CITY OF LAKE ELSINORE GENERAL PLAN UPDATE

ANNOTATED RECIRCULATED DRAFT EIR

SCH #2005121019

APPENDIX E

NOISE MODELING RESULTS

PREPARED FOR:

CITY OF LAKE ELSINORE
130 SOUTH MAIN STREET
LAKE ELSINORE, CA 92530

AUGUST 2011

CERTIFIED BY CITY COUNCIL: DECEMBER 13, 2011
(RESOLUTION NO. 2011-070)

APPENDIX E– PART 1

EXISTING CONDITIONS

Lake Elsinore General Plan Update
Modeled Existing Roadway Noise Levels

Roadway	From:	To:	Total Daily Traffic Volumes	Vehicle Speed (mph)	Ldn at Receiver (100 ft) (dBA)	Distance to Noise Contour		
						70 dBA Ldn	65 dBA Ldn	60 dBA Ldn
Temescal Canyon Road	Larson Road	Lake Street	6,500	45	61.5	27.0	58.1	125.1
Lake Street	I-15	Temescal Canyon Road	17,500	45	65.8	52.2	112.4	242.1
	Temescal Canyon Road	Coal Road	16,800	45	65.6	50.8	109.4	235.6
	Coal Road	Lakeshore Drive	18,300	45	66.0	53.8	115.8	249.4
	Lakeshore Drive	Broadway Avenue	14,700	40	63.8	38.2	82.3	177.2
	Machado Street	Riverside Drive	6,600	45	61.6	27.3	58.7	126.4
Grand Avenue	Riverside Drive	Macy Street	21,400	40	65.4	49.1	105.7	227.6
	Macy Street	SR-74	19,300	40	65.0	45.8	100.0	212.5
	SR-74	Adelfa Street	16,500	45	65.6	50.2	108.1	232.8
	Adelfa Street	Corydon Street	22,200	45	66.8	61.2	131.7	283.7
	Corydon Street	Bryant Street	16,800	45	65.6	50.8	109.4	235.6
Lakeshore Drive	Lake Street	Terra Cotta Road	13,500	45	64.7	43.9	94.6	203.7
	Machado Street	Riverside Drive	19,100	40	64.9	45.5	98.0	211.0
	Riverside Drive	Chaney Street	19,000	40	64.9	45.5	98.0	211.0
	Avenue 6	Diamond Drive	14,200	40	63.6	37.3	80.4	173.2
Mission Trail	Lakeshore Drive	Malaga Road	17,600	40	64.6	43.1	92.8	199.8
	Malaga Road	Olive Street	17,900	50	67.1	63.4	136.5	294.0
	Olive Street	Lemon Street	17,400	50	67.0	62.2	133.9	288.5
	Lemon Street	Corydon Street	15,700	50	66.5	58.1	125.1	269.4
	Corydon Street	Bundy Canyon Road	14,900	50	66.3	56.1	120.8	260.2
	Bundy Canyon Road	Canyon Drive	14,800	50	66.2	55.8	120.2	259.0
Corydon Street	Mission Trail	Bryant Street	8,800	40	61.5	27.2	58.5	125.9
	Palomar Street	Grand Avenue	7,900	40	61.1	25.3	54.4	117.2
Collier Avenue	Nichols Road	Riverside Drive	7,300	45	62.0	29.2	62.8	135.2
	Riverside Drive	Central Avenue	25,900	45	67.5	67.8	146.0	314.4
	Central Avenue	Chaney Street	9,700	45	63.2	35.2	75.9	163.4
SR-74/Ortega Highway	Mazie Avenue	Greenwald Avenue	18,300	50	67.2	64.3	138.5	298.4
	Greenwald Avenue	Riverside Street	19,500	50	67.4	67.1	144.5	311.3
	Riverside Street	Ramsgate Drive	20,900	50	67.7	70.3	151.3	326.0
	Ramsgate Drive	Conrad Avenue	21,200	50	67.8	70.9	152.8	329.1
	Conrad Avenue	Cambern Avenue	22,400	45	66.9	61.5	132.5	285.4
	Cambern Avenue	Interstate 15	32,200	45	68.5	78.4	168.8	363.5
Central Avenue/SR-74	Interstate 15	Collier Avenue	33,200	45	68.6	80.0	172.2	371.0
	Collier Avenue	Pasadena Avenue	2,800	35	55.2	10.2	22.0	47.3
Riverside Drive/SR-74	Collier Avenue	Baker Street	25,000	45	67.4	66.2	142.6	307.1
	Lakeview Avenue	Lakeshore Drive	24,700	40	66.0	54.0	116.3	250.4
	Lakeshore Drive	Lehr Drive	29,100	40	66.7	60.2	129.7	279.4

Roadway	From:	To:	Total Daily Traffic Volumes	Vehicle Speed (mph)	Ldn at Receiver (100 ft) (dBA)	Distance to Noise Contour		
						70 dBA Ldn	65 dBA Ldn	60 dBA Ldn
	Joy Street	Lincoln Street	25,300	40	66.1	54.9	118.1	254.5
	Lincoln Street	Lake Crest Avenue	22,000	40	65.5	50.0	107.6	231.8
	Eisenhour Drive	Grand Avenue	19,400	40	65.0	46.0	100.0	213.2
SR-74/Ortega Highway	Grand Avenue	Cleveland National Forest	12,500	45	64.3	41.7	89.8	193.5
Main Street	Flint Street	Pottery Street	13,200	30	60.3	22.6	78.6	104.5
	Peck Street	Graham Avenue	6,900	30	57.5	14.7	31.5	67.9
	Graham Avenue	Limited Street	7,600	30	57.9	15.6	33.6	72.4
Greenwald Avenue	SR-74	Vacation Drive	4,000	50	60.6	23.4	50.3	108.3
Summerhill Drive	Vacation Drive	Railroad Canyon Road	13,500	40	63.4	36.1	77.7	167.4
Grape Street	Railroad Canyon Road	Malaga Road	14,700	35	62.4	30.8	66.3	142.8
Auto Center Drive	Franklin Street	Mill Street	3,300	40	57.3	14.1	30.4	65.5
Diamond Drive	I-15	Lakeshore Drive	22,600	30	62.7	32.3	69.5	149.6
	Lakeshore Drive	Campbell Street	2,700	35	55.0	10.0	21.5	46.2
Lincoln Street	Robin Drive	Riverside Drive/SR-74	10,500	35	60.9	24.6	53.0	114.1
Nichols Road	Collier Avenue	Interstate 15	9,500	20	55.1	10.2	21.9	47.2
	Interstate 15	El Toro Road	8,600	30	58.5	17.0	36.5	78.6
Graham Avenue	Spring Street	Main Street	8,200	30	58.3	16.4	35.4	76.1
Franklin Street	Avenue 6	Auto Center Drive	5,600	25	54.9	9.8	21.0	45.1
Malaga Road	Diamond Drive	Mission Trail	2,700	35	55.0	10.0	21.5	46.2
	Mission Trail	Lakeview Terrace	3,100	35	55.6	10.9	23.5	50.6
Railroad Canyon Road	Skylink Drive	Canyon Hills Road	31,200	50	69.5	91.8	197.7	425.8
	Canyon Hills Road	Summerhill Drive/Grape	33,700	50	69.8	96.6	208.1	448.2
	Summerhill Drive/Grape	Interstate 15	31,500	30	64.1	40.3	86.7	186.7
Bundy Canyon Road	Mission Trail	Almond Street	12,100	45	64.2	40.8	87.9	189.3
	Almond Street	Orange Street	22,300	25	60.9	24.4	52.6	113.2
	Interstate 15	Cherry Street	23,700	45	67.1	63.9	137.6	296.4
Canyon Hills Road	Railroad Canyon Road	Sprucewood Way	12,100	45	64.2	40.8	87.9	189.3
Interstate 15	Clinton Keith Road	Baxter Road	127,000	70	79.4	422.5	910.2	1,961.0
	Baxter Road	Bundy Canyon Road	120,000	70	79.2	406.8	876.5	1,888.2
	Bundy Canyon Road	Railroad Canyon Road	116,000	70	79.0	397.8	856.9	1,846.0
	Railroad Canyon Road	Main Street	124,000	70	79.3	415.8	895.8	1,930.0
	Main Street	SR-74 Junction	120,000	70	79.2	406.8	876.5	1,888.2
	SR-74 Junction	Nichols Road	108,000	70	78.7	379.3	817.0	1,760.2
	Nichols Road	Lake Street	110,000	70	78.8	383.9	827.1	1,781.8
	Lake Street	Indian Trail Road	116,000	70	79.0	397.8	856.9	1,846.0
	Indian Trail Road	Temescal Canyon Road	123,000	70	79.3	413.6	891.0	1,919.6

FHWA Sound32 Spreadsheet

Roadway: Auto Center Drive
Segment: Franklin Street to Mill Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3300.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	186.46	3.52	1.42	46.44	0.88	0.35	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	57.29
ADJUSTMENTS							DAY LEQ	55.36
Flow	16.38	-0.86	-4.81	10.34	-6.90	-10.85		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	54.12	45.83	46.72	48.08	39.80	40.69	GRADE dB	0.00

DAY LEQ 55.36 NIGHT LEQ 49.32

LDN 57.3

Roadway: Auto Center Drive
Segment: Franklin Street to Mill Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3300.00
							SPEED	40.00
-							DISTANCE	14.10
INPUT PARAMETERS								
Vehicles per hour	186.46	3.52	1.42	46.44	0.88	0.35	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	16.38	-0.86	-4.81	10.34	-6.90	-10.85		
Distance	8.14	8.14	8.14	8.14	8.14	8.14		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.88	58.60	59.49	60.84	52.56	53.45	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Auto Center Drive
Segment: Franklin Street to Mill Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3300.00
							SPEED	40.00
-							DISTANCE	30.40
INPUT PARAMETERS								
Vehicles per hour	186.46	3.52	1.42	46.44	0.88	0.35	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.12
Flow	16.38	-0.86	-4.81	10.34	-6.90	-10.85		
Distance	3.14	3.14	3.14	3.14	3.14	3.14		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.55	48.44	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Auto Center Drive
Segment: Franklin Street to Mill Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3300.00
							SPEED	40.00
-							DISTANCE	65.50
INPUT PARAMETERS								
Vehicles per hour	186.46	3.52	1.42	46.44	0.88	0.35	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.04
ADJUSTMENTS							DAY LEQ	58.12
Flow	16.38	-0.86	-4.81	10.34	-6.90	-10.85		
Distance	-1.86	-1.86	-1.86	-1.86	-1.86	-1.86		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.48	50.84	42.55	43.44	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Bundy Canyon Road
Segment: Mission Trail to Almond Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	12100.00
							SPEED	45.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	683.69	12.91	5.19	170.27	3.22	1.29	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	64.21
ADJUSTMENTS							DAY LEQ	62.28
Flow	21.51	4.27	0.32	15.47	-1.76	-5.72		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.23	52.27	52.84	55.20	46.24	46.80	GRADE dB	0.00

DAY LEQ 62.28 NIGHT LEQ 56.24

LDN 64.2

Roadway: Bundy Canyon Road
Segment: Mission Trail to Almond Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	12100.00
							SPEED	45.00
							DISTANCE	40.80
INPUT PARAMETERS								
Vehicles per hour	683.69	12.91	5.19	170.27	3.22	1.29	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	21.51	4.27	0.32	15.47	-1.76	-5.72		
Distance	1.22	1.22	1.22	1.22	1.22	1.22		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Bundy Canyon Road
Segment: Mission Trail to Almond Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	12100.00
							SPEED	45.00
							DISTANCE	87.90
INPUT PARAMETERS								
Vehicles per hour	683.69	12.91	5.19	170.27	3.22	1.29	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	21.51	4.27	0.32	15.47	-1.76	-5.72		
Distance	-3.78	-3.78	-3.78	-3.78	-3.78	-3.78		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Bundy Canyon Road
Segment: Mission Trail to Almond Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	12100.00
							SPEED	45.00
							DISTANCE	189.30
INPUT PARAMETERS								
Vehicles per hour	683.69	12.91	5.19	170.27	3.22	1.29	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	21.51	4.27	0.32	15.47	-1.76	-5.72		
Distance	-8.78	-8.78	-8.78	-8.78	-8.78	-8.78		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Railroad Canyon Road
Segment: Almond Street to Orange Street

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1260.03	23.80	9.57	313.80	5.93	2.38
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24
ADJUSTMENTS						
Flow	26.72	9.48	5.52	20.68	3.44	-0.51
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.54	50.95	53.14	50.50	44.91	47.11

DAY LEQ 58.93 NIGHT LEQ 52.89

LDN 60.9

ADT	22300.00
SPEED	25.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.86
DAY LEQ	58.93
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Railroad Canyon Road
Segment: Almond Street to Orange Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1260.03	23.80	9.57	313.80	5.93	2.38
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24
ADJUSTMENTS						
Flow	26.72	9.48	5.52	20.68	3.44	-0.51
Distance	4.57	4.57	4.57	4.57	4.57	4.57
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	65.73	60.14	62.33	59.69	54.10	56.30

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	22300.00
SPEED	25.00
DISTANCE	24.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Railroad Canyon Road
Segment: Almond Street to Orange Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1260.03	23.80	9.57	313.80	5.93	2.38
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24
ADJUSTMENTS						
Flow	26.72	9.48	5.52	20.68	3.44	-0.51
Distance	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	60.72	55.13	57.33	54.69	49.09	51.29

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

ADT	22300.00
SPEED	25.00
DISTANCE	52.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Railroad Canyon Road
Segment: Almond Street to Orange Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1260.03	23.80	9.57	313.80	5.93	2.38
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24
ADJUSTMENTS						
Flow	26.72	9.48	5.52	20.68	3.44	-0.51
Distance	-5.43	-5.43	-5.43	-5.43	-5.43	-5.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	55.73	50.14	52.34	49.69	44.10	46.30

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	22300.00
SPEED	25.00
DISTANCE	113.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Bundy Canyon Road
Segment: Interstate 15 to Cherry Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	23700.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1339.14	25.29	10.17	333.50	6.30	2.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	67.13
ADJUSTMENTS							DAY LEQ	65.20
Flow	24.43	7.19	3.24	18.39	1.15	-2.80		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	64.15	55.19	55.76	58.12	49.16	49.72	GRADE dB	0.00

DAY LEQ 65.20 NIGHT LEQ 59.16

LDN 67.1

Roadway: Bundy Canyon Road
Segment: Interstate 15 to Cherry Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	23700.00
							SPEED	45.00
-							DISTANCE	63.90
INPUT PARAMETERS								
Vehicles per hour	1339.14	25.29	10.17	333.50	6.30	2.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	24.43	7.19	3.24	18.39	1.15	-2.80		
Distance	-1.70	-1.70	-1.70	-1.70	-1.70	-1.70		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Bundy Canyon Road
Segment: Interstate 15 to Cherry Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	23700.00
							SPEED	45.00
-							DISTANCE	137.60
INPUT PARAMETERS								
Vehicles per hour	1339.14	25.29	10.17	333.50	6.30	2.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	24.43	7.19	3.24	18.39	1.15	-2.80		
Distance	-6.70	-6.70	-6.70	-6.70	-6.70	-6.70		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Bundy Canyon Road
Segment: Interstate 15 to Cherry Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	23700.00
							SPEED	45.00
-							DISTANCE	296.40
INPUT PARAMETERS								
Vehicles per hour	1339.14	25.29	10.17	333.50	6.30	2.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	24.43	7.19	3.24	18.39	1.15	-2.80		
Distance	-11.70	-11.70	-11.70	-11.70	-11.70	-11.70		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Canyon Hills Road
Segment: Railroad Canyon Road to Sprucewood Way

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	683.69	12.91	5.19	170.27	3.22	1.29
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.51	4.27	0.32	15.47	-1.76	-5.72
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.23	52.27	52.84	55.20	46.24	46.80

ADT	12100.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	64.21
DAY LEQ	62.28
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 62.28 NIGHT LEQ 56.24

LDN 64.2

Roadway: Canyon Hills Road
Segment: Railroad Canyon Road to Sprucewood Way
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	683.69	12.91	5.19	170.27	3.22	1.29
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.51	4.27	0.32	15.47	-1.76	-5.72
Distance	1.22	1.22	1.22	1.22	1.22	1.22
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.68	61.04	52.08	52.64

ADT	12100.00
SPEED	45.00
DISTANCE	40.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Canyon Hills Road
Segment: Railroad Canyon Road to Sprucewood Way
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	683.69	12.91	5.19	170.27	3.22	1.29
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.51	4.27	0.32	15.47	-1.76	-5.72
Distance	-3.78	-3.78	-3.78	-3.78	-3.78	-3.78
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.07	53.11	53.68	56.04	47.08	47.64

ADT	12100.00
SPEED	45.00
DISTANCE	87.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Canyon Hills Road
Segment: Railroad Canyon Road to Sprucewood Way
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	683.69	12.91	5.19	170.27	3.22	1.29
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.51	4.27	0.32	15.47	-1.76	-5.72
Distance	-8.78	-8.78	-8.78	-8.78	-8.78	-8.78
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	12100.00
SPEED	45.00
DISTANCE	189.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Central Avenue/SR-74
Segment: Interstate 15 to Collier Avenue

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33200.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1875.92	35.43	14.25	467.18	8.82	3.55	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	68.59
ADJUSTMENTS							DAY LEQ	66.66
Flow	25.89	8.66	4.70	19.86	2.62	-1.34		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	65.62	56.66	57.22	59.58	50.62	51.18	GRADE dB	0.00

DAY LEQ 66.66 NIGHT LEQ 60.62

LDN 68.6

Roadway: Central Avenue/SR-74
Segment: Interstate 15 to Collier Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33200.00
							SPEED	45.00
-							DISTANCE	80.00
INPUT PARAMETERS								
Vehicles per hour	1875.92	35.43	14.25	467.18	8.82	3.55	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	25.89	8.66	4.70	19.86	2.62	-1.34		
Distance	-3.17	-3.17	-3.17	-3.17	-3.17	-3.17		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Central Avenue/SR-74
Segment: Interstate 15 to Collier Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33200.00
							SPEED	45.00
-							DISTANCE	172.20
INPUT PARAMETERS								
Vehicles per hour	1875.92	35.43	14.25	467.18	8.82	3.55	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.89	8.66	4.70	19.86	2.62	-1.34		
Distance	-8.16	-8.16	-8.16	-8.16	-8.16	-8.16		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Central Avenue/SR-74
Segment: Interstate 15 to Collier Avenue
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33200.00
							SPEED	45.00
-							DISTANCE	371.00
INPUT PARAMETERS								
Vehicles per hour	1875.92	35.43	14.25	467.18	8.82	3.55	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.89	8.66	4.70	19.86	2.62	-1.34		
Distance	-13.16	-13.16	-13.16	-13.16	-13.16	-13.16		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Central Avenue/SR-74
Segment: Collier Avenue to Pasadena Avenue

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	2800.00
							SPEED	35.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	158.21	2.99	1.20	39.40	0.74	0.30	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	55.17
ADJUSTMENTS							DAY LEQ	53.24
Flow	16.25	-0.99	-4.95	10.21	-7.03	-10.99		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	51.74	44.22	45.48	45.70	38.18	39.44	GRADE dB	0.00

DAY LEQ 53.24 NIGHT LEQ 47.20

LDN 55.2

Roadway: Central Avenue/SR-74
Segment: Collier Avenue to Pasadena Avenue
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	2800.00
							SPEED	35.00
							DISTANCE	10.20
INPUT PARAMETERS								
Vehicles per hour	158.21	2.99	1.20	39.40	0.74	0.30	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	16.25	-0.99	-4.95	10.21	-7.03	-10.99		
Distance	10.25	10.25	10.25	10.25	10.25	10.25		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.61	59.09	60.35	60.57	53.05	54.31	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Central Avenue/SR-74
Segment: Collier Avenue to Pasadena Avenue
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	2800.00
							SPEED	35.00
							DISTANCE	22.00
INPUT PARAMETERS								
Vehicles per hour	158.21	2.99	1.20	39.40	0.74	0.30	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.03
ADJUSTMENTS							DAY LEQ	63.10
Flow	16.25	-0.99	-4.95	10.21	-7.03	-10.99		
Distance	5.24	5.24	5.24	5.24	5.24	5.24		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.60	54.08	55.34	55.56	48.04	49.30	GRADE dB	0.00

DAY LEQ 63.10 NIGHT LEQ 57.07

LDN 65.0

Roadway: Central Avenue/SR-74
Segment: Collier Avenue to Pasadena Avenue
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	2800.00
							SPEED	35.00
							DISTANCE	47.30
INPUT PARAMETERS								
Vehicles per hour	158.21	2.99	1.20	39.40	0.74	0.30	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.04
ADJUSTMENTS							DAY LEQ	58.12
Flow	16.25	-0.99	-4.95	10.21	-7.03	-10.99		
Distance	0.26	0.26	0.26	0.26	0.26	0.26		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.61	49.09	50.35	50.57	43.05	44.32	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Collier Avenue
Segment: Nichols Road to Riverside Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	7300.00
							SPEED	45.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	412.48	7.79	3.13	102.72	1.94	0.78	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	62.01
ADJUSTMENTS							DAY LEQ	60.08
Flow	19.32	2.08	-1.88	13.28	-3.96	-7.92		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	59.04	50.08	50.64	53.00	44.04	44.61	GRADE dB	0.00

DAY LEQ 60.08 NIGHT LEQ 54.05

LDN 62.0

Roadway: Collier Avenue
Segment: Nichols Road to Riverside Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	7300.00
							SPEED	45.00
							DISTANCE	29.20
INPUT PARAMETERS								
Vehicles per hour	412.48	7.79	3.13	102.72	1.94	0.78	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.03
ADJUSTMENTS							DAY LEQ	68.10
Flow	19.32	2.08	-1.88	13.28	-3.96	-7.92		
Distance	3.40	3.40	3.40	3.40	3.40	3.40		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.06	58.10	58.66	61.02	52.06	52.63	GRADE dB	0.00

DAY LEQ 68.10 NIGHT LEQ 62.07

LDN 70.0

Roadway: Collier Avenue
Segment: Nichols Road to Riverside Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	7300.00
							SPEED	45.00
							DISTANCE	62.80
INPUT PARAMETERS								
Vehicles per hour	412.48	7.79	3.13	102.72	1.94	0.78	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.11
Flow	19.32	2.08	-1.88	13.28	-3.96	-7.92		
Distance	-1.59	-1.59	-1.59	-1.59	-1.59	-1.59		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.67	56.03	47.07	47.64	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

Roadway: Collier Avenue
Segment: Nichols Road to Riverside Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	7300.00
							SPEED	45.00
							DISTANCE	135.20
INPUT PARAMETERS								
Vehicles per hour	412.48	7.79	3.13	102.72	1.94	0.78	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	19.32	2.08	-1.88	13.28	-3.96	-7.92		
Distance	-6.59	-6.59	-6.59	-6.59	-6.59	-6.59		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.11	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Collier Avenue
Segment: Riverside Drive to Central Avenue

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25900.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1463.44	27.64	11.12	364.46	6.88	2.77	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	67.51
ADJUSTMENTS							DAY LEQ	65.58
Flow	24.82	7.58	3.62	18.78	1.54	-2.42		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	64.54	55.58	56.14	58.50	49.54	50.11	GRADE dB	0.00

DAY LEQ 65.58 NIGHT LEQ 59.55

LDN 67.5

Roadway: Collier Avenue
Segment: Riverside Drive to Central Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25900.00
							SPEED	45.00
-							DISTANCE	67.80
INPUT PARAMETERS								
Vehicles per hour	1463.44	27.64	11.12	364.46	6.88	2.77	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	24.82	7.58	3.62	18.78	1.54	-2.42		
Distance	-2.09	-2.09	-2.09	-2.09	-2.09	-2.09		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Collier Avenue
Segment: Riverside Drive to Central Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25900.00
							SPEED	45.00
-							DISTANCE	146.00
INPUT PARAMETERS								
Vehicles per hour	1463.44	27.64	11.12	364.46	6.88	2.77	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	24.82	7.58	3.62	18.78	1.54	-2.42		
Distance	-7.09	-7.09	-7.09	-7.09	-7.09	-7.09		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Collier Avenue
Segment: Riverside Drive to Central Avenue
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25900.00
							SPEED	45.00
-							DISTANCE	314.40
INPUT PARAMETERS								
Vehicles per hour	1463.44	27.64	11.12	364.46	6.88	2.77	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	24.82	7.58	3.62	18.78	1.54	-2.42		
Distance	-12.08	-12.08	-12.08	-12.08	-12.08	-12.08		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Collier Avenue
Segment: Central Avenue to Chaney Street

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	548.08	10.35	4.16	136.50	2.58	1.04
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	20.55	3.31	-0.64	14.51	-2.73	-6.68
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	60.27	51.31	51.88	54.24	45.28	45.84

DAY LEQ 61.32 NIGHT LEQ 55.28

LDN 63.2

ADT	9700.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	63.25
DAY LEQ	61.32
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Collier Avenue
Segment: Central Avenue to Chaney Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	548.08	10.35	4.16	136.50	2.58	1.04
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	20.55	3.31	-0.64	14.51	-2.73	-6.68
Distance	2.18	2.18	2.18	2.18	2.18	2.18
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.12	58.68	61.04	52.08	52.64

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	9700.00
SPEED	45.00
DISTANCE	35.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Collier Avenue
Segment: Central Avenue to Chaney Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	548.08	10.35	4.16	136.50	2.58	1.04
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	20.55	3.31	-0.64	14.51	-2.73	-6.68
Distance	-2.82	-2.82	-2.82	-2.82	-2.82	-2.82
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.07	53.11	53.67	56.03	47.07	47.64

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

ADT	9700.00
SPEED	45.00
DISTANCE	75.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Collier Avenue
Segment: Central Avenue to Chaney Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	548.08	10.35	4.16	136.50	2.58	1.04
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	20.55	3.31	-0.64	14.51	-2.73	-6.68
Distance	-7.82	-7.82	-7.82	-7.82	-7.82	-7.82
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	9700.00
SPEED	45.00
DISTANCE	163.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Bundy Canyon Road
Segment: Mission Trail to Bryant Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	8800.00
							SPEED	40.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	497.23	9.39	3.78	123.83	2.34	0.94	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	61.55
ADJUSTMENTS							DAY LEQ	59.62
Flow	20.64	3.40	-0.56	14.60	-2.64	-6.59		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	58.38	50.09	50.98	52.34	44.06	44.95	GRADE dB	0.00

DAY LEQ 59.62 NIGHT LEQ 53.58

LDN 61.5

Roadway: Bundy Canyon Road
Segment: Mission Trail to Bryant Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	8800.00
							SPEED	40.00
							DISTANCE	27.20
INPUT PARAMETERS								
Vehicles per hour	497.23	9.39	3.78	123.83	2.34	0.94	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.03
ADJUSTMENTS							DAY LEQ	68.10
Flow	20.64	3.40	-0.56	14.60	-2.64	-6.59		
Distance	3.86	3.86	3.86	3.86	3.86	3.86		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.86	58.57	59.47	60.82	52.54	53.43	GRADE dB	0.00

DAY LEQ 68.10 NIGHT LEQ 62.06

LDN 70.0

Roadway: Bundy Canyon Road
Segment: Mission Trail to Bryant Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	8800.00
							SPEED	40.00
							DISTANCE	58.50
INPUT PARAMETERS								
Vehicles per hour	497.23	9.39	3.78	123.83	2.34	0.94	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.11
Flow	20.64	3.40	-0.56	14.60	-2.64	-6.59		
Distance	-1.13	-1.13	-1.13	-1.13	-1.13	-1.13		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.87	53.59	54.48	55.83	47.55	48.44	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.07

LDN 65.0

Roadway: Bundy Canyon Road
Segment: Mission Trail to Bryant Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	8800.00
							SPEED	40.00
							DISTANCE	125.90
INPUT PARAMETERS								
Vehicles per hour	497.23	9.39	3.78	123.83	2.34	0.94	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	20.64	3.40	-0.56	14.60	-2.64	-6.59		
Distance	-6.12	-6.12	-6.12	-6.12	-6.12	-6.12		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.48	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Corydon Street
Segment: Palomar Street to Grand Avenue

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7900.00
-							SPEED	40.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	446.38	8.43	3.39	111.17	2.10	0.84	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	61.08
ADJUSTMENTS							DAY LEQ	59.15
Flow	20.17	2.93	-1.02	14.13	-3.10	-7.06		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.91	49.62	50.52	51.87	43.59	44.48	GRADE dB	0.00

DAY LEQ 59.15 NIGHT LEQ 53.11

LDN 61.1

Roadway: Corydon Street
Segment: Palomar Street to Grand Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7900.00
-							SPEED	40.00
							DISTANCE	25.30
INPUT PARAMETERS								
Vehicles per hour	446.38	8.43	3.39	111.17	2.10	0.84	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.03
ADJUSTMENTS							DAY LEQ	68.10
Flow	20.17	2.93	-1.02	14.13	-3.10	-7.06		
Distance	4.33	4.33	4.33	4.33	4.33	4.33		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.86	58.58	59.47	60.83	52.54	53.43	GRADE dB	0.00

DAY LEQ 68.10 NIGHT LEQ 62.07

LDN 70.0

Roadway: Corydon Street
Segment: Palomar Street to Grand Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7900.00
-							SPEED	40.00
							DISTANCE	54.40
INPUT PARAMETERS								
Vehicles per hour	446.38	8.43	3.39	111.17	2.10	0.84	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.12
Flow	20.17	2.93	-1.02	14.13	-3.10	-7.06		
Distance	-0.65	-0.65	-0.65	-0.65	-0.65	-0.65		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.55	48.44	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Corydon Street
Segment: Palomar Street to Grand Avenue
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7900.00
-							SPEED	40.00
							DISTANCE	117.20
INPUT PARAMETERS								
Vehicles per hour	446.38	8.43	3.39	111.17	2.10	0.84	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.04
ADJUSTMENTS							DAY LEQ	58.12
Flow	20.17	2.93	-1.02	14.13	-3.10	-7.06		
Distance	-5.65	-5.65	-5.65	-5.65	-5.65	-5.65		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.48	50.84	42.55	43.44	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Diamond Drive
Segment: Interstate 15 to Lakeshore Drive

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	22600.00
							SPEED	30.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1276.98	24.12	9.70	318.02	6.01	2.42	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	62.67
ADJUSTMENTS							DAY LEQ	60.74
Flow	25.98	8.75	4.79	19.95	2.71	-1.25		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	58.88	52.24	53.93	52.84	46.20	47.89	GRADE dB	0.00

DAY LEQ 60.74 NIGHT LEQ 54.71

LDN 62.7

Roadway: Diamond Drive
Segment: Interstate 15 to Lakeshore Drive
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	22600.00
							SPEED	30.00
-							DISTANCE	32.30
INPUT PARAMETERS								
Vehicles per hour	1276.98	24.12	9.70	318.02	6.01	2.42	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	70.03
ADJUSTMENTS							DAY LEQ	68.11
Flow	25.98	8.75	4.79	19.95	2.71	-1.25		
Distance	2.74	2.74	2.74	2.74	2.74	2.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.24	59.60	61.29	60.20	53.56	55.26	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Diamond Drive
Segment: Interstate 15 to Lakeshore Drive
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	22600.00
							SPEED	30.00
-							DISTANCE	69.50
INPUT PARAMETERS								
Vehicles per hour	1276.98	24.12	9.70	318.02	6.01	2.42	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.11
Flow	25.98	8.75	4.79	19.95	2.71	-1.25		
Distance	-2.25	-2.25	-2.25	-2.25	-2.25	-2.25		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.25	54.61	56.30	55.21	48.57	50.26	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

Roadway: Diamond Drive
Segment: Interstate 15 to Lakeshore Drive
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	22600.00
							SPEED	30.00
-							DISTANCE	149.60
INPUT PARAMETERS								
Vehicles per hour	1276.98	24.12	9.70	318.02	6.01	2.42	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.98	8.75	4.79	19.95	2.71	-1.25		
Distance	-7.24	-7.24	-7.24	-7.24	-7.24	-7.24		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.25	49.62	51.31	50.22	43.58	45.27	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Diamond Drive
Segment: Lakeshore Drive to Campbell Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	2700.00
							SPEED	35.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	152.56	2.88	1.16	37.99	0.72	0.29	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	55.01
ADJUSTMENTS							DAY LEQ	53.08
Flow	16.09	-1.15	-5.11	10.05	-7.19	-11.14		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	51.58	44.06	45.32	45.54	38.02	39.28	GRADE dB	0.00

DAY LEQ 53.08 NIGHT LEQ 47.04

LDN 55.0

Roadway: Diamond Drive
Segment: Lakeshore Drive to Campbell Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	2700.00
							SPEED	35.00
							DISTANCE	10.00
INPUT PARAMETERS								
Vehicles per hour	152.56	2.88	1.16	37.99	0.72	0.29	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	70.01
ADJUSTMENTS							DAY LEQ	68.08
Flow	16.09	-1.15	-5.11	10.05	-7.19	-11.14		
Distance	10.38	10.38	10.38	10.38	10.38	10.38		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.58	59.06	60.32	60.54	53.02	54.28	GRADE dB	0.00

DAY LEQ 68.08 NIGHT LEQ 62.04

LDN 70.0

Roadway: Diamond Drive
Segment: Lakeshore Drive to Campbell Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	2700.00
							SPEED	35.00
							DISTANCE	21.50
INPUT PARAMETERS								
Vehicles per hour	152.56	2.88	1.16	37.99	0.72	0.29	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.02
ADJUSTMENTS							DAY LEQ	63.09
Flow	16.09	-1.15	-5.11	10.05	-7.19	-11.14		
Distance	5.39	5.39	5.39	5.39	5.39	5.39		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.59	54.07	55.33	55.55	48.03	49.30	GRADE dB	0.00

DAY LEQ 63.09 NIGHT LEQ 57.06

LDN 65.0

Roadway: Diamond Drive
Segment: Lakeshore Drive to Campbell Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	2700.00
							SPEED	35.00
							DISTANCE	46.20
INPUT PARAMETERS								
Vehicles per hour	152.56	2.88	1.16	37.99	0.72	0.29	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.04
ADJUSTMENTS							DAY LEQ	58.11
Flow	16.09	-1.15	-5.11	10.05	-7.19	-11.14		
Distance	0.41	0.41	0.41	0.41	0.41	0.41		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.61	49.09	50.35	50.57	43.05	44.31	GRADE dB	0.00

DAY LEQ 58.11 NIGHT LEQ 52.07

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Franklin Street
Segment: Avenue 6 to Auto Center Drive

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5600.00
							SPEED	25.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	316.42	5.98	2.40	78.80	1.49	0.60	% A	97.42
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24	Ldn	54.85
ADJUSTMENTS							DAY LEQ	52.93
Flow	20.72	3.48	-0.48	14.68	-2.56	-6.51		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	50.54	44.95	47.14	44.50	38.91	41.11	GRADE dB	0.00

DAY LEQ 52.93 NIGHT LEQ 46.89

LDN 54.9

Roadway: Franklin Street
Segment: Avenue 6 to Auto Center Drive
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5600.00
							SPEED	25.00
-							DISTANCE	9.80
INPUT PARAMETERS								
Vehicles per hour	316.42	5.98	2.40	78.80	1.49	0.60	% A	97.42
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24	Ldn	69.99
ADJUSTMENTS							DAY LEQ	68.06
Flow	20.72	3.48	-0.48	14.68	-2.56	-6.51		
Distance	10.51	10.51	10.51	10.51	10.51	10.51		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	65.67	60.08	62.27	59.63	54.04	56.24	GRADE dB	0.00

DAY LEQ 68.06 NIGHT LEQ 62.02

LDN 70.0

Roadway: Franklin Street
Segment: Avenue 6 to Auto Center Drive
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5600.00
							SPEED	25.00
-							DISTANCE	21.00
INPUT PARAMETERS								
Vehicles per hour	316.42	5.98	2.40	78.80	1.49	0.60	% A	97.42
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24	Ldn	65.02
ADJUSTMENTS							DAY LEQ	63.09
Flow	20.72	3.48	-0.48	14.68	-2.56	-6.51		
Distance	5.55	5.55	5.55	5.55	5.55	5.55		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	60.70	55.11	57.31	54.67	49.08	51.27	GRADE dB	0.00

DAY LEQ 63.09 NIGHT LEQ 57.06

LDN 65.0

Roadway: Franklin Street
Segment: Avenue 6 to Auto Center Drive
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5600.00
							SPEED	25.00
-							DISTANCE	45.10
INPUT PARAMETERS								
Vehicles per hour	316.42	5.98	2.40	78.80	1.49	0.60	% A	97.42
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24	Ldn	60.04
ADJUSTMENTS							DAY LEQ	58.11
Flow	20.72	3.48	-0.48	14.68	-2.56	-6.51		
Distance	0.57	0.57	0.57	0.57	0.57	0.57		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	55.72	50.13	52.33	49.69	44.10	46.29	GRADE dB	0.00

DAY LEQ 58.11 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Graham Avenue
Segment: Spring Street to Main Street

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	463.33	8.75	3.52	115.39	2.18	0.88
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	21.58	4.34	0.39	15.54	-1.69	-5.65
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	54.47	47.84	49.53	48.44	41.80	43.49

DAY LEQ 56.34 NIGHT LEQ 50.30

LDN 58.3

ADT	8200.00
SPEED	30.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	58.27
DAY LEQ	56.34
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Graham Avenue
Segment: Spring Street to Main Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	463.33	8.75	3.52	115.39	2.18	0.88
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	21.58	4.34	0.39	15.54	-1.69	-5.65
Distance	7.16	7.16	7.16	7.16	7.16	7.16
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.25	59.61	61.31	60.21	53.58	55.27

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	8200.00
SPEED	30.00
DISTANCE	16.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Graham Avenue
Segment: Spring Street to Main Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	463.33	8.75	3.52	115.39	2.18	0.88
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	21.58	4.34	0.39	15.54	-1.69	-5.65
Distance	2.14	2.14	2.14	2.14	2.14	2.14
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.24	54.60	56.29	55.20	48.57	50.26

DAY LEQ 63.11 NIGHT LEQ 57.07

LDN 65.0

ADT	8200.00
SPEED	30.00
DISTANCE	35.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.03
DAY LEQ	63.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Graham Avenue
Segment: Spring Street to Main Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	463.33	8.75	3.52	115.39	2.18	0.88
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	21.58	4.34	0.39	15.54	-1.69	-5.65
Distance	-2.84	-2.84	-2.84	-2.84	-2.84	-2.84
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.25	49.62	51.31	50.22	43.58	45.27

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	8200.00
SPEED	30.00
DISTANCE	76.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Grand Avenue
Segment: Riverside Drive to Macy Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	21400.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1209.18	22.84	9.18	301.14	5.69	2.29	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.41
ADJUSTMENTS							DAY LEQ	63.48
Flow	24.50	7.26	3.30	18.46	1.22	-2.73		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.24	53.95	54.84	56.20	47.92	48.81	GRADE dB	0.00

DAY LEQ 63.48 NIGHT LEQ 57.44

LDN 65.4

Roadway: Grand Avenue
Segment: Riverside Drive to Macy Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	21400.00
							SPEED	40.00
-							DISTANCE	49.10
INPUT PARAMETERS								
Vehicles per hour	1209.18	22.84	9.18	301.14	5.69	2.29	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	24.50	7.26	3.30	18.46	1.22	-2.73		
Distance	0.01	0.01	0.01	0.01	0.01	0.01		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.87	58.59	59.48	60.83	52.55	53.44	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Grand Avenue
Segment: Riverside Drive to Macy Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	21400.00
							SPEED	40.00
-							DISTANCE	105.70
INPUT PARAMETERS								
Vehicles per hour	1209.18	22.84	9.18	301.14	5.69	2.29	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	24.50	7.26	3.30	18.46	1.22	-2.73		
Distance	-4.98	-4.98	-4.98	-4.98	-4.98	-4.98		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.55	48.44	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Grand Avenue
Segment: Riverside Drive to Macy Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	21400.00
							SPEED	40.00
-							DISTANCE	227.60
INPUT PARAMETERS								
Vehicles per hour	1209.18	22.84	9.18	301.14	5.69	2.29	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	24.50	7.26	3.30	18.46	1.22	-2.73		
Distance	-9.98	-9.98	-9.98	-9.98	-9.98	-9.98		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Grand Avenue
Segment: Macy Street to SR-74

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1090.52	20.60	8.28	271.59	5.13	2.06
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.05	6.81	2.86	18.01	0.77	-3.18
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.79	53.50	54.39	55.75	47.47	48.36

DAY LEQ 63.03 NIGHT LEQ 56.99

LDN 65.0

ADT	19300.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	64.96
DAY LEQ	63.03
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Grand Avenue
Segment: Macy Street to SR-74
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1090.52	20.60	8.28	271.59	5.13	2.06
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.05	6.81	2.86	18.01	0.77	-3.18
Distance	0.47	0.47	0.47	0.47	0.47	0.47
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.88	58.59	59.48	60.84	52.55	53.44

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	19300.00
SPEED	40.00
DISTANCE	45.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Grand Avenue
Segment: Macy Street to SR-74
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1090.52	20.60	8.28	271.59	5.13	2.06
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.05	6.81	2.86	18.01	0.77	-3.18
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.79	53.50	54.39	55.75	47.47	48.36

DAY LEQ 63.03 NIGHT LEQ 56.99

LDN 65.0

ADT	19300.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	64.96
DAY LEQ	63.03
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Grand Avenue
Segment: Macy Street to SR-74
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1090.52	20.60	8.28	271.59	5.13	2.06
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.05	6.81	2.86	18.01	0.77	-3.18
Distance	-9.53	-9.53	-9.53	-9.53	-9.53	-9.53
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.48	50.84	42.56	43.45

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	19300.00
SPEED	40.00
DISTANCE	212.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Grand Avenue
Segment: SR-74 to Adelpha Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	16500.00
-							SPEED	45.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	932.31	17.61	7.08	232.18	4.39	1.76	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.55
ADJUSTMENTS							DAY LEQ	63.63
Flow	22.86	5.62	1.66	16.82	-0.42	-4.37		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.58	53.62	54.18	56.54	47.58	48.15	GRADE dB	0.00

DAY LEQ 63.63 NIGHT LEQ 57.59

LDN 65.6

Roadway: Grand Avenue
Segment: SR-74 to Adelpha Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	16500.00
-							SPEED	45.00
							DISTANCE	50.20
INPUT PARAMETERS								
Vehicles per hour	932.31	17.61	7.08	232.18	4.39	1.76	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	22.86	5.62	1.66	16.82	-0.42	-4.37		
Distance	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Grand Avenue
Segment: SR-74 to Adelpha Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	16500.00
-							SPEED	45.00
							DISTANCE	108.10
INPUT PARAMETERS								
Vehicles per hour	932.31	17.61	7.08	232.18	4.39	1.76	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	22.86	5.62	1.66	16.82	-0.42	-4.37		
Distance	-5.13	-5.13	-5.13	-5.13	-5.13	-5.13		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Grand Avenue
Segment: SR-74 to Adelpha Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	16500.00
-							SPEED	45.00
							DISTANCE	232.80
INPUT PARAMETERS								
Vehicles per hour	932.31	17.61	7.08	232.18	4.39	1.76	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	22.86	5.62	1.66	16.82	-0.42	-4.37		
Distance	-10.13	-10.13	-10.13	-10.13	-10.13	-10.13		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Grand Avenue
Segment: Adelfa Street to Corydon Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1254.38	23.69	9.53	312.39	5.90	2.37
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.15	6.91	2.95	18.11	0.87	-3.09
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	63.87	54.91	55.47	57.83	48.87	49.44

DAY LEQ 64.91 NIGHT LEQ 58.88

LDN 66.8

ADT	22200.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	66.84
DAY LEQ	64.91
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Grand Avenue
Segment: Adelfa Street to Corydon Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1254.38	23.69	9.53	312.39	5.90	2.37
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.15	6.91	2.95	18.11	0.87	-3.09
Distance	-1.42	-1.42	-1.42	-1.42	-1.42	-1.42
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.67	61.03	52.07	52.63

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

ADT	22200.00
SPEED	45.00
DISTANCE	61.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Grand Avenue
Segment: Adelfa Street to Corydon Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1254.38	23.69	9.53	312.39	5.90	2.37
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.15	6.91	2.95	18.11	0.87	-3.09
Distance	-6.41	-6.41	-6.41	-6.41	-6.41	-6.41
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	22200.00
SPEED	45.00
DISTANCE	131.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Grand Avenue
Segment: Adelfa Street to Corydon Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1254.38	23.69	9.53	312.39	5.90	2.37
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.15	6.91	2.95	18.11	0.87	-3.09
Distance	-11.41	-11.41	-11.41	-11.41	-11.41	-11.41
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	22200.00
SPEED	45.00
DISTANCE	283.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Grand Avenue
Segment: Corydon Street to Bryant Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	16800.00
							SPEED	45.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	949.26	17.93	7.21	236.41	4.47	1.80	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.63
ADJUSTMENTS							DAY LEQ	63.70
Flow	22.94	5.70	1.74	16.90	-0.34	-4.30		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.66	53.70	54.26	56.62	47.66	48.23	GRADE dB	0.00

DAY LEQ 63.70 NIGHT LEQ 57.67

LDN 65.6

Roadway: Grand Avenue
Segment: Corydon Street to Bryant Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	16800.00
							SPEED	45.00
							DISTANCE	50.80
INPUT PARAMETERS								
Vehicles per hour	949.26	17.93	7.21	236.41	4.47	1.80	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	22.94	5.70	1.74	16.90	-0.34	-4.30		
Distance	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Grand Avenue
Segment: Corydon Street to Bryant Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	16800.00
							SPEED	45.00
							DISTANCE	109.40
INPUT PARAMETERS								
Vehicles per hour	949.26	17.93	7.21	236.41	4.47	1.80	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	22.94	5.70	1.74	16.90	-0.34	-4.30		
Distance	-5.21	-5.21	-5.21	-5.21	-5.21	-5.21		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Grand Avenue
Segment: Corydon Street to Bryant Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	16800.00
							SPEED	45.00
							DISTANCE	235.60
INPUT PARAMETERS								
Vehicles per hour	949.26	17.93	7.21	236.41	4.47	1.80	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	22.94	5.70	1.74	16.90	-0.34	-4.30		
Distance	-10.20	-10.20	-10.20	-10.20	-10.20	-10.20		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Grape Street
Segment: Railroad Canyon Road to Malaga Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	830.60	15.69	6.31	206.86	3.91	1.57
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	23.45	6.21	2.25	17.41	0.17	-3.78
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	58.94	51.42	52.68	52.90	45.38	46.64

ADT	14700.00
SPEED	35.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	62.37
DAY LEQ	60.44
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 60.44 NIGHT LEQ 54.40

LDN 62.4

Roadway: Grape Street
Segment: Railroad Canyon Road to Malaga Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	830.60	15.69	6.31	206.86	3.91	1.57
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	23.45	6.21	2.25	17.41	0.17	-3.78
Distance	3.05	3.05	3.05	3.05	3.05	3.05
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.61	59.09	60.35	60.57	53.05	54.31

ADT	14700.00
SPEED	35.00
DISTANCE	30.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Grape Street
Segment: Railroad Canyon Road to Malaga Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	830.60	15.69	6.31	206.86	3.91	1.57
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	23.45	6.21	2.25	17.41	0.17	-3.78
Distance	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.61	54.09	55.36	55.58	48.06	49.32

ADT	14700.00
SPEED	35.00
DISTANCE	66.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Grape Street
Segment: Railroad Canyon Road to Malaga Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	830.60	15.69	6.31	206.86	3.91	1.57
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	23.45	6.21	2.25	17.41	0.17	-3.78
Distance	-6.94	-6.94	-6.94	-6.94	-6.94	-6.94
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.62	49.10	50.36	50.58	43.06	44.32

ADT	14700.00
SPEED	35.00
DISTANCE	142.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Greenwald Avenue
Segment: SR-74 to Vacation Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	226.01	4.27	1.72	56.29	1.06	0.43
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	16.25	-0.99	-4.95	10.21	-7.03	-10.99
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.75	48.18	48.45	51.71	42.14	42.41

ADT	4000.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.57
DAY LEQ	58.64
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.64 NIGHT LEQ 52.60

LDN 60.6

Roadway: Greenwald Avenue
Segment: SR-74 to Vacation Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	226.01	4.27	1.72	56.29	1.06	0.43
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	16.25	-0.99	-4.95	10.21	-7.03	-10.99
Distance	4.84	4.84	4.84	4.84	4.84	4.84
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.21	57.64	57.91	61.17	51.61	51.88

ADT	4000.00
SPEED	50.00
DISTANCE	23.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.03
DAY LEQ	68.10
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.10 NIGHT LEQ 62.06

LDN 70.0

Roadway: Greenwald Avenue
Segment: SR-74 to Vacation Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	226.01	4.27	1.72	56.29	1.06	0.43
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	16.25	-0.99	-4.95	10.21	-7.03	-10.99
Distance	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.22	52.66	52.93	56.18	46.62	46.89

ADT	4000.00
SPEED	50.00
DISTANCE	50.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

Roadway: Greenwald Avenue
Segment: SR-74 to Vacation Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	226.01	4.27	1.72	56.29	1.06	0.43
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	16.25	-0.99	-4.95	10.21	-7.03	-10.99
Distance	-5.14	-5.14	-5.14	-5.14	-5.14	-5.14
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.62	41.89

ADT	4000.00
SPEED	50.00
DISTANCE	108.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Clinton Keith Road to Baxter Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	127000.00
							SPEED	70.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	7175.96	135.53	54.51	1787.12	33.75	13.57	% A	97.42
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83	Ldn	79.44
ADJUSTMENTS							DAY LEQ	77.51
Flow	29.80	12.56	8.61	23.76	6.53	2.57		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	76.97	65.48	64.81	70.93	59.44	58.78	GRADE dB	0.00

DAY LEQ 77.51 NIGHT LEQ 71.47

LDN 79.4

Roadway: Interstate 15
Segment: Clinton Keith Road to Baxter Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	127000.00
							SPEED	70.00
-							DISTANCE	422.50
INPUT PARAMETERS								
Vehicles per hour	7175.96	135.53	54.51	1787.12	33.75	13.57	% A	97.42
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	29.80	12.56	8.61	23.76	6.53	2.57		
Distance	-14.01	-14.01	-14.01	-14.01	-14.01	-14.01		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.58	56.09	55.43	61.55	50.05	49.39	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: Clinton Keith Road to Baxter Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	127000.00
							SPEED	70.00
-							DISTANCE	910.20
INPUT PARAMETERS								
Vehicles per hour	7175.96	135.53	54.51	1787.12	33.75	13.57	% A	97.42
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	29.80	12.56	8.61	23.76	6.53	2.57		
Distance	-19.01	-19.01	-19.01	-19.01	-19.01	-19.01		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.58	51.09	50.43	56.55	45.05	44.39	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: Clinton Keith Road to Baxter Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	127000.00
							SPEED	70.00
-							DISTANCE	1961.00
INPUT PARAMETERS								
Vehicles per hour	7175.96	135.53	54.51	1787.12	33.75	13.57	% A	97.42
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	29.80	12.56	8.61	23.76	6.53	2.57		
Distance	-24.01	-24.01	-24.01	-24.01	-24.01	-24.01		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.58	46.09	45.43	51.55	40.05	39.39	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Baxter Road to Bundy Canyon Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	120000.00
Vehicles per hour	6780.43	128.06	51.50	1688.61	31.89	12.83	SPEED	70.00
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00	DISTANCE	100.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	29.56	12.32	8.36	23.52	6.28	2.32	Ldn	79.19
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62	DAY LEQ	77.26
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	76.73	65.23	64.57	70.69	59.19	58.53	GRADE dB	0.00

DAY LEQ 77.26 NIGHT LEQ 71.23

LDN 79.2

Roadway: Interstate 15
Segment: Baxter Road to Bundy Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	120000.00
Vehicles per hour	6780.43	128.06	51.50	1688.61	31.89	12.83	SPEED	70.00
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00	DISTANCE	406.80
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	29.56	12.32	8.36	23.52	6.28	2.32	Ldn	70.05
Distance	-13.76	-13.76	-13.76	-13.76	-13.76	-13.76	DAY LEQ	68.12
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.58	56.09	55.43	61.55	50.05	49.39	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: Baxter Road to Bundy Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	120000.00
Vehicles per hour	6780.43	128.06	51.50	1688.61	31.89	12.83	SPEED	70.00
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00	DISTANCE	876.50
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	29.56	12.32	8.36	23.52	6.28	2.32	Ldn	65.05
Distance	-18.76	-18.76	-18.76	-18.76	-18.76	-18.76	DAY LEQ	63.12
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.58	51.09	50.43	56.55	45.05	44.39	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: Baxter Road to Bundy Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	120000.00
Vehicles per hour	6780.43	128.06	51.50	1688.61	31.89	12.83	SPEED	70.00
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00	DISTANCE	1888.20
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	29.56	12.32	8.36	23.52	6.28	2.32	Ldn	60.05
Distance	-23.76	-23.76	-23.76	-23.76	-23.76	-23.76	DAY LEQ	58.12
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.58	46.09	45.43	51.55	40.05	39.39	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Bundy Canyon Road to Railroad Canyon Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6554.42	123.80	49.79	1632.33	30.83	12.40
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.41	12.17	8.21	23.37	6.13	2.18
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	76.58	65.08	64.42	70.54	59.05	58.38

