Appendix H

Noise Technical Data

Appendix H

Construction Noise Modeling Inputs & Outputs

Neighborhoods Where We All Belong — Zoning Updates and Housing Element Implementation
City of Costa Mesa Program Environmental Impact Report

Construction noise levels were estimated using the FHWA Roadway Construction Noise Model (RCNM) Version 2.0 methodology with INCE 2022 equipment reference levels. Barrier insertion loss was calculated per FTA 2018 methodology. All levels are A-weighted (dBA).

Site Development — Screening Distance Analysis

Screening Distance — Threshold: 80 dBA | Averaging: 8 hrs | Receiver Height: 5 ft

Phase	Equipment	Qty	Ref L_{eq} @ 50 ft (dBA)	Description / Notes	Dist to NSR (ft)	Barrier IL (dB)	Dist-Adj Level (dBA)	Op Time (hrs)	Predicted 8-hr L_{eq} (dBA)
Demolition	Concrete Saw	1	85.45	Concrete/Industrial Saws	87	0.06	78.03	8	78.03
	Excavator	1	75.85	Excavators	87	0.06	69.74	8	69.74
	Dozer	1	79.96	Rubber Tired Dozers	87	0.06	73.55	8	73.55
				Total for Demolition Phase:					**79.8**
Site Preparation	Dozer	1	79.96	Rubber Tired Dozers	59	0.06	78.40	8	78.40
	Backhoe	1	75.81	Tractors/Loaders/Backhoes	59	0.06	74.25	8	74.25
				Total for Site Preparation Phase:					**79.8**
Grading	Excavator	1	75.85	Excavators	158	0.06	62.48	8	62.48
	Grader (passby)	1	78.52	Graders	158	0.06	65.12	8	65.12
	Dozer	1	79.96	Rubber Tired Dozers	158	0.06	66.46	8	66.46
	Scraper	1	92.41	Scrapers	158	0.06	79.31	8	79.31
	Backhoe	1	75.81	Tractors/Loaders/Backhoes	158	0.06	62.19	8	62.19
				Total for Grading Phase:					**79.8**
Building Construction	Crane	1	74.18	Cranes	101	0.06	66.47	7	65.89
	Telescopic Handler (Forklift)	1	88.31	Forklifts	101	0.06	79.35	8	79.35
	Generator	1	67.08	Generator Sets	101	0.06	58.53	8	58.53
	Backhoe	1	75.81	Tractors/Loaders/Backhoes	101	0.06	67.25	7	66.67
	Welding Machine	1	71.20	Welders	101	0.06	62.11	8	62.11
				Total for Building Construction Phase:					**79.9**
Paving	Paving - Asphalt (Paver + Dump Truck)	1	81.78	Pavers	89	0.06	74.97	8	74.97
	Paving - Asphalt (Paver + Dump Truck)	1	81.78	Paving Equipment	89	0.06	74.97	8	74.97
	Compactor (Roller)	1	82.37	Rollers	89	0.06	75.38	8	75.38
				Total for Paving Phase:					**79.9**
Architectural Coating	Compressor	1	65.63	Air Compressors	10	0.06	79.54	6	78.29
				Total for Architectural Coating Phase:					**78.3**

Open Trench / Linear Infrastructure — Screening Distance Analysis

Screening Distance — Threshold: 80 dBA | Averaging: 8 hrs | Receiver Height: 5 ft

Phase	Equipment	Qty	Ref L_{eq} @ 50 ft (dBA)	Description / Notes	Dist to NSR (ft)	Barrier IL (dB)	Dist-Adj Level (dBA)	Op Time (hrs)	Predicted 8-hr L_{eq} (dBA)
Open Trench Construction	Excavator	1	75.85	Excavators	143	0.06	63.59	5	61.55
	Crane	1	74.18	Cranes	143	0.06	62.17	4	59.16
	Generator	1	67.08	Generator Sets	143	0.06	54.54	2	48.52
	Backhoe	1	75.81	Tractors/Loaders/Backhoes	143	0.06	63.26	4	60.25
	Front End Loader (Cyclical)	1	72.36	Rubber Tired Loaders	143	0.06	60.06	4	57.05
	Welding Machine	1	71.20	Welders	143	0.06	58.32	6	57.07
	Street Sweeper	1	81.30	Sweepers/Scrubbers	143	0.06	68.83	3	64.57
	Crane	1	74.18	Cranes	143	0.06	62.17	5	60.13
	Concrete Saw	1	85.45	Concrete/Industrial Saws	143	0.06	72.51	8	72.51
	Generator	1	67.08	Generator Sets	143	0.06	54.54	6	53.29
	Backhoe	1	75.81	Skid Steer Loaders	143	0.06	63.26	4	60.25
	Telescopic Handler (Forklift)	1	88.31	Forklifts	143	0.06	75.51	5	73.47
	Compressor	1	65.63	Air Compressors	143	0.06	53.05	5	51.01
	Paving - Asphalt (Paver + Dump Truck)	1	81.78	Paving Equipment	143	0.06	69.31	8	69.31
	Compactor (Plate)	1	74.64	Plate Compactors	143	0.06	61.51	8	61.51
	Compactor (Roller)	1	82.37	Rollers	143	0.06	69.81	8	69.81
	Concrete Saw	1	85.45	Concrete/Industrial Saws	143	0.06	72.51	8	72.51
	Paving - Asphalt (Paver + Dump Truck)	1	81.78	Pavers	143	0.06	69.31	8	69.31
	Crane	1	74.18	Cranes	143	0.06	62.17	8	62.17
				Total for Open Trench Construction Phase:					**79.9**

RCNM Equipment Reference Levels (INCE 2022 Database)

Reference noise levels from the INCE 2022 equipment noise database as implemented in FHWA RCNM 2.0. Levels represent measured Leq or Lmax at 50 feet from the source.

Equipment Type	Source Height (ft)	Stationary?	Avg L_{eq} @ 50 ft	Avg L_{max} @ 50 ft	Ref Level Used
Air-Operated Post Driver	7.0	Yes	83.23	84.92	83.23
Asphalt Distributor Truck (Asphalt Sprayer)	5.0	No	—	69.67	69.67
Auger Drill	6.4	Yes	87.54	101.05	87.54
Backhoe	4.5	Yes	75.81	83.57	75.81
Bar Bender	2.0	Yes	66.33	74.68	66.33
Blasting (Abrasive)	12.3	Yes	100.33	102.99	100.33
Blasting (Explosive)	1.0	Yes	82.79	92.73	82.79
Chip Spreader	6.0	No	—	76.73	76.73
Compactor (Plate)	1.0	No	—	74.64	74.64
Compactor (Roller)	4.4	No	—	82.37	82.37
Compressor	4.3	Yes	65.63	66.78	65.63
Concrete Batch Plant	25.0	Yes	86.61	90.00	86.61
Concrete Grinder	5.0	No	—	96.66	96.66
Concrete Mixer Truck	5.0	Yes	81.12	82.42	81.12
Concrete Pump Truck	5.7	Yes	83.49	87.52	83.49
Concrete Saw	2.2	Yes	85.45	88.10	85.45
Crane	7.7	Yes	74.18	75.97	74.18
Directional Drill Rig	4.0	Yes	67.95	79.65	67.95
Dozer	5.3	Yes	79.96	86.08	79.96
Drum Mixer	3.0	Yes	65.77	70.64	65.77
Dump Truck (Cyclical)	4.8	Yes	81.67	91.63	81.67
Dump Truck (Passby)	5.1	No	—	73.09	73.09
Excavator	6.2	Yes	75.85	86.73	75.85
Flatbed Truck	5.0	No	—	74.17	74.17
Front End Loader (Cyclical)	6.0	Yes	72.36	81.39	72.36
Front End Loader (Passby)	5.4	No	—	71.22	71.22
Generator	4.5	Yes	67.08	67.83	67.08
Grader (passby)	6.0	No	—	78.52	78.52
Hoe Ram	1.0	Yes	91.66	98.75	91.66
Horizontal Bore Drill	9.0	Yes	87.04	87.82	87.04
Impact Pile Driver	5.3	Yes	98.95	104.87	98.95
Joint Sealer	3.0	No	—	74.14	74.14
Light Tower	3.0	Yes	60.63	61.82	60.63
Man Lift	5.8	Yes	72.08	73.26	72.08
Movement Alarm	5.5	Yes	79.08	80.43	79.08
Mud Recycler	4.0	Yes	73.26	73.83	73.26
Pavement Scarifier (Milling Machine)	6.5	No	—	83.97	83.97
Paving - Asphalt (Paver + Dump Truck)	5.0	No	—	81.78	81.78
Paving - Asphalt (Paver + MTV + Dump Truck)	5.5	No	—	82.83	82.83

