

Appendix F
Noise Analysis

**Long-Term 24 Hour Continuous Noise Monitoring
Model Input Sheet**



Project: 60660194 - Hotel Sonoma EIR

Date: **Wednesday, April 27, 2022** to **Thursday, April 28, 2022**

Site: LT-02

Hour	Leq	Lmax	L50	L90
16:00	48.8	68.1	46.5	44.3
17:00	47.1	63.2	45.3	43.6
18:00	50.6	72.4	44.5	42.6
19:00	44.5	61.6	43.3	42.0
20:00	43.6	60.5	41.6	40.4
21:00	49.6	74.5	41.5	39.6
22:00	39.8	62.4	37.8	36.1
23:00	38.2	55.2	37.3	36.0
0:00	36.7	50.3	36.0	35.1
1:00	39.0	58.8	36.9	35.9
2:00	37.1	51.0	36.1	35.2
3:00	37.7	56.2	35.6	34.8
4:00	39.4	59.9	37.2	36.0
5:00	42.6	62.0	39.2	37.1
6:00	45.2	65.0	41.4	38.7
7:00	45.1	62.6	42.8	40.2
8:00	50.9	60.0	50.3	48.0
9:00	51.4	67.1	49.9	47.7
10:00	52.2	76.7	49.4	47.4
11:00	50.2	66.7	48.0	46.4
12:00	49.4	70.0	47.2	45.2
13:00	50.3	70.9	48.9	46.6
14:00	52.2	72.7	49.9	47.8
15:00	55.8	85.5	51.0	48.4

Daytime (7 a.m. - 10 p.m.)
Nighttime (10 p.m. - 7 a.m.)

Averages			
Leq	Lmax	L50	L90
50.5	68.8	46.7	44.7
40.4	57.9	37.5	36.1

Daytime (7 a.m. - 10 p.m.)
Nighttime (10 p.m. - 7 a.m.)

Uppermost-Level			
Leq	Lmax	L50	L90
55.8	85.5	51.0	48.4
45.2	65.0	41.4	38.7

Percentage of Energy	
Daytime	94%
Nighttime	6%

Calculated L_{dn}, dBA
50.5

Long-Term 24 Hour Continuous Noise Monitoring
Model Input Sheet



Project: 60660194 - Hotel Sonoma EIR

Date: **Wednesday, April 27, 2022** to **Thursday, April 28, 2022**

Site: LT-02

Hour	Leq	Lmax	L50	L90
16:00	48.8	68.1	46.5	44.3
17:00	47.1	63.2	45.3	43.6
18:00	50.6	72.4	44.5	42.6
19:00	44.5	61.6	43.3	42.0
20:00	43.6	60.5	41.6	40.4
21:00	49.6	74.5	41.5	39.6
22:00	39.8	62.4	37.8	36.1
23:00	38.2	55.2	37.3	36.0
0:00	36.7	50.3	36.0	35.1
1:00	39.0	58.8	36.9	35.9
2:00	37.1	51.0	36.1	35.2
3:00	37.7	56.2	35.6	34.8
4:00	39.4	59.9	37.2	36.0
5:00	42.6	62.0	39.2	37.1
6:00	45.2	65.0	41.4	38.7
7:00	45.1	62.6	42.8	40.2
8:00	50.9	60.0	50.3	48.0
9:00	51.4	67.1	49.9	47.7
10:00	52.2	76.7	49.4	47.4
11:00	50.2	66.7	48.0	46.4
12:00	49.4	70.0	47.2	45.2
13:00	50.3	70.9	48.9	46.6
14:00	52.2	72.7	49.9	47.8
15:00	55.8	85.5	51.0	48.4

Averages				
	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	51.1	69.7	47.8	45.7
Evening (7 p.m. - 9 p.m.)	46.7	65.5	42.1	40.6
Nighttime (9 p.m. - 7 a.m.)	40.4	57.9	37.5	36.1

Uppermost-Level				
	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	55.8	85.5	51.0	48.4
Evening (7 p.m. - 9 p.m.)	49.6	74.5	43.3	42.0
Nighttime (9 p.m. - 7 a.m.)	45.2	65.0	41.4	38.7

Percentage of Energy	
Daytime	86%
Evening	8%
Nighttime	6%

Calculated CNEL, dBA
50.9

Measurement Site	Address	Date		Start Time	Duration
		From	To		
LT-01	Within Project Site (Northern Boundary)	4/27/22	4/28/22	16:00	24 Hour
LT-02	Within Project Site (Southern Boundary)	4/27/22	4/28/22	16:00	24 Hour
ST-01	East of Project Site (Krave Jerky Outside Seating Area)	4/28/22		15:18	0:17
ST-02	West of Project Site along 1st West Street	4/28/22		15:37	0:15
ST-03	North of the Project Site along Highway 12	4/28/22		15:58	0:15

Daytime		Nighttime		Ldn
Leq	Lmax	Leq	Lmax	
54.0	73.2	47.3	67.7	55.5
50.5	68.8	40.4	57.9	50.5
52.4	65.5	--	--	--
55.3	67.5	--	--	--
59.8	74.8	--	--	--

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : Hotel Sonoma EIR
Project Number : 60660194
Modeling Condition : Weekday PM Existing
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn

K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	First Street West	West Spain Street	North of West Spain Street	3180	25	50	97	1	2	87	0	13	
2	First Street West	West Spain Street	South of West Spain Street	2590	25	50	97	1	2	87	0	13	
3	West Spain Street	First Street West	East of First Street West	6400	25	50	97	1	2	87	0	13	
4	West Spain Street	First Street West	West of First Street West	7350	25	50	97	1	2	87	0	13	
5	Fifth Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	7850	25	50	97	1	2	87	0	13	
6	Fifth Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	12080	25	50	97	1	2	87	0	13	
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street West	12420	25	50	97	1	2	87	0	13	
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Street West	16130	25	50	97	1	2	87	0	13	
9	Second Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	2630	25	50	97	1	2	87	0	13	
10	Second Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	6750	25	50	97	1	2	87	0	13	
11	West Napa Street (SR 12)	Second Street West	East of Second Street West	9920	25	50	97	1	2	87	0	13	
12	West Napa Street (SR 12)	Second Street West	West of Second Street West	11940	25	50	97	1	2	87	0	13	
13	First Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	2730	25	50	97	1	2	87	0	13	
14	First Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	1170	25	50	97	1	2	87	0	13	
15	West Napa Street (SR 12)	First Street West	East of First Street West	10120	25	50	97	1	2	87	0	13	
16	West Napa Street (SR 12)	First Street West	West of First Street West	9740	25	50	97	1	2	87	0	13	
17	Broadway (SR 12)	Napa Street	North of Napa Street	1520	25	50	97	1	2	87	0	13	
18	Broadway (SR 12)	Napa Street	South of Napa Street	7010	35	50	97	1	2	87	0	13	
19	Napa Street	Broadway (SR 12)	East of Broadway (SR 12)	6740	25	50	97	1	2	87	0	13	
20	Napa Street	Broadway (SR 12)	West of Broadway (SR 12)	10170	25	50	97	1	2	87	0	13	
21	First Street East	East Napa Street	North of East Napa Street	3860	25	50	97	1	2	87	0	13	
22	First Street East	East Napa Street	South of East Napa Street	1380	25	50	97	1	2	87	0	13	
23	East Napa Street	First Street East	East of First Street East	4530	25	50	97	1	2	87	0	13	
24	East Napa Street	First Street East	West of First Street East	6410	25	50	97	1	2	87	0	13	

0

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : Hotel Sonoma EIR
Project Number : 60660194

