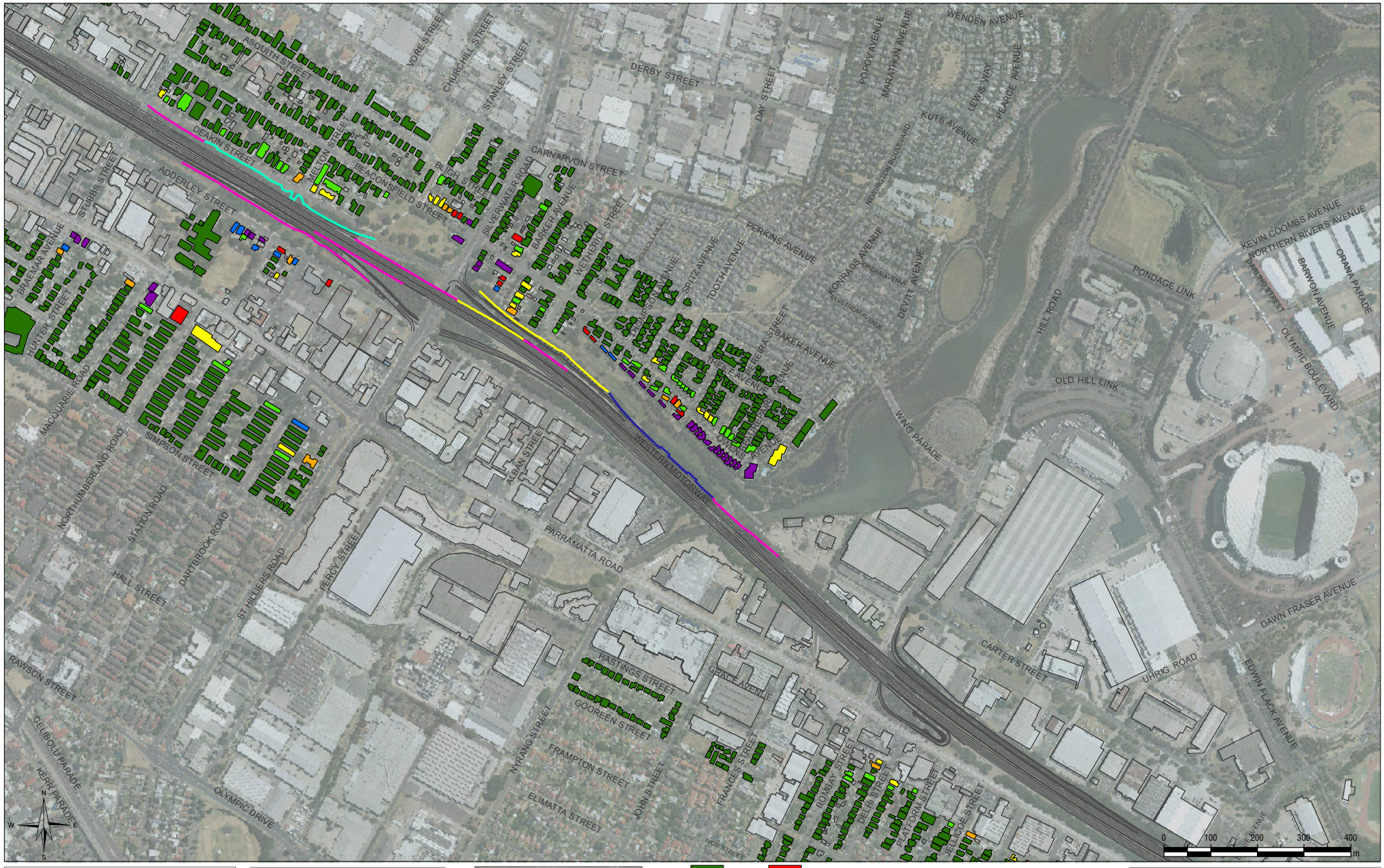

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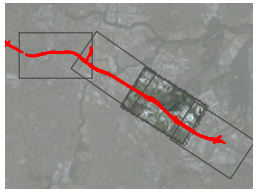

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