Equipment Type	Source Height (ft)	Stationary?	Avg L_{eq} @ 50 ft	Avg L_{max} @ 50 ft	Ref Level Used
Paving - Concrete (Placer + Slipform Paver)	9.0	Yes	87.17	90.83	87.17
Paving - Concrete (Texturing/Curing Machine)	8.0	Yes	73.28	74.03	73.28
Paving - Concrete (Triple Roller Tube Paver)	5.0	Yes	85.06	88.91	85.06
Power Tools - Air Hose	1.0	Yes	92.76	99.91	92.76
Power Tools - Chainsaw	1.0	Yes	79.38	82.66	79.38
Power Tools - Chipping Gun	1.0	Yes	94.98	99.48	94.98
Power Tools - Circular Saw	1.0	Yes	72.92	76.10	72.92
Power Tools - Grinder	1.0	Yes	67.63	71.24	67.63
Power Tools - Hammer Drill	1.0	Yes	72.37	75.06	72.37
Power Tools - Impact Wrench	1.0	Yes	68.25	72.22	68.25
Power Tools - Jackhammer	1.0	Yes	90.95	95.39	90.95
Power Tools - Jig Saw	1.0	Yes	91.86	94.64	91.86
Power Tools - Nail Gun	1.0	Yes	69.55	73.47	69.55
Power Tools - Reciprocating Saw	1.0	Yes	63.71	65.98	63.71
Power Tools - Rivet Buster	1.0	Yes	100.28	107.28	100.28
Power Tools - Sander	1.0	Yes	65.01	67.51	65.01
Power Unit (Power Pack)	4.3	Yes	81.22	81.62	81.22
Pump	3.8	Yes	72.78	73.89	72.78
Rock Drill	3.7	Yes	91.55	95.33	91.55
Rumble Strip Grinding	6.0	No	—	87.26	87.26
Scraper	8.0	No	—	92.41	92.41
Shot Crete Pump/Spray	4.0	Yes	78.02	86.80	78.02
Street Sweeper	5.0	No	—	81.30	81.30
Telescopic Handler (Forklift)	3.0	No	—	88.31	88.31
Vacuum Excavator (Vac-Truck)	5.6	Yes	85.91	86.75	85.91
Ventilation Fan	1.5	Yes	61.72	63.17	61.72
Vibratory Concrete Consolidator	2.0	Yes	78.41	80.23	78.41
Vibratory Pile Driver	1.0	Yes	98.45	104.50	98.45
Warning Horn (Air Horn)	5.0	Yes	93.73	99.14	93.73
Water Spray Truck	5.2	No	—	71.97	71.97
Welding Machine	2.5	Yes	71.20	72.13	71.20

Appendix H

Traffic Volume Comparison

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Traffic volumes obtained from the Orange County Transportation Analysis Model (OCTAM). Volume ratios express the with-project volume divided by the without-project volume. A volume ratio of 2.00 represents a doubling of traffic and corresponds to a 3.0 dB increase in traffic noise. Sorted by volume ratio (descending).

Existing (2019 Base Year) vs. Existing + Project

Volume Ratio = (With Project ADT) / (Without Project ADT). Estimated dB Increase = $10 \times \log_{10}$(Volume Ratio). A ratio of 2.00 corresponds to a 3.0 dB increase (doubling of traffic volume).

Roadway	Existing (2019) (ADT)	Existing + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
SOUTH COAST DR	5,497	16,923	11,426	3.08	4.9
SOUTH COAST DR	3,429	10,306	6,877	3.01	4.8
HYLAND AV	4,568	9,551	4,983	2.09	3.2
PLACENTIA AV	5,884	12,216	6,333	2.08	3.2
SOUTH COAST DR	5,802	11,933	6,131	2.06	3.1
SUNFLOWER AV	8,458	16,739	8,281	1.98	3.0
SUNFLOWER AV	20,310	36,243	15,933	1.78	2.5
SUNFLOWER AV	14,871	25,887	11,016	1.74	2.4
SOUTH COAST DR	1,867	2,949	1,082	1.58	2.0
W MESA VERDE DR	2,124	3,338	1,214	1.57	2.0
NEWPORT BLVD	4,248	6,616	2,368	1.56	1.9
W MESA VERDE DR	2,170	3,378	1,208	1.56	1.9
HYLAND AV	17,995	27,861	9,866	1.55	1.9
W MESA VERDE DR	2,302	3,553	1,250	1.54	1.9
HARBOR BLVD	17,176	25,789	8,614	1.50	1.8
PLACENTIA AV	3,478	5,187	1,709	1.49	1.7
NEWPORT BLVD	3,447	5,061	1,614	1.47	1.7
SUNFLOWER AV	19,528	28,016	8,488	1.43	1.6
NEWPORT BLVD	1,401	1,983	582	1.42	1.5
COUNTRY CLUB DR	3,083	4,296	1,212	1.39	1.4
E WILSON ST	1,119	1,549	430	1.38	1.4
W 19TH ST	39,799	54,169	14,370	1.36	1.3
HARBOR BLVD	24,158	32,805	8,647	1.36	1.3
SOUTH COAST DR	5,197	7,006	1,809	1.35	1.3
COUNTRY CLUB DR	3,405	4,578	1,173	1.34	1.3
GISLER AV	3,405	4,578	1,173	1.34	1.3
COUNTRY CLUB DR	3,508	4,679	1,171	1.33	1.3

Roadway	Existing (2019) (ADT)	Existing + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
19TH ST	37,645	50,050	12,404	1.33	1.2
W 17TH ST	12,107	16,090	3,984	1.33	1.2
NEWPORT BLVD	4,886	6,489	1,604	1.33	1.2
PLACENTIA AV	4,190	5,522	1,332	1.32	1.2
NEWPORT BLVD	1,799	2,365	566	1.31	1.2
PLACENTIA AV	10,472	13,444	2,972	1.28	1.1
NEWPORT BLVD	9,103	11,601	2,498	1.27	1.1
NEWPORT BLVD	5,357	6,825	1,468	1.27	1.1
PLACENTIA AV	2,293	2,920	627	1.27	1.0
W 17TH ST	15,333	19,431	4,098	1.27	1.0
PLACENTIA AV	10,203	12,868	2,665	1.26	1.0
W 17TH ST	5,785	7,262	1,477	1.26	1.0
HARBOR BLVD	21,154	26,533	5,380	1.25	1.0
SAKIOKA DR	13,580	16,949	3,370	1.25	1.0
SAN DIEGO FRWY, I-405 (HOV)	1,730	2,154	424	1.25	1.0
E WILSON ST	3,352	4,170	818	1.24	0.9
PAULARINO AV	22,775	27,993	5,218	1.23	0.9
W 17TH ST	9,617	11,784	2,167	1.23	0.9
W 19TH ST	18,691	22,902	4,211	1.23	0.9
HARBOR BLVD	45,409	55,630	10,220	1.23	0.9
BAKER ST	16,657	20,367	3,711	1.22	0.9
BAKER ST	5,997	7,324	1,327	1.22	0.9
W 19TH ST	46,547	56,611	10,063	1.22	0.9
HARBOR BLVD	49,732	60,428	10,696	1.22	0.8
PLACENTIA AV	9,196	11,169	1,973	1.21	0.8
HARBOR BLVD	26,615	32,294	5,679	1.21	0.8
SUNFLOWER AV	23,212	27,994	4,781	1.21	0.8
NEWPORT BLVD	8,872	10,684	1,812	1.20	0.8
BEAR ST	8,562	10,274	1,712	1.20	0.8
HARBOR BLVD	61,204	73,307	12,103	1.20	0.8
BRISTOL ST	27,431	32,824	5,393	1.20	0.8
E PAULARINO AV	9,580	11,440	1,860	1.19	0.8
HARBOR BLVD	68,605	81,739	13,133	1.19	0.8
W WILSON ST	6,512	7,758	1,245	1.19	0.8
BRISTOL ST	20,792	24,673	3,880	1.19	0.7
BRISTOL ST	67,812	80,428	12,616	1.19	0.7
PAULARINO AV	22,784	27,007	4,223	1.19	0.7
NEWPORT BLVD	3,085	3,656	570	1.18	0.7
BEAR ST	33,461	39,641	6,180	1.18	0.7
BRISTOL ST	45,690	54,099	8,409	1.18	0.7
SANTA ANA AV	291	345	53	1.18	0.7
HARBOR BLVD	61,669	72,836	11,167	1.18	0.7
HARBOR BLVD	61,669	72,836	11,167	1.18	0.7