Modeling Condition : Weekday PM Existing

Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	First Street West	West Spain Street	North of West Spai	54.5	46.3	56.9	59.1	4	13	41	130	410
2	First Street West	West Spain Street	South of West Spa	53.6	45.4	56.0	58.2	3	11	33	106	334
3	West Spain Street	First Street West	East of First Street	57.6	49.3	60.0	62.2	8	26	83	261	825
4	West Spain Street	First Street West	West of First Stree	58.2	49.9	60.6	62.8	9	30	95	300	947
5	Fifth Street West	West Napa Street	(North of West Napa	58.5	50.2	60.9	63.1	10	32	101	320	1012
6	Fifth Street West	West Napa Street	(South of West Nap	60.3	52.1	62.7	64.9	16	49	156	492	1557
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street	60.5	52.2	62.8	65.1	16	51	160	506	1601
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Stree	61.6	53.3	64.0	66.2	21	66	208	658	2079
9	Second Street West	West Napa Street	(North of West Napa	53.7	45.5	56.1	58.3	3	11	34	107	339
10	Second Street West	West Napa Street	(South of West Nap	57.8	49.6	60.2	62.4	9	28	87	275	870
11	West Napa Street (SR 12)	Second Street We	East of Second Str	59.5	51.2	61.9	64.1	13	40	128	404	1279
12	West Napa Street (SR 12)	Second Street We	West of Second St	60.3	52.0	62.7	64.9	15	49	154	487	1539
13	First Street West	West Napa Street	(North of West Napa	53.9	45.6	56.3	58.5	4	11	35	111	352
14	First Street West	West Napa Street	(South of West Nap	50.2	41.9	52.6	54.8	2	5	15	48	151
15	West Napa Street (SR 12)	First Street West	East of First Street	59.6	51.3	62.0	64.2	13	41	130	413	1305
16	West Napa Street (SR 12)	First Street West	West of First Stree	59.4	51.1	61.8	64.0	13	40	126	397	1256
17	Broadway (SR 12)	Napa Street	North of Napa Stre	51.3	43.1	53.7	55.9	2	6	20	62	196
18	Broadway (SR 12)	Napa Street	South of Napa Stre	62.2	52.0	60.2	64.6	14	45	143	452	1429
19	Napa Street	Broadway (SR 12)	East of Broadway (	57.8	49.6	60.2	62.4	9	27	87	275	869
20	Napa Street	Broadway (SR 12)	West of Broadway	59.6	51.3	62.0	64.2	13	41	131	415	1311
21	First Street East	East Napa Street	North of East Napa	55.4	47.1	57.8	60.0	5	16	50	157	498
22	First Street East	East Napa Street	South of East Napa	50.9	42.7	53.3	55.5	2	6	18	56	178
23	East Napa Street	First Street East	East of First Street	56.1	47.8	58.5	60.7	6	18	58	185	584
24	East Napa Street	First Street East	West of First Stree	57.6	49.3	60.0	62.2	8	26	83	261	826

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : Hotel Sonoma EIR
Project Number : 60660194
Modeling Condition : Weekday PM E+P
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn

K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	First Street West	West Spain Street	North of West Spain Street	3180	25	50	97	1	2	87	0	13	
2	First Street West	West Spain Street	South of West Spain Street	2600	25	50	97	1	2	87	0	13	
3	West Spain Street	First Street West	East of First Street West	6420	25	50	97	1	2	87	0	13	
4	West Spain Street	First Street West	West of First Street West	7380	25	50	97	1	2	87	0	13	
5	Fifth Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	7850	25	50	97	1	2	87	0	13	
6	Fifth Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	12090	25	50	97	1	2	87	0	13	
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street West	12510	25	50	97	1	2	87	0	13	
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Street West	16230	25	50	97	1	2	87	0	13	
9	Second Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	2660	25	50	97	1	2	87	0	13	
10	Second Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	6770	25	50	97	1	2	87	0	13	
11	West Napa Street (SR 12)	Second Street West	East of Second Street West	10060	25	50	97	1	2	87	0	13	
12	West Napa Street (SR 12)	Second Street West	West of Second Street West	12030	25	50	97	1	2	87	0	13	
13	First Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	2740	25	50	97	1	2	87	0	13	
14	First Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	1410	25	50	97	1	2	87	0	13	
15	West Napa Street (SR 12)	First Street West	East of First Street West	10420	25	50	97	1	2	87	0	13	
16	West Napa Street (SR 12)	First Street West	West of First Street West	10010	25	50	97	1	2	87	0	13	
17	Broadway (SR 12)	Napa Street	North of Napa Street	1520	25	50	97	1	2	87	0	13	
18	Broadway (SR 12)	Napa Street	South of Napa Street	7130	35	50	97	1	2	87	0	13	
19	Napa Street	Broadway (SR 12)	East of Broadway (SR 12)	6830	25	50	97	1	2	87	0	13	
20	Napa Street	Broadway (SR 12)	West of Broadway (SR 12)	10380	25	50	97	1	2	87	0	13	
21	First Street East	East Napa Street	North of East Napa Street	3880	25	50	97	1	2	87	0	13	
22	First Street East	East Napa Street	South of East Napa Street	1380	25	50	97	1	2	87	0	13	
23	East Napa Street	First Street East	East of First Street East	4620	25	50	97	1	2	87	0	13	
24	East Napa Street	First Street East	West of First Street East	6520	25	50	97	1	2	87	0	13	

0

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels

Project Name : Hotel Sonoma EIR
Project Number : 60660194



Modeling Condition : Weekday PM E+P

Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	First Street West	West Spain Street	North of West Spai	54.5	46.3	56.9	59.1	4	13	41	130	410
2	First Street West	West Spain Street	South of West Spa	53.7	45.4	56.1	58.3	3	11	34	106	335
3	West Spain Street	First Street West	East of First Street	57.6	49.3	60.0	62.2	8	26	83	262	828
4	West Spain Street	First Street West	West of First Stree	58.2	49.9	60.6	62.8	10	30	95	301	951
5	Fifth Street West	West Napa Street	(North of West Napa	58.5	50.2	60.9	63.1	10	32	101	320	1012
6	Fifth Street West	West Napa Street	(South of West Nap	60.3	52.1	62.7	64.9	16	49	156	493	1558
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street	60.5	52.2	62.9	65.1	16	51	161	510	1613
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Stree	61.6	53.4	64.0	66.2	21	66	209	662	2092
9	Second Street West	West Napa Street	(North of West Napa	53.8	45.5	56.2	58.4	3	11	34	108	343
10	Second Street West	West Napa Street	(South of West Nap	57.8	49.6	60.2	62.4	9	28	87	276	873
11	West Napa Street (SR 12)	Second Street We	East of Second Str	59.5	51.3	61.9	64.1	13	41	130	410	1297
12	West Napa Street (SR 12)	Second Street We	West of Second St	60.3	52.1	62.7	64.9	16	49	155	490	1551
13	First Street West	West Napa Street	(North of West Napa	53.9	45.6	56.3	58.5	4	11	35	112	353
14	First Street West	West Napa Street	(South of West Nap	51.0	42.8	53.4	55.6	2	6	18	57	182
15	West Napa Street (SR 12)	First Street West	East of First Street	59.7	51.4	62.1	64.3	13	42	134	425	1343
16	West Napa Street (SR 12)	First Street West	West of First Stree	59.5	51.3	61.9	64.1	13	41	129	408	1290
17	Broadway (SR 12)	Napa Street	North of Napa Stre	51.3	43.1	53.7	55.9	2	6	20	62	196
18	Broadway (SR 12)	Napa Street	South of Napa Stre	62.3	52.1	60.3	64.6	15	46	145	460	1454
19	Napa Street	Broadway (SR 12)	East of Broadway (	57.9	49.6	60.2	62.5	9	28	88	278	880
20	Napa Street	Broadway (SR 12)	West of Broadway	59.7	51.4	62.1	64.3	13	42	134	423	1338
21	First Street East	East Napa Street	North of East Napa	55.4	47.2	57.8	60.0	5	16	50	158	500
22	First Street East	East Napa Street	South of East Napa	50.9	42.7	53.3	55.5	2	6	18	56	178
23	East Napa Street	First Street East	East of First Street	56.2	47.9	58.6	60.8	6	19	60	188	596
24	East Napa Street	First Street East	West of First Stree	57.7	49.4	60.0	62.3	8	27	84	266	840

Table x.xx-xx. Traffic Noise—Existing Condition and Existing plus Project Condition