ADT	116000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	79.04
DAY LEQ	77.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 77.12 NIGHT LEQ 71.08

LDN 79.0

Roadway: Interstate 15
Segment: Bundy Canyon Road to Railroad Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6554.42	123.80	49.79	1632.33	30.83	12.40
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.41	12.17	8.21	23.37	6.13	2.18
Distance	-13.62	-13.62	-13.62	-13.62	-13.62	-13.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.42	61.55	50.05	49.39

ADT	116000.00
SPEED	70.00
DISTANCE	397.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: Bundy Canyon Road to Railroad Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6554.42	123.80	49.79	1632.33	30.83	12.40
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.41	12.17	8.21	23.37	6.13	2.18
Distance	-18.61	-18.61	-18.61	-18.61	-18.61	-18.61
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

ADT	116000.00
SPEED	40.00
DISTANCE	856.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: Bundy Canyon Road to Railroad Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6554.42	123.80	49.79	1632.33	30.83	12.40
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.41	12.17	8.21	23.37	6.13	2.18
Distance	-23.61	-23.61	-23.61	-23.61	-23.61	-23.61
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

ADT	116000.00
SPEED	70.00
DISTANCE	1846.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Railroad Canyon Road to Main Street

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	7006.45	132.33	53.22	1744.90	32.96	13.25
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.70	12.46	8.50	23.66	6.42	2.47
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	76.87	65.37	64.71	70.83	59.34	58.67

ADT	124000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	79.33
DAY LEQ	77.40
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 77.40 NIGHT LEQ 71.37

LDN 79.3

Roadway: Interstate 15
Segment: Railroad Canyon Road to Main Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	7006.45	132.33	53.22	1744.90	32.96	13.25
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.70	12.46	8.50	23.66	6.42	2.47
Distance	-13.90	-13.90	-13.90	-13.90	-13.90	-13.90
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.43	61.55	50.05	49.39

ADT	124000.00
SPEED	70.00
DISTANCE	415.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: Railroad Canyon Road to Main Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	7006.45	132.33	53.22	1744.90	32.96	13.25
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.70	12.46	8.50	23.66	6.42	2.47
Distance	-18.90	-18.90	-18.90	-18.90	-18.90	-18.90
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

ADT	124000.00
SPEED	70.00
DISTANCE	895.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: Railroad Canyon Road to Main Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	7006.45	132.33	53.22	1744.90	32.96	13.25
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.70	12.46	8.50	23.66	6.42	2.47
Distance	-23.90	-23.90	-23.90	-23.90	-23.90	-23.90
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

ADT	124000.00
SPEED	70.00
DISTANCE	1930.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Main Street to SR-74 Juncton

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6780.43	128.06	51.50	1688.61	31.89	12.83
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.56	12.32	8.36	23.52	6.28	2.32
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	76.73	65.23	64.57	70.69	59.19	58.53

ADT	120000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	79.19
DAY LEQ	77.26
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 77.26 NIGHT LEQ 71.23

LDN 79.2

Roadway: Interstate 15
Segment: Main Street to SR-74 Juncton
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6780.43	128.06	51.50	1688.61	31.89	12.83
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.56	12.32	8.36	23.52	6.28	2.32
Distance	-13.76	-13.76	-13.76	-13.76	-13.76	-13.76
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.43	61.55	50.05	49.39

ADT	120000.00
SPEED	70.00
DISTANCE	406.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: Main Street to SR-74 Juncton
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6780.43	128.06	51.50	1688.61	31.89	12.83
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.56	12.32	8.36	23.52	6.28	2.32
Distance	-18.76	-18.76	-18.76	-18.76	-18.76	-18.76
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

ADT	120000.00
SPEED	70.00
DISTANCE	876.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: Main Street to SR-74 Juncton
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6780.43	128.06	51.50	1688.61	31.89	12.83
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.56	12.32	8.36	23.52	6.28	2.32
Distance	-23.76	-23.76	-23.76	-23.76	-23.76	-23.76
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

ADT	120000.00
SPEED	70.00
DISTANCE	1888.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: SR-74 Junction to Nichols Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6102.39	115.26	46.35	1519.75	28.70	11.54
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.10	11.86	7.90	23.06	5.82	1.87
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	76.27	64.77	64.11	70.23	58.74	58.07

ADT	108000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	78.73
DAY LEQ	76.80
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 76.80 NIGHT LEQ 70.77

LDN 78.7

Roadway: Interstate 15
Segment: SR-74 Junction to Nichols Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6102.39	115.26	46.35	1519.75	28.70	11.54
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.10	11.86	7.90	23.06	5.82	1.87
Distance	-13.31	-13.31	-13.31	-13.31	-13.31	-13.31
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.42	61.55	50.05	49.39

ADT	108000.00
SPEED	70.00
DISTANCE	379.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: SR-74 Junction to Nichols Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6102.39	115.26	46.35	1519.75	28.70	11.54
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.10	11.86	7.90	23.06	5.82	1.87
Distance	-18.30	-18.30	-18.30	-18.30	-18.30	-18.30
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

ADT	108000.00
SPEED	70.00
DISTANCE	817.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: SR-74 Junction to Nichols Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6102.39	115.26	46.35	1519.75	28.70	11.54
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.10	11.86	7.90	23.06	5.82	1.87
Distance	-23.30	-23.30	-23.30	-23.30	-23.30	-23.30
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

ADT	108000.00
SPEED	70.00
DISTANCE	1760.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Nichols Road to Lake Street

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6215.40	117.39	47.21	1547.90	29.24	11.76
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.18	11.94	7.98	23.14	5.90	1.95
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	76.35	64.85	64.19	70.31	58.82	58.15

ADT	110000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	78.81
DAY LEQ	76.88
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 76.88 NIGHT LEQ 70.85

LDN 78.8

Roadway: Interstate 15
Segment: Nichols Road to Lake Street
Calculation for Distance to 70 Ldn Noise Contour

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6215.40	117.39	47.21	1547.90	29.24	11.76
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.18	11.94	7.98	23.14	5.90	1.95
Distance	-13.38	-13.38	-13.38	-13.38	-13.38	-13.38
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.43	61.55	50.05	49.39

ADT	110000.00
SPEED	70.00
DISTANCE	383.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: Nichols Road to Lake Street
Calculation for Distance to 65 Ldn Noise Contour

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6215.40	117.39	47.21	1547.90	29.24	11.76
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.18	11.94	7.98	23.14	5.90	1.95
Distance	-18.38	-18.38	-18.38	-18.38	-18.38	-18.38
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

ADT	110000.00
SPEED	70.00
DISTANCE	827.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: Nichols Road to Lake Street
Calculation for Distance to 60 Ldn Noise Contour

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6215.40	117.39	47.21	1547.90	29.24	11.76
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.18	11.94	7.98	23.14	5.90	1.95
Distance	-23.38	-23.38	-23.38	-23.38	-23.38	-23.38
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

ADT	110000.00
SPEED	70.00
DISTANCE	1781.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Lake Street to Indian Trail Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6554.42	123.80	49.79	1632.33	30.83	12.40
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.41	12.17	8.21	23.37	6.13	2.18
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	76.58	65.08	64.42	70.54	59.05	58.38

ADT	116000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	79.04
DAY LEQ	77.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 77.12 NIGHT LEQ 71.08

LDN 79.0

Roadway: Interstate 15
Segment: Lake Street to Indian Trail Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6554.42	123.80	49.79	1632.33	30.83	12.40
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.41	12.17	8.21	23.37	6.13	2.18
Distance	-13.62	-13.62	-13.62	-13.62	-13.62	-13.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.42	61.55	50.05	49.39

ADT	116000.00
SPEED	70.00
DISTANCE	397.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: Lake Street to Indian Trail Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6554.42	123.80	49.79	1632.33	30.83	12.40
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.41	12.17	8.21	23.37	6.13	2.18
Distance	-18.61	-18.61	-18.61	-18.61	-18.61	-18.61
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

ADT	116000.00
SPEED	70.00
DISTANCE	856.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: Lake Street to Indian Trail Road
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6554.42	123.80	49.79	1632.33	30.83	12.40
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.41	12.17	8.21	23.37	6.13	2.18
Distance	-23.61	-23.61	-23.61	-23.61	-23.61	-23.61
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

ADT	116000.00
SPEED	70.00
DISTANCE	1846.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Indian Trail Road to Temescal Canyon Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6949.94	131.27	52.79	1730.83	32.69	13.15
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.66	12.42	8.47	23.63	6.39	2.43
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	76.83	65.34	64.67	70.80	59.30	58.64

ADT	123000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	79.30
DAY LEQ	77.37
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 77.37 NIGHT LEQ 71.33

LDN 79.3

Roadway: Interstate 15
Segment: Indian Trail Road to Temescal Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6949.94	131.27	52.79	1730.83	32.69	13.15
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.66	12.42	8.47	23.63	6.39	2.43
Distance	-13.87	-13.87	-13.87	-13.87	-13.87	-13.87
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.43	61.55	50.05	49.39

ADT	123000.00
SPEED	70.00
DISTANCE	413.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: Indian Trail Road to Temescal Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6949.94	131.27	52.79	1730.83	32.69	13.15
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.66	12.42	8.47	23.63	6.39	2.43
Distance	-18.87	-18.87	-18.87	-18.87	-18.87	-18.87
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

ADT	123000.00
SPEED	70.00
DISTANCE	891.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: Indian Trail Road to Temescal Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	6949.94	131.27	52.79	1730.83	32.69	13.15
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	29.66	12.42	8.47	23.63	6.39	2.43
Distance	-23.87	-23.87	-23.87	-23.87	-23.87	-23.87
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

ADT	123000.00
SPEED	70.00
DISTANCE	1919.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lake Street
Segment: I-15 to Temescal Canyon Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	988.81	18.68	7.51	246.26	4.65	1.87
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	23.11	5.87	1.92	17.08	-0.16	-4.12
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.84	53.88	54.44	56.80	47.84	48.40

DAY LEQ 63.88 NIGHT LEQ 57.84

LDN 65.8

ADT	17500.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.81
DAY LEQ	63.88
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Lake Street
Segment: I-15 to Temescal Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	988.81	18.68	7.51	246.26	4.65	1.87
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	23.11	5.87	1.92	17.08	-0.16	-4.12
Distance	-0.39	-0.39	-0.39	-0.39	-0.39	-0.39
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.68	61.03	52.07	52.64

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	17500.00
SPEED	45.00
DISTANCE	52.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Lake Street
Segment: I-15 to Temescal Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	988.81	18.68	7.51	246.26	4.65	1.87
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	23.11	5.87	1.92	17.08	-0.16	-4.12
Distance	-5.38	-5.38	-5.38	-5.38	-5.38	-5.38
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	17500.00
SPEED	45.00
DISTANCE	112.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Lake Street
Segment: I-15 to Temescal Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	988.81	18.68	7.51	246.26	4.65	1.87
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	23.11	5.87	1.92	17.08	-0.16	-4.12
Distance	-10.38	-10.38	-10.38	-10.38	-10.38	-10.38
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	17500.00
SPEED	45.00
DISTANCE	242.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Lake Street
Segment: Temescal Canyon Road to Coal Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	16800.00
Vehicles per hour	949.26	17.93	7.21	236.41	4.47	1.80	SPEED	45.00
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	DISTANCE	100.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	22.94	5.70	1.74	16.90	-0.34	-4.30	Ldn	65.63
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62	DAY LEQ	63.70
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.66	53.70	54.26	56.62	47.66	48.23	GRADE dB	0.00

DAY LEQ 63.70 NIGHT LEQ 57.67

LDN 65.6

Roadway: Lake Street
Segment: Temescal Canyon Road to Coal Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	16800.00
Vehicles per hour	949.26	17.93	7.21	236.41	4.47	1.80	SPEED	45.00
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	DISTANCE	50.80
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	22.94	5.70	1.74	16.90	-0.34	-4.30	Ldn	70.04
Distance	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	DAY LEQ	68.12
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lake Street
Segment: Temescal Canyon Road to Coal Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	16800.00
Vehicles per hour	949.26	17.93	7.21	236.41	4.47	1.80	SPEED	45.00
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	DISTANCE	109.40
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	22.94	5.70	1.74	16.90	-0.34	-4.30	Ldn	65.05
Distance	-5.21	-5.21	-5.21	-5.21	-5.21	-5.21	DAY LEQ	63.12
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lake Street
Segment: Temescal Canyon Road to Coal Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	16800.00
Vehicles per hour	949.26	17.93	7.21	236.41	4.47	1.80	SPEED	45.00
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	DISTANCE	235.60
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	22.94	5.70	1.74	16.90	-0.34	-4.30	Ldn	60.05
Distance	-10.20	-10.20	-10.20	-10.20	-10.20	-10.20	DAY LEQ	58.12
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lake Street
Segment: Coal Road to Lakeshore Drive

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
INPUT PARAMETERS							ADT	18300.00
Vehicles per hour	1034.02	19.53	7.85	257.51	4.86	1.96	SPEED	45.00
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	DISTANCE	100.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	23.31	6.07	2.11	17.27	0.03	-3.92	Ldn	66.00
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62	DAY LEQ	64.08
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	63.03	54.07	54.63	56.99	48.03	48.60	GRADE dB	0.00

DAY LEQ 64.08 NIGHT LEQ 58.04

LDN 66.0

Roadway: Lake Street
Segment: Coal Road to Lakeshore Drive
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
INPUT PARAMETERS							ADT	18300.00
Vehicles per hour	1034.02	19.53	7.85	257.51	4.86	1.96	SPEED	45.00
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	DISTANCE	53.80
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	23.31	6.07	2.11	17.27	0.03	-3.92	Ldn	70.04
Distance	-0.58	-0.58	-0.58	-0.58	-0.58	-0.58	DAY LEQ	68.11
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lake Street
Segment: Coal Road to Lakeshore Drive
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
INPUT PARAMETERS							ADT	18300.00
Vehicles per hour	1034.02	19.53	7.85	257.51	4.86	1.96	SPEED	45.00
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	DISTANCE	115.80
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	23.31	6.07	2.11	17.27	0.03	-3.92	Ldn	65.05
Distance	-5.58	-5.58	-5.58	-5.58	-5.58	-5.58	DAY LEQ	63.12
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lake Street
Segment: Coal Road to Lakeshore Drive
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
INPUT PARAMETERS							ADT	18300.00
Vehicles per hour	1034.02	19.53	7.85	257.51	4.86	1.96	SPEED	45.00
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	DISTANCE	249.40
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	23.31	6.07	2.11	17.27	0.03	-3.92	Ldn	60.05
Distance	-10.57	-10.57	-10.57	-10.57	-10.57	-10.57	DAY LEQ	58.12
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lake Street
Segment: Lakeshore Drive to Broadway Avenue

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14700.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	830.60	15.69	6.31	206.86	3.91	1.57	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	63.78
ADJUSTMENTS							DAY LEQ	61.85
Flow	22.87	5.63	1.67	16.83	-0.41	-4.36		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	60.61	52.32	53.21	54.57	46.28	47.18	GRADE dB	0.00

DAY LEQ 61.85 NIGHT LEQ 55.81

LDN 63.8

Roadway: Lake Street
Segment: Lakeshore Drive to Broadway Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14700.00
							SPEED	40.00
-							DISTANCE	38.20
INPUT PARAMETERS								
Vehicles per hour	830.60	15.69	6.31	206.86	3.91	1.57	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	22.87	5.63	1.67	16.83	-0.41	-4.36		
Distance	1.65	1.65	1.65	1.65	1.65	1.65		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.88	58.59	59.48	60.84	52.55	53.44	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lake Street
Segment: Lakeshore Drive to Broadway Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14700.00
							SPEED	40.00
-							DISTANCE	82.30
INPUT PARAMETERS								
Vehicles per hour	830.60	15.69	6.31	206.86	3.91	1.57	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.12
Flow	22.87	5.63	1.67	16.83	-0.41	-4.36		
Distance	-3.35	-3.35	-3.35	-3.35	-3.35	-3.35		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.55	48.44	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lake Street
Segment: Lakeshore Drive to Broadway Avenue
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14700.00
							SPEED	40.00
-							DISTANCE	177.20
INPUT PARAMETERS								
Vehicles per hour	830.60	15.69	6.31	206.86	3.91	1.57	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	22.87	5.63	1.67	16.83	-0.41	-4.36		
Distance	-8.35	-8.35	-8.35	-8.35	-8.35	-8.35		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lake Street
Segment: Machado Street to Riverside Drive

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	372.92	7.04	2.83	92.87	1.75	0.71
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	18.88	1.64	-2.32	12.84	-4.40	-8.35
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	58.60	49.64	50.21	52.57	43.60	44.17

DAY LEQ 59.65 NIGHT LEQ 53.61

LDN 61.6

ADT	6600.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	61.57
DAY LEQ	59.65
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Lake Street
Segment: Machado Street to Riverside Drive
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	372.92	7.04	2.83	92.87	1.75	0.71
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	18.88	1.64	-2.32	12.84	-4.40	-8.35
Distance	3.84	3.84	3.84	3.84	3.84	3.84
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.06	58.10	58.66	61.02	52.06	52.63

DAY LEQ 68.10 NIGHT LEQ 62.07

LDN 70.0

ADT	6600.00
SPEED	45.00
DISTANCE	27.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.03
DAY LEQ	68.10
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Lake Street
Segment: Machado Street to Riverside Drive
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	372.92	7.04	2.83	92.87	1.75	0.71
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	18.88	1.64	-2.32	12.84	-4.40	-8.35
Distance	-1.15	-1.15	-1.15	-1.15	-1.15	-1.15
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.07	53.11	53.68	56.04	47.07	47.64

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	6600.00
SPEED	45.00
DISTANCE	58.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Lake Street
Segment: Machado Street to Riverside Drive
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	372.92	7.04	2.83	92.87	1.75	0.71
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	18.88	1.64	-2.32	12.84	-4.40	-8.35
Distance	-6.15	-6.15	-6.15	-6.15	-6.15	-6.15
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	6600.00
SPEED	45.00
DISTANCE	126.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Lakeshore Drive
Segment: Lake Street to Terra Cotta Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	13500.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	762.80	14.41	5.79	189.97	3.59	1.44	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	64.68
ADJUSTMENTS							DAY LEQ	62.75
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.71	52.75	53.31	55.67	46.71	47.28	GRADE dB	0.00

DAY LEQ 62.75 NIGHT LEQ 56.72

LDN 64.7

Roadway: Lakeshore Drive
Segment: Lake Street to Terra Cotta Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	13500.00
							SPEED	45.00
-							DISTANCE	43.90
INPUT PARAMETERS								
Vehicles per hour	762.80	14.41	5.79	189.97	3.59	1.44	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25		
Distance	0.74	0.74	0.74	0.74	0.74	0.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lakeshore Drive
Segment: Lake Street to Terra Cotta Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	13500.00
							SPEED	45.00
-							DISTANCE	94.60
INPUT PARAMETERS								
Vehicles per hour	762.80	14.41	5.79	189.97	3.59	1.44	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.12
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25		
Distance	-4.26	-4.26	-4.26	-4.26	-4.26	-4.26		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.67	56.03	47.07	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lakeshore Drive
Segment: Lake Street to Terra Cotta Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	13500.00
							SPEED	45.00
-							DISTANCE	203.70
INPUT PARAMETERS								
Vehicles per hour	762.80	14.41	5.79	189.97	3.59	1.44	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25		
Distance	-9.26	-9.26	-9.26	-9.26	-9.26	-9.26		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.11	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lake Street
Segment: Machado Street to Riverside Dr

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1079.22	20.38	8.20	268.77	5.08	2.04
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.00	6.77	2.81	17.97	0.73	-3.23
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.74	53.46	54.35	55.71	47.42	48.31

ADT	19100.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	64.91
DAY LEQ	62.98
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 62.98 NIGHT LEQ 56.95

LDN 64.9

Roadway: Lake Street
Segment: Machado Street to Riverside Dr
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1079.22	20.38	8.20	268.77	5.08	2.04
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.00	6.77	2.81	17.97	0.73	-3.23
Distance	0.51	0.51	0.51	0.51	0.51	0.51
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.87	58.59	59.48	60.84	52.55	53.44

ADT	19100.00
SPEED	40.00
DISTANCE	45.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lake Street
Segment: Machado Street to Riverside Dr
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1079.22	20.38	8.20	268.77	5.08	2.04
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.00	6.77	2.81	17.97	0.73	-3.23
Distance	-4.49	-4.49	-4.49	-4.49	-4.49	-4.49
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.55	48.44

ADT	19100.00
SPEED	40.00
DISTANCE	98.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lake Street
Segment: Machado Street to Riverside Dr
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1079.22	20.38	8.20	268.77	5.08	2.04
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.00	6.77	2.81	17.97	0.73	-3.23
Distance	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.49	50.84	42.56	43.45

ADT	19100.00
SPEED	40.00
DISTANCE	211.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lake Street
Segment: Riverside Drive to Chaney Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	19000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	64.89
ADJUSTMENTS							DAY LEQ	62.96
Flow	23.98	6.74	2.79	17.94	0.71	-3.25		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.72	53.44	54.33	55.68	47.40	48.29	GRADE dB	0.00

DAY LEQ 62.96 NIGHT LEQ 56.92

LDN 64.9

Roadway: Lake Street
Segment: Riverside Drive to Chaney Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	19000.00
							SPEED	40.00
-							DISTANCE	45.50
INPUT PARAMETERS								
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.02
ADJUSTMENTS							DAY LEQ	68.09
Flow	23.98	6.74	2.79	17.94	0.71	-3.25		
Distance	0.51	0.51	0.51	0.51	0.51	0.51		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.85	58.57	59.46	60.81	52.53	53.42	GRADE dB	0.00

DAY LEQ 68.09 NIGHT LEQ 62.05

LDN 70.0

Roadway: Lake Street
Segment: Riverside Drive to Chaney Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	19000.00
							SPEED	40.00
-							DISTANCE	98.00
INPUT PARAMETERS								
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.02
ADJUSTMENTS							DAY LEQ	63.09
Flow	23.98	6.74	2.79	17.94	0.71	-3.25		
Distance	-4.49	-4.49	-4.49	-4.49	-4.49	-4.49		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.85	53.57	54.46	55.82	47.53	48.42	GRADE dB	0.00

DAY LEQ 63.09 NIGHT LEQ 57.06

LDN 65.0

Roadway: Lake Street
Segment: Riverside Drive to Chaney Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	19000.00
							SPEED	40.00
-							DISTANCE	211.00
INPUT PARAMETERS								
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.03
ADJUSTMENTS							DAY LEQ	58.10
Flow	23.98	6.74	2.79	17.94	0.71	-3.25		
Distance	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.86	48.57	49.46	50.82	42.53	43.43	GRADE dB	0.00

DAY LEQ 58.10 NIGHT LEQ 52.06

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lake Street
Segment: Lakeshore Drive to Broadway Avenue

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14200.00
-							SPEED	40.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	802.35	15.15	6.09	199.82	3.77	1.52	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	63.63
ADJUSTMENTS							DAY LEQ	61.70
Flow	22.72	5.48	1.52	16.68	-0.56	-4.51		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	60.46	52.17	53.06	54.42	46.13	47.02	GRADE dB	0.00

DAY LEQ 61.70 NIGHT LEQ 55.66

LDN 63.6

Roadway: Lake Street
Segment: Lakeshore Drive to Broadway Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14200.00
-							SPEED	40.00
							DISTANCE	37.30
INPUT PARAMETERS								
Vehicles per hour	802.35	15.15	6.09	199.82	3.77	1.52	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	22.72	5.48	1.52	16.68	-0.56	-4.51		
Distance	1.80	1.80	1.80	1.80	1.80	1.80		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.88	58.60	59.49	60.84	52.56	53.45	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lake Street
Segment: Lakeshore Drive to Broadway Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14200.00
-							SPEED	40.00
							DISTANCE	80.40
INPUT PARAMETERS								
Vehicles per hour	802.35	15.15	6.09	199.82	3.77	1.52	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	22.72	5.48	1.52	16.68	-0.56	-4.51		
Distance	-3.20	-3.20	-3.20	-3.20	-3.20	-3.20		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lake Street
Segment: Avenue 6 to Diamond Drive
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14200.00
-							SPEED	40.00
							DISTANCE	173.20
INPUT PARAMETERS								
Vehicles per hour	802.35	15.15	6.09	199.82	3.77	1.52	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	22.72	5.48	1.52	16.68	-0.56	-4.51		
Distance	-8.20	-8.20	-8.20	-8.20	-8.20	-8.20		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.48	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lincoln Street
Segment: Robin Drive to Riverside Drive/SR-74

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	10500.00
							SPEED	35.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	593.29	11.21	4.51	147.75	2.79	1.12	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.91
ADJUSTMENTS							DAY LEQ	58.98
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.48	49.96	51.22	51.44	43.92	45.18	GRADE dB	0.00

DAY LEQ 58.98 NIGHT LEQ 52.94

LDN 60.9

Roadway: Lincoln Street
Segment: Robin Drive to Riverside Drive/SR-74
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	10500.00
							SPEED	35.00
-							DISTANCE	24.60
INPUT PARAMETERS								
Vehicles per hour	593.29	11.21	4.51	147.75	2.79	1.12	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25		
Distance	4.52	4.52	4.52	4.52	4.52	4.52		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.61	59.09	60.35	60.57	53.05	54.32	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lincoln Street
Segment: Robin Drive to Riverside Drive/SR-74
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	10500.00
							SPEED	35.00
-							DISTANCE	53.00
INPUT PARAMETERS								
Vehicles per hour	593.29	11.21	4.51	147.75	2.79	1.12	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.11
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25		
Distance	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.61	54.09	55.35	55.57	48.05	49.32	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lincoln Street
Segment: Robin Drive to Riverside Drive/SR-74
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	10500.00
							SPEED	35.00
-							DISTANCE	114.10
INPUT PARAMETERS								
Vehicles per hour	593.29	11.21	4.51	147.75	2.79	1.12	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25		
Distance	-5.48	-5.48	-5.48	-5.48	-5.48	-5.48		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.62	49.10	50.36	50.58	43.06	44.32	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Main Street
Segment: Flint Street to Pottery Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	13200.00
							SPEED	30.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	745.85	14.09	5.67	185.75	3.51	1.41	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	60.34
ADJUSTMENTS							DAY LEQ	58.41
Flow	23.65	6.41	2.46	17.61	0.37	-3.58		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.54	49.90	51.60	50.50	43.87	45.56	GRADE dB	0.00

DAY LEQ 58.41 NIGHT LEQ 52.37

LDN 60.3

Roadway: Main Street
Segment: Flint Street to Pottery Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	13200.00
							SPEED	30.00
-							DISTANCE	22.60
INPUT PARAMETERS								
Vehicles per hour	745.85	14.09	5.67	185.75	3.51	1.41	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	70.02
ADJUSTMENTS							DAY LEQ	68.10
Flow	23.65	6.41	2.46	17.61	0.37	-3.58		
Distance	5.07	5.07	5.07	5.07	5.07	5.07		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.23	59.59	61.28	60.19	53.56	55.25	GRADE dB	0.00

DAY LEQ 68.10 NIGHT LEQ 62.06

LDN 70.0

Roadway: Main Street
Segment: Flint Street to Pottery Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	13200.00
							SPEED	30.00
-							DISTANCE	48.60
INPUT PARAMETERS								
Vehicles per hour	745.85	14.09	5.67	185.75	3.51	1.41	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.11
Flow	23.65	6.41	2.46	17.61	0.37	-3.58		
Distance	0.08	0.08	0.08	0.08	0.08	0.08		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.24	54.61	56.30	55.20	48.57	50.26	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.07

LDN 65.0

Roadway: Main Street
Segment: Flint Street to Pottery Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	13200.00
							SPEED	30.00
-							DISTANCE	104.50
INPUT PARAMETERS								
Vehicles per hour	745.85	14.09	5.67	185.75	3.51	1.41	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	23.65	6.41	2.46	17.61	0.37	-3.58		
Distance	-4.91	-4.91	-4.91	-4.91	-4.91	-4.91		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.25	49.62	51.31	50.22	43.58	45.27	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Collier Avenue
Segment: Peck Street to Graham Street

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	389.87	7.36	2.96	97.10	1.83	0.74
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	20.83	3.59	-0.36	14.79	-2.44	-6.40
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	53.72	47.09	48.78	47.69	41.05	42.74

DAY LEQ 55.59 NIGHT LEQ 49.55

LDN 57.5

ADT	6900.00
SPEED	30.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	57.52
DAY LEQ	55.59
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Collier Avenue
Segment: Peck Street to Graham Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	389.87	7.36	2.96	97.10	1.83	0.74
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	20.83	3.59	-0.36	14.79	-2.44	-6.40
Distance	7.87	7.87	7.87	7.87	7.87	7.87
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.21	59.58	61.27	60.18	53.54	55.23

DAY LEQ 68.08 NIGHT LEQ 62.04

LDN 70.0

ADT	6900.00
SPEED	30.00
DISTANCE	14.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.01
DAY LEQ	68.08
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Collier Avenue
Segment: Peck Street to Graham Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	389.87	7.36	2.96	97.10	1.83	0.74
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	20.83	3.59	-0.36	14.79	-2.44	-6.40
Distance	2.90	2.90	2.90	2.90	2.90	2.90
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.25	54.61	56.30	55.21	48.58	50.27

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	6900.00
SPEED	30.00
DISTANCE	31.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Collier Avenue
Segment: Peck Street to Graham Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	389.87	7.36	2.96	97.10	1.83	0.74
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	20.83	3.59	-0.36	14.79	-2.44	-6.40
Distance	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.25	49.61	51.30	50.21	43.57	45.26

DAY LEQ 58.11 NIGHT LEQ 52.08

LDN 60.0

ADT	6900.00
SPEED	30.00
DISTANCE	67.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.04
DAY LEQ	58.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Collier Avenue
Segment: Graham Street to Limited Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7600.00
							SPEED	30.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	429.43	8.11	3.26	106.95	2.02	0.81	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	57.94
ADJUSTMENTS							DAY LEQ	56.01
Flow	21.25	4.01	0.06	15.21	-2.02	-5.98		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	54.14	47.51	49.20	48.11	41.47	43.16	GRADE dB	0.00

DAY LEQ 56.01 NIGHT LEQ 49.97

LDN 57.9

Roadway: Collier Avenue
Segment: Graham Street to Limited Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7600.00
							SPEED	30.00
-							DISTANCE	15.60
INPUT PARAMETERS								
Vehicles per hour	429.43	8.11	3.26	106.95	2.02	0.81	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	21.25	4.01	0.06	15.21	-2.02	-5.98		
Distance	7.48	7.48	7.48	7.48	7.48	7.48		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.25	59.61	61.30	60.21	53.57	55.26	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Collier Avenue
Segment: Graham Street to Limited Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7600.00
							SPEED	30.00
-							DISTANCE	33.60
INPUT PARAMETERS								
Vehicles per hour	429.43	8.11	3.26	106.95	2.02	0.81	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.12
Flow	21.25	4.01	0.06	15.21	-2.02	-5.98		
Distance	2.48	2.48	2.48	2.48	2.48	2.48		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.25	54.61	56.30	55.21	48.57	50.27	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Collier Avenue
Segment: Graham Street to Limited Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7600.00
							SPEED	30.00
-							DISTANCE	72.40
INPUT PARAMETERS								
Vehicles per hour	429.43	8.11	3.26	106.95	2.02	0.81	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	60.04
ADJUSTMENTS							DAY LEQ	58.11
Flow	21.25	4.01	0.06	15.21	-2.02	-5.98		
Distance	-2.52	-2.52	-2.52	-2.52	-2.52	-2.52		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.25	49.61	51.30	50.21	43.57	45.26	GRADE dB	0.00

DAY LEQ 58.11 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Malaga Road
Segment: Diamond Drive to Mission Trail

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	2700.00
							SPEED	35.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	152.56	2.88	1.16	37.99	0.72	0.29	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	55.01
ADJUSTMENTS							DAY LEQ	53.08
Flow	16.09	-1.15	-5.11	10.05	-7.19	-11.14		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	51.58	44.06	45.32	45.54	38.02	39.28	GRADE dB	0.00

DAY LEQ 53.08 NIGHT LEQ 47.04

LDN 55.0

Roadway: Malaga Road
Segment: Diamond Drive to Mission Trail
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	2700.00
							SPEED	35.00
							DISTANCE	10.00
INPUT PARAMETERS								
Vehicles per hour	152.56	2.88	1.16	37.99	0.72	0.29	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	70.01
ADJUSTMENTS							DAY LEQ	68.08
Flow	16.09	-1.15	-5.11	10.05	-7.19	-11.14		
Distance	10.38	10.38	10.38	10.38	10.38	10.38		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.58	59.06	60.32	60.54	53.02	54.28	GRADE dB	0.00

DAY LEQ 68.08 NIGHT LEQ 62.04

LDN 70.0

Roadway: Malaga Road
Segment: Diamond Drive to Mission Trail
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	2700.00
							SPEED	35.00
							DISTANCE	21.50
INPUT PARAMETERS								
Vehicles per hour	152.56	2.88	1.16	37.99	0.72	0.29	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.02
ADJUSTMENTS							DAY LEQ	63.09
Flow	16.09	-1.15	-5.11	10.05	-7.19	-11.14		
Distance	5.39	5.39	5.39	5.39	5.39	5.39		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.59	54.07	55.33	55.55	48.03	49.30	GRADE dB	0.00

DAY LEQ 63.09 NIGHT LEQ 57.06

LDN 65.0

Roadway: Malaga Road
Segment: Diamond Drive to Mission Trail
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	2700.00
							SPEED	35.00
							DISTANCE	46.20
INPUT PARAMETERS								
Vehicles per hour	152.56	2.88	1.16	37.99	0.72	0.29	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.04
ADJUSTMENTS							DAY LEQ	58.11
Flow	16.09	-1.15	-5.11	10.05	-7.19	-11.14		
Distance	0.41	0.41	0.41	0.41	0.41	0.41		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.61	49.09	50.35	50.57	43.05	44.31	GRADE dB	0.00

DAY LEQ 58.11 NIGHT LEQ 52.07

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Malaga Road
Segment: Mission Trail to Lakeview Terrace

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	3100.00
							SPEED	35.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	175.16	3.31	1.33	43.62	0.82	0.33	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	55.61
ADJUSTMENTS							DAY LEQ	53.68
Flow	16.69	-0.55	-4.51	10.65	-6.59	-10.54		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	52.18	44.66	45.92	46.14	38.62	39.88	GRADE dB	0.00

DAY LEQ 53.68 NIGHT LEQ 47.64

LDN 55.6

Roadway: Malaga Road
Segment: Mission Trail to Lakeview Terrace
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	3100.00
							SPEED	35.00
							DISTANCE	10.90
INPUT PARAMETERS								
Vehicles per hour	175.16	3.31	1.33	43.62	0.82	0.33	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	16.69	-0.55	-4.51	10.65	-6.59	-10.54		
Distance	9.82	9.82	9.82	9.82	9.82	9.82		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.62	59.10	60.36	60.58	53.06	54.32	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Malaga Road
Segment: Mission Trail to Lakeview Terrace
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	3100.00
							SPEED	35.00
							DISTANCE	23.50
INPUT PARAMETERS								
Vehicles per hour	175.16	3.31	1.33	43.62	0.82	0.33	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.11
Flow	16.69	-0.55	-4.51	10.65	-6.59	-10.54		
Distance	4.81	4.81	4.81	4.81	4.81	4.81		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.61	54.09	55.35	55.57	48.05	49.32	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

Roadway: Malaga Road
Segment: Mission Trail to Lakeview Terrace
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	3100.00
							SPEED	35.00
							DISTANCE	50.60
INPUT PARAMETERS								
Vehicles per hour	175.16	3.31	1.33	43.62	0.82	0.33	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	16.69	-0.55	-4.51	10.65	-6.59	-10.54		
Distance	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.61	49.09	50.36	50.58	43.06	44.32	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Mission Trail
Segment: Lakeshore Drive to Malaga Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	994.46	18.78	7.55	247.66	4.68	1.88
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.65	6.41	2.46	17.61	0.37	-3.58
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.39	53.10	53.99	55.35	47.07	47.96

ADT	17600.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	64.56
DAY LEQ	62.63
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 62.63 NIGHT LEQ 56.59

LDN 64.6

Roadway: Mission Trail
Segment: Lakeshore Drive to Malaga Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	994.46	18.78	7.55	247.66	4.68	1.88
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.65	6.41	2.46	17.61	0.37	-3.58
Distance	0.86	0.86	0.86	0.86	0.86	0.86
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.87	58.59	59.48	60.83	52.55	53.44

ADT	17600.00
SPEED	40.00
DISTANCE	43.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Mission Trail
Segment: Lakeshore Drive to Malaga Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	994.46	18.78	7.55	247.66	4.68	1.88
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.65	6.41	2.46	17.61	0.37	-3.58
Distance	-4.13	-4.13	-4.13	-4.13	-4.13	-4.13
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.55	48.44

ADT	17600.00
SPEED	40.00
DISTANCE	92.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Mission Trail
Segment: Lakeshore Drive to Malaga Road
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	994.46	18.78	7.55	247.66	4.68	1.88
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.65	6.41	2.46	17.61	0.37	-3.58
Distance	-9.13	-9.13	-9.13	-9.13	-9.13	-9.13
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.49	50.84	42.56	43.45

ADT	17600.00
SPEED	40.00
DISTANCE	199.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Mission Trail
Segment: Malaga Road to Olive Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	17900.00
							SPEED	50.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1011.41	19.10	7.68	251.88	4.76	1.91	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	67.07
ADJUSTMENTS							DAY LEQ	65.15
Flow	22.75	5.52	1.56	16.72	-0.52	-4.48		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	64.25	54.69	54.96	58.22	48.65	48.92	GRADE dB	0.00

DAY LEQ 65.15 NIGHT LEQ 59.11

LDN 67.1

Roadway: Mission Trail
Segment: Malaga Road to Olive Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	17900.00
							SPEED	50.00
-							DISTANCE	63.40
INPUT PARAMETERS								
Vehicles per hour	1011.41	19.10	7.68	251.88	4.76	1.91	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	22.75	5.52	1.56	16.72	-0.52	-4.48		
Distance	-1.65	-1.65	-1.65	-1.65	-1.65	-1.65		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.22	57.66	57.93	61.18	51.62	51.89	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Mission Trail
Segment: Malaga Road to Olive Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	17900.00
							SPEED	50.00
-							DISTANCE	136.50
INPUT PARAMETERS								
Vehicles per hour	1011.41	19.10	7.68	251.88	4.76	1.91	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	22.75	5.52	1.56	16.72	-0.52	-4.48		
Distance	-6.65	-6.65	-6.65	-6.65	-6.65	-6.65		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.23	52.66	52.93	56.19	46.62	46.90	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Mission Trail
Segment: Malaga Road to Olive Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	17900.00
							SPEED	50.00
-							DISTANCE	294.00
INPUT PARAMETERS								
Vehicles per hour	1011.41	19.10	7.68	251.88	4.76	1.91	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	22.75	5.52	1.56	16.72	-0.52	-4.48		
Distance	-11.65	-11.65	-11.65	-11.65	-11.65	-11.65		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Mission Trail
Segment: Olive Street to Lemon Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	17400.00
							SPEED	50.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	983.16	18.57	7.47	244.85	4.62	1.86	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	66.95
ADJUSTMENTS							DAY LEQ	65.02
Flow	22.63	5.39	1.44	16.59	-0.64	-4.60		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	64.13	54.57	54.84	58.09	48.53	48.80	GRADE dB	0.00

DAY LEQ 65.02 NIGHT LEQ 58.99

LDN 67.0

Roadway: Mission Trail
Segment: Olive Street to Lemon Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	17400.00
							SPEED	50.00
-							DISTANCE	62.20
INPUT PARAMETERS								
Vehicles per hour	983.16	18.57	7.47	244.85	4.62	1.86	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	22.63	5.39	1.44	16.59	-0.64	-4.60		
Distance	-1.53	-1.53	-1.53	-1.53	-1.53	-1.53		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.22	57.66	57.93	61.19	51.62	51.89	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Mission Trail
Segment: Olive Street to Lemon Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	17400.00
							SPEED	50.00
-							DISTANCE	133.90
INPUT PARAMETERS								
Vehicles per hour	983.16	18.57	7.47	244.85	4.62	1.86	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	22.63	5.39	1.44	16.59	-0.64	-4.60		
Distance	-6.52	-6.52	-6.52	-6.52	-6.52	-6.52		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.23	52.66	52.93	56.19	46.63	46.90	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Mission Trail
Segment: Olive Street to Lemon Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	17400.00
							SPEED	50.00
-							DISTANCE	288.50
INPUT PARAMETERS								
Vehicles per hour	983.16	18.57	7.47	244.85	4.62	1.86	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	22.63	5.39	1.44	16.59	-0.64	-4.60		
Distance	-11.52	-11.52	-11.52	-11.52	-11.52	-11.52		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Mission Trail
Segment: Lemon Street to Corydon Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15700.00
-							SPEED	50.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	887.11	16.76	6.74	220.93	4.17	1.68	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	66.50
ADJUSTMENTS							DAY LEQ	64.58
Flow	22.18	4.95	0.99	16.15	-1.09	-5.05		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	63.68	54.12	54.39	57.65	48.08	48.35	GRADE dB	0.00

DAY LEQ 64.58 NIGHT LEQ 58.54

LDN 66.5

Roadway: Mission Trail
Segment: Lemon Street to Corydon Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15700.00
-							SPEED	50.00
							DISTANCE	58.10
INPUT PARAMETERS								
Vehicles per hour	887.11	16.76	6.74	220.93	4.17	1.68	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	22.18	4.95	0.99	16.15	-1.09	-5.05		
Distance	-1.08	-1.08	-1.08	-1.08	-1.08	-1.08		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.22	57.66	57.93	61.18	51.62	51.89	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Mission Trail
Segment: Lemon Street to Corydon Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15700.00
-							SPEED	50.00
							DISTANCE	125.10
INPUT PARAMETERS								
Vehicles per hour	887.11	16.76	6.74	220.93	4.17	1.68	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	22.18	4.95	0.99	16.15	-1.09	-5.05		
Distance	-6.08	-6.08	-6.08	-6.08	-6.08	-6.08		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.22	52.66	52.93	56.19	46.62	46.89	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Mission Trail
Segment: Lemon Street to Corydon Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15700.00
-							SPEED	50.00
							DISTANCE	269.40
INPUT PARAMETERS								
Vehicles per hour	887.11	16.76	6.74	220.93	4.17	1.68	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	22.18	4.95	0.99	16.15	-1.09	-5.05		
Distance	-11.08	-11.08	-11.08	-11.08	-11.08	-11.08		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Mission Trail
Segment: Corydon Street to Bundy Canyon Road

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14900.00
							SPEED	50.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	841.90	15.90	6.40	209.67	3.96	1.59	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	66.28
ADJUSTMENTS							DAY LEQ	64.35
Flow	21.96	4.72	0.76	15.92	-1.32	-5.27		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	63.46	53.89	54.16	57.42	47.85	48.13	GRADE dB	0.00

DAY LEQ 64.35 NIGHT LEQ 58.31

LDN 66.3

Roadway: Mission Trail
Segment: Corydon Street to Bundy Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14900.00
							SPEED	50.00
-							DISTANCE	56.10
INPUT PARAMETERS								
Vehicles per hour	841.90	15.90	6.40	209.67	3.96	1.59	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	21.96	4.72	0.76	15.92	-1.32	-5.27		
Distance	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.22	57.66	57.93	61.18	51.62	51.89	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Mission Trail
Segment: Corydon Street to Bundy Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14900.00
							SPEED	50.00
-							DISTANCE	120.80
INPUT PARAMETERS								
Vehicles per hour	841.90	15.90	6.40	209.67	3.96	1.59	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	21.96	4.72	0.76	15.92	-1.32	-5.27		
Distance	-5.85	-5.85	-5.85	-5.85	-5.85	-5.85		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.23	52.66	52.93	56.19	46.62	46.89	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Mission Trail
Segment: Corydon Street to Bundy Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14900.00
							SPEED	50.00
-							DISTANCE	260.20
INPUT PARAMETERS								
Vehicles per hour	841.90	15.90	6.40	209.67	3.96	1.59	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	21.96	4.72	0.76	15.92	-1.32	-5.27		
Distance	-10.85	-10.85	-10.85	-10.85	-10.85	-10.85		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Mission Trail
Segment: Bundy Canyon Road to Canyon Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	836.25	15.79	6.35	208.26	3.93	1.58
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	21.93	4.69	0.73	15.89	-1.35	-5.30
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	63.43	53.86	54.13	57.39	47.83	48.10

ADT	14800.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	66.25
DAY LEQ	64.32
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 64.32 NIGHT LEQ 58.28

LDN 66.2

Roadway: Mission Trail
Segment: Bundy Canyon Road to Canyon Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	836.25	15.79	6.35	208.26	3.93	1.58
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	21.93	4.69	0.73	15.89	-1.35	-5.30
Distance	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.23	57.66	57.93	61.19	51.63	51.90

ADT	14800.00
SPEED	50.00
DISTANCE	55.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Mission Trail
Segment: Bundy Canyon Road to Canyon Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	836.25	15.79	6.35	208.26	3.93	1.58
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	21.93	4.69	0.73	15.89	-1.35	-5.30
Distance	-5.82	-5.82	-5.82	-5.82	-5.82	-5.82
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.63	46.90

ADT	14800.00
SPEED	50.00
DISTANCE	120.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Mission Trail
Segment: Bundy Canyon Road to Canyon Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	836.25	15.79	6.35	208.26	3.93	1.58
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	21.93	4.69	0.73	15.89	-1.35	-5.30
Distance	-10.82	-10.82	-10.82	-10.82	-10.82	-10.82
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

ADT	14800.00
SPEED	50.00
DISTANCE	259.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Nichols Road
Segment: Collier Avenue to Interstate 15

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
-						
INPUT PARAMETERS						
Vehicles per hour	536.78	10.14	4.08	133.68	2.52	1.02
Speed in MPH	20.00	20.00	20.00	20.00	20.00	20.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	55.68	68.61	75.38	55.68	68.61	75.38
ADJUSTMENTS						
Flow	23.98	6.74	2.79	17.94	0.71	-3.25
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	50.04	45.73	48.55	44.00	39.69	42.51

DAY LEQ	53.22
NIGHT LEQ	47.18
LDN	55.1

ADT	9500.00
SPEED	20.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	55.15
DAY LEQ	53.22
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Nichols Road
Segment: Collier Avenue to Interstate 15
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
-						
INPUT PARAMETERS						
Vehicles per hour	536.78	10.14	4.08	133.68	2.52	1.02
Speed in MPH	20.00	20.00	20.00	20.00	20.00	20.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	55.68	68.61	75.38	55.68	68.61	75.38
ADJUSTMENTS						
Flow	23.98	6.74	2.79	17.94	0.71	-3.25
Distance	10.25	10.25	10.25	10.25	10.25	10.25
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	64.91	60.60	63.42	58.88	54.56	57.38

DAY LEQ	68.09
NIGHT LEQ	62.05
LDN	70.0

ADT	9500.00
SPEED	20.00
DISTANCE	10.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.02
DAY LEQ	68.09
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Nichols Road
Segment: Collier Avenue to Interstate 15
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
-						
INPUT PARAMETERS						
Vehicles per hour	536.78	10.14	4.08	133.68	2.52	1.02
Speed in MPH	20.00	20.00	20.00	20.00	20.00	20.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	55.68	68.61	75.38	55.68	68.61	75.38
ADJUSTMENTS						
Flow	23.98	6.74	2.79	17.94	0.71	-3.25
Distance	5.27	5.27	5.27	5.27	5.27	5.27
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	59.93	55.62	58.44	53.90	49.59	52.40

DAY LEQ	63.11
NIGHT LEQ	57.08
LDN	65.0

ADT	9500.00
SPEED	20.00
DISTANCE	21.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Nichols Road
Segment: Collier Avenue to Interstate 15
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
-						
INPUT PARAMETERS						
Vehicles per hour	536.78	10.14	4.08	133.68	2.52	1.02
Speed in MPH	20.00	20.00	20.00	20.00	20.00	20.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	55.68	68.61	75.38	55.68	68.61	75.38
ADJUSTMENTS						
Flow	23.98	6.74	2.79	17.94	0.71	-3.25
Distance	0.27	0.27	0.27	0.27	0.27	0.27
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	54.93	50.62	53.44	48.89	44.58	47.40

DAY LEQ	58.11
NIGHT LEQ	52.07
LDN	60.0

ADT	9500.00
SPEED	20.00
DISTANCE	47.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.04
DAY LEQ	58.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Nichols Road
Segment: Interstate 15 to El Toro Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	8600.00
Vehicles per hour	485.93	9.18	3.69	121.02	2.29	0.92	SPEED	30.00
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	DISTANCE	100.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
							% HT	0.74
							LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	58.48
ADJUSTMENTS							DAY LEQ	56.55
Flow	21.79	4.55	0.59	15.75	-1.49	-5.44		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	54.68	48.04	49.73	48.64	42.01	43.70	GRADE dB	0.00

DAY LEQ 56.55 NIGHT LEQ 50.51

LDN 58.5

Roadway: Nichols Road
Segment: Interstate 15 to El Toro Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	8600.00
Vehicles per hour	485.93	9.18	3.69	121.02	2.29	0.92	SPEED	30.00
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	DISTANCE	17.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
							% HT	0.74
							LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	70.02
ADJUSTMENTS							DAY LEQ	68.09
Flow	21.79	4.55	0.59	15.75	-1.49	-5.44		
Distance	6.92	6.92	6.92	6.92	6.92	6.92		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.22	59.59	61.28	60.19	53.55	55.24	GRADE dB	0.00

DAY LEQ 68.09 NIGHT LEQ 62.05

LDN 70.0

Roadway: Nichols Road
Segment: Interstate 15 to El Toro Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	8600.00
Vehicles per hour	485.93	9.18	3.69	121.02	2.29	0.92	SPEED	30.00
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	DISTANCE	36.50
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
							% HT	0.74
							LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.11
Flow	21.79	4.55	0.59	15.75	-1.49	-5.44		
Distance	1.95	1.95	1.95	1.95	1.95	1.95		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.25	54.61	56.30	55.21	48.57	50.26	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

Roadway: Nichols Road
Segment: Interstate 15 to El Toro Road
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	8600.00
Vehicles per hour	485.93	9.18	3.69	121.02	2.29	0.92	SPEED	30.00
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	DISTANCE	78.60
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
							% HT	0.74
							LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	60.04
ADJUSTMENTS							DAY LEQ	58.12
Flow	21.79	4.55	0.59	15.75	-1.49	-5.44		
Distance	-3.05	-3.05	-3.05	-3.05	-3.05	-3.05		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.25	49.61	51.30	50.21	43.58	45.27	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Railroad Canyon Road
Segment: Skylink Drive to Canyon Hills Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	31200.00
							SPEED	50.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1762.91	33.30	13.39	439.04	8.29	3.33	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	69.49
ADJUSTMENTS							DAY LEQ	67.56
Flow	25.17	7.93	3.97	19.13	1.89	-2.06		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.67	57.10	57.37	60.63	51.06	51.34	GRADE dB	0.00

DAY LEQ 67.56 NIGHT LEQ 61.52

LDN 69.5

Roadway: Railroad Canyon Road
Segment: Skylink Drive to Canyon Hills Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	31200.00
							SPEED	50.00
							DISTANCE	91.80
INPUT PARAMETERS								
Vehicles per hour	1762.91	33.30	13.39	439.04	8.29	3.33	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	25.17	7.93	3.97	19.13	1.89	-2.06		
Distance	-4.06	-4.06	-4.06	-4.06	-4.06	-4.06		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.22	57.66	57.93	61.19	51.62	51.89	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Railroad Canyon Road
Segment: Skylink Drive to Canyon Hills Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	31200.00
							SPEED	50.00
							DISTANCE	197.70
INPUT PARAMETERS								
Vehicles per hour	1762.91	33.30	13.39	439.04	8.29	3.33	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.17	7.93	3.97	19.13	1.89	-2.06		
Distance	-9.06	-9.06	-9.06	-9.06	-9.06	-9.06		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.23	52.66	52.93	56.19	46.62	46.89	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Railroad Canyon Road
Segment: Skylink Drive to Canyon Hills Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	31200.00
							SPEED	50.00
							DISTANCE	425.80
INPUT PARAMETERS								
Vehicles per hour	1762.91	33.30	13.39	439.04	8.29	3.33	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.17	7.93	3.97	19.13	1.89	-2.06		
Distance	-14.06	-14.06	-14.06	-14.06	-14.06	-14.06		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Railroad Canyon Road
Segment: Canyon Hills Road to Summerhill Drive/Grape

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1904.17	35.96	14.46	474.22	8.96	3.60
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	25.50	8.26	4.31	19.46	2.23	-1.73
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.00	57.44	57.71	60.96	51.40	51.67

ADT	33700.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	69.82
DAY LEQ	67.89
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 67.89 NIGHT LEQ 61.86

LDN 69.8

Roadway: Railroad Canyon Road
Segment: Canyon Hills Road to Summerhill Drive/Grape
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1904.17	35.96	14.46	474.22	8.96	3.60
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	25.50	8.26	4.31	19.46	2.23	-1.73
Distance	-4.40	-4.40	-4.40	-4.40	-4.40	-4.40
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.23	57.66	57.93	61.19	51.62	51.90

