Appendix I: Noise Modeling

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Scenario: Maximum Roadway Classification Volumes

\	/ehicle Mix [·]	1 (Collector	s)	V	ehicle Mix	2 (Arterials	s)	Vehicle Mi	x 3 (SR-4′	1 Freeway	')
Day	Evening	Night	Daily	Day	Evening	Night	Daily	Day	Evening	Night	Daily
72.72%	12.09%	9.58%	94.39%	73.30%	10.20%	10.00%	93.40%	65.76%	13.48%	15.77%	95.00%
4.16%	0.46%	0.31%	4.92%	2.70%	0.30%	0.30%	3.20%	1.48%	0.27%	0.75%	2.50%
0.23%	0.46%	0.01%	0.69%	2.90%	0.20%	0.30%	3.40%	1.37%	0.13%	1.00%	2.50%
Vehicle M	1ix 4 (SR-99	Freeway)		Vehicle Mi	x 5 (SR-18	0 Freeway)	Vehicle Mi	x 6 (SR-16	68 Freewa	ay)
Day	Evening	Night	Daily	Day	Evening	Night	Daily	Day	Evening	Night	Daily
53.30%	10.92%	12.78%	77.00%	65.76%	13.48%	15.77%	95.00%	62.30%	12.77%	14.94%	90.00%
2.86%	0.52%	1.45%	4.83%	2.07%	0.38%	1.05%	3.50%	5.10%	0.92%	2.58%	8.60%
9.95%	0.95%	7.27%	18.17%	0.82%	0.08%	0.60%	1.50%	0.77%	0.07%	0.56%	1.40%
	Day 72.72% 4.16% 0.23% Vehicle N Day 53.30% 2.86% 9.95%	Vehicle Mix Day Evening 72.72% 12.09% 4.16% 0.46% 0.23% 0.46% Vehicle Mix 4 (SR-99 Day Evening 53.30% 10.92% 2.86% 0.52% 9.95% 0.95%	Vehicle Mix 1 (Collector Day Evening Night 72.72% 12.09% 9.58% 4.16% 0.46% 0.31% 0.23% 0.46% 0.01% Vehicle Mix 4 (SR-99 Freeway) Day Evening Night 53.30% 10.92% 12.78% 2.86% 0.52% 1.45% 9.95% 0.95% 7.27% 0.95% 0.27%	Vehicle Mix 1 (Collectors) Day Evening Night Daily 72.72% 12.09% 9.58% 94.39% 4.16% 0.46% 0.31% 4.92% 0.23% 0.46% 0.01% 0.69% Vehicle Mix 4 (SR-99 Freeway) Vehicle Mix 4 (SR-99 Freeway) Daily 53.30% 10.92% 12.78% 77.00% 2.86% 0.52% 1.45% 4.83% 9.95% 0.95% 7.27% 18.17%	Vehicle Mix 1 (Collectors) V Day Evening Night Daily Day 72.72% 12.09% 9.58% 94.39% 73.30% 4.16% 0.46% 0.31% 4.92% 2.70% 0.23% 0.46% 0.01% 0.69% 2.90% Vehicle Mix 4 (SR-99 Freeway) Vehicle Mix Vehicle Mix Day Evening Night Daily Day 53.30% 10.92% 12.78% 77.00% 65.76% 2.86% 0.52% 1.45% 4.83% 2.07% 9.95% 0.95% 7.27% 18.17% 0.82%	Vehicle Mix 1 (Collectors) Vehicle Mix Day Evening Night Daily Day Evening 72.72% 12.09% 9.58% 94.39% 73.30% 10.20% 4.16% 0.46% 0.31% 4.92% 2.70% 0.30% 0.23% 0.46% 0.01% 0.69% 2.90% 0.20% Vehicle Mix 4 (SR-99 Freeway) Vehicle Mix 5 (SR-18) Day Evening Night Daily Day Evening 53.30% 10.92% 12.78% 77.00% 65.76% 13.48% 2.86% 0.52% 1.45% 4.83% 2.07% 0.38% 9.95% 0.95% 7.27% 18.17% 0.82% 0.08%	Vehicle Mix 1 (Collectors) Vehicle Mix 2 (Arterials Day Evening Night Daily Day Evening Night 72.72% 12.09% 9.58% 94.39% 73.30% 10.20% 10.00% 4.16% 0.46% 0.31% 4.92% 2.70% 0.30% 0.30% 0.23% 0.46% 0.01% 0.69% 2.90% 0.20% 0.30% Vehicle Mix 4 (SR-99 Freeway) Vehicle Mix 5 (SR-180 Freeway) Day Evening Night Daily Day Evening Night 53.30% 10.92% 12.78% 77.00% 65.76% 13.48% 15.77% 2.86% 0.52% 1.45% 4.83% 2.07% 0.38% 1.05% 9.95% 0.95% 7.27% 18.17% 0.82% 0.08% 0.60%	Vehicle Mix 1 (Collectors) Vehicle Mix 2 (Arterials) Day Evening Night Daily Day Evening Night Daily 72.72% 12.09% 9.58% 94.39% 73.30% 10.20% 10.00% 93.40% 4.16% 0.46% 0.31% 4.92% 2.70% 0.30% 0.30% 3.20% 0.23% 0.46% 0.01% 0.69% 2.90% 0.20% 0.30% 3.40% Vehicle Mix 4 (SR-99 Freeway) Vehicle Mix 5 (SR-180 Freeway) Vehicle Mix 5 (SR-180 Freeway) 5 Day Evening Night Daily Day Evening Night Daily 53.30% 10.92% 12.78% 77.00% 65.76% 13.48% 15.77% 95.00% 2.86% 0.52% 1.45% 4.83% 2.07% 0.38% 1.05% 3.50% 9.95% 0.95% 7.27% 18.17% 0.82% 0.08% 0.60% 1.50%	Vehicle Mix 1 (Collectors) Vehicle Mix 2 (Arterials) Vehicle Mi Day Evening Night Daily Day Evening Night Day Day 72.72% 12.09% 9.58% 94.39% 73.30% 10.20% 10.00% 93.40% 65.76% 4.16% 0.46% 0.31% 4.92% 2.70% 0.30% 0.30% 3.20% 1.48% 0.23% 0.46% 0.01% 0.69% 2.90% 0.20% 0.30% 3.40% 1.37% Vehicle Mix 4 (SR-99 Freeway) Vehicle Mix 5 (SR-180 Freeway) Vehicle Mi Day Evening Night Daily Day Evening Night Day 53.30% 10.92% 12.78% 77.00% 65.76% 13.48% 15.77% 95.00% 62.30% 2.86% 0.52% 1.45% 4.83% 2.07% 0.38% 1.05% 3.50% 5.10% 9.95% 0.95% 7.27% 18.17% 0.82% 0.08% 0.60% 1.50%	Vehicle Mix 1 (Collectors) Vehicle Mix 2 (Arterials) Vehicle Mix 3 (SR-4) Day Evening Night Daily Day Evening Night Day Evening 72.72% 12.09% 9.58% 94.39% 73.30% 10.20% 10.00% 93.40% 65.76% 13.48% 4.16% 0.46% 0.31% 4.92% 2.70% 0.30% 0.30% 3.20% 1.48% 0.27% 0.23% 0.46% 0.01% 0.69% 2.90% 0.20% 0.30% 3.40% 1.37% 0.13% Vehicle Mix 4 (SR-99 Freeway) Vehicle Mix 5 (SR-180 Freeway) Vehicle Mix 6 (SR-16) Day Evening Night Daily Day Evening Night Day Evening Day Evening Night Daily Day Evening Night Day Evening S3.30% 10.92% 12.78% 77.00% 65.76% 13.48% 15.77% 95.00% 62.30% 12.77% 2.86% 0.52%	Vehicle Mix 1 (Collectors) Vehicle Mix 2 (Arterials) Vehicle Mix 3 (SR-41 Freeway) Day Evening Night Daily Day Evening Night Daily Day Evening Night Daily Night Day Evening Night Daily Day Evening Night Daily Day Evening Night Day

Road Name:	2-Lane C	Collector			Segme	ent:	Existing						
Average Daily Tr	raffic: 231	00 Vehicles		Vehicle Sp	eed: 40 MP	Н	Vehicle M	ix: 1	Roa	dway Cla	assification	: 2-Lane C	Collector
	NC	DISE PARAN	METERS A	T 72 FEET	FROM CEN	NTERLINE	E (Ee	quiv. Lane Dist	: 67.71 f	ťt)	Centerline	Distance	e to
		Noise Ad	justments			Unn	nitigated I	Noise Levels			Noise Cor	ntour (in f	eet)
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	67.36	2.06	-2.08	-1.20	66.1	64.0	62.2	56.4	64.9	65.49	70 dBA:	33	36
Medium Trucks	76.31	-10.77	-2.08	-1.20	62.3	47.7	44.1	37.6	47.3	47.84	65 dBA:	72	79
Heavy Trucks	81.16	-19.32	-2.08	-1.20	58.6	31.4	40.4	19.0	33.7	37.25	60 dBA:	155	169
				Total:	68.1	64.1	62.3	56.5	65.0	65.6	55 dBA:	333	365

Road Name:	2-Lane C	Collector			Segme	ent:	Existing	Plus Project					
Average Daily Tr	raffic: 277	affic: 27700 Vehicles NOISE PARAMETERS			eed: 40 MP	Н	Vehicle M	ix: 1	Roa	dway Cl	assification	: 2-Lane C	ollector
	NC	DISE PARA	METERS A	T 72 FEET	FROM CEN	NTERLINE	E (Ed	quiv. Lane Dist:	71.26 f	ft)	Centerline	Distance	e to
		Noise Ad			Unn	nitigated I	Noise Levels			Noise Cor	ntour (in f	eet)	
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	67.36	2.85	-2.41	-1.20	66.6	64.4	62.7	56.9	65.4	65.9	70 dBA:	36	39
Medium Trucks	76.31	-9.98	-2.41	-1.20	62.7	48.1	44.6	38.0	47.8	48.3	65 dBA:	77	84
Heavy Trucks	81.16	-18.53	-2.41	-1.20	59.0	31.8	40.9	19.5	34.2	37.7	60 dBA:	166	182
				Total:	68.6	64.5	62.7	56.9	65.4	66.0	55 dBA:	358	391

Road Name:	2-Lane Co	ollector			Segme	ent:	Cumulati	ve Plus Projec	t				
Average Daily T	raffic: 2990	0 Vehicles		Vehicle Sp	eed: 40 MP	Η	Vehicle M	lix: 1	Roa	dway Cl	assification	2-Lane C	Collector
	NO	ISE PARAN	JETERS A	T 72 FEET	FROM CEN	NTERLINE	E (E	quiv. Lane Dist:	71.26 f	ft)	Centerline	Distance	e to
		Noise Ad	justments			Unn	nitigated	Noise Levels			Noise Cor	ntour (in f	eet)
Vehicle Type	REMELT	raffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	67.36	3.18	-2.41	-1.20	66.9	64.8	63.0	57.2	65.7	66.3	70 dBA:	38	41
Medium Trucks	76.31	-9.65	-2.41	-1.20	63.1	48.5	44.9	38.4	48.1	48.6	65 dBA:	81	89
Heavy Trucks	81.16	-18.20	-2.41	-1.20	59.3	32.2	41.2	19.8	34.5	38.0	60 dBA:	175	191
		-		Total:	68.9	64.9	63.1	57.3	65.8	66.4	55 dBA:	376	412

Scenario: Maximum Roadway Classification Volumes

Road Name:	4-Lane C	ollector			Segme	ent:	Existing						
Average Daily T	raffic: 286	00 Vehicles		Vehicle Sp	eed: 30 MP	Н	Vehicle M	ix: 1	Roa	dway Cl	assification:	4-Lane C	ollector
	NC	ISE PARAN	IETERS A	T 92 FEET	FROM CEI	NTERLINE	(Ec	uiv. Lane Dist:	89.64 f	t)	Centerline	Distance	e to
		Noise Adj	ustments			Unn	nitigated N	loise Levels			Noise Cont	our (in f	eet)
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	62.51	4.24	-3.91	-1.20	61.6	59.5	57.7	51.9	60.4	61.0	70 dBA:	21	24
Medium Trucks	73.11	-8.59	-3.91	-1.20	59.4	44.8	41.3	34.7	44.5	45.0	65 dBA:	46	51
Heavy Trucks	80.26	-17.14	-3.91	-1.20	58.0	30.8	39.8	18.5	33.2	36.7	60 dBA:	100	109
		_		Total:	64.7	59.6	57.9	52.0	60.5	61.1	55 dBA:	215	235
Poad Name:	A-Lano C	ollector			Soam	ont.	Evictina I	Plus Project					
	4-Lane C			Vahiela Sn	ood: 20 MD	≠nit. ⊔			Poo		accification:	4 L ana (alloctor
Average Daily T								IX. I wiv. Long Dist:	RUa	uway Ci +)	Contorlino	Histopo	
	NC	Noice Adi	IEIERS A	I 92 FEEI				uiv. Larie Dist.	09.041	()	Noise Cont	Distance	÷ (0
Vahiala Tura	DEMEL			Einita Adi	Log Dook			Log Night	l do	CNEL	Noise Com		
	REIVIEL 62.51		2 01	Finite Auj	Ley Feak	Leq Day	Ley Eve.	Eeq Night	61.0		70 dBA+	22	
Automobiles	72.01	4.00	-3.91	-1.20	62.2	00.0 45.4	20.3	0Z.0 05.0	45.0	01.0		23	20
	73.11	-8.02	-3.91	-1.20	60.0	40.4	41.0	30.3	45.0	45.0		100	20
Heavy Trucks	80.26	-16.58	-3.91	-1.20	58.6	31.4	40.4	19.0	33.7	37.3	60 dBA:	109	119
				Total:	03.3	00.2	36.4	52.0	01.1	01.7	55 UBA.	234	237
Road Name:	4-Lane C	ollector			Seame	ent:	Cumulativ	ve Plus Proiec	t				
Average Daily T	raffic: 328	00 Vehicles		Vehicle Sp	eed: 30 MP	Н	Vehicle M	ix: 1	Roa	dway Cl	assification:	4-Lane C	ollector
	NC	ISE PARAN	IETERS A	T 92 FEET	FROM CEI	NTERLINE	(Ec	uiv. Lane Dist:	89.64 f	t)	Centerline	Distance	e to
		Noise Adj	ustments			Unn	nitigated N	loise Levels		,	Noise Cont	our (in f	eet)
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	62.51	4.83	-3.91	-1.20	62.2	60.1	58.3	52.5	61.0	61.6	70 dBA:	24	26
Medium Trucks	73.11	-8.00	-3.91	-1.20	60.0	45.4	41.8	35.3	45.1	45.6	65 dBA:	51	56
Heavy Trucks	80.26	-16.55	-3.91	-1.20	58.6	31.4	40.4	19.1	33.8	37.3	60 dBA:	109	120
		-		Total:	65.3	60.2	58.5	52.6	61.1	61.7	55 dBA:	235	258
Road Name:	3-l ano A	rtorial			Seam	ont.	Evistina						
	J-Lane A	lena			Jegina	5116.	LAIStilly					0.1	Artorial
Average Daily T	affic: 212	10 Vahiclas		Vahicla Sn	and 10 MP	н	Vahicla M	iv 2	Ro	wewhe	Classification	- X_I ONO	Altenal
	raffic: 2120	00 Vehicles		Vehicle Sp	eed: 40 MP		Vehicle M	ix: 2 wiv. Lane Dist:	Rc 74 54 f	adway (Centerline	: 3-Lane	a to
	raffic: 2120 NC	00 Vehicles DISE PARAN	IETERS A	Vehicle Sp T 77 FEET	eed: 40 MP FROM CEI		Vehicle M (Ec	ix: 2 juiv. Lane Dist: Joise Levels	Rc 74.54 f	adway (t)	Classification	Distance	et)
Vehicle Type	REMEL	00 Vehicles DISE PARAN Noise Adj Traffic Adi	IETERS A ustments	Vehicle Sp T 77 FEET	eed: 40 MP FROM CEI	H NTERLINE Unm	Vehicle M (Ec nitigated N	ix: 2 juiv. Lane Dist: loise Levels	Rc 74.54 f	t)	Classification Centerline Noise Cont	Distance Distance our (in f	e to eet)
Vehicle Type	REMEL	00 Vehicles DISE PARAN Noise Adj Traffic Adj.	1ETERS A ustments Dist Adj. -2 70	Vehicle Sp T 77 FEET Finite Adj	eed: 40 MP FROM CEI Leq Peak	H NTERLINE Unn Leq Day 63.0	Vehicle M (Ec nitigated N Leq Eve. 60.4	ix: 2 quiv. Lane Dist: loise Levels Leq Night 55.6	Rc 74.54 f Ldn 63 9	adway (t) CNEL	Classification Centerline Noise Cont	i: 3-Lane Distance our (in f Ldn 31	e to eet) CNEL 34
Vehicle Type Automobiles Medium Trucks	REMEL 67.36 76.31	00 Vehicles DISE PARAM Noise Adj Traffic Adj. 1.64 -13.01	IETERS A ustments Dist Adj. -2.70 -2.70	Vehicle Sp T 77 FEET Finite Adj -1.20 -1 20	eed: 40 MP FROM CEI Leq Peak 65.1 59 4	H NTERLINE Unn Leq Day 63.0 42 9	Vehicle M (Ec hitigated M Leq Eve. 60.4 39.4	ix: 2 quiv. Lane Dist: loise Levels Leq Night 55.6 34.6	Rc 74.54 f Ldn 63.9 43.4	adway (t) CNEL 64.4	Classification Centerline Noise Cont 70 dBA: 65 dBA	i: 3-Lane Distance our (in f Ldn 31 67	eto eet) CNEL 34 72
Vehicle Type Automobiles Medium Trucks Heavy Trucks	REMEL 67.36 81 16	00 Vehicles ISE PARAM Noise Adj Traffic Adj. 1.64 -13.01 -12 75	IETERS A ustments Dist Adj. -2.70 -2.70 -2.70	Vehicle Sp T 77 FEET Finite Adj -1.20 -1.20 -1.20	eed: 40 MP FROM CEI Leq Peak 65.1 59.4 64 5	H NTERLINE Unn Leq Day 63.0 42.9 48.3	Vehicle M (Ec hitigated M Leq Eve. 60.4 39.4 42 7	ix: 2 quiv. Lane Dist: loise Levels Leq Night 55.6 34.6 39 7	Rc 74.54 f Ldn 63.9 43.4 48.6	adway (t) CNEL 64.4 43.8 48.9	Classification Centerline Noise Cont 70 dBA: 65 dBA: 60 dBA	1: 3-Lane Distance our (in f Ldn 31 67 144	eto eet) CNEL 34 72 155

Scenario: Maximum Roadway Classification Volumes

Road Name:	3-Lane A	rterial			Segme	ent:	Existing	Plus Project					
Average Daily T	affic: 199	00 Vehicles		Vehicle Sp	eed: 40 MP	Ή	Vehicle M	ix: 2	Ro	adway (Classification	: 3-Lane	Arterial
	NO	ISE PARAM	ETERS A	Г 100 FEET	FROM CE	NTERLIN	E (E	quiv. Lane Dist:	94.58	ft)	Centerline	Distance	e to
		Noise Adj	ustments			Unr	nitigated I	Noise Levels			Noise Cont	our (in f	eet)
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	67.36	1.37	-4.26	-1.20	63.3	61.1	58.6	53.7	62.1	62.6	70 dBA:	31	33
Medium Trucks	76.31	-13.29	-4.26	-1.20	57.6	41.1	37.6	32.8	41.6	42.0	65 dBA:	66	71
Heavy Trucks	81.16	-13.02	-4.26	-1.20	62.7	46.5	40.9	37.9	46.7	47.0	60 dBA:	142	153
				Total:	66.6	61.3	58.7	53.9	62.3	62.8	55 dBA:	305	329
Road Name	3-l ane A	rterial			Seam	ont.	Cumulati	ve Plus Project					
Average Daily T	affic: 202	00 Vehicles		Vehicle Sn	eed: 40 MP	H	Vehicle M	ix: 2	Rc	adway (Classification	· 3-l ane	Arterial
Average Daily T	NO	ISE PARAM	ETERS AT	100 FFFT	FROM CF		F (F	auiv Lane Dist [.]	94.58	ft)	Centerline	Distance	e to
		Noise Adi	ustments	TIOUTEET		Unr	nitigated l	Noise Levels	04.00	10	Noise Cont	our (in f	eet)
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	67.36	1.43	-4.26	-1.20	63.3	61.2	58.6	53.8	62.2	62.7	70 dBA:	31	33
Medium Trucks	76.31	-13.22	-4.26	-1.20	57.6	41.2	37.6	32.9	41.6	42.1	65 dBA:	66	72
Heavy Trucks	81.16	-12.96	-4.26	-1.20	62.7	46.6	41.0	38.0	46.8	47.1	60 dBA:	143	154
		-		Total:	66.6	61.4	58.8	53.9	62.3	62.8	55 dBA:	308	332
Road Name	1-l ano A	rtorial			Soam	ant:	Existing						
	affic: 360			Vehicle Sn	ood: 45 MP		Vehicle M	iv: 2	Ro	adway (Classification	· 4-l ano	Artorial
Average Daily T	NO		ETERS AT		FROM CE		F (F	auiv Lane Dist [.]	94 58	ft)	Centerline	Distance	
		Noise Adi	ustments	TTOOTEET		Unr	nitigated l	Noise Levels	01.00	10	Noise Cont	our (in f	eet)
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	69.34	3.54	-4.26	-1.20	67.4	65.3	62.7	57.9	66.3	66.8	70 dBA:	57	62
Medium Trucks	77.62	-11.12	-4.26	-1.20	61.1	44.6	41.1	36.3	45.0	45.5	65 dBA:	124	133
Heavy Trucks	82.14	-10.85	-4.26	-1.20	65.8	49.7	44.1	41.1	49.9	50.2	60 dBA:	267	287
		_		Total:	70.3	65.4	62.8	58.0	66.4	66.9	55 dBA:	575	619
Road Name	4-I ane A	rterial			Seam	ent:	Existing	Plus Project					
Average Daily T	affic: 524	00 Vehicles		Vehicle Sp	eed [.] 45 MP	Ή	Vehicle M	ix: 2	Ro	adway (Classification	· 4-I ane	Arterial
<u></u>	NO	ISE PARAM	ETERS A	Г 100 FEET	FROM CE	NTERLIN	E (E	quiv. Lane Dist:	94.58	ft)	Centerline	Distance	e to
		Noise Adj	ustments			Unr	nitigated I	Noise Levels		/	Noise Cont	our (in f	eet)
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	69.34	5.06	-4.26	-1.20	68.9	66.8	64.3	59.4	67.8	68.3	70 dBA:	73	78
Medium Trucks	77.62	-9.59	-4.26	-1.20	62.6	46.1	42.6	37.8	46.6	47.0	65 dBA:	156	169
Heavy Trucks	82.14	-9.33	-4.26	-1.20	67.4	51.2	45.6	42.6	51.4	51.7	60 dBA:	337	363
				Total:	71.8	67.0	64.4	59.5	67.9	68.4	55 dBA:	726	782

Scenario: Maximum Roadway Classification Volumes

Road Name:	4-Lane A	rterial			Segme	ent:	Cumulati	ve Plus Projec	ct				
Average Daily T	raffic: 553	00 Vehicles		Vehicle Sp	eed: 45 MP	Н	Vehicle M	ix: 2	Ro	badway (Classificatio	n: 4-Lane	Arterial
	NO	ISE PARAN	IETERS A	T 100 FEET	FROM CE	NTERLIN	E (E	quiv. Lane Dis	t: 94.58	ft)	Centerline	Distance	e to
		Noise Ad	justments			Unn	nitigated I	Noise Levels			Noise Con	tour (in f	eet)
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	69.34	5.29	-4.26	-1.20	69.2	67.0	64.5	59.6	68.0	68.5	70 dBA:	75	81
Medium Trucks	77.62	-9.36	-4.26	-1.20	62.8	46.3	42.8	38.0	46.8	47.2	65 dBA:	162	175
Heavy Trucks	82.14	-9.10	-4.26	-1.20	67.6	51.4	45.8	42.8	51.6	51.9	60 dBA:	349	376
		-		Total:	72.0	67.2	64.6	59.8	68.1	68.6	55 dBA:	752	811
Road Name	4-I ane S	uner Arteri	al		Seame	nt.	Fxisting						
Average Daily T	raffic: 292	00 Vehicles		Vehicle Sn	eed: 50 MP	H	Vehicle M	ix:2 F	Roadway	/ Classifi	cation: 4-I a	ne Suner	Arterial
Twerage Daily T	NOI	SE PARAM	ETERS AT	110 FFFT	FROM CEI		· Children (Fr	nuiv Lane Dist	105.73	7 01000111 3 ft)	Centerline	Distance	e to
		Noise Ad	iustments	TIGTEET		Unn	nitigated I	Noise Levels	. 100.70	, , , , , , , , , , , , , , , , , , , ,	Noise Con	tour (in f	eet)
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	71.12	2.06	-4.98	-1.20	67.0	64.9	62.3	57.5	65.8	66.3	70 dBA:	59	64
Medium Trucks	78.79	-12.59	-4.98	-1.20	60.0	43.5	40.0	35.3	44.0	44.4	65 dBA:	127	137
Heavy Trucks	83.02	-12.33	-4.98	-1.20	64.5	48.3	42.8	39.7	48.6	48.9	60 dBA:	274	295
		-		Total:	69.5	65.0	62.4	57.6	65.9	66.4	55 dBA:	590	636
Poad Name:	1-Lana S	upor Artori	al		Soam	ont.	Evicting	Plue Project					
	affic: 522	00 Vehicles	ai	Vehicle Sn	and: 50 MP	ли. Ц		iv 2	Soadway	/ Classifi	cation: 4-La	na Sunar	
Average Daily T		SE PARAM	ETERS AT	124 FEFT	EROM CEN			nuiv Lane Dist	· 115 73	7 Classiii 8 ft)		Distance	
		Noise Ad	iustments			Unn	nitigated I	Noise Levels	. 110.70	,,	Noise Con	tour (in f	eet)
Vehicle Type	REMEL	Traffic Adi.	Dist Adi.	Finite Adi	Leg Peak	Leg Dav	Lea Eve.	Lea Niaht	Ldn	CNEL		Ldn	CNEL
Automobiles	71.12	4.59	-5.57	-1.20	68.9	66.8	64.2	59.4	67.8	68.3	70 dBA:	90	96
Medium Trucks	78.79	-10.07	-5.57	-1.20	62.0	45.5	42.0	37.2	45.9	46.4	65 dBA:	193	208
Heavy Trucks	83.02	-9.80	-5.57	-1.20	66.4	50.3	44.7	41.7	50.5	50.8	60 dBA:	416	448
		-		Total:	71.4	66.9	64.3	59.5	67.9	68.4	55 dBA:	895	965
Poad Name:	1-Lana S	upor Artori	al		Soam	ont.	Cumulati	vo Plus Projo	` +				
	4-Lane 3		ai	Vohiclo Sp	ood: 50 MP	511L. 凵	Vohiclo M	iv 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	/ Classifi	cation: 4-La	na Sunar	
Average Daily T		SE PARAM	ETERS AT					nuiv Lano Dist	· 115 73	7 Classiii 2 ft)	Contorlino	Distance	
		Noise Ad	iustments			Unn	 I hetenitin	Noise Levels	. 110.70	,,	Noise Con	tour (in f	eet)
Vehicle Type	REMEL	Traffic Adi.	Dist Adi.	Finite Adi	Leg Peak	Leg Dav	Lea Eve.	Lea Niaht	Ldn	CNEL		Ldn	CNEL
Automobiles	71.12	4.64	-5.57	-1.20	<u>69.0</u>	66.8	65.0	59.3	67.8	68.3	70 dBA:	89	97
Medium Trucks	78.79	-8.19	-5.57	-1.20	63.8	49.2	45.7	39.1	48.9	49.4	65 dBA:	191	209
Heavy Trucks	83.02	-16.74	-5.57	-1.20	59.5	32.3	41.3	20.0	34.7	38.2	60 dBA:	411	450
				Total:	70.5	66.9	65.1	59.3	67.8	68.4	55 dBA:	886	970

