
APPENDIX D

Calculated Noise Levels at Residences

The following table shows the calculated noise levels at each residence under assessment. In the case where residences have more than one floor, the highest predicted noise level is recorded. Residence numbers refer to figures in Appendix C. Levels are calculated first for night time 2011 on the existing alignment. Then criteria are set and an allowance given where criteria are already exceeded. Noise levels are then calculated for 2021 night time with a low noise pavement but with no barriers in place. The next column indicates whether mitigation (either noise barriers or architectural treatments) is “reasonable and feasible” under guidelines from the RTA’s *Environmental Noise Management Manual*. Then predicted noise levels are outlined with the proposed barrier configuration outlined in Section 4 in place. Note that for some residences noise levels increase slightly with barriers in position. This occurs where there are barriers proposed on the opposite side and noise is reflected across the highway. The next column indicates if architectural treatments would be required. Finally the change in noise level from 2011 to 2021 (with noise barriers) is shown.

There may be minor changes in barrier heights and lengths as the noise mitigation is optimised as part of the detailed design process or following community consultation.

Design Noise 2021 $L_{Aeq,9hr}$ (dBA)									
NCA	No.	2011 $L_{Aeq,9hr}$ (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
1	1	48.5	50	N/A	47		47.5		-1
1	2	51	55	N/A	51		51.5		0.5
1	3	51	55	N/A	51		51.5		0.5
1	4	48	50	N/A	47.5		47.5		-0.5
1	5	46.5	50	N/A	45.5		46		-0.5
1	6	52.5	55	N/A	53.5		54		1.5
1	7	55	55	57	56		56.5		1.5
1	8	55.5	55	57.5	56		57		1.5
1	9	56	55	58	60	Y	61.5	Y	5.5
1	10	54.5	55	56.5	57	Y	57.5	Y	3
1	11	50	55	N/A	51		52.5		2.5
1	12	48.5	50	N/A	48.5		50		1.5
1	13	46.5	50	N/A	47.5		50		3.5
1	14	54.5	55	56.5	56.5		56.5		2
1	15	54	55	56	54.5		56		2
1	16	54	55	56	55.5		56		2
1	17	57.5	55	59.5	57.5		58.5		1
1	18	56	55	58	56.5		58		2
1	19	57.5	55	59.5	58		59.5		2
1	20	51.5	55	N/A	52.5		54.5		3
1	21	56	55	56.5	58.5	Y	58.5	Y	2.5
1	22	47	50	N/A	48.5		50		3
1	23	47.5	50	N/A	49.5		50		2.5
1	24	58	55	59.5	62	Y	62	Y	4
1	25	47.5	50	N/A	48.5		50		2.5
1	26	52.5	55	N/A	52		53		0.5
1	27	48.5	50	N/A	50.5	Y	50		1.5
1	28	48.5	50	N/A	51	Y	50		1.5
1	29	54.5	55	56.5	54		55		0.5
1	30	51.5	55	N/A	56		52.5		1
1	31	50	55	N/A	53.5		50		0
1	32	48.5	50	N/A	52.5	Y	49		0.5
1	33	53.5	55	55.5	58.5	Y	53		-0.5
1	34	54	55	56	57.5	Y	55.5		1.5
1	35	57	55	59	56		56.5		-0.5

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
1	36	59	55	59.5	58.5		60	Y	1
1	37	56.5	55	58.5	59.5	Y	61	Y	4.5
1	38	52.5	55	N/A	52.5		52.5		0
1	39	47	50	N/A	47.5		49		2
1	616	60.5	55	59.5	61.5	Y	62.5	Treatments already in place	2
1	617	61	55	59.5	61.5	Y	63	Treatments already in place	2
1	638	48.5	50	N/A	49		50		1.5
1	639	49.5	50	N/A	50		50.5		1
2	40	59.5	55	59.5	56		56		-3.5
2	41	56	55	58	53.5		53.5		-2.5
2	42	56	55	58	54		54		-2
2	43	60.5	55	59.5	57		57		-3.5
2	44	60.5	55	59.5	57		57		-3.5
2	45	52.5	55	N/A	50.5		50.5		-2
2	46	50.5	55	N/A	48.5		48.5		-2
2	47	51.5	55	N/A	49.5		49.5		-2
2	48	53.5	55	55.5	51.5		51.5		-2
2	49	52.5	55	N/A	50.5		50.5		-2
2	50	51.5	55	N/A	50		49.5		-2
2	51	52	55	N/A	50		49.5		-2.5
2	52	54.5	55	56.5	52.5		52		-2.5
2	53	57	55	59	54.5		54		-3
2	54	63.5	55	59.5	58		58		-5.5
2	55	61	55	59.5	57.5		57		-4
2	56	62	55	59.5	58		57.5		-4.5
2	57	62	55	59.5	58.5		58		-4
2	58	56	55	58	54		53.5		-2.5
2	59	53.5	55	55.5	52		51.5		-2
2	60	62	55	59.5	59.5		59.5		-2.5
2	61	51.5	55	N/A	50		49.5		-2
2	62	60.5	55	59.5	58		58		-2.5

