

Appendix L

Noise Calculation Worksheets

1360 Vine Project

Noise Calculations Worksheets

Provided by Acoustical Engineering Services

Ambient Noise Measurements

Location: R1 -
 Date: 4/11/2018

Time	Overload	Leq	Lmax	L10	L90
10:45:44 AM	No	55.2	62.1	58.3	51.3
10:46:44 AM	No	55.7	61.2	58.8	51.2
10:47:44 AM	No	54.6	60.3	57.3	52.1
10:48:44 AM	No	54.6	62.8	57.4	50.9
10:49:44 AM	No	54	60.4	56.9	50.7
10:50:44 AM	No	54.8	58.9	57.3	51.6
10:51:44 AM	No	55.2	58.3	56.8	53.2
10:52:44 AM	No	56.5	64.5	58.8	50.7
10:53:44 AM	No	54.6	63.8	56.1	50.9
10:54:44 AM	No	52.3	59.8	53.8	49.3
10:55:44 AM	No	53.1	56.4	54.8	50.8
10:56:44 AM	No	55.9	67.8	57.9	51.3
10:57:44 AM	No	57.6	69.2	59.2	50.2
10:58:44 AM	No	53	56.7	55.2	50.1
10:59:44 AM	No	54	61.9	55.7	50.5
		55.0			

Time	Overload	Leq	Lmax	L10	L90
9:59:19 PM	No	56.3	62.6	60.4	50.8
10:00:19 PM	No	50	57.5	51.9	46.1
10:01:19 PM	No	50.4	54.5	51.9	47.9
10:02:19 PM	No	61	65.5	64.6	51.4
10:03:19 PM	No	53.1	59.1	56.4	46.3
10:04:19 PM	No	50.5	57.2	53.2	46
10:05:19 PM	No	49.9	53.6	52.5	46.7
10:06:19 PM	No	52.4	62.6	55.4	45.6
10:07:19 PM	No	49.9	56.1	52.9	45.8
10:08:19 PM	No	51.5	59.2	55.2	45
10:09:19 PM	No	52.9	60.1	57	44.6
10:10:19 PM	No	48.2	52	50	45.6
10:11:19 PM	No	49.1	52.2	51	46.5
10:12:19 PM	No	50.1	57	52.9	46.4
10:13:19 PM	No	50.1	54.3	52.8	46.1
		53.4			

Location: R2 -
Date: 4/11/2018

Time	Overload	Leq	Lmax	L10	L90
11:05:42 AM	No	54.4	59.5	56.6	52.1
11:06:42 AM	No	54.7	58.6	56.7	52.8
11:07:42 AM	No	55	59.8	57.5	51.7
11:08:42 AM	No	56	58.5	57	54.2
11:09:42 AM	No	54.4	56.3	55.6	52.9
11:10:42 AM	No	53.7	57.2	55.2	52
11:11:42 AM	No	52.3	55.6	53.2	51.5
11:12:42 AM	No	52.4	59.6	53.5	50.7
11:13:42 AM	No	62.4	68.5	67.4	51.9
11:14:42 AM	No	57.5	65	60.1	54.6
11:15:42 AM	No	56.5	65.1	58.2	54.5
11:16:42 AM	No	55.4	64.1	57.3	52.4
11:17:42 AM	No	52.2	56.3	54.1	49.9
11:18:42 AM	No	51.5	54.3	53.3	49.6
11:19:42 AM	No	52.2	55.7	54.2	49.5

55.8

Time	Overload	Leq	Lmax	L10	L90
10:20:47 PM	No	53.6	58.6	55.4	49.6
10:21:47 PM	No	49.4	54.9	51.5	47.4
10:22:47 PM	No	48.9	57.3	50.2	47.6
10:23:47 PM	No	47.8	51.7	48.8	47
10:24:47 PM	No	48.5	55.5	50.3	46.8
10:25:47 PM	No	47.6	55.3	48.3	46.7
10:26:47 PM	No	48.2	49.5	49.1	47
10:27:47 PM	No	49	53.4	49.7	48
10:28:47 PM	No	48.8	51.7	49.8	47.9
10:29:47 PM	No	48.8	56.8	49.2	47.7
10:30:47 PM	No	49.1	55.3	50.2	47.7
10:31:47 PM	No	48.7	53.3	50.1	47.4
10:32:47 PM	No	48.2	50.2	49.3	47.5
10:33:47 PM	No	49.4	55.8	50	47.7
10:34:47 PM	No	48.2	51.5	49	47.4

49.2

Location: R3
 Date: 4/11/2018

Time	Overload	Leq	Lmax	L10	L90
11:32:14 AM	No	58.1	65	60.9	55.1
11:33:14 AM	No	59.9	62.9	61.6	58.3
11:34:14 AM	No	58.9	65.4	61.7	55.7
11:35:14 AM	No	60.4	68.6	64.1	56
11:36:14 AM	No	56.3	57.7	57.1	55.5
11:37:14 AM	No	58.2	67.3	58.9	55.6
11:38:14 AM	No	57.7	62.5	58.9	56.5
11:39:14 AM	No	58.3	64.1	59.7	56.8
11:40:14 AM	No	62.3	74.2	66.6	56.5
11:41:14 AM	No	60.5	68.2	63.7	56.7
11:42:14 AM	No	57.8	62.2	59.9	56.2
11:43:14 AM	No	57.5	62.6	59.9	55.7
11:44:14 AM	No	57.6	62.9	60.6	54.6
11:45:14 AM	No	58.6	63.5	61.9	55.7
11:46:14 AM	No	58.6	62.9	60.7	56.6
		59.0			

Time	Overload	Leq	Lmax	L10	L90
10:41:51 PM	No	61.2	68.7	63.6	55.9
10:42:51 PM	No	69.2	77	73.5	61.3
10:43:51 PM	No	71.2	83.7	73.8	53.7
10:44:51 PM	No	59.4	70.5	61	52.1
10:45:51 PM	No	53	57.6	54.4	51.7
10:46:51 PM	No	55.6	65.6	57.9	51.7
10:47:51 PM	No	53.3	56.9	54.3	52.3
10:48:51 PM	No	52.4	54.2	52.7	52
10:49:51 PM	No	56.4	66.4	58.5	52.1
10:50:51 PM	No	55.2	65.8	56.1	51.9
10:51:51 PM	No	59.4	67.2	64.2	52.7
10:52:51 PM	No	57.2	65.8	61.3	52.3
10:53:51 PM	No	53.2	58.7	54.4	51.7
10:54:51 PM	No	52.5	58.7	53.4	51.3
10:55:51 PM	No	56.2	63.1	60.3	52.2
		56.1			

Location: R4
Date: 4/11/2018

Time	Overload	Leq	Lmax	L10	L90
12:12:42 PM	No	68.9	78.1	74.4	59.6
12:13:42 PM	No	74.9	84.7	78.8	60.7
12:14:42 PM	No	69.5	79	73.2	61.2
12:15:42 PM	No	67.3	73.1	70.7	61.5
12:16:42 PM	No	72.8	79	76.5	67.5
12:17:42 PM	No	66.4	69.5	68.8	60.7
12:18:42 PM	No	65.6	72.2	68.6	60.6
12:19:42 PM	No	73.4	84.8	76.1	61.2
12:20:42 PM	No	71.1	78.4	75.3	64.2
12:21:42 PM	No	70.8	77.3	75.4	61.3
12:22:42 PM	No	70.2	77.6	74.4	62.8
12:23:42 PM	No	72	79.9	76.2	65.1
12:24:42 PM	No	67	71.7	70.3	61
12:25:42 PM	No	76.4	83.2	80.4	71.2
12:26:42 PM	No	73.4	81.5	77	65.1
		71.7			

Time	Overload	Leq	Lmax	L10	L90
11:21:27 PM	No	63.8	70.4	67.8	52.5
11:22:27 PM	No	66.4	73	72.2	56.5
11:23:27 PM	No	64.2	72.2	67.6	57.6
11:24:27 PM	No	64.3	71.6	68.9	54.1
11:25:27 PM	No	67.9	76.2	72	57.4
11:26:27 PM	No	62.4	68.3	66.7	53.1
11:27:27 PM	No	64.2	69.5	68.1	54
11:28:27 PM	No	68.1	73.9	72.8	53
11:29:27 PM	No	63.7	70.7	68.9	52.8
11:30:27 PM	No	63	69	66.8	56.5
11:31:27 PM	No	62.2	70.1	67.7	54.3
11:32:27 PM	No	67.2	75.9	70.9	55.4
11:33:27 PM	No	64.9	69.7	68.1	56.1
11:34:27 PM	No	65.3	74.6	68.3	55.5
11:35:27 PM	No	66.7	73.5	70.7	52.9
		65.4			

Location: R5
Date: 4/11/2018

Time	Overload	Leq	Lmax	L10	L90
11:52:39 AM	No	73.6	79.4	76.8	71
11:53:39 AM	No	69.9	74.4	71.2	68.2
11:54:39 AM	No	68.8	71.5	70.9	66.8
11:55:39 AM	No	69.2	72.6	71.7	67.3
11:56:39 AM	No	73.3	80.3	77.3	68.8
11:57:39 AM	No	71.3	74.9	73.5	68.1
11:58:39 AM	No	69.4	76.5	70.9	67.5
11:59:39 AM	No	69.5	75.9	70.7	67.9
12:00:39 PM	No	70.6	74.6	72.6	67.5
12:01:39 PM	No	72.8	78.8	74.3	69.7
12:02:39 PM	No	70.2	73.1	70.9	68.6
12:03:39 PM	No	68.9	70.7	70.3	68
12:04:39 PM	No	69.2	72	71.1	67.5
12:05:39 PM	No	70.1	73	71.6	67.8
12:06:39 PM	No	66.7	80.8	66	60.8