ADT	33700.00
SPEED	50.00
DISTANCE	96.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Railroad Canyon Road
Segment: Canyon Hills Road to Summerhill Drive/Grape
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1904.17	35.96	14.46	474.22	8.96	3.60
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	25.50	8.26	4.31	19.46	2.23	-1.73
Distance	-9.39	-9.39	-9.39	-9.39	-9.39	-9.39
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.62	46.90

ADT	33700.00
SPEED	50.00
DISTANCE	208.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Railroad Canyon Road
Segment: Canyon Hills Road to Summerhill Drive/Grape
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1904.17	35.96	14.46	474.22	8.96	3.60
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	25.50	8.26	4.31	19.46	2.23	-1.73
Distance	-14.39	-14.39	-14.39	-14.39	-14.39	-14.39
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

ADT	33700.00
SPEED	50.00
DISTANCE	448.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Railroad Canyon Road
Segment: Summerhill Drive/Grape to Interstate 15

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	31500.00
							SPEED	30.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1779.86	33.62	13.52	443.26	8.37	3.37	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	64.11
ADJUSTMENTS							DAY LEQ	62.19
Flow	27.43	10.19	6.23	21.39	4.15	0.20		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	60.32	53.68	55.37	54.28	47.65	49.34	GRADE dB	0.00

DAY LEQ 62.19 NIGHT LEQ 56.15

LDN 64.1

Roadway: Railroad Canyon Road
Segment: Summerhill Drive/Grape to Interstate 15
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	31500.00
							SPEED	30.00
-							DISTANCE	40.30
INPUT PARAMETERS								
Vehicles per hour	1779.86	33.62	13.52	443.26	8.37	3.37	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	70.03
ADJUSTMENTS							DAY LEQ	68.11
Flow	27.43	10.19	6.23	21.39	4.15	0.20		
Distance	1.30	1.30	1.30	1.30	1.30	1.30		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.24	59.60	61.29	60.20	53.57	55.26	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Railroad Canyon Road
Segment: Summerhill Drive/Grape to Interstate 15
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	31500.00
							SPEED	30.00
-							DISTANCE	86.70
INPUT PARAMETERS								
Vehicles per hour	1779.86	33.62	13.52	443.26	8.37	3.37	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.12
Flow	27.43	10.19	6.23	21.39	4.15	0.20		
Distance	-3.69	-3.69	-3.69	-3.69	-3.69	-3.69		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.25	54.61	56.30	55.21	48.57	50.27	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Railroad Canyon Road
Segment: Summerhill Drive/Grape to Interstate 15
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	31500.00
							SPEED	30.00
-							DISTANCE	186.70
INPUT PARAMETERS								
Vehicles per hour	1779.86	33.62	13.52	443.26	8.37	3.37	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	27.43	10.19	6.23	21.39	4.15	0.20		
Distance	-8.69	-8.69	-8.69	-8.69	-8.69	-8.69		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.25	49.62	51.31	50.21	43.58	45.27	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Riverside Drive/SR-74
Segment: Collier Avenue to Baker Street

		DAYTIME			NIGHTTIME			
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	67.36
ADJUSTMENTS							DAY LEQ	65.43
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	64.39	55.43	55.99	58.35	49.39	49.95	GRADE dB	0.00

DAY LEQ 65.43 NIGHT LEQ 59.39

LDN 67.4

Roadway: Riverside Drive/SR-74
Segment: Collier Avenue to Baker Street
Calculation for Distance to 70 Ldn Noise Contour

		DAYTIME			NIGHTTIME			
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	66.20
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Riverside Drive/SR-74
Segment: Collier Avenue to Baker Street
Calculation for Distance to 65 Ldn Noise Contour

		DAYTIME			NIGHTTIME			
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	142.60
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-6.93	-6.93	-6.93	-6.93	-6.93	-6.93		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Riverside Drive/SR-74
Segment: Collier Avenue to Baker Street
Calculation for Distance to 60 Ldn Noise Contour

		DAYTIME			NIGHTTIME			
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	307.10
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-11.93	-11.93	-11.93	-11.93	-11.93	-11.93		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Riverside Drive/SR-74
Segment: Lakeview Avenue to Lakeshore Drive

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	24700.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1395.64	26.36	10.60	347.57	6.56	2.64	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	66.03
ADJUSTMENTS							DAY LEQ	64.10
Flow	25.12	7.88	3.93	19.08	1.85	-2.11		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.86	54.58	55.47	56.82	48.54	49.43	GRADE dB	0.00

DAY LEQ 64.10 NIGHT LEQ 58.06

LDN 66.0

Roadway: Riverside Drive/SR-74
Segment: Lakeview Avenue to Lakeshore Drive
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	24700.00
							SPEED	40.00
-							DISTANCE	54.00
INPUT PARAMETERS								
Vehicles per hour	1395.64	26.36	10.60	347.57	6.56	2.64	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	25.12	7.88	3.93	19.08	1.85	-2.11		
Distance	-0.61	-0.61	-0.61	-0.61	-0.61	-0.61		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.87	58.59	59.48	60.84	52.55	53.44	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Riverside Drive/SR-74
Segment: Lakeview Avenue to Lakeshore Drive
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	24700.00
							SPEED	40.00
-							DISTANCE	116.30
INPUT PARAMETERS								
Vehicles per hour	1395.64	26.36	10.60	347.57	6.56	2.64	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.12	7.88	3.93	19.08	1.85	-2.11		
Distance	-5.60	-5.60	-5.60	-5.60	-5.60	-5.60		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.55	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Riverside Drive/SR-74
Segment: Lakeview Avenue to Lakeshore Drive
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	24700.00
							SPEED	40.00
-							DISTANCE	250.40
INPUT PARAMETERS								
Vehicles per hour	1395.64	26.36	10.60	347.57	6.56	2.64	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.12	7.88	3.93	19.08	1.85	-2.11		
Distance	-10.60	-10.60	-10.60	-10.60	-10.60	-10.60		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.60	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Riverside Drive/SR-74
Segment: Lakeshore Drive to Lehr Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	29100.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1644.25	31.06	12.49	409.49	7.73	3.11	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	66.74
ADJUSTMENTS							DAY LEQ	64.81
Flow	25.83	8.59	4.64	19.80	2.56	-1.40		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	63.57	55.29	56.18	57.54	49.25	50.14	GRADE dB	0.00

DAY LEQ 64.81 NIGHT LEQ 58.78

LDN 66.7

Roadway: Riverside Drive/SR-74
Segment: Lakeshore Drive to Lehr Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	29100.00
							SPEED	40.00
-							DISTANCE	60.20
INPUT PARAMETERS								
Vehicles per hour	1644.25	31.06	12.49	409.49	7.73	3.11	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	25.83	8.59	4.64	19.80	2.56	-1.40		
Distance	-1.31	-1.31	-1.31	-1.31	-1.31	-1.31		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.88	58.59	59.48	60.84	52.56	53.45	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Riverside Drive/SR-74
Segment: Lakeshore Drive to Lehr Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	29100.00
							SPEED	40.00
-							DISTANCE	129.70
INPUT PARAMETERS								
Vehicles per hour	1644.25	31.06	12.49	409.49	7.73	3.11	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.83	8.59	4.64	19.80	2.56	-1.40		
Distance	-6.31	-6.31	-6.31	-6.31	-6.31	-6.31		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Riverside Drive/SR-74
Segment: Lakeshore Drive to Lehr Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	29100.00
							SPEED	40.00
-							DISTANCE	279.40
INPUT PARAMETERS								
Vehicles per hour	1644.25	31.06	12.49	409.49	7.73	3.11	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.83	8.59	4.64	19.80	2.56	-1.40		
Distance	-11.31	-11.31	-11.31	-11.31	-11.31	-11.31		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.48	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Riverside Drive/SR-74
Segment: Joy Street to Lincoln Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25300.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1429.54	27.00	10.86	356.02	6.72	2.70	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	66.13
ADJUSTMENTS							DAY LEQ	64.21
Flow	25.23	7.99	4.03	19.19	1.95	-2.01		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.96	54.68	55.57	56.93	48.64	49.53	GRADE dB	0.00

DAY LEQ 64.21 NIGHT LEQ 58.17

LDN 66.1

Roadway: Riverside Drive/SR-74
Segment: Joy Street to Lincoln Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25300.00
							SPEED	40.00
-							DISTANCE	54.90
INPUT PARAMETERS								
Vehicles per hour	1429.54	27.00	10.86	356.02	6.72	2.70	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	25.23	7.99	4.03	19.19	1.95	-2.01		
Distance	-0.71	-0.71	-0.71	-0.71	-0.71	-0.71		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.87	58.59	59.48	60.83	52.55	53.44	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Riverside Drive/SR-74
Segment: Joy Street to Lincoln Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25300.00
							SPEED	40.00
-							DISTANCE	118.10
INPUT PARAMETERS								
Vehicles per hour	1429.54	27.00	10.86	356.02	6.72	2.70	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.23	7.99	4.03	19.19	1.95	-2.01		
Distance	-5.70	-5.70	-5.70	-5.70	-5.70	-5.70		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.60	54.49	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Riverside Drive/SR-74
Segment: Joy Street to Lincoln Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25300.00
							SPEED	40.00
-							DISTANCE	254.50
INPUT PARAMETERS								
Vehicles per hour	1429.54	27.00	10.86	356.02	6.72	2.70	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.23	7.99	4.03	19.19	1.95	-2.01		
Distance	-10.71	-10.71	-10.71	-10.71	-10.71	-10.71		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Riverside Drive/SR-74
Segment: Lincoln Street to Lake Crest Avenue

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	22000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.53
ADJUSTMENTS							DAY LEQ	63.60
Flow	24.62	7.38	3.42	18.58	1.34	-2.61		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.36	54.07	54.96	56.32	48.04	48.93	GRADE dB	0.00

DAY LEQ 63.60 NIGHT LEQ 57.56

LDN 65.5

Roadway: Riverside Drive/SR-74
Segment: Lincoln Street to Lake Crest Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	22000.00
							SPEED	40.00
-							DISTANCE	50.00
INPUT PARAMETERS								
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	24.62	7.38	3.42	18.58	1.34	-2.61		
Distance	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.87	58.59	59.48	60.84	52.55	53.44	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Riverside Drive/SR-74
Segment: Lincoln Street to Lake Crest Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	22000.00
							SPEED	40.00
-							DISTANCE	107.60
INPUT PARAMETERS								
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	24.62	7.38	3.42	18.58	1.34	-2.61		
Distance	-5.10	-5.10	-5.10	-5.10	-5.10	-5.10		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.60	54.49	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Riverside Drive/SR-74
Segment: Lincoln Street to Lake Crest Avenue
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	22000.00
							SPEED	40.00
-							DISTANCE	231.80
INPUT PARAMETERS								
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	24.62	7.38	3.42	18.58	1.34	-2.61		
Distance	-10.10	-10.10	-10.10	-10.10	-10.10	-10.10		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.60	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Riverside Drive/SR-74
Segment: Eisenhour Drive to Grand Avenue

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1096.17	20.70	8.33	272.99	5.16	2.07
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.07	6.83	2.88	18.04	0.80	-3.16
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.81	53.53	54.42	55.77	47.49	48.38

ADT	19400.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	64.98
DAY LEQ	63.05
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.05 NIGHT LEQ 57.01

LDN 65.0

Roadway: Riverside Drive/SR-74
Segment: Eisenhour Drive to Grand Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1096.17	20.70	8.33	272.99	5.16	2.07
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.07	6.83	2.88	18.04	0.80	-3.16
Distance	0.44	0.44	0.44	0.44	0.44	0.44
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.87	58.58	59.48	60.83	52.55	53.44

ADT	19400.00
SPEED	40.00
DISTANCE	46.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Riverside Drive/SR-74
Segment: Eisenhour Drive to Grand Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1096.17	20.70	8.33	272.99	5.16	2.07
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.07	6.83	2.88	18.04	0.80	-3.16
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.81	53.53	54.42	55.77	47.49	48.38

ADT	19400.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	64.98
DAY LEQ	63.05
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.05 NIGHT LEQ 57.01

LDN 65.0

Roadway: Riverside Drive/SR-74
Segment: Eisenhour Drive to Grand Avenue
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1096.17	20.70	8.33	272.99	5.16	2.07
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.07	6.83	2.88	18.04	0.80	-3.16
Distance	-9.55	-9.55	-9.55	-9.55	-9.55	-9.55
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.49	50.84	42.56	43.45

ADT	19400.00
SPEED	40.00
DISTANCE	213.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: SR-74/Ortega Highway
Segment: Mazie Avenue to Greenwald Avenue

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	18300.00
							SPEED	50.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1034.02	19.53	7.85	257.51	4.86	1.96	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	67.17
ADJUSTMENTS							DAY LEQ	65.24
Flow	22.85	5.61	1.66	16.81	-0.43	-4.38		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	64.35	54.78	55.06	58.31	48.75	49.02	GRADE dB	0.00

DAY LEQ 65.24 NIGHT LEQ 59.20

LDN 67.2

Roadway: SR-74/Ortega Highway
Segment: Mazie Avenue to Greenwald Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	18300.00
							SPEED	50.00
-							DISTANCE	64.30
INPUT PARAMETERS								
Vehicles per hour	1034.02	19.53	7.85	257.51	4.86	1.96	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	22.85	5.61	1.66	16.81	-0.43	-4.38		
Distance	-1.74	-1.74	-1.74	-1.74	-1.74	-1.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.23	57.66	57.93	61.19	51.62	51.89	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: SR-74/Ortega Highway
Segment: Mazie Avenue to Greenwald Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	18300.00
							SPEED	50.00
-							DISTANCE	138.50
INPUT PARAMETERS								
Vehicles per hour	1034.02	19.53	7.85	257.51	4.86	1.96	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	22.85	5.61	1.66	16.81	-0.43	-4.38		
Distance	-6.74	-6.74	-6.74	-6.74	-6.74	-6.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.23	52.66	52.93	56.19	46.63	46.90	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: SR-74/Ortega Highway
Segment: Mazie Avenue to Greenwald Avenue
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	18300.00
							SPEED	55.00
-							DISTANCE	298.40
INPUT PARAMETERS								
Vehicles per hour	1034.02	19.53	7.85	257.51	4.86	1.96	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	22.85	5.61	1.66	16.81	-0.43	-4.38		
Distance	-11.74	-11.74	-11.74	-11.74	-11.74	-11.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: SR-74/Ortega Highway
Segment: Greenwald Avenue to Riverside Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1101.82	20.81	8.37	274.40	5.18	2.08
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.13	5.89	1.93	17.09	-0.15	-4.11
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	64.63	55.06	55.33	58.59	49.02	49.29

DAY LEQ 65.52 NIGHT LEQ 59.48

LDN 67.4

ADT	19500.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	67.45
DAY LEQ	65.52
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: SR-74/Ortega Highway
Segment: Greenwald Avenue to Riverside Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1101.82	20.81	8.37	274.40	5.18	2.08
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.13	5.89	1.93	17.09	-0.15	-4.11
Distance	-2.02	-2.02	-2.02	-2.02	-2.02	-2.02
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.22	57.66	57.93	61.19	51.62	51.89

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	19500.00
SPEED	50.00
DISTANCE	67.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: SR-74/Ortega Highway
Segment: Greenwald Avenue to Riverside Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1101.82	20.81	8.37	274.40	5.18	2.08
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.13	5.89	1.93	17.09	-0.15	-4.11
Distance	-7.02	-7.02	-7.02	-7.02	-7.02	-7.02
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.63	46.90

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	19500.00
SPEED	50.00
DISTANCE	144.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: SR-74/Ortega Highway
Segment: Greenwald Avenue to Riverside Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1101.82	20.81	8.37	274.40	5.18	2.08
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.13	5.89	1.93	17.09	-0.15	-4.11
Distance	-12.02	-12.02	-12.02	-12.02	-12.02	-12.02
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	19500.00
SPEED	50.00
DISTANCE	311.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: SR-74/Ortega Highway
Segment: Riverside Street to Ramsgate Drive

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1180.93	22.30	8.97	294.10	5.55	2.23
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.43	6.19	2.23	17.39	0.15	-3.80
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	64.93	55.36	55.63	58.89	49.32	49.59

DAY LEQ 65.82 NIGHT LEQ 59.78

LDN 67.7

ADT	20900.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	67.75
DAY LEQ	65.82
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: SR-74/Ortega Highway
Segment: Riverside Street to Ramsgate Drive
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1180.93	22.30	8.97	294.10	5.55	2.23
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.43	6.19	2.23	17.39	0.15	-3.80
Distance	-2.32	-2.32	-2.32	-2.32	-2.32	-2.32
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.22	57.66	57.93	61.18	51.62	51.89

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

ADT	20900.00
SPEED	50.00
DISTANCE	70.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: SR-74/Ortega Highway
Segment: Riverside Street to Ramsgate Drive
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1180.93	22.30	8.97	294.10	5.55	2.23
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.43	6.19	2.23	17.39	0.15	-3.80
Distance	-7.32	-7.32	-7.32	-7.32	-7.32	-7.32
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.63	46.90

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	20900.00
SPEED	50.00
DISTANCE	151.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: SR-74/Ortega Highway
Segment: Riverside Street to Ramsgate Drive
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1180.93	22.30	8.97	294.10	5.55	2.23
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.43	6.19	2.23	17.39	0.15	-3.80
Distance	-12.32	-12.32	-12.32	-12.32	-12.32	-12.32
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	20900.00
SPEED	50.00
DISTANCE	326.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: SR-74/Ortega Highway
Segment: Ramsgate Drive to Conrad Avenue

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	21200.00
							SPEED	50.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1197.88	22.62	9.10	298.32	5.63	2.27	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	67.81
ADJUSTMENTS							DAY LEQ	65.88
Flow	23.49	6.25	2.29	17.45	0.21	-3.74		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	64.99	55.42	55.69	58.95	49.39	49.66	GRADE dB	0.00

DAY LEQ 65.88 NIGHT LEQ 59.84

LDN 67.8

Roadway: SR-74/Ortega Highway
Segment: Ramsgate Drive to Conrad Avenue
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	21200.00
							SPEED	50.00
							DISTANCE	70.90
INPUT PARAMETERS								
Vehicles per hour	1197.88	22.62	9.10	298.32	5.63	2.27	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	23.49	6.25	2.29	17.45	0.21	-3.74		
Distance	-2.38	-2.38	-2.38	-2.38	-2.38	-2.38		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.23	57.66	57.93	61.19	51.63	51.90	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: SR-74/Ortega Highway
Segment: Ramsgate Drive to Conrad Avenue
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	21200.00
							SPEED	50.00
							DISTANCE	152.80
INPUT PARAMETERS								
Vehicles per hour	1197.88	22.62	9.10	298.32	5.63	2.27	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	23.49	6.25	2.29	17.45	0.21	-3.74		
Distance	-7.38	-7.38	-7.38	-7.38	-7.38	-7.38		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.23	52.66	52.93	56.19	46.62	46.89	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: SR-74/Ortega Highway
Segment: Ramsgate Drive to Conrad Avenue
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	21200.00
							SPEED	50.00
							DISTANCE	329.10
INPUT PARAMETERS								
Vehicles per hour	1197.88	22.62	9.10	298.32	5.63	2.27	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	23.49	6.25	2.29	17.45	0.21	-3.74		
Distance	-12.38	-12.38	-12.38	-12.38	-12.38	-12.38		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: SR-74/Ortega Highway
Segment: Conard Avenue to Cambern Avenue

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	22400.00
							SPEED	45.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1265.68	23.91	9.61	315.21	5.95	2.39	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	66.88
ADJUSTMENTS							DAY LEQ	64.95
Flow	24.19	6.95	2.99	18.15	0.91	-3.05		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	63.91	54.95	55.51	57.87	48.91	49.47	GRADE dB	0.00

DAY LEQ 64.95 NIGHT LEQ 58.92

LDN 66.9

Roadway: SR-74/Ortega Highway
Segment: Conard Avenue to Cambern Avenue
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	22400.00
							SPEED	45.00
							DISTANCE	61.50
INPUT PARAMETERS								
Vehicles per hour	1265.68	23.91	9.61	315.21	5.95	2.39	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	24.19	6.95	2.99	18.15	0.91	-3.05		
Distance	-1.45	-1.45	-1.45	-1.45	-1.45	-1.45		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.08	58.12	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: SR-74/Ortega Highway
Segment: Conard Avenue to Cambern Avenue
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	22400.00
							SPEED	45.00
							DISTANCE	132.50
INPUT PARAMETERS								
Vehicles per hour	1265.68	23.91	9.61	315.21	5.95	2.39	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	24.19	6.95	2.99	18.15	0.91	-3.05		
Distance	-6.45	-6.45	-6.45	-6.45	-6.45	-6.45		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: SR-74/Ortega Highway
Segment: Conard Avenue to Cambern Avenue
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	22400.00
							SPEED	45.00
							DISTANCE	285.40
INPUT PARAMETERS								
Vehicles per hour	1265.68	23.91	9.61	315.21	5.95	2.39	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	24.19	6.95	2.99	18.15	0.91	-3.05		
Distance	-11.45	-11.45	-11.45	-11.45	-11.45	-11.45		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: SR-74/Ortega Highway
Segment: Cambern Avenue to Interstate 15

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	32200.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1819.42	34.36	13.82	453.11	8.56	3.44	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	68.46
ADJUSTMENTS							DAY LEQ	66.53
Flow	25.76	8.52	4.57	19.72	2.49	-1.47		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	65.49	56.52	57.09	59.45	50.49	51.05	GRADE dB	0.00

DAY LEQ 66.53 NIGHT LEQ 60.49

LDN 68.5

Roadway: SR-74/Ortega Highway
Segment: Cambern Avenue to Interstate 15
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	32200.00
							SPEED	45.00
-							DISTANCE	78.40
INPUT PARAMETERS								
Vehicles per hour	1819.42	34.36	13.82	453.11	8.56	3.44	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	25.76	8.52	4.57	19.72	2.49	-1.47		
Distance	-3.04	-3.04	-3.04	-3.04	-3.04	-3.04		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: SR-74/Ortega Highway
Segment: Cambern Avenue to Interstate 15
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	32200.00
							SPEED	45.00
-							DISTANCE	168.80
INPUT PARAMETERS								
Vehicles per hour	1819.42	34.36	13.82	453.11	8.56	3.44	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.76	8.52	4.57	19.72	2.49	-1.47		
Distance	-8.03	-8.03	-8.03	-8.03	-8.03	-8.03		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: SR-74/Ortega Highway
Segment: Cambern Avenue to Interstate 15
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	32200.00
							SPEED	45.00
-							DISTANCE	363.50
INPUT PARAMETERS								
Vehicles per hour	1819.42	34.36	13.82	453.11	8.56	3.44	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.76	8.52	4.57	19.72	2.49	-1.47		
Distance	-13.03	-13.03	-13.03	-13.03	-13.03	-13.03		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: SR-74/Ortega Highway
Segment: Grand Avenue to Cleveland National Forest

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	706.30	13.34	5.37	175.90	3.32	1.34
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.65	4.41	0.46	15.61	-1.62	-5.58
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.38	52.42	52.98	55.34	46.38	46.94

ADT	12500.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	64.35
DAY LEQ	62.42
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 62.42 NIGHT LEQ 56.38

LDN 64.3

Roadway: SR-74/Ortega Highway
Segment: Grand Avenue to Cleveland National Forest
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	706.30	13.34	5.37	175.90	3.32	1.34
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.65	4.41	0.46	15.61	-1.62	-5.58
Distance	1.08	1.08	1.08	1.08	1.08	1.08
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.68	61.04	52.08	52.64

ADT	12500.00
SPEED	45.00
DISTANCE	41.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: SR-74/Ortega Highway
Segment: Grand Avenue to Cleveland National Forest
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	706.30	13.34	5.37	175.90	3.32	1.34
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.65	4.41	0.46	15.61	-1.62	-5.58
Distance	-3.92	-3.92	-3.92	-3.92	-3.92	-3.92
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

ADT	12500.00
SPEED	45.00
DISTANCE	89.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: SR-74/Ortega Highway
Segment: Grand Avenue to Cleveland National Forest
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	706.30	13.34	5.37	175.90	3.32	1.34
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.65	4.41	0.46	15.61	-1.62	-5.58
Distance	-8.92	-8.92	-8.92	-8.92	-8.92	-8.92
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	12500.00
SPEED	45.00
DISTANCE	193.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Summerhill Drive
Segment: Vacation Drive to Railroad Canyon Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	762.80	14.41	5.79	189.97	3.59	1.44
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.50	5.26	1.30	16.46	-0.78	-4.73
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	60.24	51.95	52.84	54.20	45.91	46.81

ADT	13500.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	63.41
DAY LEQ	61.48
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 61.48 NIGHT LEQ 55.44

LDN 63.4

Roadway: Summerhill Drive
Segment: Vacation Drive to Railroad Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	762.80	14.41	5.79	189.97	3.59	1.44
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.50	5.26	1.30	16.46	-0.78	-4.73
Distance	2.02	2.02	2.02	2.02	2.02	2.02
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.87	58.59	59.48	60.84	52.55	53.44

ADT	13500.00
SPEED	40.00
DISTANCE	36.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Summerhill Drive
Segment: Vacation Drive to Railroad Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	762.80	14.41	5.79	189.97	3.59	1.44
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.50	5.26	1.30	16.46	-0.78	-4.73
Distance	-2.98	-2.98	-2.98	-2.98	-2.98	-2.98
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.60	54.49	55.84	47.56	48.45

ADT	13500.00
SPEED	40.00
DISTANCE	77.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Summerhill Drive
Segment: Vacation Drive to Railroad Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	762.80	14.41	5.79	189.97	3.59	1.44
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.50	5.26	1.30	16.46	-0.78	-4.73
Distance	-7.98	-7.98	-7.98	-7.98	-7.98	-7.98
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.60	49.49	50.84	42.56	43.45

ADT	13500.00
SPEED	40.00
DISTANCE	167.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Temescal Canyon Road
Segment: Larson Road to Lake Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	6500.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	367.27	6.94	2.79	91.47	1.73	0.69	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	61.51
ADJUSTMENTS							DAY LEQ	59.58
Flow	18.81	1.57	-2.38	12.77	-4.46	-8.42		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	58.54	49.58	50.14	52.50	43.54	44.10	GRADE dB	0.00

DAY LEQ 59.58 NIGHT LEQ 53.54

LDN 61.5

Roadway: Temescal Canyon Road
Segment: Larson Road to Lake Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	6500.00
							SPEED	45.00
-							DISTANCE	27.00
INPUT PARAMETERS								
Vehicles per hour	367.27	6.94	2.79	91.47	1.73	0.69	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	18.81	1.57	-2.38	12.77	-4.46	-8.42		
Distance	3.91	3.91	3.91	3.91	3.91	3.91		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.10	58.67	61.03	52.07	52.63	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Temescal Canyon Road
Segment: Larson Road to Lake Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	6500.00
							SPEED	45.00
-							DISTANCE	58.10
INPUT PARAMETERS								
Vehicles per hour	367.27	6.94	2.79	91.47	1.73	0.69	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	18.81	1.57	-2.38	12.77	-4.46	-8.42		
Distance	-1.08	-1.08	-1.08	-1.08	-1.08	-1.08		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Temescal Canyon Road
Segment: Larson Road to Lake Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	6500.00
							SPEED	45.00
-							DISTANCE	125.10
INPUT PARAMETERS								
Vehicles per hour	367.27	6.94	2.79	91.47	1.73	0.69	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	18.81	1.57	-2.38	12.77	-4.46	-8.42		
Distance	-6.08	-6.08	-6.08	-6.08	-6.08	-6.08		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

APPENDIX E – PART 2

GENERAL PLAN BUILDOUT

Lake Elsinore General Plan Update
Modeled General Plan 2030 Buildout Roadway Noise Levels

Roadway	From:	To:	Total Daily Traffic Volumes	Vehicle Speed (mph)	Ldn at Receiver (100 ft) (dBA)	Distance to Noise Contour		
						70 dBA Ldn	65 dBA Ldn	60 dBA Ldn
Temescal Canyon Road	N of Indian Truck Trail	Indian Truck Trail	19,000	45	66.2	55.1	118.7	255.8
	Indian Truck Trail	Horsethief Canyon Road	31,000	55	70.5	107.7	232.1	499.9
	Horsethief Canyon Rd	S of Horsethief Canyon Rd.	50,000	55	72.6	148.2	319.1	687.5
	N of Road “A”	Road “A”	48,000	45	70.2	102.2	220.2	474.4
	Road “A”	S of Road “A”	32,000	45	68.4	78.0	168.1	362.0
	Road “A”	Nichols Road	27,000	45	67.7	69.7	150.1	323.3
	N of Nichols Road	Nichols Road	30,000	45	68.2	74.8	161.0	346.8
Lincoln Street	Nichols Road	S of Nichols Road	26,000	40	66.3	55.9	120.3	259.2
	N of Lake Street	Lake Street	22,000	40	65.5	50.0	107.6	231.8
	Lake Street	Machado Street	8,000	40	61.1	25.5	54.9	118.1
	Machado Street	Riverside Drive	4,000	35	56.7	13.0	27.9	60.0
De Palma Road	N of Indian Truck Trail	Indian Truck Trail	5,000	40	59.1	18.6	40.1	86.4
	Indian Truck Trail	S of Indian Truck Trail	11,000	40	62.5	31.5	67.8	146.1
	N of Horsethief Canyon Rd	Horsethief Canyon Road	3,000	40	56.9	13.3	28.6	61.5
Indian Truck Trail	De Palma Road	Horsethief Canyon Road	3,000	40	56.9	13.3	28.6	61.5
Horsethief Canyon Road	De Palma Rd.	S of De Palma Rd	38,000	40	67.9	71.9	154.9	333.7
	N of Mountain Rd	Mountain Rd	26,000	40	66.3	55.9	120.3	259.2
	Mountain Rd	Mountain Rd	5,000	40	59.1	18.6	40.1	86.4
Mountain Road	Horsethief Canyon Rd.	E of Horsethief Canyon Rd	22,000	35	64.1	40.3	86.7	186.8
Road “A”	W of Temescal Canyon Rd	Temescal Canyon Rd	10,000	40	62.1	29.6	63.7	137.1
	Temescal Canyon	Lake Street	45,000	40	68.6	80.5	173.4	373.6
	Lake Street	Nichols Road	14,000	40	63.6	37.0	79.7	171.5
Alberhill Ranch Rd.	Lake Street	Nichols Road	3,000	35	55.5	10.7	23.0	49.5
Lake Street	Walker Canyon Rd.	I-15 NB Ramps	29,000	50	69.2	87.4	188.3	405.5
	I-15 NB Ramps	I-15 SB Ramps	53,000	50	71.8	130.6	281.4	606.2
	I-15 SB Ramps	Road “A”	72,000	50	73.1	160.2	345.1	743.5
	Road “A”	S of Road “A”	41,000	50	70.7	110.1	237.1	510.8

Roadway	From:	To:	Total Daily Traffic Volumes	Vehicle Speed (mph)	Ldn at Receiver (100 ft) (dBA)	Distance to Noise Contour		
						70 dBA Ldn	65 dBA Ldn	60 dBA Ldn
	N of Nichols Rd	Nichols Rd	47,000	50	71.3	120.6	159.7	559.5
	Nichols Rd	Alberhill Ranch Rd	39,000	50	70.5	106.5	229.4	494.1
	Alberhill Ranch Rd	Lakeshore Dr.	43,000	45	69.7	95.0	204.6	440.8
Grand Avenue	Lakeshore Dr.	Lincoln St	19,000	45	62.2	55.1	118.7	255.8
	Lincoln St	Alvarado St	36,000	45	68.9	84.4	181.8	391.6
	Alvarado St	Machado St	30,000	45	68.2	74.8	161.0	346.8
	Machado St	Riverside Dr	33,000	45	68.6	79.7	171.6	369.5
	Riverside Dr	SR-74/Ortega Highway	60,000	45	71.2	118.6	255.5	550.5
	SR-74/Ortega Highway	S of SR-74/Ortega Hwy	54,000	45	70.7	110.6	238.2	513.1
	N of Stoneman St	Stoneman Street	67,000	45	71.6	127.7	275.0	592.5
Walker Canyon Rd	Lake Street	E of Lake Street	18,000	45	65.9	53.2	114.5	246.7
	N of Nichols Rd	Nichols Rd	15,000	45	65.1	47.1	101.4	218.5
Nichols Rd	Temescal Canyon	Lake Street	16,000	45	65.4	49.2	105.9	228.1
	Lake St.	Road “A”/Alberhill Ranch Rd.	25,000	45	67.4	66.2	142.6	307.1
	Road “A”/Alberhill Ranch Rd.	Terra Cotta Rd	41,000	45	69.5	92.0	198.3	427.1
	Terra Cotta Rd	Baker St	47,000	45	70.1	100.8	217.1	467.8
	Baker St	Collier Ave.	48,000	45	70.2	102.2	220.2	474.4
	I-15 SB Ramps	I-15 NB Ramps	55,000	45	70.8	112.0	241.1	519.4
	I-15 NB Ramps	Walker Canyon Rd	61,000	45	71.2	119.9	258.4	556.7
	Walker Canyon Rd	El Toro Rd.	58,000	45	71.0	116.0	249.8	538.2
	El Toro Rd.	11th St/	37,000	45	69.1	86.0	185.1	398.8
	11th St/	Rosarita Dr.	40,000	45	69.4	90.5	195.0	420.1
	Rosarita Dr.	E of Rosarita Dr.	40,000	45	69.4	90.5	195.0	420.1
	W of SR-74	SR-74	33,000	45	68.4	79.7	171.6	369.5
Riverside St.	SR-74	Steel Valley Rd	25,000	45	67.4	66.2	142.6	307.1
Terra Cotta Rd	Nichols Rd	Lakeshore Dr.	17,000	35	63.0	33.9	73.1	157.3
Lakeshore Drive	Lake Street	Terra Cotta Road	34,000	45	68.7	81.3	175.0	377.0
	Terra Cotta Road	Machado Street	39,000	45	69.3	89.0	191.8	413.1
	Machado Street	Gunnerson St	32,000	45	68.4	78.0	168.1	362.0
	Gunnerson St	Riverside Drive	30,000	45	68.2	74.8	161.0	346.8
	Riverside Drive	Chaney Street	16,000	45	65.4	49.2	105.9	228.1

Roadway	From:	To:	Total Daily Traffic Volumes	Vehicle Speed (mph)	Ldn at Receiver (100 ft) (dBA)	Distance to Noise Contour		
						70 dBA Ldn	65 dBA Ldn	60 dBA Ldn
	Chaney St	Graham Ave.	17,000	45	65.7	51.2	110.3	237.5
Limited St	Lakeshore Dr.	Langstaff St.	10,000	35	60.7	23.8	51.3	110.5
	Langstaff St.	Spring St.	14,000	35	62.2	29.8	64.2	138.2
	Spring St.	Main Street	3,000	35	55.5	10.7	23.0	49.5
Alvarado St.	Grand Ave.	Machado St.	3,000	25	52.1	6.5	13.8	29.8
Machado St.	Lakeshore Dr.	Joy St.	15,000	40	63.9	38.7	83.4	179.6
	Joy St.	Lincoln St.	13,000	40	63.2	35.2	75.8	163.3
	Lincoln St.	Alvarado St.	12,000	40	62.9	33.4	71.9	154.8
	Alvarado St.	Grand Ave.	5,000	40	59.1	18.6	40.1	86.4
Gunnerson St.	N of Lakeshore Drive	Lakeshore Drive	3,000	40	56.9	13.3	28.6	61.5
	W of Riverside Drive	Riverside Drive	9,000	40	61.6	27.6	59.3	127.8
Baker St.	Nichols Rd.	Riverside Dr.	3,000	30	53.9	8.4	18.1	39.0
Pasadena St.	Riverside Dr.	Central Ave.	7,000	45	61.8	28.4	61.0	131.5
	Central Ave.	E. of Central Ave.	6,000	45	61.2	25.6	55.1	118.6
Collier Ave.	Nichols Rd.	Riverside Dr.	22,000	50	68.0	72.7	156.6	337.3
	Riverside Dr.	Enterprise Way	51,000	50	71.6	127.3	274.3	590.8
	Enterprise Way	Central Ave.	55,000	50	71.9	133.9	288.4	621.3
	Central Ave.	Chaney St.	22,000	50	68.0	72.7	156.6	337.3
	Chaney St.	Minthorn St.	17,000	50	66.9	61.2	131.9	284.1
Minthorn St.	Collier St.	Spring St.	17,000	35	63.0	33.9	73.1	157.3
Flint St.	Spring St.	Main St.	14,000	30	60.6	23.5	50.5	108.7
	Main St.	Rancho St.	7,000	30	57.6	14.8	31.8	68.5
	Rancho St.	E. of Rancho St.	8,000	30	58.2	16.2	34.8	74.9
	W. of Avenue 6	Avenue 6	9,000	30	58.7	17.5	37.6	81.0
Franklin St.	Avenue 6	Old Franklin St./Auto Center Dr.	26,000	35	64.8	45.0	97.0	208.8
Auto Center Dr.	Old Franklin St.	W of Diamond Dr.	26,000	40	66.3	55.9	120.3	259.2
	W of Diamond Dr.	Diamond Dr.	24,000	40	65.9	53.0	114.1	245.7
Casino Dr.	Diamond Dr.	I-15 SB Ramps	38,000	40	67.9	71.9	154.9	333.7
	I-15 SB Ramps	Malaga Rd.	13,000	40	63.2	35.2	75.8	163.3
El Toro Rd.	Nichols Rd.	Dexter Ave.	7,000	35	59.1	18.8	40.5	87.1
11th St.	Nichols Rd.	Dexter Ave.	6,000	35	58.5	17.0	36.5	78.6

Roadway	From:	To:	Total Daily Traffic Volumes	Vehicle Speed (mph)	Ldn at Receiver (100 ft) (dBA)	Distance to Noise Contour		
						70 dBA Ldn	65 dBA Ldn	60 dBA Ldn
Rosarita Dr.	Nichols Rd.	Conard Ave.	13,000	40	63.2	35.2	75.8	163.3
Conard Ave.	Rosarita Dr.	Central Ave.	15,000	40	63.9	38.7	83.4	179.6
Riverside Dr.	N. of Collier Ave.	Collier Ave.	29,000	40	66.7	60.1	129.4	278.7
	Collier Avenue	Baker Street	59,000	45	71.1	117.3	252.7	544.3
	Baker St.	Gunnerson Street	65,000	45	71.5	125.1	269.5	580.6
	Gunnerson St.	Lakeshore Drive	61,000	45	71.2	119.9	258.4	556.6
	Lakeshore Drive	Joy St.	55,000	45	70.8	112.0	241.1	519.4
	Joy Street	Lincoln Street	53,000	45	70.6	109.2	235.3	506.8
	Lincoln Street	Grand Ave.	34,000	45	68.7	81.3	175.0	377.0
Central Ave.	W. of Collier Ave.	Collier Ave.	7,000	35	59.1	18.8	40.5	87.1
	Collier Ave.	I-15 SB Ramps	60,000	45	71.2	118.6	255.5	550.5
	I-15 SB Ramps	I-15 NB Ramps	56,000	45	70.9	113.3	244.0	525.7
	I-15 NB Ramps	Dexter Ave.	56,000	45	70.9	113.3	244.0	525.7
	Dexter Ave.	Cambern Ave.	46,000	45	70.0	100.0	214.1	461.1
	Cambern Ave.	Conard Ave.	58,000	45	71.0	116.0	249.8	538.2
	Conard Ave.	Rosetta Canyon	48,000	50	71.4	122.3	263.4	567.4
	Rosetta Canyon	Riverside Dr.	51,000	50	71.6	127.3	274.3	590.8
SR-74	Riverside Dr.	Wasson Canyon Rd.	57,000	50	72.1	137.1	295.4	636.3
SR-74/Ortega Hwy.	Grand Ave	S of Grand Ave.	29,000	45	68.0	73.1	157.4	339.0
Cambern Ave.	Dexter Ave.	Central Ave.	28,000	40	66.6	58.7	126.4	272.3
	Central Ave.	3rd St.	16,000	40	64.1	40.4	87.1	187.5
	3rd St.	2nd St.	7,000	40	30.6	23.3	50.2	108.1
2nd St.	Cambern Ave.	Dexter Ave.	9,000	40	61.6	27.6	59.3	127.8
	Dexter Ave.	Camino Del Norte	10,000	55	65.6	50.7	109.2	235.2
Camino Del Norte	2nd St	Main St	14,000	35	62.2	29.8	64.2	138.2
	Main St.	Rosetta Canyon	18,000	40	66.2	43.7	94.2	202.8
	Rosetta Canyon	La Strada	25,000	40	67.4	66.4	142.6	307.4
	La Strada	Avenue 6	32,000	35	65.7	51.7	111.3	239.8
	Avenue 6	Old Franklin St.	6,000	35	58.5	17.0	36.5	78.6
	Old Franklin St.	Summerhill Dr.	6,000	35	58.5	17.0	36.5	78.6
Lakeshore Dr.	Main St.	Avenue 6	42,000	45	69.6	93.5	201.5	434.0

Roadway	From:	To:	Total Daily Traffic Volumes	Vehicle Speed (mph)	Ldn at Receiver (100 ft) (dBA)	Distance to Noise Contour		
						70 dBA Ldn	65 dBA Ldn	60 dBA Ldn
	Avenue 6	Diamond Dr.	42,000	45	69.6	93.5	201.5	434.0
Mission Trail	Diamond Dr.	Malaga Rd.	26,000	45	67.5	68.0	146.3	315.2
	Malaga Rd.	Elberta Rd.	27,000	50	68.9	83.3	179.5	386.7
	Elberta Rd.	Olive St.	22,000	50	68.0	72.7	156.6	337.3
	Olive St.	Lewis St.	28,000	50	69.0	85.4	183.9	396.2
	Lewis St.	Lemon St.	29,000	50	69.2	87.4	188.3	405.5
	Lemon St.	Bundy Canyon Rd.	19,000	50	67.3	65.9	142.0	305.9
Rosetta Canyon	Central Ave.	E of Central Ave.	8,000	45	62.4	31.0	66.7	143.7
	N of Camino Del Norte	Camino Del Norte	13,000	45	64.5	42.8	92.2	198.6
Wasson Canyon Rd.	SR-74	Riverside Dr.	4,000	40	58.1	16.1	34.6	74.4
Avenue 6	Camino Del Norte	1-15 NB Ramps	28,000	40	66.6	58.7	126.4	272.3
	I-15 NB Ramps	I-15 SB Ramps	31,000	40	67.0	62.8	135.3	291.4
	I-15 SB Ramps	Flint St.	32,000	40	67.2	54.2	138.2	297.6
	Flint St.	Lakeshore Dr.	11,000	30	59.5	20.0	43.0	92.6
Greenwald Ave.	Riverside Dr.	Scenic Crest Dr.	21,000	40	65.3	48.5	104.4	224.8
	Scenic Crest Dr.	Via Scenica	20,000	40	65.1	46.9	101.0	217.6
	Via Scenica	Summerhill Dr.	13,000	40	63.2	35.2	75.8	163.3
Vacation Dr.	Summerhill Dr.	E. of Summerhill Dr.	9,000	40	61.6	27.6	59.3	127.8
Summerhill Dr.	Greenwald Ave.	La Strada	14,000	45	64.8	45.0	96.9	208.7
	La Strada	Via Scenica	12,000	45	64.2	40.6	87.4	188.3
	Via Scenica	Canyon Estates Dr.	12,000	45	64.2	40.6	87.4	188.3
	Canyon Estates Dr.	Railroad Canyon Rd.	22,000	45	66.8	60.8	130.9	282.0
Grape St.	Railroad Canyon Rd.	I-15 NB Ramps	33,000	45	68.6	79.7	171.6	369.5
	I-15 NB Ramps	S of I-15 NB Ramps	9,000	45	62.9	33.5	72.2	155.4
La Strada	Camino Del Norte	N of Camino Del Norte	21,000	45	66.6	58.9	126.9	273.4
	N of Camino Del Norte	W of Via Scenica	14,000	45	64.8	45.0	96.9	208.7
	W of Via Scenica	Via Scenica	12,000	45	64.2	40.6	87.4	188.3
	Via Scenica	Summerhill Dr.	3,000	35	55.5	10.7	23.0	49.5
Railroad Canyon Rd.	I-15 Freeway	Summerhill Dr.	46,000	30	65.8	51.8	111.5	240.2
	Summerhill Dr.	E of Summerhill Dr.	67,000	30	67.4	66.5	143.3	308.7
	E of Summerhill Dr.	W of Canyon Hills Dr.	68,000	50	72.9	154.2	332.2	715.7

Roadway	From:	To:	Total Daily Traffic Volumes	Vehicle Speed (mph)	Ldn at Receiver (100 ft) (dBA)	Distance to Noise Contour		
						70 dBA Ldn	65 dBA Ldn	60 dBA Ldn
	W of Canyon Hills Dr.	Canyon Hills Dr.	65,000	50	72.7	149.7	322.4	694.5
	Canyon Hills Dr.	E of Canyon Hills Dr.	54,000	50	71.9	132.3	284.9	316.8
Canyon Hills Dr.	Railroad Canyon Rd.	Lost Rd.	29,000	45	68.0	73.1	157.4	339.0
	Lost Rd.	Cottonwood Canyon Rd.	25,000	45	67.4	66.2	142.6	307.1
	Cottonwood Canyon Rd.	E. of Cottonwood Canyon Rd.	24,000	45	67.2	64.4	138.7	2998.9
Diamond Dr.	I-15 Freeway	Auto Center Dr.	46,000	30	65.8	51.8	111.5	240.2
	Auto Center Dr.	Mission Trail	51,000	30	66.2	55.5	119.5	257.3
	Mission Trail	Malaga Rd.	42,000	35	66.9	62.0	133.5	287.5
	Malaga Rd.	Elberta Rd. N	29,000	40	66.7	60.1	129.4	278.7
	Elberta Rd. N	Elberta Rd. S	27,000	40	66.4	57.3	123.4	265.8
	Elberta Rd. S	Olive St.	22,000	40	65.5	50.0	107.6	231.8
	Olive St.	W. of Corydon St.	18,000	40	64.7	43.7	94.2	202.8
	W. of Corydon St.	Corydon St.	15,000	40	63.9	38.7	83.4	179.6
Old Franklin St.	Auto Center Dr.	Canon Estates Drive	5,000	35	57.7	15.0	32.3	69.6
Corydon St.	Grand Ave.	Palomar St.	37,000	40	67.8	70.7	152.2	327.9
	Palomar St.	Diamond Dr.	43,000	40	68.4	78.1	168.2	362.4
	Diamond Dr.	Mission Trail	11,000	40	62.5	31.5	67.8	146.1
Interstate 15	Clinton Keith Road	Baxter Road	222,000	70	81.9	613.1	1,320.8	2,845.6
	Baxter Road	Bundy Canyon Road	222,000	70	81.9	613.1	1,320.8	2,845.6
	Bundy Canyon Road	Railroad Canyon Road	222,000	70	81.9	613.1	1,320.8	2,845.6
	Railroad Canyon Road	Franklin Street	262,000	70	82.6	684.7	1,475.1	3,177.9
	Franklin Street	Main Street	274,000	70	82.8	705.4	1,519.8	3,274.2
	Main Street	SR-74 Junction	283,000	70	82.9	702.8	1,444.9	3,345.5
	SR-74 Junction	Nichols Road	254,000	70	82.4	670.7	1,448.7	3,112.8
	Nichols Road	Lake Street	255,000	70	82.5	672.4	1,467.5	3,121.0
	Lake Street	Indian Trail Road	260,000	70	82.5	681.2	1,512.4	3,161.7
	Indian Trail Road	Temescal Canyon Road	272,000	70	82.7	702.0	1,519.8	3,285.2

FHWA Sound32 Spreadsheet

Roadway: 11th Street
Segment: Nichols Road to Dexter Avenue

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	6000.00
							SPEED	35.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	58.48
ADJUSTMENTS							DAY LEQ	56.55
Flow	19.56	2.32	-1.64	13.52	-3.72	-7.68		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	55.05	47.53	48.79	49.01	41.49	42.75	GRADE dB	0.00

DAY LEQ 56.55 NIGHT LEQ 50.51

LDN 58.5

Roadway: 11th Street
Segment: Nichols Road to Dexter Avenue
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	6000.00
							SPEED	35.00
							DISTANCE	17.00
INPUT PARAMETERS								
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	70.02
ADJUSTMENTS							DAY LEQ	68.09
Flow	19.56	2.32	-1.64	13.52	-3.72	-7.68		
Distance	6.92	6.92	6.92	6.92	6.92	6.92		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.59	59.07	60.33	60.55	53.03	54.29	GRADE dB	0.00

DAY LEQ 68.09 NIGHT LEQ 62.05

LDN 70.0

Roadway: 11th Street
Segment: Nichols Road to Dexter Avenue
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	6000.00
							SPEED	35.00
							DISTANCE	36.50
INPUT PARAMETERS								
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.11
Flow	19.56	2.32	-1.64	13.52	-3.72	-7.68		
Distance	1.95	1.95	1.95	1.95	1.95	1.95		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.61	54.09	55.35	55.57	48.05	49.32	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

Roadway: 11th Street
Segment: Nichols Road to Dexter Avenue
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	6000.00
							SPEED	35.00
							DISTANCE	78.60
INPUT PARAMETERS								
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	19.56	2.32	-1.64	13.52	-3.72	-7.68		
Distance	-3.05	-3.05	-3.05	-3.05	-3.05	-3.05		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.61	49.09	50.36	50.58	43.06	44.32	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: 2nd Street
Segment: Cambern Avenue to Dexter Avenue

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	20.74	3.50	-0.46	14.70	-2.54	-6.49
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	58.48	50.19	51.08	52.44	44.15	45.04

DAY LEQ 59.72 NIGHT LEQ 53.68

LDN 61.6

ADT	9000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	61.64
DAY LEQ	59.72
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: 2nd Street
Segment: Cambern Avenue to Dexter Avenue
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	20.74	3.50	-0.46	14.70	-2.54	-6.49
Distance	3.77	3.77	3.77	3.77	3.77	3.77
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.86	58.58	59.47	60.83	52.54	53.43

DAY LEQ 68.10 NIGHT LEQ 62.07

LDN 70.0

ADT	9000.00
SPEED	40.00
DISTANCE	27.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.03
DAY LEQ	68.10
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: 2nd Street
Segment: Cambern Avenue to Dexter Avenue
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	20.74	3.50	-0.46	14.70	-2.54	-6.49
Distance	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.49	55.84	47.56	48.45

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	9000.00
SPEED	40.00
DISTANCE	59.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: 2nd Street
Segment: Cambern Avenue to Dexter Avenue
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	20.74	3.50	-0.46	14.70	-2.54	-6.49
Distance	-6.22	-6.22	-6.22	-6.22	-6.22	-6.22
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.48	50.84	42.56	43.45

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	9000.00
SPEED	40.00
DISTANCE	127.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: 2nd Street
Segment: Dexter Avenue to Camino Del Norte

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	10000.00
							SPEED	55.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	565.04	10.67	4.29	140.72	2.66	1.07	% A	97.42
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	Ldn	65.62
ADJUSTMENTS							DAY LEQ	63.69
Flow	19.81	2.57	-1.38	13.77	-3.46	-7.42		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.92	52.81	52.81	56.88	46.77	46.77	GRADE dB	0.00

DAY LEQ 63.69 NIGHT LEQ 57.65

LDN 65.6

Roadway: 2nd Street
Segment: Dexter Avenue to Camino Del Norte
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	10000.00
							SPEED	55.00
							DISTANCE	50.70
INPUT PARAMETERS								
Vehicles per hour	565.04	10.67	4.29	140.72	2.66	1.07	% A	97.42
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	19.81	2.57	-1.38	13.77	-3.46	-7.42		
Distance	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.34	57.23	57.24	61.30	51.19	51.20	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: 2nd Street
Segment: Dexter Avenue to Camino Del Norte
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	10000.00
							SPEED	55.00
							DISTANCE	109.20
INPUT PARAMETERS								
Vehicles per hour	565.04	10.67	4.29	140.72	2.66	1.07	% A	97.42
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	19.81	2.57	-1.38	13.77	-3.46	-7.42		
Distance	-5.19	-5.19	-5.19	-5.19	-5.19	-5.19		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.34	52.23	52.24	56.31	46.20	46.20	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: 2nd Street
Segment: Dexter Avenue to Camino Del Norte
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	10000.00
							SPEED	55.00
							DISTANCE	235.20
INPUT PARAMETERS								
Vehicles per hour	565.04	10.67	4.29	140.72	2.66	1.07	% A	97.42
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	19.81	2.57	-1.38	13.77	-3.46	-7.42		
Distance	-10.19	-10.19	-10.19	-10.19	-10.19	-10.19		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.35	47.23	47.24	51.31	41.20	41.20	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Alberhill Ranch Road
Segment: Lake Street to Nichols Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	16.55	-0.69	-4.65	10.51	-6.73	-10.69
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	52.03	44.51	45.78	46.00	38.48	39.74