Scenario: Maximum Roadway Classification Volumes

Road Name:	6-Lane A	rterial			Segme	ent:	Existing						
Average Daily Tr	raffic: 6260	0 Vehicles		Vehicle Sp	eed: 45 MP	Н	Vehicle M	ix: 2	Ro	badway (Classificatio	n: 6-Lane	Arterial
	NOIS	SE PARAME	ETERS AT	124 FEET	FROM CEN	NTERLINE	E (Ed	quiv. Lane Dist:	115.73	B ft)	Centerline	Distance	e to
		Noise Adj	ustments			Unn	nitigated I	Noise Levels			Noise Cor	ntour (in f	eet)
Vehicle Type	REMELT	raffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	69.34	5.83	-5.57	-1.20	68.4	66.3	63.7	58.9	67.2	67.7	70 dBA:	83	89
Medium Trucks	77.62	-8.82	-5.57	-1.20	62.0	45.6	42.0	37.3	46.0	46.5	65 dBA:	178	192
Heavy Trucks	82.14	-8.56	-5.57	-1.20	66.8	50.6	45.1	42.0	50.9	51.2	60 dBA:	384	414
				Total:	71.2	66.4	63.8	59.0	67.4	67.9	55 dBA:	828	893
Road Name	6-l ano A	rtorial			Seamo	ont.	Existing I	Plus Project					
Average Daily T	raffic: 7520	0 Vehicles		Vehicle Sn	ood: 45 MP	н. Н		iv: 2	R	adway (Classificatio	n: 6-l ane	Arterial
Average Daily T	NOIS		TERS AT	124 FFFT	FROM CEI			nuiv Lane Dist	115 73	(ff)	Centerline	Distance	e to
	NOIC	Noise Adi	ustments			Unn	nitigated I	Noise Levels	110.70	, (()	Noise Cor	tour (in f	eet)
Vehicle Type	REMELT	raffic Adj.	Dist Adj.	Finite Adj	Leg Peak	Leg Day	Leg Eve.	Leg Night	Ldn	CNEL		Ldn	CNEL
Automobiles	69.34	6.63	-5.57	-1.20	69.2	67.1	64.5	59.7	68.0	68.5	70 dBA:	94	101
Medium Trucks	77.62	-8.02	-5.57	-1.20	62.8	46.3	42.8	38.1	46.8	47.3	65 dBA:	202	217
Heavy Trucks	82.14	-7.76	-5.57	-1.20	67.6	51.4	45.8	42.8	51.7	52.0	60 dBA:	434	468
		_		Total:	72.0	67.2	64.6	59.8	68.2	68.7	55 dBA:	936	1009
Road Name	6-Lane A	rterial			Seame	ent.	Cumulati	ve Plus Projec	ł				
Road Name: Average Daily T	6-Lane A	r terial 00 Vehicles		Vehicle Sp	Segme eed: 45 MP	ent: H	Cumulati Vehicle M	ve Plus Projec ix: 2	t Ro	nadway (Classificatio	n: 6-l ane	Arterial
Road Name: Average Daily Tr	6-Lane An raffic: 8140	r terial 00 Vehicles SE PARAME	ETERS AT	Vehicle Sp	Segme eed: 45 MP FROM CEI	ent: H NTERLINE	Cumulati Vehicle M	ve Plus Projec ix: 2 puiv. Lane Dist:	t Ro 115.73	oadway (s ft)	Classificatio	n: 6-Lane	Arterial
Road Name: Average Daily Tr	6-Lane A raffic: 8140 NOIS	rterial 00 Vehicles SE PARAME Noise Adi	ETERS AT	Vehicle Sp 124 FEET	Segme eed: 45 MP FROM CEI	ent: H NTERLINE Unn	Cumulati Vehicle M (Ec	ve Plus Projec ix: 2 quiv. Lane Dist: Noise Levels	t Ro 115.73	oadway (8 ft)	Classificatio	n: 6-Lane Distance	Arterial to eet)
Road Name: Average Daily Tr	6-Lane A raffic: 8140 NOIS	rterial 00 Vehicles 06 PARAME Noise Adj Traffic Adj.	ETERS AT ustments Dist Adj.	Vehicle Sp 124 FEET Finite Adj	Segme eed: 45 MP FROM CEI	ent: H NTERLINE Unn Leg Day	Cumulati Vehicle M (Ed nitigated I Leg Eve.	ve Plus Projec ix: 2 quiv. Lane Dist: Noise Levels Leg Night	t <u>Ro</u> 115.73 Ldn	oadway (3 ft) CNEL	Classificatio Centerline Noise Cor	n: 6-Lane Distance Itour (in f Ldn	Arterial to eet) CNEL
Road Name: Average Daily Tr Vehicle Type Automobiles	6-Lane A raffic: 8140 NOIS REMEL 1 69.34	rterial 00 Vehicles SE PARAME Noise Adj Traffic Adj. 6.97	ETERS AT ustments Dist Adj. -5.57	Vehicle Sp 124 FEET Finite Adj -1.20	Segme eed: 45 MP FROM CEI Leq Peak 69.5	ent: H NTERLINE Unn Leq Day 67.4	Cumulati Vehicle M (Ec nitigated I Leq Eve. 64.9	ve Plus Projec ix: 2 quiv. Lane Dist: Noise Levels Leq Night 60.0	t <u>Ro</u> 115.73 <u>Ldn</u> 68.4	oadway (3 ft) CNEL 68.9	Classificatio Centerline Noise Cor 70 dBA:	n: 6-Lane Distance Itour (in f Ldn 99	Arterial to eet) CNEL 106
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks	6-Lane A raffic: 8140 NOIS REMEL 1 69.34 77.62	rterial 00 Vehicles SE PARAME Noise Adj raffic Adj. 6.97 -7.68	ETERS AT ustments Dist Adj. -5.57 -5.57	Vehicle Sp 124 FEET Finite Adj -1.20 -1.20	Segme eed: 45 MP FROM CEI Leq Peak 69.5 63.2	ent: H NTERLINE Unn Leq Day 67.4 46.7	Cumulati Vehicle M (Ed nitigated I Leq Eve. 64.9 43.2	ve Plus Projec ix: 2 quiv. Lane Dist: Noise Levels Leq Night 60.0 38.4	t <u>115.73</u> <u>Ldn</u> 68.4 47.2	oadway (3 ft) CNEL 68.9 47.6	Classificatio Centerline Noise Cor 70 dBA: 65 dBA:	n: 6-Lane Distance Itour (in f Ldn 99 213	Arterial eto eet) CNEL 106 229
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks	6-Lane A raffic: 8140 NOIS REMEL 1 69.34 77.62 82.14	rterial 00 Vehicles SE PARAME Noise Adj Traffic Adj. 6.97 -7.68 -7.42	TERS AT ustments Dist Adj. -5.57 -5.57 -5.57 -5.57	Vehicle Sp 124 FEET Finite Adj -1.20 -1.20 -1.20	Segme eed: 45 MP FROM CEI Leq Peak 69.5 63.2 68.0	ent: H NTERLINE Unn Leq Day 67.4 46.7 51.8	Cumulati Vehicle M (Ec nitigated I Leq Eve. 64.9 43.2 46.2	ve Plus Projec ix: 2 quiv. Lane Dist: Noise Levels Leq Night 60.0 38.4 43.2	t 115.73 Ldn 68.4 47.2 52.0	2 5 5 2 3 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5	Classificatio Centerline Noise Cor 70 dBA: 65 dBA: 60 dBA:	en: 6-Lane Distance Itour (in f Ldn 99 213 458	Arterial e to eet) CNEL 106 229 494
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks	6-Lane A raffic: 8140 NOIS REMEL 1 69.34 77.62 82.14	rterial 00 Vehicles SE PARAME Noise Adj raffic Adj. 6.97 -7.68 -7.42	ETERS AT ustments Dist Adj. -5.57 -5.57 -5.57	Vehicle Sp 124 FEET Finite Adj -1.20 -1.20 -1.20 Total:	Segme eed: 45 MP FROM CEI Eeq Peak 69.5 63.2 68.0 72.4	ent: H NTERLINE Leq Day 67.4 46.7 51.8 67.6	Cumulati Vehicle M (Ed nitigated I Leq Eve. 64.9 43.2 46.2 64.9	ve Plus Projec ix: 2 quiv. Lane Dist: Noise Levels Leq Night 60.0 38.4 43.2 60.1	t 115.73 Ldn 68.4 47.2 52.0 68.5	oadway (8 ft) CNEL 68.9 47.6 52.3 69.0	Classification Centerline Noise Cor 70 dBA: 65 dBA: 60 dBA: 55 dBA:	n: 6-Lane Distance Itour (in f Ldn 99 213 458 987	Arterial e to eet) CNEL 106 229 494 1063
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks	6-Lane A raffic: 8140 NOIS REMEL 1 69.34 77.62 82.14	rterial 00 Vehicles SE PARAME Noise Adj Traffic Adj. 6.97 -7.68 -7.42	TERS AT ustments Dist Adj. -5.57 -5.57 -5.57	Vehicle Sp 124 FEET Finite Adj -1.20 -1.20 -1.20 Total:	Segme eed: 45 MP FROM CEN Leq Peak 69.5 63.2 68.0 72.4 Segme	ent: H NTERLINE Unn Leq Day 67.4 46.7 51.8 67.6	Cumulati Vehicle M (Ec nitigated I Leq Eve. 64.9 43.2 46.2 64.9 Fxisting	ve Plus Projec ix: 2 quiv. Lane Dist: Noise Levels Leq Night 60.0 38.4 43.2 60.1	t 115.73 Ldn 68.4 47.2 52.0 68.5	2 5 ft) CNEL 68.9 47.6 52.3 69.0	Classificatio Centerline Noise Cor 70 dBA: 65 dBA: 60 dBA: 55 dBA:	n: 6-Lane Distance itour (in f Ldn 99 213 458 987	Arterial e to eet) CNEL 106 229 494 1063
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks Road Name: Average Daily Tr	6-Lane A raffic: 8140 NOIS REMEL 1 69.34 77.62 82.14 Scenic A raffic: 2040	rterial 00 Vehicles E PARAME Noise Adj raffic Adj. 6.97 -7.68 -7.42 rterial 00 Vehicles	ETERS AT ustments Dist Adj. -5.57 -5.57 -5.57	Vehicle Sp 124 FEET Finite Adj -1.20 -1.20 -1.20 Total:	Segme eed: 45 MP FROM CEI Leq Peak 69.5 63.2 68.0 72.4 Segme eed: 40 MP	ent: H NTERLINE Unn Leq Day 67.4 46.7 51.8 67.6 ent: H	Cumulati Vehicle M (Ec nitigated I Leq Eve. 64.9 43.2 46.2 64.9 Existing Vehicle M	ve Plus Projec ix: 2 quiv. Lane Dist: Noise Levels Leq Night 60.0 38.4 43.2 60.1	t 115.73 Ldn 68.4 47.2 52.0 68.5	23 ft) CNEL 68.9 47.6 52.3 69.0	Classificatio Centerline Noise Cor 70 dBA: 65 dBA: 60 dBA: 55 dBA:	n: 6-Lane Distance tour (in f Ldn 99 213 458 987	Arterial eto eet) CNEL 106 229 494 1063
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks Road Name: Average Daily Tr	6-Lane A raffic: 8140 NOIS REMEL 1 69.34 77.62 82.14 Scenic A raffic: 2040	rterial 0 Vehicles E PARAME Noise Adj raffic Adj. 6.97 -7.68 -7.42 rterial 0 Vehicles E PARAME	ETERS AT ustments Dist Adj. -5.57 -5.57 -5.57	Vehicle Sp 124 FEET Finite Adj -1.20 -1.20 -1.20 Total: Vehicle Sp 122 FEET	Segme eed: 45 MP FROM CEI Leq Peak 69.5 63.2 68.0 72.4 Segme eed: 40 MP FROM CEI	ent: H NTERLINE Leq Day 67.4 46.7 51.8 67.6 ent: H NTERLINE	Cumulati Vehicle M (Ed nitigated I Leq Eve. 64.9 43.2 46.2 64.9 Existing Vehicle M	ve Plus Projec ix: 2 quiv. Lane Dist: Noise Levels Leq Night 60.0 38.4 43.2 60.1 ix: 2 puiv. Lane Dist:	t <u>115.73</u> <u>Ldn</u> 68.4 47.2 52.0 68.5 <u>Ro</u> 118.18	Dadway (8 ft) CNEL 68.9 47.6 52.3 69.0 Dadway Stt)	Classificatio Centerline Noise Cor 70 dBA: 65 dBA: 60 dBA: 55 dBA: Classificatio	n: 6-Lane Distance tour (in f Ldn 99 213 458 987 on: Scenic	Arterial eto eet) CNEL 106 229 494 1063 Arterial
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks Road Name: Average Daily Tr	6-Lane A raffic: 8140 NOIS REMEL 1 69.34 77.62 82.14 Scenic A raffic: 2040 NOIS	rterial 00 Vehicles E PARAME Noise Adj raffic Adj. 6.97 -7.68 -7.42 -7.42 rterial 00 Vehicles E PARAME Noise Adj	TERS AT ustments Dist Adj. -5.57 -5.57 -5.57 -5.57	Vehicle Sp 124 FEET Finite Adj -1.20 -1.20 -1.20 Total: Vehicle Sp 122 FEET	Segme eed: 45 MP FROM CEI Leq Peak 69.5 63.2 68.0 72.4 Segme eed: 40 MP FROM CEI	ent: H NTERLINE Unn Leq Day 67.4 46.7 51.8 67.6 ent: H NTERLINE Unn	Cumulati Vehicle M (Ec nitigated I Leq Eve. 64.9 43.2 46.2 64.9 Existing Vehicle M (Ec nitigated I	ve Plus Projec ix: 2 quiv. Lane Dist: Noise Levels Leq Night 60.0 38.4 43.2 60.1 ix: 2 quiv. Lane Dist: Noise Levels	t 115.73 Ldn 68.4 47.2 52.0 68.5 Re 118.18	badway (8 ft) CNEL 68.9 47.6 52.3 69.0 badway badway badway	Classificatio Centerline Noise Cor 70 dBA: 65 dBA: 60 dBA: 55 dBA: Classificatio Centerline Noise Cor	en: 6-Lane Distance tour (in f Ldn 99 213 458 987 on: Scenic Distance tour (in f	Arterial eto eet) CNEL 106 229 494 1063 Arterial eto eet)
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks Road Name: Average Daily Tr Vehicle Type	6-Lane A raffic: 8140 NOIS REMEL 1 69.34 77.62 82.14 Scenic A raffic: 2040 NOIS	rterial 00 Vehicles E PARAME Noise Adj raffic Adj. 6.97 -7.68 -7.42 rterial 00 Vehicles E PARAME Noise Adj raffic Adj.	TERS AT ustments Dist Adj. -5.57 -5.57 -5.57 ETERS AT ustments Dist Adj.	Vehicle Sp 124 FEET Finite Adj -1.20 -1.20 -1.20 Total: Vehicle Sp 122 FEET Finite Adj	Segme eed: 45 MP FROM CEI Leq Peak 69.5 63.2 68.0 72.4 Segme eed: 40 MP FROM CEI	ent: H NTERLINE Unn Leq Day 67.4 46.7 51.8 67.6 ent: H NTERLINE Unn Leq Day	Cumulati Vehicle M (Ec nitigated I Leq Eve. 64.9 43.2 46.2 64.9 Existing Vehicle M (Ec nitigated I Leq Eve.	ve Plus Projec ix: 2 quiv. Lane Dist: Noise Levels Leq Night 60.0 38.4 43.2 60.1 ix: 2 quiv. Lane Dist: Noise Levels Leq Night	t 115.73 Ldn 68.4 47.2 52.0 68.5 Ro 118.18 Ldn	badway (8 ft) CNEL 68.9 47.6 52.3 69.0 badway 8 ft) CNEL	Classificatio Centerline Noise Cor 70 dBA: 65 dBA: 60 dBA: 55 dBA: Classificatio Centerline Noise Cor	n: 6-Lane Distance tour (in f Ldn 99 213 458 987 on: Scenic Distance tour (in f Ldn	Arterial eto eet) CNEL 106 229 494 1063 Arterial eto eet) CNEL
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks Road Name: Average Daily Tr Vehicle Type Automobiles	6-Lane A raffic: 8140 NOIS REMEL 1 69.34 77.62 82.14 Scenic A raffic: 2040 NOIS REMEL 1 67.36	rterial 00 Vehicles E PARAME Noise Adji raffic Adj. 6.97 -7.68 -7.42 rterial 00 Vehicles E PARAME Noise Adj raffic Adj. 1.47	TERS AT ustments Dist Adj. -5.57 -5.57 -5.57 TERS AT ustments Dist Adj. -5.71	Vehicle Sp 124 FEET Finite Adj -1.20 -1.20 -1.20 Total: Vehicle Sp 122 FEET Finite Adj -1.20	Segme eed: 45 MP FROM CEI Leq Peak 69.5 63.2 68.0 72.4 Segme eed: 40 MP FROM CEI Eeq Peak 61.9	ent: H NTERLINE Unn Leq Day 67.4 46.7 51.8 67.6 ent: H NTERLINE Unn Leq Day 59.8	Cumulati Vehicle M (Ec nitigated I Leq Eve. 64.9 43.2 46.2 64.9 Existing Vehicle M (Ec nitigated I Leq Eve. 57.2	ve Plus Projec ix: 2 quiv. Lane Dist: Noise Levels Leq Night 60.0 38.4 43.2 60.1 ix: 2 quiv. Lane Dist: Noise Levels Leq Night 52.4	t 115.73 Ldn 68.4 47.2 52.0 68.5 Ro 118.18 Ldn 60.8	Deadway (8 ft) CNEL 68.9 47.6 52.3 69.0 Dadway 0 ft) CNEL 61.3	Classificatio Centerline Noise Cor 70 dBA: 65 dBA: 60 dBA: 55 dBA: Classificatio Centerline Noise Cor 70 dBA:	on: 6-Lane Distance tour (in f Ldn 99 213 458 987 on: Scenice Distance tour (in f Ldn 30	Arterial eto eet) CNEL 106 229 494 1063 Arterial eto eet) CNEL 33
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks	6-Lane A raffic: 8140 NOIS REMEL 1 69.34 77.62 82.14 Scenic A raffic: 2040 NOIS REMEL 1 67.36 76.31	rterial 0 Vehicles E PARAME Noise Adj raffic Adj. 6.97 -7.68 -7.42 rterial 0 Vehicles E PARAME Noise Adj raffic Adj. 1.47 -13.18	TERS AT ustments Dist Adj. -5.57 -5.57 -5.57 -5.57 TERS AT ustments Dist Adj. -5.71 -5.71	Vehicle Sp 124 FEET Finite Adj -1.20 -1.20 -1.20 Total: Vehicle Sp 122 FEET Finite Adj -1.20 -1.20 -1.20	Segme eed: 45 MP FROM CEI Leq Peak 69.5 63.2 68.0 72.4 Segme eed: 40 MP FROM CEI Eeq Peak 61.9 56.2	ent: H NTERLINE Unn Leq Day 67.4 46.7 51.8 67.6 ent: H NTERLINE Unn Leq Day 59.8 39.7	Cumulati Vehicle M (Ec nitigated I Leq Eve. 64.9 43.2 46.2 64.9 Existing Vehicle M Centigated I Leq Eve. 57.2 36.2	ve Plus Projec ix: 2 quiv. Lane Dist: Noise Levels Leq Night 60.0 38.4 43.2 60.1 ix: 2 quiv. Lane Dist: Noise Levels Leq Night 52.4 31.5	t 115.73 Ldn 68.4 47.2 52.0 68.5 Ro 118.18 Ldn 60.8 40.2	Dadway (8 ft) CNEL 68.9 47.6 52.3 69.0 Dadway 8 ft) CNEL 61.3 40.7	Classificatio Centerline Noise Cor 70 dBA: 65 dBA: 60 dBA: 55 dBA: Classificatio Centerline Noise Cor 70 dBA: 65 dBA:	en: 6-Lane Distance tour (in f 1dn 99 213 458 987 on: Scenic Distance tour (in f Ldn 30 65	Arterial eto eet) CNEL 106 229 494 1063 Arterial eto eet) CNEL 33 70
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks	6-Lane A raffic: 8140 NOIS REMEL 1 69.34 77.62 82.14 Scenic A raffic: 2040 NOIS REMEL 1 67.36 76.31 81.16	rterial 00 Vehicles E PARAME Noise Adj raffic Adj. 6.97 -7.68 -7.42 -7.42 rterial 00 Vehicles E PARAME Noise Adj raffic Adj. 1.47 -13.18 -12.91	TERS AT ustments Dist Adj. -5.57 -5.57 -5.57 -5.57 -5.71 ustments Dist Adj. -5.71 -5.71 -5.71 -5.71	Vehicle Sp 124 FEET Finite Adj -1.20 -1.20 -1.20 Total: Vehicle Sp 122 FEET Finite Adj -1.20 -1.20 -1.20 -1.20	Segme eed: 45 MP FROM CEI Leq Peak 69.5 63.2 68.0 72.4 Segme eed: 40 MP FROM CEI FROM CEI Leq Peak 61.9 56.2 61.3	ent: H NTERLINE Unn Leq Day 67.4 46.7 51.8 67.6 ent: H NTERLINE Unn Leq Day 59.8 39.7 45.2	Cumulati Vehicle M (Ec nitigated I Leq Eve. 64.9 43.2 46.2 64.9 Existing Vehicle M Vehicle M Leq Eve. 57.2 36.2 39.6	ve Plus Projec ix: 2 quiv. Lane Dist: Noise Levels Leq Night 60.0 38.4 43.2 60.1 ix: 2 quiv. Lane Dist: Noise Levels Leq Night 52.4 31.5 36.6	t Ro 115.73 Ldn 68.4 47.2 52.0 68.5 Ro 118.18 Ro 118.18 Ldn 60.8 40.2 45.4	Dadway (8 ft) CNEL 68.9 47.6 52.3 69.0 Dadway 8 ft) CNEL 61.3 40.7 45.7	Classificatio Centerline Noise Cor 70 dBA: 65 dBA: 60 dBA: 55 dBA: Classificatio Centerline Noise Cor 70 dBA: 65 dBA: 60 dBA: 60 dBA:	en: 6-Lane Distance tour (in f Ldn 99 213 458 987 on: Scenic Distance tour (in f Ldn 30 65 141	Arterial eto eet) CNEL 106 229 494 1063 Arterial eto eet) CNEL 33 70 151

Scenario: Maximum Roadway Classification Volumes

Road Name:	Scenic A	rterial			Segme	ent:	Existing	Plus Project					
Average Daily Tr	raffic: 3160	00 Vehicles		Vehicle Sp	eed: 40 MP	Н	Vehicle M	lix: 2	Ro	badway	Classificatio	on: Scenic	Arterial
	NOIS	SE PARAME	ETERS AT	122 FEET	FROM CEI	NTERLINE	E (Ed	quiv. Lane Dist:	117.64	ft)	Centerline	Distance	e to
		Noise Adj	ustments			Unn	nitigated I	Noise Levels			Noise Cor	ntour (in f	eet)
Vehicle Type	REMEL1	Fraffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	67.36	3.37	-5.68	-1.20	63.9	61.7	59.2	54.3	62.7	63.2	70 dBA:	41	44
Medium Trucks	76.31	-11.28	-5.68	-1.20	58.2	41.7	38.2	33.4	42.1	42.6	65 dBA:	88	95
Heavy Trucks	81.16	-11.01	-5.68	-1.20	63.3	47.1	41.5	38.5	47.3	47.6	60 dBA:	189	204
				Total:	67.2	61.9	59.3	54.5	62.9	63.3	55 dBA:	407	439
Road Name:	Scenic A	rterial			Seame	ent:	Cumulati	ve Plus Proiec	t				
Average Daily Tr	raffic: 3240	0 Vehicles		Vehicle Sp	eed: 40 MP	Н	Vehicle M	lix: 2	R	badway	Classificatio	on: Scenic	Arterial
<u>/</u>	NOIS	SE PARAME	ETERS AT	122 FEET	FROM CEI		(Ec	uiv. Lane Dist:	117.64	ft)	Centerline	Distance	e to
		Noise Adi	ustments			Unn	nitigated I	Noise Levels	_		Noise Cor	ntour (in f	eet)
Vehicle Type	REMEL 1	Fraffic Adj.	Dist Adj.	Finite Adj	Leg Peak	Leg Day	Leg Eve.	Leg Night	Ldn	CNEL		Ldn	CNEL
Automobiles	67.36	3.48	-5.68	-1.20	. 64.0	61.8	59.3	54.4	62.8	63.3	70 dBA:	41	45
Medium Trucks	76.31	-11.17	-5.68	-1.20	58.3	41.8	38.3	33.5	42.2	42.7	65 dBA:	89	96
Heavy Trucks	81.16	-10.91	-5.68	-1.20	63.4	47.2	41.6	38.6	47.4	47.7	60 dBA:	192	207
		_		Total:	67.3	62.0	59.4	54.6	63.0	63.4	55 dBA:	414	446
Road Name:	6-Lane E	xpressway			Segme	ent:	Existing						
Average Daily Tr	raffic: 7280	0 Vehicles		Vehicle Sp	eed: 50 MP	Н	Vehicle M	lix: 2	Roadwa	ay Class	ification: 6-	Lane Exp	ressway
	NOIS	SE PARAME	ETERS AT	110 FEET	FROM CEI	NTERLINE	E (Ed	quiv. Lane Dist:	104.13	ft)	Centerline	Distance	e to
		Noise Adj	ustments			Unn	nitigated I	Noise Levels			Noise Cor	ntour (in f	eet)
Vehicle Type	REMELT	Fraffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	71.12	6.03	-4.88	-1.20	71.1	68.9	66.4	61.5	69.9	70.4	70 dBA:	110	119
Medium Trucks	78.79	-8.62	-4.88	-1.20	64.1	47.6	44.1	39.3	48.1	48.5	65 dBA:	237	256
Heavy Trucks	83.02	-8.36	-4.88	-1.20	68.6	52.4	46.8	43.8	52.6	52.9	60 dBA:	511	551
				Total:	73.5	69.1	66.5	61.6	70.0	70.5	55 dBA:	1102	1188
Road Name:	6-Lane E	xpressway			Segme	ent:	Existing	Plus Project					
Average Daily Tr	raffic: 8810	0 Vehicles		Vehicle Sp	eed: 50 MP	Н	Vehicle M	lix: 2	Roadwa	ay Class	ification: 6-	Lane Exp	ressway
	NOIS	SE PARAME	ETERS AT	110 FEET	FROM CEI	NTERLINE	E (Ed	quiv. Lane Dist:	102.06	ft)	Centerline	Distance	e to
		Noise Adj	ustments			Unn	nitigated I	Noise Levels			Noise Cor	ntour (in f	eet)
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	71.12	6.86	-4.75	-1.20	72.0	69.9	67.3	62.5	70.9	71.4	70 dBA:	128	138
Medium Trucks	78.79	-7.79	-4.75	-1.20	65.0	48.6	45.0	40.3	49.0	49.5	65 dBA:	275	296
Heavy Trucks	83.02	-7.53	-4.75	-1.20	69.5	53.4	47.8	44.8	53.6	53.9	60 dBA:	593	639
				Tatal	74 5	70 0	67 /	62.6	71 0	71 5	55 dR∆∙	1077	1376

Scenario: Maximum Roadway Classification Volumes

Road Name:	6-Lane E	xpressway			Segme	ent:	Cumulati	ve Plus Projec [.]	t				
Average Daily T	affic: 914	00 Vehicles		Vehicle Sp	eed: 50 MP	H	Vehicle M	ix: 2	Roadwa	ay Class	ification: 6-	Lane Exp	ressway
	NOI	SE PARAME	ETERS AT	110 FEET	FROM CEI	NTERLINE	(Ed	quiv. Lane Dist:	102.06	i ft)	Centerline	e Distance	e to
		Noise Adj	ustments			Unn	nitigated I	Noise Levels			Noise Cor	ntour (in f	eet)
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	71.12	7.02	-4.75	-1.20	72.2	70.0	67.5	62.6	71.0	71.5	70 dBA:	131	141
Medium Trucks	78.79	-7.63	-4.75	-1.20	65.2	48.7	45.2	40.4	49.2	49.6	65 dBA:	282	304
Heavy Trucks	83.02	-7.37	-4.75	-1.20	69.7	53.5	47.9	44.9	53.7	54.0	60 dBA:	607	655
		_		Total:	74.7	70.2	67.6	62.7	71.1	71.6	55 dBA:	1308	1410
Road Name:	Scenic E	xpresswav			Seame	ent:	Existina						
Average Daily T	affic: 531	00 Vehicles		Vehicle Sp	eed: 50 MP	Н	Vehicle M	ix [.] 2	Roadw	av Class	sification: S	cenic Exp	resswav
riterage Baily II	NO	ISF PARAM	FTERS A	<u>Г 134 FFF</u>	FROM CF	NTERI INF	- (F	guiv Lane Dist	126.4	ft)	Centerline	Distance	e to
		Noise Adi	ustments			Unn	- (- hitigated l	Noise Levels		••/	Noise Cor	ntour (in f	eet)
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	71.12	4.66	-6.15	-1.20	68.4	66.3	63.7	58.9	67.3	67.8	70 dBA:	90	97
Medium Trucks	78.79	-9.99	-6.15	-1.20	61.5	45.0	41.5	36.7	45.4	45.9	65 dBA:	193	208
Heavy Trucks	83.02	-9.73	-6.15	-1.20	65.9	49.8	44.2	41.2	50.0	50.3	60 dBA:	416	448
		_		Total:	70.9	66.4	63.8	59.0	67.4	67.9	55 dBA:	896	966
Road Name	Scenic F	xnresswav			Seam	ent:	Fxisting	Plus Project					
Average Daily T	affic: 752	00 Vehicles		Vehicle Sn	eed: 50 MP	H	Vehicle M	ix 2	Roadw	av Class	sification: S	cenic Exp	resswav
<u>/ Holdge Daily 11</u>	NO	ISE PARAM	ETERS A	T 134 FEET	FROM CE		E (E	guiv. Lane Dist:	126.4	ft)	Centerline	e Distance	e to
	-	Noise Adj	ustments	-		Unn	nitigated I	Noise Levels	-		Noise Cor	ntour (in f	eet)
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leg Peak	Leg Day	Leg Eve.	Leg Night	Ldn	CNEL		Ldn	ĆNEL
Automobiles	71.12	6.17	-6.15	-1.20	69.9	67.8	65.3	60.4	68.8	69.3	70 dBA:	113	122
Medium Trucks	78.79	-8.48	-6.15	-1.20	63.0	46.5	43.0	38.2	46.9	47.4	65 dBA:	243	262
Heavy Trucks	83.02	-8.22	-6.15	-1.20	67.5	51.3	45.7	42.7	51.5	51.8	60 dBA:	524	565
-		_		Total:	72.4	67.9	65.3	60.5	68.9	69.4	55 dBA:	1130	1218
Deed News	Coonio F				Comm		C						
				Vahiala Cn	Segme	ent:		ve Plus Projec	Deedu		ification. C	oonio Evo	
Average Daily TI	anic. 849							IX. Z	KOadw		Contorline		ressway
	NU	Noise Adi	ETERS A				<u> </u>	quiv. Lane Dist.	120.4	11)	Centernine	Distance	
Vehicle Type	REMEL .	Traffic Adi	Dist Adi	Finite Adi	Log Poak			Lea Night	l dn	CNEL	NOISE COI		
Automobiles	71 10	6 70	_6 15	-1 20	2041 Cak 70 5	68 3	65 g	60 Q	60.3	60.8	70 dRA.	122	132
Medium Trucks	78 79	-7 95	-6.15	-1 20	63.5	47.0	43.5	38.7	47.5	47 Q	65 dBA	264	284
Heavy Trucks	10.13	1.55	0.10	1.20	00.0	0.17	-0.0	00.7	47.0	÷1.5		207	204
	83 02	-7 69	-6 15	-1 20	68.0	51.8	46 2	43.2	52.0	52.3	60 dBA	569	613
hoavy hadko	83.02	-7.69	-6.15	-1.20 Total	68.0 72-9	51.8 68.5	46.2 65.9	43.2 61.0	52.0 69.4	52.3 69.9	60 dBA: 55 dBA [·]	569 1225	613 1320