70.6

Time	Overload	Leq	Lmax	L10	L90
11:01:13 PM	No	63.7	74.7	67.6	53.2
11:02:13 PM	No	60.8	68.8	64.5	54
11:03:13 PM	No	68.9	80.8	72.8	56.3
11:04:13 PM	No	63.3	71.3	66.8	54.9
11:05:13 PM	No	57.5	66	59.1	54.3
11:06:13 PM	No	60.7	67.3	64.4	56.1
11:07:13 PM	No	61.8	69.5	67.5	53.8
11:08:13 PM	No	64.4	75.7	67	58.5
11:09:13 PM	No	64.1	69.9	68.1	56.3
11:10:13 PM	No	60.9	66.3	64.2	55.7
11:11:13 PM	No	59.7	68.4	63.5	53.5
11:12:13 PM	No	61.2	72	64.3	53.6
11:13:13 PM	No	60.6	66.2	64.7	52.8
11:14:13 PM	No	59.7	66.2	62.9	55.2
11:15:13 PM	No	61.8	72.2	67.1	53.5

62.9

Construction Noise & Vibration Calculations

Project: 1360 Vine Project - OFFICE OPTION

FROM SPREADSHEET

Estimated Construction Noise Levels, dBA Leq

Rec.	Description	Closest Distance	Demolition	Grading/Excavation	Mat Foundation	Foundation	Building Construction	Paving	Ambient	Significance Threshold	Impacts	Max above Threshold
R1		60	82.7	80.3	79.5	82.0	83.2	79.2	55.0	60.0	Yes	23.2
R2		10	98.1	96.0	93.3	94.7	97.7	93.3	55.8	60.8	Yes	37.3
R3		65	82.5	81.0	79.5	82.0	83.0	79.4	59.0	64.0	Yes	19.0
R4		265	70.8	69.8	68.9	71.8	71.9	68.4	71.7	76.7	No	-4.8
R5		445	66.4	65.5	64.7	67.7	67.7	64.1	70.6	75.6	No	-7.9

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	60	0
Excavator	1	81	40%	80	0
Rubber Tired Loader	1	79	40%	80	0
Tractor/Loader/Backhoe	1	79	40%	100	0
Air Compressor	1	78	40%	100	0
Water Truck	1	76	40%	125	0

6

Receptor: *R1*

Results:
1-hour Leq: 82.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: Grading/Excavation

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	60	0
Excavator	1	81	40%	80	0
Crane	1	81	16%	80	0
Welders	1	74	40%	100	0
Excavator	1	81	40%	100	0
Concrete Pump	1	81	20%	125	0
Water Truck	1	76	40%	125	0
Rubber Tired Loaders	1	79	40%	150	0
Excavator	1	81	40%	150	0

9

Receptor: *R1*

Results:
1-hour Leq: 79.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Mat Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixers	1	80	50%	60	0
Concrete Pump	1	81	20%	80	0
Crane	1	81	16%	80	0
Tractor/Loader/Backhoe	1	79	40%	100	0
Concrete Pump	3	81	20%	100	0
Welders	1	74	40%	125	0
Cement and Mortar Mixers	1	80	50%	125	0

9

Receptor: **R1**

Results:
1-hour Leq: **79.5**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Plate Compactor	1	83	20%	60	0
Cement and Mortar Mixer	1	80	50%	80	0
Concrete Saw	1	90	20%	80	0
Crane	1	81	16%	100	0
Fork Lift	1	75	20%	100	0
Concrete Pump	1	81	20%	125	0
Fork Lift	1	75	20%	125	0
Plate Compactor	1	83	20%	150	0
Rough Terrain Forklifts	2	75	20%	150	0
Welders	2	74	40%	150	0
Cement and Mortar Mixer	1	80	50%	150	0
Plate Compactor	2	83	20%	150	0

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Receptor: ***R1***

Results:

1-hour Leq: 82.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	60	0
Crane	1	81	16%	80	0
Cement and Mortar Mixer	1	80	50%	80	0
Air Compressor	3	78	40%	100	0
Aerial Lift	1	75	20%	100	0
Fork Lift	2	75	20%	125	0
Concrete Pump	1	81	20%	125	0
Plate Compactor	1	83	20%	150	0
Welders	2	74	40%	150	0
Crane	1	81	16%	150	0
Aerial Lift	2	75	20%	150	0
Plate Compactor	1	83	20%	150	0

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Receptor: **R1**

Results:
1-hour Leq: **83.2**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: Paving

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	60	0
Paving Equipment	1	77	50%	80	0
Roller	1	80	20%	80	0
Skid Steer Loaders	2	79	40%	100	0
Tractor/Loader/Backhoe	2	79	40%	100	0

Receptor: 7
R1

Results:
1-hour Leq: 79.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	10	0
Excavator	1	81	40%	10	0
Rubber Tired Loader	1	79	40%	30	0
Tractor/Loader/Backhoe	1	79	40%	30	0
Air Compressor	1	78	40%	55	0
Water Truck	1	76	40%	55	0

6

Receptor: **R2**

Results:
1-hour Leq: 98.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: Grading/Excavation

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	10	0
Excavator	1	81	40%	10	0
Crane	1	81	16%	30	0
Welders	1	74	40%	30	0
Excavator	1	81	40%	55	0
Concrete Pump	1	81	20%	55	0
Water Truck	1	76	40%	80	0
Rubber Tired Loaders	1	79	40%	80	0
Excavator	1	81	40%	105	0

9

Receptor: **R2**

Results:
1-hour Leq: 94.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Mat Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixers	1	80	50%	10	0
Concrete Pump	1	81	20%	10	0
Crane	1	81	16%	30	0
Tractor/Loader/Backhoe	1	79	40%	30	0
Concrete Pump	3	81	20%	55	0
Welders	1	74	40%	55	0
Cement and Mortar Mixers	1	80	50%	80	0

9

Receptor: **R2**

Results:
1-hour Leq: **93.3**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Plate Compactor	1	83	20%	10	0
Cement and Mortar Mixer	1	80	50%	10	0
Concrete Saw	1	90	20%	30	0
Crane	1	81	16%	30	0
Fork Lift	1	75	20%	55	0
Concrete Pump	1	81	20%	55	0
Fork Lift	1	75	20%	80	0
Plate Compactor	1	83	20%	80	0
Rough Terrain Forklifts	2	75	20%	105	0
Welders	2	74	40%	105	0
Cement and Mortar Mixer	1	80	50%	130	0
Plate Compactor	2	83	20%	130	0

15

Receptor: R2

Results:

1-hour Leq: 94.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	10	0
Crane	1	81	16%	10	0
Cement and Mortar Mixer	1	80	50%	30	0
Air Compressor	3	78	40%	30	0
Aerial Lift	1	75	20%	55	0
Fork Lift	2	75	20%	55	0
Concrete Pump	1	81	20%	80	0
Plate Compactor	1	83	20%	80	0
Welders	2	74	40%	105	0
Crane	1	81	16%	105	0
Aerial Lift	2	75	20%	130	0
Plate Compactor	1	83	20%	130	0

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Receptor: **R2**

Results:
1-hour Leq: 97.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: Paving

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	10	0
Paving Equipment	1	77	50%	10	0
Roller	1	80	20%	30	0
Skid Steer Loaders	2	79	40%	30	0
Tractor/Loader/Backhoe	2	79	40%	55	0

Receptor: 7
R2

Results:
1-hour Leq: 93.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	65	0
Excavator	1	81	40%	65	0
Rubber Tired Loader	1	79	40%	85	0
Tractor/Loader/Backhoe	1	79	40%	85	0
Air Compressor	1	78	40%	105	0
Water Truck	1	76	40%	105	0

6

Receptor: **R3**

Results:
1-hour Leq: **82.5**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: Grading/Excavation

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	65	0
Excavator	1	81	40%	65	0
Crane	1	81	16%	85	0
Welders	1	74	40%	85	0
Excavator	1	81	40%	105	0
Concrete Pump	1	81	20%	105	0
Water Truck	1	76	40%	125	0
Rubber Tired Loaders	1	79	40%	125	0
Excavator	1	81	40%	145	0

9

Receptor: **R3**

Results:
1-hour Leq: **80.0**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Mat Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixers	1	80	50%	65	0
Concrete Pump	1	81	20%	65	0
Crane	1	81	16%	85	0
Tractor/Loader/Backhoe	1	79	40%	85	0
Concrete Pump	3	81	20%	105	0
Welders	1	74	40%	105	0
Cement and Mortar Mixers	1	80	50%	125	0

9

Receptor: **R3**

Results:
1-hour Leq: **79.5**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Plate Compactor	1	83	20%	65	0
Cement and Mortar Mixer	1	80	50%	65	0
Concrete Saw	1	90	20%	85	0
Crane	1	81	16%	85	0
Fork Lift	1	75	20%	105	0
Concrete Pump	1	81	20%	105	0
Fork Lift	1	75	20%	125	0
Plate Compactor	1	83	20%	125	0
Rough Terrain Forklifts	2	75	20%	145	0
Welders	2	74	40%	145	0
Cement and Mortar Mixer	1	80	50%	165	0
Plate Compactor	2	83	20%	165	0

15

Receptor: **R3**

Results:

1-hour Leq: 82.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	65	0
Crane	1	81	16%	65	0
Cement and Mortar Mixer	1	80	50%	85	0
Air Compressor	3	78	40%	85	0
Aerial Lift	1	75	20%	105	0
Fork Lift	2	75	20%	105	0
Concrete Pump	1	81	20%	125	0
Plate Compactor	1	83	20%	125	0
Welders	2	74	40%	145	0
Crane	1	81	16%	145	0
Aerial Lift	2	75	20%	165	0
Plate Compactor	1	83	20%	165	0

17

Receptor: **R3**

Results:
1-hour Leq: 83.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: Paving

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	65	0
Paving Equipment	1	77	50%	65	0
Roller	1	80	20%	85	0
Skid Steer Loaders	2	79	40%	85	0
Tractor/Loader/Backhoe	2	79	40%	105	0