Roadway	Existing (2019) (ADT)	Existing + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
SUNFLOWER AV	15,138	17,839	2,701	1.18	0.7
HARBOR BLVD	26,774	31,548	4,773	1.18	0.7
HARBOR BLVD	34,752	40,934	6,182	1.18	0.7
PLACENTIA AV	15,666	18,425	2,759	1.18	0.7
NEWPORT BLVD	7,072	8,305	1,233	1.17	0.7
SOUTH COAST DR	10,051	11,797	1,746	1.17	0.7
NEWPORT BLVD	20,109	23,601	3,491	1.17	0.7
HARBOR BLVD	37,538	44,009	6,471	1.17	0.7
W MACARTHUR BLVD	25,279	29,606	4,327	1.17	0.7
HARBOR BLVD	53,031	62,089	9,059	1.17	0.7
PLACENTIA AV	5,244	6,123	879	1.17	0.7
FAIRVIEW RD	17,484	20,414	2,930	1.17	0.7
FAIRVIEW RD	17,484	20,414	2,930	1.17	0.7
FAIRVIEW RD	10,930	12,730	1,800	1.16	0.7
TALBERT AV	38,578	44,856	6,279	1.16	0.7
W MACARTHUR BLVD	39,282	45,634	6,351	1.16	0.7
HARBOR BLVD	40,350	46,849	6,499	1.16	0.6
HARBOR BLVD	44,155	51,259	7,104	1.16	0.6
ANTON BLVD	30,650	35,547	4,897	1.16	0.6
BRISTOL ST	30,781	35,677	4,896	1.16	0.6
PLACENTIA AV	13,469	15,611	2,142	1.16	0.6
BRISTOL ST	34,842	40,356	5,514	1.16	0.6
BEAR ST	28,957	33,525	4,567	1.16	0.6
FAIRVIEW RD	14,398	16,667	2,269	1.16	0.6
HARBOR BLVD	63,607	73,549	9,942	1.16	0.6
FAIRVIEW RD	13,541	15,656	2,115	1.16	0.6
NEWPORT BLVD	22,575	26,038	3,462	1.15	0.6
HARBOR BLVD	35,602	41,054	5,452	1.15	0.6
FAIRVIEW RD	28,378	32,708	4,330	1.15	0.6
MESA DR	7,003	8,070	1,066	1.15	0.6
BEAR ST	30,678	35,300	4,623	1.15	0.6
FAIRVIEW RD	26,571	30,547	3,976	1.15	0.6
VICTORIA ST	22,976	26,407	3,432	1.15	0.6
NEWPORT BLVD	20,903	23,993	3,090	1.15	0.6
HARBOR BLVD	52,021	59,548	7,527	1.14	0.6
E 17TH ST	37,083	42,432	5,349	1.14	0.6
COSTA MESA FRWY, SR-55	42,692	48,812	6,120	1.14	0.6
NEWPORT BLVD	19,499	22,244	2,745	1.14	0.6
SANTA ANA AV	3,075	3,503	429	1.14	0.6
FAIRVIEW RD	6,337	7,218	881	1.14	0.6
BRISTOL ST	65,003	73,929	8,926	1.14	0.6
FAIRVIEW RD	23,949	27,223	3,274	1.14	0.6
NEWPORT BLVD	3,807	4,327	519	1.14	0.6

Roadway	Existing (2019) (ADT)	Existing + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
BRISTOL ST	21,667	24,591	2,924	1.13	0.5
E 17TH ST	26,984	30,622	3,638	1.13	0.5
BRISTOL ST	68,625	77,871	9,246	1.13	0.5
FAIRVIEW RD	21,911	24,852	2,942	1.13	0.5
COSTA MESA FRWY, SR-55	47,636	53,956	6,320	1.13	0.5
COSTA MESA FRWY, SR-55	47,636	53,956	6,320	1.13	0.5
W WILSON ST	6,933	7,818	886	1.13	0.5
BEAR ST	42,814	48,216	5,403	1.13	0.5
W WILSON ST	9,480	10,676	1,196	1.13	0.5
PAULARINO AV	22,356	25,172	2,816	1.13	0.5
FAIRVIEW RD	51,697	58,170	6,473	1.13	0.5
SANTA ANA AV	15,059	16,944	1,885	1.13	0.5
FAIRVIEW RD	57,876	65,026	7,150	1.12	0.5
W WILSON ST	6,780	7,607	827	1.12	0.5
W MACARTHUR BLVD	29,233	32,796	3,562	1.12	0.5
RED HILL AV	9,038	10,134	1,096	1.12	0.5
SUNFLOWER AV	30,977	34,718	3,741	1.12	0.5
SUNFLOWER AV	30,991	34,723	3,731	1.12	0.5
E MESA VERDE DR	20,824	23,330	2,505	1.12	0.5
GISLER AV	9,968	11,156	1,188	1.12	0.5
BRISTOL ST	40,844	45,683	4,839	1.12	0.5
VICTORIA ST	24,661	27,570	2,910	1.12	0.5
SANTA ISABEL AV	2,689	3,001	313	1.12	0.5
SE BRISTOL ST	33,297	37,086	3,790	1.11	0.5
HAMILTON AV	28,024	31,178	3,154	1.11	0.5
VICTORIA ST	28,024	31,178	3,154	1.11	0.5
SANTA ISABEL AV	3,280	3,649	369	1.11	0.5
SAKIOKA DR	22,796	25,350	2,555	1.11	0.5
COSTA MESA FRWY, SR-55	58,063	64,508	6,445	1.11	0.5
BEAR ST	26,465	29,374	2,910	1.11	0.5
DEL MAR AV	13,063	14,496	1,433	1.11	0.5
COSTA MESA FRWY, SR-55	61,014	67,591	6,578	1.11	0.4
HARBOR BLVD	53,625	59,404	5,778	1.11	0.4
PAULARINO AV	18,410	20,376	1,966	1.11	0.4
COSTA MESA FRWY, SR-55	42,995	47,525	4,529	1.11	0.4
E 17TH ST	25,447	28,117	2,670	1.10	0.4
BEAR ST	24,376	26,911	2,535	1.10	0.4
VICTORIA ST	20,271	22,364	2,093	1.10	0.4
E 17TH ST	25,404	28,020	2,616	1.10	0.4
BEAR ST	15,037	16,567	1,531	1.10	0.4
W BAKER ST	33,148	36,515	3,368	1.10	0.4
W BAKER ST	33,148	36,515	3,368	1.10	0.4
W WILSON ST	9,983	10,986	1,003	1.10	0.4

Roadway	Existing (2019) (ADT)	Existing + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
COSTA MESA FRWY, SR-55	60,451	66,456	6,005	1.10	0.4
FAIRVIEW RD	55,821	61,332	5,511	1.10	0.4
RAITT ST	12,032	13,219	1,187	1.10	0.4
E 17TH ST	24,756	27,192	2,436	1.10	0.4
COSTA MESA FRWY, SR-55	45,755	50,228	4,473	1.10	0.4
COSTA MESA FRWY, SR-55	47,850	52,509	4,659	1.10	0.4
COSTA MESA FRWY, SR-55	47,850	52,509	4,659	1.10	0.4
BRISTOL ST	84,096	92,165	8,069	1.10	0.4
UNIVERSITY DR	8,991	9,853	862	1.10	0.4
COSTA MESA FRWY, SR-55	71,195	77,983	6,787	1.10	0.4
VICTORIA ST	23,217	25,393	2,177	1.09	0.4
NEWPORT BLVD	4,931	5,391	460	1.09	0.4
ANTON BLVD	40,499	44,246	3,748	1.09	0.4
COSTA MESA FRWY, SR-55	42,467	46,394	3,927	1.09	0.4
COSTA MESA FRWY, SR-55	52,469	57,297	4,828	1.09	0.4
PAULARINO AV	22,977	25,072	2,095	1.09	0.4
SE BRISTOL ST	38,455	41,950	3,495	1.09	0.4
SANTA ANA AV	648	706	59	1.09	0.4
SANTA ANA AV	648	706	59	1.09	0.4
W BAKER ST	12,971	14,131	1,160	1.09	0.4
FAIR DR	10,451	11,369	918	1.09	0.4
HARBOR BLVD	19,334	21,021	1,687	1.09	0.4
COSTA MESA FRWY, SR-55	48,632	52,859	4,227	1.09	0.4
W MACARTHUR BLVD	28,639	31,087	2,447	1.09	0.4
HARBOR BLVD	64,965	70,418	5,453	1.08	0.4
ANTON BLVD	43,977	47,644	3,667	1.08	0.3
RED HILL AV	15,658	16,963	1,304	1.08	0.3
DEL MAR AV	9,419	10,193	774	1.08	0.3
MERRIMAC WY	12,930	13,956	1,026	1.08	0.3
MERRIMAC WY	12,930	13,956	1,026	1.08	0.3
S FAIRVIEW ST	47,163	50,852	3,689	1.08	0.3
HYLAND AV	2,641	2,847	206	1.08	0.3
E MESA VERDE DR	19,276	20,775	1,499	1.08	0.3
PAULARINO AV	23,958	25,786	1,828	1.08	0.3
FAIRVIEW RD	45,485	48,947	3,462	1.08	0.3
COSTA MESA FRWY, SR-55	71,460	76,882	5,422	1.08	0.3
FAIR DR	22,136	23,804	1,668	1.08	0.3
COSTA MESA FRWY, SR-55	56,847	61,128	4,281	1.08	0.3
SAN DIEGO FRWY, I-405 (HOV)	5,416	5,824	408	1.08	0.3
BRISTOL ST	46,791	50,283	3,491	1.07	0.3
W BAKER ST	36,226	38,916	2,689	1.07	0.3
SANTA ANA AV	423	454	31	1.07	0.3
UNIVERSITY DR	11,283	12,097	814	1.07	0.3