Scenario: Maximum Roadway Classification Volumes

Road Name:	SR-41 Free	eway			Segme	ent:	Existing						
Average Daily Tr	raffic: 76800) Vehicles		Vehicle Sp	eed: 65 MP	Н	Vehicle M	ix: 3	Roa	adway C	lassificatior	n: SR-41 F	reeway
	NOISI	e parame	TERS AT	150 FEET	FROM CEN	NTERLINE	(Ed	quiv. Lane Dist:	137.66	ft)	Centerline	Distance	e to
		Noise Adjı	ustments			Unn	nitigated I	Noise Levels			Noise Con	ntour (in f	eet)
Vehicle Type	REMEL Tr	affic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	75.54	5.20	-6.70	-1.20	72.8	70.2	69.4	65.3	72.8	73.3	70 dBA:	232	251
Medium Trucks	81.71	-10.60	-6.70	-1.20	63.2	44.1	42.7	42.4	49.1	49.3	65 dBA:	500	540
Heavy Trucks	85.21	-10.60	-6.70	-1.20	66.7	47.3	43.1	47.2	53.5	53.6	60 dBA:	1078	1164
				Total:	74.1	70.3	69.4	65.4	72.8	73.3	55 dBA:	2323	2508
Road Name:	SR-41 Free	eway			Segme	ent:	Existing I	Plus Project					
Average Daily Tr	raffic: 10430	00 Vehicles		Vehicle Sp	eed: 65 MP	H	Vehicle M	ix: 3	Roa	adway C	lassification	n: SR-41 F	reeway
	NOISI	e parame	TERS AT	150 FEET	FROM CEN	NTERLINE	(Ed	quiv. Lane Dist:	137.66	ft)	Centerline	Distance	e to
		Noise Adjı	ustments			Unn	nitigated I	Noise Levels			Noise Con	ntour (in f	eet)
Vehicle Type	REMEL Tr	affic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	75.54	6.53	-6.70	-1.20	74.2	71.6	70.7	66.6	74.1	74.6	70 dBA:	285	308
Medium Trucks	81.71	-9.27	-6.70	-1.20	64.5	45.5	44.1	43.7	50.4	50.7	65 dBA:	614	663
Heavy Trucks	85.21	-9.27	-6.70	-1.20	68.0	48.6	44.4	48.5	54.8	54.9	60 dBA:	1322	1427
				Total:	75.5	71.6	70.7	66.7	74.2	74.7	55 dBA:	2849	3075
D INI	00 44 5				•								
Road Name:	SR-41 Free	eway			Segme	ent:	Cumulati	ve Plus Projec	t			00.44	
Road Name: Average Daily Tr	SR-41 Free raffic: 10840	eway 00 Vehicles	TEDO AT	Vehicle Sp	Segme eed: 65 MP	ent: H	Cumulati Vehicle M	ve Plus Project ix: 3	t Roa	adway C	lassification	n: SR-41 F	reeway
Road Name: Average Daily Tr	SR-41 Free affic: 10840 NOISI	eway 00 Vehicles E PARAME	TERS AT	Vehicle Sp 150 FEET	Segme eed: 65 MP FROM CEI	ent: H NTERLINE	Cumulati Vehicle M (Ec	ve Plus Project ix: 3 quiv. Lane Dist:	t Roa 137.66	adway C ft)	Centerline	n: SR-41 F Distance	reeway e to
Road Name: Average Daily Tr	SR-41 Free affic: 10840 NOISI	eway 00 Vehicles E PARAME Noise Adj u	TERS AT	Vehicle Sp 150 FEET	Segme eed: 65 MP FROM CEN	ent: H NTERLINE Unn	Cumulati Vehicle M (Ec hitigated I	ve Plus Project ix: 3 quiv. Lane Dist: Noise Levels	t Roa 137.66	adway C ft)	lassificatior Centerline Noise Cor	n: SR-41 F Distance Itour (in fo	reeway e to eet)
Road Name: Average Daily Tr Vehicle Type	SR-41 Free raffic: 10840 NOISI REMEL Tr	eway D0 Vehicles E PARAME Noise Adju raffic Adj.	TERS AT Istments Dist Adj.	Vehicle Sp 150 FEET Finite Adj	Segme eed: 65 MP FROM CEN	ent: H NTERLINE Unn Leq Day	Cumulati Vehicle M (Ed hitigated I Leq Eve.	ve Plus Project ix: 3 quiv. Lane Dist: Noise Levels Leq Night	t Roa 137.66 Ldn	adway C ft) CNEL	Centerline	n: SR-41 F Distance Itour (in fe Ldn	Freeway e to eet) CNEL 216
Road Name: Average Daily Tr Vehicle Type Automobiles	SR-41 Free raffic: 10840 NOISI REMEL Tr 75.54 91 71	eway 00 Vehicles E PARAME Noise Adju affic Adj. 6.69	TERS AT ustments Dist Adj. -6.70 6.70	Vehicle Sp 150 FEET Finite Adj -1.20	Segme eed: 65 MP FROM CEN Leq Peak 74.3	ent: H NTERLINE Unn Leq Day 71.7	Cumulati Vehicle M (Ec hitigated I Leq Eve. 70.9	ve Plus Project ix: 3 quiv. Lane Dist: Noise Levels Leq Night 66.8 42.0	t 137.66 Ldn 74.3	adway C ft) CNEL 74.8	Centerline Noise Con 70 dBA:	n: SR-41 F Distance Itour (in f e Ldn 292 620	Freeway eto eet) CNEL 316
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks	SR-41 Free raffic: 10840 NOISI REMEL Tr 75.54 81.71 95.21	eway 00 Vehicles E PARAME Noise Adju raffic Adj. 6.69 -9.10	TERS AT ustments Dist Adj. -6.70 -6.70 6.70	Vehicle Sp 150 FEET Finite Adj -1.20 -1.20 1 20	Segma eed: 65 MP FROM CEN Leq Peak 74.3 64.7 68.2	ent: H NTERLINE Unn Leq Day 71.7 45.6	Cumulati Vehicle M (Ec hitigated I Leq Eve. 70.9 44.2	ve Plus Project ix: 3 quiv. Lane Dist: Noise Levels Leq Night 66.8 43.9 48.7	t 137.66 Ldn 74.3 50.6	adway C ft) CNEL 74.8 50.8	Centerline Noise Con 70 dBA: 65 dBA:	n: SR-41 F Distance itour (in f Ldn 292 630 1257	Freeway eto eet) CNEL 316 680
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks	SR-41 Free raffic: 10840 NOISI REMEL Tr 75.54 81.71 85.21	eway D0 Vehicles E PARAME Noise Adju raffic Adj. 6.69 -9.10 -9.10	TERS AT istments Dist Adj. -6.70 -6.70 -6.70	Vehicle Sp 150 FEET Finite Adj -1.20 -1.20 -1.20 Totol:	Segma eed: 65 MP FROM CEN Leq Peak 74.3 64.7 68.2 75 6	ent: H NTERLINE Unn Leq Day 71.7 45.6 48.8 71.8	Cumulati Vehicle M (Ec hitigated I Leq Eve. 70.9 44.2 44.6	ve Plus Project ix: 3 quiv. Lane Dist: Noise Levels Leq Night 66.8 43.9 48.7 66 9	t 137.66 Ldn 74.3 50.6 55.0	adway C ft) CNEL 74.8 50.8 55.1	Centerline Noise Con 70 dBA: 65 dBA: 60 dBA:	n: SR-41 F Distance Itour (in fe Ldn 292 630 1357 2923	Freeway eto eet) CNEL 316 680 1465 2155
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks	SR-41 Free raffic: 10840 NOISI REMEL Tr 75.54 81.71 85.21	eway 00 Vehicles E PARAME Noise Adju raffic Adj. 6.69 -9.10 -9.10	TERS AT Jstments Dist Adj. -6.70 -6.70 -6.70	Vehicle Sp 150 FEET Finite Adj -1.20 -1.20 -1.20 Total:	Segme eed: 65 MP FROM CEN Leq Peak 74.3 64.7 68.2 75.6	ent: H NTERLINE Leq Day 71.7 45.6 48.8 71.8	Cumulati Vehicle M (Ec hitigated I Leq Eve. 70.9 44.2 44.6 70.9	ve Plus Project ix: 3 quiv. Lane Dist: Noise Levels Leq Night 66.8 43.9 48.7 66.9	t 137.66 Ldn 74.3 50.6 55.0 74.3	adway C ft) CNEL 74.8 50.8 55.1 74.8	Centerline Noise Con 70 dBA: 65 dBA: 60 dBA: 55 dBA:	n: SR-41 F Distance tour (in for Ldn 292 630 1357 2923	Freeway e to eet) CNEL 316 680 1465 3155
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks Road Name:	SR-41 Free raffic: 10840 NOISI REMEL Tr 75.54 81.71 85.21 SR-180 Free	eway D0 Vehicles E PARAME Noise Adju affic Adj. 6.69 -9.10 -9.10 -9.10	TERS AT ustments Dist Adj. -6.70 -6.70 -6.70	Vehicle Sp 150 FEET Finite Adj -1.20 -1.20 -1.20 Total:	Segma eed: 65 MP FROM CEN Leq Peak 74.3 64.7 68.2 75.6 Segma	ent: H NTERLINE Unn Leq Day 71.7 45.6 48.8 71.8 ent:	Cumulati Vehicle M (Ec hitigated I Leq Eve. 70.9 44.2 44.6 70.9 Existing	ve Plus Project ix: 3 quiv. Lane Dist: Noise Levels Leq Night 66.8 43.9 48.7 66.9	t 137.66 Ldn 74.3 50.6 55.0 74.3	adway C ft) CNEL 74.8 50.8 55.1 74.8	Centerline Noise Con 70 dBA: 65 dBA: 60 dBA: 55 dBA:	n: SR-41 F Distance itour (in f Ldn 292 630 1357 2923	reeway eet) <u>CNEL</u> 316 680 1465 3155
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks Road Name: Average Daily Tr	SR-41 Free raffic: 10840 NOISI REMEL Tr 75.54 81.71 85.21 SR-180 Free raffic: 68740	eway D0 Vehicles E PARAME Noise Adju raffic Adj. 6.69 -9.10 -9.10 -9.10 0 Vehicles	TERS AT istments Dist Adj. -6.70 -6.70 -6.70	Vehicle Sp 150 FEET Finite Adj -1.20 -1.20 -1.20 Total: Vehicle Sp	Segma eed: 65 MP FROM CEN Leq Peak 74.3 64.7 68.2 75.6 Segma eed: 65 MP	ent: H NTERLINE Leq Day 71.7 45.6 48.8 71.8 ent: H	Cumulati Vehicle M (Ec hitigated I Leq Eve. 70.9 44.2 44.6 70.9 Existing Vehicle M	ve Plus Project ix: 3 quiv. Lane Dist: Noise Levels Leq Night 66.8 43.9 48.7 66.9	t 137.66 Ldn 74.3 50.6 55.0 74.3 Road	adway C ft) CNEL 74.8 50.8 55.1 74.8 74.8	Centerline Noise Con 70 dBA: 65 dBA: 60 dBA: 55 dBA:	n: SR-41 F Distance Itour (in f Ldn 292 630 1357 2923 SR-180 F	Freeway eet) CNEL 316 680 1465 3155
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks Road Name: Average Daily Tr	SR-41 Free raffic: 10840 NOISI REMEL Tr 75.54 81.71 85.21 SR-180 Free raffic: 68740 NOISI	eway 00 Vehicles E PARAME Noise Adju raffic Adj. 6.69 -9.10 -9.10 -9.10 0 Vehicles E PARAME	TERS AT Jstments Dist Adj. -6.70 -6.70 -6.70 -6.70	Vehicle Sp 150 FEET Finite Adj -1.20 -1.20 -1.20 Total: Vehicle Sp 190 FEET	Segma eed: 65 MP FROM CEN Leq Peak 74.3 64.7 68.2 75.6 Segma eed: 65 MP FROM CEN	ent: H NTERLINE Leq Day 71.7 45.6 48.8 71.8 ent: H	Cumulati Vehicle M (Ec hitigated I Leq Eve. 70.9 44.2 44.6 70.9 Existing Vehicle M	ve Plus Project ix: 3 quiv. Lane Dist: Noise Levels Leq Night 66.8 43.9 48.7 66.9 ix: 4	t <u>Roa</u> <u>Ldn</u> 74.3 50.6 55.0 74.3 Road 176.82	adway C ft) CNEL 74.8 50.8 55.1 74.8 dway Cla ft)	Centerline Noise Con 70 dBA: 65 dBA: 60 dBA: 55 dBA: 55 dBA:	n: SR-41 F Distance tour (in for Ldn 292 630 1357 2923 SR-180 F Distance	Freeway eet) CNEL 316 680 1465 3155 Freeway
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks Road Name: Average Daily Tr	SR-41 Free raffic: 10840 NOISI REMEL Tr 75.54 81.71 85.21 SR-180 Fre raffic: 68740 NOISI	eway 00 Vehicles E PARAME Noise Adju caffic Adj. 6.69 -9.10 -9.10 -9.10 20 Vehicles E PARAME Noise Adju	TERS AT Jist Ments Dist Adj. -6.70 -6.70 -6.70 -6.70 -5.70 -5.70 -5.70 -5.70	Vehicle Sp 150 FEET Finite Adj -1.20 -1.20 -1.20 Total: Vehicle Sp 190 FEET	Segme eed: 65 MP FROM CEN T4.3 64.7 68.2 75.6 Segme eed: 65 MP FROM CEN	ent: H NTERLINE Leq Day 71.7 45.6 48.8 71.8 71.8 ent: H NTERLINE Unn	Cumulatin Vehicle M (Ec hitigated I Leq Eve. 70.9 44.2 44.6 70.9 Existing Vehicle M (Ec hitigated I	ve Plus Project ix: 3 quiv. Lane Dist: Noise Levels Leq Night 66.8 43.9 48.7 66.9 ix: 4 quiv. Lane Dist: Noise Levels	t 137.66 Ldn 74.3 50.6 55.0 74.3 Road	adway C ft) CNEL 74.8 50.8 55.1 74.8 74.8 dway Cla ft)	Centerline Noise Con 70 dBA: 65 dBA: 60 dBA: 55 dBA: assification: Centerline Noise Con	n: SR-41 F Distance tour (in for Ldn 292 630 1357 2923 SR-180 F Distance tour (in for	Freeway eto eet) CNEL 316 680 1465 3155 Freeway eto eet)
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks Road Name: Average Daily Tr Vehicle Type	SR-41 Free affic: 10840 NOISI REMEL Tr 75.54 81.71 85.21 SR-180 Free caffic: 68740 NOISI REMEL Tr	eway D0 Vehicles E PARAME Noise Adju affic Adj. 6.69 -9.10 -9.10 -9.10 <u>eeway</u> D Vehicles E PARAME Noise Adju raffic Adj.	TERS AT Jist Adj. -6.70 -6.70 -6.70 -6.70 -5.70 Jist Adj.	Vehicle Sp 150 FEET Finite Adj -1.20 -1.20 -1.20 Total: Vehicle Sp 190 FEET Finite Adj	Segme eed: 65 MP FROM CEN Leq Peak 74.3 64.7 68.2 75.6 Segme eed: 65 MP FROM CEN	ent: H NTERLINE Unn Leq Day 71.7 45.6 48.8 71.8 71.8 ent: H NTERLINE Unn Leq Day	Cumulatin Vehicle M (Ed hitigated I Leq Eve. 70.9 44.2 44.6 70.9 Existing Vehicle M (Ed hitigated I Leq Eve.	ve Plus Project ix: 3 quiv. Lane Dist: Noise Levels Leq Night 66.8 43.9 48.7 66.9 ix: 4 quiv. Lane Dist: Noise Levels Leq Night	t 137.66 Ldn 74.3 50.6 55.0 74.3 Road 176.82 Ldn	adway C ft) CNEL 74.8 50.8 55.1 74.8 74.8 dway Cla ft) CNEL	Centerline Noise Con 70 dBA: 65 dBA: 60 dBA: 55 dBA: ssification: Centerline Noise Con	n: SR-41 F Distance tour (in for Ldn 292 630 1357 2923 SR-180 F Distance tour (in for Ldn	Freeway eet) CNEL 316 680 1465 3155 Freeway eto eet) CNEL
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks Road Name: Average Daily Tr Vehicle Type Automobiles	SR-41 Free raffic: 10840 NOISI REMEL Tr 75.54 81.71 85.21 SR-180 Free raffic: 68740 NOISI REMEL Tr 75.54	eway D0 Vehicles E PARAME Noise Adju raffic Adj. 6.69 -9.10 -9.10 -9.10 Vehicles E PARAME Noise Adju raffic Adj. 3.80	TERS AT Jist Ments Dist Adj. -6.70 -6.70 -6.70 TERS AT Jist Ments Dist Adj. -8.33	Vehicle Sp 150 FEET Finite Adj -1.20 -1.20 -1.20 Total: Vehicle Sp 190 FEET Finite Adj -1.20	Segma eed: 65 MP FROM CEN Leq Peak 74.3 64.7 68.2 75.6 Segma eed: 65 MP FROM CEN Leq Peak 69.8	ent: H NTERLINE Unn Leq Day 71.7 45.6 48.8 71.8 71.8 ent: H NTERLINE Leq Day 66.3	Cumulati Vehicle M (Ec hitigated I Leq Eve. 70.9 44.2 44.6 70.9 Existing Vehicle M (Ec hitigated I Leq Eve. 65.4	ve Plus Project ix: 3 quiv. Lane Dist: Noise Levels Leq Night 66.8 43.9 48.7 66.9 ix: 4 quiv. Lane Dist: Noise Levels Leq Night 61.3	t <u>Roa</u> <u>Ldn</u> 74.3 50.6 55.0 74.3 Road 176.82 <u>Ldn</u> 68.8	adway C ft) CNEL 74.8 50.8 55.1 74.8 74.8 dway Cla ft) CNEL 69.3	Centerline Noise Con 70 dBA: 65 dBA: 60 dBA: 55 dBA: assification: Centerline Noise Con 70 dBA:	n: SR-41 F Distance Itour (in fo Ldn 292 630 1357 2923 SR-180 F Distance Itour (in fo Ldn 250	Freeway eet) CNEL 316 680 1465 3155
Road Name: <u>Average Daily Tr</u> <u>Vehicle Type</u> Automobiles Medium Trucks Heavy Trucks Road Name: <u>Average Daily Tr</u> <u>Vehicle Type</u> Automobiles Medium Trucks	SR-41 Free affic: 10840 NOISI REMEL Tr 75.54 81.71 85.21 SR-180 Free affic: 68740 NOISI REMEL Tr 75.54 81.71	eway D0 Vehicles E PARAME Noise Adju caffic Adj. 6.69 -9.10 -9.10 -9.10 -9.10 E PARAME Noise Adju caffic Adj. 3.80 -8.22	TERS AT Jist Adj. -6.70 -6.70 -6.70 -6.70 STERS AT Jistments Dist Adj. -8.33 -8.33	Vehicle Sp 150 FEET Finite Adj -1.20 -1.20 -1.20 Total: Vehicle Sp 190 FEET Finite Adj -1.20 -1.20 -1.20	Segma eed: 65 MP FROM CEN Leq Peak 74.3 64.7 68.2 75.6 Segma eed: 65 MP FROM CEN Leq Peak 69.8 64.0	ent: H NTERLINE Unn Leq Day 71.7 45.6 48.8 71.8 71.8 ent: H NTERLINE Unn Leq Day 66.3 47.7	Cumulati Vehicle M (Ec hitigated I Leq Eve. 70.9 44.2 44.6 70.9 Existing Vehicle M (Ec hitigated I Leq Eve. 65.4 46.3	ve Plus Project ix: 3 quiv. Lane Dist: Noise Levels Leq Night 66.8 43.9 48.7 66.9 ix: 4 quiv. Lane Dist: Noise Levels Leq Night 61.3 46.0	t <u>Roa</u> <u>Ldn</u> 74.3 50.6 55.0 74.3 Road 176.82 <u>Ldn</u> 68.8 52.7	adway C ft) CNEL 74.8 50.8 55.1 74.8 dway Cla ft) CNEL 69.3 52.9	Centerline Noise Con 70 dBA: 65 dBA: 60 dBA: 55 dBA: 55 dBA: Centerline Noise Con 70 dBA: 65 dBA:	n: SR-41 F Distance tour (in for Ldn 292 630 1357 2923 SR-180 F Distance tour (in for Ldn 250 540	Freeway eet) CNEL 316 680 1465 3155 Freeway eto eet) CNEL 263 566
Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks Road Name: Average Daily Tr Vehicle Type Automobiles Medium Trucks Heavy Trucks	SR-41 Free raffic: 10840 NOISI REMEL Tr 75.54 81.71 85.21 SR-180 Fre raffic: 68740 NOISI REMEL Tr 75.54 81.71 85.21	eway D0 Vehicles E PARAME Noise Adju affic Adj. 6.69 -9.10 -9.10 -9.10 20 Vehicles E PARAME Noise Adju affic Adj. 3.80 -8.22 -2.47	TERS AT istments Dist Adj. -6.70 -6.70 -6.70 -6.70 STERS AT istments Dist Adj. -8.33 -8.33 -8.33 -8.33	Vehicle Sp 150 FEET Finite Adj -1.20 -1.20 -1.20 Total: Vehicle Sp 190 FEET Finite Adj -1.20 -1.20 -1.20 -1.20 -1.20 -1.20	Segme eed: 65 MP FROM CEN FROM CEN 74.3 64.7 68.2 75.6 Segme eed: 65 MP FROM CEN FROM CEN Leq Peak 69.8 64.0 73.2	ent: H NTERLINE Leq Day 71.7 45.6 48.8 71.8 71.8 ent: H NTERLINE Leq Day 66.3 47.7 62.4	Cumulati Vehicle M (Ec hitigated I Leq Eve. 70.9 44.2 44.6 70.9 Existing Vehicle M (Ec hitigated I Leq Eve. 65.4 46.3 58.2	ve Plus Project ix: 3 quiv. Lane Dist: Noise Levels Leq Night 66.8 43.9 48.7 66.9 ix: 4 quiv. Lane Dist: Noise Levels Leq Night 61.3 46.0 62.3	t <u>Roa</u> <u>Ldn</u> 74.3 50.6 55.0 74.3 Road 176.82 <u>Ldn</u> 68.8 52.7 68.6	adway C ft) CNEL 74.8 50.8 55.1 74.8 dway Cla ft) CNEL 69.3 52.9 68.7	Centerline Noise Con 70 dBA: 65 dBA: 60 dBA: 55 dBA: assification: Centerline Noise Con 70 dBA: 65 dBA: 60 dBA:	n: SR-41 F Distance tour (in for Ldn 292 630 1357 2923 SR-180 F Distance tour (in for Ldn 250 540 1162	Freeway eto eet) CNEL 316 680 1465 3155

Scenario: Maximum Roadway Classification Volumes

Road Name:	SR-180 F	reeway			Segme	ent:	Existing I	Plus Project					
Average Daily Ti	raffic: 9770	00 Vehicles		Vehicle Sp	eed: 65 MP	Н	Vehicle M	ix: 4	Road	dway Cla	assification:	SR-180 F	reeway
	NOIS	SE PARAME	ETERS AT	190 FEET	FROM CEI	NTERLINE	E (Ec	quiv. Lane Dist:	176.82	ft)	Centerline	Distance	e to
		Noise Adj	ustments			Unn	nitigated I	Noise Levels			Noise Con	tour (in f	eet)
Vehicle Type	REMEL1	Fraffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	75.54	5.33	-8.33	-1.20	71.3	67.8	67.0	62.9	70.4	70.9	70 dBA:	317	332
Medium Trucks	81.71	-6.70	-8.33	-1.20	65.5	49.3	47.9	47.6	54.2	54.5	65 dBA:	682	716
Heavy Trucks	85.21	-0.94	-8.33	-1.20	74.7	63.9	59.8	63.8	70.2	70.3	60 dBA:	1470	1542
				Total:	76.7	69.3	67.8	66.4	73.3	73.6	55 dBA:	3166	3322
Road Name:	SR-180 F	reewav			Seame	ent:	Cumulati	ve Plus Proiec	t				
Average Daily Tr	affic: 9970	0 Vehicles		Vehicle Sp	eed: 65 MP	Н	Vehicle M	ix: 4	Road	dwav Cla	assification:	SR-180 F	reewav
	NOIS	SE PARAME	ETERS AT	190 FEET	FROM CEI	NTERLINE	(Ec	uiv. Lane Dist:	176.82	ft)	Centerline	Distance	eto
		Noise Adj	ustments			Unn	nitigated I	Noise Levels		1	Noise Con	tour (in f	eet)
Vehicle Type	REMEL 1	Fraffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	75.54	5.42	-8.33	-1.20	71.4	67.9	67.0	62.9	70.5	71.0	70 dBA:	321	337
Medium Trucks	81.71	-6.61	-8.33	-1.20	65.6	49.3	47.9	47.6	54.3	54.6	65 dBA:	691	725
Heavy Trucks	85.21	-0.85	-8.33	-1.20	74.8	64.0	59.8	63.9	70.2	70.3	60 dBA:	1490	1563
		-		Total:	76.8	69.4	67.8	66.5	73.4	73.7	55 dBA:	3209	3367
Road Name:	SR-99 Fr	eeway			Segme	ent:	Existing						
Average Daily Tr	affic: 5810	00 Vehicles		Vehicle Sp	eed: 65 MP	Н	Vehicle M	ix: 5	Roa	adway C	lassification	: SR-99 F	reeway
	NOIS	SE PARAME	ETERS AT	120 FEET	FROM CEI	NTERLINE	E (Ed	quiv. Lane Dist:	113.32	ft)	Centerline	Distance	e to
		Noise Adj	ustments			Unn	nitigated I	Noise Levels			Noise Con	tour (in f	eet)
Vehicle Type	REMEL1	Fraffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	75.54	3.98	-5.43	-1.20	72.9	70.3	69.4	65.3	72.8	73.3	70 dBA:	187	202
Medium Trucks	81.71	-10.35	-5.43	-1.20	64.7	47.1	45.7	45.4	52.0	52.3	65 dBA:	403	435
Heavy Trucks	85.21	-14.03	-5.43	-1.20	64.5	42.9	38.7	42.8	49.1	49.2	60 dBA:	868	937
				Total:	74.0	70.3	69.4	65.4	72.9	73.4	55 dBA:	1870	2019
Road Name:	SR-99 Fre	eeway			Segme	ent:	Existing I	Plus Project					
Average Daily Tr	raffic: 9870	00 Vehicles		Vehicle Sp	eed: 65 MP	Н	Vehicle M	ix: 5	Roa	adway C	lassification	: SR-99 F	reeway
	NOIS	SE PARAME	ETERS AT	120 FEET	FROM CEI	NTERLINE	E (Ec	quiv. Lane Dist:	113.32	ft)	Centerline	Distance	e to
		Noise Adj	ustments			Unn	nitigated I	Noise Levels			Noise Con	tour (in f	eet)
Vehicle Type	REMEL 1	Fraffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	75.54	6.29	-5.43	-1.20	75.2	72.6	71.7	67.6	75.1	75.6	70 dBA:	266	287
Medium Trucks	81.71	-8.05	-5.43	-1.20	67.0	49.4	48.0	47.7	54.3	54.6	65 dBA:	574	619
Heavy Trucks	85.21	-11.73	-5.43	-1.20	66.8	45.2	41.0	45.1	51.4	51.5	60 dBA:	1236	1334
				Total:	76.3	72.6	71.7	67.7	75.2	75.7	55 dBA:	2662	2875