Roadway	Roadway Segment
First Street West	From West Spain Street to North of West Spain Street
First Street West	From West Spain Street to South of West Spain Street
West Spain Street	From First Street West to East of First Street West
West Spain Street	From First Street West to West of First Street West
Fifth Street West	From West Napa Street (SR 12) to North of West Napa Street (SR 12)
Fifth Street West	From West Napa Street (SR 12) to South of West Napa Street (SR 12)
West Napa Street (SR 12)	From Fifth Street West to East of Fifth Street West
West Napa Street (SR 12)	From Fifth Street West to West of Fifth Street West
Second Street West	From West Napa Street (SR 12) to North of West Napa Street (SR 12)
Second Street West	From West Napa Street (SR 12) to South of West Napa Street (SR 12)
West Napa Street (SR 12)	From Second Street West to East of Second Street West
West Napa Street (SR 12)	From Second Street West to West of Second Street West
First Street West	From West Napa Street (SR 12) to North of West Napa Street (SR 12)
First Street West	From West Napa Street (SR 12) to South of West Napa Street (SR 12)
West Napa Street (SR 12)	From First Street West to East of First Street West
West Napa Street (SR 12)	From First Street West to West of First Street West
Broadway (SR 12)	From Napa Street to North of Napa Street
Broadway (SR 12)	From Napa Street to South of Napa Street
Napa Street	From Broadway (SR 12) to East of Broadway (SR 12)
Napa Street	From Broadway (SR 12) to West of Broadway (SR 12)
First Street East	From East Napa Street to North of East Napa Street
First Street East	From East Napa Street to South of East Napa Street
East Napa Street	From First Street East to East of First Street East
East Napa Street	From First Street East to West of First Street East

Notes: dB = A-weighted
decibels; L_{dn} = day-night noise
Source: Modeling conducted
by AECOM in 2022

dB, Ldn at 50 feet Weekday PM Existing	Distance (Feet) to 70 dB	Distance (Feet) to 65 dB	Distance (Feet) to 60 dB	dB, Ldn at 50 feet Weekday PM E+P	Plus Project Increase, dB	Distance (Feet) to 70 dB	Distance (Feet) to 65 dB	Distance (Feet) to 60 dB
59.1	4	13	41	59.1	0.0	4	13	41
58.2	3	11	33	58.3	0.0	3	11	34
62.2	8	26	83	62.2	0.0	8	26	83
62.8	9	30	95	62.8	0.0	10	30	95
63.1	10	32	101	63.1	0.0	10	32	101
64.9	16	49	156	64.9	0.0	16	49	156
65.1	16	51	160	65.1	0.0	16	51	161
66.2	21	66	208	66.2	0.0	21	66	209
58.3	3	11	34	58.4	0.0	3	11	34
62.4	9	28	87	62.4	0.0	9	28	87
64.1	13	40	128	64.1	0.1	13	41	130
64.9	15	49	154	64.9	0.0	16	49	155
58.5	4	11	35	58.5	0.0	4	11	35
54.8	2	5	15	55.6	0.8	2	6	18
64.2	13	41	130	64.3	0.1	13	42	134
64.0	13	40	126	64.1	0.1	13	41	129
55.9	2	6	20	55.9	0.0	2	6	20
64.6	14	45	143	64.6	0.1	15	46	145
62.4	9	27	87	62.5	0.1	9	28	88
64.2	13	41	131	64.3	0.1	13	42	134
60.0	5	16	50	60.0	0.0	5	16	50
55.5	2	6	18	55.5	0.0	2	6	18
60.7	6	18	58	60.8	0.1	6	19	60
62.2	8	26	83	62.3	0.1	8	27	84

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : Hotel Sonoma EIR
Project Number : 60660194
Modeling Condition : Weekend PM Existing
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn

K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	First Street West	West Spain Street	North of West Spain Street	3830	25	50	97	1	2	87	0	13	
2	First Street West	West Spain Street	South of West Spain Street	3410	25	50	97	1	2	87	0	13	
3	West Spain Street	First Street West	East of First Street West	5530	25	50	97	1	2	87	0	13	
4	West Spain Street	First Street West	West of First Street West	6050	25	50	97	1	2	87	0	13	
5	Fifth Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	6070	25	50	97	1	2	87	0	13	
6	Fifth Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	10620	25	50	97	1	2	87	0	13	
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street West	10430	25	50	97	1	2	87	0	13	
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Street West	14660	25	50	97	1	2	87	0	13	
9	Second Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	2320	25	50	97	1	2	87	0	13	
10	Second Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	5020	25	50	97	1	2	87	0	13	
11	West Napa Street (SR 12)	Second Street West	East of Second Street West	9330	25	50	97	1	2	87	0	13	
12	West Napa Street (SR 12)	Second Street West	West of Second Street West	10090	25	50	97	1	2	87	0	13	
13	First Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	3180	25	50	97	1	2	87	0	13	
14	First Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	990	25	50	97	1	2	87	0	13	
15	West Napa Street (SR 12)	First Street West	East of First Street West	9130	25	50	97	1	2	87	0	13	
16	West Napa Street (SR 12)	First Street West	West of First Street West	9440	25	50	97	1	2	87	0	13	
17	Broadway (SR 12)	Napa Street	North of Napa Street	360	25	50	97	1	2	87	0	13	
18	Broadway (SR 12)	Napa Street	South of Napa Street	7070	35	50	97	1	2	87	0	13	
19	Napa Street	Broadway (SR 12)	East of Broadway (SR 12)	6630	25	50	97	1	2	87	0	13	
20	Napa Street	Broadway (SR 12)	West of Broadway (SR 12)	9000	25	50	97	1	2	87	0	13	
21	First Street East	East Napa Street	North of East Napa Street	3950	25	50	97	1	2	87	0	13	
22	First Street East	East Napa Street	South of East Napa Street	860	25	50	97	1	2	87	0	13	
23	East Napa Street	First Street East	East of First Street East	4500	25	50	97	1	2	87	0	13	
24	East Napa Street	First Street East	West of First Street East	6610	25	50	97	1	2	87	0	13	

0

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : Hotel Sonoma EIR
Project Number : 60660194

Modeling Condition : Weekend PM Existing

Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	First Street West	West Spain Street	North of West Spai	55.3	47.1	57.7	59.9	5	16	49	156	494
2	First Street West	West Spain Street	South of West Spa	54.8	46.6	57.2	59.4	4	14	44	139	440
3	West Spain Street	First Street West	East of First Street	56.9	48.7	59.3	61.5	7	23	71	225	713
4	West Spain Street	First Street West	West of First Stree	57.3	49.1	59.7	61.9	8	25	78	247	780
5	Fifth Street West	West Napa Street	(North of West Napa	57.3	49.1	59.7	61.9	8	25	78	247	782
6	Fifth Street West	West Napa Street	(South of West Nap	59.8	51.5	62.2	64.4	14	43	137	433	1369
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street	59.7	51.4	62.1	64.3	13	43	134	425	1345
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Stree	61.2	52.9	63.6	65.8	19	60	189	598	1890
9	Second Street West	West Napa Street	(North of West Napa	53.2	44.9	55.6	57.8	3	9	30	95	299
10	Second Street West	West Napa Street	(South of West Nap	56.5	48.3	58.9	61.1	6	20	65	205	647
11	West Napa Street (SR 12)	Second Street We	East of Second Str	59.2	51.0	61.6	63.8	12	38	120	380	1203
12	West Napa Street (SR 12)	Second Street We	West of Second St	59.6	51.3	61.9	64.2	13	41	130	411	1301
13	First Street West	West Napa Street	(North of West Napa	54.5	46.3	56.9	59.1	4	13	41	130	410
14	First Street West	West Napa Street	(South of West Nap	49.5	41.2	51.9	54.1	1	4	13	40	128
15	West Napa Street (SR 12)	First Street West	East of First Street	59.1	50.9	61.5	63.7	12	37	118	372	1177
16	West Napa Street (SR 12)	First Street West	West of First Stree	59.3	51.0	61.7	63.9	12	38	122	385	1217
17	Broadway (SR 12)	Napa Street	North of Napa Stre	45.1	36.8	47.5	49.7	0	1	5	15	46
18	Broadway (SR 12)	Napa Street	South of Napa Stre	62.2	52.0	60.2	64.6	14	46	144	456	1441
19	Napa Street	Broadway (SR 12)	East of Broadway (	57.7	49.5	60.1	62.3	9	27	85	270	855
20	Napa Street	Broadway (SR 12)	West of Broadway	59.1	50.8	61.4	63.7	12	37	116	367	1160
21	First Street East	East Napa Street	North of East Napa	55.5	47.2	57.9	60.1	5	16	51	161	509
22	First Street East	East Napa Street	South of East Napa	48.9	40.6	51.3	53.5	1	4	11	35	111
23	East Napa Street	First Street East	East of First Street	56.0	47.8	58.4	60.6	6	18	58	183	580
24	East Napa Street	First Street East	West of First Stree	57.7	49.5	60.1	62.3	9	27	85	269	852