Receptor: 7 **R3**

Results: **1-hour Leq:** **79.4**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	265	0
Excavator	1	81	40%	265	0
Rubber Tired Loader	1	79	40%	285	0
Tractor/Loader/Backhoe	1	79	40%	285	0
Air Compressor	1	78	40%	305	0
Water Truck	1	76	40%	305	0

6

Receptor: *R4*

Results:
1-hour Leq: 70.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: Grading/Excavation

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	265	0
Excavator	1	81	40%	265	0
Crane	1	81	16%	285	0
Welders	1	74	40%	285	0
Excavator	1	81	40%	305	0
Concrete Pump	1	81	20%	305	0
Water Truck	1	76	40%	325	0
Rubber Tired Loaders	1	79	40%	325	0
Excavator	1	81	40%	345	0

9

Receptor: *R4*

Results:
1-hour Leq: 69.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Mat Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixers	1	80	50%	265	0
Concrete Pump	1	81	20%	265	0
Crane	1	81	16%	285	0
Tractor/Loader/Backhoe	1	79	40%	285	0
Concrete Pump	3	81	20%	305	0
Welders	1	74	40%	305	0
Cement and Mortar Mixers	1	80	50%	325	0

9

Receptor: *R4*

Results:
1-hour Leq: 68.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Plate Compactor	1	83	20%	265	0
Cement and Mortar Mixer	1	80	50%	265	0
Concrete Saw	1	90	20%	285	0
Crane	1	81	16%	285	0
Fork Lift	1	75	20%	305	0
Concrete Pump	1	81	20%	305	0
Fork Lift	1	75	20%	325	0
Plate Compactor	1	83	20%	325	0
Rough Terrain Forklifts	2	75	20%	345	0
Welders	2	74	40%	345	0
Cement and Mortar Mixer	1	80	50%	365	0
Plate Compactor	2	83	20%	365	0

15

Receptor: ***R4***

Results:

1-hour Leq: 71.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	265	0
Crane	1	81	16%	265	0
Cement and Mortar Mixer	1	80	50%	285	0
Air Compressor	3	78	40%	285	0
Aerial Lift	1	75	20%	305	0
Fork Lift	2	75	20%	305	0
Concrete Pump	1	81	20%	325	0
Plate Compactor	1	83	20%	325	0
Welders	2	74	40%	345	0
Crane	1	81	16%	345	0
Aerial Lift	2	75	20%	365	0
Plate Compactor	1	83	20%	365	0

17

Receptor: **R4**

Results:
1-hour Leq: 71.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: Paving

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	265	0
Paving Equipment	1	77	50%	265	0
Roller	1	80	20%	285	0
Skid Steer Loaders	2	79	40%	285	0
Tractor/Loader/Backhoe	2	79	40%	305	0

Receptor: 7
R4

Results:
1-hour Leq: 68.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	445	0
Excavator	1	81	40%	445	0
Rubber Tired Loader	1	79	40%	465	0
Tractor/Loader/Backhoe	1	79	40%	465	0
Air Compressor	1	78	40%	485	0
Water Truck	1	76	40%	485	0

6

Receptor: **R5**

Results:
1-hour Leq: 66.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: Grading/Excavation

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	445	0
Excavator	1	81	40%	445	0
Crane	1	81	16%	465	0
Welders	1	74	40%	465	0
Excavator	1	81	40%	485	0
Concrete Pump	1	81	20%	485	0
Water Truck	1	76	40%	505	0
Rubber Tired Loaders	1	79	40%	505	0
Excavator	1	81	40%	525	0

9

Receptor: **R5**

Results:
1-hour Leq: 65.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Mat Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixers	1	80	50%	445	0
Concrete Pump	1	81	20%	445	0
Crane	1	81	16%	465	0
Tractor/Loader/Backhoe	1	79	40%	465	0
Concrete Pump	3	81	20%	485	0
Welders	1	74	40%	485	0
Cement and Mortar Mixers	1	80	50%	505	0

9

Receptor: **R5**

Results:
1-hour Leq: **64.7**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Plate Compactor	1	83	20%	445	0
Cement and Mortar Mixer	1	80	50%	445	0
Concrete Saw	1	90	20%	465	0
Crane	1	81	16%	465	0
Fork Lift	1	75	20%	485	0
Concrete Pump	1	81	20%	485	0
Fork Lift	1	75	20%	505	0
Plate Compactor	1	83	20%	505	0
Rough Terrain Forklifts	2	75	20%	525	0
Welders	2	74	40%	525	0
Cement and Mortar Mixer	1	80	50%	545	0
Plate Compactor	2	83	20%	545	0

15

Receptor: R5

Results:

1-hour Leq: 67.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	445	0
Crane	1	81	16%	445	0
Cement and Mortar Mixer	1	80	50%	465	0
Air Compressor	3	78	40%	465	0
Aerial Lift	1	75	20%	485	0
Fork Lift	2	75	20%	485	0
Concrete Pump	1	81	20%	505	0
Plate Compactor	1	83	20%	505	0
Welders	2	74	40%	525	0
Crane	1	81	16%	525	0
Aerial Lift	2	75	20%	545	0
Plate Compactor	1	83	20%	545	0

17

Receptor: R5

Results:

1-hour Leq: 67.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Construction Phase: Paving

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	445	0
Paving Equipment	1	77	50%	445	0
Roller	1	80	20%	465	0
Skid Steer Loaders	2	79	40%	465	0
Tractor/Loader/Backhoe	2	79	40%	485	0

Receptor: 7 **R5**

Results: **1-hour Leq:** **64.1**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

FROM SPREADSHEET

Estimated Construction Noise Levels, dBA Leq

Rec.	Description	Closest Distance	Demolition	Grading/Excavation	Mat Foundation	Foundation	Building Construction	Paving	Ambient	Significance Threshold	Impacts	Max above Threshold
R1		60	82.7	79.2	79.5	82.0	83.2	79.2	55.0	60.0	Yes	23.2
R2		10	98.1	94.3	93.3	94.7	97.7	93.3	55.8	60.8	Yes	37.3
R3		65	82.5	79.5	79.5	82.0	83.0	79.4	59.0	64.0	Yes	19.0
R4		265	70.8	68.4	68.9	71.8	71.9	68.4	71.7	76.7	No	-4.8
R5		445	66.4	64.1	64.7	67.7	67.7	64.1	70.6	75.6	No	-7.9

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	60	0
Excavator	1	81	40%	80	0
Rubber Tired Loader	1	79	40%	80	0
Tractor/Loader/Backhoe	1	79	40%	100	0
Air Compressor	1	78	40%	100	0
Water Truck	1	76	40%	125	0

6

Receptor: ***R1***

Results:
1-hour Leq: **82.7**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Grading/Excavation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	60	0
Excavator	1	81	40%	80	0
Crane	1	81	16%	80	0
Welders	1	74	40%	100	0
Excavator	1	81	40%	100	0
Concrete Pump	1	81	20%	125	0
Water Truck	1	76	40%	125	0

Receptor: 7
R1

Results:
1-hour Leq: 79.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Mat Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixers	1	80	50%	60	0
Concrete Pump	1	81	20%	80	0
Crane	1	81	16%	80	0
Tractor/Loader/Backhoe	1	79	40%	100	0
Concrete Pump	3	81	20%	100	0
Welders	1	74	40%	125	0
Cement and Mortar Mixers	1	80	50%	125	0

9

Receptor: *R1*

Results:
1-hour Leq: 79.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Plate Compactor	1	83	20%	60	0
Cement and Mortar Mixer	1	80	50%	80	0
Concrete Saw	1	90	20%	80	0
Crane	1	81	16%	100	0
Fork Lift	1	75	20%	100	0
Concrete Pump	1	81	20%	125	0
Fork Lift	1	75	20%	125	0
Plate Compactor	1	83	20%	150	0
Rough Terrain Forklifts	2	75	20%	150	0
Welders	2	74	40%	150	0
Cement and Mortar Mixer	1	80	50%	150	0
Plate Compactor	2	83	20%	150	0

15

Receptor: ***R1***

Results:

1-hour Leq: 82.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	60	0
Crane	1	81	16%	80	0
Cement and Mortar Mixer	1	80	50%	80	0
Air Compressor	3	78	40%	100	0
Aerial Lift	1	75	20%	100	0
Fork Lift	2	75	20%	125	0
Concrete Pump	1	81	20%	125	0
Plate Compactor	1	83	20%	150	0
Welders	2	74	40%	150	0
Crane	1	81	16%	150	0
Aerial Lift	2	75	20%	150	0
Plate Compactor	1	83	20%	150	0

17

Receptor: **R1**

Results:
1-hour Leq: **83.2**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: Paving

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	60	0
Paving Equipment	1	77	50%	80	0
Roller	1	80	20%	80	0
Skid Steer Loaders	2	79	40%	100	0
Tractor/Loader/Backhoe	2	79	40%	100	0

Receptor: 7
R1

Results:
1-hour Leq: 79.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	10	0
Excavator	1	81	40%	10	0
Rubber Tired Loader	1	79	40%	30	0
Tractor/Loader/Backhoe	1	79	40%	30	0
Air Compressor	1	78	40%	55	0
Water Truck	1	76	40%	55	0

6

Receptor: **R2**

Results:
1-hour Leq: 98.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: Grading/Excavation

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	10	0
Excavator	1	81	40%	10	0
Crane	1	81	16%	30	0
Welders	1	74	40%	30	0
Excavator	1	81	40%	55	0
Concrete Pump	1	81	20%	55	0
Water Truck	1	76	40%	80	0

7

Receptor: **R2**

Results:
1-hour Leq: 94.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Mat Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixers	1	80	50%	10	0
Concrete Pump	1	81	20%	10	0
Crane	1	81	16%	30	0
Tractor/Loader/Backhoe	1	79	40%	30	0
Concrete Pump	3	81	20%	55	0
Welders	1	74	40%	55	0
Cement and Mortar Mixers	1	80	50%	80	0