Scenario: Maximum Roadway Classification Volumes

Road Name:	SR-99 Fre	eeway			Segme	ent:	Cumulativ	ve Plus Projec	t				
Average Daily Tr	affic: 1041	00 Vehicles	6	Vehicle Sp	eed: 65 MP	Η	Vehicle M	ix: 5	Ro	adway C	Classification	n: SR-99 F	reeway
	NOIS	SE PARAME	ETERS AT	120 FEET	FROM CEI	NTERLINE	E (Ec	quiv. Lane Dist:	113.32	2 ft)	Centerline	Distance	e to
		Noise Adj	ustments			Unn	nitigated N	Noise Levels			Noise Con	tour (in f	eet)
Vehicle Type	REMELT	raffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	75.54	6.52	-5.43	-1.20	75.42	72.8	71.9	67.9	75.37	75.87	70 dBA:	276	298
Medium Trucks	81.71	-7.82	-5.43	-1.20	67.26	49.6	48.2	47.9	54.58	54.84	65 dBA:	594	642
Heavy Trucks	85.21	-11.50	-5.43	-1.20	67.08	45.4	41.3	45.3	51.66	51.77	60 dBA:	1280	1383
				Total:	76.56	72.84	71.97	67.93	75.42	75.92	55 dBA:	2758	2979
Road Name:	SR-168 F	reeway			Segme	ent:	Existing						
Average Daily Tr	affic: 5690	0 Vehicles		Vehicle Sp	eed: 65 MP	Η	Vehicle M	ix: 6	Roa	dwav Cla	assification:	SR-168 F	reewav
	NOIS	SE PARAME	ETERS AT	160 FEET	FROM CEI	NTERLINE	(Ec	uiv. Lane Dist:	148.51	ft)	Centerline	Distance	e to
		Noise Adj	ustments			Unn	nitigated N	voise Levels		,	Noise Con	tour (in f	eet)
Vehicle Type	REMELT	raffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	ĆNEL
Automobiles	75.54	3.66	-7.20	-1.20	70.80	68.0	67.1	63.0	70.51	71.02	70 dBA:	180	194
Medium Trucks	81.71	-6.54	-7.20	-1.20	66.78	53.1	51.7	51.4	58.00	58.27	65 dBA:	388	418
Heavy Trucks	85.21	-14.42	-7.20	-1.20	62.39	40.4	36.3	40.3	46.68	46.78	60 dBA:	835	901
-		_		Total:	72.68	68.10	67.22	63.31	70.77	71.26	55 dBA:	1800	1941
Road Name:	SR-168 F	reeway			Segme	ent:	Existing I	Plus Project					
Average Daily Tr	affic: 7560	0 Vehicles		Vehicle Sp	eed: 65 MP	Н	Vehicle M	ix: 6	Roa	dway Cla	assification:	SR-168 F	reeway
	NOIS	SE PARAME	ETERS AT	160 FEET	FROM CEI	NTERLINE	E (Ec	uiv. Lane Dist:	148.51	ft)	Centerline	Distance	e to
		Noise Adj	ustments			Unn	nitigated N	loise Levels			Noise Con	tour (in f	eet)
Vehicle Type	REMELT	raffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	75.54	4.89	-7.20	-1.20	72.04	69.2	68.3	64.2	71.75	72.25	70 dBA:	218	235
Medium Trucks	81.71	-5.30	-7.20	-1.20	68.01	54.3	52.9	52.6	59.24	59.50	65 dBA:	469	505
Heavy Trucks	85.21	-13.19	-7.20	-1.20	63.62	41.7	37.5	41.6	47.91	48.02	60 dBA:	1010	1089
				Total:	73.91	69.34	68.45	64.55	72.00	72.49	55 dBA:	2175	2345
Road Name:	SR-168 F	reeway			Segme	ent:	Cumulativ	ve Plus Projec	t				
Average Daily Tr	affic: 8690	0 Vehicles		Vehicle Sp	eed: 65 MP	Η	Vehicle M	ix: 6	Roa	dway Cla	assification:	SR-168 F	reeway
	NOIS	SE PARAME	ETERS AT	160 FEET	FROM CEI	NTERLINE	E (Ec	quiv. Lane Dist:	148.51	l ft)	Centerline	Distance	e to
		Noise Adj	ustments			Unn	nitigated N	Noise Levels			Noise Con	tour (in f	eet)
Vehicle Type	REMELT	raffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	75.54	5.50	-7.20	-1.20	72.64	69.8	68.9	64.8	72.35	72.86	70 dBA:	239	257
Medium Trucks	81.71	-4.70	-7.20	-1.20	68.62	54.9	53.5	53.2	59.84	60.11	65 dBA:	514	554
Heavy Trucks	85.21	-12.58	-7.20	-1.20	64.23	42.3	38.1	42.2	48.52	48.62	60 dBA:	1108	1195
				Total:	74.52	69.94	69.06	65.15	72.61	73.10	55 dBA:	2387	2574

F	HWA-RD-77-	108 HIGHV	VAY TRAFFIC	NOISE PREI	DICTIC	ON MOE	DEL	
Scenario:	Existina			Proiec	t Name:	Fresno	GP	
Road Type:	2-Lane Collector			Job I	Number:	316800	16	
51			NOISE MODEL IN	PUTS				
	Highway Data				Vehic	le Mix		
Avera	age Daily Traffic:	23.100 vehicl	es		Dav	Evenina	Niaht	Dailv
Pe	ak Hour Volume:	2,310 vehicl	es	Autos:	72.7%	12.1%	9.6%	94.4%
_	Vehicle Speed:	40 mph		Medium Trucks:	4.2%	0.5%	0.3%	4.9%
Near/Fa	r Lane Distance:	50 feet		Heavy Trucks:	0.2%	0.5%	0.0%	0.7%
	Site Dat	ta			Eleva	ations		
	Barrier	Height:	3 feet	Barrier Base E	levation:	0.0	feet	
	Barrier Type(Wall	/Berm): Wa	all	Road E	levation:	0.0	feet	-
Si	ite Conditions(Ha	rd/Soft): So	oft	Noise S	ource El	evation al	bove Ro	ad
Centerl	line (C.L.) Dist. to	Barrier: 6	62 feet		Autos:	0	feet	
C.L. Dist.	To Observer (Bad	ckyard): 7	72 feet	Med	Trucks:	2.3	feet	
Barrier Dist.	To Observer (Bad	ckyard): ´	10 feet	Hvy	/ Trucks:	8	feet	_
C.L. Dist.	To Observer (Str	ucture): 8	32 feet	Pad E	levation:	0.0	feet	
Barrier Dist.	To Observer (Str	ucture): 2	20 feet	Observe	er Height	ts Above I	Pad Elev	ation/
	Road		Exterior:	5	feet			
	Le	90 degrees	Fi	rst Floor:	5.5	feet		
	Rig	ht View:	0 degrees	Seco	nd Floor:	14	feet	
		FHWA M	NOISE MODEL CA	LCULATIONS				
						Barrie	er Attenu	uation
	REMEL	Traffic Flow	Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr
Autos:	67.36	2.06	-2.08	-1.20	0.00	-1.4	-3.8	0
Med Trucks:	76.31	-10.77	-2.08	-1.20	0.00	-0.74	-1.175	0
Hvy Trucks:	81.16	-19.32	-2.08	-1.20	0.00	-0.3	-0.3	0
		UNI	VITIGATED NOISE	E LEVELS				
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	.dn	CN	IEL
Autos:	66.1	64.0	62.2	56.4	6	4.9	65	5.5
Med Trucks:	62.3	47.7	44.1	37.6	4	7.3	47	7.8
Hvy Trucks:	58.6	31.4	40.4	19.0	3	3.7	3	7.3
I raffic Noise:	68.1	64.1	62.3	56.5	6	5.0	6:	0.6
		M	TIGATED NOISE	LEVELS				
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	.dn	CN	IEL
Autos:	64.7	62.6	60.8	55.0	6	3.5	64	4.1
Med Trucks:	61.5	46.9	43.4	36.8	4	6.6	47	7.1
Hvy Trucks:	58.3	31.1	40.1	18.7	3	3.4	37	7.0
I raffic Noise:	67.1	62.7	60.9	55.1	6	3.6	64	4.2

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL										
Scenario:	Existing Plus Pro	oiect			Project Name: Fresno GP						
Road Type:	2-Lane Collector				Job N	Number:	31	680016			
51			NOISE		PUTS						
	Highway Data		NOIGE			Vohio	olo Mix				
Aver	age Daily Traffic:	27 700 ve	hicles			Dav	Evening	Night	Daily		
Pe	ak Hour Volume:	2 770 ve	ehicles		Autos:	72 7%	12.1%	9.6%	94 4%		
1 0	Vehicle Speed:	40 mi	nh		Medium Trucks:	4.2%	0.5%	0.3%	4.9%		
Near/Fa	r Lane Distance:	23 fee	et		Heavy Trucks:	0.2%	0.5%	0.0%	0.7%		
	Site Dat	ta			Flevations						
	Barrier	Height:	3 feet		Barrier Base E	levation:	0.0	feet			
	Barrier Type(Wal	l/Berm):	Wall		Road E	levation:	0.0	feet	-		
Si	ite Conditions(Ha	rd/Soft):	Soft		Noise S	ource El	evation al	ove Ro	ad		
Centerl	line (C.L.) Dist. to	Barrier:	62 feet			Autos:	0	feet			
C.L. Dist.	To Observer (Ba	ckyard):	72 feet		Med	Trucks:	2.3	feet			
Barrier Dist.	To Observer (Ba	ckyard):	10 feet		Hvy	Trucks:	8	feet			
C.L. Dist.	To Observer (Str	ucture):	82 feet		Pad E	levation:	0.0	feet	-		
Barrier Dist. To Observer (Structure): 20 feet					Observer Heights Above Pad Elevation						
Road Grade: 0.00 %						Exterior:	5	feet			
Left View: -90 degrees					Fir	st Floor:	5.5	feet			
	Rig	ht View:	90 degre	es	Secor	nd Floor:	14	feet			
		FHW	VA NOISE N	IODEL CA	LCULATIONS						
							Barrie	er Attenu	ation		
	REMEL	Traffic F	Flow D	istance	Finite Road	Grade	Exterior	1st Flr	2nd Flr		
Autos:	67.36	2.85	, ,	-2.41	-1.20	0.00	-1.4	-3.8	0		
Med Trucks:	76.31	-9.98	3	-2.41	-1.20	0.00	-0.74	-1.175	0		
Hvy Trucks:	81.16	-18.53	3	-2.41	-1.20	0.00	-0.3	-0.3	0		
			UNMITIGA	ED NOISI	E LEVELS						
	Leq Peak Hour	Leq Da	ay Leo	Evening	Leq Night		.dn	CN	IEL		
Autos:	66.5	64.3	•	62.5	56.8	6	5.3	65	5.8		
Med Trucks:	62.7	48.1		44.6	38.0	4	7.8	48	3.3		
Hvy Trucks:	59.0	31.8		40.9	19.5	34	4.2	37	7.7		
Traffic Noise:	68.5	64.4		62.6	56.8	6	5.3	65	5.9		
			MITIGATE	D NOISE	LEVELS						
	Leq Peak Hour	Leq Da	ay Leo	Evening	Leq Night	L	.dn	CN	IEL		
Autos:	65.2	63.0		61.3	55.5	6	4.0	64	1.5		
Med Trucks:	62.0	47.4		43.8	37.3	4	7.0	47	7.6		
Hvy Trucks:	58.7	31.5		40.6	19.2	3	3.9	37	7.4		
Traffic Noise:	67.5	63.1		61.4	55.5	6	4.1	64	4.6		

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL										
Scenario:	Cumulative Plus	Project		Projec	t Name:	Fresno	GP				
Road Type:	2-Lane Collector			Job	Number:	31	680016				
			NOISE MODEL IN	NPUTS							
	Highway Data				Vehic	le Mix					
Avera	age Daily Traffic:	29,900 vehi	cles		Day	Evening	Night	Daily			
Pe	ak Hour Volume:	2,990 vehi	cles	Autos:	72.7%	12.1%	9.6%	94.4%			
	Vehicle Speed:	40 mph	I	Medium Trucks:	4.2%	0.5%	0.3%	4.9%			
Near/Fa	r Lane Distance:	23 feet		Heavy Trucks: 0.2% 0.5% 0.0% 0.7%							
	Site Da	ta			Eleva	ations					
	Barrier	Height:	3 feet	Barrier Base E	levation:	0.0	feet	_			
	Barrier Type(Wal	l/Berm): V	Vall	Road E	levation:	0.0	feet				
S	ite Conditions(Ha	rd/Soft): S	Soft	Noise S	Source El	evation al	bove Ro	ad			
Centeri	ine (C.L.) Dist. to	Barrier:	62 feet	N4-	Autos:	0	teet				
C.L. DISt.	To Observer (Ba	ckyard):	72 feet	IVIEC		2.3	teet				
Barrier Dist.	To Observer (Ba	ckyard):	10 feet		/ I rucks:	8	feet	-			
C.L. DISL Parriar Dist	To Observer (Str	ucture):	82 leel	Observer Heights Above Pad Elevation							
Damer Dist.	TO Observer (Su	ucture). I Grado: C		Observ	Evtorior:		foot	alion			
		ft View:	Fi	ret Floor:	55	foot					
	Ria	ht View:	90 degrees	Seco	nd Floor:	14	feet				
	Tig	ne view.				17	1001				
		FHWA	NOISE MODEL CA	ALCULATIONS		Porrie	or Atton	untion			
	REME	Traffic Flo	M Distance	Finite Road	Grade	Evterior	1et Flr	2nd Flr			
Autos:	67.36	3 18	-2 41	-1 20	0.00	-1 4	-3.8	0			
Med Trucks:	76.31	-9.65	-2 41	-1 20	0.00	-0.74	-1 175	0			
Hvy Trucks:	81.16	-18.20	-2.41	-1.20	0.00	-0.3	-0.3	0			
		U	MITIGATED NOIS	E LEVELS							
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	dn	CN	NEL			
Autos:	66.8	64.7	62.9	57.1	6	5.6	6	6.2			
Med Trucks:	63.1	48.5	44.9	38.4	48	8.1	48	8.6			
Hvy Trucks:	59.3	32.2	41.2	19.8	34	4.5	38	8.0			
Traffic Noise:	68.9	64.8	63.0	57.2	6	5.7	6	6.3			
		I	MITIGATED NOISE	LEVELS							
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	dn	CN	NEL			
Autos:	65.5	63.4	61.6	55.8	64	4.3	64	4.9			
Med Trucks:	62.3	47.7	44.1	37.6	4	7.4	4	7.9			
Hvy Trucks:	59.0	31.9	40.9	19.5	34	4.2	3	7.7			
Traffic Noise:	67.8	63.5	61.7	55.9	64	4.4	6	5.0			

F	HWA-RD-77-	<u>108 HI</u>	GHWA	AY TRAFFIC	NOISE PREI		ON MOE	DEL	
Scenario:	Existing				Projec	t Name:	Fresno	GP	
Road Type:	4-Lane Collector				Job I	Number:	31	680016	
			N	DISE MODEL IN	PUTS				
	Highway Data					Vehic	le Mix		
Avera	age Daily Traffic:	28.600	vehicles			Dav	Evenina	Niaht	Daily
Pea	ak Hour Volume:	2,860	vehicles		Autos:	72.7%	12.1%	9.6%	94.4%
	Vehicle Speed:	30	mph		Medium Trucks:	4.2%	0.5%	0.3%	4.9%
Near/Fa	r Lane Distance:	43	feet		Heavy Trucks:	0.2%	0.5%	0.0%	0.7%
	Site Dat	a				Eleva	ations		
	Barrier	Height:	0	feet	Barrier Base E	levation:	0.0	feet	
	Barrier Type(Wall	/Berm):	Wall		Road E	levation:	0.0	feet	-
Si	ite Conditions(Ha	rd/Soft):	Soft		Noise S	ource El	evation al	oove Ro	ad
Centerl	ine (C.L.) Dist. to	Barrier:	82	feet		Autos:	0	feet	
C.L. Dist.	To Observer (Bad	ckyard):	92	feet	Med	Trucks:	2.3	feet	
Barrier Dist.	To Observer (Bad	ckyard):	10	feet	Hvy	/ Trucks:	8	feet	-
C.L. Dist.	To Observer (Str	ucture):	102	feet	Pad E	levation:	0.0	feet	
Barrier Dist.	To Observer (Str	ucture):	20	feet	Observe	er Height	ts Above I	-ad Elev	ation
Road Grade: 0.00 %					F :	Exterior:	5	reet	
Left View: -90 de Right View: 90 de				degrees	FI	St Floor:	5.5	feet	
	Rigi	it view.	90	degrees	Seco	IU FIUUI.	14	ieel	
		Fŀ	IWA NO	ISE MODEL CA	LCULATIONS				
	DEME	Troffic	F law	Distance	Finite Deed	Quada	Barrie	er Attenu	
Autoc	REMEL			Distance		Grade	Exterior	1St FIF	
Med Trucks:	73 11	-8	24 59	-3.90	-1.20	0.00	0	-0.103	0
Hvv Trucks:	80.26	-17	.14	-3.90	-1.20	0.00	0	0.110	0
	00.20					0.00			0
	Lea Peak Hour	De l	Dav	Lea Evenina	Lea Night	1	dn	CN	IEI
Autos:	61 6	59	0.5	57 7	51.9	6	0.4	6	
Med Trucks:	59.4	44	.8	41.3	34.7	4	4.5	45	5.0
Hvy Trucks:	58.0	30	.8	39.8	18.5	3	3.2	36	6.7
Traffic Noise:	64.7	59	.6	57.9	52.0	6	0.5	6	1.1
			міті	GATED NOISE	LEVELS				
	Leg Peak Hour	Leq	Day	Leg Evening	Leg Night	L	dn	CN	IEL
Autos:	61.6	59).5	57.7	51.9	6	0.4	6	1.0
Med Trucks:	59.4	44	.8	41.3	34.7	4	4.5	45	5.0
Hvy Trucks:	58.0	30	.8	39.8	18.5	3	3.2	36	6.7
Traffic Noise:	64.7	59	.6	57.9	52.0	6	0.5	6′	1.1

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL										
Scenario:	Existing Plus Pro	piect			Project Name: Fresno GP						
Road Type:	4-Lane Collector				Job	Number	31	680016			
51			NOISE		IPUTS						
	Highway Data		NOIDE	MODELIN		Vohi	olo Mix				
Aver	age Daily Traffic:	32 600 V	ehicles			Dav	Evening	Night	Daily		
Pe	ak Hour Volume:	3 260 V	ehicles		Autos	72 7%	12 1%	9.6%	94 4%		
10	Vehicle Speed:	30 m	noh		Medium Trucks	4.2%	0.5%	0.3%	4.9%		
Near/Fa	r Lane Distance:	43 fe	et		Heavy Trucks	0.2%	0.5%	0.0%	0.7%		
	Site Dat	ta			Flevations						
	Barrier	Height:	0 feet		Barrier Base Flevation: 0.0 feet						
	Barrier Type(Wal	/Berm):	Wall		Road E	levation	0.0	feet	-		
S	ite Conditions(Ha	rd/Soft):	Soft		Noise S	Source El	evation al	oove Ro	ad		
Center	line (C.L.) Dist. to	Barrier:	82 feet			Autos:	0	feet			
C.L. Dist.	To Observer (Ba	ckyard):	92 feet		Me	d Trucks:	2.3	feet			
Barrier Dist.	To Observer (Ba	ckyard):	10 feet		Hv	y Trucks:	8	feet			
C.L. Dist.	To Observer (Str	ucture):	102 feet		Pad E	levation:	0.0	feet	-		
Barrier Dist. To Observer (Structure): 20 feet					Observer Heights Above Pad Elevation						
	Road			Exterior	5	feet					
Left View: -90 degrees					Fi	rst Floor:	5.5	feet			
	Rig	ht View:	90 degr	ees	Seco	nd Floor:	14	feet			
		FHV	WA NOISE	MODEL CA	LCULATIONS						
							Barrie	er Attenu	uation		
	REMEL	Traffic F	Flow [Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr		
Autos:	62.51	4.80)	-3.90	-1.20	0.00	0	-0.183	0		
Med Trucks:	73.11	-8.02	2	-3.90	-1.20	0.00	0	-0.119	0		
Hvy Trucks:	80.26	-16.5	58	-3.90	-1.20	0.00	0	0	0		
			UNMITIGA	TED NOIS	E LEVELS						
	Leq Peak Hour	Leq D	ay Le	q Evening	Leq Night	L	.dn	CN	IEL		
Autos:	62.2	60.0)	58.3	52.5	6	1.0	61	1.6		
Med Trucks:	60.0	45.4	4	41.8	35.3	4	5.0	45	5.6		
Hvy Trucks:	58.6	31.4	1	40.4	19.0	3	3.7	37	7.3		
Traffic Noise:	65.3	60.2	2	58.4	52.6	6	1.1	61	1.7		
			MITIGAT	ED NOISE	LEVELS						
	Leq Peak Hour	Leq D	ay Le	q Evening	Leq Night	L	.dn	CN	IEL		
Autos:	62.2	60.0)	58.3	52.5	6	1.0	61	1.6		
Med Trucks:	60.0	45.4	4	41.8	35.3	4	5.0	45	5.6		
Hvy Trucks:	58.6	31.4	1	40.4	19.0	3	3.7	37	7.3		
Traffic Noise:	65.3	60.2	2	58.4	52.6	6	1.1	61	1.7		

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL									
Scenario:	Cumulative Plus	Project		Project Name: Fresno GP						
Road Type:	4-Lane Collector	, , , , , , , , , , , , , , , , , , ,		Job N	umber:	31	680016			
		N	OISE MODEL IN	PUTS						
	Highway Data				Vehic	le Mix				
Avera	age Daily Traffic:	32.800 vehicles	1		Dav	Evenina	Niaht	Dailv		
Pe	ak Hour Volume:	3,280 vehicles		Autos:	72.7%	12.1%	9.6%	94.4%		
	Vehicle Speed:	30 mph		Medium Trucks:	4.2%	0.5%	0.3%	4.9%		
Near/Fa	r Lane Distance:	43 feet		Heavy Trucks:	0.2%	0.5%	0.0%	0.7%		
	Site Da	ta		Elevations						
	Barrier	Height: 0	feet	Barrier Base E	levation:	0.0	feet			
	Barrier Type(Wal	l/Berm): Wall		Road E	levation:	0.0	feet	-		
S	ite Conditions(Ha	rd/Soft): Soft		Noise S	ource El	evation al	oove Ro	ad		
Center	line (C.L.) Dist. to	Barrier: 82	feet		Autos:	0	feet			
C.L. Dist.	To Observer (Ba	ckyard): 92	feet	Med	Trucks:	2.3	feet			
Barrier Dist.	To Observer (Ba	ckyard): 10	feet	Hvy	Trucks:	8	feet	_		
C.L. Dist.	To Observer (Str	ucture): 102	feet	Pad E	levation:	0.0	feet			
Barrier Dist.	To Observer (Str	ucture): 20	feet	Observe	er Height	s Above I	Pad Elev	/ation		
	Road	Grade: 0.00	%		Exterior:	5	feet			
	Le	degrees	Fir	st Floor:	5.5	feet				
	Rig	ht View: 90	degrees	Secor	nd Floor:	14	feet			
		FHWA NC	ISE MODEL CA	LCULATIONS						
						Barrie	er Attenu	uation		
	REMEL	Traffic Flow	Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr		
Autos:	62.51	4.83	-3.90	-1.20	0.00	0	-0.183	0		
Med Trucks:	73.11	-8.00	-3.90	-1.20	0.00	0	-0.119	0		
Hvy Trucks:	80.26	-16.55	-3.90	-1.20	0.00	0	0	0		
		UNMI	TIGATED NOISE	E LEVELS						
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	dn	CN	NEL		
Autos:	62.2	60.1	58.3	52.5	6	1.0	6	1.6		
Med Trucks:	60.0	45.4	41.9	35.3	4	5.1	45	5.6		
Hvy Trucks:	58.6	31.4	40.4	19.1	3	3.8	37	7.3		
Traffic Noise:	65.3	60.2	58.5	52.6	6	1.1	6	1.7		
		MITI	GATED NOISE	LEVELS						
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	dn	CN	NEL		
Autos:	62.2	60.1	58.3	52.5	6	1.0	6	1.6		
Med Trucks:	60.0	45.4	41.9	35.3	4	5.1	45	5.6		
Hvy Trucks:	58.6	31.4	40.4	19.1	3	3.8	37	7.3		
Traffic Noise:	65.3	60.2	58.5	52.6	6	1.1	61	1.7		

F	HWA-RD-77-	108 HIGH	IWAY T	RAFFIC		PRED		<u>on moe</u>	DEL		
Scenario:	Existina					Proiect	Name:	Fresno	GP		
Road Type:	3-Lane Arterial					Job N	lumber:	31	680016		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			NOISE		IPUTS						
	Highway Data		NOIOL				Vehic	le Mix			
Avera	age Daily Traffic:	21.200 veh	icles				Dav	Evenina	Niaht	Daily	
Pea	ak Hour Volume:	2.120 veh	icles			Autos:	73.3%	10.2%	10.0%	93.4%	
	Vehicle Speed:	40 mpł	h		Medium	Trucks:	2.7%	0.3%	0.3%	3.2%	
Near/Fa	r Lane Distance:	40 feet	t		Heavy	Trucks:	2.9%	0.2%	0.3%	3.4%	
	Site Dat	ta			Elevations						
	Barrier	Height:	0 feet		Barrier	Base El	evation:	0.0	feet		
	Barrier Type(Wall	l/Berm):	Wall		-	Road El	evation:	0.0	feet	-	
Si	ite Conditions(Ha	rd/Soft):	Soft			Noise So	ource El	evation al	oove Ro	ad	
Centerl	ine (C.L.) Dist. to	Barrier:	67 feet				Autos:	0	feet		
C.L. Dist.	To Observer (Bad	ckyard):	77 feet			Med	Trucks:	2.3	feet		
Barrier Dist.	To Observer (Ba	ckyard):	10 feet		-	Hvy	Trucks:	8	feet	-	
C.L. Dist.	To Observer (Str	ucture):	87 feet			Pad El	evation:	0.0	feet		
Barrier Dist. To Observer (Structure): 20 feet						Observe	r Height	ts Above I	Pad Elev	ation	
Road Grade: 0.00 %							=xterior:	5	feet		
Left View: -90 degrees Right View: -90 degrees				es		Fir	St Floor:	5.5	feet		
	Rig	nt view.	90 degre	ees		Secon		14	ieel		
		FHW/	A NOISE N	NODEL CA		ONS					
		Troffic Ele			Finite	Deed	<u>Crada</u>	Barrie	er Attenu	ation	
Autoo	REMEL	I rattic Fio	W L	nstance	Finite	Road	Grade	Exterior	1St FIF	2nd Fir	
Med Trucks:	07.30 76.31	-13.04		-2.70	-1.2	20	0.00	-0.1	-0.100	0	
Hvy Trucks:	81 16	-12 75		-2 70	-1 2	20	0.00	0	0.12	0	
They mache	01110						0.00	Ū	•	0	
	Log Pook Hour				E LEVELS	+	-	dn			
Autos:	65 0	62 9			<u></u> 55	5	L 6'	3.8	64	13	
Med Trucks:	59.4	42.9		39.4	34	.5 6	4:	3.4	43	38	
Hvv Trucks:	64.5	48.3		42.7	39.	.7	48	8.6	48	3.9	
Traffic Noise:	68.4	63.0		60.4	55.	.6	6	4.0	64	1.5	
			MITIGATE								
	Leg Peak Hour	Leg Dav		a Evenina	Lea N	liaht	L	.dn	CN	IEL	
Autos:	65.0	62.9	201	60.3	55.	.5	6	3.8	64	1.3	
Med Trucks:	59.4	42.9		39.4	34	.6	4:	3.4	43	3.8	
Hvy Trucks:	64.5	48.3		42.7	39.	.7	48	8.6	48	3.9	
Traffic Noise:	68.4	63.0		60.4	55.	.6	64	4.0	64	4.5	

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL										
Scenario:	Existing Plus Pro	piect			Proiec	t Name:	Fresno (GP			
Road Type:	3-Lane Arterial				Job N	lumber:	31	680016			
51			NOISE		PUTS						
	Highway Data		NOIOE I			Vohio	No Mix				
Aver	age Daily Traffic:	19 900 ve	hicles			Dav	Evening	Night	Daily		
Pe	ak Hour Volume:	1 990 ve	ehicles		Autos:	73.3%	10.2%	10.0%	93.4%		
1.0	Vehicle Speed:	40 mr	nn		Medium Trucks:	2.7%	0.3%	0.3%	3.2%		
Near/Fa	r Lane Distance:	66 fee	et		Heavy Trucks:	2.9%	0.2%	0.3%	3.4%		
	Site Dat	a			Elevations						
	Barrier	Height:	0 feet		Barrier Base El	evation:	0.0	feet			
	Barrier Type(Wall	/Berm):	Wall		Road El	evation:	0.0	feet	-		
S	ite Conditions(Ha	rd/Soft):	Soft		Noise S	ource El	evation al	oove Ro	ad		
Centerl	line (C.L.) Dist. to	Barrier:	90 feet			Autos:	0	feet			
C.L. Dist.	To Observer (Bad	ckyard):	100 feet		Med	Trucks:	2.3	feet			
Barrier Dist.	To Observer (Bad	ckyard):	10 feet		Hvy	Trucks:	8	feet			
C.L. Dist.	To Observer (Str	ucture):	110 feet		Pad El	evation:	0.0	feet	-		
Barrier Dist. To Observer (Structure): 20 feet					Observer Heights Above Pad Elevation						
	Road		Exterior:	5	feet						
	Le	es	Fir	st Floor:	5.5	feet					
	Rig	ht View:	90 degre	es	Secor	nd Floor:	14	feet			
		FHW	VA NOISE N	IODEL CA	LCULATIONS						
							Barrie	er Attenu	ation		
	REMEL	Traffic FI	low D	istance	Finite Road	Grade	Exterior	1st Flr	2nd Flr		
Autos:	67.36	1.37		-4.25	-1.20	0.00	0	-0.181	0		
Med Trucks:	76.31	-13.29	9	-4.25	-1.20	0.00	0	-0.119	0		
Hvy Trucks:	81.16	-13.02	2	-4.25	-1.20	0.00	0	0	0		
		ı	UNMITIGAT	ED NOISI	E LEVELS						
	Leq Peak Hour	Leq Da	ay Leq	Evening	Leq Night	L	dn	CN	IEL		
Autos:	63.3	61.1		58.6	53.7	6	2.1	62	2.6		
Med Trucks:	57.6	41.1		37.6	32.8	4	1.6	42	2.0		
Hvy Trucks:	62.7	46.5		40.9	37.9	4	6.7	47	7.0		
Traffic Noise:	66.6	61.3		58.7	53.9	6	2.3	62	2.8		
			MITIGATE	D NOISE	LEVELS						
	Leq Peak Hour	Leq Da	ay Leq	Evening	Leq Night	L	dn	CN	IEL		
Autos:	63.3	61.1		58.6	53.7	6	2.1	62	2.6		
Med Trucks:	57.6	41.1		37.6	32.8	4	1.6	42	2.0		
Hvy Trucks:	62.7	46.5		40.9	37.9	4	6.7	47	7.0		
Traffic Noise:	66.6	61.3		58.7	53.9	6	2.3	62	2.8		