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : Hotel Sonoma EIR
Project Number : 60660194
Modeling Condition : Weekend PM E+P
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn

K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	First Street West	West Spain Street	North of West Spain Street	3830	25	50	97	1	2	87	0	13	
2	First Street West	West Spain Street	South of West Spain Street	3420	25	50	97	1	2	87	0	13	
3	West Spain Street	First Street West	East of First Street West	5550	25	50	97	1	2	87	0	13	
4	West Spain Street	First Street West	West of First Street West	6080	25	50	97	1	2	87	0	13	
5	Fifth Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	6070	25	50	97	1	2	87	0	13	
6	Fifth Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	10630	25	50	97	1	2	87	0	13	
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street West	10470	25	50	97	1	2	87	0	13	
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Street West	14710	25	50	97	1	2	87	0	13	
9	Second Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	2360	25	50	97	1	2	87	0	13	
10	Second Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	5050	25	50	97	1	2	87	0	13	
11	West Napa Street (SR 12)	Second Street West	East of Second Street West	9440	25	50	97	1	2	87	0	13	
12	West Napa Street (SR 12)	Second Street West	West of Second Street West	10130	25	50	97	1	2	87	0	13	
13	First Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	3190	25	50	97	1	2	87	0	13	
14	First Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	1250	25	50	97	1	2	87	0	13	
15	West Napa Street (SR 12)	First Street West	East of First Street West	9480	25	50	97	1	2	87	0	13	
16	West Napa Street (SR 12)	First Street West	West of First Street West	9740	25	50	97	1	2	87	0	13	
17	Broadway (SR 12)	Napa Street	North of Napa Street	360	25	50	97	1	2	87	0	13	
18	Broadway (SR 12)	Napa Street	South of Napa Street	7210	35	50	97	1	2	87	0	13	
19	Napa Street	Broadway (SR 12)	East of Broadway (SR 12)	6740	25	50	97	1	2	87	0	13	
20	Napa Street	Broadway (SR 12)	West of Broadway (SR 12)	9250	25	50	97	1	2	87	0	13	
21	First Street East	East Napa Street	North of East Napa Street	3970	25	50	97	1	2	87	0	13	
22	First Street East	East Napa Street	South of East Napa Street	860	25	50	97	1	2	87	0	13	
23	East Napa Street	First Street East	East of First Street East	4610	25	50	97	1	2	87	0	13	
24	East Napa Street	First Street East	West of First Street East	6740	25	50	97	1	2	87	0	13	

0

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels

Project Name : Hotel Sonoma EIR
Project Number : 60660194



Modeling Condition : Weekend PM E+P

Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	First Street West	West Spain Street	North of West Spai	55.3	47.1	57.7	59.9	5	16	49	156	494
2	First Street West	West Spain Street	South of West Spa	54.9	46.6	57.2	59.5	4	14	44	139	441
3	West Spain Street	First Street West	East of First Street	57.0	48.7	59.3	61.6	7	23	72	226	715
4	West Spain Street	First Street West	West of First Stree	57.4	49.1	59.7	62.0	8	25	78	248	784
5	Fifth Street West	West Napa Street	(North of West Napa	57.3	49.1	59.7	61.9	8	25	78	247	782
6	Fifth Street West	West Napa Street	(South of West Nap	59.8	51.5	62.2	64.4	14	43	137	433	1370
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street	59.7	51.5	62.1	64.3	13	43	135	427	1350
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Stree	61.2	52.9	63.6	65.8	19	60	190	600	1896
9	Second Street West	West Napa Street	(North of West Napa	53.2	45.0	55.6	57.8	3	10	30	96	304
10	Second Street West	West Napa Street	(South of West Nap	56.5	48.3	58.9	61.1	7	21	65	206	651
11	West Napa Street (SR 12)	Second Street We	East of Second Str	59.3	51.0	61.7	63.9	12	38	122	385	1217
12	West Napa Street (SR 12)	Second Street We	West of Second St	59.6	51.3	62.0	64.2	13	41	131	413	1306
13	First Street West	West Napa Street	(North of West Napa	54.6	46.3	56.9	59.2	4	13	41	130	411
14	First Street West	West Napa Street	(South of West Nap	50.5	42.2	52.9	55.1	2	5	16	51	161
15	West Napa Street (SR 12)	First Street West	East of First Street	59.3	51.0	61.7	63.9	12	39	122	386	1222
16	West Napa Street (SR 12)	First Street West	West of First Stree	59.4	51.1	61.8	64.0	13	40	126	397	1256
17	Broadway (SR 12)	Napa Street	North of Napa Stre	45.1	36.8	47.5	49.7	0	1	5	15	46
18	Broadway (SR 12)	Napa Street	South of Napa Stre	62.3	52.1	60.3	64.7	15	46	147	465	1470
19	Napa Street	Broadway (SR 12)	East of Broadway (	57.8	49.6	60.2	62.4	9	27	87	275	869
20	Napa Street	Broadway (SR 12)	West of Broadway	59.2	50.9	61.6	63.8	12	38	119	377	1192
21	First Street East	East Napa Street	North of East Napa	55.5	47.3	57.9	60.1	5	16	51	162	512
22	First Street East	East Napa Street	South of East Napa	48.9	40.6	51.3	53.5	1	4	11	35	111
23	East Napa Street	First Street East	East of First Street	56.1	47.9	58.5	60.8	6	19	59	188	594
24	East Napa Street	First Street East	West of First Stree	57.8	49.6	60.2	62.4	9	27	87	275	869

Table x.xx-xx. Traffic Noise—Existing Condition and Existing plus Project Condition

Roadway	Roadway Segment
First Street West	From West Spain Street to North of West Spain Street
First Street West	From West Spain Street to South of West Spain Street
West Spain Street	From First Street West to East of First Street West
West Spain Street	From First Street West to West of First Street West
Fifth Street West	From West Napa Street (SR 12) to North of West Napa Street (SR 12)
Fifth Street West	From West Napa Street (SR 12) to South of West Napa Street (SR 12)
West Napa Street (SR 12)	From Fifth Street West to East of Fifth Street West
West Napa Street (SR 12)	From Fifth Street West to West of Fifth Street West
Second Street West	From West Napa Street (SR 12) to North of West Napa Street (SR 12)
Second Street West	From West Napa Street (SR 12) to South of West Napa Street (SR 12)
West Napa Street (SR 12)	From Second Street West to East of Second Street West
West Napa Street (SR 12)	From Second Street West to West of Second Street West
First Street West	From West Napa Street (SR 12) to North of West Napa Street (SR 12)
First Street West	From West Napa Street (SR 12) to South of West Napa Street (SR 12)
West Napa Street (SR 12)	From First Street West to East of First Street West
West Napa Street (SR 12)	From First Street West to West of First Street West
Broadway (SR 12)	From Napa Street to North of Napa Street
Broadway (SR 12)	From Napa Street to South of Napa Street
Napa Street	From Broadway (SR 12) to East of Broadway (SR 12)
Napa Street	From Broadway (SR 12) to West of Broadway (SR 12)
First Street East	From East Napa Street to North of East Napa Street
First Street East	From East Napa Street to South of East Napa Street
East Napa Street	From First Street East to East of First Street East
East Napa Street	From First Street East to West of First Street East