9

Receptor: **R2**

Results:
1-hour Leq: **93.3**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Plate Compactor	1	83	20%	10	0
Cement and Mortar Mixer	1	80	50%	10	0
Concrete Saw	1	90	20%	30	0
Crane	1	81	16%	30	0
Fork Lift	1	75	20%	55	0
Concrete Pump	1	81	20%	55	0
Fork Lift	1	75	20%	80	0
Plate Compactor	1	83	20%	80	0
Rough Terrain Forklifts	2	75	20%	105	0
Welders	2	74	40%	105	0
Cement and Mortar Mixer	1	80	50%	130	0
Plate Compactor	2	83	20%	130	0

15

Receptor: **R2**

Results:

1-hour Leq: 94.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	10	0
Crane	1	81	16%	10	0
Cement and Mortar Mixer	1	80	50%	30	0
Air Compressor	3	78	40%	30	0
Aerial Lift	1	75	20%	55	0
Fork Lift	2	75	20%	55	0
Concrete Pump	1	81	20%	80	0
Plate Compactor	1	83	20%	80	0
Welders	2	74	40%	105	0
Crane	1	81	16%	105	0
Aerial Lift	2	75	20%	130	0
Plate Compactor	1	83	20%	130	0

17

Receptor: **R2**

Results:

1-hour Leq: 97.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: Paving

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	10	0
Paving Equipment	1	77	50%	10	0
Roller	1	80	20%	30	0
Skid Steer Loaders	2	79	40%	30	0
Tractor/Loader/Backhoe	2	79	40%	55	0

Receptor: 7
R2

Results:
1-hour Leq: 93.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	65	0
Excavator	1	81	40%	65	0
Rubber Tired Loader	1	79	40%	85	0
Tractor/Loader/Backhoe	1	79	40%	85	0
Air Compressor	1	78	40%	105	0
Water Truck	1	76	40%	105	0

6

Receptor: **R3**

Results:
1-hour Leq: 82.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: Grading/Excavation

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	65	0
Excavator	1	81	40%	65	0
Crane	1	81	16%	85	0
Welders	1	74	40%	85	0
Excavator	1	81	40%	105	0
Concrete Pump	1	81	20%	105	0
Water Truck	1	76	40%	125	0

7

Receptor: **R3**

Results:
1-hour Leq: 79.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Mat Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixers	1	80	50%	65	0
Concrete Pump	1	81	20%	65	0
Crane	1	81	16%	85	0
Tractor/Loader/Backhoe	1	79	40%	85	0
Concrete Pump	3	81	20%	105	0
Welders	1	74	40%	105	0
Cement and Mortar Mixers	1	80	50%	125	0

9

Receptor: **R3**

Results:
1-hour Leq: **79.5**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Plate Compactor	1	83	20%	65	0
Cement and Mortar Mixer	1	80	50%	65	0
Concrete Saw	1	90	20%	85	0
Crane	1	81	16%	85	0
Fork Lift	1	75	20%	105	0
Concrete Pump	1	81	20%	105	0
Fork Lift	1	75	20%	125	0
Plate Compactor	1	83	20%	125	0
Rough Terrain Forklifts	2	75	20%	145	0
Welders	2	74	40%	145	0
Cement and Mortar Mixer	1	80	50%	165	0
Plate Compactor	2	83	20%	165	0

15

Receptor: **R3**

Results:

1-hour Leq: 82.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	65	0
Crane	1	81	16%	65	0
Cement and Mortar Mixer	1	80	50%	85	0
Air Compressor	3	78	40%	85	0
Aerial Lift	1	75	20%	105	0
Fork Lift	2	75	20%	105	0
Concrete Pump	1	81	20%	125	0
Plate Compactor	1	83	20%	125	0
Welders	2	74	40%	145	0
Crane	1	81	16%	145	0
Aerial Lift	2	75	20%	165	0
Plate Compactor	1	83	20%	165	0

17

Receptor: **R3**

Results:
1-hour Leq: 83.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: Paving

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	65	0
Paving Equipment	1	77	50%	65	0
Roller	1	80	20%	85	0
Skid Steer Loaders	2	79	40%	85	0
Tractor/Loader/Backhoe	2	79	40%	105	0

Receptor: 7 **R3**

Results: **1-hour Leq:** **79.4**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	265	0
Excavator	1	81	40%	265	0
Rubber Tired Loader	1	79	40%	285	0
Tractor/Loader/Backhoe	1	79	40%	285	0
Air Compressor	1	78	40%	305	0
Water Truck	1	76	40%	305	0

6

Receptor: ***R4***

Results:
1-hour Leq: 70.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: Grading/Excavation

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	265	0
Excavator	1	81	40%	265	0
Crane	1	81	16%	285	0
Welders	1	74	40%	285	0
Excavator	1	81	40%	305	0
Concrete Pump	1	81	20%	305	0
Water Truck	1	76	40%	325	0

7

Receptor: **R4**

Results:
1-hour Leq: 68.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Mat Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixers	1	80	50%	265	0
Concrete Pump	1	81	20%	265	0
Crane	1	81	16%	285	0
Tractor/Loader/Backhoe	1	79	40%	285	0
Concrete Pump	3	81	20%	305	0
Welders	1	74	40%	305	0
Cement and Mortar Mixers	1	80	50%	325	0

9

Receptor: *R4*

Results:
1-hour Leq: 68.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Plate Compactor	1	83	20%	265	0
Cement and Mortar Mixer	1	80	50%	265	0
Concrete Saw	1	90	20%	285	0
Crane	1	81	16%	285	0
Fork Lift	1	75	20%	305	0
Concrete Pump	1	81	20%	305	0
Fork Lift	1	75	20%	325	0
Plate Compactor	1	83	20%	325	0
Rough Terrain Forklifts	2	75	20%	345	0
Welders	2	74	40%	345	0
Cement and Mortar Mixer	1	80	50%	365	0
Plate Compactor	2	83	20%	365	0

15

Receptor: ***R4***

Results:

1-hour Leq: 71.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	265	0
Crane	1	81	16%	265	0
Cement and Mortar Mixer	1	80	50%	285	0
Air Compressor	3	78	40%	285	0
Aerial Lift	1	75	20%	305	0
Fork Lift	2	75	20%	305	0
Concrete Pump	1	81	20%	325	0
Plate Compactor	1	83	20%	325	0
Welders	2	74	40%	345	0
Crane	1	81	16%	345	0
Aerial Lift	2	75	20%	365	0
Plate Compactor	1	83	20%	365	0

17

Receptor: ***R4***

Results:

1-hour Leq: 71.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: Paving

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	265	0
Paving Equipment	1	77	50%	265	0
Roller	1	80	20%	285	0
Skid Steer Loaders	2	79	40%	285	0
Tractor/Loader/Backhoe	2	79	40%	305	0

Receptor: 7 **R4**

Results: **1-hour Leq:** **68.4**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Demolition*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	445	0
Excavator	1	81	40%	445	0
Rubber Tired Loader	1	79	40%	465	0
Tractor/Loader/Backhoe	1	79	40%	465	0
Air Compressor	1	78	40%	485	0
Water Truck	1	76	40%	485	0

6

Receptor: **R5**

Results:
1-hour Leq: 66.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: Grading/Excavation

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Drill Rig	1	84	20%	445	0
Excavator	1	81	40%	445	0
Crane	1	81	16%	465	0
Welders	1	74	40%	465	0
Excavator	1	81	40%	485	0
Concrete Pump	1	81	20%	485	0
Water Truck	1	76	40%	505	0

7

Receptor: **R5**

Results:
1-hour Leq: **64.1**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Mat Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixers	1	80	50%	445	0
Concrete Pump	1	81	20%	445	0
Crane	1	81	16%	465	0
Tractor/Loader/Backhoe	1	79	40%	465	0
Concrete Pump	3	81	20%	485	0
Welders	1	74	40%	485	0
Cement and Mortar Mixers	1	80	50%	505	0

9

Receptor: **R5**

Results:
1-hour Leq: **64.7**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Foundation*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Plate Compactor	1	83	20%	445	0
Cement and Mortar Mixer	1	80	50%	445	0
Concrete Saw	1	90	20%	465	0
Crane	1	81	16%	465	0
Fork Lift	1	75	20%	485	0
Concrete Pump	1	81	20%	485	0
Fork Lift	1	75	20%	505	0
Plate Compactor	1	83	20%	505	0
Rough Terrain Forklifts	2	75	20%	525	0
Welders	2	74	40%	525	0
Cement and Mortar Mixer	1	80	50%	545	0
Plate Compactor	2	83	20%	545	0

15

Receptor: R5

Results:

1-hour Leq: 67.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	445	0
Crane	1	81	16%	445	0
Cement and Mortar Mixer	1	80	50%	465	0
Air Compressor	3	78	40%	465	0
Aerial Lift	1	75	20%	485	0
Fork Lift	2	75	20%	485	0
Concrete Pump	1	81	20%	505	0
Plate Compactor	1	83	20%	505	0
Welders	2	74	40%	525	0
Crane	1	81	16%	525	0
Aerial Lift	2	75	20%	545	0
Plate Compactor	1	83	20%	545	0

17

Receptor: **R5**

Results:

1-hour Leq: 67.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - RESIDENTIAL OPTION

Construction Phase: Paving

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Cement and Mortar Mixer	1	80	50%	445	0
Paving Equipment	1	77	50%	445	0
Roller	1	80	20%	465	0
Skid Steer Loaders	2	79	40%	465	0
Tractor/Loader/Backhoe	2	79	40%	485	0

Receptor: 7
R5

Results:
1-hour Leq: 64.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 1360 Vine Project - OFFICE OPTION