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
2	63	61.5	55	59.5	59.5		59.5		-2
2	64	60.5	55	59.5	58.5		58.5		-2
2	65	58	55	59.5	56.5		56.5		-1.5
2	66	53.5	55	55.5	51		51		-2.5
2	67	50	55	N/A	48.5		48.5		-1.5
2	68	53	55	N/A	52		52		-1
2	69	52.5	55	N/A	51.5		51.5		-1
2	70	54.5	55	56.5	54		54		-0.5
2	71	49	50	N/A	47.5		47.5		-1.5
2	72	50	55	N/A	49		49		-1
2	645	54.5	55	56.5	54		54		-0.5
2	646	52.5	55	N/A	51.5		52		-0.5
3	73	62	55	59.5	58		58		-4
3	74	52	55	N/A	49		49		-3
3	75	49.5	50	N/A	47		47		-2.5
3	76	58.5	55	59.5	58		58		-0.5
3	77	49	50	N/A	47.5		47.5		-1.5
3	78	52	55	N/A	51.5		51.5		-0.5
3	79	57	55	59	56.5		56.5		-0.5
3	80	54	55	56	53		53		-1
3	81	52	55	N/A	51.5		51.5		-0.5
3	82	53	55	N/A	54.5		54.5		1.5
3	83	55.5	55	57.5	55.5		55.5		0
3	84	51	55	N/A	49.5		49		-2
3	85	56.5	55	58.5	62	Y	62	Y	6.5
3	86	59	55	59.5	58		58		-1
4	87	59.5	55	59.5	58		58		-1.5
4	88	56.5	55	58.5	53.5		53.5		-3
4	89	51	55	N/A	48.5		48.5		-2.5
4	90	53	55	N/A	50		50		-3
4	91	54	55	56	51.5		51.5		-2.5
4	92	55.5	55	57.5	53		53		-2.5
4	93	56	55	58	53.5		53.5		-2.5
4	94	56	55	58	53.5		53.5		-2.5

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
4	95	56.5	55	58.5	53.5		53.5		-3
4	96	58.5	55	59.5	55.5		55.5		-3
4	97	61	55	59.5	58		58		-3
4	98	63	55	59.5	60	Y	60	Y	-3
4	99	58.5	55	59.5	55		55		-3.5
4	100	56.5	55	58.5	54		54		-2.5
4	101	54	55	56	51.5		51.5		-2.5
4	102	53.5	55	55.5	51		51		-2.5
4	103	51.5	55	N/A	49		49		-2.5
4	104	52	55	N/A	49.5		49.5		-2.5
4	106	59.5	55	59.5	55.5		55.5		-4
4	107	60	55	59.5	56		56		-4
4	108	61.5	55	59.5	58		58		-3.5
4	109	56.5	55	58.5	54		54		-2.5
4	110	65.5	55	59.5	63	Y	63	Y	-2.5
4	111	58.5	55	59.5	56		56		-2.5
4	112	58	55	59.5	56		56		-2
4	113	53.5	55	55.5	52		52		-1.5
4	114	54	55	56	52		52		-2
4	115	53.5	55	55.5	51.5		51.5		-2
4	116	56.5	55	58.5	55		55		-1.5
4	117	52.5	55	N/A	50.5		50.5		-2
4	118	53	55	N/A	51.5		51.5		-1.5
4	119	56	55	58	54		54		-2
4	120	60	55	59.5	57.5		57.5		-2.5
4	121	63.5	55	59.5	60	Y	60	Y	-3.5
4	122	60.5	55	59.5	58		58		-2.5
4	123	60.5	55	59.5	58.5		58.5		-2
4	124	54.5	55	56.5	52.5		52.5		-2
4	125	61	55	59.5	59		59		-2
4	126	58	55	59.5	56		56		-2
4	127	56.5	55	58.5	54		54		-2.5
4	128	56.5	55	58.5	54		54		-2.5
4	129	54.5	55	56.5	52		52		-2.5
4	130	57	55	59	55		55		-2

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
4	131	56	55	58	54		54		-2
4	132	54.5	55	56.5	52.5		52.5		-2
4	133	54	55	56	52		52		-2
4	134	54.5	55	56.5	52		52		-2.5
4	135	54	55	56	51.5		51.5		-2.5
4	136	53	55	N/A	50.5		50.5		-2.5
4	137	52.5	55	N/A	50.5		50.5		-2
5	138	48.5	50	N/A	47.5		47		-1.5
5	139	51	55	N/A	50		49.5		-1.5
5	140	52	55	N/A	51		50.5		-1.5
5	141	51.5	55	N/A	50		49.5		-2
5	142	52	55	N/A	51		50.5		-1.5
5	143	51.5	55	N/A	50.5		50.5		-1
5	144	51.5	55	N/A	50.5		50.5		-1
5	145	51.5	55	N/A	50.5		50.5		-1
5	146	53.5	55	55.5	52.5		52.5		-1
5	147	55	55	57	53.5		53.5		-1.5
5	148	59.5	55	59.5	57		57		-2.5
5	149	61.5	55	59.5	59.5		59.5		-2
5	150	59.5	55	59.5	57		57		-2.5
5	151	54	55	56	52.5		52.5		-1.5
5	152	52	55	N/A	51.5		51		-1
5	153	52	55	N/A	51		51		-1
5	154	52.5	55	N/A	51.5		51.5		-1
5	155	53.5	55	55.5	52		52		-1.5
5	156	59.5	55	59.5	53.5		53.5		-6
5	157	58.5	55	59.5	53.5		53.5		-5
5	158	60	55	59.5	55.5		55.5		-4.5
5	159	61	55	59.5	58.5		58.5		-2.5
5	160	51.5	55	N/A	49		49		-2.5
5	161	48.5	50	N/A	46.5		46.5		-2
5	162	51.5	55	N/A	49		49		-2.5
5	163	54	55	56	51		50.5		-3.5
5	164	53.5	55	55.5	51		51		-2.5