DAY LEQ 53.54 NIGHT LEQ 47.50

LDN 55.5

ADT	3000.00
SPEED	35.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	55.47
DAY LEQ	53.54
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Alberhill Ranch Road
Segment: Lake Street to Nichols Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	16.55	-0.69	-4.65	10.51	-6.73	-10.69
Distance	9.94	9.94	9.94	9.94	9.94	9.94
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.59	59.07	60.34	60.56	53.04	54.30

DAY LEQ 68.10 NIGHT LEQ 62.06

LDN 70.0

ADT	3000.00
SPEED	35.00
DISTANCE	10.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.03
DAY LEQ	68.10
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Alberhill Ranch Road
Segment: Lake Street to Nichols Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	16.55	-0.69	-4.65	10.51	-6.73	-10.69
Distance	4.95	4.95	4.95	4.95	4.95	4.95
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.61	54.09	55.35	55.57	48.05	49.31

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

ADT	3000.00
SPEED	35.00
DISTANCE	23.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Alberhill Ranch Road
Segment: Lake Street to Nichols Road
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	16.55	-0.69	-4.65	10.51	-6.73	-10.69
Distance	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.62	49.10	50.36	50.58	43.06	44.32

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	3000.00
SPEED	35.00
DISTANCE	49.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Alvarado Street
Segment: Grand Avenue to Machado Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24
ADJUSTMENTS						
Flow	18.01	0.77	-3.19	11.97	-5.27	-9.22
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	47.83	42.24	44.43	41.79	36.20	38.40

DAY LEQ	50.22
NIGHT LEQ	44.18
LDN	52.1

ADT	3000.00
SPEED	25.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	52.14
DAY LEQ	50.22
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Alvarado Street
Segment: Grand Avenue to Machado Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24
ADJUSTMENTS						
Flow	18.01	0.77	-3.19	11.97	-5.27	-9.22
Distance	13.19	13.19	13.19	13.19	13.19	13.19
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	65.63	60.04	62.24	59.60	54.00	56.20

DAY LEQ	68.02
NIGHT LEQ	61.99
LDN	70.0

ADT	3000.00
SPEED	25.00
DISTANCE	6.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	69.95
DAY LEQ	68.02
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Alvarado Street
Segment: Grand Avenue to Machado Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24
ADJUSTMENTS						
Flow	18.01	0.77	-3.19	11.97	-5.27	-9.22
Distance	8.28	8.28	8.28	8.28	8.28	8.28
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	60.73	55.14	57.33	54.69	49.10	51.30

DAY LEQ	63.12
NIGHT LEQ	57.08
LDN	65.0

ADT	3000.00
SPEED	25.00
DISTANCE	13.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Alvarado Street
Segment: Grand Avenue to Machado Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24
ADJUSTMENTS						
Flow	18.01	0.77	-3.19	11.97	-5.27	-9.22
Distance	3.27	3.27	3.27	3.27	3.27	3.27
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	55.71	50.12	52.32	49.68	44.08	46.28

DAY LEQ	58.10
NIGHT LEQ	52.07
LDN	60.0

ADT	3000.00
SPEED	25.00
DISTANCE	29.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.03
DAY LEQ	58.10
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Auto Center Drive
Segment: Old Franklin Street to W of Diamond Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	26000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	66.25
ADJUSTMENTS							DAY LEQ	64.32
Flow	25.34	8.11	4.15	19.31	2.07	-1.89		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	63.08	54.80	55.69	57.05	48.76	49.65	GRADE dB	0.00

DAY LEQ 64.32 NIGHT LEQ 58.29

LDN 66.3

Roadway: Auto Center Drive
Segment: Old Franklin Street to W of Diamond Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	26000.00
							SPEED	40.00
-							DISTANCE	55.90
INPUT PARAMETERS								
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	25.34	8.11	4.15	19.31	2.07	-1.89		
Distance	-0.83	-0.83	-0.83	-0.83	-0.83	-0.83		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.87	58.59	59.48	60.84	52.55	53.44	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Auto Center Drive
Segment: Old Franklin Street to W of Diamond Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	26000.00
							SPEED	40.00
-							DISTANCE	120.30
INPUT PARAMETERS								
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.34	8.11	4.15	19.31	2.07	-1.89		
Distance	-5.82	-5.82	-5.82	-5.82	-5.82	-5.82		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Auto Center Drive
Segment: Old Franklin Street to W of Diamond Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	26000.00
							SPEED	40.00
-							DISTANCE	259.20
INPUT PARAMETERS								
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.34	8.11	4.15	19.31	2.07	-1.89		
Distance	-10.83	-10.83	-10.83	-10.83	-10.83	-10.83		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.48	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Auto Center Drive
Segment: W of Diamond Drive to Diamond Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1356.09	25.61	10.30	337.72	6.38	2.57
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.00	7.76	3.80	18.96	1.72	-2.24
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.74	54.45	55.34	56.70	48.41	49.30

ADT	24000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.90
DAY LEQ	63.98
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.98 NIGHT LEQ 57.94

LDN 65.9

Roadway: Auto Center Drive
Segment: W of Diamond Drive to Diamond Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1356.09	25.61	10.30	337.72	6.38	2.57
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.00	7.76	3.80	18.96	1.72	-2.24
Distance	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.87	58.59	59.48	60.83	52.55	53.44

ADT	24000.00
SPEED	40.00
DISTANCE	53.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Auto Center Drive
Segment: W of Diamond Drive to Diamond Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1356.09	25.61	10.30	337.72	6.38	2.57
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.00	7.76	3.80	18.96	1.72	-2.24
Distance	-5.48	-5.48	-5.48	-5.48	-5.48	-5.48
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.55	48.44

ADT	24000.00
SPEED	40.00
DISTANCE	114.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Auto Center Drive
Segment: W of Diamond Drive to Diamond Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1356.09	25.61	10.30	337.72	6.38	2.57
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.00	7.76	3.80	18.96	1.72	-2.24
Distance	-10.48	-10.48	-10.48	-10.48	-10.48	-10.48
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.49	50.84	42.56	43.45

ADT	24000.00
SPEED	40.00
DISTANCE	245.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Avenue 6
Segment: Camino Del Norte to I-15 NB Ramps

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1582.10	29.88	12.02	394.01	7.44	2.99
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.67	8.43	4.47	19.63	2.39	-1.57
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	63.41	55.12	56.01	57.37	49.08	49.97

ADT	28000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	66.57
DAY LEQ	64.65
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 64.65 NIGHT LEQ 58.61

LDN 66.6

Roadway: Avenue 6
Segment: Camino Del Norte to I-15 NB Ramps
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1582.10	29.88	12.02	394.01	7.44	2.99
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.67	8.43	4.47	19.63	2.39	-1.57
Distance	-1.15	-1.15	-1.15	-1.15	-1.15	-1.15
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.88	58.59	59.48	60.84	52.55	53.44

ADT	28000.00
SPEED	40.00
DISTANCE	58.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Avenue 6
Segment: Camino Del Norte to I-15 NB Ramps
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1582.10	29.88	12.02	394.01	7.44	2.99
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.67	8.43	4.47	19.63	2.39	-1.57
Distance	-6.15	-6.15	-6.15	-6.15	-6.15	-6.15
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.56	48.45

ADT	28000.00
SPEED	40.00
DISTANCE	126.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Avenue 6
Segment: Camino Del Norte to I-15 NB Ramps
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1582.10	29.88	12.02	394.01	7.44	2.99
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.67	8.43	4.47	19.63	2.39	-1.57
Distance	-11.15	-11.15	-11.15	-11.15	-11.15	-11.15
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.49	50.84	42.56	43.45

ADT	28000.00
SPEED	40.00
DISTANCE	272.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Avenue 6
Segment: I-15 NB Ramps to I-15 SB Ramps

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1751.61	33.08	13.31	436.23	8.24	3.31
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	26.11	8.87	4.91	20.07	2.83	-1.12
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	63.85	55.56	56.45	57.81	49.52	50.42

ADT	31000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	67.02
DAY LEQ	65.09
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 65.09 NIGHT LEQ 59.05

LDN 67.0

Roadway: Avenue 6
Segment: I-15 NB Ramps to I-15 SB Ramps
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1751.61	33.08	13.31	436.23	8.24	3.31
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	26.11	8.87	4.91	20.07	2.83	-1.12
Distance	-1.59	-1.59	-1.59	-1.59	-1.59	-1.59
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.88	58.59	59.48	60.84	52.56	53.45

ADT	31000.00
SPEED	40.00
DISTANCE	62.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Avenue 6
Segment: I-15 NB Ramps to I-15 SB Ramps
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1751.61	33.08	13.31	436.23	8.24	3.31
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	26.11	8.87	4.91	20.07	2.83	-1.12
Distance	-6.59	-6.59	-6.59	-6.59	-6.59	-6.59
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.56	48.45

ADT	31000.00
SPEED	40.00
DISTANCE	135.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Avenue 6
Segment: I-15 NB Ramps to I-15 SB Ramps
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1751.61	33.08	13.31	436.23	8.24	3.31
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	26.11	8.87	4.91	20.07	2.83	-1.12
Distance	-11.59	-11.59	-11.59	-11.59	-11.59	-11.59
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.49	50.84	42.56	43.45

ADT	31000.00
SPEED	40.00
DISTANCE	291.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Avenue 6
Segment: I-15 SB Ramps to Flint Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	26.25	9.01	5.05	20.21	2.97	-0.99
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	63.99	55.70	56.59	57.95	49.66	50.55

DAY LEQ 65.23 NIGHT LEQ 59.19

LDN 67.2

ADT	32000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	67.15
DAY LEQ	65.23
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Avenue 6
Segment: I-15 SB Ramps to Flint Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	26.25	9.01	5.05	20.21	2.97	-0.99
Distance	-1.73	-1.73	-1.73	-1.73	-1.73	-1.73
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.87	58.59	59.48	60.83	52.55	53.44

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

ADT	32000.00
SPEED	40.00
DISTANCE	64.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Avenue 6
Segment: I-15 SB Ramps to Flint Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	26.25	9.01	5.05	20.21	2.97	-0.99
Distance	-6.73	-6.73	-6.73	-6.73	-6.73	-6.73
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.55	48.45

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	32000.00
SPEED	40.00
DISTANCE	138.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Avenue 6
Segment: I-15 SB Ramps to Flint Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	26.25	9.01	5.05	20.21	2.97	-0.99
Distance	-11.73	-11.73	-11.73	-11.73	-11.73	-11.73
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.60	49.49	50.84	42.56	43.45

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	32000.00
SPEED	40.00
DISTANCE	297.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Avenue 6
Segment: Flint Street to Lakeshore Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	621.54	11.74	4.72	154.79	2.92	1.18
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	22.86	5.62	1.66	16.82	-0.42	-4.37
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	55.75	49.11	50.80	49.71	43.08	44.77

DAY LEQ 57.62 NIGHT LEQ 51.58

LDN 59.5

ADT	11000.00
SPEED	30.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	59.54
DAY LEQ	57.62
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Avenue 6
Segment: Flint Street to Lakeshore Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	621.54	11.74	4.72	154.79	2.92	1.18
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	22.86	5.62	1.66	16.82	-0.42	-4.37
Distance	5.86	5.86	5.86	5.86	5.86	5.86
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.23	59.60	61.29	60.20	53.56	55.25

DAY LEQ 68.10 NIGHT LEQ 62.06

LDN 70.0

ADT	11000.00
SPEED	30.00
DISTANCE	20.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.03
DAY LEQ	68.10
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Avenue 6
Segment: Flint Street to Lakeshore Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	621.54	11.74	4.72	154.79	2.92	1.18
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	22.86	5.62	1.66	16.82	-0.42	-4.37
Distance	0.88	0.88	0.88	0.88	0.88	0.88
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.25	54.61	56.30	55.21	48.57	50.26

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

ADT	11000.00
SPEED	30.00
DISTANCE	43.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Avenue 6
Segment: Flint Street to Lakeshore Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	621.54	11.74	4.72	154.79	2.92	1.18
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	22.86	5.62	1.66	16.82	-0.42	-4.37
Distance	-4.12	-4.12	-4.12	-4.12	-4.12	-4.12
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.25	49.61	51.30	50.21	43.58	45.27

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	11000.00
SPEED	30.00
DISTANCE	92.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Baker Street
Segment: Nichols Road to Riverside Drive

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3000.00
							SPEED	30.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	53.90
ADJUSTMENTS							DAY LEQ	51.97
Flow	17.21	-0.02	-3.98	11.18	-6.06	-10.02		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	50.11	43.47	45.16	44.07	37.43	39.12	GRADE dB	0.00

DAY LEQ 51.97 NIGHT LEQ 45.94

LDN 53.9

Roadway: Baker Street
Segment: Nichols Road to Riverside Drive
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3000.00
							SPEED	30.00
-							DISTANCE	8.40
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	17.21	-0.02	-3.98	11.18	-6.06	-10.02		
Distance	11.52	11.52	11.52	11.52	11.52	11.52		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.24	59.61	61.30	60.21	53.57	55.26	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Baker Street
Segment: Nichols Road to Riverside Drive
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3000.00
							SPEED	30.00
-							DISTANCE	18.10
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.11
Flow	17.21	-0.02	-3.98	11.18	-6.06	-10.02		
Distance	6.51	6.51	6.51	6.51	6.51	6.51		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.24	54.61	56.30	55.20	48.57	50.26	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.07

LDN 65.0

Roadway: Baker Street
Segment: Nichols Road to Riverside Drive
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3000.00
							SPEED	30.00
-							DISTANCE	39.00
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	60.04
ADJUSTMENTS							DAY LEQ	58.11
Flow	17.21	-0.02	-3.98	11.18	-6.06	-10.02		
Distance	1.51	1.51	1.51	1.51	1.51	1.51		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.24	49.60	51.29	50.20	43.57	45.26	GRADE dB	0.00

DAY LEQ 58.11 NIGHT LEQ 52.07

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Cambern Avenue
Segment: Dexter Avenue to Central Avenue

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	28000.00
							SPEED	40.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1582.10	29.88	12.02	394.01	7.44	2.99	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	66.57
ADJUSTMENTS							DAY LEQ	64.65
Flow	25.67	8.43	4.47	19.63	2.39	-1.57		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	63.41	55.12	56.01	57.37	49.08	49.97	GRADE dB	0.00

DAY LEQ 64.65 NIGHT LEQ 58.61

LDN 66.6

Roadway: Cambern Avenue
Segment: Dexter Avenue to Central Avenue
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	28000.00
							SPEED	40.00
							DISTANCE	58.70
INPUT PARAMETERS								
Vehicles per hour	1582.10	29.88	12.02	394.01	7.44	2.99	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	25.67	8.43	4.47	19.63	2.39	-1.57		
Distance	-1.15	-1.15	-1.15	-1.15	-1.15	-1.15		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.88	58.59	59.48	60.84	52.55	53.44	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Cambern Avenue
Segment: Dexter Avenue to Central Avenue
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	28000.00
							SPEED	40.00
							DISTANCE	126.40
INPUT PARAMETERS								
Vehicles per hour	1582.10	29.88	12.02	394.01	7.44	2.99	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.67	8.43	4.47	19.63	2.39	-1.57		
Distance	-6.15	-6.15	-6.15	-6.15	-6.15	-6.15		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Cambern Avenue
Segment: Dexter Avenue to Central Avenue
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	28000.00
							SPEED	40.00
							DISTANCE	272.30
INPUT PARAMETERS								
Vehicles per hour	1582.10	29.88	12.02	394.01	7.44	2.99	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.67	8.43	4.47	19.63	2.39	-1.57		
Distance	-11.15	-11.15	-11.15	-11.15	-11.15	-11.15		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Cambern Avenue
Segment: Central Avenue to 3rd Street

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	904.06	17.08	6.87	225.15	4.25	1.71
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	60.97	52.69	53.58	54.94	46.65	47.54

ADT	16000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	64.14
DAY LEQ	62.22
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 62.22 NIGHT LEQ 56.18

LDN 64.1

Roadway: Cambern Avenue
Segment: Central Avenue to 3rd Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	904.06	17.08	6.87	225.15	4.25	1.71
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00
Distance	1.28	1.28	1.28	1.28	1.28	1.28
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.88	58.59	59.48	60.84	52.56	53.45

ADT	16000.00
SPEED	40.00
DISTANCE	40.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Cambern Avenue
Segment: Central Avenue to 3rd Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	904.06	17.08	6.87	225.15	4.25	1.71
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00
Distance	-3.72	-3.72	-3.72	-3.72	-3.72	-3.72
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.87	53.59	54.48	55.84	47.55	48.44

ADT	16000.00
SPEED	40.00
DISTANCE	87.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Cambern Avenue
Segment: Central Avenue to 3rd Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	904.06	17.08	6.87	225.15	4.25	1.71
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00
Distance	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.49	50.84	42.56	43.45

ADT	16000.00
SPEED	40.00
DISTANCE	187.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Cambern Avenue
Segment: 3rd Street to 2nd Street

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	19.65	2.41	-1.55	13.61	-3.63	-7.59
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.38	49.10	49.99	51.35	43.06	43.95

DAY LEQ 58.63 NIGHT LEQ 52.59

LDN 60.6

ADT	7000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.55
DAY LEQ	58.63
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Cambern Avenue
Segment: 3rd Street to 2nd Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	19.65	2.41	-1.55	13.61	-3.63	-7.59
Distance	4.87	4.87	4.87	4.87	4.87	4.87
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.87	58.59	59.48	60.84	52.55	53.44

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

ADT	7000.00
SPEED	40.00
DISTANCE	23.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Cambern Avenue
Segment: 3rd Street to 2nd Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	19.65	2.41	-1.55	13.61	-3.63	-7.59
Distance	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.87	53.59	54.48	55.84	47.55	48.44

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

ADT	7000.00
SPEED	40.00
DISTANCE	50.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Cambern Avenue
Segment: 3rd Street to 2nd Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	19.65	2.41	-1.55	13.61	-3.63	-7.59
Distance	-5.13	-5.13	-5.13	-5.13	-5.13	-5.13
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.48	50.84	42.55	43.45

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	7000.00
SPEED	40.00
DISTANCE	108.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Camino Del Norte
Segment: 2nd Street to Main Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	58.72	51.20	52.47	52.69	45.17	46.43

ADT	14000.00
SPEED	35.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	62.16
DAY LEQ	60.23
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 60.23 NIGHT LEQ 54.19

LDN 62.2

Roadway: Camino Del Norte
Segment: 2nd Street to Main Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00
Distance	3.27	3.27	3.27	3.27	3.27	3.27
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.61	59.09	60.35	60.57	53.05	54.32

ADT	14000.00
SPEED	35.00
DISTANCE	29.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Camino Del Norte
Segment: 2nd Street to Main Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00
Distance	-1.73	-1.73	-1.73	-1.73	-1.73	-1.73
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.61	54.09	55.35	55.57	48.05	49.32

ADT	14000.00
SPEED	35.00
DISTANCE	64.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Camino Del Norte
Segment: 2nd Street to Main Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00
Distance	-6.73	-6.73	-6.73	-6.73	-6.73	-6.73
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.62	49.10	50.36	50.58	43.06	44.32

ADT	14000.00
SPEED	35.00
DISTANCE	138.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Camino Del Norte
Segment: Main Street to Rosetta Canyon

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1017.06	19.21	7.73	253.29	4.78	1.92
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.75	6.51	2.55	17.71	0.47	-3.48
Distance	-3.08	-3.08	-3.08	-3.08	-3.08	-3.08
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	63.03	54.74	55.63	56.99	48.70	49.59

ADT	18000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	66.20
DAY LEQ	64.27
Absorbtive?	no
Use hour?	no
GRADE dB	0.00

DAY LEQ 64.27 NIGHT LEQ 58.23

LDN 66.2

Roadway: Camino Del Norte
Segment: Main Street to Rosetta Canyon
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1017.06	19.21	7.73	253.29	4.78	1.92
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.75	6.51	2.55	17.71	0.47	-3.48
Distance	0.77	0.77	0.77	0.77	0.77	0.77
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.88	58.59	59.48	60.84	52.56	53.45

ADT	18000.00
SPEED	40.00
DISTANCE	43.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Camino Del Norte
Segment: Main Street to Rosetta Canyon
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1017.06	19.21	7.73	253.29	4.78	1.92
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.75	6.51	2.55	17.71	0.47	-3.48
Distance	-4.23	-4.23	-4.23	-4.23	-4.23	-4.23
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.55	48.44

ADT	18000.00
SPEED	40.00
DISTANCE	94.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Camino Del Norte
Segment: Main Street to Rosetta Canyon
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1017.06	19.21	7.73	253.29	4.78	1.92
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.75	6.51	2.55	17.71	0.47	-3.48
Distance	-9.23	-9.23	-9.23	-9.23	-9.23	-9.23
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.49	50.84	42.56	43.45

ADT	18000.00
SPEED	40.00
DISTANCE	202.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Camino Del Norte
Segment: Rosetta Canyon to La Strada

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.66	7.42	3.47	18.62	1.39	-2.57
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	64.39	55.43	55.99	58.35	49.39	49.95

ADT	25000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	67.36
DAY LEQ	65.43
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 65.43 NIGHT LEQ 59.39

LDN 67.4

Roadway: Camino Del Norte
Segment: Rosetta Canyon to La Strada
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.66	7.42	3.47	18.62	1.39	-2.57
Distance	-1.95	-1.95	-1.95	-1.95	-1.95	-1.95
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.05	58.09	58.66	61.02	52.06	52.62

ADT	25000.00
SPEED	45.00
DISTANCE	66.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.03
DAY LEQ	68.10
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.10 NIGHT LEQ 62.06

LDN 70.0

Roadway: Camino Del Norte
Segment: Rosetta Canyon to La Strada
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.66	7.42	3.47	18.62	1.39	-2.57
Distance	-6.93	-6.93	-6.93	-6.93	-6.93	-6.93
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.07	53.11	53.68	56.04	47.08	47.64

ADT	25000.00
SPEED	40.00
DISTANCE	142.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Camino Del Norte
Segment: Rosetta Canyon to La Strada
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.66	7.42	3.47	18.62	1.39	-2.57
Distance	-11.94	-11.94	-11.94	-11.94	-11.94	-11.94
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.07	48.11	48.67	51.03	42.07	42.64

ADT	25000.00
SPEED	45.00
DISTANCE	307.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.04
DAY LEQ	58.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.11 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Camino Del Norte
Segment: La Strada to Avenue 6

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	32000.00
							SPEED	35.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.75
ADJUSTMENTS							DAY LEQ	63.82
Flow	26.83	9.59	5.63	20.79	3.55	-0.41		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.32	54.80	56.06	56.28	48.76	50.02	GRADE dB	0.00

DAY LEQ 63.82 NIGHT LEQ 57.78

LDN 65.7

Roadway: Camino Del Norte
Segment: La Strada to Avenue 6
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	32000.00
							SPEED	35.00
-							DISTANCE	51.70
INPUT PARAMETERS								
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	26.83	9.59	5.63	20.79	3.55	-0.41		
Distance	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.61	59.09	60.35	60.58	53.06	54.32	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Camino Del Norte
Segment: La Strada to Avenue 6
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	32000.00
							SPEED	35.00
-							DISTANCE	111.30
INPUT PARAMETERS								
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	26.83	9.59	5.63	20.79	3.55	-0.41		
Distance	-5.32	-5.32	-5.32	-5.32	-5.32	-5.32		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.62	54.10	55.36	55.58	48.06	49.32	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Camino Del Norte
Segment: La Strada to Avenue 6
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	32000.00
							SPEED	35.00
-							DISTANCE	239.80
INPUT PARAMETERS								
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	26.83	9.59	5.63	20.79	3.55	-0.41		
Distance	-10.32	-10.32	-10.32	-10.32	-10.32	-10.32		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.62	49.10	50.36	50.58	43.06	44.32	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Camino Del Norte
Segment: Avenue 6 to Old Franklin Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	6000.00
							SPEED	35.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	58.48
ADJUSTMENTS							DAY LEQ	56.55
Flow	19.56	2.32	-1.64	13.52	-3.72	-7.68		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	55.05	47.53	48.79	49.01	41.49	42.75	GRADE dB	0.00

DAY LEQ 56.55 NIGHT LEQ 50.51

LDN 58.5

Roadway: Camino Del Norte
Segment: Avenue 6 to Old Franklin Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	6000.00
							SPEED	35.00
-							DISTANCE	17.00
INPUT PARAMETERS								
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	70.02
ADJUSTMENTS							DAY LEQ	68.09
Flow	19.56	2.32	-1.64	13.52	-3.72	-7.68		
Distance	6.92	6.92	6.92	6.92	6.92	6.92		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.59	59.07	60.33	60.55	53.03	54.29	GRADE dB	0.00

DAY LEQ 68.09 NIGHT LEQ 62.05

LDN 70.0

Roadway: Camino Del Norte
Segment: Avenue 6 to Old Franklin Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	6000.00
							SPEED	35.00
-							DISTANCE	36.50
INPUT PARAMETERS								
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.11
Flow	19.56	2.32	-1.64	13.52	-3.72	-7.68		
Distance	1.95	1.95	1.95	1.95	1.95	1.95		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.61	54.09	55.35	55.57	48.05	49.32	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

Roadway: Camino Del Norte
Segment: Avenue 6 to Old Franklin Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	6000.00
							SPEED	35.00
-							DISTANCE	78.60
INPUT PARAMETERS								
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	19.56	2.32	-1.64	13.52	-3.72	-7.68		
Distance	-3.05	-3.05	-3.05	-3.05	-3.05	-3.05		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.61	49.09	50.36	50.58	43.06	44.32	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Camino Del Norte
Segment: Old Franklin Street to Summerhill Drive

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	19.56	2.32	-1.64	13.52	-3.72	-7.68
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	55.05	47.53	48.79	49.01	41.49	42.75

DAY LEQ 56.55 NIGHT LEQ 50.51

LDN 58.5

ADT	6000.00
SPEED	35.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	58.48
DAY LEQ	56.55
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Camino Del Norte
Segment: Old Franklin Street to Summerhill Drive
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	19.56	2.32	-1.64	13.52	-3.72	-7.68
Distance	6.92	6.92	6.92	6.92	6.92	6.92
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.59	59.07	60.33	60.55	53.03	54.29

DAY LEQ 68.09 NIGHT LEQ 62.05

LDN 70.0

ADT	6000.00
SPEED	35.00
DISTANCE	17.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.02
DAY LEQ	68.09
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Camino Del Norte
Segment: Old Franklin Street to Summerhill Drive
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	19.56	2.32	-1.64	13.52	-3.72	-7.68
Distance	1.95	1.95	1.95	1.95	1.95	1.95
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.61	54.09	55.35	55.57	48.05	49.32

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

ADT	6000.00
SPEED	35.00
DISTANCE	36.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Camino Del Norte
Segment: Old Franklin Street to Summerhill Drive
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	19.56	2.32	-1.64	13.52	-3.72	-7.68
Distance	-3.05	-3.05	-3.05	-3.05	-3.05	-3.05
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.61	49.09	50.36	50.58	43.06	44.32

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	6000.00
SPEED	35.00
DISTANCE	78.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Canyon Hills Drive
Segment: Railroad Canyon Road to Lost Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.31	8.07	4.11	19.27	2.03	-1.92
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	65.03	56.07	56.63	58.99	50.03	50.60

ADT	29000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	68.00
DAY LEQ	66.07
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 66.07 NIGHT LEQ 60.04

LDN 68.0

Roadway: Canyon Hills Drive
Segment: Railroad Canyon Road to Lost Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.31	8.07	4.11	19.27	2.03	-1.92
Distance	-2.58	-2.58	-2.58	-2.58	-2.58	-2.58
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.68	61.03	52.07	52.64

ADT	29000.00
SPEED	45.00
DISTANCE	73.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Canyon Hills Drive
Segment: Railroad Canyon Road to Lost Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.31	8.07	4.11	19.27	2.03	-1.92
Distance	-7.58	-7.58	-7.58	-7.58	-7.58	-7.58
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

ADT	29000.00
SPEED	45.00
DISTANCE	157.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Canyon Hills Drive
Segment: Railroad Canyon Road to Lost Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.31	8.07	4.11	19.27	2.03	-1.92
Distance	-12.57	-12.57	-12.57	-12.57	-12.57	-12.57
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	29000.00
SPEED	45.00
DISTANCE	339.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Canyon Hills Drive
Segment: Lost Road to Cottonwood Canyon Road

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	67.36
ADJUSTMENTS							DAY LEQ	65.43
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	64.39	55.43	55.99	58.35	49.39	49.95	GRADE dB	0.00

DAY LEQ 65.43 NIGHT LEQ 59.39

LDN 67.4

Roadway: Canyon Hills Drive
Segment: Lost Road to Cottonwood Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	66.20
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Canyon Hills Drive
Segment: Lost Road to Cottonwood Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	142.60
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-6.93	-6.93	-6.93	-6.93	-6.93	-6.93		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Canyon Hills Drive
Segment: Lost Road to Cottonwood Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	307.10
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-11.93	-11.93	-11.93	-11.93	-11.93	-11.93		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Canyon Hills Drive
Segment: Cottonwood Canyon Rd to E of Cottonwood Canyon Rd

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1356.09	25.61	10.30	337.72	6.38	2.57
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.48	7.25	3.29	18.45	1.21	-2.75
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	64.21	55.25	55.81	58.17	49.21	49.77

DAY LEQ 65.25 NIGHT LEQ 59.22

LDN 67.2

ADT	24000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	67.18
DAY LEQ	65.25
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Canyon Hills Drive
Segment: Cottonwood Canyon Rd to E of Cottonwood Canyon Rd
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1356.09	25.61	10.30	337.72	6.38	2.57
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.48	7.25	3.29	18.45	1.21	-2.75
Distance	-1.75	-1.75	-1.75	-1.75	-1.75	-1.75
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.12	58.68	61.04	52.08	52.64

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	24000.00
SPEED	45.00
DISTANCE	64.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Canyon Hills Drive
Segment: Cottonwood Canyon Rd to E of Cottonwood Canyon Rd
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1356.09	25.61	10.30	337.72	6.38	2.57
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.48	7.25	3.29	18.45	1.21	-2.75
Distance	-6.75	-6.75	-6.75	-6.75	-6.75	-6.75
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	24000.00
SPEED	40.00
DISTANCE	138.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Canyon Hills Drive
Segment: ttonwood Canyon Rd to E of Cottonwood Canyon
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1356.09	25.61	10.30	337.72	6.38	2.57
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.48	7.25	3.29	18.45	1.21	-2.75
Distance	-11.75	-11.75	-11.75	-11.75	-11.75	-11.75
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	24000.00
SPEED	45.00
DISTANCE	298.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Casino Drive
Segment: Diamond Drive to I-15 SB Ramps

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	38000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2147.14	40.55	16.31	534.73	10.10	4.06	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	67.90
ADJUSTMENTS							DAY LEQ	65.97
Flow	26.99	9.75	5.80	20.95	3.72	-0.24		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	64.73	56.45	57.34	58.69	50.41	51.30	GRADE dB	0.00

DAY LEQ 65.97 NIGHT LEQ 59.93

LDN 67.9

Roadway: Casino Drive
Segment: Diamond Drive to I-15 SB Ramps
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	38000.00
							SPEED	40.00
-							DISTANCE	71.90
INPUT PARAMETERS								
Vehicles per hour	2147.14	40.55	16.31	534.73	10.10	4.06	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	26.99	9.75	5.80	20.95	3.72	-0.24		
Distance	-2.47	-2.47	-2.47	-2.47	-2.47	-2.47		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.88	58.60	59.49	60.84	52.56	53.45	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Casino Drive
Segment: Diamond Drive to I-15 SB Ramps
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	38000.00
							SPEED	40.00
-							DISTANCE	154.90
INPUT PARAMETERS								
Vehicles per hour	2147.14	40.55	16.31	534.73	10.10	4.06	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	26.99	9.75	5.80	20.95	3.72	-0.24		
Distance	-7.47	-7.47	-7.47	-7.47	-7.47	-7.47		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.60	54.49	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Casino Drive
Segment: Diamond Drive to I-15 SB Ramps
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	38000.00
							SPEED	40.00
-							DISTANCE	333.70
INPUT PARAMETERS								
Vehicles per hour	2147.14	40.55	16.31	534.73	10.10	4.06	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	26.99	9.75	5.80	20.95	3.72	-0.24		
Distance	-12.47	-12.47	-12.47	-12.47	-12.47	-12.47		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.60	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Casino Drive
Segment: I-15 SB Ramps to Malaga Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	60.07	51.79	52.68	54.04	45.75	46.64

ADT	13000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	63.24
DAY LEQ	61.31
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 61.31 NIGHT LEQ 55.28

LDN 63.2

Roadway: Casino Drive
Segment: I-15 SB Ramps to Malaga Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90
Distance	2.18	2.18	2.18	2.18	2.18	2.18
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.88	58.59	59.48	60.84	52.55	53.44

ADT	13000.00
SPEED	40.00
DISTANCE	35.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Casino Drive
Segment: I-15 SB Ramps to Malaga Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90
Distance	-2.82	-2.82	-2.82	-2.82	-2.82	-2.82
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.56	48.45

ADT	13000.00
SPEED	40.00
DISTANCE	75.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Casino Drive
Segment: I-15 SB Ramps to Malaga Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90
Distance	-7.82	-7.82	-7.82	-7.82	-7.82	-7.82
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.48	50.84	42.56	43.45

ADT	13000.00
SPEED	40.00
DISTANCE	163.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Central Avenue
Segment: N. of Collier Avenue to Collier Avenue

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7000.00
							SPEED	35.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	59.15
ADJUSTMENTS							DAY LEQ	57.22
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	55.71	48.19	49.46	49.68	42.16	43.42	GRADE dB	0.00

DAY LEQ 57.22 NIGHT LEQ 51.18

LDN 59.1

Roadway: Central Avenue
Segment: N. of Collier Avenue to Collier Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7000.00
							SPEED	35.00
-							DISTANCE	18.80
INPUT PARAMETERS								
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	70.03
ADJUSTMENTS							DAY LEQ	68.11
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01		
Distance	6.27	6.27	6.27	6.27	6.27	6.27		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.60	59.08	60.34	60.56	53.04	54.31	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Central Avenue
Segment: N. of Collier Avenue to Collier Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7000.00
							SPEED	35.00
-							DISTANCE	40.50
INPUT PARAMETERS								
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.03
ADJUSTMENTS							DAY LEQ	63.11
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01		
Distance	1.27	1.27	1.27	1.27	1.27	1.27		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.60	54.08	55.34	55.57	48.05	49.31	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.07

LDN 65.0

Roadway: Central Avenue
Segment: N. of Collier Avenue to Collier Avenue
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7000.00
							SPEED	35.00
-							DISTANCE	87.10
INPUT PARAMETERS								
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01		
Distance	-3.72	-3.72	-3.72	-3.72	-3.72	-3.72		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.61	49.09	50.36	50.58	43.06	44.32	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Central Avenue
Segment: Collier Avenue to I-15 SB Ramps

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3390.22	64.03	25.75	844.31	15.95	6.41
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.46	11.23	7.27	22.43	5.19	1.23
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	68.19	59.23	59.79	62.15	53.19	53.75

ADT	60000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	71.16
DAY LEQ	69.23
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 69.23 NIGHT LEQ 63.19

LDN 71.2

Roadway: Central Avenue
Segment: Collier Avenue to I-15 SB Ramps
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3390.22	64.03	25.75	844.31	15.95	6.41
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.46	11.23	7.27	22.43	5.19	1.23
Distance	-5.73	-5.73	-5.73	-5.73	-5.73	-5.73
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.12	58.68	61.04	52.08	52.64

ADT	60000.00
SPEED	45.00
DISTANCE	118.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Central Avenue
Segment: Collier Avenue to I-15 SB Ramps
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3390.22	64.03	25.75	844.31	15.95	6.41
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.46	11.23	7.27	22.43	5.19	1.23
Distance	-10.73	-10.73	-10.73	-10.73	-10.73	-10.73
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

ADT	60000.00
SPEED	45.00
DISTANCE	255.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Central Avenue
Segment: Collier Avenue to I-15 SB Ramps
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3390.22	64.03	25.75	844.31	15.95	6.41
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.46	11.23	7.27	22.43	5.19	1.23
Distance	-15.73	-15.73	-15.73	-15.73	-15.73	-15.73
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	60000.00
SPEED	45.00
DISTANCE	550.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Central Avenue
Segment: I-15 SB Ramps to I-15 NB Ramps

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3164.20	59.76	24.04	788.02	14.88	5.99
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.16	10.93	6.97	22.13	4.89	0.93
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.89	58.93	59.49	61.85	52.89	53.45

ADT	56000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.86
DAY LEQ	68.93
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.93 NIGHT LEQ 62.90

LDN 70.9

Roadway: Central Avenue
Segment: I-15 SB Ramps to I-15 NB Ramps
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3164.20	59.76	24.04	788.02	14.88	5.99
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.16	10.93	6.97	22.13	4.89	0.93
Distance	-5.43	-5.43	-5.43	-5.43	-5.43	-5.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.11	58.68	61.04	52.08	52.64

ADT	56000.00
SPEED	45.00
DISTANCE	113.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Central Avenue
Segment: I-15 SB Ramps to I-15 NB Ramps
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3164.20	59.76	24.04	788.02	14.88	5.99
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.16	10.93	6.97	22.13	4.89	0.93
Distance	-10.43	-10.43	-10.43	-10.43	-10.43	-10.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

ADT	56000.00
SPEED	40.00
DISTANCE	244.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Central Avenue
Segment: I-15 SB Ramps to I-15 NB Ramps
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3164.20	59.76	24.04	788.02	14.88	5.99
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.16	10.93	6.97	22.13	4.89	0.93
Distance	-15.43	-15.43	-15.43	-15.43	-15.43	-15.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	56000.00
SPEED	45.00
DISTANCE	525.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Central Avenue
Segment: I-15 NB Ramps to Dexter Avenue

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3164.20	59.76	24.04	788.02	14.88	5.99
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.16	10.93	6.97	22.13	4.89	0.93
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.89	58.93	59.49	61.85	52.89	53.45

DAY LEQ 68.93 NIGHT LEQ 62.90

LDN 70.9

ADT	56000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.86
DAY LEQ	68.93
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Central Avenue
Segment: I-15 NB Ramps to Dexter Avenue
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3164.20	59.76	24.04	788.02	14.88	5.99
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.16	10.93	6.97	22.13	4.89	0.93
Distance	-5.43	-5.43	-5.43	-5.43	-5.43	-5.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.11	58.68	61.04	52.08	52.64

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	56000.00
SPEED	45.00
DISTANCE	113.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Central Avenue
Segment: I-15 NB Ramps to Dexter Avenue
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3164.20	59.76	24.04	788.02	14.88	5.99
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.16	10.93	6.97	22.13	4.89	0.93
Distance	-10.43	-10.43	-10.43	-10.43	-10.43	-10.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	56000.00
SPEED	45.00
DISTANCE	244.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Central Avenue
Segment: I-15 NB Ramps to Dexter Avenue
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3164.20	59.76	24.04	788.02	14.88	5.99
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.16	10.93	6.97	22.13	4.89	0.93
Distance	-15.43	-15.43	-15.43	-15.43	-15.43	-15.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	56000.00
SPEED	45.00
DISTANCE	525.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Central Avenue
Segment: Dexter Avenue to Cambern Avenue

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	46000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2599.17	49.09	19.74	647.30	12.23	4.92	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.01
ADJUSTMENTS							DAY LEQ	68.08
Flow	27.31	10.07	6.12	21.27	4.03	0.08		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.03	58.07	58.64	61.00	52.04	52.60	GRADE dB	0.00

DAY LEQ 68.08 NIGHT LEQ 62.04

LDN 70.0

Roadway: Central Avenue
Segment: Dexter Avenue to Cambern Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	46000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2599.17	49.09	19.74	647.30	12.23	4.92	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.01
ADJUSTMENTS							DAY LEQ	68.08
Flow	27.31	10.07	6.12	21.27	4.03	0.08		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.03	58.07	58.64	61.00	52.04	52.60	GRADE dB	0.00

DAY LEQ 68.08 NIGHT LEQ 62.04

LDN 70.0

Roadway: Central Avenue
Segment: Dexter Avenue to Cambern Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	46000.00
							SPEED	45.00
-							DISTANCE	214.10
INPUT PARAMETERS								
Vehicles per hour	2599.17	49.09	19.74	647.30	12.23	4.92	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	27.31	10.07	6.12	21.27	4.03	0.08		
Distance	-9.58	-9.58	-9.58	-9.58	-9.58	-9.58		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Central Avenue
Segment: Dexter Avenue to Cambern Avenue
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	46000.00
							SPEED	45.00
-							DISTANCE	461.10
INPUT PARAMETERS								
Vehicles per hour	2599.17	49.09	19.74	647.30	12.23	4.92	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	27.31	10.07	6.12	21.27	4.03	0.08		
Distance	-14.58	-14.58	-14.58	-14.58	-14.58	-14.58		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Central Avenue
Segment: Cambern Avenue to Conard Avenue

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	58000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	3277.21	61.90	24.89	816.16	15.42	6.20	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	71.01
ADJUSTMENTS							DAY LEQ	69.08
Flow	28.32	11.08	7.12	22.28	5.04	1.09		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	68.04	59.08	59.64	62.00	53.04	53.61	GRADE dB	0.00

DAY LEQ 69.08 NIGHT LEQ 63.05

LDN 71.0

Roadway: Central Avenue
Segment: Cambern Avenue to Conard Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	58000.00
							SPEED	45.00
-							DISTANCE	116.00
INPUT PARAMETERS								
Vehicles per hour	3277.21	61.90	24.89	816.16	15.42	6.20	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	28.32	11.08	7.12	22.28	5.04	1.09		
Distance	-5.59	-5.59	-5.59	-5.59	-5.59	-5.59		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Central Avenue
Segment: Cambern Avenue to Conard Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	58000.00
							SPEED	45.00
-							DISTANCE	249.80
INPUT PARAMETERS								
Vehicles per hour	3277.21	61.90	24.89	816.16	15.42	6.20	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	28.32	11.08	7.12	22.28	5.04	1.09		
Distance	-10.58	-10.58	-10.58	-10.58	-10.58	-10.58		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Central Avenue
Segment: Cambern Avenue to Conard Avenue
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	58000.00
							SPEED	45.00
-							DISTANCE	538.20
INPUT PARAMETERS								
Vehicles per hour	3277.21	61.90	24.89	816.16	15.42	6.20	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	28.32	11.08	7.12	22.28	5.04	1.09		
Distance	-15.58	-15.58	-15.58	-15.58	-15.58	-15.58		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Central Avenue
Segment: Conard Avenue to Rosetta Canyon

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2712.17	51.23	20.60	675.45	12.76	5.13
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.04	9.80	5.84	21.00	3.76	-0.19
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	68.54	58.97	59.24	62.50	52.94	53.21

ADT	48000.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	71.36
DAY LEQ	69.43
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 69.43 NIGHT LEQ 63.39

LDN 71.4

Roadway: Central Avenue
Segment: Conard Avenue to Rosetta Canyon
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2712.17	51.23	20.60	675.45	12.76	5.13
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.04	9.80	5.84	21.00	3.76	-0.19
Distance	-5.93	-5.93	-5.93	-5.93	-5.93	-5.93
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.23	57.66	57.93	61.19	51.62	51.89

ADT	48000.00
SPEED	50.00
DISTANCE	122.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Central Avenue
Segment: Conard Avenue to Rosetta Canyon
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2712.17	51.23	20.60	675.45	12.76	5.13
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.04	9.80	5.84	21.00	3.76	-0.19
Distance	-10.93	-10.93	-10.93	-10.93	-10.93	-10.93
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.63	46.90

ADT	48000.00
SPEED	50.00
DISTANCE	263.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Central Avenue
Segment: Conard Avenue to Rosetta Canyon
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2712.17	51.23	20.60	675.45	12.76	5.13
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.04	9.80	5.84	21.00	3.76	-0.19
Distance	-15.93	-15.93	-15.93	-15.93	-15.93	-15.93
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

ADT	48000.00
SPEED	50.00
DISTANCE	567.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Central Avenue
Segment: Rosetta Canyon to Riverside Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2881.68	54.43	21.89	717.66	13.55	5.45
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.30	10.06	6.11	21.26	4.03	0.07
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	68.80	59.24	59.51	62.76	53.20	53.47

ADT	51000.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	71.62
DAY LEQ	69.69
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 69.69 NIGHT LEQ 63.66

LDN 71.6

Roadway: Central Avenue
Segment: Rosetta Canyon to Riverside Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2881.68	54.43	21.89	717.66	13.55	5.45
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.30	10.06	6.11	21.26	4.03	0.07
Distance	-6.19	-6.19	-6.19	-6.19	-6.19	-6.19
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.23	57.66	57.93	61.19	51.63	51.90

ADT	51000.00
SPEED	50.00
DISTANCE	127.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Central Avenue
Segment: Rosetta Canyon to Riverside Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2881.68	54.43	21.89	717.66	13.55	5.45
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.30	10.06	6.11	21.26	4.03	0.07
Distance	-11.19	-11.19	-11.19	-11.19	-11.19	-11.19
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.63	46.90

ADT	51000.00
SPEED	50.00
DISTANCE	274.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Central Avenue
Segment: Rosetta Canyon to Riverside Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2881.68	54.43	21.89	717.66	13.55	5.45
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.30	10.06	6.11	21.26	4.03	0.07
Distance	-16.19	-16.19	-16.19	-16.19	-16.19	-16.19
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

ADT	51000.00
SPEED	50.00
DISTANCE	590.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Collier Avenue
Segment: Nichols Road to Riverside Drive

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.65	6.41	2.46	17.61	0.37	-3.58
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	65.15	55.58	55.85	59.11	49.55	49.82

ADT	22000.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	67.97
DAY LEQ	66.04
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 66.04 NIGHT LEQ 60.00

LDN 68.0

Roadway: Collier Avenue
Segment: Nichols Road to Riverside Drive
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.65	6.41	2.46	17.61	0.37	-3.58
Distance	-2.54	-2.54	-2.54	-2.54	-2.54	-2.54
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.23	57.66	57.93	61.19	51.62	51.89

ADT	22000.00
SPEED	50.00
DISTANCE	72.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Collier Avenue
Segment: Nichols Road to Riverside Drive
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.65	6.41	2.46	17.61	0.37	-3.58
Distance	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.63	46.90

ADT	22000.00
SPEED	50.00
DISTANCE	156.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Collier Avenue
Segment: Nichols Road to Riverside Drive
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.65	6.41	2.46	17.61	0.37	-3.58
Distance	-12.54	-12.54	-12.54	-12.54	-12.54	-12.54
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

ADT	22000.00
SPEED	50.00
DISTANCE	337.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Collier Avenue
Segment: Riverside Drive to Enterprise Way

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2881.68	54.43	21.89	717.66	13.55	5.45
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.30	10.06	6.11	21.26	4.03	0.07
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	68.80	59.24	59.51	62.76	53.20	53.47

ADT	51000.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	71.62
DAY LEQ	69.69
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 69.69 NIGHT LEQ 63.66

LDN 71.6

Roadway: Collier Avenue
Segment: Riverside Drive to Enterprise Way
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2881.68	54.43	21.89	717.66	13.55	5.45
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.30	10.06	6.11	21.26	4.03	0.07
Distance	-6.19	-6.19	-6.19	-6.19	-6.19	-6.19
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.23	57.66	57.93	61.19	51.63	51.90

ADT	51000.00
SPEED	50.00
DISTANCE	127.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Collier Avenue
Segment: Riverside Drive to Enterprise Way
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2881.68	54.43	21.89	717.66	13.55	5.45
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.30	10.06	6.11	21.26	4.03	0.07
Distance	-11.19	-11.19	-11.19	-11.19	-11.19	-11.19
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.63	46.90

ADT	51000.00
SPEED	50.00
DISTANCE	274.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Collier Avenue
Segment: Riverside Drive to Enterprise Way
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2881.68	54.43	21.89	717.66	13.55	5.45
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.30	10.06	6.11	21.26	4.03	0.07
Distance	-16.19	-16.19	-16.19	-16.19	-16.19	-16.19
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

ADT	51000.00
SPEED	50.00
DISTANCE	590.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Collier Avenue
Segment: Enterprise Way to Central Avenue

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3107.70	58.70	23.61	773.95	14.62	5.88
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.63	10.39	6.43	21.59	4.35	0.40
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	69.13	59.56	59.83	63.09	53.53	53.80

ADT	55000.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	71.95
DAY LEQ	70.02
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 70.02 NIGHT LEQ 63.98

LDN 71.9

Roadway: Collier Avenue
Segment: Enterprise Way to Central Avenue
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3107.70	58.70	23.61	773.95	14.62	5.88
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.63	10.39	6.43	21.59	4.35	0.40
Distance	-6.52	-6.52	-6.52	-6.52	-6.52	-6.52
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.23	57.66	57.93	61.19	51.62	51.90

ADT	55000.00
SPEED	50.00
DISTANCE	133.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Collier Avenue
Segment: Enterprise Way to Central Avenue
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3107.70	58.70	23.61	773.95	14.62	5.88
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.63	10.39	6.43	21.59	4.35	0.40
Distance	-11.52	-11.52	-11.52	-11.52	-11.52	-11.52
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.63	46.90

ADT	55000.00
SPEED	40.00
DISTANCE	288.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Collier Avenue
Segment: Enterprise Way to Central Avenue
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3107.70	58.70	23.61	773.95	14.62	5.88
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.63	10.39	6.43	21.59	4.35	0.40
Distance	-16.52	-16.52	-16.52	-16.52	-16.52	-16.52
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

ADT	55000.00
SPEED	50.00
DISTANCE	621.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Collier Avenue
Segment: Central Avenue to Chaney Street

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.65	6.41	2.46	17.61	0.37	-3.58
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	65.15	55.58	55.85	59.11	49.55	49.82

ADT	22000.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	67.97
DAY LEQ	66.04
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 66.04 NIGHT LEQ 60.00

LDN 68.0

Roadway: Collier Avenue
Segment: Central Avenue to Chaney Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.65	6.41	2.46	17.61	0.37	-3.58
Distance	-2.54	-2.54	-2.54	-2.54	-2.54	-2.54
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.23	57.66	57.93	61.19	51.62	51.89

ADT	22000.00
SPEED	50.00
DISTANCE	72.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Collier Avenue
Segment: Central Avenue to Chaney Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.65	6.41	2.46	17.61	0.37	-3.58
Distance	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.63	46.90

ADT	22000.00
SPEED	50.00
DISTANCE	156.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Collier Avenue
Segment: Central Avenue to Chaney Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.65	6.41	2.46	17.61	0.37	-3.58
Distance	-12.54	-12.54	-12.54	-12.54	-12.54	-12.54
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

ADT	22000.00
SPEED	50.00
DISTANCE	337.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Collier Avenue
Segment: Via Scenica to Summerhill Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	22.53	5.29	1.34	16.49	-0.75	-4.70
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	64.03	54.46	54.74	57.99	48.43	48.70

ADT	17000.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	66.85
DAY LEQ	64.92
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 64.92 NIGHT LEQ 58.88

LDN 66.9

Roadway: Collier Avenue
Segment: Via Scenica to Summerhill Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	22.53	5.29	1.34	16.49	-0.75	-4.70
Distance	-1.42	-1.42	-1.42	-1.42	-1.42	-1.42
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.23	57.66	57.93	61.19	51.63	51.90

ADT	17000.00
SPEED	50.00
DISTANCE	61.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Collier Avenue
Segment: Via Scenica to Summerhill Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	22.53	5.29	1.34	16.49	-0.75	-4.70
Distance	-6.42	-6.42	-6.42	-6.42	-6.42	-6.42
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.62	46.89

ADT	17000.00
SPEED	50.00
DISTANCE	131.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Collier Avenue
Segment: Via Scenica to Summerhill Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	22.53	5.29	1.34	16.49	-0.75	-4.70
Distance	-11.42	-11.42	-11.42	-11.42	-11.42	-11.42
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

ADT	17000.00
SPEED	50.00
DISTANCE	284.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Conard Avenue
Segment: Rosarita Drive to Central Avenue

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.96	5.72	1.76	16.92	-0.32	-4.28
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	60.69	52.41	53.30	54.66	46.37	47.26

DAY LEQ 61.94 NIGHT LEQ 55.90

LDN 63.9

ADT	15000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	63.86
DAY LEQ	61.94
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Conard Avenue
Segment: Rosarita Drive to Central Avenue
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.96	5.72	1.76	16.92	-0.32	-4.28
Distance	1.56	1.56	1.56	1.56	1.56	1.56
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.88	58.59	59.48	60.84	52.56	53.45

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	15000.00
SPEED	40.00
DISTANCE	38.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Conard Avenue
Segment: Rosarita Drive to Central Avenue
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.96	5.72	1.76	16.92	-0.32	-4.28
Distance	-3.44	-3.44	-3.44	-3.44	-3.44	-3.44
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.55	48.45

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	15000.00
SPEED	40.00
DISTANCE	83.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Conard Avenue
Segment: Rosarita Drive to Central Avenue
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.96	5.72	1.76	16.92	-0.32	-4.28
Distance	-8.44	-8.44	-8.44	-8.44	-8.44	-8.44
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.49	50.84	42.56	43.45