Off-Site Haul Trucks

Phase	Maximum Number of Truck One		Worker Trips		Project Noise Levels		Ambient		Ambient+Project	
	Way Trips (delivery/haul)		Trips during		Vine St.	Sunset Blvd.	Sunset		Sunset	
	Per Day	Per Hour (10-hr day)	Daily Trips	Pk Hr.			Vine St.	Blvd.	Vine St.	Blvd.
1. Demolition (6hrs)	20	4	25	10	56.9	56.9	71.7	71.7	71.8	71.8
2. Grading/Excavation (6hrs)	190	32	75	30	65.6	65.6	71.7	71.7	72.7	72.7
3. Mat Pour	350	35	25	10	65.9	65.9	71.7	71.7	72.7	72.7
4. Foundation	100	10	175	70	61.8	61.8	71.7	71.7	72.1	72.1
5. Building Construction	30	3	500	200	61.9	61.9	71.7	71.7	72.1	72.1
6. Paving	30	3	50	20	56.5	56.5	71.7	71.7	71.8	71.8

Hauls: 6 hours, applicable to Demolition and Grading phases

OFFICE OPTION

1360 Vine Street Project

INPUT: ROADWAYS

Eyestone Environmental						18 February 2019				
Sean Bui						TNM 2.5				

INPUT: ROADWAYS

PROJECT/CONTRACT: 1360 Vine Street Project
 RUN: Construction Trucks - Demo Phase

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points			Coordinates (pavement)			Flow Control			Segment	
Name	Width	Name	No.	X	Y	Z	Control Device	Speed Constraint	Percent Affected	Pvmt Type	On Struct?	
	ft			ft	ft	ft		mph	%			
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average		
		point2	2	1,000.0	0.0	0.00						

OFFICE OPTION

1360 Vine Street Project

INPUT: TRAFFIC FOR LAeq1h Volumes

Eyestone Environmental	27 July 2020											
Sean Bui	TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:	1360 Vine Street Project											
RUN:	Construction Trucks - Demo Phase											
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos									
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Haul Route	point1	1	10	35	0	0	4	35	0	0	0	0
	point2	2										

OFFICE OPTION

1360 Vine Street Project

INPUT: RECEIVERS

Eyestone Environmental Sean Bui	18 February 2019 TNM 2.5
------------------------------------	-----------------------------

INPUT: RECEIVERS

PROJECT/CONTRACT: 1360 Vine Street Project
 RUN: Construction Trucks - Demo Phase

Receiver											
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z		above	Existing	Impact Criteria		
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
At 45 feet from Roadway CL	8	1	500.0	45.0	0.00	4.92	0.00	66	10.0	8.0	Y

OFFICE OPTION

1360 Vine Street Project

RESULTS: SOUND LEVELS

Eyestone Environmental Sean Bui					27 July 2020 TNM 2.5 Calculated with TNM 2.5							
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:					1360 Vine Street Project							
RUN:					Construction Trucks - Demo Phase							
BARRIER DESIGN:					INPUT HEIGHTS							
ATMOSPHERICS:					68 deg F, 50% RH							
Receiver					Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.							
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier		Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal
							Sub'l Inc					
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
At 45 feet from Roadway CL	8	1	0.0	56.9	66	56.9	10	----	56.9	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		1	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

OFFICE OPTION

1360 Vine Street Project

INPUT: ROADWAYS

Eyestone Environmental			18 February 2019
Sean Bui			TNM 2.5

INPUT: ROADWAYS

PROJECT/CONTRACT: 1360 Vine Street Project
 RUN: Construction Trucks - Grading Phase

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points			Flow Control			Segment			
Name	Width	Name	No.	Coordinates (pavement)			Control	Speed	Percent	Pvmt	On
				X	Y	Z	Device	Constraint	Vehicles	Type	Struct?
	ft			ft	ft	ft		mph	Affected		
									%		
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average	
		point2	2	1,000.0	0.0	0.00					

OFFICE OPTION

1360 Vine Street Project

INPUT: TRAFFIC FOR LAeq1h Volumes

Eyestone Environmental	27 July 2020											
Sean Bui	TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:	1360 Vine Street Project											
RUN:	Construction Trucks - Grading Phase											
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Haul Route	point1	1	30	35	0	0	32	35	0	0	0	0
	point2	2										

OFFICE OPTION

1360 Vine Street Project

INPUT: RECEIVERS

Eyestone Environmental Sean Bui	18 February 2019 TNM 2.5
------------------------------------	-----------------------------

INPUT: RECEIVERS

PROJECT/CONTRACT: 1360 Vine Street Project
 RUN: Construction Trucks - Grading Phase

Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z		above	Existing	Impact Criteria			NR
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	Calc.	
			ft	ft	ft	ft	dBA	dBA	dB	dB		
Receptor at 45 feet	8	1	500.0	45.0	0.00	4.92	0.00	66	10.0	8.0	Y	

OFFICE OPTION

1360 Vine Street Project

RESULTS: SOUND LEVELS

Eyestone Environmental Sean Bui						27 July 2020 TNM 2.5 Calculated with TNM 2.5						
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:						1360 Vine Street Project						
RUN:						Construction Trucks - Grading Phase						
BARRIER DESIGN:						INPUT HEIGHTS						
ATMOSPHERICS:						68 deg F, 50% RH						
Receiver						Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.						
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier		Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal
							Sub'l Inc					
			dB	dB	dB	dB			dB	dB	dB	dB
Receptor at 45 feet	8	1	0.0	65.6	66	65.6	10	----	65.6	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		1	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

OFFICE OPTION

1360 Vine Street Project

INPUT: ROADWAYS

Eyestone Environmental				25 August 2020									
Sean Bui				TNM 2.5									
INPUT: ROADWAYS								Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA					
PROJECT/CONTRACT:		1360 Vine Street Project											
RUN:		Const. Trucks - Mat Foundation Phase											
Roadway		Points											
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment			
				X	Y	Z	Control	Speed	Percent	Pvmt	On		
							Device	Constraint	Vehicles	Type	Struct?		
									Affected				
	ft			ft	ft	ft		mph	%				
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average			
		point2	2	1,000.0	0.0	0.00							

OFFICE OPTION

1360 Vine Street Project

INPUT: TRAFFIC FOR LAeq1h Volumes

Eyestone Environmental	25 August 2020											
Sean Bui	TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:	1360 Vine Street Project											
RUN:	Const. Trucks - Mat Foundation Phase											
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Haul Route	point1	1	10	35	0	0	35	35	0	0	0	0
	point2	2										

OFFICE OPTION

1360 Vine Street Project

INPUT: RECEIVERS

Eyestone Environmental						25 August 2020								
Sean Bui						TNM 2.5								

INPUT: RECEIVERS

PROJECT/CONTRACT: 1360 Vine Street Project
 RUN: Const. Trucks - Mat Foundation Phase

Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z		above	Existing	Impact Criteria			NR
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	Calc.	
			ft	ft	ft	ft	dBA	dBA	dB	dB		
Receptor at 45 feet	8	1	500.0	45.0	0.00	4.92	0.00	66	10.0	8.0	Y	

OFFICE OPTION

1360 Vine Street Project

RESULTS: SOUND LEVELS

Eyestone Environmental						25 August 2020							
Sean Bui						TNM 2.5							
						Calculated with TNM 2.5							
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		1360 Vine Street Project											
RUN:		Const. Trucks - Mat Foundation Phase											
BARRIER DESIGN:		INPUT HEIGHTS					Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.						
ATMOSPHERICS:		68 deg F, 50% RH											
Receiver													
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing		With Barrier				
							Calculated	Crit'n	Type Impact	Calculated LAeq1h	Noise Reduction		Calculated minus Goal
				dB	dB	dB	dB	dB		dB	dB	dB	dB
Receptor at 45 feet		8	1	0.0	65.9	66	65.9	10	----	65.9	0.0	8	-8.0
Dwelling Units			# DUs	Noise Reduction									
				Min	Avg	Max							
				dB	dB	dB							
All Selected			1	0.0	0.0	0.0							
All Impacted			0	0.0	0.0	0.0							
All that meet NR Goal			0	0.0	0.0	0.0							

OFFICE OPTION

1360 Vine Street Project

INPUT: ROADWAYS

Eyestone Environmental											
Sean Bui											

18 February 2019
TNM 2.5

INPUT: ROADWAYS

PROJECT/CONTRACT: 1360 Vine Street Project
 RUN: Construction Trucks - Foundation Phase

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points			Coordinates (pavement)			Flow Control			Segment	
Name	Width	Name	No.	X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?	
	ft			ft	ft	ft		mph	%			
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average		
		point2	2	1,000.0	0.0	0.00						

OFFICE OPTION

1360 Vine Street Project

INPUT: TRAFFIC FOR LAeq1h Volumes

Eyestone Environmental	27 July 2020											
Sean Bui	TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:	1360 Vine Street Project											
RUN:	Construction Trucks - Foundation Phase											
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Haul Route	point1	1	70	35	0	0	10	35	0	0	0	0
	point2	2										

OFFICE OPTION

1360 Vine Street Project

INPUT: RECEIVERS

Eyestone Environmental							18 February 2019				
Sean Bui							TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		1360 Vine Street Project									
RUN:		Construction Trucks - Foundation Phase									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z		above	Existing	Impact Criteria		
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	in
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Receptor at 45 feet	8	1	500.0	45.0	0.00	4.92	0.00	66	10.0	8.0	Y

