

# **APPENDIX E**

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Noise and Vibration



# Project-Generated Construction Source Noise Prediction Model

2025 L Street /2101 Capitol Avenue Mixed-Use Project



Location	Distance to Nearest Receiver in feet	Combined Predicted Noise Level (L <sub>eq</sub> dBA)	Assumptions:	Reference Emission	Usage Factor <sup>1</sup>
				Noise Levels (L <sub>max</sub> ) at 50 feet <sup>1</sup>	
Threshold*	198	75	Dump Truck	84	0.4
	50	87	Front End Loader	80	0.4
	30	91	Grader	85	0.4
	80	83	Auger Drill Rig	85	0.2
	120	79	Backhoe	80	0.4
	200	75	Excavator	85	0.4
	5	107			
	25	93	Ground Type	Hard	
	30	91	Ground Factor	0.00	
	100	81			
350	70				

Predicted Noise Level <sup>2</sup>	L <sub>eq</sub> dBA at 50 feet <sup>2</sup>
Dump Truck	80.0
Front End Loader	76.0
Grader	81.0
Auger Drill Rig	78.0
Backhoe	76.0
Excavator	81.0
<b>Combined Predicted Noise Level (L<sub>eq</sub> dBA at 50 feet)</b>	
87.0	

Sources:

<sup>1</sup> Obtained from the FHWA Roadway Construction Noise Model, January 2006.

<sup>2</sup> Based on the following from the Federal Transit Noise and Vibration Impact Assessment, 2006.

$$L_{eq}(\text{equip}) = E.L. + 10 \cdot \log(U.F.) - 20 \cdot \log(D/50) - 10 \cdot G \cdot \log(D/50)$$

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects; and

D = Distance from source to receiver.

\*Project specific threshold

# Project-Generated Construction Source Noise Prediction Model

2025 L Street /2101 Capitol Avenue Mixed-Use Project



Location	Distance to Nearest Receiver in feet	Combined Predicted Noise Level (L <sub>eq</sub> dBA)	Assumptions:	Reference Emission	Usage Factor <sup>1</sup>
				Noise Levels (L <sub>max</sub> ) at 50 feet <sup>1</sup>	
Threshold*	358	75.0	Impact Pile Driver	95	0.2
	50	92.1	Vibratory Pile Driver	95	0.2
	30	96.5	Auger Drill Rig	85	0.2
	80	88.0	Dozer	85	0.4
	120	84.5	Dump Truck	84	0.4
	200	80.0	Jackhammer	85	0.2
	5	112.1			
	25	98.1	Ground Type	Hard	
	30	96.5	Ground Factor	0.00	
	100	86.1			
350					

Predicted Noise Level <sup>2</sup>	L <sub>eq</sub> dBA at 50 feet <sup>2</sup>
Impact Pile Driver	88.0
Vibratory Pile Driver	88.0
Auger Drill Rig	78.0
Dozer	81.0
Dump Truck	80.0
Jackhammer	78.0
<b>Combined Predicted Noise Level (L<sub>eq</sub> dBA at 50 feet)</b>	
92.1	

Sources:

<sup>1</sup> Obtained from the FHWA Roadway Construction Noise Model, January 2006.

<sup>2</sup> Based on the following from the Federal Transit Noise and Vibration Impact Assessment, 2006.

$$L_{eq}(\text{equip}) = E.L. + 10 \cdot \log(U.F.) - 20 \cdot \log(D/50) - 10 \cdot G \cdot \log(D/50)$$

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects; and

D = Distance from source to receiver.

\*Project specific threshold

**Existing Railroad Operation Noise Calculation**  
**Input Sheet**



<b>Individual Train Events</b>		
1	99	7.943E+09
2	99	7.943E+09
3	99	7.943E+09
4	99	7.943E+09
5	99	7.943E+09
6	99	7.943E+09
7	99	7.943E+09
8	99	7.943E+09
9	99	7.943E+09

**Project:** 2025 L Street and 2101 Capitol Avenue Mixed-Used Project  
**Date:** Jan-15

<b>Number of Events</b>	<b>Average SEL</b>	<b>Reference Distance</b>
9	99 dBA	50 feet

<b># Trains / day</b>	<b>9</b>
Neq	39.4
Ldn	65.6 dBA
<b>Ref. Distance</b>	<b>50 feet</b>

60 dB Contour	117 feet
65 dB Contour	54 feet
70 dB Contour	25 feet

**Future Railroad Operation Noise Calculation**  
**Input Sheet**



<b>Individual Train Events</b>		
1	99	7.943E+09
2	99	7.943E+09
3	99	7.943E+09
4	99	7.943E+09
5	99	7.943E+09
6	99	7.943E+09
7	99	7.943E+09
8	99	7.943E+09
9	99	7.943E+09
10	99	7.943E+09
11	99	7.943E+09
12	99	7.943E+09
13	99	7.943E+09
14	99	7.943E+09
15	99	7.943E+09
16	99	7.943E+09
17	99	7.943E+09
18	99	7.943E+09

**Project:** 2025 L Street and 2101 Capitol Avenue Mixed-Used Project  
**Date:** Jan-15

<b>Number of Events</b>	<b>Average SEL</b>	<b>Reference Distance</b>
18	99 dBA	50 feet

<b># Trains / day</b>	<b>18</b>
Neq	78.8
Ldn	68.6 dBA
<b>Ref. Distance</b>	<b>50 feet</b>

60 dB Contour	186 feet
65 dB Contour	86 feet
70 dB Contour	40 feet

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

### Model Input Sheet

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Existing (1)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Leq

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

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	19 Street	Improv Alley	J Street	578	30	50	97	2	1	87	0	13	
2	19 Street	J Street	Jazz Alley	649	30	50	97	2	1	87	0	13	
3	19 Street	K-L Alley (Kayak)	L Street	784	30	50	97	2	1	87	0	13	
4	19 Street	L Street	Liestal Alley	905	30	50	97	2	1	87	0	13	
5	20 Street	Improv Alley	J Street	238	30	50	97	2	1	87	0	13	
6	20 Street	J Street	Jazz Alley	184	30	50	97	2	1	87	0	13	
7	20 Street	Jazz Alley	K Street	192	30	50	97	2	1	87	0	13	
8	20 Street	K Street	K-L Alley (Kayak)	199	30	50	97	2	1	87	0	13	
9	20 Street	K-L Alley (Kayak)	L Street	213	30	50	97	2	1	87	0	13	
10	20 Street	L Street	Liestal Alley	188	30	50	97	2	1	87	0	13	
11	20 Street	Liestal Alley	Capitol Avenue	188	30	50	97	2	1	87	0	13	
12	20 Street	Capitol Avenue	Matsui Alley	184	30	50	97	2	1	87	0	13	
13	20 Street	Matsui Alley	N Street	173	30	50	97	2	1	87	0	13	
14	20 Street	N Street	Neighbours Alley	160	30	50	97	2	1	87	0	13	
15	21 Street	Improv Alley	J Street	975	30	50	97	2	1	87	0	13	
16	21 Street	J Street	Jazz Alley	1164	30	50	97	2	1	87	0	13	
17	21 Street	Jazz Alley	K Street	1164	30	50	97	2	1	87	0	13	
18	21 Street	K Street	K-L Alley (Kayak)	1155	30	50	97	2	1	87	0	13	
19	21 Street	K-L Alley (Kayak)	L Street	1145	30	50	97	2	1	87	0	13	
20	21 Street	L Street	Liestal Alley	1248	30	50	97	2	1	87	0	13	
21	21 Street	Liestal Alley	Capitol Avenue	1234	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing (1)

**Metric (Leq, Ldn, CNEL) :** Leq

Segment	Roadway	Segment		Noise Levels, dB Leq				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	19 Street	Improv Alley	J Street	59.8	53.6	57.7	62.5	9	28	89	281	890
2	19 Street	J Street	Jazz Alley	60.4	54.1	58.2	63.0	10	32	100	316	999
3	19 Street	K-L Alley (Kayak)	L Street	61.2	54.9	59.0	63.8	12	38	121	382	1207
4	19 Street	L Street	Liestal Alley	61.8	55.5	59.6	64.4	14	44	139	441	1393
5	20 Street	Improv Alley	J Street	56.0	49.7	53.8	58.6	4	12	37	116	366
6	20 Street	J Street	Jazz Alley	54.9	48.6	52.7	57.5	3	9	28	90	283
7	20 Street	Jazz Alley	K Street	55.1	48.8	52.9	57.7	3	9	30	93	296
8	20 Street	K Street	K-L Alley (Kayak)	55.2	48.9	53.0	57.9	3	10	31	97	306
9	20 Street	K-L Alley (Kayak)	L Street	55.5	49.2	53.3	58.2	3	10	33	104	328
10	20 Street	L Street	Liestal Alley	55.0	48.7	52.8	57.6	3	9	29	92	289
11	20 Street	Liestal Alley	Capitol Avenue	55.0	48.7	52.8	57.6	3	9	29	92	289
12	20 Street	Capitol Avenue	Matsui Alley	54.9	48.6	52.7	57.5	3	9	28	90	283
13	20 Street	Matsui Alley	N Street	54.6	48.3	52.4	57.3	3	8	27	84	266
14	20 Street	N Street	Neighbours Alley	54.3	48.0	52.1	56.9	2	8	25	78	246
15	21 Street	Improv Alley	J Street	62.1	55.8	60.0	64.8	15	47	150	475	1501
16	21 Street	J Street	Jazz Alley	62.9	56.6	60.7	65.5	18	57	179	567	1792
17	21 Street	Jazz Alley	K Street	62.9	56.6	60.7	65.5	18	57	179	567	1792
18	21 Street	K Street	K-L Alley (Kayak)	62.9	56.6	60.7	65.5	18	56	178	562	1778
19	21 Street	K-L Alley (Kayak)	L Street	62.8	56.5	60.6	65.5	18	56	176	557	1762
20	21 Street	L Street	Liestal Alley	63.2	56.9	61.0	65.8	19	61	192	607	1921
21	21 Street	Liestal Alley	Capitol Avenue	63.1	56.9	61.0	65.8	19	60	190	601	1899



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

### Model Input Sheet

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Existing (2)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Leq

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

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	21 Street	Capitol Avenue	Matsui Alley	1319	30	50	97	2	1	87	0	13	
2	22 Street	K-L Alley (Kayak)	L Street	157	30	50	97	2	1	87	0	13	
3	22 Street	L Street	Liestal Alley	128	30	50	97	2	1	87	0	13	
4	22 Street	Liestal Alley	Capitol Avenue	142	30	50	97	2	1	87	0	13	
5	22 Street	Capitol Avenue	Matsui Alley	81	30	50	97	2	1	87	0	13	
6	22 Street	Matsui Alley	N Street	78	30	50	97	2	1	87	0	13	
7	22 Street	N Street	Neighbours Alley	73	30	50	97	2	1	87	0	13	
8	24 Street	Jazz Alley	K Street	243	30	50	97	2	1	87	0	13	
9	24 Street	K Street	K-L Alley (Kayak)	265	30	50	97	2	1	87	0	13	
10	24 Street	K-L Alley (Kayak)	L Street	263	30	50	97	2	1	87	0	13	
11	24 Street	L Street	Liestal Alley	242	30	50	97	2	1	87	0	13	
12	28 Street	L Street	Capitol Avenue	326	30	50	97	2	1	87	0	13	
13	28 Street	Capitol Avenue	Matsui Alley	358	30	50	97	2	1	87	0	13	
14	29 Street	Improv Alley	J Street	351	30	50	97	2	1	87	0	13	
15	29 Street	J Street	Jazz Alley	1010	30	50	97	2	1	87	0	13	
16	29 Street	Capitol Avenue	N Street	1387	30	50	97	2	1	87	0	13	
17	29 Street	N Street	Neighbours Alley	1038	30	50	97	2	1	87	0	13	
18	30 Street	Improv Alley	J Street	1476	30	50	97	2	1	87	0	13	
19	30 Street	J Street	Jazz Alley	1031	30	50	97	2	1	87	0	13	
20	30 Street	K-L Alley (Kayak)	L Street	1220	30	50	97	2	1	87	0	13	
21	30 Street	L Street	Liestal Alley	1331	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing (2)

**Metric (Leq, Ldn, CNEL) :** Leq

Segment	Roadway	Segment		Noise Levels, dB Leq				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	21 Street	Capitol Avenue	Matsui Alley	63.4	57.1	61.3	66.1	20	64	203	642	2030
2	22 Street	K-L Alley (Kayak)	L Street	54.2	47.9	52.0	56.8	2	8	24	76	242
3	22 Street	L Street	Liestal Alley	53.3	47.0	51.1	56.0	2	6	20	62	197
4	22 Street	Liestal Alley	Capitol Avenue	53.8	47.5	51.6	56.4	2	7	22	69	219
5	22 Street	Capitol Avenue	Matsui Alley	51.3	45.0	49.1	54.0	1	4	12	39	125
6	22 Street	Matsui Alley	N Street	51.2	44.9	49.0	53.8	1	4	12	38	120
7	22 Street	N Street	Neighbours Alley	50.9	44.6	48.7	53.5	1	4	11	36	112
8	24 Street	Jazz Alley	K Street	56.1	49.8	53.9	58.7	4	12	37	118	374
9	24 Street	K Street	K-L Alley (Kayak)	56.5	50.2	54.3	59.1	4	13	41	129	408
10	24 Street	K-L Alley (Kayak)	L Street	56.4	50.1	54.3	59.1	4	13	40	128	405
11	24 Street	L Street	Liestal Alley	56.1	49.8	53.9	58.7	4	12	37	118	372
12	28 Street	L Street	Capitol Avenue	57.4	51.1	55.2	60.0	5	16	50	159	502
13	28 Street	Capitol Avenue	Matsui Alley	57.8	51.5	55.6	60.4	6	17	55	174	551
14	29 Street	Improv Alley	J Street	57.7	51.4	55.5	60.3	5	17	54	171	540
15	29 Street	J Street	Jazz Alley	62.3	56.0	60.1	64.9	16	49	155	492	1555
16	29 Street	Capitol Avenue	N Street	63.7	57.4	61.5	66.3	21	68	213	675	2135
17	29 Street	N Street	Neighbours Alley	62.4	56.1	60.2	65.0	16	51	160	505	1598
18	30 Street	Improv Alley	J Street	63.9	57.6	61.8	66.6	23	72	227	718	2272
19	30 Street	J Street	Jazz Alley	62.4	56.1	60.2	65.0	16	50	159	502	1587
20	30 Street	K-L Alley (Kayak)	L Street	63.1	56.8	60.9	65.7	19	59	188	594	1878
21	30 Street	L Street	Liestal Alley	63.5	57.2	61.3	66.1	20	65	205	648	2049