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	15000.00
SPEED	40.00
DISTANCE	179.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Corydon Street
Segment: Grand Avenue to Palomar Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	37000.00
-							SPEED	40.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2090.63	39.49	15.88	520.66	9.83	3.95	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	67.78
ADJUSTMENTS							DAY LEQ	65.86
Flow	26.88	9.64	5.68	20.84	3.60	-0.36		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	64.62	56.33	57.22	58.58	50.29	51.18	GRADE dB	0.00

DAY LEQ 65.86 NIGHT LEQ 59.82

LDN 67.8

Roadway: Corydon Street
Segment: Grand Avenue to Palomar Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	37000.00
-							SPEED	40.00
							DISTANCE	70.70
INPUT PARAMETERS								
Vehicles per hour	2090.63	39.49	15.88	520.66	9.83	3.95	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	26.88	9.64	5.68	20.84	3.60	-0.36		
Distance	-2.36	-2.36	-2.36	-2.36	-2.36	-2.36		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.87	58.59	59.48	60.84	52.55	53.44	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Corydon Street
Segment: Grand Avenue to Palomar Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	37000.00
-							SPEED	40.00
							DISTANCE	152.20
INPUT PARAMETERS								
Vehicles per hour	2090.63	39.49	15.88	520.66	9.83	3.95	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	26.88	9.64	5.68	20.84	3.60	-0.36		
Distance	-7.36	-7.36	-7.36	-7.36	-7.36	-7.36		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Corydon Street
Segment: Grand Avenue to Palomar Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	37000.00
-							SPEED	40.00
							DISTANCE	327.90
INPUT PARAMETERS								
Vehicles per hour	2090.63	39.49	15.88	520.66	9.83	3.95	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	26.88	9.64	5.68	20.84	3.60	-0.36		
Distance	-12.36	-12.36	-12.36	-12.36	-12.36	-12.36		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Greenwald Avenue
Segment: Palomar Street to Diamond Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	43000.00
							SPEED	40.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2429.65	45.89	18.46	605.09	11.43	4.60	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	68.44
ADJUSTMENTS							DAY LEQ	66.51
Flow	27.53	10.29	6.33	21.49	4.25	0.30		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	65.27	56.98	57.87	59.23	50.95	51.84	GRADE dB	0.00

DAY LEQ 66.51 NIGHT LEQ 60.47

LDN 68.4

Roadway: Greenwald Avenue
Segment: Palomar Street to Diamond Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	43000.00
							SPEED	40.00
							DISTANCE	78.10
INPUT PARAMETERS								
Vehicles per hour	2429.65	45.89	18.46	605.09	11.43	4.60	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	27.53	10.29	6.33	21.49	4.25	0.30		
Distance	-3.01	-3.01	-3.01	-3.01	-3.01	-3.01		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.88	58.59	59.48	60.84	52.56	53.45	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Greenwald Avenue
Segment: Palomar Street to Diamond Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	43000.00
							SPEED	40.00
							DISTANCE	168.20
INPUT PARAMETERS								
Vehicles per hour	2429.65	45.89	18.46	605.09	11.43	4.60	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	27.53	10.29	6.33	21.49	4.25	0.30		
Distance	-8.01	-8.01	-8.01	-8.01	-8.01	-8.01		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.60	54.49	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Greenwald Avenue
Segment: Palomar Street to Diamond Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	43000.00
							SPEED	40.00
							DISTANCE	362.40
INPUT PARAMETERS								
Vehicles per hour	2429.65	45.89	18.46	605.09	11.43	4.60	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	27.53	10.29	6.33	21.49	4.25	0.30		
Distance	-13.01	-13.01	-13.01	-13.01	-13.01	-13.01		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.60	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Greenwald Avenue
Segment: 3rd Street to 2nd Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	621.54	11.74	4.72	154.79	2.92	1.18
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.61	4.37	0.41	15.57	-1.67	-5.62
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	59.35	51.06	51.95	53.31	45.02	45.92

ADT	11000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	62.52
DAY LEQ	60.59
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 60.59 NIGHT LEQ 54.55

LDN 62.5

Roadway: Greenwald Avenue
Segment: 3rd Street to 2nd Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	621.54	11.74	4.72	154.79	2.92	1.18
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.61	4.37	0.41	15.57	-1.67	-5.62
Distance	2.90	2.90	2.90	2.90	2.90	2.90
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.87	58.59	59.48	60.84	52.55	53.44

ADT	11000.00
SPEED	40.00
DISTANCE	31.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Greenwald Avenue
Segment: 3rd Street to 2nd Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	621.54	11.74	4.72	154.79	2.92	1.18
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.61	4.37	0.41	15.57	-1.67	-5.62
Distance	-2.09	-2.09	-2.09	-2.09	-2.09	-2.09
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.56	48.45

ADT	11000.00
SPEED	40.00
DISTANCE	67.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Greenwald Avenue
Segment: 3rd Street to 2nd Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	621.54	11.74	4.72	154.79	2.92	1.18
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.61	4.37	0.41	15.57	-1.67	-5.62
Distance	-7.09	-7.09	-7.09	-7.09	-7.09	-7.09
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.48	50.84	42.56	43.45

ADT	11000.00
SPEED	40.00
DISTANCE	146.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: De Palma Road
Segment: N of Indian Truck Trail to Indian Truck Trail

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	59.09
ADJUSTMENTS							DAY LEQ	57.16
Flow	18.18	0.95	-3.01	12.15	-5.09	-9.05		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	55.92	47.64	48.53	49.89	41.60	42.49	GRADE dB	0.00

DAY LEQ 57.16 NIGHT LEQ 51.13

LDN 59.1

Roadway: De Palma Road
Segment: N of Indian Truck Trail to Indian Truck Trail
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5000.00
							SPEED	40.00
-							DISTANCE	18.60
INPUT PARAMETERS								
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	18.18	0.95	-3.01	12.15	-5.09	-9.05		
Distance	6.34	6.34	6.34	6.34	6.34	6.34		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.88	58.60	59.49	60.84	52.56	53.45	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: De Palma Road
Segment: N of Indian Truck Trail to Indian Truck Trail
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5000.00
							SPEED	40.00
-							DISTANCE	40.10
INPUT PARAMETERS								
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.12
Flow	18.18	0.95	-3.01	12.15	-5.09	-9.05		
Distance	1.33	1.33	1.33	1.33	1.33	1.33		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.55	48.44	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: De Palma Road
Segment: N of Indian Truck Trail to Indian Truck Trail
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5000.00
							SPEED	40.00
-							DISTANCE	86.40
INPUT PARAMETERS								
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.04
ADJUSTMENTS							DAY LEQ	58.12
Flow	18.18	0.95	-3.01	12.15	-5.09	-9.05		
Distance	-3.67	-3.67	-3.67	-3.67	-3.67	-3.67		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.48	50.84	42.55	43.44	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: De Palma Road
Segment: Indian Truck Trail to S of Indian Truck Trail

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	621.54	11.74	4.72	154.79	2.92	1.18
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.61	4.37	0.41	15.57	-1.67	-5.62
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	59.35	51.06	51.95	53.31	45.02	45.92

ADT	11000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	62.52
DAY LEQ	60.59
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 60.59 NIGHT LEQ 54.55

LDN 62.5

Roadway: De Palma Road
Segment: Indian Truck Trail to S of Indian Truck Trail
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	621.54	11.74	4.72	154.79	2.92	1.18
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.61	4.37	0.41	15.57	-1.67	-5.62
Distance	2.90	2.90	2.90	2.90	2.90	2.90
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.87	58.59	59.48	60.84	52.55	53.44

ADT	11000.00
SPEED	40.00
DISTANCE	31.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: De Palma Road
Segment: Indian Truck Trail to S of Indian Truck Trail
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	621.54	11.74	4.72	154.79	2.92	1.18
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.61	4.37	0.41	15.57	-1.67	-5.62
Distance	-2.09	-2.09	-2.09	-2.09	-2.09	-2.09
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.56	48.45

ADT	11000.00
SPEED	40.00
DISTANCE	67.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: De Palma Road
Segment: Indian Truck Trail to S of Indian Truck Trail
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	621.54	11.74	4.72	154.79	2.92	1.18
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.61	4.37	0.41	15.57	-1.67	-5.62
Distance	-7.09	-7.09	-7.09	-7.09	-7.09	-7.09
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.48	50.84	42.56	43.45

ADT	11000.00
SPEED	40.00
DISTANCE	146.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: De Palma Road
Segment: N of Horsethief Canyon Road to Horsethief Canyon Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	15.97	-1.27	-5.23	9.93	-7.31	-11.27
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	53.70	45.42	46.31	47.67	39.38	40.27

ADT	3000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	56.87
DAY LEQ	54.95
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 54.95 NIGHT LEQ 48.91

LDN 56.9

Roadway: De Palma Road
Segment: N of Horsethief Canyon Road to Horsethief Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	15.97	-1.27	-5.23	9.93	-7.31	-11.27
Distance	8.52	8.52	8.52	8.52	8.52	8.52
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.85	58.56	59.45	60.81	52.52	53.42

ADT	3000.00
SPEED	40.00
DISTANCE	13.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.02
DAY LEQ	68.09
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.09 NIGHT LEQ 62.05

LDN 70.0

Roadway: De Palma Road
Segment: N of Horsethief Canyon Road to Horsethief Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	15.97	-1.27	-5.23	9.93	-7.31	-11.27
Distance	3.53	3.53	3.53	3.53	3.53	3.53
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.86	53.57	54.46	55.82	47.54	48.43

ADT	3000.00
SPEED	40.00
DISTANCE	28.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.03
DAY LEQ	63.10
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.10 NIGHT LEQ 57.06

LDN 65.0

Roadway: De Palma Road
Segment: N of Horsethief Canyon Road to Horsethief Canyon Rc
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	15.97	-1.27	-5.23	9.93	-7.31	-11.27
Distance	-1.45	-1.45	-1.45	-1.45	-1.45	-1.45
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.87	48.59	49.48	50.83	42.55	43.44

ADT	3000.00
SPEED	40.00
DISTANCE	61.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.04
DAY LEQ	58.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.11 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Diamond Drive
Segment: Interstate 15 to Auto Center Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2599.17	49.09	19.74	647.30	12.23	4.92
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	29.07	11.83	7.88	23.03	5.80	1.84
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.96	55.33	57.02	55.93	49.29	50.98

ADT	46000.00
SPEED	30.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.76
DAY LEQ	63.83
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.83 NIGHT LEQ 57.79

LDN 65.8

Roadway: Diamond Drive
Segment: Interstate 15 to Auto Center Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2599.17	49.09	19.74	647.30	12.23	4.92
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	29.07	11.83	7.88	23.03	5.80	1.84
Distance	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.25	59.61	61.30	60.21	53.57	55.27

ADT	46000.00
SPEED	30.10
DISTANCE	51.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Diamond Drive
Segment: Interstate 15 to Auto Center Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2599.17	49.09	19.74	647.30	12.23	4.92
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	29.07	11.83	7.88	23.03	5.80	1.84
Distance	-5.33	-5.33	-5.33	-5.33	-5.33	-5.33
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.25	54.62	56.31	55.22	48.58	50.27

ADT	46000.00
SPEED	30.00
DISTANCE	111.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Diamond Drive
Segment: Interstate 15 to Auto Center Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2599.17	49.09	19.74	647.30	12.23	4.92
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	29.07	11.83	7.88	23.03	5.80	1.84
Distance	-10.33	-10.33	-10.33	-10.33	-10.33	-10.33
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.25	49.62	51.31	50.22	43.58	45.27

ADT	46000.00
SPEED	30.00
DISTANCE	240.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Diamond Drive
Segment: Auto Center Drive to Mission Trail

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2881.68	54.43	21.89	717.66	13.55	5.45
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	29.52	12.28	8.33	23.48	6.24	2.29
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.41	55.77	57.47	56.37	49.74	51.43

DAY LEQ 64.28 NIGHT LEQ 58.24

LDN 66.2

ADT	51000.00
SPEED	30.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	66.21
DAY LEQ	64.28
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Diamond Drive
Segment: Auto Center Drive to Mission Trail
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2881.68	54.43	21.89	717.66	13.55	5.45
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	29.52	12.28	8.33	23.48	6.24	2.29
Distance	-0.78	-0.78	-0.78	-0.78	-0.78	-0.78
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.25	59.61	61.30	60.21	53.57	55.26

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

ADT	51000.00
SPEED	30.00
DISTANCE	55.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Diamond Drive
Segment: Auto Center Drive to Mission Trail
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2881.68	54.43	21.89	717.66	13.55	5.45
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	29.52	12.28	8.33	23.48	6.24	2.29
Distance	-5.78	-5.78	-5.78	-5.78	-5.78	-5.78
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.25	54.61	56.30	55.21	48.58	50.27

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	51000.00
SPEED	30.00
DISTANCE	119.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Diamond Drive
Segment: Auto Center Drive to Mission Trail
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2881.68	54.43	21.89	717.66	13.55	5.45
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	29.52	12.28	8.33	23.48	6.24	2.29
Distance	-10.78	-10.78	-10.78	-10.78	-10.78	-10.78
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.25	49.62	51.31	50.22	43.58	45.27

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	51000.00
SPEED	30.00
DISTANCE	257.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Diamond Drive
Segment: Mission Trail to Malaga Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	42000.00
							SPEED	35.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2373.15	44.82	18.03	591.01	11.16	4.49	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	66.93
ADJUSTMENTS							DAY LEQ	65.00
Flow	28.01	10.77	6.81	21.97	4.73	0.78		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	63.50	55.98	57.24	57.46	49.94	51.20	GRADE dB	0.00

DAY LEQ 65.00 NIGHT LEQ 58.96

LDN 66.9

Roadway: Diamond Drive
Segment: Mission Trail to Malaga Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	42000.00
							SPEED	35.00
							DISTANCE	62.00
INPUT PARAMETERS								
Vehicles per hour	2373.15	44.82	18.03	591.01	11.16	4.49	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	28.01	10.77	6.81	21.97	4.73	0.78		
Distance	-1.51	-1.51	-1.51	-1.51	-1.51	-1.51		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.61	59.09	60.35	60.57	53.05	54.32	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Diamond Drive
Segment: Mission Trail to Malaga Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	42000.00
							SPEED	40.00
							DISTANCE	133.50
INPUT PARAMETERS								
Vehicles per hour	2373.15	44.82	18.03	591.01	11.16	4.49	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	28.01	10.77	6.81	21.97	4.73	0.78		
Distance	-6.50	-6.50	-6.50	-6.50	-6.50	-6.50		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.61	54.09	55.36	55.58	48.06	49.32	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Diamond Drive
Segment: Mission Trail to Malaga Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	42000.00
							SPEED	35.00
							DISTANCE	287.50
INPUT PARAMETERS								
Vehicles per hour	2373.15	44.82	18.03	591.01	11.16	4.49	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	28.01	10.77	6.81	21.97	4.73	0.78		
Distance	-11.50	-11.50	-11.50	-11.50	-11.50	-11.50		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.62	49.10	50.36	50.58	43.06	44.32	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Diamond Drive
Segment: Malaga Road to Elberta Rd. N

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	29000.00
							SPEED	40.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	66.73
ADJUSTMENTS							DAY LEQ	64.80
Flow	25.82	8.58	4.62	19.78	2.54	-1.41		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	63.56	55.27	56.16	57.52	49.23	50.13	GRADE dB	0.00

DAY LEQ 64.80 NIGHT LEQ 58.76

LDN 66.7

Roadway: Diamond Drive
Segment: Malaga Road to Elberta Rd. N
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	29000.00
							SPEED	40.00
							DISTANCE	60.10
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	25.82	8.58	4.62	19.78	2.54	-1.41		
Distance	-1.30	-1.30	-1.30	-1.30	-1.30	-1.30		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.87	58.59	59.48	60.84	52.55	53.44	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Diamond Drive
Segment: Malaga Road to Elberta Rd. N
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	29000.00
							SPEED	40.00
							DISTANCE	129.40
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.82	8.58	4.62	19.78	2.54	-1.41		
Distance	-6.30	-6.30	-6.30	-6.30	-6.30	-6.30		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Diamond Drive
Segment: Malaga Road to Elberta Rd. N
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	29000.00
							SPEED	40.00
							DISTANCE	278.70
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.82	8.58	4.62	19.78	2.54	-1.41		
Distance	-11.30	-11.30	-11.30	-11.30	-11.30	-11.30		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.60	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Diamond Drive
Segment: Elberta Road N to Elberta Road S

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1525.60	28.81	11.59	379.94	7.18	2.89
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.51	8.27	4.31	19.47	2.23	-1.72
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	63.25	54.96	55.85	57.21	48.92	49.82

ADT	27000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	66.42
DAY LEQ	64.49
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 64.49 NIGHT LEQ 58.45

LDN 66.4

Roadway: Diamond Drive
Segment: Elberta Road N to Elberta Road S
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1525.60	28.81	11.59	379.94	7.18	2.89
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.51	8.27	4.31	19.47	2.23	-1.72
Distance	-0.99	-0.99	-0.99	-0.99	-0.99	-0.99
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.88	58.59	59.48	60.84	52.55	53.44

ADT	27000.00
SPEED	40.00
DISTANCE	57.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Diamond Drive
Segment: Elberta Road N to Elberta Road S
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1525.60	28.81	11.59	379.94	7.18	2.89
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.51	8.27	4.31	19.47	2.23	-1.72
Distance	-5.99	-5.99	-5.99	-5.99	-5.99	-5.99
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.55	48.45

ADT	27000.00
SPEED	40.00
DISTANCE	123.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Diamond Drive
Segment: Elberta Road N to Elberta Road S
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1525.60	28.81	11.59	379.94	7.18	2.89
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.51	8.27	4.31	19.47	2.23	-1.72
Distance	-10.99	-10.99	-10.99	-10.99	-10.99	-10.99
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.48	50.84	42.56	43.45

ADT	27000.00
SPEED	40.00
DISTANCE	265.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Diamond Drive
Segment: Elberta Road S to Olive Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.62	7.38	3.42	18.58	1.34	-2.61
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.36	54.07	54.96	56.32	48.04	48.93

ADT	22000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.53
DAY LEQ	63.60
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.60 NIGHT LEQ 57.56

LDN 65.5

Roadway: Diamond Drive
Segment: Elberta Road S to Olive Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.62	7.38	3.42	18.58	1.34	-2.61
Distance	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.87	58.59	59.48	60.84	52.55	53.44

ADT	22000.00
SPEED	40.00
DISTANCE	50.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Diamond Drive
Segment: Elberta Road S to Olive Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.62	7.38	3.42	18.58	1.34	-2.61
Distance	-5.10	-5.10	-5.10	-5.10	-5.10	-5.10
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.60	54.49	55.84	47.56	48.45

ADT	22000.00
SPEED	40.00
DISTANCE	107.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Diamond Drive
Segment: Elberta Road S to Olive Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.62	7.38	3.42	18.58	1.34	-2.61
Distance	-10.10	-10.10	-10.10	-10.10	-10.10	-10.10
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.60	49.49	50.84	42.56	43.45

ADT	22000.00
SPEED	40.00
DISTANCE	231.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Diamond Drive
Segment: Olive Street to W. of Corydon Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1017.06	19.21	7.73	253.29	4.78	1.92
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.75	6.51	2.55	17.71	0.47	-3.48
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.49	53.20	54.09	55.45	47.16	48.05

ADT	18000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	64.66
DAY LEQ	62.73
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 62.73 NIGHT LEQ 56.69

LDN 64.7

Roadway: Diamond Drive
Segment: Olive Street to W. of Corydon Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1017.06	19.21	7.73	253.29	4.78	1.92
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.75	6.51	2.55	17.71	0.47	-3.48
Distance	0.77	0.77	0.77	0.77	0.77	0.77
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.88	58.59	59.48	60.84	52.56	53.45

ADT	18000.00
SPEED	40.00
DISTANCE	43.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Diamond Drive
Segment: Olive Street to W. of Corydon Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1017.06	19.21	7.73	253.29	4.78	1.92
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.75	6.51	2.55	17.71	0.47	-3.48
Distance	-4.23	-4.23	-4.23	-4.23	-4.23	-4.23
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.55	48.44

ADT	18000.00
SPEED	40.00
DISTANCE	94.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Diamond Drive
Segment: Olive Street to W. of Corydon Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1017.06	19.21	7.73	253.29	4.78	1.92
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	23.75	6.51	2.55	17.71	0.47	-3.48
Distance	-9.23	-9.23	-9.23	-9.23	-9.23	-9.23
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.49	50.84	42.56	43.45

ADT	18000.00
SPEED	40.00
DISTANCE	202.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Diamond Drive
Segment: W. of Corydon Street to Corydon Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	63.86
ADJUSTMENTS							DAY LEQ	61.94
Flow	22.96	5.72	1.76	16.92	-0.32	-4.28		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	60.69	52.41	53.30	54.66	46.37	47.26	GRADE dB	0.00

DAY LEQ 61.94 NIGHT LEQ 55.90

LDN 63.9

Roadway: Diamond Drive
Segment: W. of Corydon Street to Corydon Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15000.00
							SPEED	40.00
-							DISTANCE	38.70
INPUT PARAMETERS								
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	22.96	5.72	1.76	16.92	-0.32	-4.28		
Distance	1.56	1.56	1.56	1.56	1.56	1.56		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.88	58.59	59.48	60.84	52.56	53.45	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Diamond Drive
Segment: W. of Corydon Street to Corydon Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15000.00
							SPEED	40.00
-							DISTANCE	83.40
INPUT PARAMETERS								
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	22.96	5.72	1.76	16.92	-0.32	-4.28		
Distance	-3.44	-3.44	-3.44	-3.44	-3.44	-3.44		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.55	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Diamond Drive
Segment: W. of Corydon Street to Corydon Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15000.00
							SPEED	40.00
-							DISTANCE	179.60
INPUT PARAMETERS								
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	22.96	5.72	1.76	16.92	-0.32	-4.28		
Distance	-8.44	-8.44	-8.44	-8.44	-8.44	-8.44		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: El Toro Road
Segment: Nichols Road to Dexter Avenue

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	55.71	48.19	49.46	49.68	42.16	43.42

ADT	7000.00
SPEED	35.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	59.15
DAY LEQ	57.22
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 57.22 NIGHT LEQ 51.18

LDN 59.1

Roadway: El Toro Road
Segment: Nichols Road to Dexter Avenue
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01
Distance	6.27	6.27	6.27	6.27	6.27	6.27
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.60	59.08	60.34	60.56	53.04	54.31

ADT	7000.00
SPEED	35.00
DISTANCE	18.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.03
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: El Toro Road
Segment: Nichols Road to Dexter Avenue
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01
Distance	1.27	1.27	1.27	1.27	1.27	1.27
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.60	54.08	55.34	55.57	48.05	49.31

ADT	7000.00
SPEED	35.00
DISTANCE	40.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.03
DAY LEQ	63.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.07

LDN 65.0

Roadway: El Toro Road
Segment: Nichols Road to Dexter Avenue
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01
Distance	-3.72	-3.72	-3.72	-3.72	-3.72	-3.72
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.61	49.09	50.36	50.58	43.06	44.32

ADT	7000.00
SPEED	35.00
DISTANCE	87.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Flint Street
Segment: Spring Street to Main Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14000.00
							SPEED	30.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	60.59
ADJUSTMENTS							DAY LEQ	58.66
Flow	23.90	6.67	2.71	17.87	0.63	-3.33		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.80	50.16	51.85	50.76	44.12	45.81	GRADE dB	0.00

DAY LEQ 58.66 NIGHT LEQ 52.63

LDN 60.6

Roadway: Flint Street
Segment: Spring Street to Main Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14000.00
							SPEED	30.00
-							DISTANCE	23.50
INPUT PARAMETERS								
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	70.03
ADJUSTMENTS							DAY LEQ	68.10
Flow	23.90	6.67	2.71	17.87	0.63	-3.33		
Distance	4.81	4.81	4.81	4.81	4.81	4.81		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.23	59.59	61.29	60.19	53.56	55.25	GRADE dB	0.00

DAY LEQ 68.10 NIGHT LEQ 62.06

LDN 70.0

Roadway: Flint Street
Segment: Spring Street to Main Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14000.00
							SPEED	30.00
-							DISTANCE	50.50
INPUT PARAMETERS								
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.11
Flow	23.90	6.67	2.71	17.87	0.63	-3.33		
Distance	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.25	54.61	56.30	55.21	48.57	50.26	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

Roadway: Flint Street
Segment: Spring Street to Main Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14000.00
							SPEED	30.00
-							DISTANCE	108.70
INPUT PARAMETERS								
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50	% A	97.42
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	23.90	6.67	2.71	17.87	0.63	-3.33		
Distance	-5.16	-5.16	-5.16	-5.16	-5.16	-5.16		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.25	49.62	51.31	50.22	43.58	45.27	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Flint Street
Segment: Main Street to Rancho Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	20.89	3.66	-0.30	14.86	-2.38	-6.34
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	53.79	47.15	48.84	47.75	41.11	42.80

DAY LEQ 55.65 NIGHT LEQ 49.62

LDN 57.6

ADT	7000.00
SPEED	30.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	57.58
DAY LEQ	55.65
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Flint Street
Segment: Main Street to Rancho Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	20.89	3.66	-0.30	14.86	-2.38	-6.34
Distance	7.83	7.83	7.83	7.83	7.83	7.83
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.23	59.60	61.29	60.20	53.56	55.25

DAY LEQ 68.10 NIGHT LEQ 62.06

LDN 70.0

ADT	7000.00
SPEED	30.00
DISTANCE	14.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.03
DAY LEQ	68.10
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Flint Street
Segment: Main Street to Rancho Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	20.89	3.66	-0.30	14.86	-2.38	-6.34
Distance	2.84	2.84	2.84	2.84	2.84	2.84
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.25	54.61	56.30	55.21	48.58	50.27

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	7000.00
SPEED	30.00
DISTANCE	31.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Flint Street
Segment: Main Street to Rancho Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	20.89	3.66	-0.30	14.86	-2.38	-6.34
Distance	-2.16	-2.16	-2.16	-2.16	-2.16	-2.16
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.25	49.61	51.31	50.21	43.58	45.27

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	7000.00
SPEED	30.00
DISTANCE	68.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Flint Street
Segment: Rancho Street to E of Rancho Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	452.03	8.54	3.43	112.57	2.13	0.86
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	54.37	47.73	49.42	48.33	41.69	43.38

DAY LEQ 56.23 NIGHT LEQ 50.20

LDN 58.2

ADT	8000.00
SPEED	30.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	58.16
DAY LEQ	56.23
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Flint Street
Segment: Rancho Street to E of Rancho Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	452.03	8.54	3.43	112.57	2.13	0.86
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76
Distance	7.24	7.24	7.24	7.24	7.24	7.24
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.22	59.59	61.28	60.19	53.55	55.24

DAY LEQ 68.09 NIGHT LEQ 62.05

LDN 70.0

ADT	8000.00
SPEED	30.00
DISTANCE	16.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.02
DAY LEQ	68.09
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Flint Street
Segment: Rancho Street to E of Rancho Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	452.03	8.54	3.43	112.57	2.13	0.86
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76
Distance	2.26	2.26	2.26	2.26	2.26	2.26
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.24	54.61	56.30	55.21	48.57	50.26

DAY LEQ 63.11 NIGHT LEQ 57.07

LDN 65.0

ADT	8000.00
SPEED	40.00
DISTANCE	34.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Flint Street
Segment: Rancho Street to E of Rancho Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	452.03	8.54	3.43	112.57	2.13	0.86
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76
Distance	-2.74	-2.74	-2.74	-2.74	-2.74	-2.74
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.25	49.61	51.30	50.21	43.58	45.27

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	8000.00
SPEED	30.00
DISTANCE	74.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.04
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Flint Street
Segment: Alvarado Street to Grand Avenue

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	54.88	48.24	49.93	48.84	42.20	43.89

DAY LEQ 56.75 NIGHT LEQ 50.71

LDN 58.7

ADT	9000.00
SPEED	30.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	58.67
DAY LEQ	56.75
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Flint Street
Segment: Alvarado Street to Grand Avenue
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25
Distance	6.73	6.73	6.73	6.73	6.73	6.73
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.23	59.60	61.29	60.20	53.56	55.25

DAY LEQ 68.10 NIGHT LEQ 62.06

LDN 70.0

ADT	9000.00
SPEED	30.00
DISTANCE	17.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.03
DAY LEQ	68.10
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Flint Street
Segment: Alvarado Street to Grand Avenue
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25
Distance	1.75	1.75	1.75	1.75	1.75	1.75
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.25	54.61	56.30	55.21	48.58	50.27

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	9000.00
SPEED	30.00
DISTANCE	37.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Flint Street
Segment: Alvarado Street to Grand Avenue
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25
Distance	-3.25	-3.25	-3.25	-3.25	-3.25	-3.25
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.25	49.61	51.30	50.21	43.58	45.27

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	9000.00
SPEED	30.00
DISTANCE	81.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Franklin Street
Segment: Avenue 6 to Old Franklin Street/Auto Center Drive

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	26000.00
							SPEED	35.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	64.85
ADJUSTMENTS							DAY LEQ	62.92
Flow	25.92	8.69	4.73	19.89	2.65	-1.31		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.41	53.89	55.16	55.38	47.86	49.12	GRADE dB	0.00

DAY LEQ 62.92 NIGHT LEQ 56.88

LDN 64.8

Roadway: Franklin Street
Segment: Avenue 6 to Old Franklin Street/Auto Center Drive
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	26000.00
							SPEED	35.00
-							DISTANCE	45.00
INPUT PARAMETERS								
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	25.92	8.69	4.73	19.89	2.65	-1.31		
Distance	0.58	0.58	0.58	0.58	0.58	0.58		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.62	59.10	60.36	60.58	53.06	54.32	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Franklin Street
Segment: Avenue 6 to Old Franklin Street/Auto Center Drive
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	26000.00
							SPEED	35.00
-							DISTANCE	97.00
INPUT PARAMETERS								
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.92	8.69	4.73	19.89	2.65	-1.31		
Distance	-4.42	-4.42	-4.42	-4.42	-4.42	-4.42		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.61	54.09	55.35	55.57	48.05	49.32	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Franklin Street
Segment: Avenue 6 to Old Franklin Street/Auto Center Drive
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	26000.00
							SPEED	35.00
-							DISTANCE	208.80
INPUT PARAMETERS								
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.92	8.69	4.73	19.89	2.65	-1.31		
Distance	-9.42	-9.42	-9.42	-9.42	-9.42	-9.42		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.62	49.10	50.36	50.58	43.06	44.32	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Grand Avenue
Segment: Lakeshore Drive to Lincoln Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	19000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	66.17
ADJUSTMENTS							DAY LEQ	64.24
Flow	23.47	6.23	2.28	17.43	0.19	-3.76		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	63.19	54.23	54.80	57.16	48.20	48.76	GRADE dB	0.00

DAY LEQ 64.24 NIGHT LEQ 58.20

LDN 66.2

Roadway: Grand Avenue
Segment: Lakeshore Drive to Lincoln Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	19000.00
							SPEED	45.00
-							DISTANCE	55.10
INPUT PARAMETERS								
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	23.47	6.23	2.28	17.43	0.19	-3.76		
Distance	-0.74	-0.74	-0.74	-0.74	-0.74	-0.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.08	58.12	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Grand Avenue
Segment: Lakeshore Drive to Lincoln Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	19000.00
							SPEED	45.00
-							DISTANCE	118.70
INPUT PARAMETERS								
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	23.47	6.23	2.28	17.43	0.19	-3.76		
Distance	-5.74	-5.74	-5.74	-5.74	-5.74	-5.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Grand Avenue
Segment: Lakeshore Drive to Lincoln Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	19000.00
							SPEED	45.00
-							DISTANCE	255.80
INPUT PARAMETERS								
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	23.47	6.23	2.28	17.43	0.19	-3.76		
Distance	-10.74	-10.74	-10.74	-10.74	-10.74	-10.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Grand Avenue
Segment: Lincoln Street to Alvarado Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	36000.00
							SPEED	45.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2034.13	38.42	15.45	506.58	9.57	3.85	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	68.94
ADJUSTMENTS							DAY LEQ	67.01
Flow	26.25	9.01	5.05	20.21	2.97	-0.99		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	65.97	57.01	57.57	59.93	50.97	51.54	GRADE dB	0.00

DAY LEQ 67.01 NIGHT LEQ 60.98

LDN 68.9

Roadway: Grand Avenue
Segment: Lincoln Street to Alvarado Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	36000.00
							SPEED	45.00
							DISTANCE	84.40
INPUT PARAMETERS								
Vehicles per hour	2034.13	38.42	15.45	506.58	9.57	3.85	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	26.25	9.01	5.05	20.21	2.97	-0.99		
Distance	-3.52	-3.52	-3.52	-3.52	-3.52	-3.52		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Grand Avenue
Segment: Lincoln Street to Alvarado Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	36000.00
							SPEED	45.00
							DISTANCE	181.80
INPUT PARAMETERS								
Vehicles per hour	2034.13	38.42	15.45	506.58	9.57	3.85	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	26.25	9.01	5.05	20.21	2.97	-0.99		
Distance	-8.51	-8.51	-8.51	-8.51	-8.51	-8.51		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Grand Avenue
Segment: Lincoln Street to Alvarado Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	36000.00
							SPEED	45.00
							DISTANCE	391.60
INPUT PARAMETERS								
Vehicles per hour	2034.13	38.42	15.45	506.58	9.57	3.85	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	26.25	9.01	5.05	20.21	2.97	-0.99		
Distance	-13.51	-13.51	-13.51	-13.51	-13.51	-13.51		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Grand Avenue
Segment: Alvarado Street to Machado Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1695.11	32.02	12.88	422.15	7.97	3.21
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.45	8.22	4.26	19.42	2.18	-1.78
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	65.18	56.22	56.78	59.14	50.18	50.74

ADT	30000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	68.15
DAY LEQ	66.22
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 66.22 NIGHT LEQ 60.18

LDN 68.2

Roadway: Grand Avenue
Segment: Alvarado Street to Machado Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1695.11	32.02	12.88	422.15	7.97	3.21
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.45	8.22	4.26	19.42	2.18	-1.78
Distance	-2.73	-2.73	-2.73	-2.73	-2.73	-2.73
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.67	61.03	52.07	52.64

ADT	30000.00
SPEED	45.00
DISTANCE	74.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Grand Avenue
Segment: Alvarado Street to Machado Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1695.11	32.02	12.88	422.15	7.97	3.21
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.45	8.22	4.26	19.42	2.18	-1.78
Distance	-7.72	-7.72	-7.72	-7.72	-7.72	-7.72
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

ADT	30000.00
SPEED	40.00
DISTANCE	161.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Grand Avenue
Segment: Alvarado Street to Machado Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1695.11	32.02	12.88	422.15	7.97	3.21
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.45	8.22	4.26	19.42	2.18	-1.78
Distance	-12.72	-12.72	-12.72	-12.72	-12.72	-12.72
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	30000.00
SPEED	45.00
DISTANCE	346.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Grand Avenue
Segment: Machado Street to Riverside Drive

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1864.62	35.22	14.16	464.37	8.77	3.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	68.56
ADJUSTMENTS							DAY LEQ	66.64
Flow	25.87	8.63	4.67	19.83	2.59	-1.36		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	65.59	56.63	57.19	59.55	50.59	51.16	GRADE dB	0.00

DAY LEQ 66.64 NIGHT LEQ 60.60

LDN 68.6

Roadway: Grand Avenue
Segment: Machado Street to Riverside Drive
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33000.00
							SPEED	45.00
-							DISTANCE	79.70
INPUT PARAMETERS								
Vehicles per hour	1864.62	35.22	14.16	464.37	8.77	3.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	25.87	8.63	4.67	19.83	2.59	-1.36		
Distance	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Grand Avenue
Segment: Machado Street to Riverside Drive
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33000.00
							SPEED	45.00
-							DISTANCE	171.60
INPUT PARAMETERS								
Vehicles per hour	1864.62	35.22	14.16	464.37	8.77	3.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.87	8.63	4.67	19.83	2.59	-1.36		
Distance	-8.14	-8.14	-8.14	-8.14	-8.14	-8.14		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Grand Avenue
Segment: Machado Street to Riverside Drive
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33000.00
							SPEED	45.00
-							DISTANCE	369.50
INPUT PARAMETERS								
Vehicles per hour	1864.62	35.22	14.16	464.37	8.77	3.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.87	8.63	4.67	19.83	2.59	-1.36		
Distance	-13.13	-13.13	-13.13	-13.13	-13.13	-13.13		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Grand Avenue
Segment: Riverside Drive to SR-74/Ortega Highway

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3390.22	64.03	25.75	844.31	15.95	6.41
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.46	11.23	7.27	22.43	5.19	1.23
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	68.19	59.23	59.79	62.15	53.19	53.75

DAY LEQ	69.23
NIGHT LEQ	63.19
LDN	71.2

ADT	60000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	71.16
DAY LEQ	69.23
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Grand Avenue
Segment: Riverside Drive to SR-74/Ortega Highway
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3390.22	64.03	25.75	844.31	15.95	6.41
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.46	11.23	7.27	22.43	5.19	1.23
Distance	-5.73	-5.73	-5.73	-5.73	-5.73	-5.73
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.12	58.68	61.04	52.08	52.64

DAY LEQ	68.12
NIGHT LEQ	62.08
LDN	70.0

ADT	60000.00
SPEED	45.00
DISTANCE	118.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Grand Avenue
Segment: Riverside Drive to SR-74/Ortega Highway
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3390.22	64.03	25.75	844.31	15.95	6.41
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.46	11.23	7.27	22.43	5.19	1.23
Distance	-10.73	-10.73	-10.73	-10.73	-10.73	-10.73
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

DAY LEQ	63.12
NIGHT LEQ	57.08
LDN	65.0

ADT	60000.00
SPEED	45.00
DISTANCE	255.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Grand Avenue
Segment: Riverside Drive to SR-74/Ortega Highway
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3390.22	64.03	25.75	844.31	15.95	6.41
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.46	11.23	7.27	22.43	5.19	1.23
Distance	-15.73	-15.73	-15.73	-15.73	-15.73	-15.73
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

DAY LEQ	58.12
NIGHT LEQ	52.08
LDN	60.0

ADT	60000.00
SPEED	45.00
DISTANCE	550.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Grand Avenue
Segment: SR-74/Ortega Highway to S of SR-74/Ortega Highway

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	54000.00
							SPEED	45.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	3051.19	57.63	23.18	759.88	14.35	5.77	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.70
ADJUSTMENTS							DAY LEQ	68.77
Flow	28.01	10.77	6.81	21.97	4.73	0.78		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.73	58.77	59.33	61.69	52.73	53.30	GRADE dB	0.00

DAY LEQ 68.77 NIGHT LEQ 62.74

LDN 70.7

Roadway: Grand Avenue
Segment: SR-74/Ortega Highway to S of SR-74/Ortega Highway
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	54000.00
							SPEED	45.00
							DISTANCE	110.60
INPUT PARAMETERS								
Vehicles per hour	3051.19	57.63	23.18	759.88	14.35	5.77	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	28.01	10.77	6.81	21.97	4.73	0.78		
Distance	-5.28	-5.28	-5.28	-5.28	-5.28	-5.28		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Grand Avenue
Segment: SR-74/Ortega Highway to S of SR-74/Ortega Highway
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	54000.00
							SPEED	45.00
							DISTANCE	238.20
INPUT PARAMETERS								
Vehicles per hour	3051.19	57.63	23.18	759.88	14.35	5.77	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	28.01	10.77	6.81	21.97	4.73	0.78		
Distance	-10.27	-10.27	-10.27	-10.27	-10.27	-10.27		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Grand Avenue
Segment: SR-74/Ortega Highway to S of SR-74/Ortega Highwa
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	54000.00
							SPEED	45.00
							DISTANCE	513.10
INPUT PARAMETERS								
Vehicles per hour	3051.19	57.63	23.18	759.88	14.35	5.77	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	28.01	10.77	6.81	21.97	4.73	0.78		
Distance	-15.27	-15.27	-15.27	-15.27	-15.27	-15.27		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Grand Avenue
Segment: N of Stoneman Street to Stoneman Street

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3785.74	71.50	28.76	942.81	17.81	7.16
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.94	11.71	7.75	22.91	5.67	1.71
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	68.67	59.71	60.27	62.63	53.67	54.23

ADT	67000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	71.64
DAY LEQ	69.71
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 69.71 NIGHT LEQ 63.67

LDN 71.6

Roadway: Grand Avenue
Segment: N of Stoneman Street to Stoneman Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3785.74	71.50	28.76	942.81	17.81	7.16
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.94	11.71	7.75	22.91	5.67	1.71
Distance	-6.21	-6.21	-6.21	-6.21	-6.21	-6.21
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.68	61.04	52.08	52.64

ADT	67000.00
SPEED	45.00
DISTANCE	127.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Grand Avenue
Segment: N of Stoneman Street to Stoneman Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3785.74	71.50	28.76	942.81	17.81	7.16
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.94	11.71	7.75	22.91	5.67	1.71
Distance	-11.21	-11.21	-11.21	-11.21	-11.21	-11.21
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

ADT	67000.00
SPEED	45.00
DISTANCE	275.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Grand Avenue
Segment: N of Stoneman Street to Stoneman Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3785.74	71.50	28.76	942.81	17.81	7.16
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.94	11.71	7.75	22.91	5.67	1.71
Distance	-16.21	-16.21	-16.21	-16.21	-16.21	-16.21
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	67000.00
SPEED	45.00
DISTANCE	592.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Grape Street
Segment: Railroad Canyon Road to I-15 NB Ramps

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1864.62	35.22	14.16	464.37	8.77	3.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	68.56
ADJUSTMENTS							DAY LEQ	66.64
Flow	25.87	8.63	4.67	19.83	2.59	-1.36		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	65.59	56.63	57.19	59.55	50.59	51.16	GRADE dB	0.00

DAY LEQ 66.64 NIGHT LEQ 60.60

LDN 68.6

Roadway: Grape Street
Segment: Railroad Canyon Road to I-15 NB Ramps
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33000.00
							SPEED	45.00
-							DISTANCE	79.70
INPUT PARAMETERS								
Vehicles per hour	1864.62	35.22	14.16	464.37	8.77	3.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	25.87	8.63	4.67	19.83	2.59	-1.36		
Distance	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Grape Street
Segment: Railroad Canyon Road to I-15 NB Ramps
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33000.00
							SPEED	45.00
-							DISTANCE	171.60
INPUT PARAMETERS								
Vehicles per hour	1864.62	35.22	14.16	464.37	8.77	3.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.87	8.63	4.67	19.83	2.59	-1.36		
Distance	-8.14	-8.14	-8.14	-8.14	-8.14	-8.14		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Grape Street
Segment: Railroad Canyon Road to I-15 NB Ramps
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33000.00
							SPEED	45.00
-							DISTANCE	369.50
INPUT PARAMETERS								+
Vehicles per hour	1864.62	35.22	14.16	464.37	8.77	3.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.87	8.63	4.67	19.83	2.59	-1.36		
Distance	-13.13	-13.13	-13.13	-13.13	-13.13	-13.13		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Grape Street
Segment: I-15 NB Ramps to S of I-15 NB Ramps

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	59.95	50.99	51.55	53.91	44.95	45.51

DAY LEQ 60.99 NIGHT LEQ 54.96

LDN 62.9

ADT	9000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	62.92
DAY LEQ	60.99
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Grape Street
Segment: I-15 NB Ramps to S of I-15 NB Ramps
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01
Distance	2.50	2.50	2.50	2.50	2.50	2.50
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.68	61.04	52.08	52.64

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	9000.00
SPEED	45.00
DISTANCE	33.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Grape Street
Segment: I-15 NB Ramps to S of I-15 NB Ramps
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01
Distance	-2.50	-2.50	-2.50	-2.50	-2.50	-2.50
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.07	53.11	53.67	56.03	47.07	47.64

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	9000.00
SPEED	45.00
DISTANCE	72.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Grape Street
Segment: I-15 NB Ramps to S of I-15 NB Ramps
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01
Distance	-7.49	-7.49	-7.49	-7.49	-7.49	-7.49
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	9000.00
SPEED	45.00
DISTANCE	155.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Greenwald Avenue
Segment: Riverside Drive to Scenic Crest Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1186.58	22.41	9.01	295.51	5.58	2.24
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.42	7.18	3.22	18.38	1.14	-2.81
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.16	53.87	54.76	56.12	47.83	48.72

ADT	21000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.32
DAY LEQ	63.40
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.40 NIGHT LEQ 57.36

LDN 65.3

Roadway: Greenwald Avenue
Segment: Riverside Drive to Scenic Crest Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1186.58	22.41	9.01	295.51	5.58	2.24
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.42	7.18	3.22	18.38	1.14	-2.81
Distance	0.09	0.09	0.09	0.09	0.09	0.09
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.87	58.58	59.48	60.83	52.55	53.44

ADT	21000.00
SPEED	40.00
DISTANCE	48.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Greenwald Avenue
Segment: Riverside Drive to Scenic Crest Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1186.58	22.41	9.01	295.51	5.58	2.24
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.42	7.18	3.22	18.38	1.14	-2.81
Distance	-4.90	-4.90	-4.90	-4.90	-4.90	-4.90
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.55	48.44

ADT	21000.00
SPEED	40.00
DISTANCE	104.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Greenwald Avenue
Segment: Riverside Drive to Scenic Crest Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1186.58	22.41	9.01	295.51	5.58	2.24
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.42	7.18	3.22	18.38	1.14	-2.81
Distance	-9.90	-9.90	-9.90	-9.90	-9.90	-9.90
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.48	50.84	42.56	43.45

ADT	21000.00
SPEED	40.00
DISTANCE	224.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Greenwald Avenue
Segment: Central Avenue to 3rd Street

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1130.07	21.34	8.58	281.44	5.32	2.14
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.20	6.97	3.01	18.17	0.93	-3.03
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.94	53.66	54.55	55.91	47.62	48.51

ADT	20000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.11
DAY LEQ	63.18
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.18 NIGHT LEQ 57.15

LDN 65.1

Roadway: Greenwald Avenue
Segment: Central Avenue to 3rd Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1130.07	21.34	8.58	281.44	5.32	2.14
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.20	6.97	3.01	18.17	0.93	-3.03
Distance	0.31	0.31	0.31	0.31	0.31	0.31
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.88	58.59	59.48	60.84	52.55	53.44

ADT	20000.00
SPEED	40.00
DISTANCE	46.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Greenwald Avenue
Segment: Central Avenue to 3rd Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1130.07	21.34	8.58	281.44	5.32	2.14
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.20	6.97	3.01	18.17	0.93	-3.03
Distance	-4.69	-4.69	-4.69	-4.69	-4.69	-4.69
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.56	48.45

ADT	20000.00
SPEED	40.00
DISTANCE	101.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Greenwald Avenue
Segment: Central Avenue to 3rd Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1130.07	21.34	8.58	281.44	5.32	2.14
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	24.20	6.97	3.01	18.17	0.93	-3.03
Distance	-9.69	-9.69	-9.69	-9.69	-9.69	-9.69
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.48	50.84	42.56	43.45

ADT	20000.00
SPEED	40.00
DISTANCE	217.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Greenwald Avenue
Segment: 3rd Street to 2nd Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	13000.00
							SPEED	40.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	63.24
ADJUSTMENTS							DAY LEQ	61.31
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	60.07	51.79	52.68	54.04	45.75	46.64	GRADE dB	0.00

DAY LEQ 61.31 NIGHT LEQ 55.28

LDN 63.2

Roadway: Greenwald Avenue
Segment: 3rd Street to 2nd Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	13000.00
							SPEED	40.00
							DISTANCE	35.20
INPUT PARAMETERS								
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90		
Distance	2.18	2.18	2.18	2.18	2.18	2.18		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.88	58.59	59.48	60.84	52.55	53.44	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Greenwald Avenue
Segment: 3rd Street to 2nd Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	13000.00
							SPEED	40.00
							DISTANCE	75.80
INPUT PARAMETERS								
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90		
Distance	-2.82	-2.82	-2.82	-2.82	-2.82	-2.82		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Greenwald Avenue
Segment: 3rd Street to 2nd Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	13000.00
							SPEED	40.00
							DISTANCE	163.30
INPUT PARAMETERS								
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90		
Distance	-7.82	-7.82	-7.82	-7.82	-7.82	-7.82		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.48	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Gunnerson Street
Segment: N of Lakeshore Drive to Lakeshore Drive

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	56.87
ADJUSTMENTS							DAY LEQ	54.95
Flow	15.97	-1.27	-5.23	9.93	-7.31	-11.27		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	53.70	45.42	46.31	47.67	39.38	40.27	GRADE dB	0.00

DAY LEQ 54.95 NIGHT LEQ 48.91

LDN 56.9

Roadway: Gunnerson Street
Segment: N of Lakeshore Drive to Lakeshore Drive
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3000.00
							SPEED	40.00
-							DISTANCE	13.30
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.02
ADJUSTMENTS							DAY LEQ	68.09
Flow	15.97	-1.27	-5.23	9.93	-7.31	-11.27		
Distance	8.52	8.52	8.52	8.52	8.52	8.52		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.85	58.56	59.45	60.81	52.52	53.42	GRADE dB	0.00

DAY LEQ 68.09 NIGHT LEQ 62.05

LDN 70.0

Roadway: Gunnerson Street
Segment: N of Lakeshore Drive to Lakeshore Drive
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3000.00
							SPEED	40.00
-							DISTANCE	28.60
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.03
ADJUSTMENTS							DAY LEQ	63.10
Flow	15.97	-1.27	-5.23	9.93	-7.31	-11.27		
Distance	3.53	3.53	3.53	3.53	3.53	3.53		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.86	53.57	54.46	55.82	47.54	48.43	GRADE dB	0.00

DAY LEQ 63.10 NIGHT LEQ 57.06

LDN 65.0

Roadway: Gunnerson Street
Segment: N of Lakeshore Drive to Lakeshore Drive
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3000.00
							SPEED	40.00
-							DISTANCE	61.50
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.04
ADJUSTMENTS							DAY LEQ	58.11
Flow	15.97	-1.27	-5.23	9.93	-7.31	-11.27		
Distance	-1.45	-1.45	-1.45	-1.45	-1.45	-1.45		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.87	48.59	49.48	50.83	42.55	43.44	GRADE dB	0.00

DAY LEQ 58.11 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Gunnerson Street
Segment: W of Riverside Drive to Riverside Drive

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	9000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	61.64
ADJUSTMENTS							DAY LEQ	59.72
Flow	20.74	3.50	-0.46	14.70	-2.54	-6.49		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	58.48	50.19	51.08	52.44	44.15	45.04	GRADE dB	0.00

DAY LEQ 59.72 NIGHT LEQ 53.68

LDN 61.6

Roadway: Gunnerson Street
Segment: W of Riverside Drive to Riverside Drive
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	9000.00
							SPEED	40.00
-							DISTANCE	27.60
INPUT PARAMETERS								
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.03
ADJUSTMENTS							DAY LEQ	68.10
Flow	20.74	3.50	-0.46	14.70	-2.54	-6.49		
Distance	3.77	3.77	3.77	3.77	3.77	3.77		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.86	58.58	59.47	60.83	52.54	53.43	GRADE dB	0.00

DAY LEQ 68.10 NIGHT LEQ 62.07

LDN 70.0

Roadway: Gunnerson Street
Segment: W of Riverside Drive to Riverside Drive
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	9000.00
							SPEED	40.00
-							DISTANCE	59.30
INPUT PARAMETERS								
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	20.74	3.50	-0.46	14.70	-2.54	-6.49		
Distance	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.49	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Gunnerson Street
Segment: W of Riverside Drive to Riverside Drive
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	9000.00
							SPEED	40.00
-							DISTANCE	127.80
INPUT PARAMETERS								
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	20.74	3.50	-0.46	14.70	-2.54	-6.49		
Distance	-6.22	-6.22	-6.22	-6.22	-6.22	-6.22		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.48	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Horsethief Canyon Road
Segment: De Palma Road to S of De Palma Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2147.14	40.55	16.31	534.73	10.10	4.06
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	26.99	9.75	5.80	20.95	3.72	-0.24
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	64.73	56.45	57.34	58.69	50.41	51.30

DAY LEQ 65.97 NIGHT LEQ 59.93

LDN 67.9

ADT	38000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	67.90
DAY LEQ	65.97
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Horsethief Canyon Road
Segment: De Palma Road to S of De Palma Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2147.14	40.55	16.31	534.73	10.10	4.06
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	26.99	9.75	5.80	20.95	3.72	-0.24
Distance	-2.47	-2.47	-2.47	-2.47	-2.47	-2.47
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.88	58.60	59.49	60.84	52.56	53.45

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	38000.00
SPEED	40.00
DISTANCE	71.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Horsethief Canyon Road
Segment: De Palma Road to S of De Palma Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2147.14	40.55	16.31	534.73	10.10	4.06
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	26.99	9.75	5.80	20.95	3.72	-0.24
Distance	-7.47	-7.47	-7.47	-7.47	-7.47	-7.47
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.60	54.49	55.84	47.56	48.45

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	38000.00
SPEED	40.00
DISTANCE	154.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Horsethief Canyon Road
Segment: De Palma Road to S of De Palma Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2147.14	40.55	16.31	534.73	10.10	4.06
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	26.99	9.75	5.80	20.95	3.72	-0.24
Distance	-12.47	-12.47	-12.47	-12.47	-12.47	-12.47
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.60	49.49	50.84	42.56	43.45