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
5	165	53.5	55	55.5	50.5		50.5		-3
5	166	53	55	N/A	50		50		-3
5	167	52	55	N/A	50		49.5		-2.5
5	168	59.5	55	59.5	58		58		-1.5
5	169	59	55	59.5	58		58		-1
5	170	60	55	59.5	59.5		59.5		-0.5
5	171	59	55	59.5	58.5		58.5		-0.5
5	172	59.5	55	59.5	59		59		-0.5
5	173	59	55	59.5	59		59		0
5	174	58	55	59.5	58.5		58.5		0.5
5	175	58	55	59.5	58.5		58.5		0.5
5	176	57.5	55	59.5	58.5		58.5		1
5	177	57.5	55	59.5	59		59		1.5
5	178	57.5	55	59.5	60	Y	60	Y	2.5
5	179	57.5	55	59.5	58.5		58.5		1
5	180	60	55	59.5	61	Y	61	Y	1
5	181	57.5	55	59.5	58		58		0.5
5	182	56.5	55	58.5	56.5		56.5		0
5	183	54.5	55	56.5	55		55		0.5
5	184	56.5	55	58.5	55.5		55.5		-1
5	185	53	55	N/A	54.5		54.5		1.5
5	186	56	55	58	55		55		-1
5	187	55.5	55	57.5	55		55		-0.5
5	188	50.5	55	N/A	50		50		-0.5
5	189	55	55	57	53.5		53.5		-1.5
5	190	55.5	55	57.5	54		54		-1.5
5	191	49.5	50	N/A	50.5		50		0.5
5	192	49	50	N/A	49		49		0
5	193	51	55	N/A	52		52		1
5	194	53	55	N/A	55		55		2
5	195	64.5	55	59.5	61.5	Y	61.5	Y	-3
5	655	55	55	57	54		54		-1
5	656	55	55	57	54.5		54		-1
5	657	51	55	N/A	52.5		52.5		1.5
5	658	53	55	N/A	54		54		1

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
5	659	54	55	56	55		55		1
5	660	55	55	57	55.5		55.5		0.5
5	661	55.5	55	57.5	56		56		0.5
5	662	56.5	55	58.5	56.5		56.5		0
5	663	56	55	58	55.5		55.5		-0.5
5	664	57	55	59	56.5		56.5		-0.5
5	665	56	55	58	55.5		55.5		-0.5
5	666	56	55	58	55		55		-1
5	667	56.5	55	58.5	56		56		-0.5
5	668	56.5	55	58.5	55.5		55.5		-1
5	669	56	55	58	55		55		-1
5	670	55	55	57	54		54		-1
5	671	51	55	N/A	49		49		-2
5	672	52.5	55	N/A	51.5		51		-1.5
5	673	51	55	N/A	49.5		49		-2
5	674	49	50	N/A	47.5		47		-2
5	675	50	55	N/A	48.5		48.5		-1.5
5	676	58	55	59.5	55.5		55.5		-2.5
5	677	58	55	59.5	56		56		-2
6	196	63	55	59.5	62.5	Y	58		-5
6	197	64	55	59.5	64	Y	57.5		-6.5
6	198	61	55	59.5	60.5	Y	56		-5
6	199	59.5	55	59.5	58.5		55		-4.5
6	200	59	55	59.5	58		55		-4
6	201	58	55	59.5	56.5		54.5		-3.5
6	202	57.5	55	59.5	56		54		-3.5
6	203	57	55	59	55.5		53.5		-3.5
6	204	56	55	58	54.5		53		-3
6	205	55.5	55	57.5	54.5		53		-2.5
6	206	55	55	57	54		52.5		-2.5
6	207	56	55	58	54.5		53.5		-2.5
6	208	56.5	55	58.5	54.5		54.5		-2
6	209	58	55	59.5	56		56		-2
6	210	53	55	N/A	51.5		51		-2

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
6	211	50.5	55	N/A	49.5		49		-1.5
6	212	50.5	55	N/A	49.5		49.5		-1
6	213	55	55	57	54		52.5		-2.5
6	214	57	55	59	56.5		54		-3
6	215	60.5	55	59.5	59.5		55.5		-5
6	216	61	55	59.5	60.5	Y	55.5		-5.5
6	217	61.5	55	59.5	61	Y	57		-4.5
6	218	61	55	59.5	60.5	Y	56		-5
6	219	61	55	59.5	60.5	Y	55.5		-5.5
6	220	61.5	55	59.5	61.5	Y	55.5		-6
6	221	62.5	55	59.5	62.5	Y	58		-4.5
6	222	63	55	59.5	62.5	Y	60	Y	-3
6	223	64	55	59.5	63.5	Y	62.5	Y	-1.5
6	224	63.5	55	59.5	63	Y	63	Y	-0.5
6	225	64.5	55	59.5	64	Y	64.5	Y	0
6	227	49	55	N/A	48		48		-1
6	228	49.5	55	N/A	48.5		48		-1.5
6	229	48	55	N/A	46.5		46.5		-1.5
6	683	61.5	55	59.5	61.5	Y	55.5		-6
6	684	61	55	59.5	61	Y	55		-6
6	685	61.5	55	59.5	61.5	Y	55.5		-6
6	686	61	55	59.5	61	Y	55.5		-5.5
6	687	56.5	55	58.5	55.5		53.5		-3
6	688	56.5	55	58.5	56		53.5		-3
6	689	58	55	59.5	57		54		-4
6	690	58.5	55	59.5	57.5		54		-4.5
6	691	58	55	59.5	57		54		-4
6	692	57.5	55	59.5	57.5		54.5		-3
6	693	56.5	55	58.5	58		54.5		-2
6	694	55	55	57	58	Y	54.5		-0.5
6	695	55	55	57	58	Y	55		0
6	696	55.5	55	57.5	58	Y	55.5		0
6	697	55.5	55	57.5	58	Y	56		0.5
6	698	56.5	55	58.5	58		56.5		0
6	699	59	55	59.5	57.5		57		-2