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL										
Scenario:	Cumulative Plus	Proiect			Project Name: Fresno GP						
Road Type:	3-Lane Arterial	-,				Job N	umber:	31	680016		
51			NOISE		IDUITS						
	Highway Data		NOISE				Vohio	lo Mix			
Δνοι	and Daily Traffic	20 200 veh	nicles				Dav	Evening	Night	Daily	
Pe	ak Hour Volume:	2 020 veh	nicles		Δ	utos.	73 3%	10.2%	10.0%	93.4%	
10	Vehicle Speed:	40 mp	h		Medium Tr	ucks:	2 7%	0.3%	0.3%	3.2%	
Near/Fa	r Lane Distance:	66 fee	t		Heavy Tr	ucks:	2.9%	0.2%	0.3%	3.4%	
	Site Dat		-		Flevations						
	Barrier	Height:	0 feet		Barrier Ba	ase Ele	evation.		feet		
	Barrier Type(Wall	/Berm):	Wall		R	oad Ele	evation:	0.0	feet	-	
S	ite Conditions(Ha	rd/Soft):	Soft		No	oise Sc	ource El	evation al	ove Ro	ad	
Center	ine (C.L.) Dist. to	Barrier:	90 feet				Autos:	0	feet		
C.L. Dist.	To Observer (Bad	ckyard):	100 feet			Med	Trucks:	2.3	feet		
Barrier Dist.	To Observer (Bad	ckyard):	10 feet			Hvy	Trucks:	8	feet		
C.L. Dist.	To Observer (Str	ucture):	110 feet		F	Pad Ele	evation:	0.0	feet	-	
Barrier Dist. To Observer (Structure): 20 feet					Observer Heights Above Pad Elevation						
			E	Exterior:	5	feet					
Left View: -90 degrees						Firs	st Floor:	5.5	feet		
	Rig	ht View:	90 degre	es	:	Secon	d Floor:	14	feet		
		FHW/	A NOISE N			NS					
								Barrie	er Attenu	ation	
	REMEL	Traffic Flo	ow D	istance	Finite Ro	bad	Grade	Exterior	1st Flr	2nd Flr	
Autos:	67.36	1.43		-4.25	-1.20		0.00	0	-0.181	0	
Med Trucks:	76.31	-13.22		-4.25	-1.20		0.00	0	-0.119	0	
Hvy Trucks:	81.16	-12.96		-4.25	-1.20		0.00	0	0	0	
		U	JNMITIGA	FED NOIS	E LEVELS						
	Leq Peak Hour	Leq Day	y Leo	q Evening	Leq Night		L	dn	CN	IEL	
Autos:	63.3	61.2		58.7	53.8		62	2.2	62	2.7	
Med Trucks:	57.6	41.2		37.6	32.9		41	1.6	42	2.1	
Hvy Trucks:	62.7	46.6		41.0	38.0		46	6.8	47	7.1	
Traffic Noise:	66.6	61.4		58.8	53.9		62	2.3	62	2.8	
			MITIGATE	D NOISE	LEVELS						
	Leq Peak Hour	Leq Day	y Leo	Evening	Leq Nig	jht	L	dn	CN	IEL	
Autos:	63.3	61.2		58.7	53.8		62	2.2	62	2.7	
Med Trucks:	57.6	41.2		37.6	32.9		4	1.6	42	2.1	
Hvy Trucks:	62.7	46.6		41.0	38.0		46	6.8	47	7.1	
Traffic Noise:	66.6	61.4		58.8	53.9		62	2.3	62	2.8	

Scenario: Existing Road Type: 4-Lane Arterial

Project Name: Fresno GP Job Number: 31680016

				DISE MODEL IN	IFUIS				/
	Highway Data					Vehic	le Mix		
Avera	age Daily Traffic:	36,900	vehicles	,		Day	Evening	Night	Daily
Pea	ak Hour Volume:	3,690	vehicles	1	Autos:	73.3%	10.2%	10.0%	93.4%
	Vehicle Speed:	45	mph		Medium Trucks:	2.7%	0.3%	0.3%	3.2%
Near/Fa	r Lane Distance:	66	feet		Heavy Trucks:	2.9%	0.2%	0.3%	3.4%
	Site Dat	ta				Eleva	ations		
	Barrier	Height:	4	feet	Barrier Base El	levation:	0.0	feet	
	Barrier Type(Wall	/Berm):	Wall		Road El	levation:	0.0	feet	
Si	ite Conditions(Har	rd/Soft):	Soft		Noise Se	ource El	evation al	bove Ro	ad
Centerl	ine (C.L.) Dist. to	Barrier:	90	feet		Autos:	0	feet	
C.L. Dist.	To Observer (Bad	ckyard):	100	feet	Med	Trucks:	2.3	feet	
Barrier Dist.	To Observer (Bad	ckyard):	10	feet	Hvy	Trucks:	8	feet	
C.L. Dist.	To Observer (Str	ucture):	110	feet	Pad El	levation:	0.0	feet	
Barrier Dist.	To Observer (Str	ucture):	20	feet	Observe	er Height	ts Above I	Pad Elev	vation
	Road	Grade:	0.00	%	1	Exterior:	5	feet	
	Le	eft View:	-90	degrees	Fir	st Floor:	5.5	feet	
	Rigl	nt View:	90	degrees	Secor	nd Floor:	14	feet	
		E E	IWA NO	ISE MODEL CA	LCUI ATIONS				
							Barrie	er Attenu	ation
	REMEL	Traffic	; Flow	Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr
Autos:	69.34	3./	54	-4.25	-1.20	0.00	-4.6	-4.8	0
Med Trucks:	77.62	-11	.12	-4.25	-1.20	0.00	-3.9	-4.1	0
Hvy Trucks:	82.14	-10	.85	-4.25	-1.20	0.00	-1.22	-0.95	0
			UNMI	TIGATED NOISI	ELEVELS				
	Leq Peak Hour	Leq	Day	Leq Evening	Leq Night	L	.dn	CN	IEL
Autos:	67.4	65	.3	62.7	57.9	6	6.3	66	3.8
Med Trucks:	61.1	44	.6	41.1	36.3	4	5.0	45	5.5
Hvy Trucks:	65.8	49	.7	44.1	41.1	49	9.9	50).2
Traffic Noise:	70.3	65	.4	62.8	58.0	6	6.4	66	<u>5.9</u>
			міті	GATED NOISE	LEVELS				
	Leq Peak Hour	Leq	Day	Leq Evening	Leq Night	L	.dn	CN	IEL
Autos:	62.8	60	.7	58.1	53.3	6	1.7	62	2.2
Med Trucks:	57.2	40).7	37.2	32.4	4	1.1	41	.6
Hvy Trucks:	64.6	48	.4	42.9	39.8	4	8. <u>7</u>	49).0
Traffic Noise	67.3	61	.0	58.3	53.5	6	1.9	62	2.4

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL									
Scenario:	Existing Plus Pro	oject		Projec	t Name:	Fresno	GP			
Road Type:	4-Lane Arterial	.,		Job I	Number:	31	680016			
51			NOISE MODEL IN	PUTS						
	Highway Data				Vohid	No Mix				
Aver	age Daily Traffic:	52 400 vehicl	es		Dav	Evening	Night	Daily		
Pe	ak Hour Volume:	5.240 vehicl	es	Autos:	73.3%	10.2%	10.0%	93.4%		
1.0	Vehicle Speed:	45 mph		Medium Trucks:	2.7%	0.3%	0.3%	3.2%		
Near/Fa	r Lane Distance:	66 feet		Heavy Trucks:	2.9%	0.2%	0.3%	3.4%		
	Site Dat	a		Flevations						
	Barrier	Heiaht:	4 feet	Barrier Base E	levation:	0.0	feet			
	Barrier Type(Wal	/Berm): Wa	all	Road E	levation:	0.0	feet	-		
S	ite Conditions(Ha	rd/Soft): So	oft	Noise S	ource El	evation al	oove Ro	ad		
Center	line (C.L.) Dist. to	Barrier: 9	90 feet		Autos:	0	feet			
C.L. Dist.	To Observer (Ba	ckyard): 10	00 feet	Mec	I Trucks:	2.3	feet			
Barrier Dist.	To Observer (Ba	ckyard): ´	10 feet	Hvy	Trucks:	8	feet	_		
C.L. Dist.	To Observer (Str	ucture): 11	10 feet	Pad E	levation:	0.0	feet			
Barrier Dist.	To Observer (Str	ucture): 2	Observe	er Height	ts Above I	Pad Elev	/ation			
	Road	Grade: 0.0		Exterior:	5	feet				
	Le	Fir	st Floor:	5.5	feet					
	Rig	ht View:	90 degrees	Secor	nd Floor:	14	feet			
		FHWA N	NOISE MODEL CA	LCULATIONS						
						Barrie	er Attenu	uation		
	REMEL	Traffic Flow	Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr		
Autos:	69.34	5.06	-4.25	-1.20	0.00	-4.6	-4.8	0		
Med Trucks:	77.62	-9.59	-4.25	-1.20	0.00	-3.9	-4.1	0		
Hvy Trucks:	82.14	-9.33	-4.25	-1.20	0.00	-1.22	-0.95	0		
		UNI	MITIGATED NOISE	E LEVELS						
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	.dn	CN	IEL		
Autos:	69.0	66.8	64.3	59.4	6	7.8	68	3.3		
Med Trucks:	62.6	46.1	42.6	37.8	4	6.6	47	7.0		
Hvy Trucks:	67.4	51.2	45.6	42.6	5	1.4	5′	1.7		
Traffic Noise:	71.8	67.0	64.4	59.5	6	7.9	68	3.4		
		M	TIGATED NOISE	LEVELS						
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	.dn	CN	IEL		
Autos:	64.4	62.2	59.7	54.8	6	3.2	63	3.7		
Med Trucks:	58.7	42.2	38.7	33.9	4	2.7	43	3.1		
Hvy Trucks:	66.1	50.0	44.4	41.4	5	0.2	50	0.5		
Traffic Noise:	68.8	62.5	59.8	55.0	6	3.4	63	3.9		

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL									
Scenario:	Cumulative Plus	Project		Proiec	t Name:	Fresno	GP			
Road Type:	4-Lane Arterial	- ,		Job I	Number:	31	680016			
51				DUTS						
	Highway Data				Vohid	olo Mix				
Δνρι	and Daily Traffic	55 300 vehicle	26		Dav	Evening	Night	Daily		
Pe	ak Hour Volume	5 530 vehicle	20	Autos:	73.3%	10.2%	10.0%	93.4%		
10	Vehicle Speed:	45 mph		Medium Trucks:	2 7%	0.3%	0.3%	3.2%		
Near/Fa	r Lane Distance:	66 feet		Heavy Trucks:	2.9%	0.2%	0.3%	3.4%		
	Site Dat	ta			Flev	ations				
	Barrier	Height:	5 feet	Barrier Base E	levation:	0.0	feet			
	Barrier Type(Wall	l/Berm): Wa	all	Road E	levation:	0.0	feet	-		
S	ite Conditions(Ha	rd/Soft): Sc	oft	Noise S	ource El	evation al	oove Ro	ad		
Center	line (C.L.) Dist. to	Barrier: 9	00 feet		Autos:	0	feet			
C.L. Dist.	To Observer (Bad	ckyard): 10	00 feet	Med	Trucks:	2.3	feet			
Barrier Dist.	To Observer (Bad	ckyard): 1	0 feet	Hvy	/ Trucks:	8	feet	_		
C.L. Dist.	To Observer (Str	0 feet	Pad Elevation: 0.0 feet							
Barrier Dist.	To Observer (Str	ucture): 2	20 feet	Observe	er Height	ts Above I	Pad Elev	ation/		
	Road	Grade: 0.0	0 %		Exterior:	5	feet			
	Le	0 degrees	Fi	st Floor:	5.5	feet				
	Rig	ht View: 9	0 degrees	Seco	nd Floor:	14	feet			
		FHWA N	NOISE MODEL CA	LCULATIONS						
						Barrie	er Attenu	uation		
	REMEL	Traffic Flow	Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr		
Autos:	69.34	5.29	-4.25	-1.20	0.00	-5.2	-5.1	0		
Med Trucks:	77.62	-9.36	-4.25	-1.20	0.00	-5.1	-4.9	0		
Hvy Trucks:	82.14	-9.10	-4.25	-1.20	0.00	-4.8	-4.1	0		
		UNN	MITIGATED NOISE	ELEVELS						
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	.dn	CN	IEL		
Autos:	69.2	67.0	64.5	59.6	6	8.0	68	3.5		
Med Trucks:	62.8	46.3	42.8	38.0	4	6.8	47	(.2		
Hvy Trucks:	67.6	51.4	45.8	42.8	5	1.6	51	1.9		
I raffic Noise:	72.0	67.2	64.6	59.8	6	8.2	68	3.6		
		МІ	TIGATED NOISE	LEVELS						
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	.dn	CN	IEL		
Autos:	64.0	61.8	59.3	54.4	6	2.8	63	3.3		
Med Irucks:	57.7	41.2	37.7	32.9	4	1./	42	2.1		
Hvy Irucks:	62.8	46.6	41.0	38.0	4	6.8	47	(.1		
i ramic Noise:	67.0	62.0	59.4	54.6	6	3.0	63	5.4		

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL									
Scenario:	Cumulative Plus	Project			Proie	ct Name:	Fresno	GP		
Road Type:	4-Lane Super Ar	rterial			Job	Number	: 316800 ⁻	16		
51	•		NOISE		PUTS					
	Highway Data		NOIDE	MODEE		Vohi	olo Mix			
Aver	age Daily Traffic:	52,300 veh	nicles			Dav	Evening	Night	Daily	
Pe	ak Hour Volume:	5.230 veh	nicles		Autos	; 72.7%	12.1%	9.6%	94.4%	
10	Vehicle Speed:	50 mp	h		Medium Trucks	5: 4.2%	0.5%	0.3%	4.9%	
Near/Fa	r Lane Distance:	90 feet	et		Heavy Trucks	s: 0.2%	0.5%	0.0%	0.7%	
	Site Dat	ta			Flevations					
	Barrier	Height:	4 feet		Barrier Base	Elevation	0.0	feet		
	Barrier Type(Wal	l/Berm):	Wall		Road	Elevation	0.0	feet	-	
S	ite Conditions(Ha	rd/Soft):	Soft		Noise	Source El	levation al	oove Ro	ad	
Center	line (C.L.) Dist. to	Barrier:	114 feet			Autos	: 0	feet		
C.L. Dist.	To Observer (Ba	ckyard):	124 feet		Me	d Trucks:	2.3	feet		
Barrier Dist.	To Observer (Ba	ckyard):	10 feet		H	/y Trucks:	: 8	feet		
C.L. Dist.	To Observer (Str		Pad Elevation: 0.0 feet							
Barrier Dist.	To Observer (Str		Obser	/er Heigh	ts Above I	Pad Elev	vation			
	Road			Exterior	: 5	feet				
Left View: -90 degrees					F	irst Floor	5.5	feet		
	Rig	ht View:	90 degre	es	Sec	ond Floor	: 14	feet		
		FHW,	A NOISE N		LCULATIONS					
							Barrie	er Attenu	uation	
	REMEL	Traffic Flo	ow D	istance	Finite Road	Grade	Exterior	1st Flr	2nd Flr	
Autos:	71.12	4.64		-5.57	-1.20	0.00	-4.5	-4.6	0	
Med Trucks:	78.79	-8.19		-5.57	-1.20	0.00	-3.8	-3.9	0	
Hvy Trucks:	83.02	-16.74		-5.57	-1.20	0.00	-1.355	-1.13	0	
		U	JNMITIGA		E LEVELS					
	Leq Peak Hour	Leq Day	y Leo	l Evening	Leq Night	L	.dn	CN	NEL	
Autos:	69.0	66.8		65.0	59.3	6	7.8	68	8.3	
Med Trucks:	63.8	49.2		45.7	39.1	4	8.9	49	9.4	
Hvy Trucks:	59.5	32.3		41.3	20.0	3	4.7	38	8.2	
Traffic Noise:	70.5	66.9		65.1	59.3	6	7.8	68	8.4	
			MITIGATE	D NOISE	LEVELS					
	Leq Peak Hour	Leq Day	y Leo	Evening	Leq Night	L	.dn	CN	NEL	
Autos:	64.5	62.3		60.5	54.8	6	3.3	63	3.8	
Med Trucks:	60.0	45.4		41.9	35.3	4	5.1	4	5.6	
Hvy Trucks:	58.2	31.0		40.0	18.6	3	3.3	36	6.9	
Traffic Noise:	66.5	62.4		60.6	54.8	6	3.3	63	3.9	

ГГ	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL										
Scenario: E	Existing				Projec	t Name:	Fresno	GP			
Road Type: 6	6-Lane Arterial				Job I	Number:	31	680016			
			N	DISE MODEL IN	IPUTS						
	Highway Data					Vehic	le Mix				
Avera	ge Daily Traffic:	62,600	vehicles			Day	Evening	Night	Daily		
Pea	k Hour Volume:	6,260	vehicles		Autos:	73.3%	10.2%	10.0%	93.4%		
	Vehicle Speed:	45	mph		Medium Trucks:	2.7%	0.3%	0.3%	3.2%		
Near/Far	Lane Distance:	90	feet		Heavy Trucks:	2.9%	0.2%	0.3%	3.4%		
	Site Dat	a				Eleva	ations				
	Barrier	Height:	4	feet	Barrier Base E	levation:	0.0	feet			
E	Barrier Type(Wall	/Berm):	Wall		Road E	levation:	0.0	feet	-		
Sit	te Conditions(Ha	rd/Soft):	Soft		Noise S	ource El	evation al	oove Ro	ad		
Centerli	ne (C.L.) Dist. to	Barrier:	114	feet		Autos:	0	feet			
C.L. Dist.	To Observer (Bad	ckyard):	124	feet	Mec	Trucks:	2.3	feet			
Barrier Dist.	To Observer (Bad	ckyard):	10	feet	Hvy	/ Trucks:	8	feet	-		
C.L. Dist.	To Observer (Str	ucture):	134	feet	Pad E	levation:	0.0	feet			
Barrier Dist.	To Observer (Str	feet	Observe	er Height	s Above I	Pad Elev	ation				
	Road	%	_ .	Exterior:	5	feet					
	Le	degrees	FII	rst Floor:	5.5	feet					
	Rigi	nt view:	90	degrees	Seco	nd Floor:	14	feet			
		Fł	HWA NC	ISE MODEL CA	LCULATIONS						
						- ·	Barrie	er Attenu	ation		
	REMEL	Traffic	Flow	Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr		
Autos:	69.34	5.8	83	-5.57	-1.20	0.00	-4.5	-4.6	0		
Ned Trucks:	77.62	-8.	82	-5.57	-1.20	0.00	-3.8	-3.9	0		
HVY I rucks:	82.14	-8.	56	-5.57	-1.20	0.00	-1.355	-1.13	0		
			UNMI	TIGATED NOIS	ELEVELS		_				
l	Leq Peak Hour	Leq	Day	Leq Evening	Leq Night	L	dn	CN			
Autos:	68.4	66	5.3	63.7	58.9	6	7.2	67	7.7		
Med Trucks:	62.0	45	9.6 	42.0	37.3	40	6.0	46	5.5		
HVY Irucks:	66.8	50)./	45.1	42.0	50	0.9	51	1.2		
I ramic Noise:	/1.3	60	0.4	63.8	59.0	6	7.4	67	.9		
			MITI	GATED NOISE	LEVELS						
	Leq Peak Hour	Leq	Day	Leq Evening	Leq Night	L	dn	CN	IEL		
Autos:	63.9	61	.8	59.2	54.4	62	2.7	63	3.2		
Med Trucks:	58.2	41	.8	38.2	33.5	42	2.2	42	2.7		
Hvy Trucks:	65.5	49	9.3	43.7	40.7	49	9.5	49	9.8		
I ramic Noise:	oð.2	62		59.4	54.6	6	3.0	63	5.5		

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F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL									
Scenario:	Existing Plus Pro	piect			Proiec	t Name:	Fresno	GP		
Road Type:	6-Lane Arterial	,			Job I	Number:	31	680016		
51			NOISE		IPLITS					
	Highway Data		NOIDE	MODELIN		Vehic	No Mix			
Aver	age Daily Traffic:	75 200 veh	nicles			Dav	Evening	Night	Daily	
Pe	ak Hour Volume:	7.520 veh	nicles		Autos:	73.3%	10.2%	10.0%	93.4%	
	Vehicle Speed:	45 mp	h		Medium Trucks:	2.7%	0.3%	0.3%	3.2%	
Near/Fa	r Lane Distance:	90 fee	t		Heavy Trucks:	2.9%	0.2%	0.3%	3.4%	
	Site Dat	ta			•	Elev	ations			
	Barrier	Height:	5 feet		Barrier Base E	levation:	0.0	feet		
	Barrier Type(Wall	/Berm):	Wall		Road E	levation:	0.0	feet	-	
Si	ite Conditions(Ha	rd/Soft):	Soft		Noise S	ource El	evation al	ove Ro	ad	
Centerl	line (C.L.) Dist. to	Barrier:	114 feet			Autos:	0	feet		
C.L. Dist.	To Observer (Bad	ckyard):	124 feet		Mec	Trucks:	2.3	feet		
Barrier Dist.	To Observer (Ba	ckyard):	10 feet		Hvy	Trucks:	8	feet	_	
C.L. Dist.	To Observer (Str		Pad Elevation: 0.0 feet							
Barrier Dist.	To Observer (Str		Observe	er Height	s Above I	Pad Elev	ation/			
	Road		F :	Exterior:	5	feet				
Left View: -90 degrees				es	FII	St Floor:	5.5	feet		
	Rig	nt view.	90 degre	962	Seco		14	leel		
		FHW/	A NOISE N	NODEL CA	LCULATIONS					
	DEME		_	. ,		• •	Barrie	er Attenu	Jation	
A 1	REMEL	I raffic Flo	ow D		Finite Road	Grade	Exterior	1st Fir	2nd Fir	
Autos: Mod Trucke:	09.34 77.62	0.03		-5.57	-1.20	0.00	-5.1	-4.9	0	
Hvy Trucks:	82 14	-0.02		-5.57	-1.20	0.00	-4.9 -4.9	-4.9 -4.2	0	
They fracks.	02.14	1.10				0.00	4.5	7.2	0	
	Less Destablisher	U	JNMITIGA	ED NOIS			-1			
Autoor	Leq Peak Hour		y Leo				an			
Autos: Mod Trucks:	62.8	07.1		04.0 42.8	59.7 38.1	0	6.0 6.8	00	5.5 7 3	
Hwy Trucks:	02.0 67.6	40.4 51 /		42.0 15.0	30.1 12.8	5	0.0 1 7	41 50	7.5	
Traffic Noise:	72.0	67.2		64.6	<u> </u>	6	8.2	68	3.7	
Traine Reide.	1210	0712					012		511	
					LEVELS		dn	<u></u>		
Autoer		Eed Day	y Leo			L A	011 2 0			
Med Trucke	57 9	02.0 41 5		37.9	33.2	0. 4	2.9 1 9	۵. ۵	2. 4 2.4	
Hvy Trucks	62 7	46.5		41.0	37.9	4	6.8	47	. 7.1	
Traffic Noise:	67.0	62.1		59.5	54.7	6	3.1	63	3.6	
	-									

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL									
Scenario:	Cumulative Plus	Proiect			Proie	ct Name:	Fresno	GP		
Road Type:	6-Lane Arterial	,			Job	Number	31	680016		
, ji			NOISE		IDUITS		-			
	Highway Data		NOISL		1013	Vohi	olo Mix			
Δυστ	nighway Dala	81 100 vol	hiclos					Night	Daily	
	age Daily Hame.	8 140 vel	hicles		Autos	· 73 3%	10.2%	10.0%	03.4%	
	Vehicle Sneed:	45 mm	nh		Medium Trucks	· 27%	0.2%	0.3%	3.4%	
Near/Fa	r Lane Distance:	90 fee	et.		Heavy Trucks	· 2.7%	0.3%	0.3%	3.4%	
	Site Dat									
	Barrier	la Height:	5 feet		Barrier Base			foot		
	Barrier Type(Wall	/Berm) [.]	Wall		Road I	=levation:	0.0	feet	-	
S	ite Conditions(Ha	rd/Soft):	Soft		Noise :	Source Fl	evation al	hove Ro	ad	
Center	line (C.L.) Dist. to	Barrier:	114 feet			Autos		feet	au	
C.L. Dist.	To Observer (Ba	ckvard):	124 feet		Ме	d Trucks:	2.3	feet		
Barrier Dist.	To Observer (Bad	ckvard):	10 feet		Hv	v Trucks:	8	feet		
C.L. Dist.	To Observer (Str	ucture):	134 feet		Pad I	, Elevation:	0.0	feet	_	
Barrier Dist. To Observer (Structure): 20 feet					Observer Heights Above Pad Elevation					
	Road			Exterior:	5	feet				
Left View: -90 degrees					F	irst Floor:	5.5	feet		
Right View: 90 degrees					Seco	nd Floor:	14	feet		
		FHW	A NOISE N	NODEL CA	LCULATIONS					
							Barrie	er Attenu	uation	
	REMEL	Traffic Fl	low D	istance	Finite Road	Grade	Exterior	1st Flr	2nd Flr	
Autos:	69.34	6.97		-5.57	-1.20	0.00	-5.1	-4.9	0	
Med Trucks:	77.62	-7.68		-5.57	-1.20	0.00	-4.9	-4.9	0	
Hvy Trucks:	82.14	-7.42		-5.57	-1.20	0.00	-4.9	-4.2	0	
		ι	UNMITIGA		E LEVELS					
	Leq Peak Hour	Leq Da	ay Leo	l Evening	Leq Night	L	.dn	CN	NEL	
Autos:	69.6	67.4		64.9	60.0	6	8.4	68	8.9	
Med Trucks:	63.2	46.7		43.2	38.4	4	7.2	47	7.6	
Hvy Trucks:	68.0	51.8		46.2	43.2	5	2.0	52	2.3	
Traffic Noise:	72.4	67.6		65.0	60.1	6	8.5	69	9.0	
			MITIGATE	D NOISE	LEVELS					
	Leq Peak Hour	Leq Da	ay Leo	Evening	Leq Night	L	.dn	CN	NEL	
Autos:	64.5	62.3		59.8	54.9	6	3.3	63	3.8	
Med Trucks:	58.3	41.8		38.3	33.5	4	2.3	42	2.7	
Hvy Trucks:	63.1	46.9		41.3	38.3	4	7.1	47	7.4	
Traffic Noise:	67.4	62.5		59.9	55.0	6	3.4	63	3.9	

F	HWA-RD-77-	108 HIGHW	AY TRAFFIC	NOISE PREI	DICTIO	N MOE	DEL	
Scenario:	Existing			Projec	t Name:	Fresno (GP	
Road Type:	Scenic Arterial			Job I	Number:	31	680016	
,,		Ν	IOISE MODEL IN	PUTS				
	Highway Data	•			Vehic	le Mix		
Avera	age Daily Traffic:	20.400 vehicle	S		Dav	Evenina	Niaht	Dailv
Pea	ak Hour Volume:	2,040 vehicle	S	Autos:	73.3%	10.2%	10.0%	93.4%
	Vehicle Speed:	40 mph		Medium Trucks:	2.7%	0.3%	0.3%	3.2%
Near/Fa	r Lane Distance:	62 feet		Heavy Trucks:	2.9%	0.2%	0.3%	3.4%
	Site Dat	ta			Eleva	ations		
	Barrier	Height: () feet	Barrier Base E	levation:	0.0	feet	
	Barrier Type(Wal	l/Berm): Wal	I	Road E	levation:	0.0	feet	-
Si	ite Conditions(Ha	rd/Soft): Sof	t	Noise S	ource El	evation al	oove Ro	ad
Centerl	ine (C.L.) Dist. to	Barrier: 112	2 feet		Autos:	0	feet	
C.L. Dist.	To Observer (Ba	ckyard): 122	2 feet	Med	d Trucks:	2.3	feet	
Barrier Dist.	To Observer (Ba	ckyard): 10) feet	Hvy	/ Trucks:	8	feet	_
C.L. Dist.	To Observer (Str	ucture): 132	2 feet	Pad E	levation:	0.0	feet	
Barrier Dist.	To Observer (Str) feet	Observe	er Height	ts Above I	Pad Elev	ation	
	Road	Grade: 0.00		Exterior:	5	feet		
	Le) degrees	Fi	rst Floor:	5.5	feet		
	Rig) degrees	Seco	nd Floor:	14	feet		
		FHWA N	OISE MODEL CA	LCULATIONS				
						Barrie	er Attenu	ation
	REMEL	Traffic Flow	Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr
Autos:	67.36	1.47	-5.70	-1.20	0.00	0	-0.177	0
Med Trucks:	76.31	-13.18	-5.70	-1.20	0.00	0	-0.118	0
Hvy Trucks:	81.16	-12.91	-5.70	-1.20	0.00	0	0	0
		UNM	ITIGATED NOISE	ELEVELS				
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	.dn	CN	IEL
Autos:	61.9	59.8	57.2	52.4	60	0.8	61	1.3
Med Trucks:	56.2	39.8	36.2	31.5	40	0.2	4().7
Hvy Trucks:	61.3	45.2	39.6	36.6	4	5.4	45	5.7
Traffic Noise:	65.2	60.0	57.4	52.5	6	0.9	61	.4
		МІ	IGATED NOISE	LEVELS				
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	.dn	CN	IEL
Autos:	61.9	59.8	57.2	52.4	60	0.8	61	1.3
Med Trucks:	56.2	39.8	36.2	31.5	40	0.2	40).7
Hvy Trucks:	61.3	45.2	39.6	36.6	4	5.4	45	5.7
Traffic Noise:	65.2	60.0	57.4	52.5	6	0.9	61	.4