Roadway	Existing (2019) (ADT)	Existing + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
NEWPORT BLVD	26,457	28,362	1,905	1.07	0.3
COSTA MESA FRWY, SR-55	61,298	65,705	4,408	1.07	0.3
VICTORIA ST	28,725	30,733	2,008	1.07	0.3
RED HILL AV	14,010	14,975	965	1.07	0.3
FAIRVIEW RD	51,709	55,260	3,551	1.07	0.3
RED HILL AV	16,877	18,032	1,154	1.07	0.3
W BAKER ST	34,287	36,582	2,295	1.07	0.3
HARBOR BLVD	64,227	68,524	4,297	1.07	0.3
22ND ST	12,692	13,520	828	1.07	0.3
NEWPORT BLVD	7,095	7,555	460	1.06	0.3
ARLINGTON DR	5,615	5,978	363	1.06	0.3
SANTA ANA AV	1,178	1,254	76	1.06	0.3
W BAKER ST	24,995	26,600	1,606	1.06	0.3
SANTA ANA AV	3,644	3,876	232	1.06	0.3
FAIR DR	25,066	26,646	1,580	1.06	0.3
ARLINGTON DR	5,389	5,722	333	1.06	0.3
SAN DIEGO FRWY, I-405 (HOV)	10,231	10,862	632	1.06	0.3
VICTORIA ST	24,037	25,521	1,483	1.06	0.3
E 19TH ST	12,543	13,314	771	1.06	0.3
SANTA ANA AV	1,999	2,120	121	1.06	0.3
NEWPORT BLVD	10,046	10,639	593	1.06	0.2
W BAKER ST	32,713	34,606	1,893	1.06	0.2
VICTORIA ST	19,099	20,182	1,083	1.06	0.2
ADAMS AV	40,840	43,148	2,308	1.06	0.2
W 19TH ST	20,310	21,455	1,145	1.06	0.2
COSTA MESA FRWY, SR-55	68,370	72,121	3,751	1.05	0.2
BEAR ST	24,147	25,470	1,323	1.05	0.2
COSTA MESA FRWY, SR-55	52,574	55,413	2,838	1.05	0.2
RED HILL AV	22,047	23,212	1,165	1.05	0.2
RED HILL AV	22,047	23,212	1,165	1.05	0.2
COSTA MESA FRWY, SR-55	65,420	68,797	3,377	1.05	0.2
ADAMS AV	43,223	45,450	2,227	1.05	0.2
ADAMS AV	43,223	45,450	2,227	1.05	0.2
DEL MAR AV	22,052	23,188	1,136	1.05	0.2
NEWPORT BLVD	20,120	21,144	1,024	1.05	0.2
COSTA MESA FRWY, SR-55	74,488	78,268	3,780	1.05	0.2
SAN DIEGO FRWY, I-405 (HOV)	3,953	4,151	198	1.05	0.2
SANTA ANA AV	6,398	6,715	317	1.05	0.2
FAIRVIEW RD	63,065	66,153	3,088	1.05	0.2
W WILSON ST	7,484	7,850	366	1.05	0.2
COSTA MESA FRWY, SR-55	76,901	80,578	3,677	1.05	0.2
E 19TH ST	12,258	12,841	583	1.05	0.2
COSTA MESA FRWY, SR-55 (HOV)	7,613	7,975	362	1.05	0.2

Roadway	Existing (2019) (ADT)	Existing + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
E 19TH ST	12,033	12,588	555	1.05	0.2
22ND ST	8,180	8,553	373	1.05	0.2
E BAKER ST	40,151	41,945	1,794	1.04	0.2
ADAMS AV	33,702	35,173	1,471	1.04	0.2
COSTA MESA FRWY, SR-55	95,491	99,500	4,009	1.04	0.2
COSTA MESA FRWY, SR-55	43,982	45,818	1,836	1.04	0.2
COSTA MESA FRWY, SR-55	42,655	44,422	1,767	1.04	0.2
COSTA MESA FRWY, SR-55 (HOV)	3,675	3,826	152	1.04	0.2
HARBOR BLVD	54,034	56,258	2,224	1.04	0.2
NEWPORT BLVD	4,072	4,237	166	1.04	0.2
NEWPORT BLVD	9,015	9,381	365	1.04	0.2
COSTA MESA FRWY, SR-55	53,586	55,730	2,143	1.04	0.2
FAIRVIEW RD	48,669	50,504	1,836	1.04	0.2
SR-73 FRWY	64,354	66,711	2,357	1.04	0.2
SUPERIOR AV	3,226	3,341	115	1.04	0.2
BRISTOL ST	38,361	39,725	1,364	1.04	0.2
SAN DIEGO FRWY, I-405 (HOV)	7,532	7,797	266	1.04	0.2
NEWPORT BLVD	45,561	47,127	1,565	1.03	0.1
IRVINE AV	27,483	28,424	941	1.03	0.1
SE BRISTOL ST	16,787	17,359	571	1.03	0.1
HARBOR BLVD	39,316	40,621	1,304	1.03	0.1
SAN DIEGO FRWY, I-405	137,832	142,381	4,550	1.03	0.1
SAN DIEGO FRWY, I-405 (HOV)	9,408	9,713	305	1.03	0.1
GREENVILLE ST	16,498	17,027	529	1.03	0.1
ADAMS AV	32,802	33,848	1,046	1.03	0.1
SR-73 FRWY	72,599	74,893	2,294	1.03	0.1
SAN DIEGO FRWY, I-405	149,810	154,361	4,551	1.03	0.1
COSTA MESA FRWY, SR-55 (HOV)	16,653	17,141	488	1.03	0.1
COSTA MESA FRWY, SR-55 (HOV)	8,279	8,517	238	1.03	0.1
SANTA ANA AV	2,526	2,597	71	1.03	0.1
COSTA MESA FRWY, SR-55 (HOV)	12,978	13,314	336	1.03	0.1
SAN DIEGO FRWY, I-405	90,203	92,491	2,289	1.03	0.1
22ND ST	9,096	9,322	226	1.02	0.1
NEWPORT BLVD	43,069	44,135	1,066	1.02	0.1
NEWPORT BLVD	43,069	44,135	1,066	1.02	0.1
E MESA VERDE DR	2,631	2,696	65	1.02	0.1
SAN DIEGO FRWY, I-405	92,017	94,221	2,204	1.02	0.1
IRVINE AV	28,797	29,482	685	1.02	0.1
NEWPORT BLVD	21,952	22,462	510	1.02	0.1
E MESA VERDE DR	3,391	3,468	77	1.02	0.1
SAN DIEGO FRWY, I-405 (HOV)	15,180	15,521	341	1.02	0.1
SAN DIEGO FRWY, I-405	105,645	107,938	2,293	1.02	0.1
SAN DIEGO FRWY, I-405	104,531	106,788	2,257	1.02	0.1