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

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Existing (3)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Leq

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

Segment	Roadway	From	To	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
1	30 Street	Matsui Alley	N Street	999	30	50	97	2	1	87	0	13	
2	30 Street	N Street	Neighbours Alley	857	30	50	97	2	1	87	0	13	
3	J Street	18th Street	19th Street	1406	30	50	97	2	1	87	0	13	
4	J Street	19th Street	20th Street	1335	30	50	97	2	1	87	0	13	
5	J Street	20th Street	21st Street	1365	30	50	97	2	1	87	0	13	
6	J Street	21st Street	22nd Street	1554	30	50	97	2	1	87	0	13	
7	J Street	28th Street	29th Street	1409	30	50	97	2	1	87	0	13	
8	J Street	29th Street	30th Street	1309	30	50	97	2	1	87	0	13	
9	J Street	30th Street	Alhambra Boulevard	1191	30	50	97	2	1	87	0	13	
10	K Street	19th Street	20th Street	594	30	50	97	2	1	87	0	13	
11	K Street	20th Street	21st Street	620	30	50	97	2	1	87	0	13	
12	K Street	21st Street	22nd Street	698	30	50	97	2	1	87	0	13	
13	K Street	23rd Street	24th Street	715	30	50	97	2	1	87	0	13	
14	K Street	24th Street	25th Street	741	30	50	97	2	1	87	0	13	
15	K-L Alley	19th Street	20th Street	29	30	50	97	2	1	87	0	13	
16	K-L Alley	20th Street	21st Street	18	30	50	97	2	1	87	0	13	
17	K-L Alley	21st Street	22nd Street	18	30	50	97	2	1	87	0	13	
18	L Street	18th Street	19th Street	717	30	50	97	2	1	87	0	13	
19	L Street	19th Street	20th Street	775	30	50	97	2	1	87	0	13	
20	L Street	20th Street	21st Street	748	30	50	97	2	1	87	0	13	
21	L Street	21st Street	22nd Street	658	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing (3)

**Metric (Leq, Ldn, CNEL) :** Leq

Segment	Roadway	Segment		Noise Levels, dB Leq				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	30 Street	Matsui Alley	N Street	62.2	55.9	60.1	64.9	15	49	154	486	1538
2	30 Street	N Street	Neighbours Alley	61.6	55.3	59.4	64.2	13	42	132	417	1319
3	J Street	18th Street	19th Street	63.7	57.4	61.5	66.4	22	68	216	684	2164
4	J Street	19th Street	20th Street	63.5	57.2	61.3	66.1	21	65	205	650	2055
5	J Street	20th Street	21st Street	63.6	57.3	61.4	66.2	21	66	210	664	2101
6	J Street	21st Street	22nd Street	64.1	57.9	62.0	66.8	24	76	239	756	2392
7	J Street	28th Street	29th Street	63.7	57.4	61.5	66.4	22	69	217	686	2169
8	J Street	29th Street	30th Street	63.4	57.1	61.2	66.1	20	64	201	637	2015
9	J Street	30th Street	Alhambra Bouleva	63.0	56.7	60.8	65.6	18	58	183	580	1833
10	K Street	19th Street	20th Street	60.0	53.7	57.8	62.6	9	29	91	289	914
11	K Street	20th Street	21st Street	60.2	53.9	58.0	62.8	10	30	95	302	954
12	K Street	21st Street	22nd Street	60.7	54.4	58.5	63.3	11	34	107	340	1074
13	K Street	23rd Street	24th Street	60.8	54.5	58.6	63.4	11	35	110	348	1101
14	K Street	24th Street	25th Street	60.9	54.6	58.8	63.6	11	36	114	361	1141
15	K-L Alley	19th Street	20th Street	46.9	40.6	44.7	49.5	0	1	4	14	45
16	K-L Alley	20th Street	21st Street	44.8	38.5	42.6	47.4	0	1	3	9	28
17	K-L Alley	21st Street	22nd Street	44.8	38.5	42.6	47.4	0	1	3	9	28
18	L Street	18th Street	19th Street	60.8	54.5	58.6	63.4	11	35	110	349	1104
19	L Street	19th Street	20th Street	61.1	54.8	59.0	63.8	12	38	119	377	1193
20	L Street	20th Street	21st Street	61.0	54.7	58.8	63.6	12	36	115	364	1151
21	L Street	21st Street	22nd Street	60.4	54.1	58.2	63.1	10	32	101	320	1013

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

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Existing (4)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Leq

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

Segment	Roadway	From	To	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
1	L Street	22nd Street	23rd Street	602	30	50	97	2	1	87	0	13	
2	L Street	23rd Street	24th Street	651	30	50	97	2	1	87	0	13	
3	L Street	24th Street	25th Street	590	30	50	97	2	1	87	0	13	
4	L Street	29th Street	30th Street	557	30	50	97	2	1	87	0	13	
5	L Street	30th Street	Alhambra Boulevard	352	30	50	97	2	1	87	0	13	
6	L-Capitol Alley	20th Street	21st Street	48	30	50	97	2	1	87	0	13	
7	L-Capitol Alley	21st Street	22nd Street	46	30	50	97	2	1	87	0	13	
8	L-Capitol Alley	23rd Street	24th Street	20	30	50	97	2	1	87	0	13	
9	Capitol Avenue	19th Street	20th Street	600	30	50	97	2	1	87	0	13	
10	Capitol Avenue	20th Street	21st Street	612	30	50	97	2	1	87	0	13	
11	Capitol Avenue	21st Street	22nd Street	648	30	50	97	2	1	87	0	13	
12	Capitol Avenue	22nd Street	23rd Street	667	30	50	97	2	1	87	0	13	
13	Capitol Avenue	27th Street	28th Street	911	30	50	97	2	1	87	0	13	
14	Capitol Avenue	28th Street	29th Street	1064	30	50	97	2	1	87	0	13	
15	N Street	19th Street	20th Street	731	30	50	97	2	1	87	0	13	
16	N Street	20th Street	21st Street	715	30	50	97	2	1	87	0	13	
17	N Street	21st Street	22nd Street	648	30	50	97	2	1	87	0	13	
18	N Street	22nd Street	23rd Street	660	30	50	97	2	1	87	0	13	
19	N Street	28th Street	29th Street	919	30	50	97	2	1	87	0	13	
20	N Street	29th Street	30th Street	1676	30	50	97	2	1	87	0	13	
21	N Street	30th Street	Alhambra Boulevard	752	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing (4)

**Metric (Leq, Ldn, CNEL) :** Leq

Segment	Roadway	Segment		Noise Levels, dB Leq				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	L Street	22nd Street	23rd Street	60.0	53.7	57.9	62.7	9	29	93	293	927
2	L Street	23rd Street	24th Street	60.4	54.1	58.2	63.0	10	32	100	317	1002
3	L Street	24th Street	25th Street	59.9	53.7	57.8	62.6	9	29	91	287	908
4	L Street	29th Street	30th Street	59.7	53.4	57.5	62.3	9	27	86	271	857
5	L Street	30th Street	Alhambra Bouleva	57.7	51.4	55.5	60.3	5	17	54	171	542
6	L-Capitol Alley	20th Street	21st Street	49.0	42.8	46.9	51.7	1	2	7	23	74
7	L-Capitol Alley	21st Street	22nd Street	48.9	42.6	46.7	51.5	1	2	7	22	71
8	L-Capitol Alley	23rd Street	24th Street	45.2	39.0	43.1	47.9	0	1	3	10	31
9	Capitol Avenue	19th Street	20th Street	60.0	53.7	57.8	62.7	9	29	92	292	924
10	Capitol Avenue	20th Street	21st Street	60.1	53.8	57.9	62.8	9	30	94	298	942
11	Capitol Avenue	21st Street	22nd Street	60.3	54.1	58.2	63.0	10	32	100	315	997
12	Capitol Avenue	22nd Street	23rd Street	60.5	54.2	58.3	63.1	10	32	103	325	1027
13	Capitol Avenue	27th Street	28th Street	61.8	55.5	59.7	64.5	14	44	140	443	1402
14	Capitol Avenue	28th Street	29th Street	62.5	56.2	60.3	65.2	16	52	164	518	1638
15	N Street	19th Street	20th Street	60.9	54.6	58.7	63.5	11	36	113	356	1125
16	N Street	20th Street	21st Street	60.8	54.5	58.6	63.4	11	35	110	348	1101
17	N Street	21st Street	22nd Street	60.3	54.1	58.2	63.0	10	32	100	315	997
18	N Street	22nd Street	23rd Street	60.4	54.1	58.3	63.1	10	32	102	321	1016
19	N Street	28th Street	29th Street	61.9	55.6	59.7	64.5	14	45	141	447	1415
20	N Street	29th Street	30th Street	64.5	58.2	62.3	67.1	26	82	258	816	2580
21	N Street	30th Street	Alhambra Bouleva	61.0	54.7	58.8	63.6	12	37	116	366	1158

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

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Existing+Construction Noise (1)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Leq

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

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	19 Street	Improv Alley	J Street	669	30	50	97	2	1	87	0	13	
2	19 Street	J Street	Jazz Alley	740	30	50	97	2	1	87	0	13	
3	19 Street	K-L Alley (Kayak)	L Street	875	30	50	97	2	1	87	0	13	
4	19 Street	L Street	Liestal Alley	996	30	50	97	2	1	87	0	13	
5	20 Street	Improv Alley	J Street	329	30	50	97	2	1	87	0	13	
6	20 Street	J Street	Jazz Alley	275	30	50	97	2	1	87	0	13	
7	20 Street	Jazz Alley	K Street	283	30	50	97	2	1	87	0	13	
8	20 Street	K Street	K-L Alley (Kayak)	290	30	50	97	2	1	87	0	13	
9	20 Street	K-L Alley (Kayak)	L Street	304	30	50	97	2	1	87	0	13	
10	20 Street	L Street	Liestal Alley	279	30	50	97	2	1	87	0	13	
11	20 Street	Liestal Alley	Capitol Avenue	279	30	50	97	2	1	87	0	13	
12	20 Street	Capitol Avenue	Matsui Alley	275	30	50	97	2	1	87	0	13	
13	20 Street	Matsui Alley	N Street	264	30	50	97	2	1	87	0	13	
14	20 Street	N Street	Neighbours Alley	251	30	50	97	2	1	87	0	13	
15	21 Street	Improv Alley	J Street	1066	30	50	97	2	1	87	0	13	
16	21 Street	J Street	Jazz Alley	1255	30	50	97	2	1	87	0	13	
17	21 Street	Jazz Alley	K Street	1255	30	50	97	2	1	87	0	13	
18	21 Street	K Street	K-L Alley (Kayak)	1246	30	50	97	2	1	87	0	13	
19	21 Street	K-L Alley (Kayak)	L Street	1236	30	50	97	2	1	87	0	13	
20	21 Street	L Street	Liestal Alley	1339	30	50	97	2	1	87	0	13	
21	21 Street	Liestal Alley	Capitol Avenue	1325	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing+Construction Noise (1)

**Metric (Leq, Ldn, CNEL) :** Leq

Segment	Roadway	Segment		Noise Levels, dB Leq				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	19 Street	Improv Alley	J Street	60.5	54.2	58.3	63.1	10	33	103	326	1030
2	19 Street	J Street	Jazz Alley	60.9	54.6	58.8	63.6	11	36	114	360	1139
3	19 Street	K-L Alley (Kayak)	L Street	61.6	55.4	59.5	64.3	13	43	135	426	1347
4	19 Street	L Street	Liestal Alley	62.2	55.9	60.0	64.9	15	48	153	485	1533
5	20 Street	Improv Alley	J Street	57.4	51.1	55.2	60.1	5	16	51	160	506
6	20 Street	J Street	Jazz Alley	56.6	50.3	54.5	59.3	4	13	42	134	423
7	20 Street	Jazz Alley	K Street	56.7	50.5	54.6	59.4	4	14	44	138	435
8	20 Street	K Street	K-L Alley (Kayak)	56.9	50.6	54.7	59.5	4	14	45	141	446
9	20 Street	K-L Alley (Kayak)	L Street	57.1	50.8	54.9	59.7	5	15	47	148	468
10	20 Street	L Street	Liestal Alley	56.7	50.4	54.5	59.3	4	14	43	136	429
11	20 Street	Liestal Alley	Capitol Avenue	56.7	50.4	54.5	59.3	4	14	43	136	429
12	20 Street	Capitol Avenue	Matsui Alley	56.6	50.3	54.5	59.3	4	13	42	134	423
13	20 Street	Matsui Alley	N Street	56.4	50.2	54.3	59.1	4	13	41	128	406
14	20 Street	N Street	Neighbours Alley	56.2	49.9	54.1	58.9	4	12	39	122	386
15	21 Street	Improv Alley	J Street	62.5	56.2	60.3	65.2	16	52	164	519	1641
16	21 Street	J Street	Jazz Alley	63.2	56.9	61.0	65.9	19	61	193	611	1932
17	21 Street	Jazz Alley	K Street	63.2	56.9	61.0	65.9	19	61	193	611	1932
18	21 Street	K Street	K-L Alley (Kayak)	63.2	56.9	61.0	65.8	19	61	192	606	1918
19	21 Street	K-L Alley (Kayak)	L Street	63.1	56.9	61.0	65.8	19	60	190	602	1902
20	21 Street	L Street	Liestal Alley	63.5	57.2	61.3	66.2	21	65	206	652	2061
21	21 Street	Liestal Alley	Capitol Avenue	63.5	57.2	61.3	66.1	20	64	204	645	2039