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL									
Scenario:	Existing Plus Pro	piect			Proiec	t Name:	Fresno	GP		
Road Type:	Scenic Arterial	,			Job N	Number:	31	680016		
,,			NOISE		PUTS					
	Highway Data					Vehic	le Mix			
Avera	age Daily Traffic:	31.600 veł	hicles			Dav	Evenina	Niaht	Daily	
Pe	ak Hour Volume:	3,160 veł	hicles		Autos:	73.3%	10.2%	10.0%	93.4%	
	Vehicle Speed:	40 mp	bh		Medium Trucks:	2.7%	0.3%	0.3%	3.2%	
Near/Fa	r Lane Distance:	66 fee	et		Heavy Trucks:	2.9%	0.2%	0.3%	3.4%	
	Site Dat	ta				Eleva	ations			
	Barrier	Height:	0 feet		Barrier Base E	levation:	0.0	feet		
	Barrier Type(Wall	/Berm):	Wall		Road E	levation:	0.0	feet		
S	ite Conditions(Ha	rd/Soft):	Soft		Noise S	ource El	evation al	oove Ro	ad	
Center	line (C.L.) Dist. to	Barrier:	112 feet			Autos:	0	feet		
C.L. Dist.	To Observer (Bad	ckyard):	122 feet		Med	Trucks:	2.3	feet		
Barrier Dist.	To Observer (Bad	ckyard):	10 feet		<u> </u>	Trucks:	8	feet	-	
C.L. Dist.	To Observer (Str		Pad Elevation: 0.0 feet							
Barrier Dist.	To Observer (Str		Observe	er Height	S Above I	ad Elev	ation			
Road Grade: 0.00 %					C ir	Exterior:	С 5 Б	foot		
Right View: -90 degrees				100 100	Secor	nd Floor:	5.5 14	feet		
	r (ig)							1001		
		FHW	A NOISE N	IODEL CA	LCULATIONS		Demi			
	DEMEI	Troffic El		ictonco	Finite Road	Grada	Barrie	1 of Elr	ation 2nd Eir	
Autos	67.36	11aiiii Fii		-5.67						
Med Trucks:	76.31	-11 28	3	-5.67	-1 20	0.00	0	-0 118	0	
Hvv Trucks:	81.16	-11.01		-5.67	-1.20	0.00	0 0	0	0	
, , , , , , , , , ,					ELEVELS		-	-	-	
	Leg Peak Hour	Leg Da	av Leo	Evenina	Lea Night	L	dn	CN	IEL	
Autos:	63.9	61.7	.) _00	59.2	54.3	6	2.7	63	3.2	
Med Trucks:	58.2	41.7		38.2	33.4	42	2.1	42	2.6	
Hvy Trucks:	63.3	47.1		41.5	38.5	4	7.3	47	7.6	
Traffic Noise:	67.2	61.9		59.3	54.5	6	2.9	63	3.3	
			MITIGATE							
	Leq Peak Hour	Leq Da	ay Leq	Evening	Leq Night	L	dn	CN	IEL	
Autos:	63.9	61.7		59.2	54.3	6	2.7	63	3.2	
Med Trucks:	58.2	41.7		38.2	33.4	42	2.1	42	2.6	
Hvy Trucks:	63.3	47.1		41.5	38.5	4	7.3	47	7.6	
Traffic Noise:	67.2	61.9		59.3	54.5	6	2.9	63	3.3	

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL									
Scenario:	Cumulative Plus	Project				Project	Name:	Fresno	GP	
Road Type:	Scenic Arterial					Job N	lumber:	31	680016	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			NOISE		IDUTS					
	Highway Data		NOISE				Vohio	lo Mix		
Δνοια	and Daily Traffic	32 400 vet	nicles				Dav	Evening	Night	Daily
Per	ak Hour Volume:	3 240 ver	nicles			Autos.	73 3%	10.2%	10.0%	93.4%
1.00	Vehicle Speed:	40 mp	h		Medium	Trucks:	2 7%	0.3%	0.3%	3.2%
Near/Fa	r Lane Distance:	66 fee	et		Heavy	Trucks:	2.9%	0.2%	0.3%	3.4%
	Site Dat		-				Flove	ations		
	Barrier	Height [.]	0 feet		Barrier	Base Fl	evation.		feet	
	Barrier Type(Wall	/Berm) [.]	Wall		Bamor	Road FI	evation:	0.0	feet	-
Si	ite Conditions(Ha	rd/Soft):	Soft			Noise So	ource El	evation al	ove Ro	ad
Centerl	ine (C.L.) Dist. to	Barrier:	112 feet				Autos:	0	feet	
C.L. Dist.	To Observer (Bad	ckvard):	122 feet			Med	Trucks:	2.3	feet	
Barrier Dist.	To Observer (Bad	ckyard):	10 feet			Hvy	Trucks:	8	feet	
C.L. Dist. To Observer (Structure): 132 feet					Pad Elevation: 0.0 feet					
Barrier Dist. To Observer (Structure): 20 feet					(Observe	r Height	s Above I	Pad Elev	ation
Road Grade: 0.00 %						E	Exterior:	5	feet	
Left View: -90 degrees				es		Firs	st Floor:	5.5	feet	
	Rig	ht View:	90 degre	es		Secon	d Floor:	14	feet	
		FHW	A NOISE N			ONS				
								Barrie	er Attenu	ation
	REMEL	Traffic Flo	ow D	istance	Finite	Road	Grade	Exterior	1st Flr	2nd Flr
Autos:	67.36	3.48		-5.67	-1.2	20	0.00	0	-0.177	0
Med Trucks:	76.31	-11.17		-5.67	-1.2	20	0.00	0	-0.118	0
Hvy Trucks:	81.16	-10.91		-5.67	-1.2	20	0.00	0	0	0
		u	JNMITIGA ⁻	FED NOIS	E LEVELS					
	Leq Peak Hour	Leq Day	y Leo	q Evening	Leq Nigh	t	L	dn	CN	IEL
Autos:	64.0	61.8		59.3	54.	.4	62	2.8	63	3.3
Med Trucks:	58.3	41.8		38.3	33.	.5	42	2.3	42	2.7
Hvy Trucks:	63.4	47.2		41.6	38.	.6	4	7.4	47	7.7
Traffic Noise:	67.3	62.0		59.4	54.	.6	6	3.0	63	3.5
			MITIGATE	ED NOISE	LEVELS					
	Leq Peak Hour	Leq Day	y Leo	q Evening	Leq N	light	L	dn	CN	IEL
Autos:	64.0	61.8		59.3	54.	.4	62	2.8	63	3.3
Med Trucks:	58.3	41.8		38.3	33.	.5	42	2.3	42	2.7
Hvy Trucks:	63.4	47.2		41.6	38.	.6	4	7.4	47	7.7
Traffic Noise:	67.3	62.0		59.4	54.	.6	6	3.0	63	3.5

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL										
Scenario:	Existing					Project	t Name:	Fresno	GP		
Road Type:	6-Lane Express	way				Job N	lumber:	31	680016		
51		,	NOISE		IPUTS						
	Highway Data		NOIOL				Vehic	No Mix			
Aver	age Daily Traffic:	72 800 vet	nicles				Dav	Evenina	Night	Daily	
Pe	ak Hour Volume:	7.280 veh	nicles			Autos:	73.3%	10.2%	10.0%	93.4%	
	Vehicle Speed:	50 mp	h		Medium	Trucks:	2.7%	0.3%	0.3%	3.2%	
Near/Fa	r Lane Distance:	72 fee	et		Heavy	Trucks:	2.9%	0.2%	0.3%	3.4%	
	Site Dat	ta					Eleva	ations			
	Barrier	Height:	6 feet		Barrier	Base El	evation:	0.0	feet		
	Barrier Type(Wall	/Berm):	Wall		=	Road El	evation:	0.0	feet	=	
Si	ite Conditions(Ha	rd/Soft):	Soft			Noise So	ource El	evation al	ove Ro	ad	
Centerl	line (C.L.) Dist. to	Barrier:	100 feet				Autos:	0	feet		
C.L. Dist.	To Observer (Bad	ckyard):	110 feet			Med	Trucks:	2.3	feet		
Barrier Dist.	To Observer (Bad	ckyard):	10 feet		-	Hvy	Trucks:	8	feet	_	
C.L. Dist.	To Observer (Str	ucture):	120 feet			Pad El	evation:	0.0	feet		
Barrier Dist. To Observer (Structure): 20 feet						Observe	r Height	s Above I	Pad Elev	ation/	
Road Grade: 0.00 %							Exterior:	5	feet		
Left View: -90 degrees				es		Fir	st Floor:	5.5	feet		
	Rig	ht View:	90 degre	es		Secor	d Floor:	14	feet		
		FHW	A NOISE N		ALCULATI	ONS					
								Barrie	er Attenu	uation	
	REMEL	Traffic Flo	ow D	listance	Finite	Road	Grade	Exterior	1st Flr	2nd Flr	
Autos:	71.12	6.03		-4.88	-1.:	20	0.00	-6.94	-6.08	0	
Med Trucks:	78.79	-8.62		-4.88	-1.:	20	0.00	-6.87	-5.7	0	
Hvy Trucks:	83.02	-8.36		-4.88	-1.:	20	0.00	-5.7	-4.9	0	
		U	JNMITIGA ⁻	FED NOIS	E LEVELS	6					
	Leq Peak Hour	Leq Day	y Leo	q Evening	Leq Nigh	nt	L	dn	CN	IEL	
Autos:	71.1	68.9		66.4	61	.5	69	9.9	7().4	
Med Trucks:	64.1	47.6		44.1	39	.3	48	8.1	48	3.5	
Hvy Trucks:	68.6	52.4		46.8	43	.8	52	2.6	52	2.9	
Traffic Noise:	73.5	69.1		66.5	61	.6	7	0.0	70).5	
			MITIGATE	ED NOISE	LEVELS						
	Leq Peak Hour	Leq Day	y Leo	q Evening	Leq N	Night	L	dn	CN	IEL	
Autos:	64.1	62.0		59.4	54	.6	6	3.0	63	3.5	
Med Trucks:	57.2	40.7		37.2	32	.5	4	1.2	41	1.6	
Hvy Trucks:	62.9	46.7		41.1	38	.1	40	6.9	47	7.2	
I raffic Noise:	67.0	62.1		59.5	54	.7	6	3.1	63	3.6	

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL									
Scenario:	Existing Plus Pro	oiect			Proiec	t Name:	Fresno	GP		
Road Type:	6-Lane Express	wav			Job N	lumber:	31	680016		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-)	NO		DUTS		-			
	Highway Data		NC			Vohid	olo Mix			
Avera	ang Daily Traffic	88 100	vehicles			Dav		Night	Daily	
Pea	ak Hour Volume:	8 810	vehicles		Autos:	73.3%	10.2%	10.0%	93.4%	
1 00	Vehicle Speed:	50	mph		Medium Trucks:	2 7%	0.3%	0.3%	3.2%	
Near/Fa	r Lane Distance:	83	feet		Heavy Trucks:	2.9%	0.2%	0.3%	3.4%	
	Site Da	ta i				Flov	ations			
	Barrier	Height:	6	feet	Barrier Base E	levation:	0.0	feet		
	Barrier Type(Wal	/Berm):	Wall		Road E	levation:	0.0	feet	-	
Si	te Conditions(Ha	rd/Soft):	Soft		Noise S	ource El	evation al	ove Ro	ad	
Centerli	ine (C.L.) Dist. to	Barrier:	100 1	feet		Autos:	0	feet		
C.L. Dist.	To Observer (Ba	ckyard):	110 1	feet	Med	Trucks:	2.3	feet		
Barrier Dist.	To Observer (Ba	ckyard):	10 1	feet	Hvy	Trucks:	8	feet		
C.L. Dist. To Observer (Structure): 120 feet					Pad Elevation: 0.0 feet					
Barrier Dist. To Observer (Structure): 20 feet					Observer Heights Above Pad Elevation					
	Road		Exterior:	5	feet					
Left View: -90 degrees					Fir	st Floor:	5.5	feet		
	Rig	ht View:	90 (degrees	Secor	nd Floor:	14	feet		
		FH		SE MODEL CA	LCULATIONS					
							Barrie	er Attenu	uation	
	REMEL	Traffic	Flow	Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr	
Autos:	71.12	6.8	36	-4.75	-1.20	0.00	-6.94	-6.08	0	
Med Trucks:	78.79	-7.7	79	-4.75	-1.20	0.00	-6.87	-5.7	0	
Hvy Trucks:	83.02	-7.	53	-4.75	-1.20	0.00	-5.7	-4.9	0	
			UNMIT	IGATED NOISE	E LEVELS					
	Leq Peak Hour	Leq	Day	Leq Evening	Leq Night	L	.dn	CN	IEL	
Autos:	72.0	69	.9	67.3	62.5	7	0.9	71	1.4	
Med Trucks:	65.1	48	.6	45.1	40.3	4	9.0	49	9.5	
Hvy Trucks:	69.5	53	.4	47.8	44.8	5	3.6	53	3.9	
Traffic Noise:	74.5	70	.0	67.4	62.6	7	1.0	7′	1.5	
			ΜΙΤΙΟ	GATED NOISE	LEVELS					
	Leq Peak Hour	Leq	Day	Leq Evening	Leq Night	L	.dn	CN	IEL	
Autos:	65.1	62	.9	60.4	55.5	6	3.9	64	4.4	
Med Trucks:	58.2	41	.7	38.2	33.4	4	2.2	42	2.6	
Hvy Trucks:	63.8	47	.7	42.1	39.1	4	7.9	48	3.2	
Traffic Noise:	68.0	63	.1	60.5	55.7	6	4.1	64	4.5	

FHWA-RD-7	7-108 HIGHW	AY TRAFFIC	NOISE PRED	DICTIC	ON MOE	DEL		
Scenario: Cumulative Pl	us Project		Projec	t Name:	Fresno	GP		
Road Type: 6-Lane Expres	sway		Job N	lumber:	31	680016		
51 1	, N	OISE MODEL IN	PUTS					
Highway Da	ta			Vohio	No Mix			
Average Daily Traffic	. 91 400 vehicles	2		Dav	Evening	Night	Daily	
Peak Hour Volume	e: 9 140 vehicles	5	Autos:	73.3%	10.2%	10.0%	93.4%	
Vehicle Speed	1: 50 mph	•	Medium Trucks:	2 7%	0.3%	0.3%	3.2%	
Near/Far Lane Distance	e: 83 feet		Heavy Trucks:	2.9%	0.2%	0.3%	3.4%	
Site)ata		Floyations					
Barrie	er Height: 6	feet	Barrier Base F	levation.		feet		
Barrier Type(W	all/Berm): Wall		Road E	levation:	0.0	feet	-	
Site Conditions(F	lard/Soft): Soft		Noise S	ource El	evation al	bove Ro	ad	
Centerline (C.L.) Dist.	to Barrier: 100	feet		Autos:	0	feet		
C.L. Dist. To Observer (E	Backyard): 110	feet	Med	Trucks:	2.3	feet		
Barrier Dist. To Observer (E	Backyard): 10	feet	Hvy	Trucks:	8	feet		
C.L. Dist. To Observer (S	Structure): 120	feet	Pad Elevation: 0.0 feet					
Barrier Dist. To Observer (S	Structure): 20	feet	Observer Heights Above Pad Elevation					
Ro	ad Grade: 0.00	%		Exterior:	5	feet		
	Left View: -90	degrees	Fir	st Floor:	5.5	feet		
R	ight View: 90	degrees	Secor	nd Floor:	14	feet		
	FHWA NO	DISE MODEL CA	LCULATIONS					
					Barrie	er Attenu	uation	
REMEL	Traffic Flow	Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr	
Autos: 71.12	7.02	-4.75	-1.20	0.00	-6.94	-6.08	0	
Med Trucks: 78.79	-7.63	-4.75	-1.20	0.00	-6.87	-5.7	0	
Hvy Trucks: 83.02	-7.37	-4.75	-1.20	0.00	-5.7	-4.9	0	
	UNMI	TIGATED NOISE	E LEVELS					
Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	dn	CN	NEL	
Autos: 72.2	70.0	67.5	62.6	7	1.0	7′	1.5	
Med Trucks: 65.2	48.7	45.2	40.4	49	9.2	49	9.6	
Hvy Trucks: 69.7	53.5	47.9	44.9	5	3.8	54	4.1	
Traffic Noise: 74.7	70.2	67.6	62.7	7	1.1	7′	1.6	
	МІТ	IGATED NOISE	LEVELS					
Leq Peak Hou	r Leq Day	Leq Evening	Leq Night	L	dn	CN	NEL	
Autos: 65.3	63.1	60.6	55.7	6	4.1	64	4.6	
Med Trucks: 58.3	41.9	38.3	33.6	42	2.3	42	2.8	
Hvy Trucks: 64.0	47.8	42.2	39.2	4	8.1	48	8.4	
Traffic Noise: 68.2	63.3	60.7	55.8	6	4.2	64	4.7	

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL										
Scenario:	Existing			Projec	t Name:	Fresno	GP				
Road Type:	Scenic Expressv	vav		Job N	Number:	31	680016				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	,	NOISE MODEL IN	PUTS							
	Highway Data				Vehic	le Mix					
Avera	age Daily Traffic:	53.100 vehic	cles		Dav	Evenina	Niaht	Daily			
Pe	ak Hour Volume:	5,310 vehic	cles	Autos:	73.3%	10.2%	10.0%	93.4%			
_	Vehicle Speed:	50 mph		Medium Trucks:	2.7%	0.3%	0.3%	3.2%			
Near/Fa	r Lane Distance:	90 feet		Heavy Trucks:	2.9%	0.2%	0.3%	3.4%			
	Site Dat	ta			Eleva	ations					
	Barrier	Height:	4 feet	Barrier Base E	levation:	0.0	feet				
	Barrier Type(Wall	/Berm): W	/all	Road E	levation:	0.0	feet	-			
Si	ite Conditions(Ha	rd/Soft): S	Soft	Noise S	ource El	evation al	bove Ro	ad			
Centerl	ine (C.L.) Dist. to	Barrier: 1	24 feet		Autos:	0	feet				
C.L. Dist.	To Observer (Bad	ckyard): 1	34 feet	Med	Trucks:	2.3	feet				
Barrier Dist.	To Observer (Bad	ckyard):	10 feet	Hvy	[,] Trucks:	8	feet	_			
C.L. Dist.	To Observer (Str	44 feet	Pad Elevation: 0.0 feet								
Barrier Dist.	To Observer (Str	ucture):	20 feet	Observer Heights Above Pad Elevation							
	Road	Grade: 0.	.00 %		Exterior:	5	feet				
	Le	eft View:	-90 degrees	Fir	st Floor:	5.5	feet				
	Rig	ht View:	90 degrees	Secor	nd Floor:	14	feet				
		FHWA	NOISE MODEL CA	LCULATIONS							
						Barrie	er Attenu	ation			
	REMEL	Traffic Flow	v Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr			
Autos:	71.12	4.66	-6.14	-1.20	0.00	-4.4	-4.5	0			
Med Trucks:	78.79	-9.99	-6.14	-1.20	0.00	-3.8	-3.8	0			
Hvy Trucks:	83.02	-9.73	-6.14	-1.20	0.00	-1.355	-1.175	0			
		UN	IMITIGATED NOISE	E LEVELS							
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	.dn	CN	IEL			
Autos:	68.4	66.3	63.8	58.9	6	7.3	67	7.8			
Med Trucks:	61.5	45.0	41.5	36.7	4	5.4	45	5.9			
Hvy Trucks:	66.0	49.8	44.2	41.2	50	0.0	50).3			
Traffic Noise:	70.9	66.4	63.8	59.0	6	7.4	67	7.9			
		N	NITIGATED NOISE	LEVELS							
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	.dn	CN	IEL			
Autos:	64.0	61.9	59.4	54.5	62	2.9	63	3.4			
Med Trucks:	57.7	41.2	37.7	32.9	4	1.6	42	2.1			
Hvy Trucks:	64.6	48.4	42.8	39.8	48	8.6	48	3.9			
Traffic Noise:	67.8	62.1	59.5	54.7	6	3.1	63	3.6			

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL									
Scenario:	Existing Plus Pro	oject		Projec	t Name:	Fresno	GP			
Road Type:	Scenic Express	vay		Job I	Number:	31	680016			
51		, N	OISE MODEL IN	PUTS						
	Highway Data				Vehic	No Mix				
Aver	age Daily Traffic:	75 200 vehicles	\$		Dav	Evening	Night	Daily		
Pe	ak Hour Volume:	7.520 vehicles	5	Autos:	73.3%	10.2%	10.0%	93.4%		
10	Vehicle Speed:	50 mph		Medium Trucks:	2.7%	0.3%	0.3%	3.2%		
Near/Fa	r Lane Distance:	90 feet		Heavy Trucks:	2.9%	0.2%	0.3%	3.4%		
	Site Dat	ta		,	Flev	ations				
Barrier Height: 5 feet Barrier Base Elevation: 0.0 f										
	Barrier Type(Wal	l/Berm): Wall		Road E	levation:	0.0	feet	-		
S	ite Conditions(Ha	rd/Soft): Soft	t	Noise S	ource El	evation a	bove Ro	ad		
Center	line (C.L.) Dist. to	Barrier: 124	feet		Autos:	0	feet			
C.L. Dist.	To Observer (Ba	ckyard): 134	feet	Med	Trucks:	2.3	feet			
Barrier Dist.	To Observer (Ba	ckyard): 10) feet	Hvy	Trucks:	8	feet			
C.L. Dist.	To Observer (Str	ucture): 144	feet	Pad Elevation: 0.0 feet						
Barrier Dist.	To Observer (Str	ucture): 20) feet	Observe	er Height	ts Above I	Pad Elev	/ation		
	Road	Grade: 0.00)%		Exterior:	5	feet			
	Le	eft View: -90) degrees	Fir	st Floor:	5.5	feet			
	Rig	ht View: 90) degrees	Secor	nd Floor:	14	feet			
		FHWA NO	DISE MODEL CA	LCULATIONS						
						Barrie	er Attenu	uation		
	REMEL	Traffic Flow	Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr		
Autos:	71.12	6.17	-6.14	-1.20	0.00	-5.1	-4.9	0		
Med Trucks:	78.79	-8.48	-6.14	-1.20	0.00	-4.9	-4.9	0		
Hvy Trucks:	83.02	-8.22	-6.14	-1.20	0.00	-4.9	-4.2	0		
		UNM	ITIGATED NOISE	E LEVELS						
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	.dn	CN	IEL		
Autos:	69.9	67.8	65.3	60.4	6	8.8	69	9.3		
Med Trucks:	63.0	46.5	43.0	38.2	4	7.0	47	7.4		
Hvy Trucks:	67.5	51.3	45.7	42.7	5	1.5	5	1.8		
Traffic Noise:	72.4	65.3	60.5	6	8.9	69	9.4			
		МІТ	IGATED NOISE	LEVELS						
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	.dn	CN	IEL		
Autos:	64.8	60.2	55.3 63.7			64.2				
Med Trucks:	58.1	41.6	38.1	33.3 42.1			42	2.5		
Hvy Trucks:	62.6	46.4	40.8	37.8 46.6 46			5.9			
Traffic Noise:	67.4	62.8	60.2	55.4 63.8 64.3				4.3		

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL										
Scenario:	Existing Plus Pro	piect			Proiec	t Name:	Fresno (GP			
Road Type:	SR-41 Freeway	-,			Job N	Number:	3168001	6			
, , , , , , , , , , , , , , , , , , ,	,		NOISE		IPLITS			-			
	Highway Data		NOIDE			Vehic	No Mix				
Aver	age Daily Traffic:	###### v	ehicles			Dav	Evening	Night	Daily		
Pe	ak Hour Volume:	10.430 v	vehicles		Autos:	65.8%	13.5%	15.8%	95.0%		
	Vehicle Speed:	65 n	nph		Medium Trucks:	1.5%	0.3%	0.8%	2.5%		
Near/Fa	r Lane Distance:	120 f	eet		Heavy Trucks:	1.4%	0.1%	1.0%	2.5%		
	Site Da	ta		•	Eleva	ations					
	Barrier	Height:	8 feet		Barrier Base E	levation:	0.0	feet			
	Barrier Type(Wal	Road E	levation:	0.0	feet						
S	ite Conditions(Ha	rd/Soft):	Soft		Noise S	ource El	evation al	ove Ro	ad		
Center	line (C.L.) Dist. to	Barrier:	140 feet			Autos:	0	feet			
C.L. Dist.	To Observer (Ba	ckyard):	150 feet		Med	Trucks:	2.3	feet			
Barrier Dist.	To Observer (Ba	ckyard):	10 feet		Hvy	Trucks:	8	feet	_		
C.L. Dist.	To Observer (Str	ucture):	160 feet		Pad Elevation: 0.0 feet						
Barrier Dist.	To Observer (Str	ucture):	20 feet		Observe	er Height	s Above I	Pad Elev	ation		
	Road	Grade:	0.00 %			Exterior:	5	feet			
	Le	eft View:	-90 degre	ees	Fir	st Floor:	5.5	feet			
	Rig	ht View:	90 degre	ees	Secor	nd Floor:	14	feet			
		FH	WA NOISE I		LCULATIONS						
							Barrie	er Attenu	ation		
	REMEL	Traffic	Flow D	Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr		
Autos:	75.54	6.5	3	-6.70	-1.20	0.00	-10.58	-8.8	-0.182		
Med Trucks:	81.71	-9.2	.7	-6.70	-1.20	0.00	-10.94	-8.95	-0.13		
Hvy Trucks:	85.21	-9.2	.7	-6.70	-1.20	0.00	-10.34	-7.65	0		
			UNMITIGA	TED NOIS	E LEVELS						
	Leq Peak Hour	Leq D	Day Lee	q Evening	Leq Night	L	dn	CN	IEL		
Autos:	74.2	71.0	6	70.7	66.6	74	4.1	74	4.6		
Med Trucks:	64.5	45.	5	44.1	43.7	50	0.4	50).7		
Hvy Trucks:	68.0	44.4	48.5	54	4.8	54	1.9				
I raffic Noise:	affic Noise: 75.5 71.6 70.7					74	4.2	74	4.7		
			MITIGATI	ED NOISE	LEVELS						
	Leq Peak Hour	Leq D	Day Lee	q Evening	Leq Night	L	dn	CN	IEL		
Autos:	63.6	61.0	0	60.1	56.0 63.5			64	4.0		
Med Trucks:	53.6	34.	5	33.1	32.8 39.5			39	9.7		
Hvy Trucks:	57.7	38.	3	34.1	38.2 44.5 44.6			4.6			
I rattic Noise:	64.9	61.	U	60.1	56.1	6	3.6	64	i .1		

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL									
Scenario:	Cumulative Plus	Proiect			Proiec	t Name:	Fresno	GP		
Road Type:	SR-41 Freeway	ejeet			Job	Number:	31	680016		
			NC							
	Lishway Data		NC	JSE MODEL IN	19013	Vahid	ala Mix			
Avor		l ,	109 400	vohieles		Dov		Night	Daily	
Avera	aye Daily Hallic.	10 8/0	vohiclos	venicies	Autoe	65.8%	13.5%	15 8%	05.0%	
re.		10,040	mph		Modium Trucks:	1 5%	0.3%	0.8%	95.0%	
Near/Fa	r Lane Distance:	120	foot		Heavy Trucks:	1.3%	0.3%	0.0%	2.5%	
incal/1 a		120	1001		Ticavy Trucks.	T.+70	0.170	1.070	2.070	
	Site Da	ta Hojahti	0	foot	Parriar Pasa E	Elevation		foot		
		leel	Dainei Dase E	levation.	0.0	foot	-			
S	Site Conditions (Hard/Soft): Soft						0.0 Avation al		be	
Center	line (C.L.) Dist. to	Barrier	140	feet	10036 0			feet	au	
	To Observer (Ba	ckvard):	150	feet	Mec	Trucks:	23	feet		
Barrier Dist	To Observer (Ba	ckvard):	10	feet	Hvy	/ Trucks:	8	feet		
C.L. Dist.	To Observer (Str	ucture):	160	feet	Pad Elevation: 0.0 feet					
Barrier Dist.	To Observer (Str	ucture):	20	feet	Observe	er Heiaht	ts Above I	Pad Elev	vation	
	Road	Grade:	0.00	%		Exterior:	5	feet		
	Le	eft View:	-90	degrees	Fir	st Floor:	5.5	feet		
	Rig	ht View:	90	degrees	Secor	nd Floor:	14	feet		
		Eŀ								
					LOOLAHONO		Barrie	er Atteni	uation	
	REMEL	Traffic	Flow	Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr	
Autos:	75.54	6.6	69	-6.70	-1.20	0.00	-10.58	-8.8	-0.182	
Med Trucks:	81.71	-9.	10	-6.70	-1.20	0.00	-10.94	-8.95	-0.13	
Hvy Trucks:	85.21	-9.	10	-6.70	-1.20	0.00	-10.34	-7.65	0	
			UNMIT	IGATED NOISI	E LEVELS					
	Leq Peak Hour	Leq	Day	Leq Evening	Leq Night	L	.dn	CN	IEL	
Autos:	74.3	71	.7	70.9	66.8	7	4.3	74	4.8	
Med Trucks:	64.7	45	.6	44.2	43.9	5	0.6	50	0.8	
Hvy Trucks:	Hvy Trucks: 68.2 48.8 44.6					5	5.0	55	5.1	
Traffic Noise:	Traffic Noise: 75.6 71.8 70.9				66.9	7	4.4	74	4.8	
		GATED NOISE	LEVELS							
	Leq Peak Hour	Leq	Day	Leq Evening	ng Leq Night Ldn			CN	IEL	
Autos:	63.8 61.1 60.3			60.3	56.2 63.7			64.2		
Med Trucks:	53.8	34.7 33.3			33.0 39.6			39	9.9	
Hvy Trucks:	ucks: 57.9 38.4 34.3				38.3 44.7 44.8			4.8		
Traffic Noise:	65.1	61	.2	60.3	56.3 63.8 64.3				4.3	

