

APPENDIX 4.6

Noise Calculations

**Table N-1
NOISE LEVEL CONTOURS - Existing ADT Volumes**

ROADWAY NAME Segment	Land Use	Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor (1)	Barrier Attn. dB(A)	Vehicle Mix		dB(A) CNEL
								Medium Trucks	Heavy Trucks		
Central Ave N/O Goode Ave	Commercial, Residential	4	0	20,490	35	50	0	0	1.8%	0.7%	66.6
Central Ave N/O Sanchez Dr	Transportation	4	0	24,600	35	50	0	0	1.8%	0.7%	67.4
Central Ave N/O Pioneer Dr	Commercial	5	0	27,290	35	50	0	0	1.8%	0.7%	68.1
Central Ave N/O Doran St	Commercial	5	0	25,410	35	50	0	0	1.8%	0.7%	67.8
Central Ave S/O Doran St	Commercial	5	0	23,380	35	50	0	0	1.8%	0.7%	67.5
Brand Boulevard N/O Goode Ave	Commercial	5	0	20,790	25	50	0	0	1.8%	0.7%	64.3
Brand Boulevard N/O Sanchez Dr	Transportation	6	0	24,960	25	50	0	0	1.8%	0.7%	65.5
Brand Boulevard N/O Doran St	Commercial	5	0	27,180	25	50	0	0	1.8%	0.7%	65.5
Brand Boulevard S/O Doran St	Commercial	5	0	20,910	25	50	0	0	1.8%	0.7%	64.4
Orange St S/O Doran St	Commercial	2	0	7,780	25	50	0	0	1.8%	0.7%	59.5
Goode Ave W/O Brand Blvd	Commercial	2	0	10,190	25	50	0	0	1.8%	0.7%	60.7
Sanchez Dr E/O Central Ave	Commercial, Transportation	2	0	9,360	25	50	0	0	1.8%	0.7%	60.3
Doran St W/O Orange St	Commercial	4	0	7,950	25	50	0	0	1.8%	0.7%	59.9
Doran St W/O Brand Blvd	Commercial	4	0	12,400	25	50	0	0	1.8%	0.7%	61.8
Doran St E/O Brand Blvd	Commercial	2	0	10,890	25	50	0	0	1.8%	0.7%	61.0
Highway 134 e/o Pacific	Commercial	10	0	238,000	65	225	0	0	1.8%	0.7%	77.2

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as asphalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

**Table N-2
NOISE LEVEL CONTOURS - Existing with Project ADT Volumes**

ROADWAY NAME Segment	Land Use	Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor (1)	Barrier Attn. dB(A)	Vehicle Mix Medium Trucks	Vehicle Mix Heavy Trucks	dB(A) CNEL
Central Ave N/O Goode Ave	Commercial, Residential	4	0	20,490	35	50	0	0	1.8%	0.7%	66.6
Central Ave N/O Sanchez Dr	Transportation	4	0	24,600	35	50	0	0	1.8%	0.7%	67.4
Central Ave N/O Pioneer Dr	Commercial	5	0	27,290	35	50	0	0	1.8%	0.7%	68.1
Central Ave N/O Doran St	Commercial	5	0	25,410	35	50	0	0	1.8%	0.7%	67.8
Central Ave S/O Doran St	Commercial	5	0	23,380	35	50	0	0	1.8%	0.7%	67.5
Brand Boulevard N/O Goode Ave	Commercial	5	0	20,790	25	50	0	0	1.8%	0.7%	64.3
Brand Boulevard N/O Sanchez Dr	Transportation	6	0	24,960	25	50	0	0	1.8%	0.7%	65.5
Brand Boulevard N/O Doran St	Commercial	5	0	27,180	25	50	0	0	1.8%	0.7%	65.5
Brand Boulevard S/O Doran St	Commercial	5	0	20,910	25	50	0	0	1.8%	0.7%	64.4
Orange St S/O Doran St	Commercial	2	0	7,780	25	50	0	0	1.8%	0.7%	59.5
Goode Ave W/O Brand Blvd	Commercial	2	0	10,190	25	50	0	0	1.8%	0.7%	60.7
Sanchez Dr E/O Central Ave	Commercial, Transportation	2	0	9,360	25	50	0	0	1.8%	0.7%	60.3
Doran St W/O Orange St	Commercial	4	0	8,170	25	50	0	0	1.8%	0.7%	60.0
Doran St W/O Brand Blvd	Commercial	4	0	12,400	25	50	0	0	1.8%	0.7%	61.8
Doran St E/O Brand Blvd	Commercial	2	0	10,890	25	50	0	0	1.8%	0.7%	61.0
Highway 134 w/o Pacific Avenue	Commercial	10	0	238,345	65	225	0	0	1.8%	0.7%	77.2