Roadway	Existing (2019) (ADT)	Existing + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
SR-73 FRWY	75,325	76,919	1,594	1.02	0.1
NEWPORT BLVD	71,945	73,388	1,442	1.02	0.1
NEWPORT BLVD	71,945	73,388	1,442	1.02	0.1
SAN DIEGO FRWY, I-405 (HOV)	23,458	23,925	466	1.02	0.1
SR-73 FRWY	67,891	69,215	1,324	1.02	0.1
SAN DIEGO FRWY, I-405	146,696	149,482	2,786	1.02	0.1
NEWPORT BLVD	8,820	8,987	167	1.02	0.1
SAN DIEGO FRWY, I-405	161,517	164,564	3,047	1.02	0.1
SR-73 FRWY	74,640	76,035	1,395	1.02	0.1
SR-73 FRWY	76,896	78,309	1,413	1.02	0.1
SAN DIEGO FRWY, I-405 (HOV)	26,093	26,535	442	1.02	0.1
SAN DIEGO FRWY, I-405	88,859	90,329	1,470	1.02	0.1
E BAKER ST	5,950	6,047	98	1.02	0.1
SAN DIEGO FRWY, I-405	104,276	105,968	1,692	1.02	0.1
SAN DIEGO FRWY, I-405	142,455	144,693	2,238	1.02	0.1
SAN DIEGO FRWY, I-405	85,201	86,442	1,241	1.01	0.1
ADAMS AV	21,740	22,045	305	1.01	0.1
FAIR DR	6,203	6,289	87	1.01	0.1
SR-73 FRWY	55,804	56,568	764	1.01	0.1
IRVINE AV	18,973	19,230	258	1.01	0.1
SAN DIEGO FRWY, I-405	153,071	155,131	2,060	1.01	0.1
SAN DIEGO FRWY, I-405 (HOV)	11,227	11,370	143	1.01	0.1
SAN DIEGO FRWY, I-405	128,683	130,287	1,604	1.01	0.1
SANTA ANA AV	2,696	2,729	33	1.01	0.1
SR-73 FRWY	101,846	102,938	1,091	1.01	0.0
SR-73 FRWY	77,005	77,794	789	1.01	0.0
SAN DIEGO FRWY, I-405 (HOV)	21,279	21,497	218	1.01	0.0
SAN DIEGO FRWY, I-405	89,050	89,934	885	1.01	0.0
SAN DIEGO FRWY, I-405	130,838	132,065	1,227	1.01	0.0
SAN DIEGO FRWY, I-405	130,838	132,065	1,227	1.01	0.0
SR-73 FRWY	60,967	61,537	569	1.01	0.0
SAN DIEGO FRWY, I-405	82,362	83,113	751	1.01	0.0
SR-73 FRWY	63,042	63,568	526	1.01	0.0
SAN DIEGO FRWY, I-405	121,431	122,352	922	1.01	0.0
SAN DIEGO FRWY, I-405	127,282	128,236	954	1.01	0.0
IRVINE AV	20,728	20,866	138	1.01	0.0
SAN DIEGO FRWY, I-405	75,034	75,497	462	1.01	0.0
SR-73 FRWY	64,478	64,858	380	1.01	0.0
SAN DIEGO FRWY, I-405 (HOV)	18,421	18,524	104	1.01	0.0
ADAMS AV	38,186	38,390	204	1.01	0.0
SAN DIEGO FRWY, I-405	67,669	67,968	299	1.00	0.0
COSTA MESA FRWY, SR-55 (HOV)	12,010	12,048	38	1.00	0.0
SR-73 FRWY	65,179	65,246	67	1.00	0.0

Roadway	Existing (2019) (ADT)	Existing + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
HARBOR BLVD	55,180	55,193	13	1.00	0.0
SAN DIEGO FRWY, I-405	65,939	65,814	-125	1.00	-0.0
SANTA ANA AV	2,168	2,163	-5	1.00	-0.0
SR-73 FRWY	61,054	60,910	-144	1.00	-0.0
SR-73 FRWY	99,341	99,085	-256	1.00	-0.0
NEWPORT BLVD	52,611	52,367	-244	1.00	-0.0
BAKER ST	6,438	6,408	-30	1.00	-0.0
COSTA MESA FRWY, SR-55 (HOV)	5,365	5,340	-26	1.00	-0.0
SR-73 FRWY	74,007	73,654	-353	1.00	-0.0
SAN DIEGO FRWY, I-405 (HOV)	21,616	21,470	-147	0.99	-0.0
SAN DIEGO FRWY, I-405 (HOV)	2,635	2,610	-25	0.99	-0.0
SAN DIEGO FRWY, I-405 (HOV)	19,740	19,555	-186	0.99	-0.0
BAKER ST	4,927	4,873	-54	0.99	-0.0
SAN DIEGO FRWY, I-405 (HOV)	15,863	15,673	-190	0.99	-0.1
SAN DIEGO FRWY, I-405 (HOV)	15,863	15,673	-190	0.99	-0.1
E MESA VERDE DR	3,648	3,580	-68	0.98	-0.1
SAN DIEGO FRWY, I-405 (HOV)	6,099	5,976	-123	0.98	-0.1
ADAMS AV	34,950	33,990	-960	0.97	-0.1
W WILSON ST	3,167	3,072	-95	0.97	-0.1
SAN DIEGO FRWY, I-405 (HOV)	18,010	17,401	-610	0.97	-0.1
SAN DIEGO FRWY, I-405 (HOV)	12,209	11,757	-452	0.96	-0.2
SAN DIEGO FRWY, I-405 (HOV)	12,209	11,757	-452	0.96	-0.2
E 16TH ST	2,588	2,492	-96	0.96	-0.2
SAN DIEGO FRWY, I-405 (HOV)	14,336	13,574	-761	0.95	-0.2
SAN DIEGO FRWY, I-405 (HOV)	3,731	3,531	-200	0.95	-0.2
SR-73 FRWY	70,370	66,060	-4,310	0.94	-0.3
SAN DIEGO FRWY, I-405 (HOV)	3,196	2,946	-250	0.92	-0.4

Future (2050 Forecast Year) vs. Future + Project

Volume Ratio = (With Project ADT) / (Without Project ADT). Estimated dB Increase = $10 \times \log_{10}$(Volume Ratio). A ratio of 2.00 corresponds to a 3.0 dB increase (doubling of traffic volume).

Roadway	Future (2050) (ADT)	Future + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
SOUTH COAST DR	7,535	16,188	8,653	2.15	3.3
HYLAND AV	3,875	8,313	4,438	2.15	3.3
SOUTH COAST DR	4,703	9,057	4,353	1.93	2.8
SOUTH COAST DR	1,400	2,504	1,105	1.79	2.5
NEWPORT BLVD	4,095	6,467	2,372	1.58	2.0
SOUTH COAST DR	8,450	12,660	4,211	1.50	1.8
NEWPORT BLVD	1,277	1,866	590	1.46	1.6
HYLAND AV	18,047	25,788	7,741	1.43	1.6
PLACENTIA AV	1,887	2,681	794	1.42	1.5
SUNFLOWER AV	11,617	16,055	4,437	1.38	1.4
PLACENTIA AV	5,444	7,433	1,990	1.37	1.4
SUNFLOWER AV	25,955	35,273	9,318	1.36	1.3
PLACENTIA AV	4,850	6,514	1,664	1.34	1.3
HARBOR BLVD	18,078	24,193	6,115	1.34	1.3
PLACENTIA AV	4,298	5,733	1,434	1.33	1.3
SUNFLOWER AV	18,683	24,789	6,106	1.33	1.2
NEWPORT BLVD	3,294	4,344	1,050	1.32	1.2
SAKIOKA DR	9,166	11,990	2,824	1.31	1.2
HARBOR BLVD	23,664	30,630	6,966	1.29	1.1
NEWPORT BLVD	8,952	11,578	2,626	1.29	1.1
NEWPORT BLVD	1,516	1,919	403	1.27	1.0
PLACENTIA AV	9,195	11,611	2,416	1.26	1.0
NEWPORT BLVD	3,680	4,616	935	1.25	1.0
SUNFLOWER AV	21,917	27,218	5,301	1.24	0.9
HARBOR BLVD	20,426	25,258	4,832	1.24	0.9
PLACENTIA AV	6,677	8,175	1,498	1.22	0.9
W 17TH ST	14,094	17,243	3,149	1.22	0.9
W 19TH ST	44,058	53,806	9,748	1.22	0.9
PLACENTIA AV	4,575	5,567	993	1.22	0.9
PLACENTIA AV	3,542	4,258	716	1.20	0.8
PLACENTIA AV	3,540	4,246	706	1.20	0.8
NEWPORT BLVD	6,778	8,091	1,312	1.19	0.8
SOUTH COAST DR	5,795	6,916	1,120	1.19	0.8
W 17TH ST	17,252	20,525	3,272	1.19	0.8
NEWPORT BLVD	5,122	6,078	956	1.19	0.7
FAIRVIEW RD	5,325	6,302	977	1.18	0.7
SOUTH COAST DR	9,500	11,220	1,721	1.18	0.7
NEWPORT BLVD	2,788	3,290	503	1.18	0.7
HARBOR BLVD	45,517	53,496	7,979	1.18	0.7
W 17TH ST	6,505	7,645	1,140	1.18	0.7