OFFICE OPTION

1360 Vine Street Project

RESULTS: SOUND LEVELS

Eyestone Environmental						27 July 2020							
Sean Bui						TNM 2.5							
						Calculated with TNM 2.5							
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:			1360 Vine Street Project										
RUN:			Construction Trucks - Foundation Phase										
BARRIER DESIGN:			INPUT HEIGHTS			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.							
ATMOSPHERICS:			68 deg F, 50% RH										
Receiver													
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier Calculated LAeq1h	Noise Reduction			
					Calculated	Crit'n	Calculated	Crit'n	Impact		Calculated	Goal	Calculated minus Goal
				dB	dB	dB	dB			dB	dB	dB	dB
Receptor at 45 feet		8	1	0.0	61.8	66	61.8	10	----	61.8	0.0	8	-8.0
Dwelling Units			# DUs	Noise Reduction									
				Min	Avg	Max							
				dB	dB	dB							
All Selected			1	0.0	0.0	0.0							
All Impacted			0	0.0	0.0	0.0							
All that meet NR Goal			0	0.0	0.0	0.0							

OFFICE OPTION

1360 Vine Street Project

INPUT: ROADWAYS

Eyestone Environmental			18 February 2019
Sean Bui			TNM 2.5

INPUT: ROADWAYS

PROJECT/CONTRACT: 1360 Vine Street Project
 RUN: Construction Trucks - Building Phase

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points				Flow Control				Segment	
Name	Width	Name	No.	Coordinates (pavement)			Control	Speed	Percent	Pvmt	On
				X	Y	Z	Device	Constraint	Vehicles	Type	Struct?
	ft			ft	ft	ft		mph	%		
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average	
		point2	2	1,000.0	0.0	0.00					

OFFICE OPTION

1360 Vine Street Project

INPUT: TRAFFIC FOR LAeq1h Volumes

Eyestone Environmental	27 July 2020											
Sean Bui	TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:	1360 Vine Street Project											
RUN:	Construction Trucks - Building Phase											
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Haul Route	point1	1	200	35	0	0	3	35	0	0	0	0
	point2	2										

OFFICE OPTION

1360 Vine Street Project

INPUT: RECEIVERS

Eyestone Environmental							18 February 2019				
Sean Bui							TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		1360 Vine Street Project									
RUN:		Construction Trucks - Building Phase									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z		above	Existing	Impact Criteria		
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	in
			ft	ft	ft	ft	dBA	dBA	dB	dB	Calc.
Receptor at 45 feet	8	1	500.0	45.0	0.00	4.92	0.00	66	10.0	8.0	Y

OFFICE OPTION

1360 Vine Street Project

RESULTS: SOUND LEVELS

Eyestone Environmental Sean Bui						27 July 2020 TNM 2.5 Calculated with TNM 2.5							
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:						1360 Vine Street Project							
RUN:						Construction Trucks - Building Phase							
BARRIER DESIGN:						INPUT HEIGHTS							
ATMOSPHERICS:						68 deg F, 50% RH							
Receiver						Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.							
Receiver													
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier Calculated LAeq1h	Noise Reduction			
					Calculated	Crit'n	Calculated	Crit'n	Impact		Calculated	Goal	Calculated minus Goal
								Sub'l Inc					
				dB	dB	dB	dB		dB	dB	dB	dB	dB
Receptor at 45 feet		8	1	0.0	61.9	66	61.9	10	----	61.9	0.0	8	-8.0
Dwelling Units			# DUs	Noise Reduction									
				Min	Avg	Max							
				dB	dB	dB							
All Selected			1	0.0	0.0	0.0							
All Impacted			0	0.0	0.0	0.0							
All that meet NR Goal			0	0.0	0.0	0.0							

OFFICE OPTION

1360 Vine Street Project

INPUT: ROADWAYS

Eyestone Environmental Sean Bui	18 February 2019 TNM 2.5
------------------------------------	-----------------------------

INPUT: ROADWAYS

PROJECT/CONTRACT: 1360 Vine Street Project
 RUN: Construction Trucks - Paving Phase

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points			Coordinates (pavement)			Flow Control		Segment	
Name	Width	Name	No.	X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average	
		point2	2	1,000.0	0.0	0.00					

OFFICE OPTION

1360 Vine Street Project

INPUT: TRAFFIC FOR LAeq1h Volumes

Eyestone Environmental	27 July 2020											
Sean Bui	TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:	1360 Vine Street Project											
RUN:	Construction Trucks - Paving Phase											
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Haul Route	point1	1	20	35	0	0	3	35	0	0	0	0
	point2	2										

OFFICE OPTION

1360 Vine Street Project

INPUT: RECEIVERS

Eyestone Environmental	18 February 2019
Sean Bui	TNM 2.5

INPUT: RECEIVERS

PROJECT/CONTRACT: 1360 Vine Street Project
RUN: Construction Trucks - Paving Phase

Receiver											
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z		above	Existing	Impact Criteria		
						Ground	LAeq1h	LAeq1h	Sub'l	Goal	in
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Receptor at 45 feet	8	1	500.0	45.0	0.00	4.92	0.00	66	10.0	8.0	Y

OFFICE OPTION

1360 Vine Street Project

RESULTS: SOUND LEVELS

Eyestone Environmental Sean Bui						27 July 2020 TNM 2.5 Calculated with TNM 2.5							
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:						1360 Vine Street Project							
RUN:						Construction Trucks - Paving Phase							
BARRIER DESIGN:						INPUT HEIGHTS							
ATMOSPHERICS:						68 deg F, 50% RH							
Receiver						Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.							
Receiver Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier Calculated LAeq1h	Noise Reduction			
					Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated	Calculated	Goal	Calculated minus Goal
								Sub'l Inc					
				dB	dB	dB	dB		dB	dB	dB	dB	dB
Receptor at 45 feet		8	1	0.0	56.5	66	56.5	10	----	56.5	0.0	8	-8.0
Dwelling Units			# DUs	Noise Reduction									
				Min	Avg	Max							
				dB	dB	dB							
All Selected			1	0.0	0.0	0.0							
All Impacted			0	0.0	0.0	0.0							
All that meet NR Goal			0	0.0	0.0	0.0							

Project: 1360 Vine Project - RESIDENTIAL OPTION

Off-Site Haul Trucks

Phase	Maximum Number of Truck One Way Trips (delivery/haul)		Worker Trips		Project Noise Levels		Ambient		Ambient+Project	
	Per Day	Per Hour (10- hr day)	Daily Trips	Trips during Pk Hr.	Vine St.	Sunset Blvd.	Sunset		Sunset	
							Vine St.	Blvd.	Vine St.	Blvd.
1. Demolition (6hrs)	20	4	25	10	56.9	56.9	71.7	71.7	71.8	71.8
2. Grading/Excavation (6hrs)	170	29	75	30	65.2	65.2	71.7	71.7	72.6	72.6
3. Mat Foundation	350	35	25	10	65.9	65.9	71.7	71.7	72.7	72.7
4. Foundation	100	10	175	70	61.8	61.8	71.7	71.7	72.1	72.1
5. Building Construction	30	3	500	200	61.9	61.9	71.7	71.7	72.1	72.1
6. Paving	30	3	50	20	56.5	56.5	71.7	71.7	71.8	71.8

Hauls: 6 hours, applicable to Demolition and Grading phases

RESIDENTIAL OPTION

INPUT: ROADWAYS

1360 Vine Street Project

Eyestone Environmental											
Sean Bui											

**18 February 2019
TNM 2.5**

INPUT: ROADWAYS

PROJECT/CONTRACT: 1360 Vine Street Project
RUN: Construction Trucks - Demo Phase

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points			Coordinates (pavement)			Flow Control			Segment	
Name	Width	Name	No.	X	Y	Z	Control Device	Speed Constraint	Percent Affected Vehicles	Pvmt Type	On Struct?	
	ft			ft	ft	ft		mph	%			
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average		
		point2	2	1,000.0	0.0	0.00						

RESIDENTIAL OPTION

INPUT: TRAFFIC FOR LAeq1h Volumes

1360 Vine Street Project

Eyestone Environmental	27 July 2020											
Sean Bui	TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:	1360 Vine Street Project											
RUN:	Construction Trucks - Demo Phase											
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Haul Route	point1	1	10	35	0	0	4	35	0	0	0	0
	point2	2										

RESIDENTIAL OPTION

INPUT: RECEIVERS

1360 Vine Street Project

Eyestone Environmental							18 February 2019				
Sean Bui							TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		1360 Vine Street Project									
RUN:		Construction Trucks - Demo Phase									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z		above	Existing	Impact Criteria		
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	in
			ft	ft	ft	ft	dBA	dBA	dB	dB	Calc.
At 45 feet from Roadway CL	8	1	500.0	45.0	0.00	4.92	0.00	66	10.0	8.0	Y

RESIDENTIAL OPTION

RESULTS: SOUND LEVELS

1360 Vine Street Project

Eyestone Environmental												
Sean Bui												
		27 July 2020										
		TNM 2.5										
		Calculated with TNM 2.5										
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		1360 Vine Street Project										
RUN:		Construction Trucks - Demo Phase										
BARRIER DESIGN:		INPUT HEIGHTS										
		Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.										
ATMOSPHERICS:		68 deg F, 50% RH										
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier		Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
At 45 feet from Roadway CL	8	1	0.0	56.9	66	56.9	10	----	56.9	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		1	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

RESIDENTIAL OPTION

INPUT: ROADWAYS

1360 Vine Street Project

Eyestone Environmental											
Sean Bui											

**18 February 2019
TNM 2.5**

INPUT: ROADWAYS

PROJECT/CONTRACT: 1360 Vine Street Project
RUN: Construction Trucks - Grading Phase

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points				Flow Control			Segment	
Name	Width	Name	No.	Coordinates (pavement)		Control	Speed	Percent	Pvmt	On
				X	Y	Z	Device	Constraint	Vehicles	Type
									Affected	Struct?
	ft			ft	ft	ft		mph	%	
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average
		point2	2	1,000.0	0.0	0.00				

RESIDENTIAL OPTION

INPUT: TRAFFIC FOR LAeq1h Volumes

1360 Vine Street Project

Eyestone Environmental	27 July 2020											
Sean Bui	TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:	1360 Vine Street Project											
RUN:	Construction Trucks - Grading Phase											
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Haul Route	point1	1	30	35	0	0	29	35	0	0	0	0
	point2	2										