300

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

**Table N-3
NOISE LEVEL CONTOURS - Future without Project ADT Volumes**

with Project

ROADWAY NAME Segment	Land Use	Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha factor (1)	Barrier Attn. dB(A)	Vehicle Mix		dB(A) CNEL
									Medium Trucks	Heavy Trucks	
Highway 134 e/o Pacific	Commercial, Residential	10	0	245,140	65	225	0	0	1.8%	0.7%	77.3
Highway 134 e/o Pacific	Commercial, Residential	10	0	245,485	65	225	0	0	1.8%	0.7%	77.3
Central Ave N/O Goode Ave	Commercial, Residential	4	0	24,990	35	50	0	0	1.8%	0.7%	67.5
Central Ave N/O Sanchez Dr	Transportation	4	0	29,050	35	50	0	0	1.8%	0.7%	68.1
Central Ave N/O Pioneer Dr	Commercial	5	0	32,209	35	50	0	0	1.8%	0.7%	68.8
Central Ave N/O Doran St	Commercial	5	0	30,080	35	50	0	0	1.8%	0.7%	68.6
Central Ave S/O Doran St	Commercial	5	0	27,870	35	50	0	0	1.8%	0.7%	68.2
Brand Boulevard N/O Goode Ave	Commercial	5	0	22,840	25	50	0	0	1.8%	0.7%	64.7
Brand Boulevard N/O Sanchez Dr	Transportation	6	0	28,160	25	50	0	0	1.8%	0.7%	66.1
Brand Boulevard N/O Doran St	Commercial	5	0	31,030	25	50	0	0	1.8%	0.7%	66.1
Brand Boulevard S/O Doran St	Commercial	5	0	24,290	25	50	0	0	1.8%	0.7%	65.0
Orange St S/O Doran St	Commercial	2	0	8,340	25	50	0	0	1.8%	0.7%	59.8
Goode Ave W/O Brand Blvd	Commercial	2	0	10,970	25	50	0	0	1.8%	0.7%	61.0
Sanchez Dr E/O Central Ave	Commercial, Transportation	2	0	12,000	25	50	0	0	1.8%	0.7%	61.4
Doran St W/O Orange St	Commercial	4	0	8,340	25	50	0	0	1.8%	0.7%	60.1
Doran St W/O Brand Blvd	Commercial	4	0	12,870	25	50	0	0	1.8%	0.7%	62.0
Doran St E/O Brand Blvd	Commercial	2	0	11,350	25	50	0	0	1.8%	0.7%	61.2
		2	0	245,000	25	50	0	0	1.8%	0.7%	61.2
Doran St E/O Brand Blvd	Commercial	2	0	245,140	25	50	0	0	1.8%	0.7%	61.2

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as asphalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