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

### Model Input Sheet

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Existing+Construction Noise (2)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Leq  
**K Factor :** NA  
**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	21 Street	Capitol Avenue	Matsui Alley	1410	30	50	97	2	1	87	0	13	
2	22 Street	K-L Alley (Kayak)	L Street	248	30	50	97	2	1	87	0	13	
3	22 Street	L Street	Liestal Alley	219	30	50	97	2	1	87	0	13	
4	22 Street	Liestal Alley	Capitol Avenue	233	30	50	97	2	1	87	0	13	
5	22 Street	Capitol Avenue	Matsui Alley	172	30	50	97	2	1	87	0	13	
6	22 Street	Matsui Alley	N Street	169	30	50	97	2	1	87	0	13	
7	22 Street	N Street	Neighbours Alley	164	30	50	97	2	1	87	0	13	
8	24 Street	Jazz Alley	K Street	334	30	50	97	2	1	87	0	13	
9	24 Street	K Street	K-L Alley (Kayak)	356	30	50	97	2	1	87	0	13	
10	24 Street	K-L Alley (Kayak)	L Street	354	30	50	97	2	1	87	0	13	
11	24 Street	L Street	Liestal Alley	333	30	50	97	2	1	87	0	13	
12	28 Street	L Street	Capitol Avenue	417	30	50	97	2	1	87	0	13	
13	28 Street	Capitol Avenue	Matsui Alley	449	30	50	97	2	1	87	0	13	
14	29 Street	Improv Alley	J Street	442	30	50	97	2	1	87	0	13	
15	29 Street	J Street	Jazz Alley	1101	30	50	97	2	1	87	0	13	
16	29 Street	Capitol Avenue	N Street	1478	30	50	97	2	1	87	0	13	
17	29 Street	N Street	Neighbours Alley	1129	30	50	97	2	1	87	0	13	
18	30 Street	Improv Alley	J Street	1567	30	50	97	2	1	87	0	13	
19	30 Street	J Street	Jazz Alley	1122	30	50	97	2	1	87	0	13	
20	30 Street	K-L Alley (Kayak)	L Street	1311	30	50	97	2	1	87	0	13	
21	30 Street	L Street	Liestal Alley	1422	30	50	97	2	1	87	0	13	

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**Traffic Noise Prediction Model, (FHWA RD-77-108)****Predicted Noise Levels****Project Name :** Whole Foods**Project Number :** 60334359**Modeling Condition :** Existing+Construction Noise (2)**Metric (Leq, Ldn, CNEL) :** Leq

Segment	Roadway	Segment		Noise Levels, dB Leq				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	21 Street	Capitol Avenue	Matsui Alley	63.7	57.4	61.6	66.4	22	69	217	686	2170
2	22 Street	K-L Alley (Kayak)	L Street	56.2	49.9	54.0	58.8	4	12	38	121	382
3	22 Street	L Street	Liestal Alley	55.6	49.3	53.5	58.3	3	11	34	107	337
4	22 Street	Liestal Alley	Capitol Avenue	55.9	49.6	53.7	58.6	4	11	36	113	359
5	22 Street	Capitol Avenue	Matsui Alley	54.6	48.3	52.4	57.2	3	8	26	84	265
6	22 Street	Matsui Alley	N Street	54.5	48.2	52.3	57.2	3	8	26	82	260
7	22 Street	N Street	Neighbours Alley	54.4	48.1	52.2	57.0	3	8	25	80	252
8	24 Street	Jazz Alley	K Street	57.5	51.2	55.3	60.1	5	16	51	163	514
9	24 Street	K Street	K-L Alley (Kayak)	57.7	51.5	55.6	60.4	5	17	55	173	548
10	24 Street	K-L Alley (Kayak)	L Street	57.7	51.4	55.5	60.4	5	17	54	172	545
11	24 Street	L Street	Liestal Alley	57.5	51.2	55.3	60.1	5	16	51	162	512
12	28 Street	L Street	Capitol Avenue	58.4	52.1	56.3	61.1	6	20	64	203	642
13	28 Street	Capitol Avenue	Matsui Alley	58.8	52.5	56.6	61.4	7	22	69	219	691
14	29 Street	Improv Alley	J Street	58.7	52.4	56.5	61.3	7	22	68	215	680
15	29 Street	J Street	Jazz Alley	62.6	56.4	60.5	65.3	17	54	169	536	1695
16	29 Street	Capitol Avenue	N Street	63.9	57.6	61.8	66.6	23	72	227	719	2275
17	29 Street	N Street	Neighbours Alley	62.8	56.5	60.6	65.4	17	55	174	550	1738
18	30 Street	Improv Alley	J Street	64.2	57.9	62.0	66.8	24	76	241	763	2412
19	30 Street	J Street	Jazz Alley	62.7	56.4	60.6	65.4	17	55	173	546	1727
20	30 Street	K-L Alley (Kayak)	L Street	63.4	57.1	61.2	66.1	20	64	202	638	2018
21	30 Street	L Street	Liestal Alley	63.8	57.5	61.6	66.4	22	69	219	692	2189

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

### Model Input Sheet

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing+Construction Noise (3)

**Ground Type :** Hard

**K Factor :** NA

**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Leq

**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	30 Street	Matsui Alley	N Street	1090	30	50	97	2	1	87	0	13	
2	30 Street	N Street	Neighbours Alley	948	30	50	97	2	1	87	0	13	
3	J Street	18th Street	19th Street	1497	30	50	97	2	1	87	0	13	
4	J Street	19th Street	20th Street	1426	30	50	97	2	1	87	0	13	
5	J Street	20th Street	21st Street	1456	30	50	97	2	1	87	0	13	
6	J Street	21st Street	22nd Street	1645	30	50	97	2	1	87	0	13	
7	J Street	28th Street	29th Street	1500	30	50	97	2	1	87	0	13	
8	J Street	29th Street	30th Street	1400	30	50	97	2	1	87	0	13	
9	J Street	30th Street	Alhambra Boulevard	1282	30	50	97	2	1	87	0	13	
10	K Street	19th Street	20th Street	685	30	50	97	2	1	87	0	13	
11	K Street	20th Street	21st Street	711	30	50	97	2	1	87	0	13	
12	K Street	21st Street	22nd Street	789	30	50	97	2	1	87	0	13	
13	K Street	23rd Street	24th Street	806	30	50	97	2	1	87	0	13	
14	K Street	24th Street	25th Street	832	30	50	97	2	1	87	0	13	
15	K-L Alley	19th Street	20th Street	120	30	50	97	2	1	87	0	13	
16	K-L Alley	20th Street	21st Street	109	30	50	97	2	1	87	0	13	
17	K-L Alley	21st Street	22nd Street	109	30	50	97	2	1	87	0	13	
18	L Street	18th Street	19th Street	808	30	50	97	2	1	87	0	13	
19	L Street	19th Street	20th Street	866	30	50	97	2	1	87	0	13	
20	L Street	20th Street	21st Street	839	30	50	97	2	1	87	0	13	
21	L Street	21st Street	22nd Street	749	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing+Construction Noise (3)

**Metric (Leq, Ldn, CNEL) :** Leq

Segment	Roadway	Segment		Noise Levels, dB Leq				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	30 Street	Matsui Alley	N Street	62.6	56.3	60.4	65.3	17	53	168	531	1678
2	30 Street	N Street	Neighbours Alley	62.0	55.7	59.8	64.7	15	46	146	461	1459
3	J Street	18th Street	19th Street	64.0	57.7	61.8	66.6	23	73	230	729	2304
4	J Street	19th Street	20th Street	63.8	57.5	61.6	66.4	22	69	219	694	2195
5	J Street	20th Street	21st Street	63.9	57.6	61.7	66.5	22	71	224	709	2241
6	J Street	21st Street	22nd Street	64.4	58.1	62.2	67.0	25	80	253	801	2532
7	J Street	28th Street	29th Street	64.0	57.7	61.8	66.6	23	73	231	730	2309
8	J Street	29th Street	30th Street	63.7	57.4	61.5	66.3	22	68	215	681	2155
9	J Street	30th Street	Alhambra Bouleva	63.3	57.0	61.1	66.0	20	62	197	624	1973
10	K Street	19th Street	20th Street	60.6	54.3	58.4	63.2	11	33	105	333	1054
11	K Street	20th Street	21st Street	60.7	54.5	58.6	63.4	11	35	109	346	1094
12	K Street	21st Street	22nd Street	61.2	54.9	59.0	63.9	12	38	121	384	1214
13	K Street	23rd Street	24th Street	61.3	55.0	59.1	63.9	12	39	124	392	1240
14	K Street	24th Street	25th Street	61.4	55.1	59.3	64.1	13	40	128	405	1281
15	K-L Alley	19th Street	20th Street	53.0	46.7	50.8	55.7	2	6	18	58	185
16	K-L Alley	20th Street	21st Street	52.6	46.3	50.4	55.3	2	5	17	53	168
17	K-L Alley	21st Street	22nd Street	52.6	46.3	50.4	55.3	2	5	17	53	168
18	L Street	18th Street	19th Street	61.3	55.0	59.1	64.0	12	39	124	393	1244
19	L Street	19th Street	20th Street	61.6	55.3	59.4	64.3	13	42	133	421	1333
20	L Street	20th Street	21st Street	61.5	55.2	59.3	64.1	13	41	129	408	1291
21	L Street	21st Street	22nd Street	61.0	54.7	58.8	63.6	12	36	115	365	1153

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

### Model Input Sheet

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Existing+Construction Noise (4)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Leq

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

Segment	Roadway	From	To	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
1	L Street	22nd Street	23rd Street	693	30	50	97	2	1	87	0	13	
2	L Street	23rd Street	24th Street	742	30	50	97	2	1	87	0	13	
3	L Street	24th Street	25th Street	681	30	50	97	2	1	87	0	13	
4	L Street	29th Street	30th Street	648	30	50	97	2	1	87	0	13	
5	L Street	30th Street	Alhambra Boulevard	443	30	50	97	2	1	87	0	13	
6	L-Capitol Alley	20th Street	21st Street	139	30	50	97	2	1	87	0	13	
7	L-Capitol Alley	21st Street	22nd Street	137	30	50	97	2	1	87	0	13	
8	L-Capitol Alley	23rd Street	24th Street	111	30	50	97	2	1	87	0	13	
9	Capitol Avenue	19th Street	20th Street	691	30	50	97	2	1	87	0	13	
10	Capitol Avenue	20th Street	21st Street	703	30	50	97	2	1	87	0	13	
11	Capitol Avenue	21st Street	22nd Street	739	30	50	97	2	1	87	0	13	
12	Capitol Avenue	22nd Street	23rd Street	758	30	50	97	2	1	87	0	13	
13	Capitol Avenue	27th Street	28th Street	1002	30	50	97	2	1	87	0	13	
14	Capitol Avenue	28th Street	29th Street	1155	30	50	97	2	1	87	0	13	
15	N Street	19th Street	20th Street	822	30	50	97	2	1	87	0	13	
16	N Street	20th Street	21st Street	806	30	50	97	2	1	87	0	13	
17	N Street	21st Street	22nd Street	739	30	50	97	2	1	87	0	13	
18	N Street	22nd Street	23rd Street	751	30	50	97	2	1	87	0	13	
19	N Street	28th Street	29th Street	1010	30	50	97	2	1	87	0	13	
20	N Street	29th Street	30th Street	1767	30	50	97	2	1	87	0	13	
21	N Street	30th Street	Alhambra Boulevard	843	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing+Construction Noise (4)

**Metric (Leq, Ldn, CNEL) :** Leq

Segment	Roadway	Segment		Noise Levels, dB Leq				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	L Street	22nd Street	23rd Street	60.6	54.4	58.5	63.3	11	34	107	337	1067
2	L Street	23rd Street	24th Street	60.9	54.7	58.8	63.6	11	36	114	361	1142
3	L Street	24th Street	25th Street	60.6	54.3	58.4	63.2	10	33	105	331	1048
4	L Street	29th Street	30th Street	60.3	54.1	58.2	63.0	10	32	100	315	997
5	L Street	30th Street	Alhambra Bouleva	58.7	52.4	56.5	61.3	7	22	68	216	682
6	L-Capitol Alley	20th Street	21st Street	53.7	47.4	51.5	56.3	2	7	21	68	214
7	L-Capitol Alley	21st Street	22nd Street	53.6	47.3	51.4	56.2	2	7	21	67	211
8	L-Capitol Alley	23rd Street	24th Street	52.7	46.4	50.5	55.3	2	5	17	54	171
9	Capitol Avenue	19th Street	20th Street	60.6	54.3	58.5	63.3	11	34	106	336	1063
10	Capitol Avenue	20th Street	21st Street	60.7	54.4	58.5	63.4	11	34	108	342	1082
11	Capitol Avenue	21st Street	22nd Street	60.9	54.6	58.7	63.6	11	36	114	360	1137
12	Capitol Avenue	22nd Street	23rd Street	61.0	54.7	58.9	63.7	12	37	117	369	1167
13	Capitol Avenue	27th Street	28th Street	62.2	56.0	60.1	64.9	15	49	154	488	1542
14	Capitol Avenue	28th Street	29th Street	62.9	56.6	60.7	65.5	18	56	178	562	1778
15	N Street	19th Street	20th Street	61.4	55.1	59.2	64.0	13	40	127	400	1265
16	N Street	20th Street	21st Street	61.3	55.0	59.1	63.9	12	39	124	392	1240
17	N Street	21st Street	22nd Street	60.9	54.6	58.7	63.6	11	36	114	360	1137
18	N Street	22nd Street	23rd Street	61.0	54.7	58.8	63.6	12	37	116	366	1156
19	N Street	28th Street	29th Street	62.3	56.0	60.1	64.9	16	49	155	492	1555
20	N Street	29th Street	30th Street	64.7	58.4	62.5	67.4	27	86	272	860	2720
21	N Street	30th Street	Alhambra Bouleva	61.5	55.2	59.3	64.1	13	41	130	410	1297

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

### Model Input Sheet

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing (5)