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
6	700	59.5	55	59.5	57.5		57.5		-2
6	701	62	55	59.5	58.5		59.5		-2.5
6	702	61	55	59.5	58		57.5		-3.5
6	703	62.5	55	59.5	60.5	Y	59.5		-3
6	704	59	55	59.5	56.5		57.5		-1.5
6	705	58.5	55	59.5	57		57		-1.5
6	706	57	55	59	55.5		55.5		-1.5
7	413	45	50	N/A	44		44		-1
7	414	52	55	N/A	49.5		49.5		-2.5
7	415	52.5	55	N/A	50.5		50.5		-2
7	416	58	55	59.5	54		54		-4
7	417	56	55	58	52.5		52.5		-3.5
7	418	50.5	55	N/A	49		49		-1.5
7	419	51.5	55	N/A	50		50		-1.5
7	420	53.5	55	55.5	52		52		-1.5
7	421	50.5	55	N/A	49		49		-1.5
7	422	51	55	N/A	49.5		49.5		-1.5
7	423	52.5	55	N/A	51		51		-1.5
8	424	N/A	50	N/A	44		46		N/A
8	425	N/A	50	N/A	53.5	Y	54	Y	N/A
8	426	N/A	50	N/A	47.5		46		N/A
8	427	N/A	50	N/A	45.5		44.5		N/A
8	428	N/A	50	N/A	43.5		43.5		N/A
8	429	N/A	50	N/A	44.5		44.5		N/A
8	430	N/A	50	N/A	53	Y	50		N/A
8	431	N/A	50	N/A	52	Y	49.5		N/A
8	432	N/A	50	N/A	51	Y	49		N/A
8	433	N/A	50	N/A	47		46.5		N/A
8	434	N/A	50	N/A	43		43		N/A
8	435	N/A	50	N/A	43.5		43.5		N/A
8	436	N/A	50	N/A	49.5		47.5		N/A
8	437	N/A	50	N/A	47.5		46		N/A
8	438	N/A	50	N/A	48		46.5		N/A
8	439	N/A	50	N/A	50.5	Y	48		N/A

Design Noise 2021 $L_{Aeq,9hr}$ (dBA)									
NCA	No.	2011 $L_{Aeq,9hr}$ (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
8	440	N/A	50	N/A	52	Y	49.5		N/A
8	441	N/A	50	N/A	56	Y	54.5	Y	N/A
8	442	46.5	50	N/A	56	Y	55.5	Y	9
8	443	N/A	50	N/A	51	Y	48.5		N/A
9	444	N/A	50	N/A	54	Y	54	Y	N/A
9	445	N/A	50	N/A	52.5	Y	53.5	Y	N/A
9	446	N/A	50	N/A	54	Y	54	Y	N/A
9	447	N/A	50	N/A	55.5	Y	55.5	Y	N/A
10	450	54	55	56	55.5		55.5		1.5
10	451	53.5	55	55.5	55		55		1.5
10	452	53.5	55	55.5	55		55		1.5
10	453	54	55	56	55.5		55.5		1.5
10	771	52	55	N/A	54		54		2
10	772	50	55	N/A	51.5		51.5		1.5
10	773	49	50	N/A	50		50		1
10	774	48.5	50	N/A	49		49		0.5
10	775	47.5	50	N/A	48		48		0.5
10	776	54	55	56	55.5		55.5		1.5
11	454	N/A	50	N/A	55.5	Y	55.5	Y	N/A
11	455	N/A	50	N/A	42.5		42.5		N/A
11	457	N/A	50	N/A	50.5	Y	48		N/A
11	458	N/A	50	N/A	47.5		45.5		N/A
11	459	N/A	50	N/A	47		44		N/A
11	460	N/A	50	N/A	52	Y	48		N/A
11	461	N/A	50	N/A	46		44		N/A
11	462	N/A	50	N/A	47.5		44.5		N/A
11	463	N/A	50	N/A	49		44.5		N/A
11	464	N/A	50	N/A	45.5		42		N/A
11	465	N/A	50	N/A	46.5		44		N/A
11	466	N/A	50	N/A	46		44		N/A
11	467	N/A	50	N/A	45.5		44		N/A
11	468	N/A	50	N/A	51.5	Y	49		N/A
11	469	N/A	50	N/A	50.5	Y	49		N/A
11	470	N/A	50	N/A	54	Y	52.5	Y	N/A

Design Noise 2021 $L_{Aeq,9hr}$ (dBA)									
NCA	No.	2011 $L_{Aeq,9hr}$ (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
11	471	N/A	50	N/A	47.5		44.5		N/A
11	472	N/A	50	N/A	55.5	Y	50		N/A
11	473	N/A	50	N/A	52	Y	47.5		N/A
11	474	N/A	50	N/A	51	Y	46.5		N/A
11	475	N/A	50	N/A	52.5	Y	48.5		N/A
11	476	N/A	50	N/A	48.5		45		N/A
11	477	N/A	50	N/A	51	Y	47.5		N/A
11	478	N/A	50	N/A	51.5	Y	48		N/A
11	479	N/A	50	N/A	51.5	Y	49		N/A
11	480	N/A	50	N/A	52	Y	50		N/A
11	481	N/A	50	N/A	45.5		46		N/A
11	482	N/A	50	N/A	54	Y	53	Y	N/A
11	722	N/A	50	N/A	41.5		41.5		N/A
12	483	N/A	50	N/A	47		48		N/A
12	484	N/A	50	N/A	47.5		48.5		N/A
12	485	N/A	50	N/A	49.5		50		N/A
12	486	N/A	50	N/A	46.5		47.5		N/A
12	487	N/A	50	N/A	44		45		N/A
12	488	N/A	50	N/A	47		48.5		N/A
12	489	N/A	50	N/A	47.5		49		N/A
12	490	N/A	50	N/A	48.5		50		N/A
12	491	N/A	50	N/A	49		50		N/A
12	492	44.5	50	N/A	47.5		49		4.5
12	493	45	50	N/A	47.5		48.5		3.5
12	494	45	50	N/A	45		46		1
12	495	45	50	N/A	52	Y	53.5	Y	8.5
12	496	46	50	N/A	53.5	Y	54.5	Y	8.5
12	497	45.5	50	N/A	45.5		46		0.5
12	498	44	50	N/A	51.5	Y	53	Y	9
12	499	45	50	N/A	43		43.5		-1.5
12	500	45.5	50	N/A	45		45.5		0
12	501	45.5	50	N/A	43		43		-2.5
12	502	45.5	50	N/A	44		44.5		-1
12	503	46	50	N/A	46.5		46.5		0.5