**Table N-4
NOISE LEVEL CONTOURS - Future with Project ADT Volumes**

ROADWAY NAME Segment	Land Use	Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha factor (1)	Barrier Attn. dB(A)	Vehicle Mix		dB(A) CNEL
									Medium Trucks	Heavy Trucks	
Central Ave N/O Goode Ave	Commercial, Residential	4	0	24,970	35	50	0	0	1.8%	0.7%	67.5
Central Ave N/O Sanchez Dr	Transportation	4	0	28,990	35	50	0	0	1.8%	0.7%	68.1
Central Ave N/O Pioneer Dr	Commercial	5	0	31,960	35	50	0	0	1.8%	0.7%	68.8
Central Ave N/O Doran St	Commercial	5	0	29,960	35	50	0	0	1.8%	0.7%	68.5
Central Ave S/O Doran St	Commercial	5	0	27,760	35	50	0	0	1.8%	0.7%	68.2
Brand Boulevard N/O Goode Ave	Commercial	5	0	22,800	25	50	0	0	1.8%	0.7%	64.7
Brand Boulevard N/O Sanchez Dr	Transportation	6	0	31,150	25	50	0	0	1.8%	0.7%	66.5
Brand Boulevard N/O Doran St	Commercial	5	0	31,030	25	50	0	0	1.8%	0.7%	66.1
Brand Boulevard S/O Doran St	Commercial	5	0	24,340	25	50	0	0	1.8%	0.7%	65.0
Orange St S/O Doran St	Commercial	2	0	8,400	25	50	0	0	1.8%	0.7%	59.9
Goode Ave W/O Brand Blvd	Commercial	2	0	10,990	25	50	0	0	1.8%	0.7%	61.0
Sanchez Dr E/O Central Ave	Commercial, Transportation	2	0	10,150	25	50	0	0	1.8%	0.7%	60.7
Doran St W/O Orange St	Commercial	4	0	8,560	25	50	0	0	1.8%	0.7%	60.2
Doran St W/O Brand Blvd	Commercial	4	0	13,170	25	50	0	0	1.8%	0.7%	62.1
Doran St E/O Brand Blvd	Commercial	2	0	11,420	25	50	0	0	1.8%	0.7%	61.2
Highway 134 west of Pacific	Commercial	10	0	245,485	225	50	0	0	1.8%	0.7%	#NUM!

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as asphalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Verdugo Gardens
 24-hour measurement
 Location # 1 - Along Sanchez
 Calculated CNEL from long-term noise monitoring data

rev. 5/24/01

10 dBA 5 dBA

	TIME	dBA	Numbers...	More Numbers...	
Midnight	0 / 24	62.5	1778279	17782794	5623413
am	01:00	62.9	1949845	19498446	6165950
	02:00	63.2	2089296	20892961	6606934
	03:00	64.2	2630268	26302680	8317638
	04:00	66.4	4365158	43651583	13803843
	05:00	67.8	6025596	60255959	19054607
	06:00	72.0	15848932	158489319	50118723
	07:00	71.2	13182567	131825674	41686938
	08:00	72.4	17378008	173780083	54954087
	09:00	72.5	17782794	177827941	56234133
	10:00	73.0	19952623	199526231	63095734
	11:00	73.2	20892961	208929613	66069345
	12:00	73.5	22387211	223872114	70794578
pm	01:00	73.3	21379621	213796209	67608298
	02:00	72.7	18620871	186208714	58884366
	03:00	72.0	15848932	158489319	50118723
	04:00	72.4	17378008	173780083	54954087
	05:00	70.6	11481536	114815362	36307805
	06:00	71.5	14125375	141253754	44668359
	07:00	70.5	11220185	112201845	35481339
	08:00	69.2	8317638	83176377	26302680
	09:00	67.6	5754399	57543994	18197009
	10:00	66.7	4677351	46773514	14791084
pm	11:00	62.4	1737801	17378008	5495409

Leq Morning Peak Hour 7:00-10:00 a.m.
 72 dBA

Leq Evening Peak Hour 4:00-8:00 p.m.
 71 dBA

Leq Nighttime 10:00 pm-7:00 a.m. (not penalized)
 67 dBA

Leq Daytime 7:00 am-10:00 p.m.
 72 dBA

Leq 24-Hour
 71 dBA

Ldn: 10 dBA penalty for noise between 10:00 p.m. and 7:00 a.m.
 74 dBA

**CNEL: 5 dBA penalty for noise between 7:00p.m. and 10:00 p.m.,
 and 10 dBA penalty for noise between
 10:00 p.m. and 7:00 a.m.**
 75 dBA