RESIDENTIAL OPTION

INPUT: RECEIVERS

1360 Vine Street Project

Eyestone Environmental Sean Bui							18 February 2019 TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		1360 Vine Street Project									
RUN:		Construction Trucks - Grading Phase									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z		above	Existing	Impact Criteria		
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	in
			ft	ft	ft	ft	dBA	dBA	dB	dB	Calc.
Receptor at 45 feet	8	1	500.0	45.0	0.00	4.92	0.00	66	10.0	8.0	Y

RESIDENTIAL OPTION

RESULTS: SOUND LEVELS

1360 Vine Street Project

Eyestone Environmental Sean Bui		27 July 2020 TNM 2.5 Calculated with TNM 2.5											
RESULTS: SOUND LEVELS PROJECT/CONTRACT: RUN: BARRIER DESIGN:		1360 Vine Street Project Construction Trucks - Grading Phase INPUT HEIGHTS					Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.						
ATMOSPHERICS:		68 deg F, 50% RH											
Receiver													
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier Calculated	Noise Reduction			
					Calculated	Crit'n	Calculated	Crit'n	Impact	LAeq1h	Calculated	Goal	Calculated minus Goal
				dB	dB	dB	dB	dB		dB	dB	dB	dB
Receptor at 45 feet		8	1	0.0	65.2	66	65.2	10	----	65.2	0.0	8	-8.0
Dwelling Units			# DUs	Noise Reduction									
				Min	Avg	Max							
				dB	dB	dB							
All Selected			1	0.0	0.0	0.0							
All Impacted			0	0.0	0.0	0.0							
All that meet NR Goal			0	0.0	0.0	0.0							

RESIDENTIAL OPTION

INPUT: ROADWAYS

1360 Vine Street Project

Eyestone Environmental			25 August 2020
Sean Bui			TNM 2.5

INPUT: ROADWAYS

PROJECT/CONTRACT: 1360 Vine Street Project
 RUN: Const Trucks - Mat Foundation Phase

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points			Coordinates (pavement)			Flow Control			Segment
Name	Width	Name	No.	X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average	
		point2	2	1,000.0	0.0	0.00					

RESIDENTIAL OPTION

INPUT: TRAFFIC FOR LAeq1h Volumes

1360 Vine Street Project

Eyestone Environmental													
Sean Bui													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	1360 Vine Street Project												
RUN:	Const Trucks - Mat Foundation Phase												
Roadway	Points												
Name	Name	No.	Segment										
			Autos		MTrucks		HTrucks		Buses		Motorcycles		
			V	S	V	S	V	S	V	S	V	S	
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
Haul Route	point1	1	10	35	0	0	35	35	0	0	0	0	
	point2	2											

RESIDENTIAL OPTION

INPUT: RECEIVERS

1360 Vine Street Project

Eyestone Environmental Sean Bui							25 August 2020 TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		1360 Vine Street Project									
RUN:		Const Trucks - Mat Foundation Phase									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Receptor at 45 feet	8	1	500.0	45.0	0.00	4.92	0.00	66	10.0	8.0	Y

RESIDENTIAL OPTION

RESULTS: SOUND LEVELS

1360 Vine Street Project

Eyestone Environmental						25 August 2020						
Sean Bui						TNM 2.5						
						Calculated with TNM 2.5						
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		1360 Vine Street Project										
RUN:		Const Trucks - Mat Foundation Phase										
BARRIER DESIGN:		INPUT HEIGHTS						Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.				
ATMOSPHERICS:		68 deg F, 50% RH										
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction		
										Calculated	Goal	Calculated minus Goal
			dB	dB	dB	dB	dB		dB	dB	dB	dB
Receptor at 45 feet	8	1	0.0	65.9	66	65.9	10	----	65.9	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		1	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

RESIDENTIAL OPTION

INPUT: TRAFFIC FOR LAeq1h Volumes

1360 Vine Street Project

Eyestone Environmental	27 July 2020											
Sean Bui	TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:	1360 Vine Street Project											
RUN:	Construction Trucks - Foundation Phase											
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos									
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Haul Route	point1	1	70	35	0	0	10	35	0	0	0	0
	point2	2										

RESIDENTIAL OPTION

INPUT: RECEIVERS

1360 Vine Street Project

Eyestone Environmental							18 February 2019				
Sean Bui							TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		1360 Vine Street Project									
RUN:		Construction Trucks - Foundation Phase									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z		above	Existing	Impact Criteria		
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	in
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Receptor at 45 feet	8	1	500.0	45.0	0.00	4.92	0.00	66	10.0	8.0	Y

RESIDENTIAL OPTION

RESULTS: SOUND LEVELS

1360 Vine Street Project

Eyestone Environmental Sean Bui			27 July 2020 TNM 2.5 Calculated with TNM 2.5									
RESULTS: SOUND LEVELS PROJECT/CONTRACT: RUN: BARRIER DESIGN:			1360 Vine Street Project Construction Trucks - Foundation Phase INPUT HEIGHTS					Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.				
ATMOSPHERICS:			68 deg F, 50% RH									
Receiver												
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier Calculated LAeq1h	Noise Reduction		
					Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated	Goal	Calculated minus Goal
				dB	dB	dB	dB	dB		dB	dB	dB
Receptor at 45 feet		8	1	0.0	61.8	66	61.8	10	----	61.8	0.0	8
Dwelling Units			# DUs	Noise Reduction								
				Min	Avg	Max						
				dB	dB	dB						
All Selected			1	0.0	0.0	0.0						
All Impacted			0	0.0	0.0	0.0						
All that meet NR Goal			0	0.0	0.0	0.0						

RESIDENTIAL OPTION

INPUT: ROADWAYS

1360 Vine Street Project

Eyestone Environmental												
Sean Bui												

**18 February 2019
TNM 2.5**

INPUT: ROADWAYS

PROJECT/CONTRACT: 1360 Vine Street Project
RUN: Construction Trucks - Building Phase

Average pavement type shall be used unless
a State highway agency substantiates the use
of a different type with the approval of FHWA

Roadway		Points			Coordinates (pavement)			Flow Control		Segment	
Name	Width	Name	No.	X	Y	Z	Control	Speed	Percent	Pvmt	On
							Device	Constraint	Vehicles	Type	Struct?
	ft			ft	ft	ft		mph	Affected		
									%		
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average	
		point2	2	1,000.0	0.0	0.00					

RESIDENTIAL OPTION

INPUT: TRAFFIC FOR LAeq1h Volumes

1360 Vine Street Project

Eyestone Environmental														
Sean Bui														
INPUT: TRAFFIC FOR LAeq1h Volumes														
PROJECT/CONTRACT:	1360 Vine Street Project													
RUN:	Construction Trucks - Building Phase													
Roadway	Points													
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles			
			Autos		V	S	V	S	V	S	V	S	V	S
			V	S	V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Haul Route	point1	1	200	35	0	0	3	35	0	0	0	0	0	0
	point2	2												

RESIDENTIAL OPTION

INPUT: RECEIVERS

1360 Vine Street Project

Eyestone Environmental Sean Bui							18 February 2019 TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		1360 Vine Street Project									
RUN:		Construction Trucks - Building Phase									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Receptor at 45 feet	8	1	500.0	45.0	0.00	4.92	0.00	66	10.0	8.0	Y

RESIDENTIAL OPTION

RESULTS: SOUND LEVELS

1360 Vine Street Project

Eyestone Environmental Sean Bui			27 July 2020 TNM 2.5 Calculated with TNM 2.5									
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:			1360 Vine Street Project									
RUN:			Construction Trucks - Building Phase									
BARRIER DESIGN:			INPUT HEIGHTS									
ATMOSPHERICS:			68 deg F, 50% RH									
Receiver			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.									
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier		Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal
			dB	dB	dB	dB			dB	dB	dB	dB
Receptor at 45 feet	8	1	0.0	61.9	66	61.9	10	----	61.9	0.0	8	-8.0
Dwelling Units			# DUs	Noise Reduction								
			Min	Avg	Max							
			dB	dB	dB							
All Selected		1	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

RESIDENTIAL OPTION

INPUT: TRAFFIC FOR LAeq1h Volumes

1360 Vine Street Project

Eyestone Environmental														
Sean Bui														
INPUT: TRAFFIC FOR LAeq1h Volumes														
PROJECT/CONTRACT:	1360 Vine Street Project													
RUN:	Construction Trucks - Paving Phase													
Roadway	Points													
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles			
			Autos		V	S	V	S	V	S	V	S	V	S
			V	S	V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Haul Route	point1	1	20	35	0	0	3	35	0	0	0	0	0	0
	point2	2												

RESIDENTIAL OPTION

INPUT: RECEIVERS

1360 Vine Street Project

Eyestone Environmental Sean Bui							18 February 2019 TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		1360 Vine Street Project									
RUN:		Construction Trucks - Paving Phase									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z		above	Existing	Impact Criteria		
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	in
			ft	ft	ft	ft	dBA	dBA	dB	dB	Calc.
Receptor at 45 feet	8	1	500.0	45.0	0.00	4.92	0.00	66	10.0	8.0	Y

RESIDENTIAL OPTION

RESULTS: SOUND LEVELS
1360 Vine Street Project

Eyestone Environmental												
Sean Bui												
			27 July 2020									
			TNM 2.5									
			Calculated with TNM 2.5									
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:			1360 Vine Street Project									
RUN:			Construction Trucks - Paving Phase									
BARRIER DESIGN:			INPUT HEIGHTS									
			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.									
ATMOSPHERICS:			68 deg F, 50% RH									
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier		Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal
							Sub'l Inc					
			dB	dB	dB	dB			dB	dB	dB	dB
Receptor at 45 feet	8	1	0.0	56.5	66	56.5	10	----	56.5	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		1	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