**Ground Type :** Hard

**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** 9.76

**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	19 Street	Improv Alley	J Street	578	30	50	97	2	1	87	0	13	
2	19 Street	J Street	Jazz Alley	649	30	50	97	2	1	87	0	13	
3	19 Street	K-L Alley (Kayak)	L Street	784	30	50	97	2	1	87	0	13	
4	19 Street	L Street	Liestal Alley	905	30	50	97	2	1	87	0	13	
5	20 Street	Improv Alley	J Street	238	30	50	97	2	1	87	0	13	
6	20 Street	J Street	Jazz Alley	184	30	50	97	2	1	87	0	13	
7	20 Street	Jazz Alley	K Street	192	30	50	97	2	1	87	0	13	
8	20 Street	K Street	K-L Alley (Kayak)	199	30	50	97	2	1	87	0	13	
9	20 Street	K-L Alley (Kayak)	L Street	213	30	50	97	2	1	87	0	13	
10	20 Street	L Street	Liestal Alley	188	30	50	97	2	1	87	0	13	
11	20 Street	Liestal Alley	Capitol Avenue	188	30	50	97	2	1	87	0	13	
12	20 Street	Capitol Avenue	Matsui Alley	184	30	50	97	2	1	87	0	13	
13	20 Street	Matsui Alley	N Street	173	30	50	97	2	1	87	0	13	
14	20 Street	N Street	Neighbours Alley	160	30	50	97	2	1	87	0	13	
15	21 Street	Improv Alley	J Street	975	30	50	97	2	1	87	0	13	
16	21 Street	J Street	Jazz Alley	1164	30	50	97	2	1	87	0	13	
17	21 Street	Jazz Alley	K Street	1164	30	50	97	2	1	87	0	13	
18	21 Street	K Street	K-L Alley (Kayak)	1155	30	50	97	2	1	87	0	13	
19	21 Street	K-L Alley (Kayak)	L Street	1145	30	50	97	2	1	87	0	13	
20	21 Street	L Street	Liestal Alley	1248	30	50	97	2	1	87	0	13	
21	21 Street	Liestal Alley	Capitol Avenue	1234	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing (5)

**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	19 Street	Improv Alley	J Street	59.3	53.0	57.1	62.0	8	25	79	248	785
2	19 Street	J Street	Jazz Alley	59.8	53.5	57.6	62.5	9	28	88	279	882
3	19 Street	K-L Alley (Kayak)	L Street	60.6	54.3	58.5	63.3	11	34	107	337	1065
4	19 Street	L Street	Liestal Alley	61.3	55.0	59.1	63.9	12	39	123	389	1230
5	20 Street	Improv Alley	J Street	55.5	49.2	53.3	58.1	3	10	32	102	323
6	20 Street	J Street	Jazz Alley	54.3	48.1	52.2	57.0	3	8	25	79	250
7	20 Street	Jazz Alley	K Street	54.5	48.2	52.4	57.2	3	8	26	83	261
8	20 Street	K Street	K-L Alley (Kayak)	54.7	48.4	52.5	57.3	3	9	27	86	270
9	20 Street	K-L Alley (Kayak)	L Street	55.0	48.7	52.8	57.6	3	9	29	92	289
10	20 Street	L Street	Liestal Alley	54.4	48.1	52.3	57.1	3	8	26	81	255
11	20 Street	Liestal Alley	Capitol Avenue	54.4	48.1	52.3	57.1	3	8	26	81	255
12	20 Street	Capitol Avenue	Matsui Alley	54.3	48.1	52.2	57.0	3	8	25	79	250
13	20 Street	Matsui Alley	N Street	54.1	47.8	51.9	56.7	2	7	24	74	235
14	20 Street	N Street	Neighbours Alley	53.7	47.4	51.6	56.4	2	7	22	69	217
15	21 Street	Improv Alley	J Street	61.6	55.3	59.4	64.2	13	42	132	419	1325
16	21 Street	J Street	Jazz Alley	62.3	56.1	60.2	65.0	16	50	158	500	1582
17	21 Street	Jazz Alley	K Street	62.3	56.1	60.2	65.0	16	50	158	500	1582
18	21 Street	K Street	K-L Alley (Kayak)	62.3	56.0	60.1	65.0	16	50	157	496	1569
19	21 Street	K-L Alley (Kayak)	L Street	62.3	56.0	60.1	64.9	16	49	156	492	1556
20	21 Street	L Street	Liestal Alley	62.7	56.4	60.5	65.3	17	54	170	536	1696
21	21 Street	Liestal Alley	Capitol Avenue	62.6	56.3	60.4	65.3	17	53	168	530	1677



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

### Model Input Sheet

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing (6)

**Ground Type :** Hard

**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** 9.76

**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	21 Street	Capitol Avenue	Matsui Alley	1319	30	50	97	2	1	87	0	13	
2	22 Street	K-L Alley (Kayak)	L Street	157	30	50	97	2	1	87	0	13	
3	22 Street	L Street	Liestal Alley	128	30	50	97	2	1	87	0	13	
4	22 Street	Liestal Alley	Capitol Avenue	142	30	50	97	2	1	87	0	13	
5	22 Street	Capitol Avenue	Matsui Alley	81	30	50	97	2	1	87	0	13	
6	22 Street	Matsui Alley	N Street	78	30	50	97	2	1	87	0	13	
7	22 Street	N Street	Neighbours Alley	73	30	50	97	2	1	87	0	13	
8	24 Street	Jazz Alley	K Street	243	30	50	97	2	1	87	0	13	
9	24 Street	K Street	K-L Alley (Kayak)	265	30	50	97	2	1	87	0	13	
10	24 Street	K-L Alley (Kayak)	L Street	263	30	50	97	2	1	87	0	13	
11	24 Street	L Street	Liestal Alley	242	30	50	97	2	1	87	0	13	
12	28 Street	L Street	Capitol Avenue	326	30	50	97	2	1	87	0	13	
13	28 Street	Capitol Avenue	Matsui Alley	358	30	50	97	2	1	87	0	13	
14	29 Street	Improv Alley	J Street	351	30	50	97	2	1	87	0	13	
15	29 Street	J Street	Jazz Alley	1010	30	50	97	2	1	87	0	13	
16	29 Street	Capitol Avenue	N Street	1387	30	50	97	2	1	87	0	13	
17	29 Street	N Street	Neighbours Alley	1038	30	50	97	2	1	87	0	13	
18	30 Street	Improv Alley	J Street	1476	30	50	97	2	1	87	0	13	
19	30 Street	J Street	Jazz Alley	1031	30	50	97	2	1	87	0	13	
20	30 Street	K-L Alley (Kayak)	L Street	1220	30	50	97	2	1	87	0	13	
21	30 Street	L Street	Liestal Alley	1331	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing (6)

**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	21 Street	Capitol Avenue	Matsui Alley	62.9	56.6	60.7	65.5	18	57	179	567	1792
2	22 Street	K-L Alley (Kayak)	L Street	53.6	47.4	51.5	56.3	2	7	21	67	213
3	22 Street	L Street	Liestal Alley	52.8	46.5	50.6	55.4	2	6	17	55	174
4	22 Street	Liestal Alley	Capitol Avenue	53.2	46.9	51.0	55.9	2	6	19	61	193
5	22 Street	Capitol Avenue	Matsui Alley	50.8	44.5	48.6	53.4	1	3	11	35	110
6	22 Street	Matsui Alley	N Street	50.6	44.3	48.4	53.3	1	3	11	34	106
7	22 Street	N Street	Neighbours Alley	50.3	44.0	48.2	53.0	1	3	10	31	99
8	24 Street	Jazz Alley	K Street	55.5	49.3	53.4	58.2	3	10	33	104	330
9	24 Street	K Street	K-L Alley (Kayak)	55.9	49.6	53.8	58.6	4	11	36	114	360
10	24 Street	K-L Alley (Kayak)	L Street	55.9	49.6	53.7	58.5	4	11	36	113	357
11	24 Street	L Street	Liestal Alley	55.5	49.2	53.4	58.2	3	10	33	104	329
12	28 Street	L Street	Capitol Avenue	56.8	50.5	54.7	59.5	4	14	44	140	443
13	28 Street	Capitol Avenue	Matsui Alley	57.2	50.9	55.1	59.9	5	15	49	154	486
14	29 Street	Improv Alley	J Street	57.1	50.9	55.0	59.8	5	15	48	151	477
15	29 Street	J Street	Jazz Alley	61.7	55.4	59.6	64.4	14	43	137	434	1372
16	29 Street	Capitol Avenue	N Street	63.1	56.8	60.9	65.8	19	60	188	596	1885
17	29 Street	N Street	Neighbours Alley	61.9	55.6	59.7	64.5	14	45	141	446	1410
18	30 Street	Improv Alley	J Street	63.4	57.1	61.2	66.0	20	63	201	634	2006
19	30 Street	J Street	Jazz Alley	61.8	55.5	59.7	64.5	14	44	140	443	1401
20	30 Street	K-L Alley (Kayak)	L Street	62.6	56.3	60.4	65.2	17	52	166	524	1658
21	30 Street	L Street	Liestal Alley	62.9	56.6	60.8	65.6	18	57	181	572	1809

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

### Model Input Sheet

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing (7)

**Ground Type :** Hard

**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** 9.76

**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	From	To	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
1	30 Street	Matsui Alley	N Street	999	30	50	97	2	1	87	0	13	
2	30 Street	N Street	Neighbours Alley	857	30	50	97	2	1	87	0	13	
3	J Street	18th Street	19th Street	1406	30	50	97	2	1	87	0	13	
4	J Street	19th Street	20th Street	1335	30	50	97	2	1	87	0	13	
5	J Street	20th Street	21st Street	1365	30	50	97	2	1	87	0	13	
6	J Street	21st Street	22nd Street	1554	30	50	97	2	1	87	0	13	
7	J Street	28th Street	29th Street	1409	30	50	97	2	1	87	0	13	
8	J Street	29th Street	30th Street	1309	30	50	97	2	1	87	0	13	
9	J Street	30th Street	Alhambra Boulevard	1191	30	50	97	2	1	87	0	13	
10	K Street	19th Street	20th Street	594	30	50	97	2	1	87	0	13	
11	K Street	20th Street	21st Street	620	30	50	97	2	1	87	0	13	
12	K Street	21st Street	22nd Street	698	30	50	97	2	1	87	0	13	
13	K Street	23rd Street	24th Street	715	30	50	97	2	1	87	0	13	
14	K Street	24th Street	25th Street	741	30	50	97	2	1	87	0	13	
15	K-L Alley	19th Street	20th Street	29	30	50	97	2	1	87	0	13	
16	K-L Alley	20th Street	21st Street	18	30	50	97	2	1	87	0	13	
17	K-L Alley	21st Street	22nd Street	18	30	50	97	2	1	87	0	13	
18	L Street	18th Street	19th Street	717	30	50	97	2	1	87	0	13	
19	L Street	19th Street	20th Street	775	30	50	97	2	1	87	0	13	
20	L Street	20th Street	21st Street	748	30	50	97	2	1	87	0	13	
21	L Street	21st Street	22nd Street	658	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing (7)

**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	30 Street	Matsui Alley	N Street	61.7	55.4	59.5	64.3	14	43	136	429	1357
2	30 Street	N Street	Neighbours Alley	61.0	54.7	58.8	63.7	12	37	116	368	1164
3	J Street	18th Street	19th Street	63.2	56.9	61.0	65.8	19	60	191	604	1910
4	J Street	19th Street	20th Street	62.9	56.7	60.8	65.6	18	57	181	574	1814
5	J Street	20th Street	21st Street	63.0	56.8	60.9	65.7	19	59	185	587	1855
6	J Street	21st Street	22nd Street	63.6	57.3	61.4	66.3	21	67	211	668	2112
7	J Street	28th Street	29th Street	63.2	56.9	61.0	65.8	19	61	191	605	1915
8	J Street	29th Street	30th Street	62.9	56.6	60.7	65.5	18	56	178	562	1779
9	J Street	30th Street	Alhambra Bouleva	62.4	56.2	60.3	65.1	16	51	162	512	1618
10	K Street	19th Street	20th Street	59.4	53.1	57.3	62.1	8	26	81	255	807
11	K Street	20th Street	21st Street	59.6	53.3	57.4	62.3	8	27	84	266	842
12	K Street	21st Street	22nd Street	60.1	53.8	58.0	62.8	9	30	95	300	948
13	K Street	23rd Street	24th Street	60.2	53.9	58.1	62.9	10	31	97	307	972
14	K Street	24th Street	25th Street	60.4	54.1	58.2	63.0	10	32	101	318	1007
15	K-L Alley	19th Street	20th Street	46.3	40.0	44.1	49.0	0	1	4	12	39
16	K-L Alley	20th Street	21st Street	44.2	38.0	42.1	46.9	0	1	2	8	24
17	K-L Alley	21st Street	22nd Street	44.2	38.0	42.1	46.9	0	1	2	8	24
18	L Street	18th Street	19th Street	60.2	54.0	58.1	62.9	10	31	97	308	974
19	L Street	19th Street	20th Street	60.6	54.3	58.4	63.2	11	33	105	333	1053
20	L Street	20th Street	21st Street	60.4	54.1	58.3	63.1	10	32	102	321	1016
21	L Street	21st Street	22nd Street	59.9	53.6	57.7	62.5	9	28	89	283	894

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

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Existing (8)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** 9.76  
**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	From	To	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
1	L Street	22nd Street	23rd Street	602	30	50	97	2	1	87	0	13	
2	L Street	23rd Street	24th Street	651	30	50	97	2	1	87	0	13	
3	L Street	24th Street	25th Street	590	30	50	97	2	1	87	0	13	
4	L Street	29th Street	30th Street	557	30	50	97	2	1	87	0	13	
5	L Street	30th Street	Alhambra Boulevard	352	30	50	97	2	1	87	0	13	
6	L-Capitol Alley	20th Street	21st Street	48	30	50	97	2	1	87	0	13	
7	L-Capitol Alley	21st Street	22nd Street	46	30	50	97	2	1	87	0	13	
8	L-Capitol Alley	23rd Street	24th Street	20	30	50	97	2	1	87	0	13	
9	Capitol Avenue	19th Street	20th Street	600	30	50	97	2	1	87	0	13	
10	Capitol Avenue	20th Street	21st Street	612	30	50	97	2	1	87	0	13	
11	Capitol Avenue	21st Street	22nd Street	648	30	50	97	2	1	87	0	13	
12	Capitol Avenue	22nd Street	23rd Street	667	30	50	97	2	1	87	0	13	
13	Capitol Avenue	27th Street	28th Street	911	30	50	97	2	1	87	0	13	
14	Capitol Avenue	28th Street	29th Street	1064	30	50	97	2	1	87	0	13	
15	N Street	19th Street	20th Street	731	30	50	97	2	1	87	0	13	
16	N Street	20th Street	21st Street	715	30	50	97	2	1	87	0	13	
17	N Street	21st Street	22nd Street	648	30	50	97	2	1	87	0	13	
18	N Street	22nd Street	23rd Street	660	30	50	97	2	1	87	0	13	
19	N Street	28th Street	29th Street	919	30	50	97	2	1	87	0	13	
20	N Street	29th Street	30th Street	1676	30	50	97	2	1	87	0	13	
21	N Street	30th Street	Alhambra Boulevard	752	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing (8)