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
12	504	46.5	50	N/A	50		50		3.5
12	505	45.5	50	N/A	45.5		46		0.5
12	506	45.5	50	N/A	43.5		44		-1.5
12	716	45	50	N/A	49.5		50		5
12	717	45.5	50	N/A	45.5		46		0.5
12	718	46	50	N/A	46		46.5		0.5
12	719	N/A	50	N/A	45		45.5		N/A
12	720	N/A	50	N/A	44		44		N/A
12	721	N/A	50	N/A	45		45.5		N/A
13	507	49	50	N/A	50		50		1
13	508	49	50	N/A	48		45		-4
13	509	48.5	50	N/A	48.5		48.5		0
13	713	51	50	51.5	53.5	Y	53.5	Y	2.5
13	714	48.5	50	N/A	52.5	Y	53	Y	4.5
13	715	46	50	N/A	50.5	Y	50.5	Y	4.5
14	510	56.5	55	58.5	53.5		53.5		-3
14	511	57	55	59	54		54		-3
14	512	57.5	55	59.5	54		54		-3.5
14	513	62	55	59.5	58.5		58.5		-3.5
14	514	61.5	55	59.5	58		58		-3.5
14	515	56	55	58	52		52		-4
14	516	59.5	55	59.5	56.5		56.5		-3
14	517	58	55	59.5	54.5		54.5		-3.5
14	518	57.5	55	59.5	53		53		-4.5
14	519	59	55	59.5	52.5		52.5		-6.5
14	520	59	55	59.5	52.5		52.5		-6.5
14	521	59	55	59.5	53.5		53.5		-5.5
14	522	58	55	59.5	53.5		53.5		-4.5
14	523	57.5	55	59.5	54		54		-3.5
14	524	57	55	59	53.5		53.5		-3.5
14	525	57	55	59	53.5		53.5		-3.5
14	526	57.5	55	59.5	51.5		51.5		-6
14	527	57.5	55	59.5	51.5		51.5		-6
14	528	57	55	59	52.5		52.5		-4.5

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
14	529	59	55	59.5	54.5		54.5		-4.5
14	530	57.5	55	59.5	53.5		53.5		-4
14	531	63	55	59.5	58		58		-5
14	532	60.5	55	59.5	55.5		55.5		-5
14	533	56	55	58	52.5		52.5		-3.5
15	230	54.5	55	56.5	53		53		-1.5
15	231	53.5	55	55.5	52		52		-1.5
15	232	54	55	56	52.5		52.5		-1.5
15	233	60	55	59.5	57.5		56		-4
15	234	64.5	55	59.5	60.5	Y	59.5		-5
15	235	69.5	55	59.5	65	Y	65	Y	-4.5
15	236	63	55	59.5	61.5	Y	56		-7
15	237	62.5	55	59.5	61.5	Y	62	Y	-0.5
15	238	61	55	59.5	62.5	Y	63.5	Y	2.5
15	239	60.5	55	59.5	62.5	Y	62.5	Y	2
15	240	63	55	59.5	65	Y	65.5	Y	2.5
15	241	64.5	55	59.5	63	Y	59		-5.5
15	242	62	55	59.5	60.5	Y	57.5		-4.5
15	243	60	55	59.5	58		55.5		-4.5
15	244	58.5	55	59.5	56.5		54.5		-4
15	245	57	55	59	55.5		54		-3
15	246	57	55	59	55		54		-3
15	247	56	55	58	54.5		53		-3
15	248	56	55	58	54.5		53.5		-2.5
15	249	55	55	57	54		53.5		-1.5
15	250	55.5	55	57.5	54		53.5		-2
15	251	55.5	55	57.5	54.5		54		-1.5
15	252	56	55	58	55		54		-2
15	253	56.5	55	58.5	56		55		-1.5
15	254	58.5	55	59.5	57		57		-1.5
15	255	57	55	59	56		56		-1
15	256	56.5	55	58.5	55.5		55		-1.5
15	257	56.5	55	58.5	55		54.5		-2
15	258	56	55	58	54.5		54		-2

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
15	259	55	55	57	53.5		53		-2
15	678	55	55	57	53		53.5		-1.5
15	679	55	55	57	53		53		-2
15	680	54.5	55	56.5	52.5		52.5		-2
15	681	54	55	56	52		52.5		-1.5
15	682	54.5	55	56.5	52.5		52.5		-2
15	707	58.5	55	59.5	56.5		54		-4.5
15	708	57.5	55	59.5	55.5		54		-3.5
15	709	57	55	59	55.5		53.5		-3.5
15	710	56.5	55	58.5	54.5		53.5		-3
15	711	56	55	58	54.5		53.5		-2.5
15	712	56	55	58	54		53		-3
16	260	57.5	55	59.5	56.5		56.5		-1
16	261	57	55	59	56.5		56.5		-0.5
16	262	56.5	55	58.5	56		56		-0.5
16	263	55	55	57	54.5		54.5		-0.5
16	264	54.5	55	56.5	54		54		-0.5
16	265	54	55	56	53.5		53.5		-0.5
16	266	54	55	56	53		53		-1
16	267	60	55	59.5	60.5	Y	60.5	Y	0.5
16	268	58.5	55	59.5	59		59		0.5
16	269	58	55	59.5	58		58		0
16	270	57.5	55	59.5	57		57		-0.5
16	271	56	55	58	55.5		55.5		-0.5
16	272	55.5	55	57.5	55		55		-0.5
16	273	55.5	55	57.5	55		55		-0.5
16	274	55	55	57	54.5		54.5		-0.5
16	650	55.5	55	57.5	55.5		55.5		0
16	651	55.5	55	57.5	55		55		-0.5
16	652	57.5	55	59.5	57		57		-0.5
16	653	55	55	57	54.5		54.5		-0.5
16	654	59.5	55	59.5	58.5		58.5		-1
17	275	61.5	55	59.5	56.5		56.5		-5
17	276	64	55	59.5	58.5		58.5		-5.5