Notes: dB = A-weighted
decibels; L_{dn} = day-night noise
Source: Modeling conducted
by AECOM in 2022

dB, Ldn at 50 feet Weekend PM Existing	Distance (Feet) to 70 dB	Distance (Feet) to 65 dB	Distance (Feet) to 60 dB	dB, Ldn at 50 feet Weekday PM E+P	Plus Project Increase, dB	Distance (Feet) to 70 dB	Distance (Feet) to 65 dB	Distance (Feet) to 60 dB
59.9	5	16	49	59.9	0.0	5	16	49
59.4	4	14	44	59.5	0.0	4	14	44
61.5	7	23	71	61.6	0.0	7	23	72
61.9	8	25	78	62.0	0.0	8	25	78
61.9	8	25	78	61.9	0.0	8	25	78
64.4	14	43	137	64.4	0.0	14	43	137
64.3	13	43	134	64.3	0.0	13	43	135
65.8	19	60	189	65.8	0.0	19	60	190
57.8	3	9	30	57.8	0.1	3	10	30
61.1	6	20	65	61.1	0.0	7	21	65
63.8	12	38	120	63.9	0.1	12	38	122
64.2	13	41	130	64.2	0.0	13	41	131
59.1	4	13	41	59.2	0.0	4	13	41
54.1	1	4	13	55.1	1.0	2	5	16
63.7	12	37	118	63.9	0.2	12	39	122
63.9	12	38	122	64.0	0.1	13	40	126
49.7	0	1	5	49.7	0.0	0	1	5
64.6	14	46	144	64.7	0.1	15	46	147
62.3	9	27	85	62.4	0.1	9	27	87
63.7	12	37	116	63.8	0.1	12	38	119
60.1	5	16	51	60.1	0.0	5	16	51
53.5	1	4	11	53.5	0.0	1	4	11
60.6	6	18	58	60.8	0.1	6	19	59
62.3	9	27	85	62.4	0.1	9	27	87

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : Hotel Sonoma EIR
Project Number : 60660194
Modeling Condition : Weekday PM Future
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn

K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	First Street West	West Spain Street	North of West Spain Street	4070	25	50	97	1	2	87	0	13	
2	First Street West	West Spain Street	South of West Spain Street	3310	25	50	97	1	2	87	0	13	
3	West Spain Street	First Street West	East of First Street West	8180	25	50	97	1	2	87	0	13	
4	West Spain Street	First Street West	West of First Street West	9400	25	50	97	1	2	87	0	13	
5	Fifth Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	8520	25	50	97	1	2	87	0	13	
6	Fifth Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	12770	25	50	97	1	2	87	0	13	
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street West	16340	25	50	97	1	2	87	0	13	
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Street West	20310	25	50	97	1	2	87	0	13	
9	Second Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	2630	25	50	97	1	2	87	0	13	
10	Second Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	6800	25	50	97	1	2	87	0	13	
11	West Napa Street (SR 12)	Second Street West	East of Second Street West	13370	25	50	97	1	2	87	0	13	
12	West Napa Street (SR 12)	Second Street West	West of Second Street West	15400	25	50	97	1	2	87	0	13	
13	First Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	3500	25	50	97	1	2	87	0	13	
14	First Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	1500	25	50	97	1	2	87	0	13	
15	West Napa Street (SR 12)	First Street West	East of First Street West	12930	25	50	97	1	2	87	0	13	
16	West Napa Street (SR 12)	First Street West	West of First Street West	12450	25	50	97	1	2	87	0	13	
17	Broadway (SR 12)	Napa Street	North of Napa Street	1520	25	50	97	1	2	87	0	13	
18	Broadway (SR 12)	Napa Street	South of Napa Street	9130	35	50	97	1	2	87	0	13	
19	Napa Street	Broadway (SR 12)	East of Broadway (SR 12)	8280	25	50	97	1	2	87	0	13	
20	Napa Street	Broadway (SR 12)	West of Broadway (SR 12)	13590	25	50	97	1	2	87	0	13	
21	First Street East	East Napa Street	North of East Napa Street	4130	25	50	97	1	2	87	0	13	
22	First Street East	East Napa Street	South of East Napa Street	1380	25	50	97	1	2	87	0	13	
23	East Napa Street	First Street East	East of First Street East	6230	25	50	97	1	2	87	0	13	
24	East Napa Street	First Street East	West of First Street East	7960	25	50	97	1	2	87	0	13	

0

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : Hotel Sonoma EIR
Project Number : 60660194

Modeling Condition : Weekday PM Future

Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	First Street West	West Spain Street	North of West Spai	55.6	47.4	58.0	60.2	5	17	52	166	525
2	First Street West	West Spain Street	South of West Spa	54.7	46.5	57.1	59.3	4	13	43	135	427
3	West Spain Street	First Street West	East of First Street	58.6	50.4	61.0	63.2	11	33	105	333	1054
4	West Spain Street	First Street West	West of First Stree	59.2	51.0	61.6	63.8	12	38	121	383	1212
5	Fifth Street West	West Napa Street	(North of West Napa	58.8	50.6	61.2	63.4	11	35	110	347	1098
6	Fifth Street West	West Napa Street	(South of West Nap	60.6	52.3	63.0	65.2	16	52	165	521	1646
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street	61.6	53.4	64.0	66.2	21	67	211	666	2106
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Stree	62.6	54.3	65.0	67.2	26	83	262	828	2618
9	Second Street West	West Napa Street	(North of West Napa	53.7	45.5	56.1	58.3	3	11	34	107	339
10	Second Street West	West Napa Street	(South of West Nap	57.8	49.6	60.2	62.4	9	28	88	277	877
11	West Napa Street (SR 12)	Second Street We	East of Second Str	60.8	52.5	63.2	65.4	17	55	172	545	1723
12	West Napa Street (SR 12)	Second Street We	West of Second St	61.4	53.1	63.8	66.0	20	63	199	628	1985
13	First Street West	West Napa Street	(North of West Napa	55.0	46.7	57.3	59.6	5	14	45	143	451
14	First Street West	West Napa Street	(South of West Nap	51.3	43.0	53.7	55.9	2	6	19	61	193
15	West Napa Street (SR 12)	First Street West	East of First Street	60.6	52.4	63.0	65.2	17	53	167	527	1667
16	West Napa Street (SR 12)	First Street West	West of First Stree	60.5	52.2	62.9	65.1	16	51	160	508	1605
17	Broadway (SR 12)	Napa Street	North of Napa Stre	51.3	43.1	53.7	55.9	2	6	20	62	196
18	Broadway (SR 12)	Napa Street	South of Napa Stre	63.3	53.1	61.4	65.7	19	59	186	589	1861
19	Napa Street	Broadway (SR 12)	East of Broadway (	58.7	50.4	61.1	63.3	11	34	107	338	1067
20	Napa Street	Broadway (SR 12)	West of Broadway	60.8	52.6	63.2	65.4	18	55	175	554	1752
21	First Street East	East Napa Street	North of East Napa	55.7	47.4	58.1	60.3	5	17	53	168	532
22	First Street East	East Napa Street	South of East Napa	50.9	42.7	53.3	55.5	2	6	18	56	178
23	East Napa Street	First Street East	East of First Street	57.5	49.2	59.8	62.1	8	25	80	254	803
24	East Napa Street	First Street East	West of First Stree	58.5	50.3	60.9	63.1	10	32	103	324	1026

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : Hotel Sonoma EIR
Project Number : 60660194
Modeling Condition : Weekday PM E+P
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn

K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	First Street West	West Spain Street	North of West Spain Street	4070	25	50	97	1	2	87	0	13	
2	First Street West	West Spain Street	South of West Spain Street	3320	25	50	97	1	2	87	0	13	
3	West Spain Street	First Street West	East of First Street West	8200	25	50	97	1	2	87	0	13	
4	West Spain Street	First Street West	West of First Street West	9430	25	50	97	1	2	87	0	13	
5	Fifth Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	8520	25	50	97	1	2	87	0	13	
6	Fifth Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	12780	25	50	97	1	2	87	0	13	
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street West	16430	25	50	97	1	2	87	0	13	
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Street West	20410	25	50	97	1	2	87	0	13	
9	Second Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	2660	25	50	97	1	2	87	0	13	
10	Second Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	6820	25	50	97	1	2	87	0	13	
11	West Napa Street (SR 12)	Second Street West	East of Second Street West	13510	25	50	97	1	2	87	0	13	
12	West Napa Street (SR 12)	Second Street West	West of Second Street West	15490	25	50	97	1	2	87	0	13	
13	First Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	3510	25	50	97	1	2	87	0	13	
14	First Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	1740	25	50	97	1	2	87	0	13	
15	West Napa Street (SR 12)	First Street West	East of First Street West	13230	25	50	97	1	2	87	0	13	
16	West Napa Street (SR 12)	First Street West	West of First Street West	12720	25	50	97	1	2	87	0	13	
17	Broadway (SR 12)	Napa Street	North of Napa Street	1520	25	50	97	1	2	87	0	13	
18	Broadway (SR 12)	Napa Street	South of Napa Street	9250	35	50	97	1	2	87	0	13	
19	Napa Street	Broadway (SR 12)	East of Broadway (SR 12)	8370	25	50	97	1	2	87	0	13	
20	Napa Street	Broadway (SR 12)	West of Broadway (SR 12)	13800	25	50	97	1	2	87	0	13	
21	First Street East	East Napa Street	North of East Napa Street	4150	25	50	97	1	2	87	0	13	
22	First Street East	East Napa Street	South of East Napa Street	1380	25	50	97	1	2	87	0	13	
23	East Napa Street	First Street East	East of First Street East	6320	25	50	97	1	2	87	0	13	
24	East Napa Street	First Street East	West of First Street East	8070	25	50	97	1	2	87	0	13	

0

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : Hotel Sonoma EIR
Project Number : 60660194

Modeling Condition : Weekday PM E+P

Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	First Street West	West Spain Street	North of West Spai	55.6	47.4	58.0	60.2	5	17	52	166	525
2	First Street West	West Spain Street	South of West Spa	54.7	46.5	57.1	59.3	4	14	43	135	428
3	West Spain Street	First Street West	East of First Street	58.7	50.4	61.0	63.3	11	33	106	334	1057
4	West Spain Street	First Street West	West of First Stree	59.3	51.0	61.7	63.9	12	38	122	384	1216
5	Fifth Street West	West Napa Street	(North of West Napa	58.8	50.6	61.2	63.4	11	35	110	347	1098
6	Fifth Street West	West Napa Street	(South of West Nap	60.6	52.3	63.0	65.2	16	52	165	521	1647
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street	61.7	53.4	64.1	66.3	21	67	212	670	2118
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Stree	62.6	54.4	65.0	67.2	26	83	263	832	2631
9	Second Street West	West Napa Street	(North of West Napa	53.8	45.5	56.2	58.4	3	11	34	108	343
10	Second Street West	West Napa Street	(South of West Nap	57.9	49.6	60.2	62.5	9	28	88	278	879
11	West Napa Street (SR 12)	Second Street We	East of Second Str	60.8	52.6	63.2	65.4	17	55	174	551	1742
12	West Napa Street (SR 12)	Second Street We	West of Second St	61.4	53.2	63.8	66.0	20	63	200	631	1997
13	First Street West	West Napa Street	(North of West Napa	55.0	46.7	57.4	59.6	5	14	45	143	452
14	First Street West	West Napa Street	(South of West Nap	51.9	43.7	54.3	56.5	2	7	22	71	224
15	West Napa Street (SR 12)	First Street West	East of First Street	60.7	52.5	63.1	65.3	17	54	171	539	1705
16	West Napa Street (SR 12)	First Street West	West of First Stree	60.6	52.3	62.9	65.2	16	52	164	519	1640
17	Broadway (SR 12)	Napa Street	North of Napa Stre	51.3	43.1	53.7	55.9	2	6	20	62	196
18	Broadway (SR 12)	Napa Street	South of Napa Stre	63.4	53.2	61.4	65.8	19	60	189	596	1886
19	Napa Street	Broadway (SR 12)	East of Broadway (	58.7	50.5	61.1	63.3	11	34	108	341	1079
20	Napa Street	Broadway (SR 12)	West of Broadway	60.9	52.7	63.3	65.5	18	56	178	563	1779
21	First Street East	East Napa Street	North of East Napa	55.7	47.4	58.1	60.3	5	17	53	169	535
22	First Street East	East Napa Street	South of East Napa	50.9	42.7	53.3	55.5	2	6	18	56	178
23	East Napa Street	First Street East	East of First Street	57.5	49.3	59.9	62.1	8	26	81	258	815
24	East Napa Street	First Street East	West of First Stree	58.6	50.3	61.0	63.2	10	33	104	329	1040

Table x.xx-xx. Traffic Noise—Future Condition and Future plus Project Condition

Roadway	Roadway Segment
First Street West	From West Spain Street to North of West Spain Street
First Street West	From West Spain Street to South of West Spain Street
West Spain Street	From First Street West to East of First Street West
West Spain Street	From First Street West to West of First Street West
Fifth Street West	From West Napa Street (SR 12) to North of West Napa Street (SR 12)
Fifth Street West	From West Napa Street (SR 12) to South of West Napa Street (SR 12)
West Napa Street (SR 12)	From Fifth Street West to East of Fifth Street West
West Napa Street (SR 12)	From Fifth Street West to West of Fifth Street West
Second Street West	From West Napa Street (SR 12) to North of West Napa Street (SR 12)
Second Street West	From West Napa Street (SR 12) to South of West Napa Street (SR 12)
West Napa Street (SR 12)	From Second Street West to East of Second Street West
West Napa Street (SR 12)	From Second Street West to West of Second Street West
First Street West	From West Napa Street (SR 12) to North of West Napa Street (SR 12)
First Street West	From West Napa Street (SR 12) to South of West Napa Street (SR 12)
West Napa Street (SR 12)	From First Street West to East of First Street West
West Napa Street (SR 12)	From First Street West to West of First Street West
Broadway (SR 12)	From Napa Street to North of Napa Street
Broadway (SR 12)	From Napa Street to South of Napa Street
Napa Street	From Broadway (SR 12) to East of Broadway (SR 12)
Napa Street	From Broadway (SR 12) to West of Broadway (SR 12)
First Street East	From East Napa Street to North of East Napa Street
First Street East	From East Napa Street to South of East Napa Street
East Napa Street	From First Street East to East of First Street East
East Napa Street	From First Street East to West of First Street East

Notes: dB = A-weighted
decibels; L_{dn} = day-night noise
Source: Modeling conducted
by AECOM in 2022

dB, L _{dn} at 50 feet Weekday PM Future	Distance (Feet) to 70 dB	Distance (Feet) to 65 dB	Distance (Feet) to 60 dB	dB, L _{dn} at 50 feet Weekday PM F+P	Plus Project Increase, dB	Distance (Feet) to 70 dB	Distance (Feet) to 65 dB	Distance (Feet) to 60 dB
60.2	5	17	52	60.2	0.0	5	17	52
59.3	4	13	43	59.3	0.0	4	14	43
63.2	11	33	105	63.3	0.0	11	33	106
63.8	12	38	121	63.9	0.0	12	38	122
63.4	11	35	110	63.4	0.0	11	35	110
65.2	16	52	165	65.2	0.0	16	52	165
66.2	21	67	211	66.3	0.0	21	67	212
67.2	26	83	262	67.2	0.0	26	83	263
58.3	3	11	34	58.4	0.0	3	11	34
62.4	9	28	88	62.5	0.0	9	28	88
65.4	17	55	172	65.4	0.0	17	55	174
66.0	20	63	199	66.0	0.0	20	63	200
59.6	5	14	45	59.6	0.0	5	14	45
55.9	2	6	19	56.5	0.6	2	7	22
65.2	17	53	167	65.3	0.1	17	54	171
65.1	16	51	160	65.2	0.1	16	52	164
55.9	2	6	20	55.9	0.0	2	6	20
65.7	19	59	186	65.8	0.1	19	60	189
63.3	11	34	107	63.3	0.0	11	34	108
65.4	18	55	175	65.5	0.1	18	56	178
60.3	5	17	53	60.3	0.0	5	17	53
55.5	2	6	18	55.5	0.0	2	6	18
62.1	8	25	80	62.1	0.1	8	26	81
63.1	10	32	103	63.2	0.1	10	33	104