**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	L Street	22nd Street	23rd Street	59.5	53.2	57.3	62.1	8	26	82	259	818
2	L Street	23rd Street	24th Street	59.8	53.5	57.7	62.5	9	28	88	280	885
3	L Street	24th Street	25th Street	59.4	53.1	57.2	62.1	8	25	80	254	802
4	L Street	29th Street	30th Street	59.1	52.9	57.0	61.8	8	24	76	239	757
5	L Street	30th Street	Alhambra Bouleva	57.2	50.9	55.0	59.8	5	15	48	151	478
6	L-Capitol Alley	20th Street	21st Street	48.5	42.2	46.3	51.2	1	2	7	21	65
7	L-Capitol Alley	21st Street	22nd Street	48.3	42.0	46.1	51.0	1	2	6	20	63
8	L-Capitol Alley	23rd Street	24th Street	44.7	38.4	42.5	47.4	0	1	3	9	27
9	Capitol Avenue	19th Street	20th Street	59.5	53.2	57.3	62.1	8	26	82	258	815
10	Capitol Avenue	20th Street	21st Street	59.6	53.3	57.4	62.2	8	26	83	263	832
11	Capitol Avenue	21st Street	22nd Street	59.8	53.5	57.6	62.5	9	28	88	278	881
12	Capitol Avenue	22nd Street	23rd Street	59.9	53.6	57.8	62.6	9	29	91	287	906
13	Capitol Avenue	27th Street	28th Street	61.3	55.0	59.1	63.9	12	39	124	391	1238
14	Capitol Avenue	28th Street	29th Street	62.0	55.7	59.8	64.6	14	46	145	457	1446
15	N Street	19th Street	20th Street	60.3	54.0	58.2	63.0	10	31	99	314	993
16	N Street	20th Street	21st Street	60.2	53.9	58.1	62.9	10	31	97	307	972
17	N Street	21st Street	22nd Street	59.8	53.5	57.6	62.5	9	28	88	278	881
18	N Street	22nd Street	23rd Street	59.9	53.6	57.7	62.5	9	28	90	284	897
19	N Street	28th Street	29th Street	61.3	55.0	59.2	64.0	12	39	125	395	1249
20	N Street	29th Street	30th Street	63.9	57.6	61.8	66.6	23	72	228	720	2277
21	N Street	30th Street	Alhambra Bouleva	60.5	54.2	58.3	63.1	10	32	102	323	1022

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

### Model Input Sheet

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Existing (PP1)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** 9.76  
**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	19 Street	Improv Alley	J Street	584	30	50	97	2	1	87	0	13	
2	19 Street	J Street	Jazz Alley	656	30	50	97	2	1	87	0	13	
3	19 Street	K-L Alley (Kayak)	L Street	794	30	50	97	2	1	87	0	13	
4	19 Street	L Street	Liestal Alley	940	30	50	97	2	1	87	0	13	
5	20 Street	Improv Alley	J Street	238	30	50	97	2	1	87	0	13	
6	20 Street	J Street	Jazz Alley	208	30	50	97	2	1	87	0	13	
7	20 Street	Jazz Alley	K Street	216	30	50	97	2	1	87	0	13	
8	20 Street	K Street	K-L Alley (Kayak)	312	30	50	97	2	1	87	0	13	
9	20 Street	K-L Alley (Kayak)	L Street	458	30	50	97	2	1	87	0	13	
10	20 Street	L Street	Liestal Alley	237	30	50	97	2	1	87	0	13	
11	20 Street	Liestal Alley	Capitol Avenue	237	30	50	97	2	1	87	0	13	
12	20 Street	Capitol Avenue	Matsui Alley	207	30	50	97	2	1	87	0	13	
13	20 Street	Matsui Alley	N Street	195	30	50	97	2	1	87	0	13	
14	20 Street	N Street	Neighbours Alley	166	30	50	97	2	1	87	0	13	
15	21 Street	Improv Alley	J Street	985	30	50	97	2	1	87	0	13	
16	21 Street	J Street	Jazz Alley	1179	30	50	97	2	1	87	0	13	
17	21 Street	Jazz Alley	K Street	1179	30	50	97	2	1	87	0	13	
18	21 Street	K Street	K-L Alley (Kayak)	1119	30	50	97	2	1	87	0	13	
19	21 Street	K-L Alley (Kayak)	L Street	1127	30	50	97	2	1	87	0	13	
20	21 Street	L Street	Liestal Alley	1340	30	50	97	2	1	87	0	13	
21	21 Street	Liestal Alley	Capitol Avenue	1301	30	50	97	2	1	87	0	13	

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**Traffic Noise Prediction Model, (FHWA RD-77-108)****Predicted Noise Levels****Project Name** : Whole Foods**Project Number** : 60334359**Modeling Condition** : Existing (PP1)**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	19 Street	Improv Alley	J Street	59.4	53.1	57.2	62.0	8	25	79	251	794
2	19 Street	J Street	Jazz Alley	59.9	53.6	57.7	62.5	9	28	89	282	891
3	19 Street	K-L Alley (Kayak)	L Street	60.7	54.4	58.5	63.3	11	34	108	341	1079
4	19 Street	L Street	Liestal Alley	61.4	55.1	59.3	64.1	13	40	128	404	1277
5	20 Street	Improv Alley	J Street	55.5	49.2	53.3	58.1	3	10	32	102	323
6	20 Street	J Street	Jazz Alley	54.9	48.6	52.7	57.5	3	9	28	89	283
7	20 Street	Jazz Alley	K Street	55.0	48.8	52.9	57.7	3	9	29	93	294
8	20 Street	K Street	K-L Alley (Kayak)	56.6	50.3	54.5	59.3	4	13	42	134	424
9	20 Street	K-L Alley (Kayak)	L Street	58.3	52.0	56.1	61.0	6	20	62	197	622
10	20 Street	L Street	Liestal Alley	55.4	49.2	53.3	58.1	3	10	32	102	322
11	20 Street	Liestal Alley	Capitol Avenue	55.4	49.2	53.3	58.1	3	10	32	102	322
12	20 Street	Capitol Avenue	Matsui Alley	54.8	48.6	52.7	57.5	3	9	28	89	281
13	20 Street	Matsui Alley	N Street	54.6	48.3	52.4	57.2	3	8	26	84	265
14	20 Street	N Street	Neighbours Alley	53.9	47.6	51.7	56.5	2	7	23	71	226
15	21 Street	Improv Alley	J Street	61.6	55.3	59.5	64.3	13	42	134	423	1338
16	21 Street	J Street	Jazz Alley	62.4	56.1	60.2	65.1	16	51	160	507	1602
17	21 Street	Jazz Alley	K Street	62.4	56.1	60.2	65.1	16	51	160	507	1602
18	21 Street	K Street	K-L Alley (Kayak)	62.2	55.9	60.0	64.8	15	48	152	481	1520
19	21 Street	K-L Alley (Kayak)	L Street	62.2	55.9	60.0	64.9	15	48	153	484	1531
20	21 Street	L Street	Liestal Alley	63.0	56.7	60.8	65.6	18	58	182	576	1821
21	21 Street	Liestal Alley	Capitol Avenue	62.8	56.5	60.7	65.5	18	56	177	559	1768



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

### Model Input Sheet

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Existing (PP2)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** 9.76  
**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	21 Street	Capitol Avenue	Matsui Alley	1368	30	50	97	2	1	87	0	13	
2	22 Street	K-L Alley (Kayak)	L Street	179	30	50	97	2	1	87	0	13	
3	22 Street	L Street	Liestal Alley	180	30	50	97	2	1	87	0	13	
4	22 Street	Liestal Alley	Capitol Avenue	160	30	50	97	2	1	87	0	13	
5	22 Street	Capitol Avenue	Matsui Alley	83	30	50	97	2	1	87	0	13	
6	22 Street	Matsui Alley	N Street	80	30	50	97	2	1	87	0	13	
7	22 Street	N Street	Neighbours Alley	75	30	50	97	2	1	87	0	13	
8	24 Street	Jazz Alley	K Street	245	30	50	97	2	1	87	0	13	
9	24 Street	K Street	K-L Alley (Kayak)	267	30	50	97	2	1	87	0	13	
10	24 Street	K-L Alley (Kayak)	L Street	266	30	50	97	2	1	87	0	13	
11	24 Street	L Street	Liestal Alley	244	30	50	97	2	1	87	0	13	
12	28 Street	L Street	Capitol Avenue	326	30	50	97	2	1	87	0	13	
13	28 Street	Capitol Avenue	Matsui Alley	358	30	50	97	2	1	87	0	13	
14	29 Street	Improv Alley	J Street	354	30	50	97	2	1	87	0	13	
15	29 Street	J Street	Jazz Alley	1015	30	50	97	2	1	87	0	13	
16	29 Street	Capitol Avenue	N Street	1403	30	50	97	2	1	87	0	13	
17	29 Street	N Street	Neighbours Alley	1048	30	50	97	2	1	87	0	13	
18	30 Street	Improv Alley	J Street	1488	30	50	97	2	1	87	0	13	
19	30 Street	J Street	Jazz Alley	1032	30	50	97	2	1	87	0	13	
20	30 Street	K-L Alley (Kayak)	L Street	1221	30	50	97	2	1	87	0	13	
21	30 Street	L Street	Liestal Alley	1348	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing (PP2)

**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	21 Street	Capitol Avenue	Matsui Alley	63.0	56.8	60.9	65.7	19	59	186	588	1859
2	22 Street	K-L Alley (Kayak)	L Street	54.2	47.9	52.0	56.9	2	8	24	77	243
3	22 Street	L Street	Liestal Alley	54.2	48.0	52.1	56.9	2	8	24	77	245
4	22 Street	Liestal Alley	Capitol Avenue	53.7	47.4	51.6	56.4	2	7	22	69	217
5	22 Street	Capitol Avenue	Matsui Alley	50.9	44.6	48.7	53.5	1	4	11	36	113
6	22 Street	Matsui Alley	N Street	50.7	44.4	48.6	53.4	1	3	11	34	109
7	22 Street	N Street	Neighbours Alley	50.4	44.2	48.3	53.1	1	3	10	32	102
8	24 Street	Jazz Alley	K Street	55.6	49.3	53.4	58.2	3	11	33	105	333
9	24 Street	K Street	K-L Alley (Kayak)	56.0	49.7	53.8	58.6	4	11	36	115	363
10	24 Street	K-L Alley (Kayak)	L Street	55.9	49.7	53.8	58.6	4	11	36	114	361
11	24 Street	L Street	Liestal Alley	55.6	49.3	53.4	58.2	3	10	33	105	332
12	28 Street	L Street	Capitol Avenue	56.8	50.5	54.7	59.5	4	14	44	140	443
13	28 Street	Capitol Avenue	Matsui Alley	57.2	50.9	55.1	59.9	5	15	49	154	486
14	29 Street	Improv Alley	J Street	57.2	50.9	55.0	59.8	5	15	48	152	481
15	29 Street	J Street	Jazz Alley	61.8	55.5	59.6	64.4	14	44	138	436	1379
16	29 Street	Capitol Avenue	N Street	63.2	56.9	61.0	65.8	19	60	191	603	1906
17	29 Street	N Street	Neighbours Alley	61.9	55.6	59.7	64.5	14	45	142	450	1424
18	30 Street	Improv Alley	J Street	63.4	57.1	61.2	66.1	20	64	202	639	2022
19	30 Street	J Street	Jazz Alley	61.8	55.5	59.7	64.5	14	44	140	443	1402
20	30 Street	K-L Alley (Kayak)	L Street	62.6	56.3	60.4	65.2	17	52	166	525	1659
21	30 Street	L Street	Liestal Alley	63.0	56.7	60.8	65.6	18	58	183	579	1832

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

### Model Input Sheet

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing (PP3)

**Ground Type :** Hard

**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** 9.76

**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	From	To	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
1	30 Street	Matsui Alley	N Street	1012	30	50	97	2	1	87	0	13	
2	30 Street	N Street	Neighbours Alley	857	30	50	97	2	1	87	0	13	
3	J Street	18th Street	19th Street	1426	30	50	97	2	1	87	0	13	
4	J Street	19th Street	20th Street	1354	30	50	97	2	1	87	0	13	
5	J Street	20th Street	21st Street	1382	30	50	97	2	1	87	0	13	
6	J Street	21st Street	22nd Street	1576	30	50	97	2	1	87	0	13	
7	J Street	28th Street	29th Street	1427	30	50	97	2	1	87	0	13	
8	J Street	29th Street	30th Street	1325	30	50	97	2	1	87	0	13	
9	J Street	30th Street	Alhambra Boulevard	1196	30	50	97	2	1	87	0	13	
10	K Street	19th Street	20th Street	625	30	50	97	2	1	87	0	13	
11	K Street	20th Street	21st Street	716	30	50	97	2	1	87	0	13	
12	K Street	21st Street	22nd Street	710	30	50	97	2	1	87	0	13	
13	K Street	23rd Street	24th Street	734	30	50	97	2	1	87	0	13	
14	K Street	24th Street	25th Street	758	30	50	97	2	1	87	0	13	
15	K-L Alley	19th Street	20th Street	31	30	50	97	2	1	87	0	13	
16	K-L Alley	20th Street	21st Street	18	30	50	97	2	1	87	0	13	
17	K-L Alley	21st Street	22nd Street	18	30	50	97	2	1	87	0	13	
18	L Street	18th Street	19th Street	737	30	50	97	2	1	87	0	13	
19	L Street	19th Street	20th Street	816	30	50	97	2	1	87	0	13	
20	L Street	20th Street	21st Street	855	30	50	97	2	1	87	0	13	
21	L Street	21st Street	22nd Street	650	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing (PP3)