Roadway	Future (2050) (ADT)	Future + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
SAKIOKA DR	18,196	21,273	3,078	1.17	0.7
SUNFLOWER AV	22,898	26,757	3,859	1.17	0.7
FAIRVIEW RD	13,690	15,952	2,262	1.17	0.7
FAIRVIEW RD	16,486	19,206	2,719	1.16	0.7
FAIRVIEW RD	16,486	19,206	2,719	1.16	0.7
VICTORIA ST	19,357	22,537	3,180	1.16	0.7
FAIRVIEW RD	10,469	12,184	1,715	1.16	0.7
19TH ST	43,648	50,729	7,081	1.16	0.7
HARBOR BLVD	59,271	68,805	9,533	1.16	0.6
HARBOR BLVD	59,271	68,805	9,533	1.16	0.6
HARBOR BLVD	27,563	31,974	4,411	1.16	0.6
HARBOR BLVD	49,880	57,758	7,878	1.16	0.6
BAKER ST	6,142	7,108	965	1.16	0.6
HARBOR BLVD	52,630	60,846	8,216	1.16	0.6
VICTORIA ST	18,403	21,271	2,868	1.16	0.6
E WILSON ST	2,606	3,008	401	1.15	0.6
NEWPORT BLVD	2,975	3,432	457	1.15	0.6
E 17TH ST	34,551	39,809	5,258	1.15	0.6
ANTON BLVD	29,096	33,519	4,424	1.15	0.6
HARBOR BLVD	49,683	57,233	7,549	1.15	0.6
FAIRVIEW RD	13,088	15,037	1,949	1.15	0.6
BEAR ST	34,196	39,243	5,048	1.15	0.6
HARBOR BLVD	27,538	31,591	4,053	1.15	0.6
FAIRVIEW RD	22,862	26,226	3,364	1.15	0.6
FAIRVIEW RD	25,505	29,214	3,709	1.15	0.6
W 19TH ST	49,514	56,689	7,176	1.14	0.6
NEWPORT BLVD	8,477	9,685	1,208	1.14	0.6
BAKER ST	16,773	19,152	2,379	1.14	0.6
HARBOR BLVD	63,153	72,057	8,903	1.14	0.6
PAULARINO AV	22,946	26,174	3,229	1.14	0.6
HARBOR BLVD	61,046	69,610	8,564	1.14	0.6
HARBOR BLVD	39,182	44,678	5,496	1.14	0.6
HARBOR BLVD	60,337	68,794	8,458	1.14	0.6
NEWPORT BLVD	6,640	7,563	923	1.14	0.6
COSTA MESA FRWY, SR-55 (HOV)	7,402	8,427	1,025	1.14	0.6
FAIRVIEW RD	23,870	27,173	3,303	1.14	0.6
W 19TH ST	26,342	29,901	3,559	1.14	0.6
TALBERT AV	37,842	42,941	5,099	1.13	0.5
VICTORIA ST	22,946	26,025	3,079	1.13	0.5
W 17TH ST	10,654	12,079	1,425	1.13	0.5
HARBOR BLVD	37,319	42,257	4,939	1.13	0.5
BEAR ST	30,898	34,971	4,073	1.13	0.5
BRISTOL ST	46,195	52,256	6,060	1.13	0.5

Roadway	Future (2050) (ADT)	Future + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
SAN DIEGO FRWY, I-405 (HOV)	9,958	11,256	1,298	1.13	0.5
PLACENTIA AV	13,031	14,717	1,686	1.13	0.5
W 17TH ST	2,942	3,322	380	1.13	0.5
HARBOR BLVD	45,669	51,544	5,875	1.13	0.5
SANTA ANA AV	15,675	17,691	2,016	1.13	0.5
NEWPORT BLVD	22,340	25,205	2,865	1.13	0.5
FAIRVIEW RD	21,479	24,196	2,716	1.13	0.5
HARBOR BLVD	46,724	52,613	5,889	1.13	0.5
VICTORIA ST	16,614	18,702	2,089	1.13	0.5
FAIRVIEW RD	51,882	58,378	6,496	1.13	0.5
SANTA ANA AV	592	666	73	1.12	0.5
SANTA ANA AV	592	666	73	1.12	0.5
HARBOR BLVD	42,609	47,864	5,256	1.12	0.5
HARBOR BLVD	71,298	80,068	8,769	1.12	0.5
HARBOR BLVD	54,919	61,640	6,721	1.12	0.5
E 17TH ST	25,126	28,187	3,061	1.12	0.5
HARBOR BLVD	17,535	19,619	2,084	1.12	0.5
W 19TH ST	22,370	25,025	2,655	1.12	0.5
BRISTOL ST	22,636	25,264	2,628	1.12	0.5
BRISTOL ST	64,438	71,841	7,402	1.11	0.5
BEAR ST	41,171	45,889	4,717	1.11	0.5
BRISTOL ST	35,309	39,346	4,037	1.11	0.5
BRISTOL ST	29,144	32,461	3,317	1.11	0.5
BRISTOL ST	68,464	76,245	7,780	1.11	0.5
W BAKER ST	34,620	38,529	3,909	1.11	0.5
W BAKER ST	34,620	38,529	3,909	1.11	0.5
VICTORIA ST	21,073	23,450	2,377	1.11	0.5
PAULARINO AV	22,120	24,595	2,475	1.11	0.5
BRISTOL ST	70,701	78,465	7,764	1.11	0.5
NEWPORT BLVD	24,119	26,727	2,607	1.11	0.4
E WILSON ST	401	444	43	1.11	0.4
BEAR ST	29,706	32,892	3,185	1.11	0.4
W BAKER ST	14,964	16,559	1,595	1.11	0.4
E MESA VERDE DR	19,199	21,239	2,040	1.11	0.4
W MACARTHUR BLVD	27,633	30,469	2,836	1.10	0.4
BRISTOL ST	40,197	44,288	4,091	1.10	0.4
FAIRVIEW RD	50,771	55,906	5,135	1.10	0.4
FAIRVIEW RD	57,146	62,821	5,675	1.10	0.4
FAIRVIEW RD	43,326	47,611	4,284	1.10	0.4
SAN DIEGO FRWY, I-405 (HOV)	6,445	7,082	637	1.10	0.4
SAN DIEGO FRWY, I-405 (HOV)	13,498	14,828	1,330	1.10	0.4
SAN DIEGO FRWY, I-405 (HOV)	13,498	14,828	1,330	1.10	0.4
SAN DIEGO FRWY, I-405 (HOV)	13,498	14,828	1,330	1.10	0.4

Roadway	Future (2050) (ADT)	Future + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
NEWPORT BLVD	21,945	24,095	2,150	1.10	0.4
SANTA ANA AV	269	295	26	1.10	0.4
ANTON BLVD	45,943	50,414	4,471	1.10	0.4
BRISTOL ST	83,644	91,734	8,090	1.10	0.4
COSTA MESA FRWY, SR-55	55,036	60,330	5,294	1.10	0.4
SANTA ANA AV	1,432	1,568	137	1.10	0.4
PAULARINO AV	17,147	18,770	1,623	1.09	0.4
E 17TH ST	23,438	25,648	2,210	1.09	0.4
W MACARTHUR BLVD	29,502	32,264	2,763	1.09	0.4
VICTORIA ST	26,105	28,549	2,444	1.09	0.4
VICTORIA ST	20,365	22,264	1,899	1.09	0.4
VICTORIA ST	14,911	16,290	1,380	1.09	0.4
E 17TH ST	23,414	25,570	2,156	1.09	0.4
NEWPORT BLVD	8,129	8,878	748	1.09	0.4
W BAKER ST	35,971	39,269	3,297	1.09	0.4
COSTA MESA FRWY, SR-55	41,936	45,747	3,811	1.09	0.4
NEWPORT BLVD	18,973	20,692	1,719	1.09	0.4
BEAR ST	8,963	9,767	804	1.09	0.4
E 17TH ST	22,612	24,627	2,015	1.09	0.4
COSTA MESA FRWY, SR-55	48,064	52,296	4,232	1.09	0.4
RAITT ST	10,186	11,082	896	1.09	0.4
W BAKER ST	33,915	36,895	2,980	1.09	0.4
ARLINGTON DR	6,323	6,877	554	1.09	0.4
COSTA MESA FRWY, SR-55	46,793	50,858	4,065	1.09	0.4
COSTA MESA FRWY, SR-55	46,793	50,858	4,065	1.09	0.4
NEWPORT BLVD	18,794	20,424	1,630	1.09	0.4
COSTA MESA FRWY, SR-55	55,045	59,804	4,758	1.09	0.4
NEWPORT BLVD	20,199	21,944	1,745	1.09	0.4
COSTA MESA FRWY, SR-55	71,555	77,659	6,104	1.09	0.4
NEWPORT BLVD	8,392	9,105	714	1.09	0.4
E MESA VERDE DR	17,505	18,990	1,485	1.08	0.4
BEAR ST	24,545	26,604	2,058	1.08	0.3
SUNFLOWER AV	31,204	33,808	2,604	1.08	0.3
SUNFLOWER AV	31,203	33,806	2,603	1.08	0.3
COSTA MESA FRWY, SR-55	62,232	67,396	5,164	1.08	0.3
COSTA MESA FRWY, SR-55	60,587	65,499	4,912	1.08	0.3
FAIR DR	16,034	17,330	1,297	1.08	0.3
SANTA ANA AV	9,582	10,346	764	1.08	0.3
COSTA MESA FRWY, SR-55 (HOV)	11,884	12,830	946	1.08	0.3
HAMILTON AV	47,054	50,767	3,714	1.08	0.3
MESA DR	6,075	6,553	478	1.08	0.3
BRISTOL ST	31,803	34,270	2,467	1.08	0.3
ANTON BLVD	48,651	52,409	3,758	1.08	0.3