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
17	277	52.5	55	N/A	50		50		-2.5
17	647	58	55	59.5	56.5		56.5		-1.5
18	278	53	55	N/A	50.5		49.5		-3.5
18	279	52.5	55	N/A	50.5		49.5		-3
18	280	52	55	N/A	49.5		49		-3
18	281	51.5	55	N/A	49.5		49		-2.5
18	282	51.5	55	N/A	49		49		-2.5
18	283	63.5	55	59.5	61	Y	61	Y	-2.5
18	284	61.5	55	59.5	59		59		-2.5
18	285	60	55	59.5	57.5		57.5		-2.5
18	286	57.5	55	59.5	54.5		54.5		-3
18	287	55.5	55	56	53		53		-2.5
18	288	53.5	55	55.5	51		51		-2.5
18	289	52	55	N/A	50		50		-2
18	648	52.5	55	N/A	50.5		50.5		-2
19	298	53.5	55	55.5	51		51		-2.5
19	299	53.5	55	55.5	51		51		-2.5
19	300	53.5	55	55.5	51		51		-2.5
19	301	56	55	58	52.5		52.5		-3.5
19	302	55.5	55	57.5	52		52		-3.5
19	303	55	55	57	51.5		51.5		-3.5
19	304	54.5	55	56.5	51.5		51.5		-3
19	305	54.5	55	56.5	51.5		51.5		-3
19	306	54	55	56	51.5		51.5		-2.5
20	290	61	55	59.5	58.5		58.5		-2.5
20	291	62	55	59.5	59		59		-3
20	292	61.5	55	59.5	60.5	Y	60.5	Y	-1
20	293	61	55	59.5	59		59		-2
20	294	60	55	59.5	58.5		58		-2
20	295	59	55	59.5	57		57		-2
20	296	55.5	55	57.5	54		54		-1.5
20	297	55.5	55	57.5	53.5		53.5		-2
20	307	57	55	59	57		57		0
20	308	57.5	55	59.5	57		57		-0.5

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
20	309	58	55	59.5	57		57		-1
20	310	59.5	55	59.5	58		58		-1.5
20	311	58	55	59.5	56.5		56.5		-1.5
20	312	57.5	55	59.5	56.5		57		-0.5
20	313	56.5	55	58.5	56.5		56.5		0
20	314	55	55	57	56.5		56.5		1.5
20	315	58	55	59.5	55.5		55.5		-2.5
20	316	56.5	55	58.5	54		54		-2.5
20	317	53.5	55	55.5	51.5		51.5		-2
20	318	54.5	55	56.5	51		51		-3.5
20	319	58	55	59.5	54.5		54.5		-3.5
20	320	61.5	55	59.5	60.5	Y	60.5	Y	-1
20	321	60.5	55	59.5	59		59		-1.5
20	322	61	55	59.5	59.5		59.5		-1.5
20	323	60.5	55	59.5	59.5		59.5		-1
20	324	61	55	59.5	60	Y	60	Y	-1
20	325	61	55	59.5	60	Y	60	Y	-1
20	326	61	55	59.5	60.5	Y	60.5	Y	-0.5
20	327	58	55	59.5	56.5		56.5		-1.5
20	328	54.5	55	56.5	54.5		54.5		0
20	329	54.5	55	56.5	54.5		54.5		0
20	330	54.5	55	56.5	54		54		-0.5
20	640	55	55	57	54		54		-1
20	641	51.5	55	N/A	52.5		52.5		1
20	642	51.5	55	N/A	52		52		0.5
20	643	50.5	55	N/A	51.5		51.5		1
20	644	49	50	N/A	49.5		49.5		0.5
21	331	58.5	55	59.5	59		53		-5.5
21	332	62.5	55	59.5	64	Y	61.5	Y	-1
21	333	61.5	55	59.5	61	Y	60.5	Treatments already in place	-1
21	334	58	55	59.5	55		55.5		-2.5
21	335	63.5	55	59.5	59		57.5		-6
21	336	65.5	55	59.5	63.5	Y	61.5	Y	-4