**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	30 Street	Matsui Alley	N Street	61.7	55.5	59.6	64.4	14	43	138	435	1375
2	30 Street	N Street	Neighbours Alley	61.0	54.7	58.8	63.7	12	37	116	368	1164
3	J Street	18th Street	19th Street	63.2	56.9	61.1	65.9	19	61	194	613	1938
4	J Street	19th Street	20th Street	63.0	56.7	60.8	65.7	18	58	184	582	1840
5	J Street	20th Street	21st Street	63.1	56.8	60.9	65.7	19	59	188	594	1878
6	J Street	21st Street	22nd Street	63.7	57.4	61.5	66.3	21	68	214	677	2141
7	J Street	28th Street	29th Street	63.2	56.9	61.1	65.9	19	61	194	613	1939
8	J Street	29th Street	30th Street	62.9	56.6	60.7	65.6	18	57	180	569	1800
9	J Street	30th Street	Alhambra Bouleva	62.5	56.2	60.3	65.1	16	51	163	514	1625
10	K Street	19th Street	20th Street	59.6	53.4	57.5	62.3	8	27	85	269	849
11	K Street	20th Street	21st Street	60.2	54.0	58.1	62.9	10	31	97	308	973
12	K Street	21st Street	22nd Street	60.2	53.9	58.0	62.9	10	31	96	305	965
13	K Street	23rd Street	24th Street	60.3	54.1	58.2	63.0	10	32	100	315	997
14	K Street	24th Street	25th Street	60.5	54.2	58.3	63.1	10	33	103	326	1030
15	K-L Alley	19th Street	20th Street	46.6	40.3	44.4	49.3	0	1	4	13	42
16	K-L Alley	20th Street	21st Street	44.2	38.0	42.1	46.9	0	1	2	8	24
17	K-L Alley	21st Street	22nd Street	44.2	38.0	42.1	46.9	0	1	2	8	24
18	L Street	18th Street	19th Street	60.4	54.1	58.2	63.0	10	32	100	317	1001
19	L Street	19th Street	20th Street	60.8	54.5	58.6	63.5	11	35	111	351	1109
20	L Street	20th Street	21st Street	61.0	54.7	58.8	63.7	12	37	116	367	1162
21	L Street	21st Street	22nd Street	59.8	53.5	57.6	62.5	9	28	88	279	883

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

### Model Input Sheet

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Existing (PP4)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** 9.76  
**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	From	To	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
1	L Street	22nd Street	23rd Street	625	30	50	97	2	1	87	0	13	
2	L Street	23rd Street	24th Street	674	30	50	97	2	1	87	0	13	
3	L Street	24th Street	25th Street	611	30	50	97	2	1	87	0	13	
4	L Street	29th Street	30th Street	567	30	50	97	2	1	87	0	13	
5	L Street	30th Street	Alhambra Boulevard	353	30	50	97	2	1	87	0	13	
6	L-Capitol Alley	20th Street	21st Street	48	30	50	97	2	1	87	0	13	
7	L-Capitol Alley	21st Street	22nd Street	137	30	50	97	2	1	87	0	13	
8	L-Capitol Alley	23rd Street	24th Street	21	30	50	97	2	1	87	0	13	
9	Capitol Avenue	19th Street	20th Street	613	30	50	97	2	1	87	0	13	
10	Capitol Avenue	20th Street	21st Street	644	30	50	97	2	1	87	0	13	
11	Capitol Avenue	21st Street	22nd Street	678	30	50	97	2	1	87	0	13	
12	Capitol Avenue	22nd Street	23rd Street	698	30	50	97	2	1	87	0	13	
13	Capitol Avenue	27th Street	28th Street	936	30	50	97	2	1	87	0	13	
14	Capitol Avenue	28th Street	29th Street	1089	30	50	97	2	1	87	0	13	
15	N Street	19th Street	20th Street	743	30	50	97	2	1	87	0	13	
16	N Street	20th Street	21st Street	742	30	50	97	2	1	87	0	13	
17	N Street	21st Street	22nd Street	669	30	50	97	2	1	87	0	13	
18	N Street	22nd Street	23rd Street	681	30	50	97	2	1	87	0	13	
19	N Street	28th Street	29th Street	934	30	50	97	2	1	87	0	13	
20	N Street	29th Street	30th Street	1697	30	50	97	2	1	87	0	13	
21	N Street	30th Street	Alhambra Boulevard	754	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Existing (PP4)

**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	L Street	22nd Street	23rd Street	59.6	53.4	57.5	62.3	8	27	85	269	849
2	L Street	23rd Street	24th Street	60.0	53.7	57.8	62.6	9	29	92	290	916
3	L Street	24th Street	25th Street	59.5	53.3	57.4	62.2	8	26	83	263	830
4	L Street	29th Street	30th Street	59.2	52.9	57.1	61.9	8	24	77	244	770
5	L Street	30th Street	Alhambra Bouleva	57.2	50.9	55.0	59.8	5	15	48	152	480
6	L-Capitol Alley	20th Street	21st Street	48.5	42.2	46.3	51.2	1	2	7	21	65
7	L-Capitol Alley	21st Street	22nd Street	53.1	46.8	50.9	55.7	2	6	19	59	186
8	L-Capitol Alley	23rd Street	24th Street	44.9	38.6	42.7	47.6	0	1	3	9	29
9	Capitol Avenue	19th Street	20th Street	59.6	53.3	57.4	62.2	8	26	83	263	833
10	Capitol Avenue	20th Street	21st Street	59.8	53.5	57.6	62.4	9	28	88	277	875
11	Capitol Avenue	21st Street	22nd Street	60.0	53.7	57.8	62.7	9	29	92	291	921
12	Capitol Avenue	22nd Street	23rd Street	60.1	53.8	58.0	62.8	9	30	95	300	948
13	Capitol Avenue	27th Street	28th Street	61.4	55.1	59.2	64.1	13	40	127	402	1272
14	Capitol Avenue	28th Street	29th Street	62.1	55.8	59.9	64.7	15	47	148	468	1480
15	N Street	19th Street	20th Street	60.4	54.1	58.2	63.1	10	32	101	319	1010
16	N Street	20th Street	21st Street	60.4	54.1	58.2	63.0	10	32	101	319	1008
17	N Street	21st Street	22nd Street	59.9	53.7	57.8	62.6	9	29	91	287	909
18	N Street	22nd Street	23rd Street	60.0	53.7	57.9	62.7	9	29	93	293	925
19	N Street	28th Street	29th Street	61.4	55.1	59.2	64.0	13	40	127	401	1269
20	N Street	29th Street	30th Street	64.0	57.7	61.8	66.6	23	73	231	729	2306
21	N Street	30th Street	Alhambra Bouleva	60.5	54.2	58.3	63.1	10	32	102	324	1025

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

### Model Input Sheet

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Cumulative (1)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** 9.76  
**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	19 Street	Improv Alley	J Street	754	30	50	97	2	1	87	0	13	
2	19 Street	J Street	Jazz Alley	923	30	50	97	2	1	87	0	13	
3	19 Street	K-L Alley (Kayak)	L Street	940	30	50	97	2	1	87	0	13	
4	19 Street	L Street	Liestal Alley	1075	30	50	97	2	1	87	0	13	
5	20 Street	Improv Alley	J Street	300	30	50	97	2	1	87	0	13	
6	20 Street	J Street	Jazz Alley	226	30	50	97	2	1	87	0	13	
7	20 Street	Jazz Alley	K Street	246	30	50	97	2	1	87	0	13	
8	20 Street	K Street	K-L Alley (Kayak)	237	30	50	97	2	1	87	0	13	
9	20 Street	K-L Alley (Kayak)	L Street	255	30	50	97	2	1	87	0	13	
10	20 Street	L Street	Liestal Alley	241	30	50	97	2	1	87	0	13	
11	20 Street	Liestal Alley	Capitol Avenue	251	30	50	97	2	1	87	0	13	
12	20 Street	Capitol Avenue	Matsui Alley	237	30	50	97	2	1	87	0	13	
13	20 Street	Matsui Alley	N Street	238	30	50	97	2	1	87	0	13	
14	20 Street	N Street	Neighbours Alley	224	30	50	97	2	1	87	0	13	
15	21 Street	Improv Alley	J Street	1080	30	50	97	2	1	87	0	13	
16	21 Street	J Street	Jazz Alley	1275	30	50	97	2	1	87	0	13	
17	21 Street	Jazz Alley	K Street	1275	30	50	97	2	1	87	0	13	
18	21 Street	K Street	K-L Alley (Kayak)	1246	30	50	97	2	1	87	0	13	
19	21 Street	K-L Alley (Kayak)	L Street	1248	30	50	97	2	1	87	0	13	
20	21 Street	L Street	Liestal Alley	1328	30	50	97	2	1	87	0	13	
21	21 Street	Liestal Alley	Capitol Avenue	1313	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Cumulative (1)

**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	19 Street	Improv Alley	J Street	60.5	54.2	58.3	63.1	10	32	102	324	1025
2	19 Street	J Street	Jazz Alley	61.3	55.1	59.2	64.0	13	40	125	397	1254
3	19 Street	K-L Alley (Kayak)	L Street	61.4	55.1	59.3	64.1	13	40	128	404	1277
4	19 Street	L Street	Liestal Alley	62.0	55.7	59.8	64.7	15	46	146	462	1461
5	20 Street	Improv Alley	J Street	56.5	50.2	54.3	59.1	4	13	41	129	408
6	20 Street	J Street	Jazz Alley	55.2	48.9	53.1	57.9	3	10	31	97	307
7	20 Street	Jazz Alley	K Street	55.6	49.3	53.4	58.3	3	11	33	106	334
8	20 Street	K Street	K-L Alley (Kayak)	55.4	49.2	53.3	58.1	3	10	32	102	322
9	20 Street	K-L Alley (Kayak)	L Street	55.8	49.5	53.6	58.4	3	11	35	110	346
10	20 Street	L Street	Liestal Alley	55.5	49.2	53.3	58.2	3	10	33	104	327
11	20 Street	Liestal Alley	Capitol Avenue	55.7	49.4	53.5	58.3	3	11	34	108	341
12	20 Street	Capitol Avenue	Matsui Alley	55.4	49.2	53.3	58.1	3	10	32	102	322
13	20 Street	Matsui Alley	N Street	55.5	49.2	53.3	58.1	3	10	32	102	323
14	20 Street	N Street	Neighbours Alley	55.2	48.9	53.0	57.8	3	10	30	96	304
15	21 Street	Improv Alley	J Street	62.0	55.7	59.9	64.7	15	46	147	464	1468
16	21 Street	J Street	Jazz Alley	62.7	56.5	60.6	65.4	17	55	173	548	1732
17	21 Street	Jazz Alley	K Street	62.7	56.5	60.6	65.4	17	55	173	548	1732
18	21 Street	K Street	K-L Alley (Kayak)	62.6	56.4	60.5	65.3	17	54	169	535	1693
19	21 Street	K-L Alley (Kayak)	L Street	62.7	56.4	60.5	65.3	17	54	170	536	1696
20	21 Street	L Street	Liestal Alley	62.9	56.6	60.8	65.6	18	57	180	571	1804
21	21 Street	Liestal Alley	Capitol Avenue	62.9	56.6	60.7	65.5	18	56	178	564	1784



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

### Model Input Sheet

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Cumulative (2)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** 9.76  
**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	21 Street	Capitol Avenue	Matsui Alley	1431	30	50	97	2	1	87	0	13	
2	22 Street	K-L Alley (Kayak)	L Street	218	30	50	97	2	1	87	0	13	
3	22 Street	L Street	Liestal Alley	198	30	50	97	2	1	87	0	13	
4	22 Street	Liestal Alley	Capitol Avenue	237	30	50	97	2	1	87	0	13	
5	22 Street	Capitol Avenue	Matsui Alley	188	30	50	97	2	1	87	0	13	
6	22 Street	Matsui Alley	N Street	208	30	50	97	2	1	87	0	13	
7	22 Street	N Street	Neighbours Alley	153	30	50	97	2	1	87	0	13	
8	24 Street	Jazz Alley	K Street	268	30	50	97	2	1	87	0	13	
9	24 Street	K Street	K-L Alley (Kayak)	278	30	50	97	2	1	87	0	13	
10	24 Street	K-L Alley (Kayak)	L Street	277	30	50	97	2	1	87	0	13	
11	24 Street	L Street	Liestal Alley	268	30	50	97	2	1	87	0	13	
12	28 Street	L Street	Capitol Avenue	450	30	50	97	2	1	87	0	13	
13	28 Street	Capitol Avenue	Matsui Alley	450	30	50	97	2	1	87	0	13	
14	29 Street	Improv Alley	J Street	927	30	50	97	2	1	87	0	13	
15	29 Street	J Street	Jazz Alley	1625	30	50	97	2	1	87	0	13	
16	29 Street	Capitol Avenue	N Street	1534	30	50	97	2	1	87	0	13	
17	29 Street	N Street	Neighbours Alley	1220	30	50	97	2	1	87	0	13	
18	30 Street	Improv Alley	J Street	1128	30	50	97	2	1	87	0	13	
19	30 Street	J Street	Jazz Alley	1229	30	50	97	2	1	87	0	13	
20	30 Street	K-L Alley (Kayak)	L Street	1349	30	50	97	2	1	87	0	13	
21	30 Street	L Street	Liestal Alley	1493	30	50	97	2	1	87	0	13	