Roadway	Future (2050) (ADT)	Future + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
MERRIMAC WY	12,012	12,923	911	1.08	0.3
MERRIMAC WY	12,012	12,923	911	1.08	0.3
FAIR DR	26,491	28,490	1,999	1.08	0.3
SANTA ANA AV	6,849	7,366	517	1.08	0.3
BEAR ST	26,527	28,495	1,968	1.07	0.3
COSTA MESA FRWY, SR-55	58,662	63,008	4,346	1.07	0.3
ARLINGTON DR	6,147	6,596	449	1.07	0.3
COUNTRY CLUB DR	5,576	5,982	407	1.07	0.3
PAULARINO AV	21,522	23,087	1,564	1.07	0.3
FAIR DR	29,195	31,312	2,117	1.07	0.3
COSTA MESA FRWY, SR-55 (HOV)	7,762	8,311	549	1.07	0.3
FAIRVIEW RD	61,769	66,081	4,312	1.07	0.3
COSTA MESA FRWY, SR-55	45,720	48,755	3,034	1.07	0.3
COSTA MESA FRWY, SR-55	49,703	52,965	3,262	1.07	0.3
COSTA MESA FRWY, SR-55	49,703	52,965	3,262	1.07	0.3
COSTA MESA FRWY, SR-55	72,895	77,627	4,732	1.06	0.3
COSTA MESA FRWY, SR-55	51,903	55,254	3,351	1.06	0.3
FAIRVIEW RD	50,321	53,519	3,199	1.06	0.3
BEAR ST	15,226	16,168	942	1.06	0.3
COSTA MESA FRWY, SR-55	62,838	66,704	3,866	1.06	0.3
W BAKER ST	38,901	41,272	2,371	1.06	0.3
HARBOR BLVD	51,032	54,141	3,109	1.06	0.3
ADAMS AV	30,208	32,032	1,824	1.06	0.3
NEWPORT BLVD	41,793	44,305	2,512	1.06	0.3
FAIRVIEW RD	48,380	51,271	2,891	1.06	0.3
RED HILL AV	10,291	10,904	613	1.06	0.3
BRISTOL ST	50,749	53,766	3,016	1.06	0.3
SE BRISTOL ST	34,409	36,441	2,031	1.06	0.2
HARBOR BLVD	60,644	64,203	3,559	1.06	0.2
COSTA MESA FRWY, SR-55	45,560	48,199	2,638	1.06	0.2
SANTA ANA AV	420	444	24	1.06	0.2
SE BRISTOL ST	17,539	18,527	988	1.06	0.2
E PAULARINO AV	8,540	9,020	480	1.06	0.2
NEWPORT BLVD	38,801	40,928	2,128	1.05	0.2
NEWPORT BLVD	38,801	40,928	2,128	1.05	0.2
COSTA MESA FRWY, SR-55	70,142	73,972	3,830	1.05	0.2
PAULARINO AV	21,529	22,702	1,174	1.05	0.2
COUNTRY CLUB DR	6,298	6,633	334	1.05	0.2
GISLER AV	6,298	6,633	334	1.05	0.2
COUNTRY CLUB DR	6,398	6,731	333	1.05	0.2
SUNFLOWER AV	16,890	17,763	872	1.05	0.2
SAN DIEGO FRWY, I-405 (HOV)	4,119	4,330	211	1.05	0.2
HARBOR BLVD	51,065	53,600	2,535	1.05	0.2

Roadway	Future (2050) (ADT)	Future + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
ADAMS AV	28,956	30,393	1,437	1.05	0.2
E BAKER ST	10,717	11,247	530	1.05	0.2
E 19TH ST	12,115	12,713	598	1.05	0.2
RED HILL AV	16,788	17,597	808	1.05	0.2
NEWPORT BLVD	66,337	69,389	3,053	1.05	0.2
NEWPORT BLVD	66,337	69,389	3,053	1.05	0.2
W BALBOA BLVD	19,619	20,485	866	1.04	0.2
SE BRISTOL ST	41,699	43,532	1,833	1.04	0.2
DEL MAR AV	26,835	28,006	1,171	1.04	0.2
E MESA VERDE DR	3,165	3,301	137	1.04	0.2
DEL MAR AV	31,185	32,521	1,337	1.04	0.2
COSTA MESA FRWY, SR-55	67,247	70,114	2,867	1.04	0.2
ADAMS AV	37,691	39,273	1,582	1.04	0.2
BEAR ST	24,885	25,922	1,037	1.04	0.2
W BAKER ST	26,230	27,313	1,083	1.04	0.2
COSTA MESA FRWY, SR-55	81,185	84,532	3,347	1.04	0.2
NEWPORT BLVD	10,817	11,259	443	1.04	0.2
RED HILL AV	19,476	20,269	793	1.04	0.2
COSTA MESA FRWY, SR-55 (HOV)	14,077	14,645	567	1.04	0.2
HARBOR BLVD	37,047	38,529	1,482	1.04	0.2
RED HILL AV	19,492	20,259	767	1.04	0.2
SUPERIOR AV	3,159	3,282	123	1.04	0.2
COSTA MESA FRWY, SR-55	45,212	46,958	1,746	1.04	0.2
SANTA ANA AV	1,168	1,213	45	1.04	0.2
COSTA MESA FRWY, SR-55	54,880	56,988	2,108	1.04	0.2
E 19TH ST	11,239	11,668	429	1.04	0.2
ADAMS AV	39,961	41,455	1,495	1.04	0.2
ADAMS AV	39,961	41,455	1,495	1.04	0.2
SR-73 FRWY (HOV)	2,278	2,362	84	1.04	0.2
COSTA MESA FRWY, SR-55 (HOV)	18,156	18,818	661	1.04	0.2
SAN DIEGO FRWY, I-405 (HOV)	19,669	20,372	703	1.04	0.2
S FAIRVIEW ST	47,493	49,177	1,683	1.04	0.2
W MACARTHUR BLVD	30,124	31,190	1,066	1.04	0.2
BRISTOL ST	24,161	25,005	845	1.03	0.1
E 19TH ST	11,066	11,446	380	1.03	0.1
GREENVILLE ST	16,181	16,697	516	1.03	0.1
E BAKER ST	43,502	44,865	1,363	1.03	0.1
NEWPORT BLVD	3,987	4,111	125	1.03	0.1
FAIR DR	11,861	12,214	353	1.03	0.1
DEL MAR AV	23,155	23,844	688	1.03	0.1
ADAMS AV	22,677	23,349	671	1.03	0.1
RED HILL AV	24,403	25,125	722	1.03	0.1
RED HILL AV	24,403	25,125	722	1.03	0.1