CNEL - Ldn = 0.352545034

Verdugo Gardens

24-hour measurement

Location # 2 - Central between Sanchez and Doran

Calculated CNEL from long-term noise monitoring data

10 dBA 5 dBA

rev. 5/24/01

	TIME	dBA	Numbers...	More Numbers...	
Midnight	0 / 24	62.6	1819701	18197009	5754399
am	01:00	100	60.5	1122018	11220185
	02:00	200	63.6	2290868	22908677
	03:00	300	60.8	1202264	12022644
	04:00	400	63.8	2398833	23988329
	05:00	500	63.4	2187762	21877616
	06:00	600	64.3	2691535	26915348
	07:00	700	67.5	5623413	56234133
	08:00	800	69.0	7943282	79432823
	09:00	900	68.3	6760830	67608298
	10:00	1000	68.8	7585776	75857758
	11:00	1100	71.5	14125375	141253754
	12:00	1200	71.4	13803843	138038426
pm	01:00	1300	69.8	9549926	95499259
	02:00	1400	69.4	8709636	87096359
	03:00	1500	69.5	8912509	89125094
	04:00	1600	69.3	8511380	85113804
	05:00	1700	68.1	6456542	64565423
	06:00	1800	68.9	7762471	77624712
	07:00	1900	68.6	7244360	72443596
	08:00	2000	68.9	7762471	77624712
	09:00	2100	67.8	6025596	60255959
	10:00	2200	66.3	4265795	42657952
pm	11:00	2300	64.4	2754229	27542287

Leq Morning Peak Hour 7:00-10:00 a.m.

68 dBA

Leq Evening Peak Hour 4:00-8:00 p.m.

69 dBA

Leq Nighttime 10:00 pm-7:00 a.m. (not penalized)

64 dBA

Leq Daytime 7:00 am-10:00 p.m.

69 dBA

Leq 24-Hour

68 dBA

Ldn: 10 dBA penalty for noise between 10:00 p.m. and 7:00 a.m.

71 dBA

**CNEL: 5 dBA penalty for noise between 7:00p.m. and 10:00 p.m.,
and 10 dBA penalty for noise between
10:00 p.m. and 7:00 a.m.**

72 dBA

CNEL - Ldn = 0.554233346

Verdugo Gardens

24-hour measurement

Location #3 – Doran east of Central

Calculated CNEL from long-term noise monitoring data

10 dBA 5 dBA

rev. 5/24/01

	TIME	dBA	Numbers...	More Numbers...	
Midnight	0 / 24	57.5	562341	5623413	1778279
am	01:00	100	55.5	354813	3548134
	02:00	200	53.6	229087	2290868
	03:00	300	55.2	331131	3311311
	04:00	400	54.8	301995	3019952
	05:00	500	61.5	1412538	14125375
	06:00	600	63.5	2238721	22387211
	07:00	700	66.1	4073803	40738028
	08:00	800	68.0	6309573	63095734
	09:00	900	68.2	6606934	66069345
	10:00:	1000	66.2	4168694	41686938
	11:00:	1100	67.7	5888437	58884366
	12:00:	1200	67.8	6025596	60255959
pm	01:00	1300	67.0	5011872	50118723
	02:00	1400	71.9	15488166	154881662
	03:00	1500	69.4	8709636	87096359
	04:00	1600	67.8	6025596	60255959
	05:00	1700	69.6	9120108	91201084
	06:00	1800	70.1	10232930	102329299
	07:00	1900	65.9	3890451	38904514
	08:00	2000	64.6	2884032	28840315
	09:00	2100	63.8	2398833	23988329
	10:00:	2200	62.9	1949845	19498446
pm	11:00:	2300	60.3	1071519	10715193

Leq Morning Peak Hour 7:00-10:00 a.m.

68 dBA

Leq Evening Peak Hour 4:00-8:00 p.m.

69 dBA

Leq Nighttime 10:00 pm-7:00 a.m. (not penalized)

60 dBA

Leq Daytime 7:00 am-10:00 p.m.

68 dBA

Leq 24-Hour

66 dBA

Ldn: 10 dBA penalty for noise between 10:00 p.m. and 7:00 a.m.