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**Traffic Noise Prediction Model, (FHWA RD-77-108)****Predicted Noise Levels****Project Name :** Whole Foods**Project Number :** 60334359**Modeling Condition :** Cumulative (2)**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	21 Street	Capitol Avenue	Matsui Alley	63.2	57.0	61.1	65.9	19	61	194	615	1944
2	22 Street	K-L Alley (Kayak)	L Street	55.1	48.8	52.9	57.7	3	9	30	94	296
3	22 Street	L Street	Liestal Alley	54.7	48.4	52.5	57.3	3	9	27	85	269
4	22 Street	Liestal Alley	Capitol Avenue	55.4	49.2	53.3	58.1	3	10	32	102	322
5	22 Street	Capitol Avenue	Matsui Alley	54.4	48.1	52.3	57.1	3	8	26	81	255
6	22 Street	Matsui Alley	N Street	54.9	48.6	52.7	57.5	3	9	28	89	283
7	22 Street	N Street	Neighbours Alley	53.5	47.3	51.4	56.2	2	7	21	66	208
8	24 Street	Jazz Alley	K Street	56.0	49.7	53.8	58.6	4	12	36	115	364
9	24 Street	K Street	K-L Alley (Kayak)	56.1	49.8	54.0	58.8	4	12	38	119	378
10	24 Street	K-L Alley (Kayak)	L Street	56.1	49.8	53.9	58.8	4	12	38	119	376
11	24 Street	L Street	Liestal Alley	56.0	49.7	53.8	58.6	4	12	36	115	364
12	28 Street	L Street	Capitol Avenue	58.2	51.9	56.1	60.9	6	19	61	193	611
13	28 Street	Capitol Avenue	Matsui Alley	58.2	51.9	56.1	60.9	6	19	61	193	611
14	29 Street	Improv Alley	J Street	61.4	55.1	59.2	64.0	13	40	126	398	1260
15	29 Street	J Street	Jazz Alley	63.8	57.5	61.6	66.5	22	70	221	698	2208
16	29 Street	Capitol Avenue	N Street	63.5	57.3	61.4	66.2	21	66	208	659	2084
17	29 Street	N Street	Neighbours Alley	62.6	56.3	60.4	65.2	17	52	166	524	1658
18	30 Street	Improv Alley	J Street	62.2	55.9	60.0	64.9	15	48	153	485	1533
19	30 Street	J Street	Jazz Alley	62.6	56.3	60.4	65.2	17	53	167	528	1670
20	30 Street	K-L Alley (Kayak)	L Street	63.0	56.7	60.8	65.6	18	58	183	580	1833
21	30 Street	L Street	Liestal Alley	63.4	57.1	61.3	66.1	20	64	203	642	2029

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

### Model Input Sheet

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Cumulative (3)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** 9.76  
**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	From	To	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
1	30 Street	Matsui Alley	N Street	627	30	50	97	2	1	87	0	13	
2	30 Street	N Street	Neighbours Alley	1850	30	50	97	2	1	87	0	13	
3	J Street	18th Street	19th Street	1550	30	50	97	2	1	87	0	13	
4	J Street	19th Street	20th Street	1381	30	50	97	2	1	87	0	13	
5	J Street	20th Street	21st Street	1413	30	50	97	2	1	87	0	13	
6	J Street	21st Street	22nd Street	1608	30	50	97	2	1	87	0	13	
7	J Street	28th Street	29th Street	1472	30	50	97	2	1	87	0	13	
8	J Street	29th Street	30th Street	1824	30	50	97	2	1	87	0	13	
9	J Street	30th Street	Alhambra Boulevard	1265	30	50	97	2	1	87	0	13	
10	K Street	19th Street	20th Street	699	30	50	97	2	1	87	0	13	
11	K Street	20th Street	21st Street	724	30	50	97	2	1	87	0	13	
12	K Street	21st Street	22nd Street	808	30	50	97	2	1	87	0	13	
13	K Street	23rd Street	24th Street	761	30	50	97	2	1	87	0	13	
14	K Street	24th Street	25th Street	793	30	50	97	2	1	87	0	13	
15	K-L Alley	19th Street	20th Street	48	30	50	97	2	1	87	0	13	
16	K-L Alley	20th Street	21st Street	38	30	50	97	2	1	87	0	13	
17	K-L Alley	21st Street	22nd Street	30	30	50	97	2	1	87	0	13	
18	L Street	18th Street	19th Street	780	30	50	97	2	1	87	0	13	
19	L Street	19th Street	20th Street	849	30	50	97	2	1	87	0	13	
20	L Street	20th Street	21st Street	843	30	50	97	2	1	87	0	13	
21	L Street	21st Street	22nd Street	808	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Cumulative (3)

**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	30 Street	Matsui Alley	N Street	59.7	53.4	57.5	62.3	9	27	85	269	852
2	30 Street	N Street	Neighbours Alley	64.4	58.1	62.2	67.0	25	79	251	795	2514
3	J Street	18th Street	19th Street	63.6	57.3	61.4	66.2	21	67	211	666	2106
4	J Street	19th Street	20th Street	63.1	56.8	60.9	65.7	19	59	188	593	1877
5	J Street	20th Street	21st Street	63.2	56.9	61.0	65.8	19	61	192	607	1920
6	J Street	21st Street	22nd Street	63.8	57.5	61.6	66.4	22	69	218	691	2185
7	J Street	28th Street	29th Street	63.4	57.1	61.2	66.0	20	63	200	633	2000
8	J Street	29th Street	30th Street	64.3	58.0	62.1	67.0	25	78	248	784	2478
9	J Street	30th Street	Alhambra Bouleva	62.7	56.4	60.5	65.4	17	54	172	544	1719
10	K Street	19th Street	20th Street	60.1	53.9	58.0	62.8	9	30	95	300	950
11	K Street	20th Street	21st Street	60.3	54.0	58.1	62.9	10	31	98	311	984
12	K Street	21st Street	22nd Street	60.8	54.5	58.6	63.4	11	35	110	347	1098
13	K Street	23rd Street	24th Street	60.5	54.2	58.3	63.2	10	33	103	327	1034
14	K Street	24th Street	25th Street	60.7	54.4	58.5	63.3	11	34	108	341	1078
15	K-L Alley	19th Street	20th Street	48.5	42.2	46.3	51.2	1	2	7	21	65
16	K-L Alley	20th Street	21st Street	47.5	41.2	45.3	50.1	1	2	5	16	52
17	K-L Alley	21st Street	22nd Street	46.5	40.2	44.3	49.1	0	1	4	13	41
18	L Street	18th Street	19th Street	60.6	54.3	58.4	63.3	11	34	106	335	1060
19	L Street	19th Street	20th Street	61.0	54.7	58.8	63.6	12	36	115	365	1154
20	L Street	20th Street	21st Street	60.9	54.7	58.8	63.6	11	36	115	362	1145
21	L Street	21st Street	22nd Street	60.8	54.5	58.6	63.4	11	35	110	347	1098

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

### Model Input Sheet

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Cumulative (4)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** 9.76  
**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	From	To	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
1	L Street	22nd Street	23rd Street	747	30	50	97	2	1	87	0	13	
2	L Street	23rd Street	24th Street	777	30	50	97	2	1	87	0	13	
3	L Street	24th Street	25th Street	709	30	50	97	2	1	87	0	13	
4	L Street	29th Street	30th Street	780	30	50	97	2	1	87	0	13	
5	L Street	30th Street	Alhambra Boulevard	509	30	50	97	2	1	87	0	13	
6	L-Capitol Alley	20th Street	21st Street	65	30	50	97	2	1	87	0	13	
7	L-Capitol Alley	21st Street	22nd Street	64	30	50	97	2	1	87	0	13	
8	L-Capitol Alley	23rd Street	24th Street	44	30	50	97	2	1	87	0	13	
9	Capitol Avenue	19th Street	20th Street	647	30	50	97	2	1	87	0	13	
10	Capitol Avenue	20th Street	21st Street	708	30	50	97	2	1	87	0	13	
11	Capitol Avenue	21st Street	22nd Street	770	30	50	97	2	1	87	0	13	
12	Capitol Avenue	22nd Street	23rd Street	809	30	50	97	2	1	87	0	13	
13	Capitol Avenue	27th Street	28th Street	1115	30	50	97	2	1	87	0	13	
14	Capitol Avenue	28th Street	29th Street	1265	30	50	97	2	1	87	0	13	
15	N Street	19th Street	20th Street	818	30	50	97	2	1	87	0	13	
16	N Street	20th Street	21st Street	783	30	50	97	2	1	87	0	13	
17	N Street	21st Street	22nd Street	694	30	50	97	2	1	87	0	13	
18	N Street	22nd Street	23rd Street	739	30	50	97	2	1	87	0	13	
19	N Street	28th Street	29th Street	1155	30	50	97	2	1	87	0	13	
20	N Street	29th Street	30th Street	1899	30	50	97	2	1	87	0	13	
21	N Street	30th Street	Alhambra Boulevard	548	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Cumulative (4)

**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	L Street	22nd Street	23rd Street	60.4	54.1	58.3	63.1	10	32	102	321	1015
2	L Street	23rd Street	24th Street	60.6	54.3	58.4	63.2	11	33	106	334	1056
3	L Street	24th Street	25th Street	60.2	53.9	58.0	62.8	10	30	96	305	963
4	L Street	29th Street	30th Street	60.6	54.3	58.4	63.3	11	34	106	335	1060
5	L Street	30th Street	Alhambra Bouleva	58.8	52.5	56.6	61.4	7	22	69	219	692
6	L-Capitol Alley	20th Street	21st Street	49.8	43.5	47.6	52.5	1	3	9	28	88
7	L-Capitol Alley	21st Street	22nd Street	49.8	43.5	47.6	52.4	1	3	9	28	87
8	L-Capitol Alley	23rd Street	24th Street	48.1	41.8	46.0	50.8	1	2	6	19	60
9	Capitol Avenue	19th Street	20th Street	59.8	53.5	57.6	62.5	9	28	88	278	879
10	Capitol Avenue	20th Street	21st Street	60.2	53.9	58.0	62.8	10	30	96	304	962
11	Capitol Avenue	21st Street	22nd Street	60.6	54.3	58.4	63.2	10	33	105	331	1046
12	Capitol Avenue	22nd Street	23rd Street	60.8	54.5	58.6	63.4	11	35	110	348	1099
13	Capitol Avenue	27th Street	28th Street	62.2	55.9	60.0	64.8	15	48	152	479	1515
14	Capitol Avenue	28th Street	29th Street	62.7	56.4	60.5	65.4	17	54	172	544	1719
15	N Street	19th Street	20th Street	60.8	54.5	58.6	63.5	11	35	111	351	1111
16	N Street	20th Street	21st Street	60.6	54.3	58.5	63.3	11	34	106	336	1064
17	N Street	21st Street	22nd Street	60.1	53.8	57.9	62.8	9	30	94	298	943
18	N Street	22nd Street	23rd Street	60.4	54.1	58.2	63.0	10	32	100	318	1004
19	N Street	28th Street	29th Street	62.3	56.0	60.1	65.0	16	50	157	496	1569
20	N Street	29th Street	30th Street	64.5	58.2	62.3	67.1	26	82	258	816	2580
21	N Street	30th Street	Alhambra Bouleva	59.1	52.8	56.9	61.7	7	24	74	235	745

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

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Cumulative (PP1)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** 9.76  
**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	19 Street	Improv Alley	J Street	760	30	50	97	2	1	87	0	13	
2	19 Street	J Street	Jazz Alley	930	30	50	97	2	1	87	0	13	
3	19 Street	K-L Alley (Kayak)	L Street	950	30	50	97	2	1	87	0	13	
4	19 Street	L Street	Liestal Alley	1110	30	50	97	2	1	87	0	13	
5	20 Street	Improv Alley	J Street	300	30	50	97	2	1	87	0	13	
6	20 Street	J Street	Jazz Alley	250	30	50	97	2	1	87	0	13	
7	20 Street	Jazz Alley	K Street	270	30	50	97	2	1	87	0	13	
8	20 Street	K Street	K-L Alley (Kayak)	350	30	50	97	2	1	87	0	13	
9	20 Street	K-L Alley (Kayak)	L Street	500	30	50	97	2	1	87	0	13	
10	20 Street	L Street	Liestal Alley	290	30	50	97	2	1	87	0	13	
11	20 Street	Liestal Alley	Capitol Avenue	300	30	50	97	2	1	87	0	13	
12	20 Street	Capitol Avenue	Matsui Alley	260	30	50	97	2	1	87	0	13	
13	20 Street	Matsui Alley	N Street	260	30	50	97	2	1	87	0	13	
14	20 Street	N Street	Neighbours Alley	230	30	50	97	2	1	87	0	13	
15	21 Street	Improv Alley	J Street	1090	30	50	97	2	1	87	0	13	
16	21 Street	J Street	Jazz Alley	1290	30	50	97	2	1	87	0	13	
17	21 Street	Jazz Alley	K Street	1290	30	50	97	2	1	87	0	13	
18	21 Street	K Street	K-L Alley (Kayak)	1210	30	50	97	2	1	87	0	13	
19	21 Street	K-L Alley (Kayak)	L Street	1230	30	50	97	2	1	87	0	13	
20	21 Street	L Street	Liestal Alley	1420	30	50	97	2	1	87	0	13	
21	21 Street	Liestal Alley	Capitol Avenue	1380	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Cumulative (PP1)

**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	19 Street	Improv Alley	J Street	60.5	54.2	58.3	63.1	10	33	103	327	1033
2	19 Street	J Street	Jazz Alley	61.4	55.1	59.2	64.0	13	40	126	400	1264
3	19 Street	K-L Alley (Kayak)	L Street	61.5	55.2	59.3	64.1	13	41	129	408	1291
4	19 Street	L Street	Liestal Alley	62.1	55.9	60.0	64.8	15	48	151	477	1508
5	20 Street	Improv Alley	J Street	56.5	50.2	54.3	59.1	4	13	41	129	408
6	20 Street	J Street	Jazz Alley	55.7	49.4	53.5	58.3	3	11	34	107	340
7	20 Street	Jazz Alley	K Street	56.0	49.7	53.8	58.7	4	12	37	116	367
8	20 Street	K Street	K-L Alley (Kayak)	57.1	50.8	55.0	59.8	5	15	48	150	476
9	20 Street	K-L Alley (Kayak)	L Street	58.7	52.4	56.5	61.3	7	21	68	215	679
10	20 Street	L Street	Liestal Alley	56.3	50.0	54.1	59.0	4	12	39	125	394
11	20 Street	Liestal Alley	Capitol Avenue	56.5	50.2	54.3	59.1	4	13	41	129	408
12	20 Street	Capitol Avenue	Matsui Alley	55.8	49.6	53.7	58.5	4	11	35	112	353
13	20 Street	Matsui Alley	N Street	55.8	49.6	53.7	58.5	4	11	35	112	353
14	20 Street	N Street	Neighbours Alley	55.3	49.0	53.1	58.0	3	10	31	99	313
15	21 Street	Improv Alley	J Street	62.1	55.8	59.9	64.7	15	47	148	468	1481
16	21 Street	J Street	Jazz Alley	62.8	56.5	60.6	65.4	18	55	175	554	1753
17	21 Street	Jazz Alley	K Street	62.8	56.5	60.6	65.4	18	55	175	554	1753
18	21 Street	K Street	K-L Alley (Kayak)	62.5	56.2	60.3	65.2	16	52	164	520	1644
19	21 Street	K-L Alley (Kayak)	L Street	62.6	56.3	60.4	65.2	17	53	167	529	1671
20	21 Street	L Street	Liestal Alley	63.2	56.9	61.0	65.9	19	61	193	610	1929
21	21 Street	Liestal Alley	Capitol Avenue	63.1	56.8	60.9	65.7	19	59	188	593	1875