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	38000.00
SPEED	40.00
DISTANCE	333.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Horsethief Canyon Road
Segment: N of Mountain Road to Mountain Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.34	8.11	4.15	19.31	2.07	-1.89
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	63.08	54.80	55.69	57.05	48.76	49.65

DAY LEQ 64.32 NIGHT LEQ 58.29

LDN 66.3

ADT	26000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	66.25
DAY LEQ	64.32
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Horsethief Canyon Road
Segment: N of Mountain Road to Mountain Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.34	8.11	4.15	19.31	2.07	-1.89
Distance	-0.83	-0.83	-0.83	-0.83	-0.83	-0.83
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.87	58.59	59.48	60.84	52.55	53.44

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

ADT	26000.00
SPEED	40.00
DISTANCE	55.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Horsethief Canyon Road
Segment: N of Mountain Road to Mountain Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.34	8.11	4.15	19.31	2.07	-1.89
Distance	-5.82	-5.82	-5.82	-5.82	-5.82	-5.82
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.56	48.45

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	26000.00
SPEED	40.00
DISTANCE	120.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Horsethief Canyon Road
Segment: N of Mountain Road to Mountain Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	25.34	8.11	4.15	19.31	2.07	-1.89
Distance	-10.83	-10.83	-10.83	-10.83	-10.83	-10.83
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.48	50.84	42.56	43.45

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	26000.00
SPEED	40.00
DISTANCE	259.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Horsethief Canyon Road
Segment: Mountain Road to Mountain Road

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	59.09
ADJUSTMENTS							DAY LEQ	57.16
Flow	18.18	0.95	-3.01	12.15	-5.09	-9.05		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	55.92	47.64	48.53	49.89	41.60	42.49	GRADE dB	0.00

DAY LEQ 57.16 NIGHT LEQ 51.13

LDN 59.1

Roadway: Horsethief Canyon Road
Segment: Mountain Road to Mountain Road
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5000.00
							SPEED	40.00
-							DISTANCE	18.60
INPUT PARAMETERS								
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	18.18	0.95	-3.01	12.15	-5.09	-9.05		
Distance	6.34	6.34	6.34	6.34	6.34	6.34		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.88	58.60	59.49	60.84	52.56	53.45	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Horsethief Canyon Road
Segment: Mountain Road to Mountain Road
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5000.00
							SPEED	40.00
-							DISTANCE	40.10
INPUT PARAMETERS								
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.12
Flow	18.18	0.95	-3.01	12.15	-5.09	-9.05		
Distance	1.33	1.33	1.33	1.33	1.33	1.33		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.55	48.44	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Horsethief Canyon Road
Segment: Mountain Road to Mountain Road
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5000.00
							SPEED	40.00
-							DISTANCE	86.40
INPUT PARAMETERS								
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.04
ADJUSTMENTS							DAY LEQ	58.12
Flow	18.18	0.95	-3.01	12.15	-5.09	-9.05		
Distance	-3.67	-3.67	-3.67	-3.67	-3.67	-3.67		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.48	50.84	42.55	43.44	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Indian Truck Trail
Segment: De Palma Road to Horsethief Canyon Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	3000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	56.87
ADJUSTMENTS							DAY LEQ	54.95
Flow	15.97	-1.27	-5.23	9.93	-7.31	-11.27		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	53.70	45.42	46.31	47.67	39.38	40.27	GRADE dB	0.00

DAY LEQ 54.95 NIGHT LEQ 48.91

LDN 56.9

Roadway: Indian Truck Trail
Segment: De Palma Road to Horsethief Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	3000.00
							SPEED	40.00
-							DISTANCE	13.30
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.02
ADJUSTMENTS							DAY LEQ	68.09
Flow	15.97	-1.27	-5.23	9.93	-7.31	-11.27		
Distance	8.52	8.52	8.52	8.52	8.52	8.52		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.85	58.56	59.45	60.81	52.52	53.42	GRADE dB	0.00

DAY LEQ 68.09 NIGHT LEQ 62.05

LDN 70.0

Roadway: Indian Truck Trail
Segment: De Palma Road to Horsethief Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	3000.00
							SPEED	40.00
-							DISTANCE	28.60
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.03
ADJUSTMENTS							DAY LEQ	63.10
Flow	15.97	-1.27	-5.23	9.93	-7.31	-11.27		
Distance	3.53	3.53	3.53	3.53	3.53	3.53		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.86	53.57	54.46	55.82	47.54	48.43	GRADE dB	0.00

DAY LEQ 63.10 NIGHT LEQ 57.06

LDN 65.0

Roadway: Indian Truck Trail
Segment: De Palma Road to Horsethief Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	3000.00
							SPEED	40.00
-							DISTANCE	61.50
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.04
ADJUSTMENTS							DAY LEQ	58.11
Flow	15.97	-1.27	-5.23	9.93	-7.31	-11.27		
Distance	-1.45	-1.45	-1.45	-1.45	-1.45	-1.45		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.87	48.59	49.48	50.83	42.55	43.44	GRADE dB	0.00

DAY LEQ 58.11 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Clinton Keith Road to Baxter Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	12543.80	236.92	95.28	3123.93	59.00	23.73
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.23	14.99	11.03	26.19	8.95	5.00
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	79.40	67.90	67.24	73.36	61.87	61.20

ADT	222000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	81.86
DAY LEQ	79.93
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 79.93 NIGHT LEQ 73.90

LDN 81.9

Roadway: Interstate 15
Segment: Clinton Keith Road to Baxter Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	12543.80	236.92	95.28	3123.93	59.00	23.73
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.23	14.99	11.03	26.19	8.95	5.00
Distance	-16.43	-16.43	-16.43	-16.43	-16.43	-16.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.43	61.55	50.05	49.39

ADT	222000.00
SPEED	70.00
DISTANCE	613.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: Clinton Keith Road to Baxter Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	12543.80	236.92	95.28	3123.93	59.00	23.73
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.23	14.99	11.03	26.19	8.95	5.00
Distance	-21.43	-21.43	-21.43	-21.43	-21.43	-21.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

ADT	222000.00
SPEED	70.00
DISTANCE	1320.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: Clinton Keith Road to Baxter Road
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	12543.80	236.92	95.28	3123.93	59.00	23.73
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.23	14.99	11.03	26.19	8.95	5.00
Distance	-26.43	-26.43	-26.43	-26.43	-26.43	-26.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

ADT	222000.00
SPEED	70.00
DISTANCE	2845.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Baxter Road to Bundy Canyon Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	12543.80	236.92	95.28	3123.93	59.00	23.73
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.23	14.99	11.03	26.19	8.95	5.00
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	79.40	67.90	67.24	73.36	61.87	61.20

ADT	222000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	81.86
DAY LEQ	79.93
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 79.93 NIGHT LEQ 73.90

LDN 81.9

Roadway: Interstate 15
Segment: Baxter Road to Bundy Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	12543.80	236.92	95.28	3123.93	59.00	23.73
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.23	14.99	11.03	26.19	8.95	5.00
Distance	-16.43	-16.43	-16.43	-16.43	-16.43	-16.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.43	61.55	50.05	49.39

ADT	222000.00
SPEED	70.00
DISTANCE	613.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: Baxter Road to Bundy Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	12543.80	236.92	95.28	3123.93	59.00	23.73
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.23	14.99	11.03	26.19	8.95	5.00
Distance	-21.43	-21.43	-21.43	-21.43	-21.43	-21.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

ADT	222000.00
SPEED	70.00
DISTANCE	1320.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: Baxter Road to Bundy Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	12543.80	236.92	95.28	3123.93	59.00	23.73
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.23	14.99	11.03	26.19	8.95	5.00
Distance	-26.43	-26.43	-26.43	-26.43	-26.43	-26.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

ADT	222000.00
SPEED	70.00
DISTANCE	2845.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Bundy Canyon Road to Railroad Canyon Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	12543.80	236.92	95.28	3123.93	59.00	23.73
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.23	14.99	11.03	26.19	8.95	5.00
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	79.40	67.90	67.24	73.36	61.87	61.20

DAY LEQ	79.93	NIGHT LEQ	73.90
LDN	81.9		

ADT	222000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	81.86
DAY LEQ	79.93
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Interstate 15
Segment: Bundy Canyon Road to Railroad Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	12543.80	236.92	95.28	3123.93	59.00	23.73
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.23	14.99	11.03	26.19	8.95	5.00
Distance	-16.43	-16.43	-16.43	-16.43	-16.43	-16.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.43	61.55	50.05	49.39

DAY LEQ	68.12	NIGHT LEQ	62.08
LDN	70.0		

ADT	222000.00
SPEED	70.00
DISTANCE	613.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Interstate 15
Segment: Bundy Canyon Road to Railroad Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	12543.80	236.92	95.28	3123.93	59.00	23.73
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.23	14.99	11.03	26.19	8.95	5.00
Distance	-21.43	-21.43	-21.43	-21.43	-21.43	-21.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

DAY LEQ	63.12	NIGHT LEQ	57.08
LDN	65.0		

ADT	222000.00
SPEED	40.00
DISTANCE	1320.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Interstate 15
Segment: Bundy Canyon Road to Railroad Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	12543.80	236.92	95.28	3123.93	59.00	23.73
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.23	14.99	11.03	26.19	8.95	5.00
Distance	-26.43	-26.43	-26.43	-26.43	-26.43	-26.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

DAY LEQ	58.12	NIGHT LEQ	52.08
LDN	60.0		

ADT	222000.00
SPEED	70.00
DISTANCE	2845.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Railroad Canyon Road to Franklin Street

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	14803.94	279.61	112.45	3686.81	69.63	28.00
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.95	15.71	11.75	26.91	9.67	5.72
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	80.12	68.62	67.96	74.08	62.59	61.92

DAY LEQ	80.65	NIGHT LEQ	74.62
LDN	82.6		

ADT	262000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	82.58
DAY LEQ	80.65
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Interstate 15
Segment: Railroad Canyon Road to Franklin Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	14803.94	279.61	112.45	3686.81	69.63	28.00
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.95	15.71	11.75	26.91	9.67	5.72
Distance	-17.15	-17.15	-17.15	-17.15	-17.15	-17.15
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.43	61.55	50.05	49.39

DAY LEQ	68.12	NIGHT LEQ	62.08
LDN	70.0		

ADT	262000.00
SPEED	70.00
DISTANCE	684.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Interstate 15
Segment: Railroad Canyon Road to Franklin Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	14803.94	279.61	112.45	3686.81	69.63	28.00
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.95	15.71	11.75	26.91	9.67	5.72
Distance	-22.15	-22.15	-22.15	-22.15	-22.15	-22.15
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

DAY LEQ	63.12	NIGHT LEQ	57.08
LDN	65.0		

ADT	262000.00
SPEED	40.00
DISTANCE	1475.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Interstate 15
Segment: Railroad Canyon Road to Franklin Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	14803.94	279.61	112.45	3686.81	69.63	28.00
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.95	15.71	11.75	26.91	9.67	5.72
Distance	-27.15	-27.15	-27.15	-27.15	-27.15	-27.15
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

DAY LEQ	58.12	NIGHT LEQ	52.08
LDN	60.0		

ADT	262000.00
SPEED	70.00
DISTANCE	3177.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Franklin Street to Main Street

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	15481.99	292.41	117.60	3855.67	72.82	29.29
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	33.14	15.90	11.95	27.10	9.87	5.91
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	80.31	68.82	68.15	74.27	62.78	62.12

ADT	274000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	82.78
DAY LEQ	80.85
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 80.85 NIGHT LEQ 74.81

LDN 82.8

Roadway: Interstate 15
Segment: Franklin Street to Main Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	15481.99	292.41	117.60	3855.67	72.82	29.29
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	33.14	15.90	11.95	27.10	9.87	5.91
Distance	-17.35	-17.35	-17.35	-17.35	-17.35	-17.35
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.43	61.55	50.05	49.39

ADT	274000.00
SPEED	70.00
DISTANCE	705.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: Franklin Street to Main Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	15481.99	292.41	117.60	3855.67	72.82	29.29
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	33.14	15.90	11.95	27.10	9.87	5.91
Distance	-22.35	-22.35	-22.35	-22.35	-22.35	-22.35
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

ADT	274000.00
SPEED	70.00
DISTANCE	1519.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: Franklin Street to Main Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	15481.99	292.41	117.60	3855.67	72.82	29.29
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	33.14	15.90	11.95	27.10	9.87	5.91
Distance	-27.35	-27.35	-27.35	-27.35	-27.35	-27.35
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

ADT	274000.00
SPEED	70.00
DISTANCE	3274.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Main Street to SR-74 Juncton

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	15990.52	302.02	121.46	3982.31	75.22	30.25
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	33.28	16.04	12.09	27.24	10.01	6.05
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	80.45	68.96	68.29	74.41	62.92	62.26

DAY LEQ 80.99 NIGHT LEQ 74.95

LDN 82.9

ADT	283000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	82.92
DAY LEQ	80.99
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Interstate 15
Segment: Main Street to SR-74 Juncton
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	15990.52	302.02	121.46	3982.31	75.22	30.25
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	33.28	16.04	12.09	27.24	10.01	6.05
Distance	-17.49	-17.49	-17.49	-17.49	-17.49	-17.49
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.43	61.55	50.05	49.39

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	283000.00
SPEED	70.00
DISTANCE	720.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Interstate 15
Segment: Main Street to SR-74 Juncton
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	15990.52	302.02	121.46	3982.31	75.22	30.25
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	33.28	16.04	12.09	27.24	10.01	6.05
Distance	-22.49	-22.49	-22.49	-22.49	-22.49	-22.49
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	283000.00
SPEED	70.00
DISTANCE	1552.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Interstate 15
Segment: Main Street to SR-74 Juncton
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	15990.52	302.02	121.46	3982.31	75.22	30.25
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	33.28	16.04	12.09	27.24	10.01	6.05
Distance	-27.49	-27.49	-27.49	-27.49	-27.49	-27.49
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	283000.00
SPEED	70.00
DISTANCE	3345.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: SR-74 Junction to Nichols Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	254000.00
							SPEED	70.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	14351.91	271.07	109.02	3574.23	67.51	27.15	% A	97.42
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83	Ldn	82.45
ADJUSTMENTS							DAY LEQ	80.52
Flow	32.81	15.57	11.62	26.78	9.54	5.58		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	79.98	68.49	67.82	73.94	62.45	61.79	GRADE dB	0.00

DAY LEQ 80.52 NIGHT LEQ 74.48

LDN 82.4

Roadway: Interstate 15
Segment: SR-74 Junction to Nichols Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	254000.00
							SPEED	70.00
							DISTANCE	670.70
INPUT PARAMETERS								
Vehicles per hour	14351.91	271.07	109.02	3574.23	67.51	27.15	% A	97.42
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	32.81	15.57	11.62	26.78	9.54	5.58		
Distance	-17.02	-17.02	-17.02	-17.02	-17.02	-17.02		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.58	56.09	55.43	61.55	50.05	49.39	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: SR-74 Junction to Nichols Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	254000.00
							SPEED	70.00
							DISTANCE	1444.90
INPUT PARAMETERS								
Vehicles per hour	14351.91	271.07	109.02	3574.23	67.51	27.15	% A	97.42
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	32.81	15.57	11.62	26.78	9.54	5.58		
Distance	-22.02	-22.02	-22.02	-22.02	-22.02	-22.02		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.58	51.09	50.43	56.55	45.05	44.39	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: SR-74 Junction to Nichols Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	254000.00
							SPEED	70.00
							DISTANCE	3112.80
INPUT PARAMETERS								
Vehicles per hour	14351.91	271.07	109.02	3574.23	67.51	27.15	% A	97.42
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	32.81	15.57	11.62	26.78	9.54	5.58		
Distance	-27.02	-27.02	-27.02	-27.02	-27.02	-27.02		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.58	46.09	45.43	51.55	40.05	39.39	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Nichols Road to Lake Street

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	14408.42	272.14	109.45	3588.30	67.77	27.26
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.83	15.59	11.64	26.79	9.55	5.60
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	80.00	68.51	67.84	73.96	62.47	61.80

ADT	255000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	82.46
DAY LEQ	80.54
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 80.54 NIGHT LEQ 74.50

LDN 82.5

Roadway: Interstate 15
Segment: Nichols Road to Lake Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	14408.42	272.14	109.45	3588.30	67.77	27.26
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.83	15.59	11.64	26.79	9.55	5.60
Distance	-17.03	-17.03	-17.03	-17.03	-17.03	-17.03
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.43	61.55	50.05	49.39

ADT	255000.00
SPEED	70.00
DISTANCE	672.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: Nichols Road to Lake Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	14408.42	272.14	109.45	3588.30	67.77	27.26
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.83	15.59	11.64	26.79	9.55	5.60
Distance	-22.04	-22.04	-22.04	-22.04	-22.04	-22.04
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

ADT	255000.00
SPEED	70.00
DISTANCE	1448.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: Nichols Road to Lake Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	14408.42	272.14	109.45	3588.30	67.77	27.26
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.83	15.59	11.64	26.79	9.55	5.60
Distance	-27.03	-27.03	-27.03	-27.03	-27.03	-27.03
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

ADT	255000.00
SPEED	70.00
DISTANCE	3121.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Lake Street to Indian Trail Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	14690.94	277.47	111.59	3658.66	69.10	27.79
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.91	15.68	11.72	26.88	9.64	5.68
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	80.08	68.59	67.92	74.05	62.55	61.89

ADT	260000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	82.55
DAY LEQ	80.62
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 80.62 NIGHT LEQ 74.58

LDN 82.5

Roadway: Interstate 15
Segment: Lake Street to Indian Trail Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	14690.94	277.47	111.59	3658.66	69.10	27.79
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.91	15.68	11.72	26.88	9.64	5.68
Distance	-17.12	-17.12	-17.12	-17.12	-17.12	-17.12
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.43	61.55	50.05	49.39

ADT	260000.00
SPEED	70.00
DISTANCE	681.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: Lake Street to Indian Trail Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	14690.94	277.47	111.59	3658.66	69.10	27.79
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.91	15.68	11.72	26.88	9.64	5.68
Distance	-22.12	-22.12	-22.12	-22.12	-22.12	-22.12
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

ADT	260000.00
SPEED	70.00
DISTANCE	1467.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: Lake Street to Indian Trail Road
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	14690.94	277.47	111.59	3658.66	69.10	27.79
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	32.91	15.68	11.72	26.88	9.64	5.68
Distance	-27.12	-27.12	-27.12	-27.12	-27.12	-27.12
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

ADT	260000.00
SPEED	70.00
DISTANCE	3161.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Interstate 15
Segment: Indian Trail Road to Temescal Canyon Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	15368.98	290.28	116.74	3827.52	72.29	29.07
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	33.11	15.87	11.92	27.07	9.83	5.88
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	80.28	68.79	68.12	74.24	62.75	62.08

ADT	272000.00
SPEED	70.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	82.74
DAY LEQ	80.82
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 80.82 NIGHT LEQ 74.78

LDN 82.7

Roadway: Interstate 15
Segment: Indian Trail Road to Temescal Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	15368.98	290.28	116.74	3827.52	72.29	29.07
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	33.11	15.87	11.92	27.07	9.83	5.88
Distance	-17.32	-17.32	-17.32	-17.32	-17.32	-17.32
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.58	56.09	55.43	61.55	50.05	49.39

ADT	272000.00
SPEED	70.00
DISTANCE	702.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Interstate 15
Segment: Indian Trail Road to Temescal Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	15368.98	290.28	116.74	3827.52	72.29	29.07
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	33.11	15.87	11.92	27.07	9.83	5.88
Distance	-22.32	-22.32	-22.32	-22.32	-22.32	-22.32
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.58	51.09	50.43	56.55	45.05	44.39

ADT	272000.00
SPEED	70.00
DISTANCE	1512.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Interstate 15
Segment: Indian Trail Road to Temescal Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	15368.98	290.28	116.74	3827.52	72.29	29.07
Speed in MPH	70.00	70.00	70.00	70.00	70.00	70.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	76.79	82.53	85.83	76.79	82.53	85.83
ADJUSTMENTS						
Flow	33.11	15.87	11.92	27.07	9.83	5.88
Distance	-27.32	-27.32	-27.32	-27.32	-27.32	-27.32
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.58	46.09	45.43	51.55	40.05	39.39

ADT	272000.00
SPEED	70.00
DISTANCE	3258.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: La Strada
Segment: Camino Del Norte to N of Camino Del Norte

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1186.58	22.41	9.01	295.51	5.58	2.24
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	23.90	6.67	2.71	17.87	0.63	-3.33
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	63.63	54.67	55.23	57.59	48.63	49.19

ADT	21000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	66.60
DAY LEQ	64.67
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 64.67 NIGHT LEQ 58.64

LDN 66.6

Roadway: La Strada
Segment: Camino Del Norte to N of Camino Del Norte
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1186.58	22.41	9.01	295.51	5.58	2.24
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	23.90	6.67	2.71	17.87	0.63	-3.33
Distance	-1.17	-1.17	-1.17	-1.17	-1.17	-1.17
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.12	58.68	61.04	52.08	52.64

ADT	21000.00
SPEED	45.00
DISTANCE	58.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: La Strada
Segment: Camino Del Norte to N of Camino Del Norte
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1186.58	22.41	9.01	295.51	5.58	2.24
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	23.90	6.67	2.71	17.87	0.63	-3.33
Distance	-6.17	-6.17	-6.17	-6.17	-6.17	-6.17
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

ADT	21000.00
SPEED	45.00
DISTANCE	126.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: La Strada
Segment: Camino Del Norte to N of Camino Del Norte
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1186.58	22.41	9.01	295.51	5.58	2.24
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	23.90	6.67	2.71	17.87	0.63	-3.33
Distance	-11.17	-11.17	-11.17	-11.17	-11.17	-11.17
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	21000.00
SPEED	45.00
DISTANCE	273.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: La Strada
Segment: N of Camino Del Norte to W of Via Scenica

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	22.14	4.91	0.95	16.11	-1.13	-5.09
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.87	52.91	53.47	55.83	46.87	47.43

ADT	14000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	64.84
DAY LEQ	62.91
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 62.91 NIGHT LEQ 56.87

LDN 64.8

Roadway: La Strada
Segment: N of Camino Del Norte to W of Via Scenica
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	22.14	4.91	0.95	16.11	-1.13	-5.09
Distance	0.58	0.58	0.58	0.58	0.58	0.58
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.67	61.03	52.07	52.64

ADT	14000.00
SPEED	45.00
DISTANCE	45.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: La Strada
Segment: N of Camino Del Norte to W of Via Scenica
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	22.14	4.91	0.95	16.11	-1.13	-5.09
Distance	-4.42	-4.42	-4.42	-4.42	-4.42	-4.42
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.07	53.11	53.68	56.04	47.08	47.64

ADT	14000.00
SPEED	45.00
DISTANCE	96.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: La Strada
Segment: N of Camino Del Norte to W of Via Scenica
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	22.14	4.91	0.95	16.11	-1.13	-5.09
Distance	-9.41	-9.41	-9.41	-9.41	-9.41	-9.41
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.11	48.68	51.04	42.08	42.64

ADT	14000.00
SPEED	45.00
DISTANCE	208.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: La Strada
Segment: W of Via Scenica to Via Scenica

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	12000.00
-							SPEED	45.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	64.17
ADJUSTMENTS							DAY LEQ	62.24
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.20	52.24	52.80	55.16	46.20	46.76	GRADE dB	0.00

DAY LEQ 62.24 NIGHT LEQ 56.21

LDN 64.2

Roadway: La Strada
Segment: W of Via Scenica to Via Scenica
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	12000.00
-							SPEED	45.00
							DISTANCE	40.60
INPUT PARAMETERS								
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76		
Distance	1.25	1.25	1.25	1.25	1.25	1.25		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: La Strada
Segment: W of Via Scenica to Via Scenica
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	12000.00
-							SPEED	40.00
							DISTANCE	87.40
INPUT PARAMETERS								
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76		
Distance	-3.74	-3.74	-3.74	-3.74	-3.74	-3.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: La Strada
Segment: W of Via Scenica to Via Scenica
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	12000.00
-							SPEED	45.00
							DISTANCE	188.30
INPUT PARAMETERS								
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76		
Distance	-8.74	-8.74	-8.74	-8.74	-8.74	-8.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: La Strada
Segment: Via Scenica to Summerhill Drive

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3000.00
							SPEED	35.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	55.47
ADJUSTMENTS							DAY LEQ	53.54
Flow	16.55	-0.69	-4.65	10.51	-6.73	-10.69		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	52.03	44.51	45.78	46.00	38.48	39.74	GRADE dB	0.00

DAY LEQ 53.54 NIGHT LEQ 47.50

LDN 55.5

Roadway: La Strada
Segment: Via Scenica to Summerhill Drive
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3000.00
							SPEED	35.00
-							DISTANCE	10.70
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	70.03
ADJUSTMENTS							DAY LEQ	68.10
Flow	16.55	-0.69	-4.65	10.51	-6.73	-10.69		
Distance	9.94	9.94	9.94	9.94	9.94	9.94		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.59	59.07	60.34	60.56	53.04	54.30	GRADE dB	0.00

DAY LEQ 68.10 NIGHT LEQ 62.06

LDN 70.0

Roadway: La Strada
Segment: Via Scenica to Summerhill Drive
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3000.00
							SPEED	35.00
-							DISTANCE	23.00
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.11
Flow	16.55	-0.69	-4.65	10.51	-6.73	-10.69		
Distance	4.95	4.95	4.95	4.95	4.95	4.95		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.61	54.09	55.35	55.57	48.05	49.31	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

Roadway: La Strada
Segment: Via Scenica to Summerhill Drive
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	3000.00
							SPEED	35.00
-							DISTANCE	49.50
INPUT PARAMETERS								
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	16.55	-0.69	-4.65	10.51	-6.73	-10.69		
Distance	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.62	49.10	50.36	50.58	43.06	44.32	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lake Street
Segment: Walker Canyon Road to I-15 NB Ramps

		DAYTIME			NIGHTTIME			
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	29000.00
							SPEED	50.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	69.17
ADJUSTMENTS							DAY LEQ	67.24
Flow	24.85	7.61	3.66	18.81	1.57	-2.38		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.35	56.78	57.05	60.31	50.75	51.02	GRADE dB	0.00

DAY LEQ 67.24 NIGHT LEQ 61.20

LDN 69.2

Roadway: Lake Street
Segment: Walker Canyon Road to I-15 NB Ramps
Calculation for Distance to 70 Ldn Noise Contour

		DAYTIME			NIGHTTIME			
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	29000.00
							SPEED	50.00
-							DISTANCE	87.40
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	24.85	7.61	3.66	18.81	1.57	-2.38		
Distance	-3.74	-3.74	-3.74	-3.74	-3.74	-3.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.23	57.66	57.93	61.19	51.62	51.89	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lake Street
Segment: Walker Canyon Road to I-15 NB Ramps
Calculation for Distance to 65 Ldn Noise Contour

		DAYTIME			NIGHTTIME			
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	29000.00
							SPEED	50.00
-							DISTANCE	188.30
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	24.85	7.61	3.66	18.81	1.57	-2.38		
Distance	-8.74	-8.74	-8.74	-8.74	-8.74	-8.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.23	52.66	52.93	56.19	46.62	46.89	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lake Street
Segment: Walker Canyon Road to I-15 NB Ramps
Calculation for Distance to 60 Ldn Noise Contour

		DAYTIME			NIGHTTIME			
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	29000.00
							SPEED	50.00
-							DISTANCE	405.50
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	24.85	7.61	3.66	18.81	1.57	-2.38		
Distance	-13.74	-13.74	-13.74	-13.74	-13.74	-13.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lake Street
Segment: I-15 NB Ramps to I-15 SB Ramps

		DAYTIME			NIGHTTIME			
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	53000.00
							SPEED	50.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2994.69	56.56	22.75	745.80	14.09	5.67	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	71.79
ADJUSTMENTS							DAY LEQ	69.86
Flow	27.47	10.23	6.27	21.43	4.19	0.24		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	68.97	59.40	59.67	62.93	53.37	53.64	GRADE dB	0.00

DAY LEQ 69.86 NIGHT LEQ 63.82

LDN 71.8

Roadway: Lake Street
Segment: I-15 NB Ramps to I-15 SB Ramps
Calculation for Distance to 70 Ldn Noise Contour

		DAYTIME			NIGHTTIME			
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	53000.00
							SPEED	50.00
-							DISTANCE	130.60
INPUT PARAMETERS								
Vehicles per hour	2994.69	56.56	22.75	745.80	14.09	5.67	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	27.47	10.23	6.27	21.43	4.19	0.24		
Distance	-6.36	-6.36	-6.36	-6.36	-6.36	-6.36		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.23	57.66	57.93	61.19	51.63	51.90	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lake Street
Segment: I-15 NB Ramps to I-15 SB Ramps
Calculation for Distance to 65 Ldn Noise Contour

		DAYTIME			NIGHTTIME			
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	53000.00
							SPEED	50.00
-							DISTANCE	281.40
INPUT PARAMETERS								
Vehicles per hour	2994.69	56.56	22.75	745.80	14.09	5.67	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	27.47	10.23	6.27	21.43	4.19	0.24		
Distance	-11.36	-11.36	-11.36	-11.36	-11.36	-11.36		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.23	52.66	52.93	56.19	46.63	46.90	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lake Street
Segment: I-15 NB Ramps to I-15 SB Ramps
Calculation for Distance to 60 Ldn Noise Contour

		DAYTIME			NIGHTTIME			
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	53000.00
							SPEED	50.00
-							DISTANCE	606.20
INPUT PARAMETERS								
Vehicles per hour	2994.69	56.56	22.75	745.80	14.09	5.67	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	27.47	10.23	6.27	21.43	4.19	0.24		
Distance	-16.36	-16.36	-16.36	-16.36	-16.36	-16.36		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lake Street
Segment: I-15 SB Ramps to Road "A"

	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	4068.26	76.84	30.90	1013.17	19.14	7.70
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	28.80	11.56	7.60	22.76	5.52	1.57
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	70.30	60.73	61.00	64.26	54.70	54.97

DAY LEQ 71.19 NIGHT LEQ 65.15

LDN 73.1

ADT	72000.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	73.12
DAY LEQ	71.19
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Lake Street
Segment: I-15 SB Ramps to Road "A"
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	4068.26	76.84	30.90	1013.17	19.14	7.70
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	28.80	11.56	7.60	22.76	5.52	1.57
Distance	-7.69	-7.69	-7.69	-7.69	-7.69	-7.69
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.23	57.66	57.93	61.19	51.63	51.90

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	72000.00
SPEED	50.00
DISTANCE	160.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Lake Street
Segment: I-15 SB Ramps to Road "A"
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	4068.26	76.84	30.90	1013.17	19.14	7.70
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	28.80	11.56	7.60	22.76	5.52	1.57
Distance	-12.69	-12.69	-12.69	-12.69	-12.69	-12.69
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.63	46.90

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	72000.00
SPEED	40.00
DISTANCE	345.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Lake Street
Segment: I-15 SB Ramps to Road "A"
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	4068.26	76.84	30.90	1013.17	19.14	7.70
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	28.80	11.56	7.60	22.76	5.52	1.57
Distance	-17.69	-17.69	-17.69	-17.69	-17.69	-17.69
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	72000.00
SPEED	50.00
DISTANCE	743.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Lake Street
Segment: Road "A" to S of Road "A"

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	41000.00
							SPEED	50.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2316.65	43.76	17.60	576.94	10.90	4.38	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.67
ADJUSTMENTS							DAY LEQ	68.75
Flow	26.35	9.11	5.16	20.32	3.08	-0.88		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.85	58.29	58.56	61.82	52.25	52.52	GRADE dB	0.00

DAY LEQ 68.75 NIGHT LEQ 62.71

LDN 70.7

Roadway: Lake Street
Segment: Road "A" to S of Road "A"
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	41000.00
							SPEED	50.00
-							DISTANCE	110.10
INPUT PARAMETERS								
Vehicles per hour	2316.65	43.76	17.60	576.94	10.90	4.38	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	26.35	9.11	5.16	20.32	3.08	-0.88		
Distance	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.23	57.66	57.93	61.19	51.62	51.89	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lake Street
Segment: Road "A" to S of Road "A"
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	41000.00
							SPEED	50.00
-							DISTANCE	237.10
INPUT PARAMETERS								
Vehicles per hour	2316.65	43.76	17.60	576.94	10.90	4.38	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	26.35	9.11	5.16	20.32	3.08	-0.88		
Distance	-10.24	-10.24	-10.24	-10.24	-10.24	-10.24		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.23	52.66	52.93	56.19	46.63	46.90	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lake Street
Segment: Road "A" to S of Road "A"
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	41000.00
							SPEED	50.00
-							DISTANCE	510.80
INPUT PARAMETERS								
Vehicles per hour	2316.65	43.76	17.60	576.94	10.90	4.38	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	26.35	9.11	5.16	20.32	3.08	-0.88		
Distance	-15.24	-15.24	-15.24	-15.24	-15.24	-15.24		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lake Street
Segment: N of Nichols Road to Nichols Road

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
INPUT PARAMETERS							ADT	47000.00
							SPEED	50.00
							DISTANCE	100.00
Vehicles per hour	2655.67	50.16	20.17	661.37	12.49	5.02	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	71.27
ADJUSTMENTS							DAY LEQ	69.34
Flow	26.95	9.71	5.75	20.91	3.67	-0.29		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	68.45	58.88	59.15	62.41	52.84	53.11	GRADE dB	0.00

DAY LEQ 69.34 NIGHT LEQ 63.30

LDN 71.3

Roadway: Lake Street
Segment: N of Nichols Road to Nichols Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
INPUT PARAMETERS							ADT	47000.00
							SPEED	50.00
							DISTANCE	120.60
Vehicles per hour	2655.67	50.16	20.17	661.37	12.49	5.02	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	26.95	9.71	5.75	20.91	3.67	-0.29		
Distance	-5.84	-5.84	-5.84	-5.84	-5.84	-5.84		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.23	57.66	57.93	61.19	51.62	51.89	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lake Street
Segment: N of Nichols Road to Nichols Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
INPUT PARAMETERS							ADT	47000.00
							SPEED	50.00
							DISTANCE	259.70
Vehicles per hour	2655.67	50.16	20.17	661.37	12.49	5.02	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	26.95	9.71	5.75	20.91	3.67	-0.29		
Distance	-10.84	-10.84	-10.84	-10.84	-10.84	-10.84		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.23	52.66	52.93	56.19	46.63	46.90	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lake Street
Segment: N of Nichols Road to Nichols Road
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
INPUT PARAMETERS							ADT	47000.00
							SPEED	50.00
							DISTANCE	559.50
Vehicles per hour	2655.67	50.16	20.17	661.37	12.49	5.02	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	26.95	9.71	5.75	20.91	3.67	-0.29		
Distance	-15.84	-15.84	-15.84	-15.84	-15.84	-15.84		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lake Street
Segment: Nichols Road to Alberhill Ranch Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2203.64	41.62	16.74	548.80	10.37	4.17
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	26.14	8.90	4.94	20.10	2.86	-1.10
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.64	58.07	58.34	61.60	52.03	52.30

ADT	39000.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.46
DAY LEQ	68.53
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.53 NIGHT LEQ 62.49

LDN 70.5

Roadway: Lake Street
Segment: Nichols Road to Alberhill Ranch Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2203.64	41.62	16.74	548.80	10.37	4.17
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	26.14	8.90	4.94	20.10	2.86	-1.10
Distance	-5.03	-5.03	-5.03	-5.03	-5.03	-5.03
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.23	57.66	57.93	61.19	51.62	51.89

ADT	39000.00
SPEED	50.00
DISTANCE	106.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lake Street
Segment: Nichols Road to Alberhill Ranch Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2203.64	41.62	16.74	548.80	10.37	4.17
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	26.14	8.90	4.94	20.10	2.86	-1.10
Distance	-10.03	-10.03	-10.03	-10.03	-10.03	-10.03
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.62	46.90

ADT	39000.00
SPEED	50.00
DISTANCE	229.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lake Street
Segment: Nichols Road to Alberhill Ranch Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2203.64	41.62	16.74	548.80	10.37	4.17
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	26.14	8.90	4.94	20.10	2.86	-1.10
Distance	-15.03	-15.03	-15.03	-15.03	-15.03	-15.03
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

ADT	39000.00
SPEED	50.00
DISTANCE	494.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lake Street
Segment: Alberhill Ranch Road to Lakeshore Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	43000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2429.65	45.89	18.46	605.09	11.43	4.60	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	69.71
ADJUSTMENTS							DAY LEQ	67.79
Flow	27.02	9.78	5.82	20.98	3.74	-0.21		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.74	57.78	58.34	60.70	51.74	52.31	GRADE dB	0.00

DAY LEQ 67.79 NIGHT LEQ 61.75

LDN 69.7

Roadway: Lake Street
Segment: Alberhill Ranch Road to Lakeshore Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	43000.00
							SPEED	45.00
-							DISTANCE	95.00
INPUT PARAMETERS								
Vehicles per hour	2429.65	45.89	18.46	605.09	11.43	4.60	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	27.02	9.78	5.82	20.98	3.74	-0.21		
Distance	-4.29	-4.29	-4.29	-4.29	-4.29	-4.29		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.08	58.12	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lake Street
Segment: Alberhill Ranch Road to Lakeshore Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	43000.00
							SPEED	45.00
-							DISTANCE	204.60
INPUT PARAMETERS								
Vehicles per hour	2429.65	45.89	18.46	605.09	11.43	4.60	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	27.02	9.78	5.82	20.98	3.74	-0.21		
Distance	-9.28	-9.28	-9.28	-9.28	-9.28	-9.28		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lake Street
Segment: Alberhill Ranch Road to Lakeshore Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	43000.00
							SPEED	45.00
-							DISTANCE	440.80
INPUT PARAMETERS								
Vehicles per hour	2429.65	45.89	18.46	605.09	11.43	4.60	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	27.02	9.78	5.82	20.98	3.74	-0.21		
Distance	-14.28	-14.28	-14.28	-14.28	-14.28	-14.28		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lakeshore Drive
Segment: Lake Street to Terra Cotta Road

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	34000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1921.12	36.28	14.59	478.44	9.04	3.63	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	68.69
ADJUSTMENTS							DAY LEQ	66.77
Flow	26.00	8.76	4.80	19.96	2.72	-1.23		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	65.72	56.76	57.32	59.68	50.72	51.29	GRADE dB	0.00

DAY LEQ 66.77 NIGHT LEQ 60.73

LDN 68.7

Roadway: Lakeshore Drive
Segment: Lake Street to Terra Cotta Road
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	34000.00
							SPEED	45.00
-							DISTANCE	81.30
INPUT PARAMETERS								
Vehicles per hour	1921.12	36.28	14.59	478.44	9.04	3.63	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	26.00	8.76	4.80	19.96	2.72	-1.23		
Distance	-3.27	-3.27	-3.27	-3.27	-3.27	-3.27		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lakeshore Drive
Segment: Lake Street to Terra Cotta Road
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	34000.00
							SPEED	45.00
-							DISTANCE	175.00
INPUT PARAMETERS								
Vehicles per hour	1921.12	36.28	14.59	478.44	9.04	3.63	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	26.00	8.76	4.80	19.96	2.72	-1.23		
Distance	-8.27	-8.27	-8.27	-8.27	-8.27	-8.27		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lakeshore Drive
Segment: Lake Street to Terra Cotta Road
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	34000.00
							SPEED	45.00
-							DISTANCE	377.00
INPUT PARAMETERS								
Vehicles per hour	1921.12	36.28	14.59	478.44	9.04	3.63	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	26.00	8.76	4.80	19.96	2.72	-1.23		
Distance	-13.27	-13.27	-13.27	-13.27	-13.27	-13.27		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lakeshore Drive
Segment: Terra Cotta Road to Machado Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	39000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2203.64	41.62	16.74	548.80	10.37	4.17	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	69.29
ADJUSTMENTS							DAY LEQ	67.36
Flow	26.59	9.36	5.40	20.56	3.32	-0.64		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.32	57.36	57.92	60.28	51.32	51.88	GRADE dB	0.00

DAY LEQ 67.36 NIGHT LEQ 61.32

LDN 69.3

Roadway: Lakeshore Drive
Segment: Terra Cotta Road to Machado Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	39000.00
							SPEED	45.00
-							DISTANCE	89.00
INPUT PARAMETERS								
Vehicles per hour	2203.64	41.62	16.74	548.80	10.37	4.17	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	26.59	9.36	5.40	20.56	3.32	-0.64		
Distance	-3.86	-3.86	-3.86	-3.86	-3.86	-3.86		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.08	58.12	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lakeshore Drive
Segment: Terra Cotta Road to Machado Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	39000.00
							SPEED	45.00
-							DISTANCE	191.80
INPUT PARAMETERS								
Vehicles per hour	2203.64	41.62	16.74	548.80	10.37	4.17	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	26.59	9.36	5.40	20.56	3.32	-0.64		
Distance	-8.86	-8.86	-8.86	-8.86	-8.86	-8.86		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lakeshore Drive
Segment: Terra Cotta Road to Machado Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	39000.00
							SPEED	45.00
-							DISTANCE	413.10
INPUT PARAMETERS								
Vehicles per hour	2203.64	41.62	16.74	548.80	10.37	4.17	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	26.59	9.36	5.40	20.56	3.32	-0.64		
Distance	-13.86	-13.86	-13.86	-13.86	-13.86	-13.86		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Nichols Road
Segment: Machado Street to Gunnerson Street

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.73	8.50	4.54	19.70	2.46	-1.50
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	65.46	56.50	57.06	59.42	50.46	51.02

ADT	32000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	68.43
DAY LEQ	66.50
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 66.50 NIGHT LEQ 60.46

LDN 68.4

Roadway: Nichols Road
Segment: Machado Street to Gunnerson Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.73	8.50	4.54	19.70	2.46	-1.50
Distance	-3.00	-3.00	-3.00	-3.00	-3.00	-3.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.12	58.68	61.04	52.08	52.64

ADT	32000.00
SPEED	45.00
DISTANCE	78.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Nichols Road
Segment: Machado Street to Gunnerson Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.73	8.50	4.54	19.70	2.46	-1.50
Distance	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.07	53.11	53.68	56.04	47.08	47.64

ADT	32000.00
SPEED	40.00
DISTANCE	168.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Nichols Road
Segment: Machado Street to Gunnerson Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.73	8.50	4.54	19.70	2.46	-1.50
Distance	-13.00	-13.00	-13.00	-13.00	-13.00	-13.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	32000.00
SPEED	45.00
DISTANCE	362.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lakeshore Drive
Segment: Gunnerson Street to Riverside Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1695.11	32.02	12.88	422.15	7.97	3.21
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.45	8.22	4.26	19.42	2.18	-1.78
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	65.18	56.22	56.78	59.14	50.18	50.74

ADT	30000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	68.15
DAY LEQ	66.22
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 66.22 NIGHT LEQ 60.18

LDN 68.2

Roadway: Lakeshore Drive
Segment: Gunnerson Street to Riverside Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1695.11	32.02	12.88	422.15	7.97	3.21
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.45	8.22	4.26	19.42	2.18	-1.78
Distance	-2.73	-2.73	-2.73	-2.73	-2.73	-2.73
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.67	61.03	52.07	52.64

ADT	30000.00
SPEED	45.00
DISTANCE	74.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lakeshore Drive
Segment: Gunnerson Street to Riverside Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1695.11	32.02	12.88	422.15	7.97	3.21
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.45	8.22	4.26	19.42	2.18	-1.78
Distance	-7.72	-7.72	-7.72	-7.72	-7.72	-7.72
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

ADT	30000.00
SPEED	45.00
DISTANCE	161.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lakeshore Drive
Segment: Gunnerson Street to Riverside Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1695.11	32.02	12.88	422.15	7.97	3.21
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.45	8.22	4.26	19.42	2.18	-1.78
Distance	-12.72	-12.72	-12.72	-12.72	-12.72	-12.72
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	30000.00
SPEED	45.00
DISTANCE	346.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lakeshore Drive
Segment: Riverside Drive to Chaney Street

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	904.06	17.08	6.87	225.15	4.25	1.71
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	22.72	5.49	1.53	16.69	-0.55	-4.51
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.45	53.49	54.05	56.41	47.45	48.01

ADT	16000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.42
DAY LEQ	63.49
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.49 NIGHT LEQ 57.45

LDN 65.4

Roadway: Lakeshore Drive
Segment: Riverside Drive to Chaney Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	904.06	17.08	6.87	225.15	4.25	1.71
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	22.72	5.49	1.53	16.69	-0.55	-4.51
Distance	0.00	0.00	0.00	0.00	0.00	0.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.67	61.03	52.07	52.63

ADT	16000.00
SPEED	45.00
DISTANCE	49.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lakeshore Drive
Segment: Riverside Drive to Chaney Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	904.06	17.08	6.87	225.15	4.25	1.71
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	22.72	5.49	1.53	16.69	-0.55	-4.51
Distance	-4.99	-4.99	-4.99	-4.99	-4.99	-4.99
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.07	53.11	53.68	56.04	47.08	47.64

ADT	16000.00
SPEED	45.00
DISTANCE	105.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lakeshore Drive
Segment: Riverside Drive to Chaney Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME		
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	904.06	17.08	6.87	225.15	4.25	1.71
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	22.72	5.49	1.53	16.69	-0.55	-4.51
Distance	-9.99	-9.99	-9.99	-9.99	-9.99	-9.99
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	16000.00
SPEED	45.00
DISTANCE	228.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lakeshore Drive
Segment: Chaney Street to Graham Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	17000.00
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82	SPEED	45.00
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	DISTANCE	100.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	22.99	5.75	1.79	16.95	-0.29	-4.24	Ldn	65.68
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62	DAY LEQ	63.76
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.71	53.75	54.31	56.67	47.71	48.28	GRADE dB	0.00

DAY LEQ 63.76 NIGHT LEQ 57.72

LDN 65.7

Roadway: Lakeshore Drive
Segment: Chaney Street to Graham Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	17000.00
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82	SPEED	45.00
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	DISTANCE	51.20
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	22.99	5.75	1.79	16.95	-0.29	-4.24	Ldn	70.04
Distance	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	DAY LEQ	68.12
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.68	61.04	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lakeshore Drive
Segment: Chaney Street to Graham Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	17000.00
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82	SPEED	45.00
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	DISTANCE	110.30
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	22.99	5.75	1.79	16.95	-0.29	-4.24	Ldn	65.04
Distance	-5.26	-5.26	-5.26	-5.26	-5.26	-5.26	DAY LEQ	63.12
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.07	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lakeshore Drive
Segment: Chaney Street to Graham Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	17000.00
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82	SPEED	45.00
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	DISTANCE	237.50
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	LEFT	-90.00
ADJUSTMENTS							RIGHT	90.00
Flow	22.99	5.75	1.79	16.95	-0.29	-4.24	Ldn	60.05
Distance	-10.26	-10.26	-10.26	-10.26	-10.26	-10.26	DAY LEQ	58.12
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lakeshore Drive
Segment: Main Street to Avenue 6

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	42000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2373.15	44.82	18.03	591.01	11.16	4.49	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	69.61
ADJUSTMENTS							DAY LEQ	67.68
Flow	26.92	9.68	5.72	20.88	3.64	-0.32		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.64	57.68	58.24	60.60	51.64	52.21	GRADE dB	0.00

DAY LEQ 67.68 NIGHT LEQ 61.65

LDN 69.6

Roadway: Lakeshore Drive
Segment: Main Street to Avenue 6
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	42000.00
							SPEED	45.00
-							DISTANCE	93.50
INPUT PARAMETERS								
Vehicles per hour	2373.15	44.82	18.03	591.01	11.16	4.49	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	26.92	9.68	5.72	20.88	3.64	-0.32		
Distance	-4.18	-4.18	-4.18	-4.18	-4.18	-4.18		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.08	58.12	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lakeshore Drive
Segment: Main Street to Avenue 6
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	42000.00
							SPEED	45.00
-							DISTANCE	201.50
INPUT PARAMETERS								
Vehicles per hour	2373.15	44.82	18.03	591.01	11.16	4.49	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	26.92	9.68	5.72	20.88	3.64	-0.32		
Distance	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lakeshore Drive
Segment: Main Street to Avenue 6
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	42000.00
							SPEED	45.00
-							DISTANCE	434.00
INPUT PARAMETERS								+
Vehicles per hour	2373.15	44.82	18.03	591.01	11.16	4.49	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	26.92	9.68	5.72	20.88	3.64	-0.32		
Distance	-14.18	-14.18	-14.18	-14.18	-14.18	-14.18		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lakeshore Drive
Segment: Avenue 6 to Diamond Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	42000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2373.15	44.82	18.03	591.01	11.16	4.49	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	69.61
ADJUSTMENTS							DAY LEQ	67.68
Flow	26.92	9.68	5.72	20.88	3.64	-0.32		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.64	57.68	58.24	60.60	51.64	52.21	GRADE dB	0.00

DAY LEQ 67.68 NIGHT LEQ 61.65

LDN 69.6

Roadway: Lakeshore Drive
Segment: Avenue 6 to Diamond Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	42000.00
							SPEED	45.00
-							DISTANCE	93.50
INPUT PARAMETERS								
Vehicles per hour	2373.15	44.82	18.03	591.01	11.16	4.49	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	26.92	9.68	5.72	20.88	3.64	-0.32		
Distance	-4.18	-4.18	-4.18	-4.18	-4.18	-4.18		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.08	58.12	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lakeshore Drive
Segment: Avenue 6 to Diamond Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	42000.00
							SPEED	45.00
-							DISTANCE	201.50
INPUT PARAMETERS								
Vehicles per hour	2373.15	44.82	18.03	591.01	11.16	4.49	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	26.92	9.68	5.72	20.88	3.64	-0.32		
Distance	-9.18	-9.18	-9.18	-9.18	-9.18	-9.18		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lakeshore Drive
Segment: Avenue 6 to Diamond Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	42000.00
							SPEED	45.00
-							DISTANCE	434.00
INPUT PARAMETERS								
Vehicles per hour	2373.15	44.82	18.03	591.01	11.16	4.49	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	26.92	9.68	5.72	20.88	3.64	-0.32		
Distance	-14.18	-14.18	-14.18	-14.18	-14.18	-14.18		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Limited Street
Segment: Lakeshore Drive to Langstaff Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	565.04	10.67	4.29	140.72	2.66	1.07
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	21.77	4.54	0.58	15.74	-1.50	-5.46
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.26	49.74	51.01	51.23	43.71	44.97

ADT	10000.00
SPEED	35.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.70
DAY LEQ	58.77
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.77 NIGHT LEQ 52.73

LDN 60.7

Roadway: Limited Street
Segment: Lakeshore Drive to Langstaff Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	565.04	10.67	4.29	140.72	2.66	1.07
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	21.77	4.54	0.58	15.74	-1.50	-5.46
Distance	4.73	4.73	4.73	4.73	4.73	4.73
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.61	59.09	60.36	60.58	53.06	54.32

ADT	10000.00
SPEED	35.00
DISTANCE	23.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Limited Street
Segment: Lakeshore Drive to Langstaff Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	565.04	10.67	4.29	140.72	2.66	1.07
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	21.77	4.54	0.58	15.74	-1.50	-5.46
Distance	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.61	54.09	55.35	55.57	48.05	49.32

ADT	10000.00
SPEED	35.00
DISTANCE	51.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Limited Street
Segment: Lakeshore Drive to Langstaff Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	565.04	10.67	4.29	140.72	2.66	1.07
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	21.77	4.54	0.58	15.74	-1.50	-5.46
Distance	-5.27	-5.27	-5.27	-5.27	-5.27	-5.27
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.61	49.09	50.36	50.58	43.06	44.32

ADT	10000.00
SPEED	35.00
DISTANCE	110.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.04
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Limited Street
Segment: Langstaff Street to Spring Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14000.00
							SPEED	35.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	62.16
ADJUSTMENTS							DAY LEQ	60.23
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	58.72	51.20	52.47	52.69	45.17	46.43	GRADE dB	0.00

DAY LEQ 60.23 NIGHT LEQ 54.19

LDN 62.2

Roadway: Limited Street
Segment: Langstaff Street to Spring Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14000.00
							SPEED	35.00
-							DISTANCE	29.80
INPUT PARAMETERS								
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00		
Distance	3.27	3.27	3.27	3.27	3.27	3.27		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.61	59.09	60.35	60.57	53.05	54.32	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Limited Street
Segment: Langstaff Street to Spring Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14000.00
							SPEED	35.00
-							DISTANCE	64.20
INPUT PARAMETERS								
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.12
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00		
Distance	-1.73	-1.73	-1.73	-1.73	-1.73	-1.73		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.61	54.09	55.35	55.57	48.05	49.32	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Limited Street
Segment: Langstaff Street to Spring Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	14000.00
							SPEED	35.00
-							DISTANCE	138.20
INPUT PARAMETERS								
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00		
Distance	-6.73	-6.73	-6.73	-6.73	-6.73	-6.73		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.62	49.10	50.36	50.58	43.06	44.32	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Limited Street
Segment: Spring Street to Main Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	16.55	-0.69	-4.65	10.51	-6.73	-10.69
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	52.03	44.51	45.78	46.00	38.48	39.74

DAY LEQ 53.54 NIGHT LEQ 47.50

LDN 55.5

ADT	3000.00
SPEED	35.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	55.47
DAY LEQ	53.54
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Limited Street
Segment: Spring Street to Main Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	16.55	-0.69	-4.65	10.51	-6.73	-10.69
Distance	9.94	9.94	9.94	9.94	9.94	9.94
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.59	59.07	60.34	60.56	53.04	54.30