69 dBA

**CNEL: 5 dBA penalty for noise between 7:00p.m. and 10:00 p.m.,
and 10 dBA penalty for noise between
10:00 p.m. and 7:00 a.m.**

69 dBA

CNEL - Ldn = 0.450775122

Verdugo - Demolition

Assumed Attenuation: 6 dBA per doubling of distance

NOISE SOURCE	NUMBER OF UNITS	ASSUMED USE FACTOR	TYPICAL PRESSURE LEVEL @ 50 FT (dBA)	DISTANCE (Feet)	NOISE LEVEL Leq (dBA)
Air Compressor	0	1	81	100	#N/A
Backhoe	1	1	80	50	80
Ballast Equilzer	0	1	82	100	#N/A
Ballast Tamper	0	1	83	100	#N/A
Comapctor	0	1	82	100	#N/A
Concrete Mixer	0	1	85	100	#N/A
Concrete Pump	0	1	82	100	#N/A
Concrete Vibratotr	0	1	76	100	#N/A
Crane Derrick	0	1	88	100	#N/A
Crane Mobile	0	1	83	100	#N/A
Dozer	0	1	85	100	#N/A
Electric Drill	0	1	56	100	#N/A
Forklift, 40 HP	0	1	82	100	#N/A
Generator	0	1	81	100	#N/A
Grader	0	1	85	100	#N/A
Impact Wrench	0	1	85	100	#N/A
Jack Hammer	0	1	88	100	#N/A
Loader	3	1	85	50	90
Paver	0	1	89	100	#N/A
Pile Driver - Impact	0	1	101	100	#N/A
Pile Driver- Sonic	0	1	96	100	#N/A
Pneunatic Tools	0	1	85	50	#N/A
Pump	0	1	76	100	#N/A
Rail Saw	0	1	90	100	#N/A
Rock Drill	0	1	98	100	#N/A
Roller	0	1	74	100	#N/A
Saw	0	1	76	100	#N/A
Scarifier	0	1	83	100	#N/A
Scraper	0	1	89	100	#N/A
Shovel	0	1	82	100	#N/A
Spike Driver	0	1	77	100	#N/A
Tie Cutter	0	1	84	100	#N/A
Tie Handler	0	1	80	100	#N/A
Tie Inserter	0	1	85	100	#N/A
Truck	0	1	88	100	#N/A

TOTAL Leq DURING NORMAL OPERATIONS:

90

Verdugo - Site Grading

Assumed Attenuation: 6 dBA per doubling of distance

NOISE SOURCE	NUMBER OF UNITS	ASSUMED USE FACTOR	TYPICAL PRESSURE LEVEL @ 50 FT (dBA)	DISTANCE (Feet)	NOISE LEVEL Leq (dBA)
Auger/Drill Rig	1	1	81	50	81
Backhoe	0	1	80	50	#N/A
Ballast Equilzer	0	1	82	100	#N/A
Ballast Tamper	0	1	83	100	#N/A
Compactor	0	1	82	100	#N/A
Concrete Mixer	0	1	85	100	#N/A
Concrete Pump	0	1	82	100	#N/A
Concrete Vibratotr	0	1	76	100	#N/A
Crane Derrick	0	1	88	100	#N/A
Crane Mobile	1	1	83	50	83
Dozer	0	1	85	100	#N/A
Electric Drill	0	1	56	100	#N/A
Forklift, 40 HP	0	1	82	100	#N/A
Generator	0	1	81	100	#N/A
Grader	0	1	85	100	#N/A
Impact Wrench	0	1	85	100	#N/A
Jack Hammer	0	1	88	100	#N/A
Loader	3	1	85	50	90
Paver	0	1	89	100	#N/A
Pile Driver - Impact	0	1	101	100	#N/A
Pile Driver- Sonic	0	1	96	100	#N/A
Pneunatic Tools	0	1	85	50	#N/A
Pump	0	1	76	100	#N/A
Rail Saw	0	1	90	100	#N/A
Rock Drill	0	1	98	100	#N/A
Roller	0	1	74	100	#N/A
Saw	0	1	76	100	#N/A
Scarifier	0	1	83	100	#N/A
Scraper	0	1	89	100	#N/A
Shovel	0	1	82	100	#N/A
Spike Driver	0	1	77	100	#N/A
Tie Cutter	0	1	84	100	#N/A
Tie Handler	0	1	80	100	#N/A
Tie Inserter	0	1	85	100	#N/A
Truck	1	1	88	50	88

TOTAL Leq DURING NORMAL OPERATIONS:

91

Verdugo - Building Construction

Assumed Attenuation: 6 dBA per doubling of distance

NOISE SOURCE	NUMBER OF UNITS	ASSUMED USE FACTOR	TYPICAL PRESSURE LEVEL @ 50 FT (dBA)	DISTANCE (Feet)	NOISE LEVEL Leq (dBA)
Auger/Drill Rig	0	1	81	50	#N/A
Backhoe	0	1	80	50	#N/A
Ballast Equilzer	0	1	82	100	#N/A
Ballast Tamper	0	1	83	100	#N/A
Compactor	0	1	82	100	#N/A
Concrete Mixer	0	1	85	100	#N/A
Concrete Pump	1	1	82	100	76
Concrete Vibrator	0	1	76	50	#N/A
Crane Derrick	0	1	88	100	#N/A
Crane Mobile	1	1	83	50	83
Dozer	0	1	85	100	#N/A
Electric Drill	50	1	56	50	73
Forklift, 40 HP	4	1	82	50	88
Generator	0	1	81	100	#N/A
Grader	0	1	85	100	#N/A
Impact Wrench	0	1	85	100	#N/A
Jack Hammer	0	1	88	100	#N/A
Loader	0	1	85	50	#N/A
Paver	0	1	89	100	#N/A
Pile Driver - Impact	0	1	101	100	#N/A
Pile Driver- Sonic	0	1	96	100	#N/A
Pneumatic Tools	0	1	85	50	#N/A
Pump	0	1	76	100	#N/A
Rail Saw	0	1	90	100	#N/A
Rock Drill	0	1	98	100	#N/A
Roller	0	1	74	100	#N/A
Saw	50	1	76	50	93
Scarifier	0	1	83	100	#N/A
Scraper	0	1	89	100	#N/A
Shovel	0	1	82	100	#N/A
Spike Driver	0	1	77	100	#N/A
Tie Cutter	0	1	84	100	#N/A
Tie Handler	0	1	80	100	#N/A
Tie Inserter	0	1	85	100	#N/A
Truck	0	1	88	50	#N/A

TOTAL Leq DURING NORMAL OPERATIONS:

95

TO DETERMINE NOISE CONTOURS FOR A GIVEN NOISE LEVEL

ATTENUATION RATE: dBA/DOUBLING OF DISTANCE

(Choice: 3, 4.5, or 6)

NOISE LEVEL: dBA

REFERENCE DISTANCE: FEET

NOISE CONTOUR	DISTANCE FROM SOURCE	SPECIFIC DISTANCE	NOISE LEVEL
75	281	75	86.5
70	500	100	84.0
65	889	200	78.0
60	1581	300	74.4
55	2812	400	71.9
50	5000		
75	281		
74	315		
73	354		
72	397		
71	446		
70	500		
69	561		
68	629		
67	706		
66	792		
65	889		
64	998		
63	1119		
62	1256		
61	1409		
60	1581		

TO DETERMINE NOISE CONTOURS FOR A GIVEN NOISE LEVEL

ATTENUATION RATE: dBA/DOUBLING OF DISTANCE

(Choice: 3, 4.5, or 6)

NOISE LEVEL: dBA

REFERENCE DISTANCE: FEET

20

NOISE CONTOUR	DISTANCE FROM SOURCE	SPECIFIC DISTANCE	NOISE LEVEL
75	315	75	87.5
70	561	100	85.0
65	998	200	79.0
60	1774	300	75.4
55	3155	400	72.9
50	5610		
75	315		
74	354		
73	397		
72	446		
71	500		
70	561		
69	629		
68	706		
67	792		
66	889		
65	998		
64	1119		
63	1256		
62	1409		
61	1581		
60	1774		

TO DETERMINE NOISE CONTOURS FOR A GIVEN NOISE LEVEL

ATTENUATION RATE: dBA/DOUBLING OF DISTANCE

(Choice: 3, 4.5, or 6)

NOISE LEVEL: dBA

REFERENCE DISTANCE: FEET

NOISE CONTOUR	DISTANCE FROM SOURCE	SPECIFIC DISTANCE	NOISE LEVEL
75	500	75	91.5
70	889	100	89.0
65	1581	200	83.0
60	2812	300	79.4
55	5000	400	76.9
50	8891		
75	500		
74	561		
73	629		
72	706		
71	792		
70	889		
69	998		
68	1119		
67	1256		
66	1409		
65	1581		
64	1774		
63	1991		
62	2233		
61	2506		
60	2812		