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
21	337	64	55	59.5	62.5	Y	61	Y	-3
21	338	66.5	55	59.5	63	Y	59		-7.5
21	339	67	55	59.5	63	Y	58.5		-8.5
21	340	61	55	59.5	53		52		-9
21	341	60.5	55	59.5	53.5		52.5		-8
21	342	60	55	59.5	55		53.5		-6.5
21	343	59.5	55	59.5	55.5		53.5		-6
21	344	58	55	59.5	55		53		-5
21	345	57.5	55	59.5	55		53		-4.5
21	346	57	55	59	55.5		52.5		-4.5
21	347	55.5	55	57.5	54.5		51.5		-4
21	348	55	55	57	54.5		51		-4
21	349	54.5	55	56.5	54.5		51		-3.5
21	350	55	55	57	54.5		51		-4
21	351	57	55	59	56		53		-4
21	352	57.5	55	59.5	56.5		53		-4.5
21	353	61	55	59.5	60	Y	56		-5
21	354	56	55	58	54		53.5		-2.5
21	355	55	55	57	53.5		52		-3
21	356	57.5	55	59.5	53.5		52		-5.5
21	357	62	55	59.5	56.5		54		-8
21	358	59.5	55	59.5	56.5		53.5		-6
21	359	59.5	55	59.5	57		53.5		-6
21	360	57.5	55	59.5	56.5		53		-4.5
21	361	57.5	55	59.5	56.5		53		-4.5
21	362	61	55	59.5	60.5	Y	57		-4
21	363	56.5	55	58.5	56.5		53		-3.5
21	364	54.5	55	56.5	54.5		52		-2.5
21	365	56.5	55	58.5	58.5		56		-0.5
21	366	55.5	55	57.5	58.5	Y	56.5		1
21	367	55	55	57	58	Y	56		1
21	368	54	55	56	56.5	Y	55		1
21	369	53.5	55	55.5	55.5		54		0.5
21	370	57	55	59	60	Y	58.5		1.5
21	371	57	55	59	59		56.5		-0.5

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
21	372	55.5	55	57.5	55		53		-2.5
21	373	59	55	59.5	59		56		-3
21	374	54	55	56	54.5		52		-2
21	375	58.5	55	59.5	57.5		54.5		-4
21	376	59.5	55	59.5	57		54		-5.5
21	377	58	55	59.5	54		52.5		-5.5
21	378	60	55	59.5	56		54		-6
21	379	60	55	59.5	57.5		54.5		-5.5
21	380	59	55	59.5	54.5		53		-6
21	381	60	55	59.5	56		54		-6
21	382	57.5	55	59.5	53		52		-5.5
21	383	58.5	55	59.5	54		53		-5.5
21	384	58.5	55	59.5	54		53		-5.5
21	385	61.5	55	59.5	58.5		55.5		-6
21	386	59.5	55	59.5	56		54		-5.5
21	387	60.5	55	59.5	59		56		-4.5
21	388	61	55	59.5	59		56		-5
21	389	59.5	55	59.5	59		56.5		-3
21	390	56	55	58	57		55.5		-0.5
21	391	50.5	55	N/A	52		51		0.5
21	392	53	55	N/A	54.5		53.5		0.5
21	393	56.5	55	58.5	57		56		-0.5
21	394	52.5	55	N/A	53		53		0.5
21	395	55	55	57	56		55.5		0.5
21	396	56	55	58	56.5		56		0
21	397	56	55	58	56		56		0
21	398	53.5	55	55.5	54		54		0.5
21	399	60	55	59.5	60	Y	59.5		-0.5
21	400	60	55	59.5	59.5		59.5		-0.5
21	401	59	55	59.5	58.5		58.5		-0.5
21	402	59	55	59.5	57		57		-2
21	403	59.5	55	59.5	57.5		57.5		-2
21	404	58.5	55	59.5	54.5		54.5		-4
21	405	56.5	55	58.5	53		53		-3.5
21	406	55	55	57	52.5		52.5		-2.5

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
21	407	53.5	55	55.5	51		51		-2.5
21	408	53.5	55	55.5	52		52		-1.5
21	409	53	55	N/A	52		52		-1
21	410	52	55	N/A	51.5		51.5		-0.5
21	411	51.5	55	N/A	51		51		-0.5
21	412	51	55	N/A	50.5		50.5		-0.5
21	600	57	55	59	58.5		53.5		-3.5
21	601	58.5	55	59.5	61	Y	55		-3.5
21	602	59	55	59.5	61	Y	54.5		-4.5
21	603	59	55	59.5	61	Y	54		-5
21	604	59	55	59.5	61	Y	53.5		-5.5
21	605	59	55	59.5	60.5	Y	53.5		-5.5
21	606	59.5	55	59.5	61	Y	54		-5.5
21	607	59	55	59.5	60.5	Y	53.5		-5.5
21	608	57	55	59	58.5		51.5		-5.5
21	609	60.5	55	59.5	62	Y	54		-6.5
21	610	60.5	55	59.5	62	Y	54.5		-6
21	611	60	55	59.5	60.5	Y	55.5		-4.5
21	612	60.5	55	59.5	61	Y	56		-4.5
21	613	58.5	55	59.5	58.5		54.5		-4
21	614	57	55	59	56.5		53		-4
21	618	59.5	55	59.5	60	Y	57		-2.5
21	619	60.5	55	59.5	61.5	Y	59		-1.5
21	620	59.5	55	59.5	59.5		57.5		-2
21	621	59	55	59.5	58.5		57		-2
21	622	59.5	55	59.5	59		58		-1.5
21	623	59.5	55	59.5	59		59.5		0
21	624	61.5	55	59.5	59		59.5		-2
21	625	57.5	55	59.5	56		56		-1.5
21	626	54	55	56	50.5		51		-3
21	627	54	55	56	50		50		-4
21	628	54.5	55	56.5	50		50		-4.5
21	629	54	55	56	49		49.5		-4.5
21	630	53	55	N/A	48.5		48.5		-4.5
21	631	52.5	55	N/A	48		48		-4.5