DAY LEQ 68.10 NIGHT LEQ 62.06

LDN 70.0

ADT	3000.00
SPEED	35.00
DISTANCE	10.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.03
DAY LEQ	68.10
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Limited Street
Segment: Spring Street to Main Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	16.55	-0.69	-4.65	10.51	-6.73	-10.69
Distance	4.95	4.95	4.95	4.95	4.95	4.95
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.61	54.09	55.35	55.57	48.05	49.31

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

ADT	3000.00
SPEED	40.00
DISTANCE	23.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Limited Street
Segment: Spring Street to Main Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	169.51	3.20	1.29	42.22	0.80	0.32
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	16.55	-0.69	-4.65	10.51	-6.73	-10.69
Distance	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.62	49.10	50.36	50.58	43.06	44.32

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	3000.00
SPEED	35.00
DISTANCE	49.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Lincoln Street
Segment: Nichols Road to S of Nichols Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	26000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	66.25
ADJUSTMENTS							DAY LEQ	64.32
Flow	25.34	8.11	4.15	19.31	2.07	-1.89		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	63.08	54.80	55.69	57.05	48.76	49.65	GRADE dB	0.00

DAY LEQ 64.32 NIGHT LEQ 58.29

LDN 66.3

Roadway: Lincoln Street
Segment: Nichols Road to S of Nichols Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	26000.00
							SPEED	40.00
-							DISTANCE	55.90
INPUT PARAMETERS								
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	25.34	8.11	4.15	19.31	2.07	-1.89		
Distance	-0.83	-0.83	-0.83	-0.83	-0.83	-0.83		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.87	58.59	59.48	60.84	52.55	53.44	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lincoln Street
Segment: Nichols Road to S of Nichols Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	26000.00
							SPEED	40.00
-							DISTANCE	120.30
INPUT PARAMETERS								
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.34	8.11	4.15	19.31	2.07	-1.89		
Distance	-5.82	-5.82	-5.82	-5.82	-5.82	-5.82		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lincoln Street
Segment: Nichols Road to S of Nichols Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	26000.00
							SPEED	40.00
-							DISTANCE	259.20
INPUT PARAMETERS								
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.34	8.11	4.15	19.31	2.07	-1.89		
Distance	-10.83	-10.83	-10.83	-10.83	-10.83	-10.83		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.48	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lincoln Street
Segment: N of Lake Street to Lake Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	22000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.53
ADJUSTMENTS							DAY LEQ	63.60
Flow	24.62	7.38	3.42	18.58	1.34	-2.61		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.36	54.07	54.96	56.32	48.04	48.93	GRADE dB	0.00

DAY LEQ 63.60 NIGHT LEQ 57.56

LDN 65.5

Roadway: Lincoln Street
Segment: N of Lake Street to Lake Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	22000.00
							SPEED	40.00
-							DISTANCE	50.00
INPUT PARAMETERS								
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	24.62	7.38	3.42	18.58	1.34	-2.61		
Distance	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.87	58.59	59.48	60.84	52.55	53.44	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Lincoln Street
Segment: N of Lake Street to Lake Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	22000.00
							SPEED	40.00
-							DISTANCE	107.60
INPUT PARAMETERS								
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	24.62	7.38	3.42	18.58	1.34	-2.61		
Distance	-5.10	-5.10	-5.10	-5.10	-5.10	-5.10		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.60	54.49	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Lincoln Street
Segment: N of Lake Street to Lake Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	22000.00
							SPEED	40.00
-							DISTANCE	231.80
INPUT PARAMETERS								
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	24.62	7.38	3.42	18.58	1.34	-2.61		
Distance	-10.10	-10.10	-10.10	-10.10	-10.10	-10.10		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.60	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lincoln Street
Segment: Lake Street to Machado Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	8000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	452.03	8.54	3.43	112.57	2.13	0.86	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	61.13
ADJUSTMENTS							DAY LEQ	59.21
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.96	49.68	50.57	51.93	43.64	44.53	GRADE dB	0.00

DAY LEQ 59.21 NIGHT LEQ 53.17

LDN 61.1

Roadway: Lincoln Street
Segment: Lake Street to Machado Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	8000.00
							SPEED	40.00
-							DISTANCE	25.50
INPUT PARAMETERS								
Vehicles per hour	452.03	8.54	3.43	112.57	2.13	0.86	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01		
Distance	4.28	4.28	4.28	4.28	4.28	4.28		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.87	58.58	59.47	60.83	52.54	53.43	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Lincoln Street
Segment: Lake Street to Machado Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	8000.00
							SPEED	40.00
-							DISTANCE	54.90
INPUT PARAMETERS								
Vehicles per hour	452.03	8.54	3.43	112.57	2.13	0.86	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.11
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01		
Distance	-0.71	-0.71	-0.71	-0.71	-0.71	-0.71		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.87	53.59	54.48	55.83	47.55	48.44	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.07

LDN 65.0

Roadway: Lincoln Street
Segment: Lake Street to Machado Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	8000.00
							SPEED	40.00
-							DISTANCE	118.10
INPUT PARAMETERS								
Vehicles per hour	452.03	8.54	3.43	112.57	2.13	0.86	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	20.23	2.99	-0.97	14.19	-3.05	-7.01		
Distance	-5.70	-5.70	-5.70	-5.70	-5.70	-5.70		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.60	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Lincoln Street
Segment: Alvarado Street to Grand Avenue

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	4000.00
							SPEED	35.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	226.01	4.27	1.72	56.29	1.06	0.43	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	56.72
ADJUSTMENTS							DAY LEQ	54.79
Flow	17.79	0.56	-3.40	11.76	-5.48	-9.44		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	53.28	45.76	47.03	47.25	39.73	40.99	GRADE dB	0.00

DAY LEQ 54.79 NIGHT LEQ 48.75

LDN 56.7

Roadway: Lincoln Street
Segment: Alvarado Street to Grand Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	4000.00
							SPEED	35.00
-							DISTANCE	13.00
INPUT PARAMETERS								
Vehicles per hour	226.01	4.27	1.72	56.29	1.06	0.43	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	70.01
ADJUSTMENTS							DAY LEQ	68.08
Flow	17.79	0.56	-3.40	11.76	-5.48	-9.44		
Distance	8.67	8.67	8.67	8.67	8.67	8.67		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.58	59.06	60.32	60.54	53.02	54.28	GRADE dB	0.00

DAY LEQ 68.08 NIGHT LEQ 62.04

LDN 70.0

Roadway: Lincoln Street
Segment: Alvarado Street to Grand Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	4000.00
							SPEED	35.00
-							DISTANCE	27.90
INPUT PARAMETERS								
Vehicles per hour	226.01	4.27	1.72	56.29	1.06	0.43	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.03
ADJUSTMENTS							DAY LEQ	63.10
Flow	17.79	0.56	-3.40	11.76	-5.48	-9.44		
Distance	3.70	3.70	3.70	3.70	3.70	3.70		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.60	54.08	55.34	55.56	48.04	49.30	GRADE dB	0.00

DAY LEQ 63.10 NIGHT LEQ 57.07

LDN 65.0

Roadway: Lincoln Street
Segment: Alvarado Street to Grand Avenue
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	4000.00
							SPEED	35.00
-							DISTANCE	60.00
INPUT PARAMETERS								
Vehicles per hour	226.01	4.27	1.72	56.29	1.06	0.43	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.04
ADJUSTMENTS							DAY LEQ	58.12
Flow	17.79	0.56	-3.40	11.76	-5.48	-9.44		
Distance	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.61	49.09	50.35	50.57	43.05	44.32	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Machado Street
Segment: Lakeshore Drive to Joy Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	63.86
ADJUSTMENTS							DAY LEQ	61.94
Flow	22.96	5.72	1.76	16.92	-0.32	-4.28		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	60.69	52.41	53.30	54.66	46.37	47.26	GRADE dB	0.00

DAY LEQ 61.94 NIGHT LEQ 55.90

LDN 63.9

Roadway: Machado Street
Segment: Lakeshore Drive to Joy Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15000.00
							SPEED	40.00
-							DISTANCE	38.70
INPUT PARAMETERS								
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	22.96	5.72	1.76	16.92	-0.32	-4.28		
Distance	1.56	1.56	1.56	1.56	1.56	1.56		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.88	58.59	59.48	60.84	52.56	53.45	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Machado Street
Segment: Lakeshore Drive to Joy Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15000.00
							SPEED	40.00
-							DISTANCE	83.40
INPUT PARAMETERS								
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	22.96	5.72	1.76	16.92	-0.32	-4.28		
Distance	-3.44	-3.44	-3.44	-3.44	-3.44	-3.44		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.55	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Machado Street
Segment: Lakeshore Drive to Joy Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15000.00
							SPEED	40.00
-							DISTANCE	179.60
INPUT PARAMETERS								
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	22.96	5.72	1.76	16.92	-0.32	-4.28		
Distance	-8.44	-8.44	-8.44	-8.44	-8.44	-8.44		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Machado Street
Segment: Joy Street to Lincoln Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	60.07	51.79	52.68	54.04	45.75	46.64

DAY LEQ 61.31 NIGHT LEQ 55.28

LDN 63.2

ADT	13000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	63.24
DAY LEQ	61.31
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Machado Street
Segment: Joy Street to Lincoln Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90
Distance	2.18	2.18	2.18	2.18	2.18	2.18
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.88	58.59	59.48	60.84	52.55	53.44

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	13000.00
SPEED	40.00
DISTANCE	35.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Machado Street
Segment: Joy Street to Lincoln Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90
Distance	-2.82	-2.82	-2.82	-2.82	-2.82	-2.82
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.56	48.45

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	13000.00
SPEED	40.00
DISTANCE	75.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Machado Street
Segment: Joy Street to Lincoln Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90
Distance	-7.82	-7.82	-7.82	-7.82	-7.82	-7.82
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.48	50.84	42.56	43.45

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	13000.00
SPEED	40.00
DISTANCE	163.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Machado Street
Segment: Lincoln St to Alvarado Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	59.73	51.44	52.33	53.69	45.40	46.29

ADT	12000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	62.89
DAY LEQ	60.97
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 60.97 NIGHT LEQ 54.93

LDN 62.9

Roadway: Machado Street
Segment: Lincoln St to Alvarado Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25
Distance	2.52	2.52	2.52	2.52	2.52	2.52
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.87	58.58	59.47	60.83	52.55	53.44

ADT	12000.00
SPEED	40.00
DISTANCE	33.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Machado Street
Segment: Lincoln St to Alvarado Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25
Distance	-2.47	-2.47	-2.47	-2.47	-2.47	-2.47
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.87	53.59	54.48	55.84	47.55	48.44

ADT	12000.00
SPEED	40.00
DISTANCE	71.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Machado Street
Segment: Lincoln St to Alvarado Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.99	4.75	0.79	15.95	-1.29	-5.25
Distance	-7.47	-7.47	-7.47	-7.47	-7.47	-7.47
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.48	50.84	42.56	43.45

ADT	12000.00
SPEED	40.00
DISTANCE	154.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Machado Street
Segment: Alvarado Street to Grand Avenue

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	59.09
ADJUSTMENTS							DAY LEQ	57.16
Flow	18.18	0.95	-3.01	12.15	-5.09	-9.05		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	55.92	47.64	48.53	49.89	41.60	42.49	GRADE dB	0.00

DAY LEQ 57.16 NIGHT LEQ 51.13

LDN 59.1

Roadway: Machado Street
Segment: Alvarado Street to Grand Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5000.00
							SPEED	40.00
-							DISTANCE	18.60
INPUT PARAMETERS								
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	18.18	0.95	-3.01	12.15	-5.09	-9.05		
Distance	6.34	6.34	6.34	6.34	6.34	6.34		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.88	58.60	59.49	60.84	52.56	53.45	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Machado Street
Segment: Alvarado Street to Grand Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5000.00
							SPEED	40.00
-							DISTANCE	40.10
INPUT PARAMETERS								
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.12
Flow	18.18	0.95	-3.01	12.15	-5.09	-9.05		
Distance	1.33	1.33	1.33	1.33	1.33	1.33		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.55	48.44	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Machado Street
Segment: Alvarado Street to Grand Avenue
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	5000.00
							SPEED	40.00
-							DISTANCE	86.40
INPUT PARAMETERS								
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.04
ADJUSTMENTS							DAY LEQ	58.12
Flow	18.18	0.95	-3.01	12.15	-5.09	-9.05		
Distance	-3.67	-3.67	-3.67	-3.67	-3.67	-3.67		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.48	50.84	42.55	43.44	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Minthorn Street
Segment: Collier Street to Spring Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	17000.00
							SPEED	35.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	63.00
ADJUSTMENTS							DAY LEQ	61.07
Flow	24.08	6.84	2.88	18.04	0.80	-3.15		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	59.57	52.05	53.31	53.53	46.01	47.27	GRADE dB	0.00

DAY LEQ 61.07 NIGHT LEQ 55.03

LDN 63.0

Roadway: Minthorn Street
Segment: Collier Street to Spring Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	17000.00
							SPEED	35.00
-							DISTANCE	33.90
INPUT PARAMETERS								
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	24.08	6.84	2.88	18.04	0.80	-3.15		
Distance	2.43	2.43	2.43	2.43	2.43	2.43		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.62	59.10	60.36	60.58	53.06	54.32	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Minthorn Street
Segment: Collier Street to Spring Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	17000.00
							SPEED	35.00
-							DISTANCE	73.10
INPUT PARAMETERS								
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.11
Flow	24.08	6.84	2.88	18.04	0.80	-3.15		
Distance	-2.58	-2.58	-2.58	-2.58	-2.58	-2.58		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.61	54.09	55.35	55.57	48.05	49.31	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

Roadway: Minthorn Street
Segment: Collier Street to Spring Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	17000.00
							SPEED	35.00
-							DISTANCE	157.30
INPUT PARAMETERS								
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82	% A	97.42
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	24.08	6.84	2.88	18.04	0.80	-3.15		
Distance	-7.57	-7.57	-7.57	-7.57	-7.57	-7.57		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.62	49.10	50.36	50.58	43.06	44.32	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Mission Trail
Segment: Diamond Drive to Malaga Raod

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.83	7.59	3.64	18.80	1.56	-2.40
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	64.56	55.60	56.16	58.52	49.56	50.12

DAY LEQ 65.60 NIGHT LEQ 59.56

LDN 67.5

ADT	26000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	67.53
DAY LEQ	65.60
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Mission Trail
Segment: Diamond Drive to Malaga Raod
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.83	7.59	3.64	18.80	1.56	-2.40
Distance	-2.11	-2.11	-2.11	-2.11	-2.11	-2.11
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.67	61.03	52.07	52.63

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

ADT	26000.00
SPEED	45.00
DISTANCE	68.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Mission Trail
Segment: Diamond Drive to Malaga Raod
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.83	7.59	3.64	18.80	1.56	-2.40
Distance	-7.10	-7.10	-7.10	-7.10	-7.10	-7.10
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	26000.00
SPEED	45.00
DISTANCE	146.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Mission Trail
Segment: Diamond Drive to Malaga Raod
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1469.09	27.75	11.16	365.87	6.91	2.78
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.83	7.59	3.64	18.80	1.56	-2.40
Distance	-12.10	-12.10	-12.10	-12.10	-12.10	-12.10
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	26000.00
SPEED	45.00
DISTANCE	315.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Mission Trail
Segment: Malaga Road to Elberta Road

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	27000.00
							SPEED	50.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1525.60	28.81	11.59	379.94	7.18	2.89	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	68.86
ADJUSTMENTS							DAY LEQ	66.93
Flow	24.54	7.30	3.34	18.50	1.26	-2.69		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.04	56.47	56.74	60.00	50.44	50.71	GRADE dB	0.00

DAY LEQ 66.93 NIGHT LEQ 60.89

LDN 68.9

Roadway: Mission Trail
Segment: Malaga Road to Elberta Road
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	27000.00
							SPEED	50.00
-							DISTANCE	83.30
INPUT PARAMETERS								
Vehicles per hour	1525.60	28.81	11.59	379.94	7.18	2.89	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	24.54	7.30	3.34	18.50	1.26	-2.69		
Distance	-3.43	-3.43	-3.43	-3.43	-3.43	-3.43		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.23	57.66	57.93	61.19	51.63	51.90	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Mission Trail
Segment: Malaga Road to Elberta Road
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	27000.00
							SPEED	50.00
-							DISTANCE	179.50
INPUT PARAMETERS								
Vehicles per hour	1525.60	28.81	11.59	379.94	7.18	2.89	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	24.54	7.30	3.34	18.50	1.26	-2.69		
Distance	-8.43	-8.43	-8.43	-8.43	-8.43	-8.43		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.23	52.66	52.93	56.19	46.63	46.90	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Mission Trail
Segment: Malaga Road to Elberta Road
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	27000.00
							SPEED	50.00
-							DISTANCE	386.70
INPUT PARAMETERS								
Vehicles per hour	1525.60	28.81	11.59	379.94	7.18	2.89	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	24.54	7.30	3.34	18.50	1.26	-2.69		
Distance	-13.43	-13.43	-13.43	-13.43	-13.43	-13.43		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Mission Trail
Segment: Elberta Road to Olive Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	22000.00
							SPEED	50.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	67.97
ADJUSTMENTS							DAY LEQ	66.04
Flow	23.65	6.41	2.46	17.61	0.37	-3.58		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	65.15	55.58	55.85	59.11	49.55	49.82	GRADE dB	0.00

DAY LEQ 66.04 NIGHT LEQ 60.00

LDN 68.0

Roadway: Mission Trail
Segment: Elberta Road to Olive Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	22000.00
							SPEED	50.00
							DISTANCE	72.70
INPUT PARAMETERS								
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	23.65	6.41	2.46	17.61	0.37	-3.58		
Distance	-2.54	-2.54	-2.54	-2.54	-2.54	-2.54		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.23	57.66	57.93	61.19	51.62	51.89	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Mission Trail
Segment: Elberta Road to Olive Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	22000.00
							SPEED	40.00
							DISTANCE	156.60
INPUT PARAMETERS								
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	23.65	6.41	2.46	17.61	0.37	-3.58		
Distance	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.23	52.66	52.93	56.19	46.63	46.90	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Mission Trail
Segment: Elberta Road to Olive Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	22000.00
							SPEED	50.00
							DISTANCE	337.30
INPUT PARAMETERS								
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	23.65	6.41	2.46	17.61	0.37	-3.58		
Distance	-12.54	-12.54	-12.54	-12.54	-12.54	-12.54		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Mission Trail
Segment: Olive Street to Lewis Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1582.10	29.88	12.02	394.01	7.44	2.99
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	24.70	7.46	3.50	18.66	1.42	-2.53
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.20	56.63	56.90	60.16	50.59	50.87

ADT	28000.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	69.02
DAY LEQ	67.09
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 67.09 NIGHT LEQ 61.05

LDN 69.0

Roadway: Mission Trail
Segment: Olive Street to Lewis Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1582.10	29.88	12.02	394.01	7.44	2.99
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	24.70	7.46	3.50	18.66	1.42	-2.53
Distance	-3.59	-3.59	-3.59	-3.59	-3.59	-3.59
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.22	57.66	57.93	61.19	51.62	51.89

ADT	28000.00
SPEED	50.00
DISTANCE	85.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Mission Trail
Segment: Olive Street to Lewis Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1582.10	29.88	12.02	394.01	7.44	2.99
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	24.70	7.46	3.50	18.66	1.42	-2.53
Distance	-8.59	-8.59	-8.59	-8.59	-8.59	-8.59
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.63	46.90

ADT	28000.00
SPEED	50.00
DISTANCE	183.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Mission Trail
Segment: Olive Street to Lewis Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1582.10	29.88	12.02	394.01	7.44	2.99
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	24.70	7.46	3.50	18.66	1.42	-2.53
Distance	-13.59	-13.59	-13.59	-13.59	-13.59	-13.59
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

ADT	28000.00
SPEED	50.00
DISTANCE	396.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Mission Trail
Segment: Lewis Street to Lemon Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	29000.00
							SPEED	50.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	69.17
ADJUSTMENTS							DAY LEQ	67.24
Flow	24.85	7.61	3.66	18.81	1.57	-2.38		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.35	56.78	57.05	60.31	50.75	51.02	GRADE dB	0.00

DAY LEQ 67.24 NIGHT LEQ 61.20

LDN 69.2

Roadway: Mission Trail
Segment: Lewis Street to Lemon Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	29000.00
							SPEED	50.00
-							DISTANCE	87.40
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	24.85	7.61	3.66	18.81	1.57	-2.38		
Distance	-3.74	-3.74	-3.74	-3.74	-3.74	-3.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.23	57.66	57.93	61.19	51.62	51.89	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Mission Trail
Segment: Lewis Street to Lemon Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	29000.00
							SPEED	50.00
-							DISTANCE	188.30
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	24.85	7.61	3.66	18.81	1.57	-2.38		
Distance	-8.74	-8.74	-8.74	-8.74	-8.74	-8.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.23	52.66	52.93	56.19	46.62	46.89	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Mission Trail
Segment: Lewis Street to Lemon Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	29000.00
							SPEED	50.00
-							DISTANCE	405.50
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	24.85	7.61	3.66	18.81	1.57	-2.38		
Distance	-13.74	-13.74	-13.74	-13.74	-13.74	-13.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Mission Trail
Segment: Lemon Street to Bundy Canyon Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.01	5.77	1.82	16.98	-0.26	-4.22
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	64.51	54.95	55.22	58.47	48.91	49.18

ADT	19000.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	67.33
DAY LEQ	65.40
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 65.40 NIGHT LEQ 59.37

LDN 67.3

Roadway: Mission Trail
Segment: Lemon Street to Bundy Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.01	5.77	1.82	16.98	-0.26	-4.22
Distance	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.23	57.66	57.94	61.19	51.63	51.90

ADT	19000.00
SPEED	50.00
DISTANCE	65.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Mission Trail
Segment: Lemon Street to Bundy Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.01	5.77	1.82	16.98	-0.26	-4.22
Distance	-6.90	-6.90	-6.90	-6.90	-6.90	-6.90
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.63	46.90

ADT	19000.00
SPEED	50.00
DISTANCE	142.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Mission Trail
Segment: Lemon Street to Bundy Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	23.01	5.77	1.82	16.98	-0.26	-4.22
Distance	-11.90	-11.90	-11.90	-11.90	-11.90	-11.90
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

ADT	19000.00
SPEED	50.00
DISTANCE	305.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Mountain Road
Segment: Horsethief Canyon Road to E of Horsethief Canyon Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	25.20	7.96	4.00	19.16	1.92	-2.03
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	60.69	53.17	54.43	54.65	47.13	48.39

ADT	22000.00
SPEED	35.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	64.12
DAY LEQ	62.19
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 62.19 NIGHT LEQ 56.15

LDN 64.1

Roadway: Mountain Road
Segment: Horsethief Canyon Road to E of Horsethief Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	25.20	7.96	4.00	19.16	1.92	-2.03
Distance	1.30	1.30	1.30	1.30	1.30	1.30
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.61	59.09	60.35	60.57	53.05	54.31

ADT	22000.00
SPEED	35.00
DISTANCE	40.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Mountain Road
Segment: Horsethief Canyon Road to E of Horsethief Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	25.20	7.96	4.00	19.16	1.92	-2.03
Distance	-3.69	-3.69	-3.69	-3.69	-3.69	-3.69
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.62	54.10	55.36	55.58	48.06	49.32

ADT	22000.00
SPEED	35.00
DISTANCE	86.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Mountain Road
Segment: rsethief Canyon Road to E of Horsethief Canyon R
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	25.20	7.96	4.00	19.16	1.92	-2.03
Distance	-8.69	-8.69	-8.69	-8.69	-8.69	-8.69
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.62	49.10	50.36	50.58	43.06	44.32

ADT	22000.00
SPEED	35.00
DISTANCE	186.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	16000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	904.06	17.08	6.87	225.15	4.25	1.71	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.42
ADJUSTMENTS							DAY LEQ	63.49
Flow	22.72	5.49	1.53	16.69	-0.55	-4.51		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.45	53.49	54.05	56.41	47.45	48.01	GRADE dB	0.00

DAY LEQ 63.49 NIGHT LEQ 57.45

LDN 65.4

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	16000.00
							SPEED	45.00
-							DISTANCE	49.20
INPUT PARAMETERS								
Vehicles per hour	904.06	17.08	6.87	225.15	4.25	1.71	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	22.72	5.49	1.53	16.69	-0.55	-4.51		
Distance	0.00	0.00	0.00	0.00	0.00	0.00		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.63	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	16000.00
							SPEED	45.00
-							DISTANCE	105.90
INPUT PARAMETERS								
Vehicles per hour	904.06	17.08	6.87	225.15	4.25	1.71	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	22.72	5.49	1.53	16.69	-0.55	-4.51		
Distance	-4.99	-4.99	-4.99	-4.99	-4.99	-4.99		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	16000.00
							SPEED	45.00
-							DISTANCE	228.10
INPUT PARAMETERS								
Vehicles per hour	904.06	17.08	6.87	225.15	4.25	1.71	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	22.72	5.49	1.53	16.69	-0.55	-4.51		
Distance	-9.99	-9.99	-9.99	-9.99	-9.99	-9.99		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Nichols Road
Segment: Lake Street to Road "A"/Alberhill Ranch Road

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	67.36
ADJUSTMENTS							DAY LEQ	65.43
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	64.39	55.43	55.99	58.35	49.39	49.95	GRADE dB	0.00

DAY LEQ 65.43 NIGHT LEQ 59.39

LDN 67.4

Roadway: Nichols Road
Segment: Lake Street to Road "A"/Alberhill Ranch Road
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	66.20
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Nichols Road
Segment: Lake Street to Road "A"/Alberhill Ranch Road
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	142.60
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-6.93	-6.93	-6.93	-6.93	-6.93	-6.93		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Nichols Road
Segment: Lake Street to Road "A"/Alberhill Ranch Road
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	307.10
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-11.93	-11.93	-11.93	-11.93	-11.93	-11.93		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Nichols Road
Segment: Road "A"/Alberhill Ranch Road to Terra Cotta Road

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2316.65	43.76	17.60	576.94	10.90	4.38
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	26.81	9.57	5.62	20.77	3.54	-0.42
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.53	57.57	58.14	60.50	51.54	52.10

ADT	41000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	69.51
DAY LEQ	67.58
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 67.58 NIGHT LEQ 61.54

LDN 69.5

Roadway: Nichols Road
Segment: Road "A"/Alberhill Ranch Road to Terra Cotta Road
Calculation for Distance to 70 Ldn Noise Contour

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2316.65	43.76	17.60	576.94	10.90	4.38
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	26.81	9.57	5.62	20.77	3.54	-0.42
Distance	-4.08	-4.08	-4.08	-4.08	-4.08	-4.08
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.12	58.68	61.04	52.08	52.64

ADT	41000.00
SPEED	45.00
DISTANCE	92.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Nichols Road
Segment: Road "A"/Alberhill Ranch Road to Terra Cotta Road
Calculation for Distance to 65 Ldn Noise Contour

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2316.65	43.76	17.60	576.94	10.90	4.38
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	26.81	9.57	5.62	20.77	3.54	-0.42
Distance	-9.08	-9.08	-9.08	-9.08	-9.08	-9.08
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.07	53.11	53.68	56.04	47.08	47.64

ADT	41000.00
SPEED	40.00
DISTANCE	198.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Nichols Road
Segment: Road "A"/Alberhill Ranch Road to Terra Cotta Road
Calculation for Distance to 60 Ldn Noise Contour

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2316.65	43.76	17.60	576.94	10.90	4.38
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	26.81	9.57	5.62	20.77	3.54	-0.42
Distance	-14.08	-14.08	-14.08	-14.08	-14.08	-14.08
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	41000.00
SPEED	45.00
DISTANCE	427.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Nichols Road
Segment: Terra Cotta Road to Baker Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	47000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2655.67	50.16	20.17	661.37	12.49	5.02	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.10
ADJUSTMENTS							DAY LEQ	68.17
Flow	27.40	10.17	6.21	21.37	4.13	0.17		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.13	58.17	58.73	61.09	52.13	52.69	GRADE dB	0.00

DAY LEQ 68.17 NIGHT LEQ 62.13

LDN 70.1

Roadway: Nichols Road
Segment: Terra Cotta Road to Baker Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	47000.00
							SPEED	45.00
-							DISTANCE	100.80
INPUT PARAMETERS								
Vehicles per hour	2655.67	50.16	20.17	661.37	12.49	5.02	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	27.40	10.17	6.21	21.37	4.13	0.17		
Distance	-4.67	-4.67	-4.67	-4.67	-4.67	-4.67		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.08	58.12	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Nichols Road
Segment: Terra Cotta Road to Baker Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	47000.00
							SPEED	45.00
-							DISTANCE	217.10
INPUT PARAMETERS								
Vehicles per hour	2655.67	50.16	20.17	661.37	12.49	5.02	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	27.40	10.17	6.21	21.37	4.13	0.17		
Distance	-9.67	-9.67	-9.67	-9.67	-9.67	-9.67		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Nichols Road
Segment: Terra Cotta Road to Baker Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	47000.00
							SPEED	45.00
-							DISTANCE	467.80
INPUT PARAMETERS								
Vehicles per hour	2655.67	50.16	20.17	661.37	12.49	5.02	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	27.40	10.17	6.21	21.37	4.13	0.17		
Distance	-14.67	-14.67	-14.67	-14.67	-14.67	-14.67		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Nichols Road
Segment: I-15 SB Ramps to I-15 NB Ramps

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2712.17	51.23	20.60	675.45	12.76	5.13
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	27.50	10.26	6.30	21.46	4.22	0.26
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.22	58.26	58.82	61.18	52.22	52.78

ADT	48000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.19
DAY LEQ	68.26
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.26 NIGHT LEQ 62.23

LDN 70.2

Roadway: Nichols Road
Segment: I-15 SB Ramps to I-15 NB Ramps
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2712.17	51.23	20.60	675.45	12.76	5.13
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	27.50	10.26	6.30	21.46	4.22	0.26
Distance	-4.76	-4.76	-4.76	-4.76	-4.76	-4.76
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.12	58.68	61.04	52.08	52.64

ADT	48000.00
SPEED	45.00
DISTANCE	102.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Nichols Road
Segment: I-15 SB Ramps to I-15 NB Ramps
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2712.17	51.23	20.60	675.45	12.76	5.13
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	27.50	10.26	6.30	21.46	4.22	0.26
Distance	-9.76	-9.76	-9.76	-9.76	-9.76	-9.76
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

ADT	48000.00
SPEED	45.00
DISTANCE	220.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Nichols Road
Segment: I-15 SB Ramps to I-15 NB Ramps
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2712.17	51.23	20.60	675.45	12.76	5.13
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	27.50	10.26	6.30	21.46	4.22	0.26
Distance	-14.76	-14.76	-14.76	-14.76	-14.76	-14.76
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	48000.00
SPEED	45.00
DISTANCE	474.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Nichols Road
Segment: I-15 SB Ramps to I-15 NB Ramps

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3107.70	58.70	23.61	773.95	14.62	5.88
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.09	10.85	6.89	22.05	4.81	0.85
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.81	58.85	59.41	61.77	52.81	53.38

DAY LEQ 68.85 NIGHT LEQ 62.82

LDN 70.8

ADT	55000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.78
DAY LEQ	68.85
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Nichols Road
Segment: I-15 SB Ramps to I-15 NB Ramps
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3107.70	58.70	23.61	773.95	14.62	5.88
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.09	10.85	6.89	22.05	4.81	0.85
Distance	-5.36	-5.36	-5.36	-5.36	-5.36	-5.36
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.68	61.04	52.07	52.64

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	55000.00
SPEED	45.00
DISTANCE	112.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Nichols Road
Segment: I-15 SB Ramps to I-15 NB Ramps
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3107.70	58.70	23.61	773.95	14.62	5.88
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.09	10.85	6.89	22.05	4.81	0.85
Distance	-10.35	-10.35	-10.35	-10.35	-10.35	-10.35
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	55000.00
SPEED	45.00
DISTANCE	241.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Nichols Road
Segment: I-15 SB Ramps to I-15 NB Ramps
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3107.70	58.70	23.61	773.95	14.62	5.88
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.09	10.85	6.89	22.05	4.81	0.85
Distance	-15.35	-15.35	-15.35	-15.35	-15.35	-15.35
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	55000.00
SPEED	45.00
DISTANCE	519.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Nichols Road
Segment: I-15 NB Ramps to Walker Canyon Road

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	61000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	3446.72	65.10	26.18	858.38	16.21	6.52	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	71.23
ADJUSTMENTS							DAY LEQ	69.30
Flow	28.54	11.30	7.34	22.50	5.26	1.30		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	68.26	59.30	59.86	62.22	53.26	53.83	GRADE dB	0.00

DAY LEQ 69.30 NIGHT LEQ 63.27

LDN 71.2

Roadway: Nichols Road
Segment: I-15 NB Ramps to Walker Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	61000.00
							SPEED	45.00
-							DISTANCE	119.90
INPUT PARAMETERS								
Vehicles per hour	3446.72	65.10	26.18	858.38	16.21	6.52	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	28.54	11.30	7.34	22.50	5.26	1.30		
Distance	-5.80	-5.80	-5.80	-5.80	-5.80	-5.80		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.08	58.12	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Nichols Road
Segment: I-15 NB Ramps to Walker Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	61000.00
							SPEED	45.00
-							DISTANCE	258.40
INPUT PARAMETERS								
Vehicles per hour	3446.72	65.10	26.18	858.38	16.21	6.52	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	28.54	11.30	7.34	22.50	5.26	1.30		
Distance	-10.80	-10.80	-10.80	-10.80	-10.80	-10.80		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Nichols Road
Segment: I-15 NB Ramps to Walker Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	61000.00
							SPEED	45.00
-							DISTANCE	556.70
INPUT PARAMETERS								
Vehicles per hour	3446.72	65.10	26.18	858.38	16.21	6.52	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	28.54	11.30	7.34	22.50	5.26	1.30		
Distance	-15.80	-15.80	-15.80	-15.80	-15.80	-15.80		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Nichols Road
Segment: Walker Canyon Road to El Toro Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	58000.00
							SPEED	45.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	3277.21	61.90	24.89	816.16	15.42	6.20	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	71.01
ADJUSTMENTS							DAY LEQ	69.08
Flow	28.32	11.08	7.12	22.28	5.04	1.09		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	68.04	59.08	59.64	62.00	53.04	53.61	GRADE dB	0.00

DAY LEQ 69.08 NIGHT LEQ 63.05

LDN 71.0

Roadway: Nichols Road
Segment: Walker Canyon Road to El Toro Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	58000.00
							SPEED	45.00
							DISTANCE	116.00
INPUT PARAMETERS								
Vehicles per hour	3277.21	61.90	24.89	816.16	15.42	6.20	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	28.32	11.08	7.12	22.28	5.04	1.09		
Distance	-5.59	-5.59	-5.59	-5.59	-5.59	-5.59		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Nichols Road
Segment: Walker Canyon Road to El Toro Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	58000.00
							SPEED	45.00
							DISTANCE	249.80
INPUT PARAMETERS								
Vehicles per hour	3277.21	61.90	24.89	816.16	15.42	6.20	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	28.32	11.08	7.12	22.28	5.04	1.09		
Distance	-10.58	-10.58	-10.58	-10.58	-10.58	-10.58		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Nichols Road
Segment: Walker Canyon Road to El Toro Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	58000.00
							SPEED	45.00
							DISTANCE	538.20
INPUT PARAMETERS								
Vehicles per hour	3277.21	61.90	24.89	816.16	15.42	6.20	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	28.32	11.08	7.12	22.28	5.04	1.09		
Distance	-15.58	-15.58	-15.58	-15.58	-15.58	-15.58		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2090.63	39.49	15.88	520.66	9.83	3.95
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	26.36	9.13	5.17	20.33	3.09	-0.87
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.09	57.13	57.69	60.05	51.09	51.65

DAY LEQ 67.13 NIGHT LEQ 61.10

LDN 69.1

ADT	37000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	69.06
DAY LEQ	67.13
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2090.63	39.49	15.88	520.66	9.83	3.95
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	26.36	9.13	5.17	20.33	3.09	-0.87
Distance	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.67	61.03	52.07	52.64

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	37000.00
SPEED	45.00
DISTANCE	86.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2090.63	39.49	15.88	520.66	9.83	3.95
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	26.36	9.13	5.17	20.33	3.09	-0.87
Distance	-8.63	-8.63	-8.63	-8.63	-8.63	-8.63
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	37000.00
SPEED	45.00
DISTANCE	185.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2090.63	39.49	15.88	520.66	9.83	3.95
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	26.36	9.13	5.17	20.33	3.09	-0.87
Distance	-13.63	-13.63	-13.63	-13.63	-13.63	-13.63
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	37000.00
SPEED	45.00
DISTANCE	398.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
							ADT	40000.00
							SPEED	45.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2260.14	42.69	17.17	562.87	10.63	4.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	69.40
ADJUSTMENTS							DAY LEQ	67.47
Flow	26.70	9.47	5.51	20.67	3.43	-0.53		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.43	57.47	58.03	60.39	51.43	51.99	GRADE dB	0.00

DAY LEQ 67.47 NIGHT LEQ 61.43

LDN 69.4

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
							ADT	40000.00
							SPEED	45.00
							DISTANCE	90.50
INPUT PARAMETERS								
Vehicles per hour	2260.14	42.69	17.17	562.87	10.63	4.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	26.70	9.47	5.51	20.67	3.43	-0.53		
Distance	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.08	58.12	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
							ADT	40000.00
							SPEED	45.00
							DISTANCE	195.00
INPUT PARAMETERS								
Vehicles per hour	2260.14	42.69	17.17	562.87	10.63	4.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	26.70	9.47	5.51	20.67	3.43	-0.53		
Distance	-8.97	-8.97	-8.97	-8.97	-8.97	-8.97		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
							ADT	40000.00
							SPEED	45.00
							DISTANCE	420.10
INPUT PARAMETERS								
Vehicles per hour	2260.14	42.69	17.17	562.87	10.63	4.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	26.70	9.47	5.51	20.67	3.43	-0.53		
Distance	-13.97	-13.97	-13.97	-13.97	-13.97	-13.97		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
							ADT	40000.00
							SPEED	45.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2260.14	42.69	17.17	562.87	10.63	4.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	69.40
ADJUSTMENTS							DAY LEQ	67.47
Flow	26.70	9.47	5.51	20.67	3.43	-0.53		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.43	57.47	58.03	60.39	51.43	51.99	GRADE dB	0.00

DAY LEQ 67.47 NIGHT LEQ 61.43

LDN 69.4

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
							ADT	40000.00
							SPEED	45.00
							DISTANCE	90.50
INPUT PARAMETERS								
Vehicles per hour	2260.14	42.69	17.17	562.87	10.63	4.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	26.70	9.47	5.51	20.67	3.43	-0.53		
Distance	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.08	58.12	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
							ADT	40000.00
							SPEED	45.00
							DISTANCE	195.00
INPUT PARAMETERS								
Vehicles per hour	2260.14	42.69	17.17	562.87	10.63	4.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	26.70	9.47	5.51	20.67	3.43	-0.53		
Distance	-8.97	-8.97	-8.97	-8.97	-8.97	-8.97		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS		
							ADT	40000.00
							SPEED	45.00
							DISTANCE	420.10
INPUT PARAMETERS								
Vehicles per hour	2260.14	42.69	17.17	562.87	10.63	4.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	26.70	9.47	5.51	20.67	3.43	-0.53		
Distance	-13.97	-13.97	-13.97	-13.97	-13.97	-13.97		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1864.62	35.22	14.16	464.37	8.77	3.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	68.56
ADJUSTMENTS							DAY LEQ	66.64
Flow	25.87	8.63	4.67	19.83	2.59	-1.36		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	65.59	56.63	57.19	59.55	50.59	51.16	GRADE dB	0.00

DAY LEQ 66.64 NIGHT LEQ 60.60

LDN 68.6

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33000.00
							SPEED	45.00
-							DISTANCE	79.70
INPUT PARAMETERS								
Vehicles per hour	1864.62	35.22	14.16	464.37	8.77	3.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	25.87	8.63	4.67	19.83	2.59	-1.36		
Distance	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33000.00
							SPEED	45.00
-							DISTANCE	171.60
INPUT PARAMETERS								
Vehicles per hour	1864.62	35.22	14.16	464.37	8.77	3.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.87	8.63	4.67	19.83	2.59	-1.36		
Distance	-8.14	-8.14	-8.14	-8.14	-8.14	-8.14		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Nichols Road
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	33000.00
							SPEED	45.00
-							DISTANCE	369.50
INPUT PARAMETERS								
Vehicles per hour	1864.62	35.22	14.16	464.37	8.77	3.53	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.87	8.63	4.67	19.83	2.59	-1.36		
Distance	-13.13	-13.13	-13.13	-13.13	-13.13	-13.13		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Vacation Drive
Segment: Summerhill Drive to E of Summerhill Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	18.76	1.53	-2.43	12.73	-4.51	-8.47
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	54.25	46.73	48.00	48.22	40.70	41.96

DAY LEQ 55.76 NIGHT LEQ 49.72

LDN 57.7

ADT	5000.00
SPEED	35.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	57.69
DAY LEQ	55.76
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Vacation Drive
Segment: Summerhill Drive to E of Summerhill Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	18.76	1.53	-2.43	12.73	-4.51	-8.47
Distance	7.74	7.74	7.74	7.74	7.74	7.74
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.61	59.09	60.35	60.57	53.05	54.32

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	5000.00
SPEED	35.00
DISTANCE	15.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Vacation Drive
Segment: Summerhill Drive to E of Summerhill Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	18.76	1.53	-2.43	12.73	-4.51	-8.47
Distance	2.74	2.74	2.74	2.74	2.74	2.74
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.62	54.10	55.36	55.58	48.06	49.32

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	5000.00
SPEED	35.00
DISTANCE	32.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Vacation Drive
Segment: Summerhill Drive to E of Summerhill Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	282.52	5.34	2.15	70.36	1.33	0.53
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	18.76	1.53	-2.43	12.73	-4.51	-8.47
Distance	-2.26	-2.26	-2.26	-2.26	-2.26	-2.26
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.61	49.09	50.36	50.58	43.06	44.32

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	5000.00
SPEED	35.00
DISTANCE	69.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Pasadena Street
Segment: Riverside Drive to Central Avenue

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	61.83
ADJUSTMENTS							DAY LEQ	59.90
Flow	19.13	1.90	-2.06	13.10	-4.14	-8.10		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	58.86	49.90	50.46	52.82	43.86	44.42	GRADE dB	0.00

DAY LEQ 59.90 NIGHT LEQ 53.86

LDN 61.8

Roadway: Pasadena Street
Segment: Riverside Drive to Central Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7000.00
							SPEED	45.00
-							DISTANCE	28.40
INPUT PARAMETERS								
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.03
ADJUSTMENTS							DAY LEQ	68.10
Flow	19.13	1.90	-2.06	13.10	-4.14	-8.10		
Distance	3.58	3.58	3.58	3.58	3.58	3.58		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.06	58.10	58.66	61.02	52.06	52.62	GRADE dB	0.00

DAY LEQ 68.10 NIGHT LEQ 62.06

LDN 70.0

Roadway: Pasadena Street
Segment: Riverside Drive to Central Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7000.00
							SPEED	45.00
-							DISTANCE	61.00
INPUT PARAMETERS								
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	19.13	1.90	-2.06	13.10	-4.14	-8.10		
Distance	-1.40	-1.40	-1.40	-1.40	-1.40	-1.40		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Pasadena Street
Segment: Riverside Drive to Central Avenue
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	7000.00
							SPEED	45.00
-							DISTANCE	131.50
INPUT PARAMETERS								
Vehicles per hour	395.53	7.47	3.00	98.50	1.86	0.75	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	19.13	1.90	-2.06	13.10	-4.14	-8.10		
Distance	-6.40	-6.40	-6.40	-6.40	-6.40	-6.40		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.07	48.11	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Pasadena Street
Segment: Central Avenue to E of Central Avenue

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	6000.00
							SPEED	45.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	61.16
ADJUSTMENTS							DAY LEQ	59.23
Flow	18.46	1.23	-2.73	12.43	-4.81	-8.77		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	58.19	49.23	49.79	52.15	43.19	43.75	GRADE dB	0.00

DAY LEQ 59.23 NIGHT LEQ 53.19

LDN 61.2

Roadway: Pasadena Street
Segment: Central Avenue to E of Central Avenue
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	6000.00
							SPEED	45.00
							DISTANCE	25.60
INPUT PARAMETERS								
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	18.46	1.23	-2.73	12.43	-4.81	-8.77		
Distance	4.26	4.26	4.26	4.26	4.26	4.26		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.06	58.10	58.67	61.03	52.07	52.63	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Pasadena Street
Segment: Central Avenue to E of Central Avenue
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	6000.00
							SPEED	45.00
							DISTANCE	55.10
INPUT PARAMETERS								
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.04
ADJUSTMENTS							DAY LEQ	63.11
Flow	18.46	1.23	-2.73	12.43	-4.81	-8.77		
Distance	-0.74	-0.74	-0.74	-0.74	-0.74	-0.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.67	56.03	47.07	47.64	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

Roadway: Pasadena Street
Segment: Central Avenue to E of Central Avenue
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
-							ADT	6000.00
							SPEED	45.00
							DISTANCE	118.60
INPUT PARAMETERS								
Vehicles per hour	339.02	6.40	2.58	84.43	1.59	0.64	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	18.46	1.23	-2.73	12.43	-4.81	-8.77		
Distance	-5.73	-5.73	-5.73	-5.73	-5.73	-5.73		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Railroad Canyon Road
Segment: I-15 Freeway to Summerhill Drive

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2599.17	49.09	19.74	647.30	12.23	4.92
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	29.07	11.83	7.88	23.03	5.80	1.84
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.96	55.33	57.02	55.93	49.29	50.98

ADT	46000.00
SPEED	30.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.76
DAY LEQ	63.83
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.83 NIGHT LEQ 57.79

LDN 65.8

Roadway: Railroad Canyon Road
Segment: I-15 Freeway to Summerhill Drive
Calculation for Distance to 70 Ldn Noise Contour

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2599.17	49.09	19.74	647.30	12.23	4.92
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	29.07	11.83	7.88	23.03	5.80	1.84
Distance	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.25	59.61	61.30	60.21	53.57	55.27

ADT	46000.00
SPEED	30.00
DISTANCE	51.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Railroad Canyon Road
Segment: I-15 Freeway to Summerhill Drive
Calculation for Distance to 65 Ldn Noise Contour

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2599.17	49.09	19.74	647.30	12.23	4.92
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	29.07	11.83	7.88	23.03	5.80	1.84
Distance	-5.33	-5.33	-5.33	-5.33	-5.33	-5.33
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.25	54.62	56.31	55.22	48.58	50.27

ADT	46000.00
SPEED	30.00
DISTANCE	111.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Railroad Canyon Road
Segment: I-15 Freeway to Summerhill Drive
Calculation for Distance to 60 Ldn Noise Contour

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2599.17	49.09	19.74	647.30	12.23	4.92
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	29.07	11.83	7.88	23.03	5.80	1.84
Distance	-10.33	-10.33	-10.33	-10.33	-10.33	-10.33
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.25	49.62	51.31	50.22	43.58	45.27

ADT	46000.00
SPEED	30.00
DISTANCE	240.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Railroad Canyon Road
Segment: Summerhill Drive to E of Summerhill Drive

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3785.74	71.50	28.76	942.81	17.81	7.16
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	30.70	13.47	9.51	24.67	7.43	3.47
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	63.60	56.96	58.65	57.56	50.92	52.61

ADT	67000.00
SPEED	30.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	67.39
DAY LEQ	65.46
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 65.46 NIGHT LEQ 59.43

LDN 67.4

Roadway: Railroad Canyon Road
Segment: Summerhill Drive to E of Summerhill Drive
Calculation for Distance to 70 Ldn Noise Contour

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3785.74	71.50	28.76	942.81	17.81	7.16
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	30.70	13.47	9.51	24.67	7.43	3.47
Distance	-1.96	-1.96	-1.96	-1.96	-1.96	-1.96
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.25	59.62	61.31	60.22	53.58	55.27

ADT	67000.00
SPEED	30.00
DISTANCE	66.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Railroad Canyon Road
Segment: Summerhill Drive to E of Summerhill Drive
Calculation for Distance to 65 Ldn Noise Contour

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3785.74	71.50	28.76	942.81	17.81	7.16
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	30.70	13.47	9.51	24.67	7.43	3.47
Distance	-6.96	-6.96	-6.96	-6.96	-6.96	-6.96
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.25	54.62	56.31	55.22	48.58	50.27

ADT	67000.00
SPEED	30.00
DISTANCE	143.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Railroad Canyon Road
Segment: Summerhill Drive to E of Summerhill Drive
Calculation for Distance to 60 Ldn Noise Contour

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3785.74	71.50	28.76	942.81	17.81	7.16
Speed in MPH	30.00	30.00	30.00	30.00	30.00	30.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	62.51	73.11	78.76	62.51	73.11	78.76
ADJUSTMENTS						
Flow	30.70	13.47	9.51	24.67	7.43	3.47
Distance	-11.96	-11.96	-11.96	-11.96	-11.96	-11.96
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.25	49.62	51.31	50.22	43.58	45.27

ADT	67000.00
SPEED	30.00
DISTANCE	308.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Railroad Canyon Road
Segment: E of Summerhill Drive to W of Canyon Hills Drive

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	68000.00
							SPEED	50.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	3842.24	72.57	29.19	956.88	18.07	7.27	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	72.87
ADJUSTMENTS							DAY LEQ	70.94
Flow	28.55	11.31	7.36	22.51	5.27	1.32		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	70.05	60.49	60.76	64.01	54.45	54.72	GRADE dB	0.00

DAY LEQ 70.94 NIGHT LEQ 64.91

LDN 72.9

Roadway: Railroad Canyon Road
Segment: E of Summerhill Drive to W of Canyon Hills Drive
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	68000.00
							SPEED	50.00
-							DISTANCE	154.20
INPUT PARAMETERS								
Vehicles per hour	3842.24	72.57	29.19	956.88	18.07	7.27	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	28.55	11.31	7.36	22.51	5.27	1.32		
Distance	-7.44	-7.44	-7.44	-7.44	-7.44	-7.44		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.23	57.66	57.93	61.19	51.63	51.90	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Railroad Canyon Road
Segment: E of Summerhill Drive to W of Canyon Hills Drive
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	68000.00
							SPEED	40.00
-							DISTANCE	332.20
INPUT PARAMETERS								
Vehicles per hour	3842.24	72.57	29.19	956.88	18.07	7.27	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	28.55	11.31	7.36	22.51	5.27	1.32		
Distance	-12.44	-12.44	-12.44	-12.44	-12.44	-12.44		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.23	52.66	52.93	56.19	46.63	46.90	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Railroad Canyon Road
Segment: E of Summerhill Drive to W of Canyon Hills Drive
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	68000.00
							SPEED	50.00
-							DISTANCE	715.70
INPUT PARAMETERS								
Vehicles per hour	3842.24	72.57	29.19	956.88	18.07	7.27	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	28.55	11.31	7.36	22.51	5.27	1.32		
Distance	-17.44	-17.44	-17.44	-17.44	-17.44	-17.44		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Railroad Canyon Road
Segment: W of Canyon Hills Drive to Canyon Hills Drive

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3672.73	69.37	27.90	914.67	17.28	6.95
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	28.35	11.12	7.16	22.32	5.08	1.12
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	69.85	60.29	60.56	63.82	54.25	54.52

ADT	65000.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	72.67
DAY LEQ	70.75
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 70.75 NIGHT LEQ 64.71

LDN 72.7

Roadway: Railroad Canyon Road
Segment: W of Canyon Hills Drive to Canyon Hills Drive
Calculation for Distance to 70 Ldn Noise Contour

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3672.73	69.37	27.90	914.67	17.28	6.95
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	28.35	11.12	7.16	22.32	5.08	1.12
Distance	-7.25	-7.25	-7.25	-7.25	-7.25	-7.25
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.23	57.66	57.93	61.19	51.62	51.89

ADT	65000.00
SPEED	50.00
DISTANCE	149.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Railroad Canyon Road
Segment: W of Canyon Hills Drive to Canyon Hills Drive
Calculation for Distance to 65 Ldn Noise Contour

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3672.73	69.37	27.90	914.67	17.28	6.95
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	28.35	11.12	7.16	22.32	5.08	1.12
Distance	-12.25	-12.25	-12.25	-12.25	-12.25	-12.25
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.63	46.90

ADT	65000.00
SPEED	50.00
DISTANCE	322.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Railroad Canyon Road
Segment: W of Canyon Hills Drive to Canyon Hills Drive
Calculation for Distance to 60 Ldn Noise Contour

-	DAYTIME AUTOS	DAYTIME M.TRUCKS	DAYTIME H.TRUCKS	NIGHTTIME AUTOS	NIGHTTIME M.TRUCKS	NIGHTTIME H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3672.73	69.37	27.90	914.67	17.28	6.95
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	28.35	11.12	7.16	22.32	5.08	1.12
Distance	-17.25	-17.25	-17.25	-17.25	-17.25	-17.25
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