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : Hotel Sonoma EIR
Project Number : 60660194
Modeling Condition : Weekend PM Future
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn

K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	First Street West	West Spain Street	North of West Spain Street	4910	25	50	97	1	2	87	0	13	
2	First Street West	West Spain Street	South of West Spain Street	4360	25	50	97	1	2	87	0	13	
3	West Spain Street	First Street West	East of First Street West	7070	25	50	97	1	2	87	0	13	
4	West Spain Street	First Street West	West of First Street West	7740	25	50	97	1	2	87	0	13	
5	Fifth Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	7250	25	50	97	1	2	87	0	13	
6	Fifth Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	12680	25	50	97	1	2	87	0	13	
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street West	12470	25	50	97	1	2	87	0	13	
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Street West	17520	25	50	97	1	2	87	0	13	
9	Second Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	2830	25	50	97	1	2	87	0	13	
10	Second Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	6130	25	50	97	1	2	87	0	13	
11	West Napa Street (SR 12)	Second Street West	East of Second Street West	11400	25	50	97	1	2	87	0	13	
12	West Napa Street (SR 12)	Second Street West	West of Second Street West	12320	25	50	97	1	2	87	0	13	
13	First Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	4060	25	50	97	1	2	87	0	13	
14	First Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	1270	25	50	97	1	2	87	0	13	
15	West Napa Street (SR 12)	First Street West	East of First Street West	11680	25	50	97	1	2	87	0	13	
16	West Napa Street (SR 12)	First Street West	West of First Street West	12070	25	50	97	1	2	87	0	13	
17	Broadway (SR 12)	Napa Street	North of Napa Street	460	25	50	97	1	2	87	0	13	
18	Broadway (SR 12)	Napa Street	South of Napa Street	9050	35	50	97	1	2	87	0	13	
19	Napa Street	Broadway (SR 12)	East of Broadway (SR 12)	8480	25	50	97	1	2	87	0	13	
20	Napa Street	Broadway (SR 12)	West of Broadway (SR 12)	11510	25	50	97	1	2	87	0	13	
21	First Street East	East Napa Street	North of East Napa Street	4810	25	50	97	1	2	87	0	13	
22	First Street East	East Napa Street	South of East Napa Street	1050	25	50	97	1	2	87	0	13	
23	East Napa Street	First Street East	East of First Street East	5480	25	50	97	1	2	87	0	13	
24	East Napa Street	First Street East	West of First Street East	8060	25	50	97	1	2	87	0	13	

0

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : Hotel Sonoma EIR
Project Number : 60660194

Modeling Condition : Weekend PM Future

Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	First Street West	West Spain Street	North of West Spai	56.4	48.2	58.8	61.0	6	20	63	200	633
2	First Street West	West Spain Street	South of West Spa	55.9	47.7	58.3	60.5	6	18	56	178	562
3	West Spain Street	First Street West	East of First Street	58.0	49.8	60.4	62.6	9	29	91	288	911
4	West Spain Street	First Street West	West of First Stree	58.4	50.2	60.8	63.0	10	32	100	316	998
5	Fifth Street West	West Napa Street	(North of West Napa	58.1	49.9	60.5	62.7	9	30	93	296	935
6	Fifth Street West	West Napa Street	(South of West Nap	60.5	52.3	62.9	65.1	16	52	163	517	1635
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street	60.5	52.2	62.9	65.1	16	51	161	508	1607
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Stree	61.9	53.7	64.3	66.5	23	71	226	714	2258
9	Second Street West	West Napa Street	(North of West Napa	54.0	45.8	56.4	58.6	4	12	36	115	365
10	Second Street West	West Napa Street	(South of West Nap	57.4	49.1	59.8	62.0	8	25	79	250	790
11	West Napa Street (SR 12)	Second Street We	East of Second Str	60.1	51.8	62.5	64.7	15	46	147	465	1470
12	West Napa Street (SR 12)	Second Street We	West of Second St	60.4	52.2	62.8	65.0	16	50	159	502	1588
13	First Street West	West Napa Street	(North of West Napa	55.6	47.3	58.0	60.2	5	17	52	166	523
14	First Street West	West Napa Street	(South of West Nap	50.6	42.3	52.9	55.2	2	5	16	52	164
15	West Napa Street (SR 12)	First Street West	East of First Street	60.2	51.9	62.6	64.8	15	48	151	476	1506
16	West Napa Street (SR 12)	First Street West	West of First Stree	60.3	52.1	62.7	64.9	16	49	156	492	1556
17	Broadway (SR 12)	Napa Street	North of Napa Stre	46.1	37.9	48.5	50.7	1	2	6	19	59
18	Broadway (SR 12)	Napa Street	South of Napa Stre	63.3	53.1	61.3	65.7	18	58	185	583	1845
19	Napa Street	Broadway (SR 12)	East of Broadway (	58.8	50.5	61.2	63.4	11	35	109	346	1093
20	Napa Street	Broadway (SR 12)	West of Broadway	60.1	51.9	62.5	64.7	15	47	148	469	1484
21	First Street East	East Napa Street	North of East Napa	56.3	48.1	58.7	60.9	6	20	62	196	620
22	First Street East	East Napa Street	South of East Napa	49.7	41.5	52.1	54.3	1	4	14	43	135
23	East Napa Street	First Street East	East of First Street	56.9	48.7	59.3	61.5	7	22	71	223	706
24	East Napa Street	First Street East	West of First Stree	58.6	50.3	61.0	63.2	10	33	104	329	1039

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : Hotel Sonoma EIR
Project Number : 60660194
Modeling Condition : Weekend PM F+P
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn

K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	First Street West	West Spain Street	North of West Spain Street	4910	25	50	97	1	2	87	0	13	
2	First Street West	West Spain Street	South of West Spain Street	4370	25	50	97	1	2	87	0	13	
3	West Spain Street	First Street West	East of First Street West	7090	25	50	97	1	2	87	0	13	
4	West Spain Street	First Street West	West of First Street West	7770	25	50	97	1	2	87	0	13	
5	Fifth Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	7250	25	50	97	1	2	87	0	13	
6	Fifth Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	12690	25	50	97	1	2	87	0	13	
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street West	12510	25	50	97	1	2	87	0	13	
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Street West	17570	25	50	97	1	2	87	0	13	
9	Second Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	2870	25	50	97	1	2	87	0	13	
10	Second Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	6160	25	50	97	1	2	87	0	13	
11	West Napa Street (SR 12)	Second Street West	East of Second Street West	11510	25	50	97	1	2	87	0	13	
12	West Napa Street (SR 12)	Second Street West	West of Second Street West	12360	25	50	97	1	2	87	0	13	
13	First Street West	West Napa Street (SR 12)	North of West Napa Street (SR 12)	4070	25	50	97	1	2	87	0	13	
14	First Street West	West Napa Street (SR 12)	South of West Napa Street (SR 12)	1530	25	50	97	1	2	87	0	13	
15	West Napa Street (SR 12)	First Street West	East of First Street West	12030	25	50	97	1	2	87	0	13	
16	West Napa Street (SR 12)	First Street West	West of First Street West	12370	25	50	97	1	2	87	0	13	
17	Broadway (SR 12)	Napa Street	North of Napa Street	460	25	50	97	1	2	87	0	13	
18	Broadway (SR 12)	Napa Street	South of Napa Street	9190	35	50	97	1	2	87	0	13	
19	Napa Street	Broadway (SR 12)	East of Broadway (SR 12)	8590	25	50	97	1	2	87	0	13	
20	Napa Street	Broadway (SR 12)	West of Broadway (SR 12)	11760	25	50	97	1	2	87	0	13	
21	First Street East	East Napa Street	North of East Napa Street	4830	25	50	97	1	2	87	0	13	
22	First Street East	East Napa Street	South of East Napa Street	1050	25	50	97	1	2	87	0	13	
23	East Napa Street	First Street East	East of First Street East	5590	25	50	97	1	2	87	0	13	
24	East Napa Street	First Street East	West of First Street East	8190	25	50	97	1	2	87	0	13	

