

Appendix G.

Noise Modeling Calculations

Central Los Angeles New Learning Center #1 a.m. Peak Hour Noise Estimates

Existing Conditions a.m. Peak (2002)

ROAD SEGMENT	from: to:		VEHICLE TYPE %			VEHICLE SPEED			NOISE LEVEL (dBA)			CALC. NOISE LEV. (15 m from rdwy ctr)	Recept. Dist. fr. Rdwy Ctr (m)			
	from:	to:	Auto %	MT %	HT %	Auto k/h	MT k/h	HT k/h	Auto	MT	HT					
														%	%	%
Mariposa Avenue	Wilshire Boulevard	West 7th Street	95	574.75	3	18.15	1	6.05	25	40	25	40	57.0	54.0	56.5	10
West 7th Street	Irlo Street	Mariposa Avenue	95	455.05	3	14.37	1	4.79	25	40	25	40	56.0	53.0	55.5	10
Wilshire Boulevard	Catalina Street	Vermont Avenue	95	2713.2	3	85.68	1	28.56	25	40	25	40	63.7	60.8	63.2	10
Mariposa Avenue	West 7th Street	West 8th Street	95	296.4	3	9.36	1	3.12	25	40	25	40	54.1	51.2	53.6	10
Catalina Street	West 7th Street	West 8th Street	95	615.6	3	19.44	1	6.48	25	40	25	40	57.3	54.3	56.8	10

Existing Conditions Plus Related Projects a.m. Peak (2007)

ROAD SEGMENT	from: to:		VEHICLE TYPE %			VEHICLE SPEED			NOISE LEVEL (dBA)			CALC. NOISE LEV. (15 m from rdwy ctr)	Recept. Dist. fr. Rdwy Ctr (m)			
	from:	to:	Auto %	MT %	HT %	Auto k/h	MT k/h	HT k/h	Auto	MT	HT					
														%	%	%
Mariposa Avenue	Wilshire Boulevard	West 7th Street	95	602.3	3	19.02	1	6.34	25	40	25	40	57.2	54.2	56.7	10
West 7th Street	Irlo Street	Mariposa Avenue	95	455.05	3	14.37	1	4.79	25	40	25	40	56.0	53.0	55.5	10
Wilshire Boulevard	Catalina Street	Vermont Avenue	95	2872.8	3	90.72	1	30.24	25	40	25	40	64.0	61.0	63.5	10
Mariposa Avenue	West 7th Street	West 8th Street	95	305.9	3	9.66	1	3.22	25	40	25	40	54.2	51.3	53.7	10
Catalina Street	West 7th Street	West 8th Street	95	630.8	3	19.92	1	6.64	25	40	25	40	57.4	54.4	56.9	10

Existing Conditions Plus Related Projects and Alternative A a.m. Peak (2007)

ROAD SEGMENT	from: to:		VEHICLE TYPE %			VEHICLE SPEED			NOISE LEVEL (dBA)			CALC. NOISE LEV. (15 m from rdwy ctr)	Recept. Dist. fr. Rdwy Ctr (m)			
	from:	to:	Auto %	MT %	HT %	Auto k/h	MT k/h	HT k/h	Auto	MT	HT					
														%	%	%
Mariposa Avenue	Wilshire Boulevard	West 7th Street	95	915.8	3	28.92	1	9.64	25	40	25	40	59.0	56.1	58.5	10
West 7th Street	Irlo Street	Mariposa Avenue	95	535.8	3	16.92	1	5.64	25	40	25	40	56.7	53.7	56.2	10
Wilshire Boulevard	Catalina Street	Vermont Avenue	95	3052.4	3	96.39	1	32.13	25	40	25	40	64.2	61.3	63.7	10
Mariposa Avenue	West 7th Street	West 8th Street	95	519.65	3	16.41	1	5.47	25	40	25	40	56.5	53.6	56.0	10
Catalina Street	West 7th Street	West 8th Street	95	848.35	3	26.79	1	8.93	25	40	25	40	58.7	55.7	58.2	10

Existing Conditions Plus Related Projects and Alternative B a.m. Peak (2007)

ROAD SEGMENT	from: to:		VEHICLE TYPE %			VEHICLE SPEED			NOISE LEVEL (dBA)			CALC. NOISE LEV. (15 m from rdwy ctr)	Recept. Dist. fr. Rdwy Ctr (m)			
	from:	to:	Auto %	MT %	HT %	Auto k/h	MT k/h	HT k/h	Auto	MT	HT					
														%	%	%
Mariposa Avenue	Wilshire Boulevard	West 7th Street	95	574.75	3	18.15	1	6.05	25	40	25	40	57.0	54.0	56.5	10
West 7th Street	Irlo Street	Mariposa Avenue	95	455.05	3	14.37	1	4.79	25	40	25	40	56.0	53.0	55.5	10
Wilshire Boulevard	Catalina Street	Vermont Avenue	95	2713.2	3	85.68	1	28.56	25	40	25	40	63.7	60.8	63.2	10
Mariposa Avenue	West 7th Street	West 8th Street	95	296.4	3	9.36	1	3.12	25	40	25	40	54.1	51.2	53.6	10
Catalina Street	West 7th Street	West 8th Street	95	615.6	3	19.44	1	6.48	25	40	25	40	57.3	54.3	56.8	10

Central Los Angeles New Learning Center #1 a.m. Peak Hour Noise Estimates

Adjusted Noise Level (dBA)	Recept. Dist. fr. Rdwy Ctr (m)	Adjusted Noise Level (dBA)
62.5	10	62.5
61.5	10	61.5
69.3	10	69.3
59.7	10	59.7
62.8	10	62.8

Adjusted Noise Level (dBA)	Recept. Dist. fr. Rdwy Ctr (m)	Adjusted Noise Level (dBA)
62.7	10	62.7
61.5	10	61.5
69.5	10	69.5
59.8	10	59.8
62.9	10	62.9

Adjusted Noise Level (dBA)	Recept. Dist. fr. Rdwy Ctr (m)	Adjusted Noise Level (dBA)
64.6	10	64.6
62.2	10	62.2
69.8	10	69.8
62.1	10	62.1
64.2	10	64.2

Adjusted Noise Level (dBA)	Recept. Dist. fr. Rdwy Ctr (m)	Adjusted Noise Level (dBA)

Central Los Angeles New Learning Center #1 a.m. Peak Hour Noise Estimates

64.6	10	64.6
61.9	10	61.9
69.8	10	69.8
62.8	10	62.8
64.2	10	64.2

Adjusted Noise Level (dBA)	Recept. Dist. fr. Rdwy Ctr (m)	Adjusted Noise Level (dBA)
64.4	10	64.4
62.3	10	62.3
69.8	10	69.8
63.2	10	63.2
64.2	10	64.2

Adjusted Noise Level (dBA)	Recept. Dist. fr. Rdwy Ctr (m)	Adjusted Noise Level (dBA)
64.4	10	64.4
62.3	10	62.3
69.8	10	69.8
63.2	10	63.2
64.2	10	64.2