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

### Model Input Sheet

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Cumulative (PP2)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** 9.76  
**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	21 Street	Capitol Avenue	Matsui Alley	1480	30	50	97	2	1	87	0	13	
2	22 Street	K-L Alley (Kayak)	L Street	240	30	50	97	2	1	87	0	13	
3	22 Street	L Street	Liestal Alley	250	30	50	97	2	1	87	0	13	
4	22 Street	Liestal Alley	Capitol Avenue	255	30	50	97	2	1	87	0	13	
5	22 Street	Capitol Avenue	Matsui Alley	190	30	50	97	2	1	87	0	13	
6	22 Street	Matsui Alley	N Street	210	30	50	97	2	1	87	0	13	
7	22 Street	N Street	Neighbours Alley	155	30	50	97	2	1	87	0	13	
8	24 Street	Jazz Alley	K Street	270	30	50	97	2	1	87	0	13	
9	24 Street	K Street	K-L Alley (Kayak)	280	30	50	97	2	1	87	0	13	
10	24 Street	K-L Alley (Kayak)	L Street	280	30	50	97	2	1	87	0	13	
11	24 Street	L Street	Liestal Alley	270	30	50	97	2	1	87	0	13	
12	28 Street	L Street	Capitol Avenue	450	30	50	97	2	1	87	0	13	
13	28 Street	Capitol Avenue	Matsui Alley	450	30	50	97	2	1	87	0	13	
14	29 Street	Improv Alley	J Street	930	30	50	97	2	1	87	0	13	
15	29 Street	J Street	Jazz Alley	1630	30	50	97	2	1	87	0	13	
16	29 Street	Capitol Avenue	N Street	1550	30	50	97	2	1	87	0	13	
17	29 Street	N Street	Neighbours Alley	1230	30	50	97	2	1	87	0	13	
18	30 Street	Improv Alley	J Street	1140	30	50	97	2	1	87	0	13	
19	30 Street	J Street	Jazz Alley	1230	30	50	97	2	1	87	0	13	
20	30 Street	K-L Alley (Kayak)	L Street	1350	30	50	97	2	1	87	0	13	
21	30 Street	L Street	Liestal Alley	1510	30	50	97	2	1	87	0	13	

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**Traffic Noise Prediction Model, (FHWA RD-77-108)****Predicted Noise Levels****Project Name** : Whole Foods**Project Number** : 60334359**Modeling Condition** : Cumulative (PP2)**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	21 Street	Capitol Avenue	Matsui Alley	63.4	57.1	61.2	66.0	20	64	201	636	2011
2	22 Street	K-L Alley (Kayak)	L Street	55.5	49.2	53.3	58.1	3	10	33	103	326
3	22 Street	L Street	Liestal Alley	55.7	49.4	53.5	58.3	3	11	34	107	340
4	22 Street	Liestal Alley	Capitol Avenue	55.8	49.5	53.6	58.4	3	11	35	110	346
5	22 Street	Capitol Avenue	Matsui Alley	54.5	48.2	52.3	57.1	3	8	26	82	258
6	22 Street	Matsui Alley	N Street	54.9	48.6	52.7	57.6	3	9	29	90	285
7	22 Street	N Street	Neighbours Alley	53.6	47.3	51.4	56.2	2	7	21	67	211
8	24 Street	Jazz Alley	K Street	56.0	49.7	53.8	58.7	4	12	37	116	367
9	24 Street	K Street	K-L Alley (Kayak)	56.2	49.9	54.0	58.8	4	12	38	120	380
10	24 Street	K-L Alley (Kayak)	L Street	56.2	49.9	54.0	58.8	4	12	38	120	380
11	24 Street	L Street	Liestal Alley	56.0	49.7	53.8	58.7	4	12	37	116	367
12	28 Street	L Street	Capitol Avenue	58.2	51.9	56.1	60.9	6	19	61	193	611
13	28 Street	Capitol Avenue	Matsui Alley	58.2	51.9	56.1	60.9	6	19	61	193	611
14	29 Street	Improv Alley	J Street	61.4	55.1	59.2	64.0	13	40	126	400	1264
15	29 Street	J Street	Jazz Alley	63.8	57.5	61.6	66.5	22	70	221	700	2215
16	29 Street	Capitol Avenue	N Street	63.6	57.3	61.4	66.2	21	67	211	666	2106
17	29 Street	N Street	Neighbours Alley	62.6	56.3	60.4	65.2	17	53	167	529	1671
18	30 Street	Improv Alley	J Street	62.3	56.0	60.1	64.9	15	49	155	490	1549
19	30 Street	J Street	Jazz Alley	62.6	56.3	60.4	65.2	17	53	167	529	1671
20	30 Street	K-L Alley (Kayak)	L Street	63.0	56.7	60.8	65.6	18	58	183	580	1834
21	30 Street	L Street	Liestal Alley	63.5	57.2	61.3	66.1	21	65	205	649	2052

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

### Model Input Sheet

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Cumulative (PP3)  
**Ground Type :** Hard  
**Metric ( $L_{eq}$ ,  $L_{dn}$ , CNEL) :** Ldn

**K Factor :** 9.76  
**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	30 Street	Matsui Alley	N Street	640	30	50	97	2	1	87	0	13	
2	30 Street	N Street	Neighbours Alley	1850	30	50	97	2	1	87	0	13	
3	J Street	18th Street	19th Street	1570	30	50	97	2	1	87	0	13	
4	J Street	19th Street	20th Street	1400	30	50	97	2	1	87	0	13	
5	J Street	20th Street	21st Street	1430	30	50	97	2	1	87	0	13	
6	J Street	21st Street	22nd Street	1630	30	50	97	2	1	87	0	13	
7	J Street	28th Street	29th Street	1490	30	50	97	2	1	87	0	13	
8	J Street	29th Street	30th Street	1840	30	50	97	2	1	87	0	13	
9	J Street	30th Street	Alhambra Boulevard	1270	30	50	97	2	1	87	0	13	
10	K Street	19th Street	20th Street	730	30	50	97	2	1	87	0	13	
11	K Street	20th Street	21st Street	820	30	50	97	2	1	87	0	13	
12	K Street	21st Street	22nd Street	820	30	50	97	2	1	87	0	13	
13	K Street	23rd Street	24th Street	780	30	50	97	2	1	87	0	13	
14	K Street	24th Street	25th Street	810	30	50	97	2	1	87	0	13	
15	K-L Alley	19th Street	20th Street	50	30	50	97	2	1	87	0	13	
16	K-L Alley	20th Street	21st Street	38	30	50	97	2	1	87	0	13	
17	K-L Alley	21st Street	22nd Street	30	30	50	97	2	1	87	0	13	
18	L Street	18th Street	19th Street	800	30	50	97	2	1	87	0	13	
19	L Street	19th Street	20th Street	890	30	50	97	2	1	87	0	13	
20	L Street	20th Street	21st Street	950	30	50	97	2	1	87	0	13	
21	L Street	21st Street	22nd Street	800	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Cumulative (PP3)

**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	30 Street	Matsui Alley	N Street	59.8	53.5	57.6	62.4	9	28	87	275	870
2	30 Street	N Street	Neighbours Alley	64.4	58.1	62.2	67.0	25	79	251	795	2514
3	J Street	18th Street	19th Street	63.6	57.4	61.5	66.3	21	67	213	675	2133
4	J Street	19th Street	20th Street	63.1	56.9	61.0	65.8	19	60	190	602	1902
5	J Street	20th Street	21st Street	63.2	57.0	61.1	65.9	19	61	194	614	1943
6	J Street	21st Street	22nd Street	63.8	57.5	61.6	66.5	22	70	221	700	2215
7	J Street	28th Street	29th Street	63.4	57.1	61.3	66.1	20	64	202	640	2025
8	J Street	29th Street	30th Street	64.3	58.1	62.2	67.0	25	79	250	791	2500
9	J Street	30th Street	Alhambra Bouleva	62.7	56.4	60.6	65.4	17	55	173	546	1726
10	K Street	19th Street	20th Street	60.3	54.0	58.2	63.0	10	31	99	314	992
11	K Street	20th Street	21st Street	60.8	54.5	58.7	63.5	11	35	111	352	1114
12	K Street	21st Street	22nd Street	60.8	54.5	58.7	63.5	11	35	111	352	1114
13	K Street	23rd Street	24th Street	60.6	54.3	58.4	63.3	11	34	106	335	1060
14	K Street	24th Street	25th Street	60.8	54.5	58.6	63.4	11	35	110	348	1101
15	K-L Alley	19th Street	20th Street	48.7	42.4	46.5	51.3	1	2	7	21	68
16	K-L Alley	20th Street	21st Street	47.5	41.2	45.3	50.1	1	2	5	16	52
17	K-L Alley	21st Street	22nd Street	46.5	40.2	44.3	49.1	0	1	4	13	41
18	L Street	18th Street	19th Street	60.7	54.4	58.6	63.4	11	34	109	344	1087
19	L Street	19th Street	20th Street	61.2	54.9	59.0	63.8	12	38	121	382	1209
20	L Street	20th Street	21st Street	61.5	55.2	59.3	64.1	13	41	129	408	1291
21	L Street	21st Street	22nd Street	60.7	54.4	58.6	63.4	11	34	109	344	1087

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

**Project Name :** Whole Foods  
**Project Number :** 60334359  
**Modeling Condition :** Cumulative (PP4)  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** 9.76  
**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	From	To	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
1	L Street	22nd Street	23rd Street	770	30	50	97	2	1	87	0	13	
2	L Street	23rd Street	24th Street	800	30	50	97	2	1	87	0	13	
3	L Street	24th Street	25th Street	730	30	50	97	2	1	87	0	13	
4	L Street	29th Street	30th Street	790	30	50	97	2	1	87	0	13	
5	L Street	30th Street	Alhambra Boulevard	510	30	50	97	2	1	87	0	13	
6	L-Capitol Alley	20th Street	21st Street	65	30	50	97	2	1	87	0	13	
7	L-Capitol Alley	21st Street	22nd Street	155	30	50	97	2	1	87	0	13	
8	L-Capitol Alley	23rd Street	24th Street	45	30	50	97	2	1	87	0	13	
9	Capitol Avenue	19th Street	20th Street	660	30	50	97	2	1	87	0	13	
10	Capitol Avenue	20th Street	21st Street	740	30	50	97	2	1	87	0	13	
11	Capitol Avenue	21st Street	22nd Street	800	30	50	97	2	1	87	0	13	
12	Capitol Avenue	22nd Street	23rd Street	840	30	50	97	2	1	87	0	13	
13	Capitol Avenue	27th Street	28th Street	1140	30	50	97	2	1	87	0	13	
14	Capitol Avenue	28th Street	29th Street	1290	30	50	97	2	1	87	0	13	
15	N Street	19th Street	20th Street	830	30	50	97	2	1	87	0	13	
16	N Street	20th Street	21st Street	810	30	50	97	2	1	87	0	13	
17	N Street	21st Street	22nd Street	715	30	50	97	2	1	87	0	13	
18	N Street	22nd Street	23rd Street	760	30	50	97	2	1	87	0	13	
19	N Street	28th Street	29th Street	1170	30	50	97	2	1	87	0	13	
20	N Street	29th Street	30th Street	1920	30	50	97	2	1	87	0	13	
21	N Street	30th Street	Alhambra Boulevard	550	30	50	97	2	1	87	0	13	

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

### Predicted Noise Levels

**Project Name :** Whole Foods

**Project Number :** 60334359

**Modeling Condition :** Cumulative (PP4)

**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	L Street	22nd Street	23rd Street	60.6	54.3	58.4	63.2	10	33	105	331	1046
2	L Street	23rd Street	24th Street	60.7	54.4	58.6	63.4	11	34	109	344	1087
3	L Street	24th Street	25th Street	60.3	54.0	58.2	63.0	10	31	99	314	992
4	L Street	29th Street	30th Street	60.7	54.4	58.5	63.3	11	34	107	339	1073
5	L Street	30th Street	Alhambra Bouleva	58.8	52.5	56.6	61.4	7	22	69	219	693
6	L-Capitol Alley	20th Street	21st Street	49.8	43.5	47.6	52.5	1	3	9	28	88
7	L-Capitol Alley	21st Street	22nd Street	53.6	47.3	51.4	56.2	2	7	21	67	211
8	L-Capitol Alley	23rd Street	24th Street	48.2	41.9	46.1	50.9	1	2	6	19	61
9	Capitol Avenue	19th Street	20th Street	59.9	53.6	57.7	62.5	9	28	90	284	897
10	Capitol Avenue	20th Street	21st Street	60.4	54.1	58.2	63.0	10	32	101	318	1006
11	Capitol Avenue	21st Street	22nd Street	60.7	54.4	58.6	63.4	11	34	109	344	1087
12	Capitol Avenue	22nd Street	23rd Street	60.9	54.6	58.8	63.6	11	36	114	361	1141
13	Capitol Avenue	27th Street	28th Street	62.3	56.0	60.1	64.9	15	49	155	490	1549
14	Capitol Avenue	28th Street	29th Street	62.8	56.5	60.6	65.4	18	55	175	554	1753
15	N Street	19th Street	20th Street	60.9	54.6	58.7	63.5	11	36	113	357	1128
16	N Street	20th Street	21st Street	60.8	54.5	58.6	63.4	11	35	110	348	1101
17	N Street	21st Street	22nd Street	60.2	53.9	58.1	62.9	10	31	97	307	972
18	N Street	22nd Street	23rd Street	60.5	54.2	58.3	63.1	10	33	103	327	1033
19	N Street	28th Street	29th Street	62.4	56.1	60.2	65.0	16	50	159	503	1590
20	N Street	29th Street	30th Street	64.5	58.2	62.4	67.2	26	83	261	825	2609
21	N Street	30th Street	Alhambra Bouleva	59.1	52.8	56.9	61.7	7	24	75	236	747