0

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : Hotel Sonoma EIR
Project Number : 60660194

Modeling Condition : Weekend PM F+P

Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	First Street West	West Spain Street	North of West Spai	56.4	48.2	58.8	61.0	6	20	63	200	633
2	First Street West	West Spain Street	South of West Spa	55.9	47.7	58.3	60.5	6	18	56	178	563
3	West Spain Street	First Street West	East of First Street	58.0	49.8	60.4	62.6	9	29	91	289	914
4	West Spain Street	First Street West	West of First Stree	58.4	50.2	60.8	63.0	10	32	100	317	1002
5	Fifth Street West	West Napa Street	(North of West Napa	58.1	49.9	60.5	62.7	9	30	93	296	935
6	Fifth Street West	West Napa Street	(South of West Nap	60.5	52.3	62.9	65.1	16	52	164	517	1636
7	West Napa Street (SR 12)	Fifth Street West	East of Fifth Street	60.5	52.2	62.9	65.1	16	51	161	510	1613
8	West Napa Street (SR 12)	Fifth Street West	West of Fifth Stree	62.0	53.7	64.4	66.6	23	72	226	716	2265
9	Second Street West	West Napa Street	(North of West Napa	54.1	45.8	56.5	58.7	4	12	37	117	370
10	Second Street West	West Napa Street	(South of West Nap	57.4	49.2	59.8	62.0	8	25	79	251	794
11	West Napa Street (SR 12)	Second Street We	East of Second Str	60.1	51.9	62.5	64.7	15	47	148	469	1484
12	West Napa Street (SR 12)	Second Street We	West of Second St	60.4	52.2	62.8	65.0	16	50	159	504	1593
13	First Street West	West Napa Street	(North of West Napa	55.6	47.4	58.0	60.2	5	17	52	166	525
14	First Street West	West Napa Street	(South of West Nap	51.4	43.1	53.8	56.0	2	6	20	62	197
15	West Napa Street (SR 12)	First Street West	East of First Street	60.3	52.1	62.7	64.9	16	49	155	490	1551
16	West Napa Street (SR 12)	First Street West	West of First Stree	60.4	52.2	62.8	65.0	16	50	159	504	1595
17	Broadway (SR 12)	Napa Street	North of Napa Stre	46.1	37.9	48.5	50.7	1	2	6	19	59
18	Broadway (SR 12)	Napa Street	South of Napa Stre	63.4	53.2	61.4	65.7	19	59	187	592	1874
19	Napa Street	Broadway (SR 12)	East of Broadway (	58.9	50.6	61.2	63.5	11	35	111	350	1107
20	Napa Street	Broadway (SR 12)	West of Broadway	60.2	52.0	62.6	64.8	15	48	152	479	1516
21	First Street East	East Napa Street	North of East Napa	56.4	48.1	58.7	61.0	6	20	62	197	623
22	First Street East	East Napa Street	South of East Napa	49.7	41.5	52.1	54.3	1	4	14	43	135
23	East Napa Street	First Street East	East of First Street	57.0	48.7	59.4	61.6	7	23	72	228	721
24	East Napa Street	First Street East	West of First Stree	58.6	50.4	61.0	63.2	11	33	106	334	1056

Table x.xx-xx. Traffic Noise—Future Condition and Future plus Project Condition

Roadway	Roadway Segment
First Street West	From West Spain Street to North of West Spain Street
First Street West	From West Spain Street to South of West Spain Street
West Spain Street	From First Street West to East of First Street West
West Spain Street	From First Street West to West of First Street West
Fifth Street West	From West Napa Street (SR 12) to North of West Napa Street (SR 12)
Fifth Street West	From West Napa Street (SR 12) to South of West Napa Street (SR 12)
West Napa Street (SR 12)	From Fifth Street West to East of Fifth Street West
West Napa Street (SR 12)	From Fifth Street West to West of Fifth Street West
Second Street West	From West Napa Street (SR 12) to North of West Napa Street (SR 12)
Second Street West	From West Napa Street (SR 12) to South of West Napa Street (SR 12)
West Napa Street (SR 12)	From Second Street West to East of Second Street West
West Napa Street (SR 12)	From Second Street West to West of Second Street West
First Street West	From West Napa Street (SR 12) to North of West Napa Street (SR 12)
First Street West	From West Napa Street (SR 12) to South of West Napa Street (SR 12)
West Napa Street (SR 12)	From First Street West to East of First Street West
West Napa Street (SR 12)	From First Street West to West of First Street West
Broadway (SR 12)	From Napa Street to North of Napa Street
Broadway (SR 12)	From Napa Street to South of Napa Street
Napa Street	From Broadway (SR 12) to East of Broadway (SR 12)
Napa Street	From Broadway (SR 12) to West of Broadway (SR 12)
First Street East	From East Napa Street to North of East Napa Street
First Street East	From East Napa Street to South of East Napa Street
East Napa Street	From First Street East to East of First Street East
East Napa Street	From First Street East to West of First Street East

Notes: dB = A-weighted
decibels; L_{dn} = day-night noise
Source: Modeling conducted
by AECOM in 2022

dB, L _{dn} at 50 feet Weekend PM Future	Distance (Feet) to 70 dB	Distance (Feet) to 65 dB	Distance (Feet) to 60 dB	dB, L _{dn} at 50 feet Weekend PM F+P	Plus Project Increase, dB	Distance (Feet) to 70 dB	Distance (Feet) to 65 dB	Distance (Feet) to 60 dB
61.0	6	20	63	61.0	0.0	6	20	63
60.5	6	18	56	60.5	0.0	6	18	56
62.6	9	29	91	62.6	0.0	9	29	91
63.0	10	32	100	63.0	0.0	10	32	100
62.7	9	30	93	62.7	0.0	9	30	93
65.1	16	52	163	65.1	0.0	16	52	164
65.1	16	51	161	65.1	0.0	16	51	161
66.5	23	71	226	66.6	0.0	23	72	226
58.6	4	12	36	58.7	0.1	4	12	37
62.0	8	25	79	62.0	0.0	8	25	79
64.7	15	46	147	64.7	0.0	15	47	148
65.0	16	50	159	65.0	0.0	16	50	159
60.2	5	17	52	60.2	0.0	5	17	52
55.2	2	5	16	56.0	0.8	2	6	20
64.8	15	48	151	64.9	0.1	16	49	155
64.9	16	49	156	65.0	0.1	16	50	159
50.7	1	2	6	50.7	0.0	1	2	6
65.7	18	58	185	65.7	0.1	19	59	187
63.4	11	35	109	63.5	0.1	11	35	111
64.7	15	47	148	64.8	0.1	15	48	152
60.9	6	20	62	61.0	0.0	6	20	62
54.3	1	4	14	54.3	0.0	1	4	14
61.5	7	22	71	61.6	0.1	7	23	72
63.2	10	33	104	63.2	0.1	11	33	106

Packaged HVAC Noise Prediction Model
Hotel Sonoma EIR



Project Name : Hotel Sonoma EIR
Project Number : 60660194
Metric (L_{eq}, L_d): Leq
Cooling Capacity / 1,000SqFt: 1.2

ID	Building Description	Square footage	Cooling Capacity,		Shielding Offset	L _w	Distance to Receiver
			Tons				
1	A	65,341	78.4092		-25	109.7	100
1	B/C	10,246	12.2952		-25	100.1	100

Combined Noise Level: 47

Source: Bolt Beranek and Newman Inc. (BBN). 1981. *Noise Control for Buildings and Manufacturing Plants*. Cambridge MA.

L_p @ Receiver

47

37

Project-Generated Parking Lot Noise Prediction Model
Hotel Sonoma EIR



Ref SEL: 71

Metric: Leq

Description	# of Stalls	Trip Multiplier	Trips /Period	Lp @ 50'	Distance to Rec.	Shielding Offset	Lp at Rec.
A	17	1	17	47.7	50		48
B/C	17	1	17	47.7	100		42