

Appendix E

Noise Modeling Data

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 178040
Project Name: Veterans Affairs Community-Based Outpatient Clinic
Scenario: Existing

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Source of Traffic Volumes: Traffic Impact Analysis
 Community Noise Descriptor: L_{dn} : _____ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour				
								70 CNEL	65 CNEL	60 CNEL	55 CNEL		
US 101 South of Telephone Road	6	45	125,000	65	0.5	1.8%	0.7%	77.3	309	665	1,434	3,089	100
US 101 North of Telephone Road	5	45	96,000	65	0.5	1.8%	0.7%	75.9	249	536	1,156	2,490	100
CA 126 West of Victoria Avenue	4	45	47,000	65	0.5	1.8%	0.7%	72.6	150	323	695	1,498	100
CA 126 East of Victoria Avenue	4	45	46,000	65	0.5	1.8%	0.7%	72.5	148	318	685	1,476	100
Telephone Road West of Portola Road	6	14	32,500	40	0.5	1.8%	0.7%	65.8	-	112	242	521	100
Telephone Road Between Portola Road and Saratoga	6	12	22,500	40	0.5	1.8%	0.7%	64.1	-	88	189	406	100
Telephone Road Between Saratoga Avenue and Victoria Avenue	6	14	28,400	40	0.5	1.8%	0.7%	65.2	-	103	221	477	100
Telephone Road East of Victoria Avenue	6	14	29,200	40	0.5	1.8%	0.7%	65.3	-	105	225	485	100
Portola Road North of Telephone Avenue	4	15	5,500	40	0.5	1.8%	0.7%	57.8	-	-	71	153	100
Portola Road South of Telephone Avenue	2	12	7,700	40	0.5	1.8%	0.7%	59.1	-	40	87	187	100
Victoria Avenue North of Telephone Road	8	14	42,600	40	0.5	1.8%	0.7%	67.3	-	143	309	666	100
Victoria Avenue Between Telephone Road and Ralston Street	8	14	46,900	40	0.5	1.8%	0.7%	67.8	-	153	329	710	100
Victoria Avenue Between Ralston Street and Moon Drive	8	14	47,500	40	0.5	1.8%	0.7%	67.8	-	154	332	716	100
Victoria Avenue South of Moon Drive	8	14	46,000	40	0.5	1.8%	0.7%	67.7	-	151	325	701	100
Saratoga Avenue	2	0	3,800	25	0.5	1.8%	0.7%	52.2	-	-	-	65	100
Ralston Street	2	12	11,100	35	0.5	1.8%	0.7%	59.3	-	42	90	195	100

"-" = contour is located within the roadway right-of-way.

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 178040
Project Name: Veterans Affairs Community-Based Outpatient Clinic
Scenario: Existing+Project

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Source of Traffic Volumes: Traffic Impact Analysis
 Community Noise Descriptor: L_{dn} : _____ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour				
								70 CNEL	65 CNEL	60 CNEL	55 CNEL		
US 101 South of Telephone Road	6	45	125,100	65	0.5	1.8%	0.7%	77.3	309	666	1,434	3,090	100
US 101 North of Telephone Road	5	45	96,200	65	0.5	1.8%	0.7%	76.0	249	537	1,157	2,493	100
CA 126 West of Victoria Avenue	4	45	47,000	65	0.5	1.8%	0.7%	72.6	150	323	695	1,498	100
CA 126 East of Victoria Avenue	4	45	46,200	65	0.5	1.8%	0.7%	72.6	148	319	687	1,481	100
Telephone Road West of Portola Road	6	14	32,900	40	0.5	1.8%	0.7%	65.8	-	113	244	526	100
Telephone Road Between Portola Road and Saratoga Avenue	6	12	22,600	40	0.5	1.8%	0.7%	64.2	-	88	189	408	100
Telephone Road Between Saratoga Avenue and Victoria Avenue	6	14	28,600	40	0.5	1.8%	0.7%	65.2	-	103	222	479	100
Telephone Road East of Victoria Avenue	6	14	29,300	40	0.5	1.8%	0.7%	65.3	-	105	226	487	100
Portola Road North of Telephone Avenue	4	15	5,500	40	0.5	1.8%	0.7%	57.8	-	-	71	153	100
Portola Road South of Telephone Avenue	2	12	8,200	40	0.5	1.8%	0.7%	59.3	-	42	90	195	100
Victoria Avenue North of Telephone Road	8	14	42,600	40	0.5	1.8%	0.7%	67.3	-	143	309	666	100
Victoria Avenue Between Telephone Road and Ralston Street	8	14	47,000	40	0.5	1.8%	0.7%	67.8	-	153	330	711	100
Victoria Avenue Between Ralston Street and Moon Drive	8	14	47,500	40	0.5	1.8%	0.7%	67.8	-	154	332	716	100
Victoria Avenue South of Moon Drive	8	14	46,300	40	0.5	1.8%	0.7%	67.7	-	152	327	704	100
Saratoga Avenue	2	0	4,100	25	0.5	1.8%	0.7%	52.5	-	-	-	68	100
Ralston Street	2	12	11,300	35	0.5	1.8%	0.7%	59.4	-	42	92	197	100

"-" = contour is located within the roadway right-of-way.