Roadway	Future (2050) (ADT)	Future + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
SAN DIEGO FRWY, I-405 (HOV)	11,842	12,190	348	1.03	0.1
22ND ST	12,853	13,228	375	1.03	0.1
NEWPORT BLVD	6,092	6,268	176	1.03	0.1
SR-73 FRWY	66,845	68,725	1,880	1.03	0.1
NEWPORT BLVD	20,325	20,887	562	1.03	0.1
SR-73 FRWY	58,999	60,607	1,609	1.03	0.1
E MESA VERDE DR	2,321	2,384	62	1.03	0.1
COSTA MESA FRWY, SR-55	79,127	81,133	2,006	1.03	0.1
SR-73 FRWY	72,076	73,869	1,793	1.02	0.1
COSTA MESA FRWY, SR-55	55,253	56,587	1,334	1.02	0.1
GISLER AV	12,788	13,087	299	1.02	0.1
COSTA MESA FRWY, SR-55 (HOV)	4,079	4,173	94	1.02	0.1
HYLAND AV	2,217	2,266	50	1.02	0.1
UNIVERSITY DR	22,306	22,796	490	1.02	0.1
SAN DIEGO FRWY, I-405 (HOV)	15,406	15,726	320	1.02	0.1
PAULARINO AV	21,899	22,344	444	1.02	0.1
SR-73 FRWY (HOV)	3,080	3,141	61	1.02	0.1
SAN DIEGO FRWY, I-405 (HOV)	11,327	11,553	226	1.02	0.1
SR-73 FRWY	59,047	60,224	1,177	1.02	0.1
NEWPORT BLVD	48,802	49,771	969	1.02	0.1
SANTA ANA AV	2,377	2,424	47	1.02	0.1
SANTA ANA AV	2,524	2,573	49	1.02	0.1
SR-73 FRWY	54,510	55,548	1,038	1.02	0.1
SAN DIEGO FRWY, I-405	162,977	166,075	3,098	1.02	0.1
SR-73 FRWY	70,612	71,945	1,333	1.02	0.1
SR-73 FRWY	68,168	69,442	1,274	1.02	0.1
COSTA MESA FRWY, SR-55	44,721	45,546	824	1.02	0.1
SR-73 FRWY	63,599	64,716	1,117	1.02	0.1
BRISTOL ST	43,415	44,145	730	1.02	0.1
SAN DIEGO FRWY, I-405 (HOV)	18,129	18,433	304	1.02	0.1
UNIVERSITY DR	21,781	22,146	364	1.02	0.1
SANTA ISABEL AV	2,531	2,570	39	1.02	0.1
W BALBOA BLVD	25,882	26,278	397	1.02	0.1
SR-73 FRWY	91,889	93,253	1,364	1.01	0.1
COSTA MESA FRWY, SR-55	104,985	106,532	1,547	1.01	0.1
SR-73 FRWY	60,982	61,850	868	1.01	0.1
22ND ST	7,275	7,378	103	1.01	0.1
ADAMS AV	35,551	36,038	487	1.01	0.1
SAN DIEGO FRWY, I-405	94,643	95,929	1,286	1.01	0.1
SR-73 FRWY (HOV)	3,802	3,852	50	1.01	0.1
SR-73 FRWY (HOV)	6,878	6,963	84	1.01	0.1
SAN DIEGO FRWY, I-405	112,463	113,810	1,347	1.01	0.1
SR-73 FRWY	71,187	72,037	850	1.01	0.1

Roadway	Future (2050) (ADT)	Future + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
SAN DIEGO FRWY, I-405	116,645	117,863	1,218	1.01	0.0
SR-73 FRWY	50,395	50,881	486	1.01	0.0
SAN DIEGO FRWY, I-405	155,171	156,658	1,487	1.01	0.0
SR-73 FRWY (HOV)	3,244	3,275	31	1.01	0.0
SR-73 FRWY	71,929	72,615	685	1.01	0.0
SR-73 FRWY	53,615	54,121	506	1.01	0.0
SR-73 FRWY (HOV)	6,783	6,847	64	1.01	0.0
SR-73 FRWY (HOV)	3,539	3,572	33	1.01	0.0
SAN DIEGO FRWY, I-405	160,520	161,787	1,267	1.01	0.0
SAN DIEGO FRWY, I-405	167,595	168,905	1,310	1.01	0.0
SAN DIEGO FRWY, I-405	88,589	89,264	675	1.01	0.0
SR-73 FRWY	55,956	56,343	387	1.01	0.0
SR-73 FRWY	61,289	61,683	393	1.01	0.0
SAN DIEGO FRWY, I-405	156,633	157,632	998	1.01	0.0
SR-73 FRWY	96,680	97,294	615	1.01	0.0
SR-73 FRWY (HOV)	3,798	3,821	23	1.01	0.0
SAN DIEGO FRWY, I-405	144,648	145,448	800	1.01	0.0
SAN DIEGO FRWY, I-405	96,303	96,829	525	1.01	0.0
SAN DIEGO FRWY, I-405	98,540	99,049	509	1.01	0.0
SAN DIEGO FRWY, I-405 (HOV)	13,224	13,290	66	1.01	0.0
IRVINE AV	34,871	35,040	169	1.00	0.0
SR-73 FRWY (HOV)	2,981	2,995	14	1.00	0.0
SANTA ISABEL AV	1,964	1,971	7	1.00	0.0
ADAMS AV	33,188	33,300	112	1.00	0.0
COSTA MESA FRWY, SR-55 (HOV)	6,315	6,334	18	1.00	0.0
SAN DIEGO FRWY, I-405	117,142	117,329	187	1.00	0.0
SAN DIEGO FRWY, I-405	159,842	160,023	182	1.00	0.0
SAN DIEGO FRWY, I-405	71,765	71,824	59	1.00	0.0
SAN DIEGO FRWY, I-405	137,698	137,786	89	1.00	0.0
SAN DIEGO FRWY, I-405	137,698	137,786	89	1.00	0.0
SAN DIEGO FRWY, I-405	137,698	137,786	89	1.00	0.0
SAN DIEGO FRWY, I-405	74,488	74,531	43	1.00	0.0
SAN DIEGO FRWY, I-405	93,214	93,241	27	1.00	0.0
IRVINE AV	36,011	36,014	3	1.00	0.0
SR-73 FRWY (HOV)	4,601	4,601	0	1.00	0.0
SAN DIEGO FRWY, I-405	143,360	143,333	-27	1.00	-0.0
IRVINE AV	17,206	17,190	-16	1.00	-0.0
SAN DIEGO FRWY, I-405	103,885	103,680	-205	1.00	-0.0
SAN DIEGO FRWY, I-405 (HOV)	10,887	10,844	-43	1.00	-0.0
SAN DIEGO FRWY, I-405 (HOV)	10,887	10,844	-43	1.00	-0.0
SAN DIEGO FRWY, I-405 (HOV)	10,887	10,844	-43	1.00	-0.0
SAN DIEGO FRWY, I-405	87,302	86,905	-397	1.00	-0.0
22ND ST	8,242	8,201	-41	0.99	-0.0

Roadway	Future (2050) (ADT)	Future + Project (ADT)	Difference (ADT)	Volume Ratio	Estimated dB Increase
BAKER ST	6,255	6,223	-32	0.99	-0.0
SAN DIEGO FRWY, I-405 (HOV)	2,723	2,707	-16	0.99	-0.0
IRVINE AV	17,558	17,450	-108	0.99	-0.0
SANTA ANA AV	2,663	2,646	-17	0.99	-0.0
SAN DIEGO FRWY, I-405 (HOV)	6,286	6,243	-44	0.99	-0.0
SAN DIEGO FRWY, I-405 (HOV)	9,104	8,959	-145	0.98	-0.1
SAN DIEGO FRWY, I-405 (HOV)	4,483	4,404	-79	0.98	-0.1
SANTA ANA AV	2,137	2,096	-42	0.98	-0.1
BAKER ST	4,653	4,547	-107	0.98	-0.1
E 16TH ST	2,514	2,450	-64	0.97	-0.1
E MESA VERDE DR	3,614	3,495	-119	0.97	-0.1
19TH ST	7,119	6,780	-339	0.95	-0.2
SAN DIEGO FRWY, I-405 (HOV)	9,711	9,116	-594	0.94	-0.3
W MACARTHUR BLVD	40,208	45,341	5,133	1.13	0.5
W MESA VERDE DR	4,810	5,251	440	1.09	0.4
W MESA VERDE DR	4,636	5,031	395	1.09	0.4
W MESA VERDE DR	4,672	5,063	391	1.08	0.3
W WILSON ST	4,047	3,773	-275	0.93	-0.3
W WILSON ST	9,180	10,769	1,589	1.17	0.7
W WILSON ST	14,286	15,348	1,061	1.07	0.3
W WILSON ST	10,285	11,747	1,463	1.14	0.6
W WILSON ST	9,374	10,220	846	1.09	0.4
W WILSON ST	12,908	14,500	1,592	1.12	0.5
W WILSON ST	7,215	8,202	987	1.14	0.6