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
21	632	52	55	N/A	47.5		48		-4
21	633	60	55	59.5	59.5		56.5		-3.5
21	634	56.5	55	58.5	57		55		-1.5
21	635	65	55	59.5	62.5	Y	60.5	Y	-4.5
21	636	60.5	55	59.5	54.5		53		-7.5
21	637	61	55	59.5	54		53		-8
22	534	62	55	59.5	54.5		54		-8
22	535	58	55	59.5	52.5		52.5		-5.5
22	536	55.5	55	57.5	50.5		50.5		-5
22	537	60.5	55	59.5	52.5		52.5		-8
22	538	56	55	58	49		49		-7
22	539	62.5	55	59.5	53.5		53.5		-9
22	540	60	55	59.5	51		51		-9
22	541	56	55	58	47		47		-9
22	542	63	55	59.5	53.5		53.5		-9.5
22	543	61	55	59.5	52.5		52.5		-8.5
22	544	61.5	55	59.5	53.5		53.5		-8
22	545	60.5	55	59.5	56		56		-4.5
22	546	58	55	59.5	56.5		56.5		-1.5
22	547	59.5	55	59.5	54.5		54.5		-5
22	764	61	55	59.5	51.5		51.5		-9.5
22	765	60	55	59.5	50.5		50.5		-9.5
22	766	55.5	55	57.5	46.5		46.5		-9
22	767	62.5	55	59.5	53		53		-9.5
22	768	58.5	55	59.5	52		52		-6.5
22	769	64.5	55	59.5	56		56		-8.5
22	770	61.5	55	59.5	54		54		-7.5
23	548	57.5	55	59.5	51		51		-6.5
23	549	67	55	59.5	59.5		59.5		-7.5
23	550	66.5	55	59.5	57.5		57.5		-9
23	551	67.5	55	59.5	60	Y	60	To be determined within 12 months of project opening	-7.5
23	552	62.5	55	59.5	52.5		53		-9.5

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
23	553	58	55	59.5	54		54		-4
23	554	59.5	55	59.5	55.5		55.5		-4
23	555	58.5	55	59.5	54.5		54.5		-4
23	556	59	55	59.5	55.5		55.5		-3.5
23	557	57.5	55	59.5	54		54		-3.5
23	558	57.5	55	59.5	53		53		-4.5
23	559	54.5	55	56.5	49		49		-5.5
23	560	64.5	55	59.5	62	Y	62	To be determined within 12 months of project opening	-2.5
23	561	65	55	59.5	62	Y	62	To be determined within 12 months of project opening	-3
23	562	61.5	55	59.5	58.5		58.5		-3
23	563	60	55	59.5	57		57		-3
23	564	62	55	59.5	57.5		57.5		-4.5
23	565	59.5	55	59.5	56.5		56.5		-3
23	566	65	55	59.5	63.5	Y	63.5	To be determined within 12 months of project opening	-1.5
23	567	59	55	59.5	50.5		50.5		-8.5
23	568	58	55	59.5	50		50		-8
23	569	62.5	55	59.5	56		56		-6.5
23	723	65.5	55	59.5	58.5		58.5		-7
23	724	66	55	59.5	58.5		58.5		-7.5
23	725	63	55	59.5	56.5		56.5		-6.5
23	726	61.5	55	59.5	54.5		54.5		-7
23	727	61.5	55	59.5	54.5		54.5		-7
23	728	61	55	59.5	54.5		54.5		-6.5
23	729	60	55	59.5	53		53		-7
23	730	60	55	59.5	53		53		-7
23	731	59	55	59.5	52		52		-7
23	732	58.5	55	59.5	51.5		51.5		-7

Design Noise 2021 L _{Aeq,9hr} (dBA)									
NCA	No.	2011 L _{Aeq,9hr} (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
23	733	58	55	59.5	51.5		51.5		-6.5
23	734	58	55	59.5	51		51		-7
23	735	57	55	59	50.5		50.5		-6.5
23	736	64.5	55	59.5	59.5		59.5		-5
23	737	63	55	59.5	52.5		52.5		-10.5
23	738	63	55	59.5	53		53		-10
23	739	63.5	55	59.5	54		54		-9.5
23	740	66	55	59.5	59		59		-7
23	741	58	55	59.5	52		52		-6
23	742	58	55	59.5	53.5		53.5		-4.5
23	743	58	55	59.5	53.5		53.5		-4.5
23	744	57.5	55	59.5	53		53		-4.5
23	745	58.5	55	59.5	54.5		54.5		-4
23	746	58.5	55	59.5	54.5		54.5		-4
23	747	58	55	59.5	54.5		54.5		-3.5
23	748	58	55	59.5	54.5		54.5		-3.5
23	749	58.5	55	59.5	55		55		-3.5
23	750	58	55	59.5	54.5		54.5		-3.5
23	751	58	55	59.5	54.5		54.5		-3.5
23	752	58	55	59.5	53		53		-5
23	754	62.5	55	59.5	59.5		59.5		-3
23	755	61	55	59.5	58		58		-3
23	756	61.5	55	59.5	58.5		58.5		-3
23	757	65	55	59.5	62	Y	62	To be determined within 12 months of project opening	-3
23	758	62.5	55	59.5	60	Y	60	To be determined within 12 months of project opening	-2.5
23	759	59.5	55	59.5	56		56.5		-3
23	760	60.5	55	59.5	54		54		-6.5
23	761	60	55	59.5	53.5		53.5		-6.5
23	762	60.5	55	59.5	53.5		53.5		-7

Design Noise 2021 $L_{Aeq,9hr}$ (dBA)									
NCA	No.	2011 $L_{Aeq,9hr}$ (dBA)	ECRTN Base Criterion (dBA)	Allowance Where base criterion already exceeded (dBA)	Without Barriers	Mitigation Required Under ENMM?	With Proposed Barriers in Place	Architectural Treatment Required?	Change from 2011 to 2021 with Proposed Barriers (dBA)
23	763	62	55	59.5	54.5		54.5		-7.5
23	777	63	55	59.5	59		59		-4
23	778	60.5	55	59.5	56.5		56.5		-4
23	779	59	55	59.5	54.5		54.5		-4.5