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 178040
Project Name: Veterans Affairs Community-Based Outpatient Clinic
Scenario: General Plan Buildout (2025)

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Source of Traffic Volumes: Traffic Impact Analysis
 Community Noise Descriptor: L_{dn} : _____ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour				
								70 CNEL	65 CNEL	60 CNEL	55 CNEL		
US 101 South of Telephone Road	6	45	148,000	65	0.5	1.8%	0.7%	78.1	346	745	1,604	3,457	100
US 101 North of Telephone Road	5	45	114,000	65	0.5	1.8%	0.7%	76.7	279	602	1,296	2,792	100
CA 126 West of Victoria Avenue	4	45	50,000	65	0.5	1.8%	0.7%	72.9	156	336	724	1,561	100
CA 126 East of Victoria Avenue	4	45	58,000	65	0.5	1.8%	0.7%	73.5	172	371	800	1,723	100
Telephone Road West of Portola Road	6	14	33,000	40	0.5	1.8%	0.7%	65.8	-	113	244	527	100
Telephone Road Between Portola Road and Saratoga Avenue	6	12	27,000	40	0.5	1.8%	0.7%	64.9	-	99	213	459	100
Telephone Road Between Saratoga Avenue and Victoria Avenue	6	14	32,000	40	0.5	1.8%	0.7%	65.7	-	111	240	516	100
Telephone Road East of Victoria Avenue	6	14	29,000	40	0.5	1.8%	0.7%	65.3	-	104	224	483	100
Portola Road North of Telephone Avenue	4	15	6,000	40	0.5	1.8%	0.7%	58.2	-	-	75	162	100
Portola Road South of Telephone Avenue	2	12	9,000	40	0.5	1.8%	0.7%	59.7	-	45	96	207	100
Victoria Avenue North of Telephone Road	8	14	50,000	40	0.5	1.8%	0.7%	68.0	-	160	344	741	100
Victoria Avenue Between Telephone Road and Ralston Street	8	14	50,000	40	0.5	1.8%	0.7%	68.0	-	160	344	741	100
Victoria Avenue Between Ralston Street and Moon Drive	8	14	54,000	40	0.5	1.8%	0.7%	68.4	78	168	362	780	100
Victoria Avenue South of Moon Drive	8	14	53,000	40	0.5	1.8%	0.7%	68.3	77	166	357	770	100
Saratoga Avenue	2	0	5,000	25	0.5	1.8%	0.7%	53.3	-	-	36	78	100
Ralston Street	2	12	11,000	35	0.5	1.8%	0.7%	59.3	-	42	90	194	100

"-" = contour is located within the roadway right-of-way.

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 178040
Project Name: Veterans Affairs Community-Based Outpatient Clinic
Scenario: General Plan Buildout (2025)+Project

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Source of Traffic Volumes: Traffic Impact Analysis
 Community Noise Descriptor: L_{dn} : _____ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour				
								70 CNEL	65 CNEL	60 CNEL	55 CNEL		
US 101 South of Telephone Road	6	45	148,100	65	0.5	1.8%	0.7%	78.1	346	745	1,605	3,458	100
US 101 North of Telephone Road	5	45	114,200	65	0.5	1.8%	0.7%	76.7	280	602	1,298	2,795	100
CA 126 West of Victoria Avenue	4	45	50,000	65	0.5	1.8%	0.7%	72.9	156	336	724	1,561	100
CA 126 East of Victoria Avenue	4	45	58,200	65	0.5	1.8%	0.7%	73.6	173	372	802	1,727	100
Telephone Road West of Portola Road	6	14	33,400	40	0.5	1.8%	0.7%	65.9	-	114	246	531	100
Telephone Road Between Portola Road and Saratoga Avenue	6	12	27,100	40	0.5	1.8%	0.7%	64.9	-	99	213	460	100
Telephone Road Between Saratoga Avenue and Victoria Avenue	6	14	32,200	40	0.5	1.8%	0.7%	65.7	-	112	241	518	100
Telephone Road East of Victoria Avenue	6	14	29,100	40	0.5	1.8%	0.7%	65.3	-	104	225	484	100
Portola Road North of Telephone Avenue	4	15	6,000	40	0.5	1.8%	0.7%	58.2	-	-	75	162	100
Portola Road South of Telephone Avenue	2	12	9,500	40	0.5	1.8%	0.7%	60.0	-	46	100	215	100
Victoria Avenue North of Telephone Road	8	14	50,000	40	0.5	1.8%	0.7%	68.0	-	160	344	741	100
Victoria Avenue Between Telephone Road and Ralston Street	8	14	50,100	40	0.5	1.8%	0.7%	68.1	-	160	344	742	100
Victoria Avenue Between Ralston Street and Moon Drive	8	14	54,000	40	0.5	1.8%	0.7%	68.4	78	168	362	780	100
Victoria Avenue South of Moon Drive	8	14	53,300	40	0.5	1.8%	0.7%	68.3	77	166	359	773	100
Saratoga Avenue	2	0	5,300	25	0.5	1.8%	0.7%	53.6	-	-	37	81	100
Ralston Street	2	12	11,200	35	0.5	1.8%	0.7%	59.4	-	42	91	196	100

"-" = contour is located within the roadway right-of-way.