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL											
Scenario:	Existing				Projec	t Name:	Fresno	ЭР				
Road Type:	SR-180 Freeway	/			Job N	umber:	31	680016				
			N	DISE MODEL IN	PUTS							
	Highway Data					Vehic	le Mix					
Avera	age Daily Traffic:	68.740	vehicles			Dav	Evenina	Niaht	Dailv			
Pea	ak Hour Volume:	6,874	vehicles		Autos:	53.3%	10.9%	12.8%	77.0%			
	Vehicle Speed:	65	mph		Medium Trucks:	2.9%	0.5%	1.4%	4.8%			
Near/Fa	r Lane Distance:	140	feet		Heavy Trucks:	9.9%	1.0%	7.3%	18.2%			
	Site Dat	a				Eleva	ations					
	Barrier	Height:	7	feet	Barrier Base E	levation:	0.0	feet				
	Barrier Type(Wall	/Berm):	Wall		Road E	levation:	0.0	feet	-			
Si	ite Conditions(Har	rd/Soft):	Soft		Noise S	ource El	evation al	oove Ro	ad			
Centerl	ine (C.L.) Dist. to	Barrier:	180	feet		Autos:	0	feet				
C.L. Dist.	To Observer (Bad	ckyard):	190	feet	Med	Trucks:	2.3	feet				
Barrier Dist.	To Observer (Bad	ckyard):	10	feet	<u> </u>	Trucks:	8	feet	-			
C.L. Dist.	To Observer (Str	ucture):	200	feet	Pad Elevation: 0.0 feet							
Barrier Dist.	To Observer (Str	ucture):	20	feet	Observe	er Height	S Above I	ad Elev	ation/			
Koad Grade. 0.00 % Exterior. 5 feet												
	Le Rial	ht View.	-90	degrees	FII Secor	od Floor:	5.5 14	foot				
	Kigi	nt view.	50	degrees	0000		14					
		F	HWA NO	ISE MODEL CA	LCULATIONS		Derri		tinu			
	DEMEI	Troffic	Flow	Distance	Einito Road	Grada	Barrie	1 of Elr	ation 2nd Elr			
Autos:	75.54	11a1110	2 FIUW 80	-8.33			-8.6	-6.9/	20 11			
Med Trucks:	81 71	-8	22	-8.33	-1 20	0.00	-8.95	-6.94	0.11			
Hvv Trucks:	85.21	-2.	.47	-8.33	-1.20	0.00	-8.2	-6	0			
, , , , , , , , , , , , , , , , , , ,			UNMI	TIGATED NOISI								
	Leg Peak Hour	Lea	Dav	Lea Evenina	Lea Niaht	L	dn	CN	IEL			
Autos:	69.8	66	5.3	65.4	61.3	68	8.8	69	9.4			
Med Trucks:	64.0	47	7.7	46.3	46.0	52	2.7	52	2.9			
Hvy Trucks:	73.2	62	2.4	58.2	62.3	68	8.6	68	3.7			
Traffic Noise:	75.2	67	7.8	66.2	64.9	7 [.]	1.8	72	2.1			
			МІТІ	GATED NOISE	LEVELS							
	Leq Peak Hour	Leq	Day	Leq Evening	Leq Night	L	dn	CN	IEL			
Autos:	Autos: 61.2 57.7 56.8				52.7 60.2		0.2	60.8				
Med Trucks:	55.0	38.8 37		37.4	37.1 43.7		3.7	44.0				
Hvy Trucks:	/ Trucks: 65.0 54.2 50.0				54.1 60.4		60.5					
Traffic Noise:	66.8	59	9.3	57.7	56.5	6	3.4	63	3.7			

FH	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL									
Scenario: Ex	kisting Plus Pro	piect			Proiec	t Name:	Fresno	GP		
Road Type: SF	R-180 Freeway	/			Job N	lumber:	31	680016		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			NC		PUTS		-			
	Highway Data				1013	Vohio	olo Mix			
Average	Paily Traffic:	97 700	vehicles			Dav	Evening	Night	Daily	
Peak	Hour Volume:	9 770	vehicles		Autos:	53.3%	10.9%	12.8%	77 0%	
V	ehicle Speed:	65 ו	mph		Medium Trucks:	2.9%	0.5%	1.4%	4.8%	
Near/Far L	ane Distance:	140 f	feet		Heavy Trucks:	9.9%	1.0%	7.3%	18.2%	
	Site Dat	а				Elev	ations			
	Barrier	Height:	Barrier Base E	levation:	0.0	feet				
Ba	arrier Type(Wall		Road E	levation:	0.0	feet	-			
Site	Conditions(Hai	d/Soft):	Soft		Noise S	ource El	evation al	ove Ro	ad	
Centerline	e (C.L.) Dist. to	Barrier:	180	feet		Autos:	0	feet		
C.L. Dist. To	o Observer (Bad	ckyard):	190	feet	Med	Trucks:	2.3	feet		
Barrier Dist. To	Observer (Bad	ckyard):	10	feet	Hvy	Trucks:	8	feet	_	
C.L. Dist. To	Observer (Str	ucture):	200	feet	Pad Elevation: 0.0 feet					
Barrier Dist. To	o Observer (Str	ucture):	20	feet	Observe	er Height	ts Above I	Pad Elev	ation/	
	Road	Grade:	0.00	%	C :-	Exterior:	5	feet		
	Le	at View:	-90	degrees	FI	st Floor:	5.5 14	feet		
	Rigi	it view.	90	degrees	Secol		14	leel		
		FH	IWA NO	ISE MODEL CA	LCULATIONS					
		Troffie	Flaw	Distance	Finite Deed	Orada	Barrie	er Attenu	ation	
Autoo			FIOW	Distance		Grade	Exterior	TSt FIF		
Autos. Med Trucks:	75.54	-67	າວ 7∩	-0.33	-1.20	0.00	-0.0	-0.94	-0.11	
Hvy Trucks:	85 21	-0.9	94	-8.33	-1 20	0.00	-8.2	-6	0	
They mache	00121	0.0				0.00	0.2	<u> </u>	Ű	
				Log Evoning	<u>LEVELS</u>		dn			
Autos:	71 3	<u> </u>	2ay 8	67.0	62 9	7	0.4	70		
Med Trucks:	65.5	49	.0	47.9	47.6	5	4 2	54	45	
Hvv Trucks:	74.7	63.	.9	59.8	63.8	7	0.2	7().3	
Traffic Noise:	76.7	67.8	66.4	7	3.3	73	3.6			
	LEVELS									
Le	eg Peak Hour	Lea I	Dav	Leg Evenina	Leg Night	L	.dn	CN	IEL	
Autos:	62.7	59.	.2	58.4	54.3 61.8			62.3		
Med Trucks:	56.5 40.3 38.9			38.9	38.6 45.3			45	5.5	
Hvy Trucks:	66.5	51.6	55.6 62.0 62.			2.1				
Traffic Noise:	68.3	60.	.9	59.2	58.0 64.9 65.2				5.2	

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL									
Scenario:	Cumulative Plus	Project		Proiec	t Name:	Fresno	GP			
Road Type:	SR-180 Freeway	/		Job N	lumber:	31	680016			
, , , , , , , , , , , , , , , , , , ,		, 				-				
	Highway Data				Vobi	olo Mix				
Δνοτ	ang Daily Traffic:	99 700 vehic			Dav		Night	Daily		
Pe	age Daily Hame.	9 970 vehic		Autos:	53 3%	10.9%	12.8%	77.0%		
10	Vehicle Speed:	65 mph		Medium Trucks:	2 9%	0.5%	1 4%	4.8%		
Near/Fa	r Lane Distance:	140 feet		Heavy Trucks:	9.9%	1.0%	7.3%	18.2%		
	Site Da	ta			Flov	ations				
	Barrier	Height:	Barrier Base F	levation:	0.0	feet				
	Barrier Type(Wal	l/Berm): W	/all	Road E	levation:	0.0	feet	-		
S	ite Conditions(Ha	rd/Soft): S	Soft	Noise S	ource El	evation al	ove Ro	ad		
Center	line (C.L.) Dist. to	Barrier: 1	80 feet		Autos:	0	feet			
C.L. Dist.	To Observer (Ba	ckyard): 1	90 feet	Med	Trucks:	2.3	feet			
Barrier Dist.	To Observer (Ba	ckyard):	10 feet	Hvy Trucks: 8 feet						
C.L. Dist.	To Observer (Str	ucture): 2	200 feet	Pad Elevation: 0.0 feet						
Barrier Dist.	To Observer (Str	ucture):	20 feet	Observe	er Height	ts Above I	Pad Elev	/ation		
	Road	I Grade: 0.	.00 %		Exterior:	5	feet			
	Le	eft View: -	-90 degrees	Fir	st Floor:	5.5	feet			
	Rig	ht View:	90 degrees	Secor	nd Floor:	14	feet			
		FHWA	NOISE MODEL CA	LCULATIONS						
						Barrie	er Attenu	uation		
	REMEL	Traffic Flow	v Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr		
Autos:	75.54	5.42	-8.33	-1.20	0.00	-8.6	-6.94	-0.11		
Med Trucks:	81.71	-6.61	-8.33	-1.20	0.00	-8.95	-6.94	0		
Hvy Trucks:	85.21	-0.85	-8.33	-1.20	0.00	-8.2	-6	0		
		UN	IMITIGATED NOIS	E LEVELS						
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	.dn	CN	NEL		
Autos:	71.4	67.9	67.0	63.0	7	0.5	7′	1.0		
Med Trucks:	65.6	49.4	48.0	47.6	5	4.3	54	4.6		
Hvy Trucks:	74.8	64.0	59.8	63.9	7	0.2	70	0.4		
Traffic Noise:	76.8	67.8	66.5	7	3.4	73	3.7			
		N	ITIGATED NOISE	LEVELS						
	Leq Peak Hour	Leq Day	Leq Evening	ig Leq Night Ldn			CNEL			
Autos:	utos: 62.8 59.3 58.4			54.4 61.9			62.4			
Med Trucks:	56.6 40.4 39.0			38.7 45.3			45.6			
Hvy Trucks:	66.6	55.8	51.6	55.7 62.0 62.2		2.2				
I raffic Noise:	68.4	61.0	59.3	58.1 65.0 65.3				5.3		

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL											
Scenario:	Existing				Projec	t Name:	Fresno	GP				
Road Type:	SR-99 Freeway				Job N	umber:	31	680016				
			NO	ISE MODEL IN	PUTS							
	Highway Data		NO			Vehic	No Mix					
Avera	age Daily Traffic	58 100 v	ehicles			Dav	Evening	Night	Daily			
Pe	ak Hour Volume:	5.810 v	ehicles		Autos:	53.3%	10.9%	12.8%	77.0%			
	Vehicle Speed:	65 m	nph		Medium Trucks:	2.9%	0.5%	1.4%	4.8%			
Near/Fa	r Lane Distance:	80 fe	et		Heavy Trucks:	9.9%	1.0%	7.3%	18.2%			
	Site Dat	а			<u>,</u>	Eleva	ations					
	Barrier	Height:	7 f	eet	Barrier Base E	levation:	0.0	feet				
	Barrier Type(Wall	/Berm):	Wall		Road E	levation:	0.0	feet	-			
Si	ite Conditions(Har	rd/Soft):	Soft		Noise S	ource El	evation al	bove Ro	ad			
Centerl	ine (C.L.) Dist. to	Barrier:	110 f	eet		Autos:	0	feet				
C.L. Dist.	To Observer (Bad	ckyard):	120 f	Med	Trucks:	2.3	feet					
Barrier Dist.	To Observer (Bad	ckyard):	10 f	eet	Hvy	[,] Trucks:	8	feet	_			
C.L. Dist.	To Observer (Str	ucture):	130 f	eet	Pad E	levation:	0.0	feet				
Barrier Dist.	To Observer (Str	Observe	er Height	ts Above I	Pad Elev	ation/						
Road Grade: 0.00 % Exterior: 5 feet												
	Le	ft View:	-90 c	degrees	Fir	st Floor:	5.5	feet				
	Rigi	nt View:	90 c	degrees	Secor	nd Floor:	14	feet				
		FH\	WA NOI	SE MODEL CA	LCULATIONS							
							Barrie	er Attenu	uation			
	REMEL	Traffic I	Flow	Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr			
Autos:	75.54	3.98	3	-5.43	-1.20	0.00	-9.03	-7.55	-0.148			
Med Trucks:	81.71	-10.3	35	-5.43	-1.20	0.00	-9.18	-7.43	0			
Hvy Trucks:	85.21	-14.0)3	-5.43	-1.20	0.00	-8.05	-5.9	0			
			UNMIT	IGATED NOISE	ELEVELS							
	Leq Peak Hour	Leq D	Day	Leq Evening	Leq Night	L	.dn	CN	IEL			
Autos:	72.9	70.3	3	69.4	65.3	72	2.8	73	3.3			
Med Trucks:	64.7	47.1	1	45.7	45.4	52	2.0	52	2.3			
Hvy Trucks:	64.5	38.7	42.8	49	9.1	49	9.2					
Traffic Noise:	74.0	69.4	65.4	72	2.9	7:	3.4					
			MITIO	GATED NOISE	LEVELS							
	Leq Peak Hour	Leq D	Day	Leq Evening	Leq Night	L	.dn	CN	IEL			
Autos:	Autos: 63.9 61.3 60.4				56.3 63.8			64.3				
Med Trucks:	55.5	37.9 36.5			36.2 42.9			43.1				
Hvy Trucks:	56.5	30.7	<u> </u>			1.2						
I raffic Noise:	65.1	61.3	3	60.4	56.4	6	3.9	64	4.4			

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL										
Scenario:	Existing Plus Pro	oject			Projec	t Name:	Fresno	GP			
Road Type:	SR-99 Freeway				Job N	Number:	31	680016			
51	,		NC		PUTS						
	Highway Data		NC			Vohid	olo Mix				
Aver	age Daily Traffic:	98 700	vehicles			Dav	Evening	Night	Daily		
Pe	ak Hour Volume:	9 870	vehicles		Autos:	53.3%	10.9%	12.8%	77 0%		
1.0	Vehicle Speed:	65	mph		Medium Trucks:	2.9%	0.5%	1.4%	4.8%		
Near/Fa	r Lane Distance:	80	feet		Heavy Trucks:	9.9%	1.0%	7.3%	18.2%		
	Site Dat	ła			, , , , , , , , , , , , , , , , , , , ,	Flev	ations				
	0.0	feet									
	Barrier Type(Wal		Road E	levation:	0.0	feet	-				
S	ite Conditions(Ha	rd/Soft):	Soft		Noise S	ource El	evation al	oove Ro	ad		
Centerl	line (C.L.) Dist. to	Barrier:	110	feet		Autos:	0	feet			
C.L. Dist.	To Observer (Ba	ckyard):	120	feet	Med	Trucks:	2.3	feet			
Barrier Dist.	To Observer (Ba	ckyard):	10	feet	Hvy	Trucks:	8	feet			
C.L. Dist.	To Observer (Str	ucture):	130	feet	Pad Elevation: 0.0 feet						
Barrier Dist.	To Observer (Str	ucture):	20	feet	Observe	er Height	ts Above I	Pad Elev	/ation		
	Road	Grade:	0.00	%		Exterior:	5	feet			
	Le	eft View:	-90	degrees	Fir	st Floor:	5.5	feet			
	Rig	ht View:	90	degrees	Secor	nd Floor:	14	feet			
		FI	IWA NO	ISE MODEL CA	LCULATIONS						
							Barrie	er Attenu	uation		
	REMEL	Traffic	Flow	Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr		
Autos:	75.54	6.2	29	-5.43	-1.20	0.00	-12.02	-7.55	-0.148		
Med Trucks:	81.71	-8.	05	-5.43	-1.20	0.00	-12.51	-7.43	0		
Hvy Trucks:	85.21	-11	.73	-5.43	-1.20	0.00	-11.62	-5.9	0		
			UNMIT	IGATED NOIS	E LEVELS						
	Leq Peak Hour	Leq	Day	Leq Evening	Leq Night	L	.dn	CN	IEL		
Autos:	74.9	72	2.3	71.4	67.3	7	4.8	7	5.3		
Med Trucks:	66.9	49).2	47.8	47.5	5	4.2	54	1.4		
Hvy Trucks:	Hvy Trucks: 66.7 45.1 40.9					5	1.3	51	1.4		
Traffic Noise:	76.1	72	2.3	71.4	67.4	7	4.9	7	5.4		
			ΜΙΤΙΟ	GATED NOISE	LEVELS						
	Leq Peak Hour	Leq	Day	Leq Evening	ng Leq Night Ldn			CNEL			
Autos:	63.2 60.6 59.7			59.7	55.6 63.1			63	3.6		
Med Trucks:	54.5	36.9 35.5			35.2 41.8			42	2.1		
Hvy Trucks:	55.2	29.4	33.5 39.8 39.9			9.9					
Traffic Noise:	64.3	60	.6	59.7	55.7 63.2 63.7				3.7		

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL									
Scenario:	Cumulative Plus	Project			Project	t Name:	Fresno (GP		
Road Type:	SR-99 Freeway	.,			Job N	lumber:	31	680016		
, , , , , , , , , , , , , , , , , , ,			NOISE		PUTS					
	Highway Data	1	NOIOL			Vehic	le Mix			
Avera	age Daily Traffic:	10	4.100 vehic	es		Dav	Evenina	Niaht	Daily	
Pea	ak Hour Volume:	10.410 ve	ehicles		Autos:	53.3%	10.9%	12.8%	77.0%	
	Vehicle Speed:	65 m	iph		Medium Trucks:	2.9%	0.5%	1.4%	4.8%	
Near/Fa	r Lane Distance:	80 fe	et		Heavy Trucks:	9.9%	1.0%	7.3%	18.2%	
	Site Da	ta				Eleva	ations			
	Barrier	Height:	7 feet		Barrier Base El	levation:	0.0	feet		
	Barrier Type(Wal	Road El	levation:	0.0	feet	-				
Si	ite Conditions(Ha	rd/Soft):	Soft		Noise Se	ource El	evation al	bove Ro	ad	
Centerl	ine (C.L.) Dist. to	Barrier:	110 feet			Autos:	0	feet		
C.L. Dist.	To Observer (Ba	ckyard):	120 feet		Med	Trucks:	2.3	feet		
Barrier Dist.	To Observer (Ba	ckyard):	10 feet		Hvy Trucks: 8 feet					
C.L. Dist.	To Observer (Str	ucture):	130 feet		Pad Elevation: 0.0 feet					
Barrier Dist.	To Observer (Str	ucture):	20 feet		Observe	er Height	s Above I	Pad Elev	/ation	
	Road	I Grade:	0.00 %			Exterior:	5	feet		
	Le	eft View:	-90 degre	es	Fir	st Floor:	5.5	feet		
	Rig	ht View:	90 degre	es	Secor	nd Floor:	14	feet		
		FHV	VA NOISE N	IODEL CA	LCULATIONS					
							Barrie	er Attenu	uation	
	REMEL	Traffic F	Flow D	istance	Finite Road	Grade	Exterior	1st Flr	2nd Flr	
Autos:	75.54	6.52	2	-5.43	-1.20	0.00	-12.02	-7.55	-0.148	
Med Trucks:	81.71	-7.82	2	-5.43	-1.20	0.00	-12.51	-7.43	0	
Hvy Trucks:	85.21	-11.50	0	-5.43	-1.20	0.00	-11.62	-5.9	0	
			UNMITIGAT	ED NOIS	E LEVELS					
	Leq Peak Hour	Leq Da	ay Leo	Evening	Leq Night	L	dn	CN	IEL	
Autos:	75.1	72.5	5	71.6	67.6	7	5.1	75	5.6	
Med Trucks:	67.1	49.5	5	48.1	47.8	54	4.4	54	4.7	
Hvy Trucks:	66.9	45.3	8	41.1	45.2	5	1.5	51	1.6	
Traffic Noise:	raffic Noise: 76.3 72.5 71.7				67.6	7	5.1	7	5.6	
		D NOISE	LEVELS							
	Leq Peak Hour	Evening	ng Leq Night Ldn			CNEL				
Autos:	63.4	4 60.8 59.9			55.8 63.4			63	3.9	
Med Trucks:	54.8	37.1 35.7			35.4 42.1			42	2.3	
Hvy Trucks:	ucks: 55.5 33.8 29.7				33.7 40.1 40.2		0.2			
Traffic Noise:	64.5	60.8		60.0	55.9 63.4 63.9				3.9	

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL											
Scenario:	Existing			Proiec	t Name:	Fresno	GP					
Road Type:	SR-168 Freeway	/		Job I	Number:	316800	16					
,,		Ν	IOISE MODEL IN	PUTS								
	Highway Data				Vohio	olo Mix						
Avera	age Daily Traffic:	56 900 vehicle	s		Dav	Evenina	Night	Daily				
Pe	ak Hour Volume:	5.690 vehicle	s	Autos:	73.3%	10.2%	10.0%	93.4%				
	Vehicle Speed:	65 mph	•	Medium Trucks:	2.7%	0.3%	0.3%	3.2%				
Near/Fa	r Lane Distance:	120 feet		Heavy Trucks:	2.9%	0.2%	0.3%	3.4%				
	Site Dat	а		Elev	ations							
	Barrier	Height: 6	6 feet	Barrier Base E	levation:	0.0	feet					
	Barrier Type(Wall	/Berm): Wal	Road E	levation:	0.0	feet	-					
Si	ite Conditions(Ha	rd/Soft): Sof	t	Noise S	ource El	evation al	oove Ro	ad				
Centerl	line (C.L.) Dist. to	Barrier: 150) feet		Autos:	0	feet					
C.L. Dist.	To Observer (Bad	ckyard): 160) feet	Mec	Trucks:	2.3	feet					
Barrier Dist.	To Observer (Bad	ckyard): 10) feet	Hvy	/ Trucks:	8	feet					
C.L. Dist.	To Observer (Str	ucture): 170) feet	Pad Elevation: 0.0 feet								
Barrier Dist.	To Observer (Str	ucture): 20) feet	Observe	er Height	ts Above I	Pad Elev	/ation				
	Road	Grade: 0.00) %		Exterior:	5	feet					
	Le	ft View: -90) degrees	Fir	rst Floor:	5.5	feet					
	Rigl	ht View: 90) degrees	Secor	nd Floor:	14	feet					
		FHWA N	OISE MODEL CA	LCULATIONS								
						Barrie	er Attenu	uation				
	REMEL	Traffic Flow	Distance	Finite Road	Grade	Exterior	1st Flr	2nd Flr				
Autos:	75.54	3.66	-7.19	-1.20	0.00	-6.56	-5.7	0				
Med Trucks:	81.71	-6.54	-7.19	-1.20	0.00	-6.64	-5.5	0				
Hvy Trucks:	85.21	-14.42	-7.19	-1.20	0.00	-5.8	-4.9	0				
		UNM	ITIGATED NOISE	E LEVELS								
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night		.dn	CN	IEL				
Autos:	70.8	68.0	67.1	63.0	7	0.5	7'	1.0				
Med Trucks:	66.8	53.1	51.7	51.4	5	8.0	58	3.3				
Hvy Trucks:	62.4	36.3	40.3	4	6.7	46	5.8					
Traffic Noise:	72.7	68.1	67.2	63.3	7	0.8	7′	1.3				
		МІТ	IGATED NOISE	LEVELS								
	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	L	.dn	CN	IEL				
Autos:	tos: 64.2 61.4 60.5			56.4 64.0			64	4.5				
Med Trucks:	60.1	46.4	45.0	44.7 51.4			5′	1.6				
Hvy Trucks:	56.6	34.6	30.5	34.5 40.9 41.0			1.0					
Traffic Noise:	66.2	61.5	60.7	56.8 64.2 64.7				4.7				

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL										
Scenario:	Existing Plus Pro	oject			Projec	t Name:	Fresno	GP			
Road Type:	SR-168 Freeway	, ,			Job N	umber:	31	680016			
51			NOL		PUTS						
	Highway Data	1	Non			Vehic	le Mix				
Avera	age Daily Traffic:	75.600	vehicles			Dav	Evenina	Niaht	Daily		
Pe	ak Hour Volume:	7.560	vehicles		Autos:	73.3%	10.2%	10.0%	93.4%		
_	Vehicle Speed:	65 ו	mph		Medium Trucks:	2.7%	0.3%	0.3%	3.2%		
Near/Fa	r Lane Distance:	120 1	feet		Heavy Trucks:	2.9%	0.2%	0.3%	3.4%		
	Site Da	ta				Eleva	ations				
Barrier Height: 7 feet Barrier Base Elevation: 0.0 feet											
	Barrier Type(Wal		Road E	levation:	0.0	feet	-				
Si	ite Conditions(Ha	rd/Soft):	Soft		Noise S	ource El	evation al	oove Ro	ad		
Centerl	line (C.L.) Dist. to	Barrier:	150 fe	et		Autos:	0	feet			
C.L. Dist.	To Observer (Ba	ckyard):	160 fe	et	Med	Trucks:	2.3	feet			
Barrier Dist.	To Observer (Ba	ckyard):	10 fe	et	Hvy Trucks: 8 feet						
C.L. Dist.	To Observer (Str	ucture):	170 fe	et	Pad Elevation: 0.0 feet						
Barrier Dist.	To Observer (Str	ucture):	20 fe	et	Observe	er Height	s Above I	Pad Elev	/ation		
Road Grade: 0.00 % Exterior: 5 feet											
	Le	ht View.	-90 de	egrees	FII Secor	od Floor:	5.5 14	foot			
	Ng		50 0		0000		14				
		FH	IWA NOIS	E MODEL CA	ALCULATIONS		Derri	A 11			
	DEME	Troffic	Flow	Distance	Finite Road	Crada	Barrie	an Attenu	Jation 2nd Elr		
Autos		1 8						-7 15	20 122		
Med Trucks:	81 71	-5.3	30	-7 19	-1 20	0.00	-9.03	-7.08	0.122		
Hvv Trucks:	85.21	-13.	.19	-7.19	-1.20	0.00	-8.15	-6	0		
y			UNMITI	GATED NOIS	E I EVELS						
	Leg Peak Hour	Lea [Dav	Lea Evenina	Lea Niaht	L	dn	CN	IEL		
Autos:	72.0	69.	.2	68.3	64.2	7	1.8	72	2.3		
Med Trucks:	68.0	54.	.3	52.9	52.6	5	9.2	59	9.5		
Hvy Trucks:	63.6	41.	.7	37.5	41.6	4	7.9	48	3.0		
Traffic Noise: 73.9 69.3 68.5					64.6	7	2.0	72	2.5		
			MITIG	ATED NOISE	LEVELS						
	Leq Peak Hour	Leq [Day	Leq Evening	g Leq Night Ldn			CNEL			
Autos:	Autos: 63.3 60.4 59.6			59.6	55.5 63.0			63.5			
Med Trucks:	59.0	45.3 43.9			43.6 50.2			50	0.5		
Hvy Trucks:	55.5	33.	.5	29.4	33.4 39.8 39.9		9.9				
Traffic Noise:	65.2	60.	.6	59.7	55.8 63.2 63.7				3.7		

F	FHWA-RD-77-108 HIGHWAY TRAFFIC NOISE PREDICTION MODEL										
Scenario:	Cumulative Plus	Proiect			Project Name: Fresno GP						
Road Type:	SR-168 Freeway	/				Job N	lumber:	31	680016		
			NOIS		NPUTS						
	Highway Data		None				Vehic	le Mix			
Aver	age Daily Traffic:	86.900 v	vehicles				Dav	Evenina	Niaht	Daily	
Pe	ak Hour Volume:	8,690 v	vehicles			Autos:	73.3%	10.2%	10.0%	93.4%	
	Vehicle Speed:	65 r	mph		Medium	Trucks:	2.7%	0.3%	0.3%	3.2%	
Near/Fa	r Lane Distance:	120 f	eet		Heavy	Trucks:	2.9%	0.2%	0.3%	3.4%	
	Site Da	ta					Eleva	ations			
Barrier Height: 7 feet Barrier Base Elevation: 0.0 feet											
	Barrier Type(Wall/Berm): Wall						evation:	0.0	feet	-	
S	ite Conditions(Ha	rd/Soft):	Soft			Noise So	ource El	evation al	ove Ro	ad	
Center	line (C.L.) Dist. to	Barrier:	150 fee	et			Autos:	0	feet		
C.L. Dist.	To Observer (Ba	ckyard):	160 fee	et		Med	Trucks:	2.3	feet		
Barrier Dist.	To Observer (Ba	ckyard):	10 fee	et		Hvy	Trucks:	8	feet	_	
C.L. Dist.	To Observer (Str	ucture):	170 fee	et	Pad Elevation: 0.0 feet						
Barrier Dist.	To Observer (Str	ucture):	20 fee	et		Observe	r Height	s Above I	Pad Elev	ation/	
	Road	Grade:	0.00 %			I	=xterior:	5	feet		
	Le	eft View:	-90 de	grees		Fire	st Floor:	5.5	feet		
	Rig	ht view:	90 de	grees		Secon	id Floor:	14	feet		
		FH	WA NOISI	E MODEL C	ALCULAT	ONS					
								Barrie	er Attenu	uation	
	REMEL	Traffic	Flow	Distance	Finite	Road	Grade	Exterior	1st Flr	2nd Flr	
Autos:	75.54	5.5	0	-7.19	-1.	20	0.00	-8.75	-7.15	-0.122	
Med Trucks:	81.71	-4.7	/0 50	-7.19	-1.	20	0.00	-9.03	-7.08	0	
HVy Trucks:	85.21	-12.5	58	-7.19	-1.	20	0.00	-8.15	-6	0	
			UNMITIG	ATED NOIS	SE LEVELS	6					
	Leq Peak Hour	Leq D	Day L	eq Evening	Leq Nigh	nt	L	dn	CN	IEL	
Autos:	72.6	69.	8	68.9	64	.8	72	2.4	72	2.9	
Med Trucks:	68.6	54.	9	53.5	53	.2	5	9.8	60).1	
Hvy Trucks:	Hvy Trucks: 64.2 42.3 38.1						4	8.5	48	3.6	
Traffic Noise:	74.5	69.	9	69.1	65	.2	1	2.6	73	3.1	
			MITIGA	TED NOISE	LEVELS						
	Leq Peak Hour	Leq D	Day L	eq Evening	ng Leq Night Ldn			CNEL			
Autos:	63.9	9 61.1 60.2			56.1 63.6			3.6	64.1		
Med Trucks:	59.6	45.9 44.5			44.2 50.8			0.8	51.1		
Hvy Trucks:	56.1	34.	1	30.0	34.0 40.4 40.5).5			
I raffic Noise:	65.8	61.	2	60.3	56	.4	6	3.8	64	1.3	