ADT	65000.00
SPEED	50.00
DISTANCE	694.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Railroad Canyon Road
Segment: Canyon Hills Drive to E of Canyon Hills Drive

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	54000.00
							SPEED	50.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	3051.19	57.63	23.18	759.88	14.35	5.77	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	71.87
ADJUSTMENTS							DAY LEQ	69.94
Flow	27.55	10.31	6.35	21.51	4.27	0.32		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	69.05	59.48	59.75	63.01	53.45	53.72	GRADE dB	0.00

DAY LEQ 69.94 NIGHT LEQ 63.90

LDN 71.9

Roadway: Railroad Canyon Road
Segment: Canyon Hills Drive to E of Canyon Hills Drive
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	54000.00
							SPEED	50.00
-							DISTANCE	132.30
INPUT PARAMETERS								
Vehicles per hour	3051.19	57.63	23.18	759.88	14.35	5.77	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	27.55	10.31	6.35	21.51	4.27	0.32		
Distance	-6.44	-6.44	-6.44	-6.44	-6.44	-6.44		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.23	57.66	57.93	61.19	51.62	51.89	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Railroad Canyon Road
Segment: Canyon Hills Drive to E of Canyon Hills Drive
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	54000.00
							SPEED	50.00
-							DISTANCE	284.90
INPUT PARAMETERS								
Vehicles per hour	3051.19	57.63	23.18	759.88	14.35	5.77	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	27.55	10.31	6.35	21.51	4.27	0.32		
Distance	-11.44	-11.44	-11.44	-11.44	-11.44	-11.44		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.23	52.66	52.93	56.19	46.63	46.90	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Railroad Canyon Road
Segment: Canyon Hills Drive to E of Canyon Hills Drive
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	54000.00
							SPEED	50.00
-							DISTANCE	613.80
INPUT PARAMETERS								
Vehicles per hour	3051.19	57.63	23.18	759.88	14.35	5.77	% A	97.42
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	27.55	10.31	6.35	21.51	4.27	0.32		
Distance	-16.44	-16.44	-16.44	-16.44	-16.44	-16.44		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.23	47.66	47.93	51.19	41.63	41.90	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Riverside Drive
Segment: N. of Collier Avenue to Collier Avenue

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	29000.00
							SPEED	40.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	66.73
ADJUSTMENTS							DAY LEQ	64.80
Flow	25.82	8.58	4.62	19.78	2.54	-1.41		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	63.56	55.27	56.16	57.52	49.23	50.13	GRADE dB	0.00

DAY LEQ 64.80 NIGHT LEQ 58.76

LDN 66.7

Roadway: Riverside Drive
Segment: N. of Collier Avenue to Collier Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	29000.00
							SPEED	40.00
-							DISTANCE	60.10
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	25.82	8.58	4.62	19.78	2.54	-1.41		
Distance	-1.30	-1.30	-1.30	-1.30	-1.30	-1.30		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.87	58.59	59.48	60.84	52.55	53.44	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Riverside Drive
Segment: N. of Collier Avenue to Collier Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	29000.00
							SPEED	40.00
-							DISTANCE	129.40
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.82	8.58	4.62	19.78	2.54	-1.41		
Distance	-6.30	-6.30	-6.30	-6.30	-6.30	-6.30		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.48	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Riverside Drive
Segment: N. of Collier Avenue to Collier Avenue
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	29000.00
							SPEED	40.00
-							DISTANCE	278.70
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.82	8.58	4.62	19.78	2.54	-1.41		
Distance	-11.30	-11.30	-11.30	-11.30	-11.30	-11.30		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.60	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Riverside Drive
Segment: Collier Avenue to Baker Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3333.71	62.96	25.32	830.23	15.68	6.31
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.39	11.15	7.20	22.35	5.12	1.16
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	68.12	59.15	59.72	62.08	53.12	53.68

DAY LEQ 69.16 NIGHT LEQ 63.12

LDN 71.1

ADT	59000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	71.09
DAY LEQ	69.16
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Riverside Drive
Segment: Collier Avenue to Baker Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3333.71	62.96	25.32	830.23	15.68	6.31
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.39	11.15	7.20	22.35	5.12	1.16
Distance	-5.66	-5.66	-5.66	-5.66	-5.66	-5.66
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.12	58.68	61.04	52.08	52.64

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	59000.00
SPEED	45.00
DISTANCE	117.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Riverside Drive
Segment: Collier Avenue to Baker Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3333.71	62.96	25.32	830.23	15.68	6.31
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.39	11.15	7.20	22.35	5.12	1.16
Distance	-10.66	-10.66	-10.66	-10.66	-10.66	-10.66
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	59000.00
SPEED	45.00
DISTANCE	252.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Riverside Drive
Segment: Collier Avenue to Baker Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3333.71	62.96	25.32	830.23	15.68	6.31
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.39	11.15	7.20	22.35	5.12	1.16
Distance	-15.66	-15.66	-15.66	-15.66	-15.66	-15.66
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	59000.00
SPEED	45.00
DISTANCE	544.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Riverside Drive
Segment: Baker Street to Gunnerson Street

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3672.73	69.37	27.90	914.67	17.28	6.95
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.81	11.57	7.62	22.77	5.54	1.58
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	68.54	59.58	60.14	62.50	53.54	54.10

DAY LEQ	69.58	NIGHT LEQ	63.54
LDN	71.5		

ADT	65000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	71.51
DAY LEQ	69.58
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Riverside Drive
Segment: Baker Street to Gunnerson Street
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3672.73	69.37	27.90	914.67	17.28	6.95
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.81	11.57	7.62	22.77	5.54	1.58
Distance	-6.08	-6.08	-6.08	-6.08	-6.08	-6.08
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.12	58.68	61.04	52.08	52.64

DAY LEQ	68.12	NIGHT LEQ	62.08
LDN	70.0		

ADT	65000.00
SPEED	45.00
DISTANCE	125.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Riverside Drive
Segment: Baker Street to Gunnerson Street
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3672.73	69.37	27.90	914.67	17.28	6.95
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.81	11.57	7.62	22.77	5.54	1.58
Distance	-11.08	-11.08	-11.08	-11.08	-11.08	-11.08
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

DAY LEQ	63.12	NIGHT LEQ	57.08
LDN	65.0		

ADT	65000.00
SPEED	40.00
DISTANCE	269.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Riverside Drive
Segment: Baker Street to Gunnerson Street
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3672.73	69.37	27.90	914.67	17.28	6.95
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.81	11.57	7.62	22.77	5.54	1.58
Distance	-16.08	-16.08	-16.08	-16.08	-16.08	-16.08
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

DAY LEQ	58.12	NIGHT LEQ	52.08
LDN	60.0		

ADT	65000.00
SPEED	45.00
DISTANCE	580.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Riverside Drive
Segment: Gunnerson Street to Lakeshore Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3446.72	65.10	26.18	858.38	16.21	6.52
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.54	11.30	7.34	22.50	5.26	1.30
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	68.26	59.30	59.86	62.22	53.26	53.83

DAY LEQ 69.30 NIGHT LEQ 63.27

LDN 71.2

ADT	61000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	71.23
DAY LEQ	69.30
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Riverside Drive
Segment: Gunnerson Street to Lakeshore Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3446.72	65.10	26.18	858.38	16.21	6.52
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.54	11.30	7.34	22.50	5.26	1.30
Distance	-5.80	-5.80	-5.80	-5.80	-5.80	-5.80
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.12	58.68	61.04	52.08	52.64

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	61000.00
SPEED	45.00
DISTANCE	119.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Riverside Drive
Segment: Gunnerson Street to Lakeshore Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3446.72	65.10	26.18	858.38	16.21	6.52
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.54	11.30	7.34	22.50	5.26	1.30
Distance	-10.80	-10.80	-10.80	-10.80	-10.80	-10.80
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	61000.00
SPEED	45.00
DISTANCE	258.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Riverside Drive
Segment: Gunnerson Street to Lakeshore Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3446.72	65.10	26.18	858.38	16.21	6.52
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.54	11.30	7.34	22.50	5.26	1.30
Distance	-15.80	-15.80	-15.80	-15.80	-15.80	-15.80
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	61000.00
SPEED	45.00
DISTANCE	556.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Riverside Drive
Segment: Lakeshore Drive to Joy Street

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3107.70	58.70	23.61	773.95	14.62	5.88
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.09	10.85	6.89	22.05	4.81	0.85
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.81	58.85	59.41	61.77	52.81	53.38

ADT	55000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.78
DAY LEQ	68.85
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.85 NIGHT LEQ 62.82

LDN 70.8

Roadway: Riverside Drive
Segment: Lakeshore Drive to Joy Street
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3107.70	58.70	23.61	773.95	14.62	5.88
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.09	10.85	6.89	22.05	4.81	0.85
Distance	-5.36	-5.36	-5.36	-5.36	-5.36	-5.36
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.68	61.04	52.07	52.64

ADT	55000.00
SPEED	45.00
DISTANCE	112.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Riverside Drive
Segment: Lakeshore Drive to Joy Street
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3107.70	58.70	23.61	773.95	14.62	5.88
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.09	10.85	6.89	22.05	4.81	0.85
Distance	-10.35	-10.35	-10.35	-10.35	-10.35	-10.35
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

ADT	55000.00
SPEED	45.00
DISTANCE	241.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Riverside Drive
Segment: Lakeshore Drive to Joy Street
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3107.70	58.70	23.61	773.95	14.62	5.88
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	28.09	10.85	6.89	22.05	4.81	0.85
Distance	-15.35	-15.35	-15.35	-15.35	-15.35	-15.35
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	55000.00
SPEED	45.00
DISTANCE	519.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Riverside Drive
Segment: Joy Street to Lincoln Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	53000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2994.69	56.56	22.75	745.80	14.09	5.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.62
ADJUSTMENTS							DAY LEQ	68.69
Flow	27.93	10.69	6.73	21.89	4.65	0.69		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.65	58.69	59.25	61.61	52.65	53.22	GRADE dB	0.00

DAY LEQ 68.69 NIGHT LEQ 62.66

LDN 70.6

Roadway: Riverside Drive
Segment: Joy Street to Lincoln Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	53000.00
							SPEED	45.00
-							DISTANCE	109.20
INPUT PARAMETERS								
Vehicles per hour	2994.69	56.56	22.75	745.80	14.09	5.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	27.93	10.69	6.73	21.89	4.65	0.69		
Distance	-5.19	-5.19	-5.19	-5.19	-5.19	-5.19		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.08	58.12	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Riverside Drive
Segment: Joy Street to Lincoln Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	53000.00
							SPEED	45.00
-							DISTANCE	235.30
INPUT PARAMETERS								
Vehicles per hour	2994.69	56.56	22.75	745.80	14.09	5.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	27.93	10.69	6.73	21.89	4.65	0.69		
Distance	-10.19	-10.19	-10.19	-10.19	-10.19	-10.19		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Riverside Drive
Segment: Joy Street to Lincoln Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	53000.00
							SPEED	45.00
-							DISTANCE	506.80
INPUT PARAMETERS								
Vehicles per hour	2994.69	56.56	22.75	745.80	14.09	5.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	27.93	10.69	6.73	21.89	4.65	0.69		
Distance	-15.19	-15.19	-15.19	-15.19	-15.19	-15.19		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Riverside Drive
Segment: Lincoln Street to Grand Avenue

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	34000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1921.12	36.28	14.59	478.44	9.04	3.63	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	68.69
ADJUSTMENTS							DAY LEQ	66.77
Flow	26.00	8.76	4.80	19.96	2.72	-1.23		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	65.72	56.76	57.32	59.68	50.72	51.29	GRADE dB	0.00

DAY LEQ 66.77 NIGHT LEQ 60.73

LDN 68.7

Roadway: Riverside Drive
Segment: Lincoln Street to Grand Avenue
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	34000.00
							SPEED	45.00
-							DISTANCE	81.30
INPUT PARAMETERS								
Vehicles per hour	1921.12	36.28	14.59	478.44	9.04	3.63	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	26.00	8.76	4.80	19.96	2.72	-1.23		
Distance	-3.27	-3.27	-3.27	-3.27	-3.27	-3.27		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Riverside Drive
Segment: Lincoln Street to Grand Avenue
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	34000.00
							SPEED	45.00
-							DISTANCE	175.00
INPUT PARAMETERS								
Vehicles per hour	1921.12	36.28	14.59	478.44	9.04	3.63	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	26.00	8.76	4.80	19.96	2.72	-1.23		
Distance	-8.27	-8.27	-8.27	-8.27	-8.27	-8.27		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Riverside Drive
Segment: Lincoln Street to Grand Avenue
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	34000.00
							SPEED	45.00
-							DISTANCE	377.00
INPUT PARAMETERS								
Vehicles per hour	1921.12	36.28	14.59	478.44	9.04	3.63	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	26.00	8.76	4.80	19.96	2.72	-1.23		
Distance	-13.27	-13.27	-13.27	-13.27	-13.27	-13.27		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Riverside Street
Segment: SR-74 to Steel Valley Road

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	67.36
ADJUSTMENTS							DAY LEQ	65.43
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	64.39	55.43	55.99	58.35	49.39	49.95	GRADE dB	0.00

DAY LEQ 65.43 NIGHT LEQ 59.39

LDN 67.4

Roadway: Riverside Street
Segment: SR-74 to Steel Valley Road
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	66.20
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.68	61.04	52.08	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Riverside Street
Segment: SR-74 to Steel Valley Road
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	142.60
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-6.93	-6.93	-6.93	-6.93	-6.93	-6.93		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.07	53.11	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Riverside Street
Segment: SR-74 to Steel Valley Road
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	25000.00
							SPEED	45.00
-							DISTANCE	307.10
INPUT PARAMETERS								
Vehicles per hour	1412.59	26.68	10.73	351.79	6.64	2.67	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	24.66	7.42	3.47	18.62	1.39	-2.57		
Distance	-11.93	-11.93	-11.93	-11.93	-11.93	-11.93		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Road "A"
Segment: W ot Temescal Canyon Rd to Temescal Canyon Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	565.04	10.67	4.29	140.72	2.66	1.07
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.19	3.96	0.00	15.16	-2.08	-6.04
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	58.93	50.65	51.54	52.90	44.61	45.50

DAY LEQ 60.17 NIGHT LEQ 54.14

LDN 62.1

ADT	10000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	62.10
DAY LEQ	60.17
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Road "A"
Segment: W ot Temescal Canyon Rd to Temescal Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	565.04	10.67	4.29	140.72	2.66	1.07
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.19	3.96	0.00	15.16	-2.08	-6.04
Distance	3.31	3.31	3.31	3.31	3.31	3.31
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.86	58.58	59.47	60.83	52.54	53.43

DAY LEQ 68.10 NIGHT LEQ 62.07

LDN 70.0

ADT	10000.00
SPEED	40.00
DISTANCE	29.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.03
DAY LEQ	68.10
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Road "A"
Segment: W ot Temescal Canyon Rd to Temescal Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	565.04	10.67	4.29	140.72	2.66	1.07
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.19	3.96	0.00	15.16	-2.08	-6.04
Distance	-1.68	-1.68	-1.68	-1.68	-1.68	-1.68
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.87	53.59	54.48	55.83	47.55	48.44

DAY LEQ 63.11 NIGHT LEQ 57.07

LDN 65.0

ADT	10000.00
SPEED	40.00
DISTANCE	63.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Road "A"
Segment: W ot Temescal Canyon Rd to Temescal Canyon Roa
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	565.04	10.67	4.29	140.72	2.66	1.07
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	21.19	3.96	0.00	15.16	-2.08	-6.04
Distance	-6.68	-6.68	-6.68	-6.68	-6.68	-6.68
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.48	50.84	42.56	43.45

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	10000.00
SPEED	40.00
DISTANCE	137.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Road "A"
Segment: Temescal Canyon Road to Lake Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	45000.00
-							SPEED	40.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	2542.66	48.02	19.31	633.23	11.96	4.81	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	68.63
ADJUSTMENTS							DAY LEQ	66.71
Flow	27.73	10.49	6.53	21.69	4.45	0.50		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	65.47	57.18	58.07	59.43	51.14	52.03	GRADE dB	0.00

DAY LEQ 66.71 NIGHT LEQ 60.67

LDN 68.6

Roadway: Road "A"
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	45000.00
-							SPEED	40.00
							DISTANCE	80.50
INPUT PARAMETERS								
Vehicles per hour	2542.66	48.02	19.31	633.23	11.96	4.81	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	70.05
ADJUSTMENTS							DAY LEQ	68.12
Flow	27.73	10.49	6.53	21.69	4.45	0.50		
Distance	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.88	58.59	59.48	60.84	52.56	53.45	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Road "A"
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	45000.00
-							SPEED	40.00
							DISTANCE	173.40
INPUT PARAMETERS								
Vehicles per hour	2542.66	48.02	19.31	633.23	11.96	4.81	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	27.73	10.49	6.53	21.69	4.45	0.50		
Distance	-8.21	-8.21	-8.21	-8.21	-8.21	-8.21		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.88	53.59	54.49	55.84	47.56	48.45	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Road "A"
Segment: Temescal Canyon Road to Lake Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	45000.00
-							SPEED	40.00
							DISTANCE	373.60
INPUT PARAMETERS								
Vehicles per hour	2542.66	48.02	19.31	633.23	11.96	4.81	% A	97.42
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	27.73	10.49	6.53	21.69	4.45	0.50		
Distance	-13.21	-13.21	-13.21	-13.21	-13.21	-13.21		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.59	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Road "A"
Segment: Lake Street to Nichols Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	14000.00
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50	SPEED	40.00
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	DISTANCE	100.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	LEFT	-90.00
							RIGHT	90.00
ADJUSTMENTS							Ldn	63.56
Flow	22.66	5.42	1.46	16.62	-0.62	-4.58	DAY LEQ	61.64
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	60.40	52.11	53.00	54.36	46.07	46.96	GRADE dB	0.00

DAY LEQ 61.64 NIGHT LEQ 55.60

LDN 63.6

Roadway: Road "A"
Segment: Lake Street to Nichols Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	14000.00
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50	SPEED	40.00
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	DISTANCE	37.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	LEFT	-90.00
							RIGHT	90.00
ADJUSTMENTS							Ldn	70.04
Flow	22.66	5.42	1.46	16.62	-0.62	-4.58	DAY LEQ	68.11
Distance	1.86	1.86	1.86	1.86	1.86	1.86		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	66.87	58.59	59.48	60.83	52.55	53.44	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Road "A"
Segment: Lake Street to Nichols Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	14000.00
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50	SPEED	40.00
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	DISTANCE	79.70
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	LEFT	-90.00
							RIGHT	90.00
ADJUSTMENTS							Ldn	65.04
Flow	22.66	5.42	1.46	16.62	-0.62	-4.58	DAY LEQ	63.11
Distance	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.87	53.59	54.48	55.84	47.55	48.44	GRADE dB	0.00

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

Roadway: Road "A"
Segment: Lake Street to Nichols Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
INPUT PARAMETERS							ADT	14000.00
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50	SPEED	40.00
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	DISTANCE	171.50
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% A	97.42
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS							% HT	0.74
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	LEFT	-90.00
							RIGHT	90.00
ADJUSTMENTS							Ldn	60.05
Flow	22.66	5.42	1.46	16.62	-0.62	-4.58	DAY LEQ	58.12
Distance	-8.13	-8.13	-8.13	-8.13	-8.13	-8.13		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	56.88	48.60	49.49	50.84	42.56	43.45	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Rosarita Drive
Segment: Nichols Road to Conard Avenue

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	60.07	51.79	52.68	54.04	45.75	46.64

ADT	13000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	63.24
DAY LEQ	61.31
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 61.31 NIGHT LEQ 55.28

LDN 63.2

Roadway: Rosarita Drive
Segment: Nichols Road to Conard Avenue
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90
Distance	2.18	2.18	2.18	2.18	2.18	2.18
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.88	58.59	59.48	60.84	52.55	53.44

ADT	13000.00
SPEED	40.00
DISTANCE	35.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Rosarita Drive
Segment: Nichols Road to Conard Avenue
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90
Distance	-2.82	-2.82	-2.82	-2.82	-2.82	-2.82
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.48	55.84	47.56	48.45

ADT	13000.00
SPEED	40.00
DISTANCE	75.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Rosarita Drive
Segment: Nichols Road to Conard Avenue
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	22.33	5.10	1.14	16.30	-0.94	-4.90
Distance	-7.82	-7.82	-7.82	-7.82	-7.82	-7.82
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.48	50.84	42.56	43.45

ADT	13000.00
SPEED	40.00
DISTANCE	163.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Rosetta Canyon
Segment: Central Avenue to E of Central Avenue

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	8000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	452.03	8.54	3.43	112.57	2.13	0.86	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	62.41
ADJUSTMENTS							DAY LEQ	60.48
Flow	19.71	2.48	-1.48	13.68	-3.56	-7.52		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	59.44	50.48	51.04	53.40	44.44	45.00	GRADE dB	0.00

DAY LEQ 60.48 NIGHT LEQ 54.44

LDN 62.4

Roadway: Rosetta Canyon
Segment: Central Avenue to E of Central Avenue
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	8000.00
							SPEED	45.00
-							DISTANCE	31.00
INPUT PARAMETERS								
Vehicles per hour	452.03	8.54	3.43	112.57	2.13	0.86	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	19.71	2.48	-1.48	13.68	-3.56	-7.52		
Distance	3.01	3.01	3.01	3.01	3.01	3.01		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.63	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.07

LDN 70.0

Roadway: Rosetta Canyon
Segment: Central Avenue to E of Central Avenue
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	8000.00
							SPEED	45.00
-							DISTANCE	66.70
INPUT PARAMETERS								
Vehicles per hour	452.03	8.54	3.43	112.57	2.13	0.86	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	19.71	2.48	-1.48	13.68	-3.56	-7.52		
Distance	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Rosetta Canyon
Segment: Central Avenue to E of Central Avenue
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	8000.00
							SPEED	45.00
-							DISTANCE	143.70
INPUT PARAMETERS								+
Vehicles per hour	452.03	8.54	3.43	112.57	2.13	0.86	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	19.71	2.48	-1.48	13.68	-3.56	-7.52		
Distance	-6.98	-6.98	-6.98	-6.98	-6.98	-6.98		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Rosetta Canyon
Segment: N of Camino Del Norte to Camino Del Norte

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.82	4.58	0.63	15.78	-1.45	-5.41
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.55	52.59	53.15	55.51	46.55	47.11

ADT	13000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	64.52
DAY LEQ	62.59
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 62.59 NIGHT LEQ 56.55

LDN 64.5

Roadway: Rosetta Canyon
Segment: N of Camino Del Norte to Camino Del Norte
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.82	4.58	0.63	15.78	-1.45	-5.41
Distance	0.91	0.91	0.91	0.91	0.91	0.91
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.68	61.04	52.08	52.64

ADT	13000.00
SPEED	45.00
DISTANCE	42.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Rosetta Canyon
Segment: N of Camino Del Norte to Camino Del Norte
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.82	4.58	0.63	15.78	-1.45	-5.41
Distance	-4.09	-4.09	-4.09	-4.09	-4.09	-4.09
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.11	53.68	56.04	47.08	47.64

ADT	13000.00
SPEED	45.00
DISTANCE	92.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Rosetta Canyon
Segment: N of Camino Del Norte to Camino Del Norte
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	734.55	13.87	5.58	182.93	3.46	1.39
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.82	4.58	0.63	15.78	-1.45	-5.41
Distance	-9.09	-9.09	-9.09	-9.09	-9.09	-9.09
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	13000.00
SPEED	45.00
DISTANCE	198.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: SR-74
Segment: Riverside Drive to Wasson Canyon Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3220.71	60.83	24.46	802.09	15.15	6.09
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.78	10.55	6.59	21.75	4.51	0.55
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	69.28	59.72	59.99	63.25	53.68	53.95

DAY LEQ	70.18	NIGHT LEQ	64.14
LDN	72.1		

ADT	57000.00
SPEED	50.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	72.10
DAY LEQ	70.18
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: SR-74
Segment: Riverside Drive to Wasson Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3220.71	60.83	24.46	802.09	15.15	6.09
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.78	10.55	6.59	21.75	4.51	0.55
Distance	-6.68	-6.68	-6.68	-6.68	-6.68	-6.68
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.23	57.66	57.93	61.19	51.63	51.90

DAY LEQ	68.12	NIGHT LEQ	62.08
LDN	70.0		

ADT	57000.00
SPEED	50.00
DISTANCE	137.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: SR-74
Segment: Riverside Drive to Wasson Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3220.71	60.83	24.46	802.09	15.15	6.09
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.78	10.55	6.59	21.75	4.51	0.55
Distance	-11.68	-11.68	-11.68	-11.68	-11.68	-11.68
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.23	52.66	52.93	56.19	46.63	46.90

DAY LEQ	63.12	NIGHT LEQ	57.08
LDN	65.0		

ADT	57000.00
SPEED	50.00
DISTANCE	295.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: SR-74
Segment: Riverside Drive to Wasson Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	3220.71	60.83	24.46	802.09	15.15	6.09
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02
ADJUSTMENTS						
Flow	27.78	10.55	6.59	21.75	4.51	0.55
Distance	-16.68	-16.68	-16.68	-16.68	-16.68	-16.68
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.23	47.66	47.93	51.19	41.63	41.90

DAY LEQ	58.12	NIGHT LEQ	52.08
LDN	60.0		

ADT	57000.00
SPEED	50.00
DISTANCE	636.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: SR-74/Ortega Highway
Segment: Grand Avenue to S of Grand Avenue

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	29000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	68.00
ADJUSTMENTS							DAY LEQ	66.07
Flow	25.31	8.07	4.11	19.27	2.03	-1.92		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	65.03	56.07	56.63	58.99	50.03	50.60	GRADE dB	0.00

DAY LEQ 66.07 NIGHT LEQ 60.04

LDN 68.0

Roadway: SR-74/Ortega Highway
Segment: Grand Avenue to S of Grand Avenue
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	29000.00
							SPEED	45.00
-							DISTANCE	73.10
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	25.31	8.07	4.11	19.27	2.03	-1.92		
Distance	-2.58	-2.58	-2.58	-2.58	-2.58	-2.58		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.68	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: SR-74/Ortega Highway
Segment: Grand Avenue to S of Grand Avenue
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	29000.00
							SPEED	45.00
-							DISTANCE	157.40
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.31	8.07	4.11	19.27	2.03	-1.92		
Distance	-7.58	-7.58	-7.58	-7.58	-7.58	-7.58		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: SR-74/Ortega Highway
Segment: Grand Avenue to S of Grand Avenue
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS		
							ADT	29000.00
							SPEED	45.00
-							DISTANCE	339.00
INPUT PARAMETERS								
Vehicles per hour	1638.60	30.95	12.45	408.08	7.71	3.10	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.31	8.07	4.11	19.27	2.03	-1.92		
Distance	-12.57	-12.57	-12.57	-12.57	-12.57	-12.57		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Summerhill Drive
Segment: Greenwald Avenue to La Strada

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	22.14	4.91	0.95	16.11	-1.13	-5.09
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.87	52.91	53.47	55.83	46.87	47.43

ADT	14000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	64.84
DAY LEQ	62.91
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 62.91 NIGHT LEQ 56.87

LDN 64.8

Roadway: Summerhill Drive
Segment: Greenwald Avenue to La Strada
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	22.14	4.91	0.95	16.11	-1.13	-5.09
Distance	0.58	0.58	0.58	0.58	0.58	0.58
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.67	61.03	52.07	52.64

ADT	14000.00
SPEED	45.00
DISTANCE	45.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Summerhill Drive
Segment: Greenwald Avenue to La Strada
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	22.14	4.91	0.95	16.11	-1.13	-5.09
Distance	-4.42	-4.42	-4.42	-4.42	-4.42	-4.42
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.07	53.11	53.68	56.04	47.08	47.64

ADT	14000.00
SPEED	45.00
DISTANCE	96.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Summerhill Drive
Segment: Greenwald Avenue to La Strada
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	791.05	14.94	6.01	197.00	3.72	1.50
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	22.14	4.91	0.95	16.11	-1.13	-5.09
Distance	-9.41	-9.41	-9.41	-9.41	-9.41	-9.41
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.11	48.68	51.04	42.08	42.64

ADT	14000.00
SPEED	45.00
DISTANCE	208.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Summerhill Drive
Segment: La Strada to Via Scenica

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.20	52.24	52.80	55.16	46.20	46.76

ADT	12000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	64.17
DAY LEQ	62.24
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 62.24 NIGHT LEQ 56.21

LDN 64.2

Roadway: Summerhill Drive
Segment: La Strada to Via Scenica
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76
Distance	1.25	1.25	1.25	1.25	1.25	1.25
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.67	61.03	52.07	52.64

ADT	12000.00
SPEED	45.00
DISTANCE	40.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Summerhill Drive
Segment: La Strada to Via Scenica
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76
Distance	-3.74	-3.74	-3.74	-3.74	-3.74	-3.74
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

ADT	12000.00
SPEED	45.00
DISTANCE	87.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Summerhill Drive
Segment: La Strada to Via Scenica
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76
Distance	-8.74	-8.74	-8.74	-8.74	-8.74	-8.74
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	12000.00
SPEED	45.00
DISTANCE	188.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Summerhill Drive
Segment: Via Scenica to Canyon Estates Drive

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	12000.00
-							SPEED	45.00
							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	64.17
ADJUSTMENTS							DAY LEQ	62.24
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	61.20	52.24	52.80	55.16	46.20	46.76	GRADE dB	0.00

DAY LEQ 62.24 NIGHT LEQ 56.21

LDN 64.2

Roadway: Summerhill Drive
Segment: Via Scenica to Canyon Estates Drive
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	12000.00
-							SPEED	45.00
							DISTANCE	40.60
INPUT PARAMETERS								
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76		
Distance	1.25	1.25	1.25	1.25	1.25	1.25		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Summerhill Drive
Segment: Via Scenica to Canyon Estates Drive
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	12000.00
-							SPEED	40.00
							DISTANCE	87.40
INPUT PARAMETERS								
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76		
Distance	-3.74	-3.74	-3.74	-3.74	-3.74	-3.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Summerhill Drive
Segment: Via Scenica to Canyon Estates Drive
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	12000.00
-							SPEED	45.00
							DISTANCE	188.30
INPUT PARAMETERS								
Vehicles per hour	678.04	12.81	5.15	168.86	3.19	1.28	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	21.47	4.24	0.28	15.44	-1.80	-5.76		
Distance	-8.74	-8.74	-8.74	-8.74	-8.74	-8.74		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Summerhill Drive
Segment: Canyon Estates Drive to Railroad Canyon Road

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.11	6.87	2.91	18.07	0.83	-3.12
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	63.83	54.87	55.43	57.79	48.83	49.40

ADT	22000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	66.80
DAY LEQ	64.87
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 64.87 NIGHT LEQ 58.84

LDN 66.8

Roadway: Summerhill Drive
Segment: Canyon Estates Drive to Railroad Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.11	6.87	2.91	18.07	0.83	-3.12
Distance	-1.38	-1.38	-1.38	-1.38	-1.38	-1.38
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.68	61.04	52.07	52.64

ADT	22000.00
SPEED	45.00
DISTANCE	60.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Summerhill Drive
Segment: Canyon Estates Drive to Railroad Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.11	6.87	2.91	18.07	0.83	-3.12
Distance	-6.37	-6.37	-6.37	-6.37	-6.37	-6.37
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

ADT	22000.00
SPEED	45.00
DISTANCE	130.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Summerhill Drive
Segment: Canyon Estates Drive to Railroad Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1243.08	23.48	9.44	309.58	5.85	2.35
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	24.11	6.87	2.91	18.07	0.83	-3.12
Distance	-11.37	-11.37	-11.37	-11.37	-11.37	-11.37
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	22000.00
SPEED	45.00
DISTANCE	282.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Temescal Canyon Road
Segment: N of Indian Truck Trail to Indian Truck Trail

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	23.47	6.23	2.28	17.43	0.19	-3.76
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	63.19	54.23	54.80	57.16	48.20	48.76

ADT	19000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	66.17
DAY LEQ	64.24
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 64.24 NIGHT LEQ 58.20

LDN 66.2

Roadway: Temescal Canyon Road
Segment: N of Indian Truck Trail to Indian Truck Trail
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	23.47	6.23	2.28	17.43	0.19	-3.76
Distance	-0.74	-0.74	-0.74	-0.74	-0.74	-0.74
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.12	58.68	61.04	52.08	52.64

ADT	19000.00
SPEED	45.00
DISTANCE	55.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Temescal Canyon Road
Segment: N of Indian Truck Trail to Indian Truck Trail
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	23.47	6.23	2.28	17.43	0.19	-3.76
Distance	-5.74	-5.74	-5.74	-5.74	-5.74	-5.74
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

ADT	19000.00
SPEED	45.00
DISTANCE	118.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Temescal Canyon Road
Segment: N of Indian Truck Trail to Indian Truck Trail
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1073.57	20.28	8.15	267.36	5.05	2.03
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	23.47	6.23	2.28	17.43	0.19	-3.76
Distance	-10.74	-10.74	-10.74	-10.74	-10.74	-10.74
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	19000.00
SPEED	45.00
DISTANCE	255.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Temescal Canyon Road
Segment: Indian Truck Trail to Horsethief Canyon Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1751.61	33.08	13.31	436.23	8.24	3.31
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81
ADJUSTMENTS						
Flow	24.72	7.49	3.53	18.69	1.45	-2.51
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.83	57.72	57.73	61.79	51.68	51.69

ADT	31000.00
SPEED	55.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.53
DAY LEQ	68.60
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.60 NIGHT LEQ 62.57

LDN 70.5

Roadway: Temescal Canyon Road
Segment: Indian Truck Trail to Horsethief Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1751.61	33.08	13.31	436.23	8.24	3.31
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81
ADJUSTMENTS						
Flow	24.72	7.49	3.53	18.69	1.45	-2.51
Distance	-5.10	-5.10	-5.10	-5.10	-5.10	-5.10
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.35	57.24	57.24	61.31	51.20	51.20

ADT	31000.00
SPEED	55.00
DISTANCE	107.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Temescal Canyon Road
Segment: Indian Truck Trail to Horsethief Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1751.61	33.08	13.31	436.23	8.24	3.31
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81
ADJUSTMENTS						
Flow	24.72	7.49	3.53	18.69	1.45	-2.51
Distance	-10.11	-10.11	-10.11	-10.11	-10.11	-10.11
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.35	52.23	52.24	56.31	46.20	46.20

ADT	31000.00
SPEED	55.00
DISTANCE	232.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Temescal Canyon Road
Segment: Indian Truck Trail to Horsethief Canyon Road
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1751.61	33.08	13.31	436.23	8.24	3.31
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81
ADJUSTMENTS						
Flow	24.72	7.49	3.53	18.69	1.45	-2.51
Distance	-15.10	-15.10	-15.10	-15.10	-15.10	-15.10
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.35	47.24	47.24	51.31	41.20	41.20

ADT	31000.00
SPEED	55.00
DISTANCE	499.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Temescal Canyon Road
Segment: Horsethief Canyon Road to S of Horsethief Canyon Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2825.18	53.36	21.46	703.59	13.29	5.34
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81
ADJUSTMENTS						
Flow	26.80	9.56	5.61	20.76	3.53	-0.43
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	69.91	59.80	59.80	63.87	53.76	53.76

ADT	50000.00
SPEED	55.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	72.61
DAY LEQ	70.68
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 70.68 NIGHT LEQ 64.64

LDN 72.6

Roadway: Temescal Canyon Road
Segment: Horsethief Canyon Road to S of Horsethief Canyon Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2825.18	53.36	21.46	703.59	13.29	5.34
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81
ADJUSTMENTS						
Flow	26.80	9.56	5.61	20.76	3.53	-0.43
Distance	-7.18	-7.18	-7.18	-7.18	-7.18	-7.18
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.34	57.23	57.24	61.31	51.20	51.20

ADT	50000.00
SPEED	55.00
DISTANCE	148.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Temescal Canyon Road
Segment: Horsethief Canyon Road to S of Horsethief Canyon Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2825.18	53.36	21.46	703.59	13.29	5.34
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81
ADJUSTMENTS						
Flow	26.80	9.56	5.61	20.76	3.53	-0.43
Distance	-12.18	-12.18	-12.18	-12.18	-12.18	-12.18
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.35	52.24	52.24	56.31	46.20	46.21

ADT	50000.00
SPEED	40.00
DISTANCE	319.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Temescal Canyon Road
Segment: rsethief Canyon Road to S of Horsethief Canyon R
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2825.18	53.36	21.46	703.59	13.29	5.34
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81
ADJUSTMENTS						
Flow	26.80	9.56	5.61	20.76	3.53	-0.43
Distance	-17.18	-17.18	-17.18	-17.18	-17.18	-17.18
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.35	47.24	47.24	51.31	41.20	41.20

ADT	50000.00
SPEED	55.00
DISTANCE	687.50
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Temescal Canyon Road
Segment: N of Road "A" to Road "A"

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2712.17	51.23	20.60	675.45	12.76	5.13
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	27.50	10.26	6.30	21.46	4.22	0.26
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.22	58.26	58.82	61.18	52.22	52.78

ADT	48000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.19
DAY LEQ	68.26
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.26 NIGHT LEQ 62.23

LDN 70.2

Roadway: Temescal Canyon Road
Segment: N of Road "A" to Road "A"
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2712.17	51.23	20.60	675.45	12.76	5.13
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	27.50	10.26	6.30	21.46	4.22	0.26
Distance	-4.76	-4.76	-4.76	-4.76	-4.76	-4.76
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.12	58.68	61.04	52.08	52.64

ADT	48000.00
SPEED	45.00
DISTANCE	102.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Temescal Canyon Road
Segment: N of Road "A" to Road "A"
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2712.17	51.23	20.60	675.45	12.76	5.13
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	27.50	10.26	6.30	21.46	4.22	0.26
Distance	-9.76	-9.76	-9.76	-9.76	-9.76	-9.76
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.08	53.12	53.68	56.04	47.08	47.64

ADT	48000.00
SPEED	45.00
DISTANCE	220.20
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Temescal Canyon Road
Segment: N of Road "A" to Road "A"
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	2712.17	51.23	20.60	675.45	12.76	5.13
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	27.50	10.26	6.30	21.46	4.22	0.26
Distance	-14.76	-14.76	-14.76	-14.76	-14.76	-14.76
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	48000.00
SPEED	45.00
DISTANCE	474.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Temescal Canyon Road
Segment: Road "A" to S of Road "A"

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.73	8.50	4.54	19.70	2.46	-1.50
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	65.46	56.50	57.06	59.42	50.46	51.02

ADT	32000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	68.43
DAY LEQ	66.50
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 66.50 NIGHT LEQ 60.46

LDN 68.4

Roadway: Temescal Canyon Road
Segment: Road "A" to S of Road "A"
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.73	8.50	4.54	19.70	2.46	-1.50
Distance	-3.00	-3.00	-3.00	-3.00	-3.00	-3.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.08	58.12	58.68	61.04	52.08	52.64

ADT	32000.00
SPEED	45.00
DISTANCE	78.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Temescal Canyon Road
Segment: Road "A" to S of Road "A"
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.73	8.50	4.54	19.70	2.46	-1.50
Distance	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.07	53.11	53.68	56.04	47.08	47.64

ADT	32000.00
SPEED	45.00
DISTANCE	168.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Temescal Canyon Road
Segment: Road "A" to S of Road "A"
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1808.12	34.15	13.73	450.30	8.50	3.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.73	8.50	4.54	19.70	2.46	-1.50
Distance	-13.00	-13.00	-13.00	-13.00	-13.00	-13.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	32000.00
SPEED	45.00
DISTANCE	362.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Temescal Canyon Road
Segment: Road "A" to Nichols Road

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1525.60	28.81	11.59	379.94	7.18	2.89
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.00	7.76	3.80	18.96	1.72	-2.24
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	64.72	55.76	56.32	58.68	49.72	50.29

ADT	27000.00
SPEED	45.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	67.69
DAY LEQ	65.76
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 65.76 NIGHT LEQ 59.73

LDN 67.7

Roadway: Temescal Canyon Road
Segment: Road "A" to Nichols Road
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1525.60	28.81	11.59	379.94	7.18	2.89
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.00	7.76	3.80	18.96	1.72	-2.24
Distance	-2.27	-2.27	-2.27	-2.27	-2.27	-2.27
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	67.07	58.11	58.67	61.03	52.07	52.64

ADT	27000.00
SPEED	45.00
DISTANCE	69.70
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.04
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Temescal Canyon Road
Segment: Road "A" to Nichols Road
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1525.60	28.81	11.59	379.94	7.18	2.89
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.00	7.76	3.80	18.96	1.72	-2.24
Distance	-7.27	-7.27	-7.27	-7.27	-7.27	-7.27
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	62.07	53.11	53.68	56.04	47.08	47.64

ADT	27000.00
SPEED	45.00
DISTANCE	150.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Temescal Canyon Road
Segment: Road "A" to Nichols Road
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	1525.60	28.81	11.59	379.94	7.18	2.89
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14
ADJUSTMENTS						
Flow	25.00	7.76	3.80	18.96	1.72	-2.24
Distance	-12.26	-12.26	-12.26	-12.26	-12.26	-12.26
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	57.08	48.12	48.68	51.04	42.08	42.64

ADT	27000.00
SPEED	45.00
DISTANCE	323.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Temescal Canyon Road
Segment: N of Nichols Road to Nichols Road

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	30000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1695.11	32.02	12.88	422.15	7.97	3.21	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	68.15
ADJUSTMENTS							DAY LEQ	66.22
Flow	25.45	8.22	4.26	19.42	2.18	-1.78		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	65.18	56.22	56.78	59.14	50.18	50.74	GRADE dB	0.00

DAY LEQ 66.22 NIGHT LEQ 60.18

LDN 68.2

Roadway: Temescal Canyon Road
Segment: N of Nichols Road to Nichols Road
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	30000.00
							SPEED	45.00
-							DISTANCE	74.80
INPUT PARAMETERS								
Vehicles per hour	1695.11	32.02	12.88	422.15	7.97	3.21	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	25.45	8.22	4.26	19.42	2.18	-1.78		
Distance	-2.73	-2.73	-2.73	-2.73	-2.73	-2.73		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Temescal Canyon Road
Segment: N of Nichols Road to Nichols Road
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	30000.00
							SPEED	45.00
-							DISTANCE	161.00
INPUT PARAMETERS								
Vehicles per hour	1695.11	32.02	12.88	422.15	7.97	3.21	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	25.45	8.22	4.26	19.42	2.18	-1.78		
Distance	-7.72	-7.72	-7.72	-7.72	-7.72	-7.72		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Temescal Canyon Road
Segment: N of Nichols Road to Nichols Road
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	30000.00
							SPEED	45.00
-							DISTANCE	346.80
INPUT PARAMETERS								
Vehicles per hour	1695.11	32.02	12.88	422.15	7.97	3.21	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	25.45	8.22	4.26	19.42	2.18	-1.78		
Distance	-12.72	-12.72	-12.72	-12.72	-12.72	-12.72		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Terra Cotta Road
Segment: Nichols Road to Lakeshore Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	24.08	6.84	2.88	18.04	0.80	-3.15
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	59.57	52.05	53.31	53.53	46.01	47.27

DAY LEQ 61.07 NIGHT LEQ 55.03

LDN 63.0

ADT	17000.00
SPEED	35.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	63.00
DAY LEQ	61.07
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Terra Cotta Road
Segment: Nichols Road to Lakeshore Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	24.08	6.84	2.88	18.04	0.80	-3.15
Distance	2.43	2.43	2.43	2.43	2.43	2.43
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.62	59.10	60.36	60.58	53.06	54.32

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

ADT	17000.00
SPEED	35.00
DISTANCE	33.90
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.05
DAY LEQ	68.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Terra Cotta Road
Segment: Nichols Road to Lakeshore Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	24.08	6.84	2.88	18.04	0.80	-3.15
Distance	-2.58	-2.58	-2.58	-2.58	-2.58	-2.58
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.61	54.09	55.35	55.57	48.05	49.31

DAY LEQ 63.11 NIGHT LEQ 57.08

LDN 65.0

ADT	17000.00
SPEED	35.00
DISTANCE	73.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Terra Cotta Road
Segment: Nichols Road to Lakeshore Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	960.56	18.14	7.30	239.22	4.52	1.82
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05
ADJUSTMENTS						
Flow	24.08	6.84	2.88	18.04	0.80	-3.15
Distance	-7.57	-7.57	-7.57	-7.57	-7.57	-7.57
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.62	49.10	50.36	50.58	43.06	44.32

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	17000.00
SPEED	35.00
DISTANCE	157.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Vacation Drive
Segment: Summerhill Drive to E of Summerhill Drive

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	20.74	3.50	-0.46	14.70	-2.54	-6.49
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	58.48	50.19	51.08	52.44	44.15	45.04

DAY LEQ 59.72 NIGHT LEQ 53.68

LDN 61.6

ADT	9000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	61.64
DAY LEQ	59.72
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Vacation Drive
Segment: Summerhill Drive to E of Summerhill Drive
Calculation for Distance to 70 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	20.74	3.50	-0.46	14.70	-2.54	-6.49
Distance	3.77	3.77	3.77	3.77	3.77	3.77
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.86	58.58	59.47	60.83	52.54	53.43

DAY LEQ 68.10 NIGHT LEQ 62.07

LDN 70.0

ADT	9000.00
SPEED	40.00
DISTANCE	27.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.03
DAY LEQ	68.10
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Vacation Drive
Segment: Summerhill Drive to E of Summerhill Drive
Calculation for Distance to 65 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	20.74	3.50	-0.46	14.70	-2.54	-6.49
Distance	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.88	53.59	54.49	55.84	47.56	48.45

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

ADT	9000.00
SPEED	40.00
DISTANCE	59.30
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.05
DAY LEQ	63.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Vacation Drive
Segment: Summerhill Drive to E of Summerhill Drive
Calculation for Distance to 60 Ldn Noise Contour

	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	508.53	9.60	3.86	126.65	2.39	0.96
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	20.74	3.50	-0.46	14.70	-2.54	-6.49
Distance	-6.22	-6.22	-6.22	-6.22	-6.22	-6.22
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.59	49.48	50.84	42.56	43.45

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

ADT	9000.00
SPEED	40.00
DISTANCE	127.80
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

FHWA Sound32 Spreadsheet

Roadway: Walker Canyon Road
Segment: Lake Street to E of Lake Street

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	18000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	1017.06	19.21	7.73	253.29	4.78	1.92	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.93
ADJUSTMENTS							DAY LEQ	64.00
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.96	54.00	54.56	56.92	47.96	48.53	GRADE dB	0.00

DAY LEQ 64.00 NIGHT LEQ 57.97

LDN 65.9

Roadway: Walker Canyon Road
Segment: Lake Street to E of Lake Street
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	18000.00
							SPEED	45.00
-							DISTANCE	53.20
INPUT PARAMETERS								
Vehicles per hour	1017.06	19.21	7.73	253.29	4.78	1.92	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.11
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00		
Distance	-0.51	-0.51	-0.51	-0.51	-0.51	-0.51		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.67	61.03	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.11 NIGHT LEQ 62.08

LDN 70.0

Roadway: Walker Canyon Road
Segment: Lake Street to E of Lake Street
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	18000.00
							SPEED	45.00
-							DISTANCE	114.50
INPUT PARAMETERS								
Vehicles per hour	1017.06	19.21	7.73	253.29	4.78	1.92	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00		
Distance	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Walker Canyon Road
Segment: Lake Street to E of Lake Street
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	18000.00
							SPEED	45.00
-							DISTANCE	246.70
INPUT PARAMETERS								
Vehicles per hour	1017.06	19.21	7.73	253.29	4.78	1.92	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	23.24	6.00	2.04	17.20	-0.04	-4.00		
Distance	-10.50	-10.50	-10.50	-10.50	-10.50	-10.50		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Walker Canyon Road
Segment: N of Nichols Road to Nichols Road

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15000.00
							SPEED	45.00
-							DISTANCE	100.00
INPUT PARAMETERS								
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.14
ADJUSTMENTS							DAY LEQ	63.21
Flow	22.44	5.21	1.25	16.41	-0.83	-4.79		
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.17	53.21	53.77	56.13	47.17	47.73	GRADE dB	0.00

DAY LEQ 63.21 NIGHT LEQ 57.17

LDN 65.1

Roadway: Walker Canyon Road
Segment: N of Nichols Road to Nichols Road
Calculation for Distance to 70 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15000.00
							SPEED	45.00
-							DISTANCE	47.10
INPUT PARAMETERS								
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	70.04
ADJUSTMENTS							DAY LEQ	68.12
Flow	22.44	5.21	1.25	16.41	-0.83	-4.79		
Distance	0.28	0.28	0.28	0.28	0.28	0.28		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	67.07	58.11	58.68	61.04	52.07	52.64	GRADE dB	0.00

DAY LEQ 68.12 NIGHT LEQ 62.08

LDN 70.0

Roadway: Walker Canyon Road
Segment: N of Nichols Road to Nichols Road
Calculation for Distance to 65 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15000.00
							SPEED	45.00
-							DISTANCE	101.40
INPUT PARAMETERS								
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	65.05
ADJUSTMENTS							DAY LEQ	63.12
Flow	22.44	5.21	1.25	16.41	-0.83	-4.79		
Distance	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	62.08	53.12	53.68	56.04	47.08	47.64	GRADE dB	0.00

DAY LEQ 63.12 NIGHT LEQ 57.08

LDN 65.0

Roadway: Walker Canyon Road
Segment: N of Nichols Road to Nichols Road
Calculation for Distance to 60 Ldn Noise Contour

	DAYTIME			NIGHTTIME				
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	ADT	15000.00
							SPEED	45.00
-							DISTANCE	218.50
INPUT PARAMETERS								
Vehicles per hour	847.55	16.01	6.44	211.08	3.99	1.60	% A	97.42
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
							RIGHT	90.00
NOISE CALCULATIONS								
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	Ldn	60.05
ADJUSTMENTS							DAY LEQ	58.12
Flow	22.44	5.21	1.25	16.41	-0.83	-4.79		
Distance	-9.71	-9.71	-9.71	-9.71	-9.71	-9.71		
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	yes
Grade	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	57.08	48.12	48.68	51.04	42.08	42.64	GRADE dB	0.00

DAY LEQ 58.12 NIGHT LEQ 52.08

LDN 60.0

FHWA Sound32 Spreadsheet

Roadway: Wasson Canyon Road
Segment: SR-74 to Riverside Drive

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	226.01	4.27	1.72	56.29	1.06	0.43
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	17.21	-0.02	-3.98	11.18	-6.06	-10.02
Distance	-4.62	-4.62	-4.62	-4.62	-4.62	-4.62
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	54.95	46.67	47.56	48.92	40.63	41.52

DAY LEQ	56.19
NIGHT LEQ	50.16
LDN	58.1

ADT	4000.00
SPEED	40.00
DISTANCE	100.00
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	58.12
DAY LEQ	56.19
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Wasson Canyon Road
Segment: SR-74 to Riverside Drive
Calculation for Distance to 70 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	226.01	4.27	1.72	56.29	1.06	0.43
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	17.21	-0.02	-3.98	11.18	-6.06	-10.02
Distance	7.28	7.28	7.28	7.28	7.28	7.28
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	66.85	58.57	59.46	60.81	52.53	53.42

DAY LEQ	68.09
NIGHT LEQ	62.06
LDN	70.0

ADT	4000.00
SPEED	40.00
DISTANCE	16.10
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	70.02
DAY LEQ	68.09
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Wasson Canyon Road
Segment: SR-74 to Riverside Drive
Calculation for Distance to 65 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	226.01	4.27	1.72	56.29	1.06	0.43
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	17.21	-0.02	-3.98	11.18	-6.06	-10.02
Distance	2.29	2.29	2.29	2.29	2.29	2.29
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	61.87	53.58	54.47	55.83	47.55	48.44

DAY LEQ	63.11
NIGHT LEQ	57.07
LDN	65.0

ADT	4000.00
SPEED	40.00
DISTANCE	34.60
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	65.04
DAY LEQ	63.11
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00

Roadway: Wasson Canyon Road
Segment: SR-74 to Riverside Drive
Calculation for Distance to 60 Ldn Noise Contour

-	AUTOS	DAYTIME M.TRUCKS	H.TRUCKS	AUTOS	NIGHTTIME M.TRUCKS	H.TRUCKS
INPUT PARAMETERS						
Vehicles per hour	226.01	4.27	1.72	56.29	1.06	0.43
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
Right angle	90.00	90.00	90.00	90.00	90.00	90.00
NOISE CALCULATIONS						
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16
ADJUSTMENTS						
Flow	17.21	-0.02	-3.98	11.18	-6.06	-10.02
Distance	-2.69	-2.69	-2.69	-2.69	-2.69	-2.69
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00
Grade	0.00	0.00	0.00	0.00	0.00	0.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00
LEQ	56.88	48.60	49.49	50.84	42.56	43.45

DAY LEQ	58.12
NIGHT LEQ	52.08
LDN	60.0

ADT	4000.00
SPEED	40.00
DISTANCE	74.40
% A	97.42
% MT	1.84
% HT	0.74
LEFT	-90.00
RIGHT	90.00
Ldn	60.05
DAY LEQ	58.12
Absorbtive?	yes
Use hour?	no
GRADE dB	0.00