Scenario: MAXIMUM INCREASES BY ROAD CLASSIFICATION - WITHOUT PROJECT

	١	/ehicle Mix	1 (Collector	rs)	V	ehicle Mix	2 (Arterials	s)	Vehicle M	ix 3 (SR-4 ⁻	1 Freeway	/)
Vehicle Type	Day	Evening	Night	Daily	Day	Evening	Night	Daily	Day	Evening	Night	Daily
Automobiles	72.72%	12.09%	9.58%	94.39%	73.30%	10.20%	10.00%	93.40%	65.76%	13.48%	15.77%	95.00%
Medium Trucks	4.16%	0.46%	0.31%	4.92%	2.70%	0.30%	0.30%	3.20%	1.48%	0.27%	0.75%	2.50%
Heavy Trucks	0.23%	0.46%	0.01%	0.69%	2.90%	0.20%	0.30%	3.40%	1.37%	0.13%	1.00%	2.50%
	Vehicle N	/lix 4 (SR-99	Freeway)		Vehicle Mi	x 5 (SR-18	0 Freeway	')	Vehicle M	ix 6 (SR-10	68 Freewa	ay)
Vehicle Type	Day	Evening	Night	Daily	Day	Evening	Night	Daily	Day	Evening	Night	Daily
Automobiles	53.30%	10.92%	12.78%	77.00%	65.76%	13.48%	15.77%	95.00%	62.30%	12.77%	14.94%	90.00%
Medium Trucks	2.86%	0.52%	1.45%	4.83%	2.07%	0.38%	1.05%	3.50%	5.10%	0.92%	2.58%	8.60%
Heavy Trucks	9.95%	0.95%	7.27%	18.17%	0.82%	0.08%	0.60%	1.50%	0.77%	0.07%	0.56%	1.40%
Poad Name: 6-Lano Expressivay Segment: 0												

neud numer		npi ocomaj			eeg		•						
Average Daily Tr	raffic: 1300	00 Vehicles		Vehicle Sp	eed: 50 MP	Н	Vehicle M	lix: 2	Roadwa	ay Class	ification: 6-l	ane Expr	essway
	NOIS	SE PARAM	ETERS AT	110 FEET	FROM CEN	NTERLINE	E (Ed	quiv. Lane Dist:	104.13	ft)	Centerline	Distance	e to
		Noise Ad	justments			Unn	nitigated I	Noise Levels			Noise Con	tour (in f	eet)
Vehicle Type	REMEL	Fraffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	71.12	-1.45	-4.88	-1.20	63.6	61.4	58.9	54.0	62.4	62.91	70 dBA:	35	38
Medium Trucks	78.79	-16.10	-4.88	-1.20	56.6	40.1	36.6	31.8	40.6	41.03	65 dBA:	75	81
Heavy Trucks	83.02	-15.84	-4.88	-1.20	61.1	44.9	39.3	36.3	45.1	45.45	60 dBA:	162	175
				Total:	66.1	61.6	59.0	54.1	62.5	63.0	55 dBA:	349	377

Road Name:	6-Lane Se	uper Arteri	al		Segme	ent:	0						
Average Daily Tr	raffic: 2670	0 Vehicles		Vehicle Sp	eed: 45 MP	Н	Vehicle M	lix: 2	Ro	badway (Classificatio	n: 6-Lane	Arterial
	NOIS	SE PARAM	ETERS AT	124 FEET	FROM CEN	NTERLINE	E (Ed	quiv. Lane Dist:	115.73	B ft)	Centerline	Distance	e to
		Noise Adj	ustments			Unn	nitigated I	Noise Levels			Noise Con	tour (in f	eet)
Vehicle Type	REMELT	raffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	69.34	2.13	-5.57	-1.20	64.7	62.6	60.0	55.2	63.5	64.0	70 dBA:	47	51
Medium Trucks	77.62	-12.52	-5.57	-1.20	58.3	41.9	38.3	33.6	42.3	42.8	65 dBA:	101	109
Heavy Trucks	82.14	-12.26	-5.57	-1.20	63.1	46.9	41.4	38.3	47.2	47.5	60 dBA:	218	235
	2			Total:	67.5	62.7	60.1	55.3	63.7	64.2	55 dBA:	469	506

Road Name:	3-Lane A	Arterial			Segme	ent:	0						
Average Daily T	raffic: 630	0 Vehicles		Vehicle Sp	eed: 40 MP	Н	Vehicle M	ix: 2	Ro	adway (Classificatio	n: 3-Lane	Arterial
	NC	DISE PARAN	METERS A	T 77 FEET	FROM CEN	NTERLINE	E (Ee	quiv. Lane Dist:	74.54 f	ft)	Centerline	Distance	e to
		Noise Ad			Unn	nitigated I	Noise Levels			Noise Cor	ntour (in f	eet)	
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	67.36	-3.63	-2.70	-1.20	59.8	57.7	55.1	50.3	58.7	59.2	70 dBA:	14	15
Medium Trucks	76.31	-18.28	-2.70	-1.20	54.1	37.6	34.1	29.4	38.1	38.6	65 dBA:	30	32
Heavy Trucks	81.16	-18.02	-2.70	-1.20	59.2	43.1	37.5	34.5	43.3	43.6	60 dBA:	64	69
				Total:	63.1	57.9	55.2	50.4	58.8	59.3	55 dBA:	138	149

Scenario: MAXIMUM INCREASES BY ROAD CLASSIFICATION - WITHOUT PROJECT

Road Name:	4-Lane Ar	terial			Segmo	ent:	0						
Average Daily T	raffic: 700 \	/ehicles		Vehicle Sp	eed: 45 MP	ΡH	Vehicle M	ix: 2	Ro	badway (Classificatio	n: 4-Lane	Arterial
	NOIS	SE PARAN	IETERS A	T 100 FEET	FROM CE	NTERLIN	E (E	quiv. Lane Dist:	94.58	ft)	Centerline	Distance	e to
		Noise Ad	justments			Unn	nitigated I	Noise Levels			Noise Con	tour (in f	eet)
Vehicle Type	REMELT	raffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	69.34	-13.68	-4.26	-1.20	50.2	48.1	45.5	40.7	49.0	49.5	70 dBA:	4	4
Medium Trucks	77.62	-28.34	-4.26	-1.20	43.8	27.4	23.8	19.1	27.8	28.3	65 dBA:	9	9
Heavy Trucks	82.14	-28.07	-4.26	-1.20	48.6	32.4	26.9	23.8	32.7	33.0	60 dBA:	19	20
				Total:	53.0	48.2	45.6	40.8	49.2	49.7	55 dBA:	41	44
_					-								
Road Name:	6-Lane Ar				Segmo	ent:	0		-		0		A . (
Average Daily Ti	raffic: 4600	0 Vehicles		Vehicle Sp	eed: 45 MP		Vehicle M	IX: 2	R	badway		n: 6-Lane	Arterial
	NOIS	E PARAM	ETERS AT	124 FEET	FROM CEI	NIERLINE	(EC	uiv. Lane Dist:	115.73	3 ft)	Centerline	Distance	eto
· · · · · ·		Noise Ad	justments			Unn	hitigated I	Noise Levels		01151	Noise Con	tour (in f	eet)
Vehicle Type	REMEL I	raffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	69.34	4.49	-5.57	-1.20	67.1	64.9	62.4	57.5	65.9	66.4	70 dBA:	67	73
Medium Trucks	77.62	-10.16	-5.57	-1.20	60.7	44.2	40.7	35.9	44.7	45.1	65 dBA:	145	157
Heavy Trucks	82.14	-9.90	-5.57	-1.20	65.5	49.3	43.7	40.7	49.5	49.8	60 dBA:	313	337
				Total:	69.9	65.1	62.5	57.6	66.0	66.5	55 dBA:	674	727
Road Name:	2-Lane Co	llector			Seam	ont	0						
	raffic: 5400	Vehicles		Vehicle Sn	ocym ocd: 40 MP	онс. 9Н	Vehicle M	iv: 1	Roa	dway Cl	assification.	2-l ane (ollector
Average Daily T	NOI	SE PARAN		T 72 FFFT	FROM CEI			nuiv Lane Dist [.]	71 26	ft)	Centerline	Distance	e to
		Noise Adi	iustments			Unn	nitigated I	Noise Levels	0	,	Noise Con	tour (in f	eet)
Vehicle Type	REMELT	raffic Adi.	Dist Adi.	Finite Adi	Leg Peak	Leg Dav	Lea Eve.	Lea Niaht	Ldn	CNEL		Ldn	CNEL
Automobiles	67.36	-4.25	-2.41	-1.20	59.5	57.3	55.6	49.8	58.3	58.8	70 dBA:	12	13
Medium Trucks	76.31	-17.08	-2.41	-1.20	55.6	41.0	37.5	30.9	40.7	41.2	65 dBA:	26	28
Heavy Trucks	81.16	-25.63	-2.41	-1.20	51.9	24.7	33.7	12.4	27.1	30.6	60 dBA:	56	61
,, ,				Total:	61.5	57.4	55.6	49.8	58.3	58.9	55 dBA:	120	132
Road Name:	4-Lane Co	ollector			Segmo	ent:	0						
Average Daily T	raffic: 3500	Vehicles		Vehicle Sp	eed: 30 MP	ΥH	Vehicle M	ix: 1	Roa	dway Cl	assification:	4-Lane C	Collector
	NO	SE PARAN	METERS A	T 92 FEET	FROM CEI	NTERLINE	E (Ed	quiv. Lane Dist:	89.64	ft)	Centerline	Distance	e to
		Noise Ad	justments			Unn	nitigated I	Noise Levels			Noise Con	tour (in f	eet)
Vehicle Type	REMELT	raffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	62.51	-4.89	-3.91	-1.20	52.5	50.3	48.6	42.8	51.3	51.9	70 dBA:	5	6
Medium Trucks	73.11	-17.71	-3.91	-1.20	50.3	35.7	32.1	25.6	35.3	35.9	65 dBA:	11	12
Heavy Trucks	80.26	-26.27	-3.91	-1.20	48.9	21.7	30.7	9.3	24.0	27.6	60 dBA:	25	27
				Total:	55.6	50.5	48.7	42.9	51.4	52.0	55 dBA:	53	58

Scenario: MAXIMUM INCREASES BY ROAD CLASSIFICATION - WITHOUT PROJECT

Road Name:	Freeway				Segme	ent:	0						
Average Daily T	raffic: 4350	0 Vehicles		Vehicle Sp	eed: 65 MP	Ή	Vehicle M	lix: 4	Ro	adway C	Classification	: SR-41 F	reeway
	NOIS	SE PARAM	ETERS AT	285 FEET	FROM CEI	NTERLINE	(Ed	quiv. Lane Dist:	280.58	ft)	Centerline	Distance	e to
		Noise Ad	ustments			Unn	nitigated I	Noise Levels			Noise Con	tour (in f	eet)
Vehicle Type	REMEL1	raffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	75.54	1.82	-11.34	-1.20	64.8	63.1	62.3	58.2	65.7	66.2	70 dBA:	148	160
Medium Trucks	81.71	-10.21	-11.34	-1.20	59.0	37.0	35.6	35.3	42.0	42.2	65 dBA:	319	345
Heavy Trucks	85.21	-4.46	-11.34	-1.20	68.2	40.2	36.0	40.1	46.4	46.5	60 dBA:	688	743
-				Total:	70.2	63.1	62.3	58.3	65.7	66.2	55 dBA:	1482	1600
Road Name	Scenic A	rtorial			Seam	ant	0						
Average Daily T	raffic: 1800	0 Vehicles		Vehicle Sn	eed: 40 MP	H	Vehicle M	lix [.] 2	R	hadway	Classificatio	n [.] Scenic	Arterial
Twerage Daily T	NOIS	SE PARAM	ETERS AT	122 FFFT	FROM CEI		(Fi	nuiv Lane Dist	118 18	(ft)	Centerline	Distance	
		Noise Adi	ustments			Unn	nitigated I	Noise Levels	110.10		Noise Con	tour (in f	eet)
Vehicle Type	REMEL 1	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	67.36	0.93	-5.71	-1.20	61.4	59.2	56.7	51.8	60.2	60.7	70 dBA:	28	30
Medium Trucks	76.31	-13.72	-5.71	-1.20	55.7	39.2	35.7	30.9	39.7	40.1	65 dBA:	60	65
Heavy Trucks	81.16	-13.46	-5.71	-1.20	60.8	44.6	39.0	36.0	44.8	45.1	60 dBA:	129	139
				Total:	64.7	59.4	56.8	52.0	60.4	60.9	55 dBA:	279	300
Road Name	Soonio E				Soam	nnt.	0						
Average Daily T	SCEIIC E	NO Vobiclos		Vohielo Sn	ood: 50 MD	еп. ч	U Vohielo M	liv: 2	Poodw		sification: Sc	onic Evo	COCOMON
Average Daily T								auiv Lana Dist	· 126 /	ay Class	Centerline		ato
		Noise Adi	ustments			Unn	<u> </u>	Noise Levels	. 120.4	1()	Noise Con	tour (in f	
Vehicle Type	REMEL 1	Traffic Adi	Dist Adi	Finite Adi	Leg Peak	Leg Dav	Leg Eve	Lea Night	l dn	CNEL		l dn	CNFL
Automobiles	71.12	4.66	-6.15	-1.20	68.4	66.3	63.7	58.9	67.3	67.8	70 dBA:	90	97
Medium Trucks	78.79	-9.99	-6.15	-1.20	61.5	45.0	41.5	36.7	45.4	45.9	65 dBA:	193	208
Heavy Trucks	83.02	-9.73	-6.15	-1.20	65.9	49.8	44.2	41.2	50.0	50.3	60 dBA:	416	448
,				Total:	70.9	66.4	63.8	59.0	67.4	67.9	55 dBA:	896	966
Deed News	4 1		- 1		0	1 -	•						
	4-Lane S	uper Arteri	ai		Segme	ent:				01		0	A
Average Dally T					eed: 50 MP			IIX: Z F			cation: 4-La	ne Super	Arterial
	NOR		ETERS AT	124 FEET		NIERLINE	(EC	quiv. Lane Dist:	115.73	iπ)	Centerline	Distance	
Vahiola Tura				Finita Adi	Log Dook		litigated I	NOISE Levels	ا ما م		Noise Con	tour (in t	
											70 dPA+		
Automobiles	79.70	12.25	-5.57	-1.20 1.20	00./	03.0 12.2	200	00.∠ 24.0	04.0 12 7	1.00		00 119	29 127
	10.19	-13.20	-5.57	-1.20 _1.20	0.0 63.0	42.3	30.0 11 5	34.U 38.5	42.1	40.2 17 G	60 dBA	254	127
Heavy HUCKS	03.0Z	-13.00	-0.07	Total:	68 2	62 7	6.14 6 13	56.2	6/ 7	47.0 65.2	55 dRA.	204 5/9	214 501
				TOLAI.	00.2	03.7	01.1	50.5	04.7	05.2	55 UDA.	540	591

Scenario: MAXIMUM INCREASES BY ROAD CLASSIFICATION - WITHOUT PROJECT

Road Name:	Connecto	r			Segme	ent:	0						
Average Daily T	raffic: 100 \	/ehicles		Vehicle Sp	eed: 40 MP	Н	Vehicle M	lix: 2	Roa	dway Cl	assification:	2-Lane C	ollector
	NOI	SE PARAN	METERS A	T 72 FEET	FROM CEN	NTERLINE	E (E	quiv. Lane Dist	:: 71.26 f	t)	Centerline	Distance	e to
		Noise Ad	justments			Unn	nitigated	Noise Levels			Noise Con	tour (in f	eet)
Vehicle Type	REMELT	raffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	67.36	-21.62	-2.41	-1.20	42.1	40.0	37.4	32.6	41.0	41.5	70 dBA:	1	1
Medium Trucks	76.31	-36.27	-2.41	-1.20	36.4	19.9	16.4	11.7	20.4	20.9	65 dBA:	2	2
Heavy Trucks	81.16	-36.01	-2.41	-1.20	41.5	25.4	19.8	16.8	25.6	25.9	60 dBA:	4	4
				Total:	45.4	40.2	37.5	32.7	41.1	41.6	55 dBA:	9	9

Scenario: MAXIMUM INCREASES BY ROAD CLASSIFICATION - WITH PROJECT

Daily Day Evening Night Daily	
93.40% 65.76% 13.48% 15.77% 95.00%	
3.20% 1.48% 0.27% 0.75% 2.50%	
3.40% 1.37% 0.13% 1.00% 2.50%	
_	33.40% 13.40% 13.40% 13.77% 33.00% 3.20% 1.48% 0.27% 0.75% 2.50% 3.40% 1.37% 0.13% 1.00% 2.50%

Road Name:	6-Lane Ex	kpressway	,		Segme	ent:	0						
Average Daily T	raffic: 8810	0 Vehicles		Vehicle Sp	eed: 50 MP	Н	Vehicle M	lix: 2	Roadwa	ay Class	ification: 6-	Lane Expr	essway
	NOIS	E PARAMI	ETERS AT	110 FEET	FROM CEI	NTERLINE	E (E	quiv. Lane Dis	t: 104.1	3 ft)	Centerline	e Distance	e to
		Noise Adj			Unn	nitigated I	Noise Levels			Noise Co	ntour (in f	eet)	
Vehicle Type	REMELT	raffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	71.12	6.86	-4.88	-1.20	71.9	69.8	67.2	62.4	70.7	71.2	70 dBA:	125	135
Medium Trucks	78.79	-7.79	-4.88	-1.20	64.9	48.4	44.9	40.1	48.9	49.3	65 dBA:	270	291
Heavy Trucks	83.02	-7.53	-4.88	-1.20	69.4	53.2	47.6	44.6	53.5	53.8	60 dBA:	581	626
				Total:	74.4	69.9	67.3	62.5	70.8	71.3	55 dBA:	1251	1349

Road Name:	6-Lane S	Super Arter	ial		Segme	ent:	0						
Average Daily T	raffic: 873	800 Vehicles	;	Vehicle Sp	eed: 45 MP	Ή	Vehicle M	lix: 2	Rc	oadway (Classificatio	n: 6-Lane	Arterial
	NOI	SE PARAM	ETERS AT	124 FEET	FROM CEI	NTERLINE	E (E	quiv. Lane Dist:	115.7	3 ft)	Centerline	Distance	e to
		Noise Ad	justments			Unm	nitigated I	Noise Levels			Noise Co	ntour (in f	eet)
Vehicle Type	REMEL	Traffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	69.34	7.28	-5.57	-1.20	69.9	67.7	65.2	60.3	68.7	69.2	70 dBA:	103	111
Medium Trucks	77.62	-7.38	-5.57	-1.20	63.5	47.0	43.5	38.7	47.5	47.9	65 dBA:	223	240
Heavy Trucks	82.14	-7.11	-5.57	-1.20	68.3	52.1	46.5	43.5	52.3	52.6	60 dBA:	480	517
				Total:	72.7	67.9	65.3	60.4	68.8	69.3	55 dBA:	1034	1114

Road Name:	3-Lane Arterial			Segme	ent:	0						
Average Daily T	raffic: 19900 Vehicle	es	Vehicle Sp	eed: 40 MP	ΡΗ	Vehicle M	lix: 2	Ro	adway (Classificatio	n: 3-Lane	Arterial
	NOISE PARA	METERS A	T 77 FEET	FROM CE	NTERLINE	E (E	quiv. Lane Dist	: 74.54	ft)	Centerline	Distanc	e to
	Noise A	djustments			Unn	nitigated	Noise Levels			Noise Cor	ntour (in f	eet)
Vehicle Type	REMEL Traffic Adj	. Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	67.36 1.37	-2.70	-1.20	64.8	62.7	60.1	55.3	63.7	64.1	70 dBA:	30	32
Medium Trucks	76.31 -13.29	-2.70	-1.20	59.1	42.6	39.1	34.4	43.1	43.5	65 dBA:	64	69
Heavy Trucks	81.16 -13.02	-2.70	-1.20	64.2	48.1	42.5	39.5	48.3	48.6	60 dBA:	138	149
			Total:	68.1	62.9	60.2	55.4	63.8	64.3	55 dBA:	298	321

Scenario: MAXIMUM INCREASES BY ROAD CLASSIFICATION - WITH PROJECT

Road Name:	4-Lane Arte	erial			Segm	ent:	0						
Average Daily T	raffic: 52400	Vehicles		Vehicle Sp	eed: 45 MF	ΡΗ	Vehicle M	ix: 2	Ro	badway (Classification	n: 4-Lane	Arterial
	NOISE	E PARAM	ETERS A	Г 100 FEET	FROM CE	NTERLIN	E (E	quiv. Lane Dist:	94.58	3 ft)	Centerline	Distanc	e to
	N	loise Adj	ustments			Unn	nitigated I	Noise Levels			Noise Con	tour (in f	eet)
Vehicle Type	REMELTra	affic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	69.34	5.06	-4.26	-1.20	68.9	66.8	64.3	59.4	67.8	68.3	70 dBA:	73	78
Medium Trucks	77.62	-9.59	-4.26	-1.20	62.6	46.1	42.6	37.8	46.6	47.0	65 dBA:	156	169
Heavy Trucks	82.14	-9.33	-4.26	-1.20	67.4	51.2	45.6	42.6	51.4	51.7	60 dBA:	337	363
				Total:	71.8	67.0	64.4	59.5	67.9	68.4	55 dBA:	726	782
					-		_						
Road Name:	6-Lane Arte	erial			Segm	ent:	0		_				
Average Daily T	raffic: 75200	Vehicles		Vehicle Sp	eed: 45 MF	PH	Vehicle M	ix: 2	Ro	badway (Classification	n: 6-Lane	Arterial
	NOISE	PARAME	ETERS AT	124 FEET	FROM CE	NTERLINE	E (E	quiv. Lane Dist:	115.7	3 ft)	Centerline	Distanc	e to
	N	loise Adj	ustments			Unn	nitigated	Noise Levels		_	Noise Con	tour (in f	eet)
Vehicle Type	REMELTra	affic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	69.34	6.63	-5.57	-1.20	69.2	67.1	64.5	59.7	68.0	68.5	70 dBA:	94	101
Medium Trucks	77.62	-8.02	-5.57	-1.20	62.8	46.3	42.8	38.1	46.8	47.3	65 dBA:	202	217
Heavy Trucks	82.14	-7.76	-5.57	-1.20	67.6	51.4	45.8	42.8	51.7	52.0	60 dBA:	434	468
				Total:	72.0	67.2	64.6	59.8	68.2	68.7	55 dBA:	936	1009
Deed News		leater			Comm		0						
Road Name:	2-Lane Col			Vabiala Or	Segmo		U Vahiala M	A	Dee	-t	: f :t:	0.1	
Average Dally T				Venicie Sp	eed: 40 MF			IX: 1	R0a	dway Cl	assification:	2-Lane C	
	NOIS	E PARAN	IETERS A	I /2 FEEI	FROMUCE	NIERLINE		quiv. Lane Dist:	71.26	π)	Centerline	Distance	
Vehicle Ture				Einite Adi	Lee Deek	Unn	hitigated i		ماما		Noise Con	tour (in i	
	REMELIT		Dist Adj.	Finite Adj	Leq Peak		Leq Eve.						
Automobiles	67.36	2.85	-2.41	-1.20	00.0	04.4	62.7	56.9	65.4	65.9		30	39
	76.31	-9.98	-2.41	-1.20	62.7	48.1	44.0	38.0	47.8	48.3		11	84 400
Heavy Trucks	81.10	-18.53	-2.41	-1.20	59.0	31.8	40.9	19.5	34.2	37.7		100	182
				l otal:	0.60	64.5	62.7	56.9	65.4	00.0	55 0BA:	308	391
Road Name:	4-Lane Col	lector			Seam	ent:	0						
Average Daily T	raffic: 32600	Vehicles		Vehicle Sp	eed: 30 MF	Ϋ́Η	Vehicle M	ix: 1	Roa	dwav Cl	assification:	4-Lane C	Collector
	NOIS	E PARAM	IETERS A	T 92 FEET	FROM CE	NTERLINE	E (E	quiv. Lane Dist:	89.64	ft)	Centerline	Distanc	e to
	N	loise Adj	ustments			Unn	nitigated I	Noise Levels		/	Noise Con	tour (in f	eet)
Vehicle Type	REMELTra	affic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL
Automobiles	62.51	4.80	-3.91	-1.20	62.2	60.0	58.3	52.5	61.0	61.6	70 dBA:	23	26
Medium Trucks	73.11	-8.02	-3.91	-1.20	60.0	45.4	41.8	35.3	45.0	45.6	65 dBA:	51	55
Heavy Trucks	80.26	-16.58	-3.91	-1.20	58.6	31.4	40.4	19.0	33.7	37.3	60 dBA:	109	119
-	•			Total:	65.3	60.2	58.4	52.6	61.1	61.7	55 dBA:	234	257

Scenario: MAXIMUM INCREASES BY ROAD CLASSIFICATION - WITH PROJECT

Road Name:	Freeway				Segm	ent:	0								
Average Daily T	verage Daily Traffic: 104300 Vehicles				Vehicle Speed: 65 MPH Vehicle Mix: 4						Roadway Classification: SR-41 Freeway				
	NOISE PARAMETERS AT 2			285 FEET	EET FROM CENTERLINE (Equiv. Lane Dist:					3 ft)	Centerline	enterline Distance to			
		Noise Adj	ustments		Unmitigated Noise Levels					Noise Contour (in fee			ieet)		
Vehicle Type	REMELT	raffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL		
Automobiles	75.54	6.53	-11.34	-1.20	69.5	66.9	66.1	62.0	69.5	70.0	70 dBA:	266	287		
Medium Trucks	81.71	-9.27	-11.34	-1.20	59.9	40.8	39.4	39.1	45.8	46.0	65 dBA:	572	618		
Heavy Trucks	85.21	-9.27	-11.34	-1.20	63.4	44.0	39.8	43.9	50.2	50.3	60 dBA:	1233	1331		
-				Total:	70.8	66.9	66.1	62.1	69.5	70.0	55 dBA:	2655	2867		
Deed Nemer Coopie Arterial Comments 0															
Koad Name: Scenic Arterial Segment: U															
Average Daily T										t: 119 19 ft) Contorling Distance to					
	NOI5	E PARAIVI		122 FEEL FROM GENTERLINE (Equiv. Lane Dist						Lenterline Distance to					
Vahiele Ture			Diet A di	Einite Adi	Lea Deela		hitigated r	مراما							
Venicie Type				Finite Adj	Leq Peak		Leq Eve.								
Automobiles	07.30	3.37	-5.71	-1.20	63.8	01.7	59.1	54.3	62.7	63.Z		41	44		
	76.31	-11.28	-5.71	-1.20	58.1	41.6	38.1	33.4	42.1	42.6	65 dBA:	۸۵ ۵۷	94		
Heavy Trucks	81.16	-11.01	-5.71	-1.20	63.2	47.1	41.5	38.5	47.3	47.0		188	203		
				l otal:	67.1	61.9	59.2	54.4	62.8	63.3	55 0BA:	405	437		
Road Name:	Scenic Ex	xpresswav	,		Seam	ent:	0								
Average Daily T	raffic: 7520)0 Vehicles		Vehicle Speed: 50 MPH Vehicle Mix: 2					Roadway Classification: Scenic Expressway						
	NOIS	SE PARAM	ETERS A	Г 134 FEET	FROM CE	NTERLIN	E (E	quiv. Lane Di	t: 126.4 ft) Centerline Distance to						
		Noise Adj	ustments	Unmitigated Noise Levels						Noise Contour (in feet)					
Vehicle Type	REMELT	raffic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leg Night	Ldn	CNEL		Ldn	CNEL		
Automobiles	71.12	6.17	-6.15	-1.20	69.9	67.8	65.3	60.4	68.8	69.3	70 dBA:	113	122		
Medium Trucks	78.79	-8.48	-6.15	-1.20	63.0	46.5	43.0	38.2	46.9	47.4	65 dBA:	243	262		
Heavy Trucks	83.02	-8.22	-6.15	-1.20	67.5	51.3	45.7	42.7	51.5	51.8	60 dBA:	524	565		
-				Total:	72.4	67.9	65.3	60.5	68.9	69.4	55 dBA:	1130	1218		
Deed News	4 1 0		- I		0		•								
Road Name: 4-Lane Super Arterial Segment: 0										A . (
Average Daily T	raffic: 5220	U Venicies			eed: 50 MP			<u>x: 2</u>	koadway		cation: 4-Lai	ne Super	Arterial		
	NOIS		ETERSAT	124 FEET	ET FROM CENTERLINE (Equiv. Lane Dist:					<u>115./3 ft</u>) Centerline Distance to					
		Noise Adj	ustments		Unmitigated Noise Levels				1.1.		Noise Con	tour (in i	eet)		
		raffic Adj.		Finite Adj	Leq Peak	Leq Day	Leq Eve.					Lan	UNEL		
Automobiles	/1.12	4.59	-5.57	-1.20	68.9	66.8	64.2	59.4	67.8	68.3		90	96		
ivieaium Trucks	78.79	-10.07	-5.57	-1.20	62.0	45.5	42.0	37.2	45.9	46.4	65 dBA:	193	208		
Heavy Trucks	83.02	-9.80	-5.57	-1.20	66.4	50.3	44.7	41./	50.5	50.8	60 dBA:	416	448		
				Total:	71.4	66.9	64.3	59.5	67.9	68.4	55 dBA:	895	965		

Scenario: MAXIMUM INCREASES BY ROAD CLASSIFICATION - WITH PROJECT

Road Name:	Connecto	r			Segme	ent:	0							
Average Daily T	1	Vehicle Sp	eed: 40 MP	- Vehicle Mix: 2			Roadway Classification: 2-Lane Collector							
	NOIS	SE PARAN	/IETERS A	T 72 FEET	FROM CEI	NTERLINE	E (E	quiv. Lane Dis	t: 71.26	ft)	Centerline	Distance	e to	
	Noise Adjustments				Unmitigated Noise Levels					Noise Contour (in feet)				
Vehicle Type	REMELTr	affic Adj.	Dist Adj.	Finite Adj	Leq Peak	Leq Day	Leq Eve.	Leq Night	Ldn	CNEL		Ldn	CNEL	
Automobiles	67.36	-0.26	-2.41	-1.20	63.5	61.4	58.8	54.0	62.3	62.8	70 dBA:	23	24	
Medium Trucks	76.31	-14.91	-2.41	-1.20	57.8	41.3	37.8	33.0	41.8	42.2	65 dBA:	49	53	
Heavy Trucks	81.16	-14.64	-2.41	-1.20	62.9	46.7	41.1	38.1	47.0	47.3	60 dBA:	105	114	
				Total:	66.8	61.5	58.9	54.1	62.5	63.0	55 dBA:	227	245	

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