RESIDENTIAL OPTION

INPUT: ROADWAYS

1360 Vine

Eyestone Environmental												
Sean Bui												

2 February 2022

TNM 2.5

INPUT: ROADWAYS

PROJECT/CONTRACT: 1360 Vine

RUN: Construction Trucks - Cumulative

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points			Coordinates (pavement)			Flow Control			Segment	
Name	Width	Name	No.	X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?	
	ft			ft	ft	ft		mph	%			
Haul Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	100	Average		
		point2	2	1,000.0	0.0	0.00						

RESIDENTIAL OPTION

INPUT: TRAFFIC FOR LAeq1h Volumes

1360 Vine

Eyestone Environmental				2 February 2022									
Sean Bui				TNM 2.5									
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		1360 Vine											
RUN:		Construction Trucks - Cumulative											
Roadway		Points											
Name		Name		No.		Segment							
						Autos		MTrucks		HTrucks		Buses	
						V S		V S		V S		V S	
						veh/hr mph		veh/hr mph		veh/hr mph		veh/hr mph	
Haul Route		point1		1		30 35		0 0		236 35		0 0	
		point2		2									

RESIDENTIAL OPTION

INPUT: RECEIVERS

1360 Vine

Eyestone Environmental Sean Bui							2 February 2022 TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		1360 Vine									
RUN:		Construction Trucks - Cumulative									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Receptor at 45 feet	8	1	250.0	45.0	0.00	4.92	0.00	66	10.0	8.0	Y

RESIDENTIAL OPTION

RESULTS: SOUND LEVELS

1360 Vine

Eyestone Environmental						2 February 2022							
Sean Bui						TNM 2.5							
						Calculated with TNM 2.5							
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		1360 Vine											
RUN:		Construction Trucks - Cumulative											
BARRIER DESIGN:		INPUT HEIGHTS					Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.						
ATMOSPHERICS:		68 deg F, 50% RH											
Receiver													
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
				dB	dB	dB	dB	dB		dB	dB	dB	dB
Receptor at 45 feet		8	1	0.0	75.0	66	75.0	10	Snd Lvl	75.0	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction										
			Min	Avg	Max								
			dB	dB	dB								
All Selected		1	0.0	0.0	0.0								
All Impacted		1	0.0	0.0	0.0								
All that meet NR Goal		0	0.0	0.0	0.0								

Project: 1360 Vine Project EIR

Construction Vibration Impacts

Reference Levels at 25 feet are based on FTA, 2006 (Transit Noise and Vibration Impact Assessment)

Calculations using FTA procedure with n= 1.5 (for receptors 25 feet or greater)

n= 1.1 (for receptors less than 25 feet, per Caltrans procedure)

ON-SITE CONSTRUCTION ACTIVITIES

Table 1: Construction Equipment Vibration Levels (PPV) - Building Damages

Equipment	Reference Vibration Levels at 25 ft., PPV	Estimated Vibration Levels at nearest off-site building structures (distance in feet), PPV						
		Single-Story Commercial building to the North	Single-Story Commercial Building the South	Single-Story Commercial building to the west	Residential buildings to the east	Residential building to the north	Residential to the south	
		50	60	85	10	70	78	
Large Bulldozer	0.089	0.032	0.024	0.014	0.244	0.019	0.016	
Caisson Drilling	0.089	0.032	0.024	0.014	0.244	0.019	0.016	
Loaded Trucks	0.076	0.027	0.020	0.012	0.208	0.016	0.014	
Jackhammer	0.035	0.012	0.009	0.006	0.096	0.008	0.006	
Small bulldozer	0.003	0.001	0.001	0.001	0.008	0.001	0.001	
Significance Threshold, PPV		0.3	0.2	0.3	0.12	0.12	0.12	

Table 2: Construction Equipment Vibration Levels (VdB) - Human Annoyance

Equipment	Reference Vibration Levels at 25 ft., VdB	Estimated Vibration Levels at Off-Site Receptors (at note distance in feet), VdB						
		R1	R2	R3	R4	R5		
		75	10	70	265	445		
Large Bulldozer	87	73	99	74	56	49		
Caisson Drilling	87	73	99	74	56	49		
Loaded Trucks	86	72	98	73	55	48		
Jackhammer	79	65	91	66	48	41		
Small bulldozer	58	44	70	45	27	20		
Significance Threshold, VdB		72	72	72	72	72		

OFF-SITE CONSTRUCTION HAUL TRUCKS

Table 3: Off-Site Haul Trucks - Building Damage

Equipment	Reference Vibration Levels at 50 ft., PPV	Estimated Vibration Levels at noted distance in feet, PPV					
		20					
Typical road surface	0.00565	0.022					
Significance Threshold, PPV		0.12					

Ref. Levels based on FTA Figure 7-3 (converted from VdB to PPV)

Table 4: Off-Site Haul Trucks - Human Annoyance

Equipment	Reference Vibration Levels at 50 ft., VdB	Estimated Vibration Levels at noted distance in feet, VdB					
		25					
Typical road surface	63	72					
Significance Threshold, VdB		72					

Ref. Levels based on FTA Figure 7-3

Operation Noise Calculations

Project Composite Noise Calculations (CNEL)

Project: 1360 Vine Project
OFFICE OPTION

Receptor	Ambient	Traffic ^a	Mechanical		Loading	Outdoor		Project Composite	Ambient + Project	Increase
R1	58.4	59.9	48.4		25.3	53.5		61.1	62.9	4.5
R2	56.1	41.2	46.5		15.0	51.2		52.8	57.8	1.7
R3	61.5	62.5	43.5		57.0	51.7		63.9	65.9	4.4
R4	72.2	60.5	46.5		19.7	44.1		60.8	72.5	0.3
R5	70.5	55.1	44.2		14.1	47.5		56.1	70.7	0.2

^a - traffic noise levels at each receptor is based on the traffic noise analysis for the roadway segment in front of the receptor.

Receptor	Roadway Segment	Traffic Noise Levels, CNEL			distance to roadway, ft	Existing	Existing + Project	barrier	distance to Center Line	adj. for distance
		Existing	Existing + Project	Project Only						
R1	Afton	56.2	61.5	59.9	20	57.4	62.7	0	30	-1.2
R2	Vine	52.7	53.0	41.2	350	72.0	72.3	10	45	-9.3
R3	De Longpre	62.6	65.6	62.5	20	63.8	66.8	0	30	-1.2
R4	Vine	72.0	72.3	60.5	10	72.0	72.3	0	45	0.0
R5	De Longpre	66.6	66.9	55.1	10	66.6	66.9	0	30	0.0

Outdoor Mechanical Equipment Noise Calculations

Project: 1360 Vine Project
OFFICE OPTION

Hours of Operations

Receptor	Estimated Noise Levels, Leq from SOUNDPLAN		Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
	Leq	CNEL			
			12	3	9
R1	41.7	48.4	41.7	41.7	41.7
R2	39.8	46.5	39.8	39.8	39.8
R3	36.8	43.5	36.8	36.8	36.8
R4	39.8	46.5	39.8	39.8	39.8
R5	37.5	44.2	37.5	37.5	37.5

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	Ambient + ambient (Leq)	Ambient + Project (Leq)
R1	58.4	58.8	0.4	53.4	53.7
R2	56.1	56.5	0.4	49.2	49.7
R3	61.5	61.6	0.1	56.1	56.2
R4	72.2	72.2	0.0	65.4	65.4
R5	70.5	70.5	0.0	62.9	62.9

Loading and Trash Compactor Noise Calculations

Project: 1360 Vine Project
OFFICE OPTION

Receptor	Estimated Noise Levels, Leq from SOUNDPLAN		Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
	Leq	CNEL			
R1	28.1	25.3	22.1	28.1	0.0
R2	17.3	15.0	11.3	17.3	0.0
R3	59.8	57.0	53.8	59.8	0.0
R4	22.4	19.7	16.4	22.4	0.0
R5	16.2	14.1	10.2	16.2	0.0

Receptor	Project CNEL	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	Project Noise, (Leq)	daytime ambient (Leq)	Ambient + Project (Leq)
R1	25.3	58.4	58.4	0.0	28.1	55.0	55.0
R2	15.0	56.1	56.1	0.0	17.4	55.8	55.8
R3	57.0	61.5	62.8	1.3	59.8	59.0	62.4
R4	19.7	72.2	72.2	0.0	22.4	71.7	71.7
R5	14.1	70.5	70.5	0.0	16.3	70.6	70.6

Outdoor Noise Calculations

Project: 1360 Vine Project
OFFICE OPTION

Hours of Operations

Estimated noise levels, Leq (FROM SOUNDPLAN)					Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Sound System	Occupants	Total, Leq	CNEL	12	3	4
R1	48.7	40.8	49.4	53.5	49.4	49.4	45.9
R2	45.8	41.4	47.1	51.2	47.1	47.1	43.6
R3	47.3	36.2	47.6	51.7	47.6	47.6	44.1
R4	39.9	24.8	40.0	44.1	40.0	40.0	36.5
R5	43.4	23.0	43.4	47.5	43.4	43.4	39.9

Receptor	Project (CNEL)	Ambient (CNEL)	Ambient + Project (CNEL)	Increase (CNEL)	Project Noise, (Leq)	Ambient (Leq)	Ambient + Project (Leq)
R1	53.5	58.4	59.6	1.2	49.4	53.4	54.9
R2	51.2	56.1	57.3	1.2	47.1	49.2	51.3
R3	51.7	61.5	61.9	0.4	47.6	56.1	56.7
R4	44.1	72.2	72.2	0.0	40.0	65.4	65.4
R5	47.5	70.5	70.5	0.0	43.4	62.9	62.9

Project Composite Noise Calculations (CNEL)

Project: 1360 Vine Project

RESIDENTIAL OPTION

Receptor	Ambient	Traffic ^a	Mechanical		Loading	Outdoor		Project Composite	Ambient + Project	Increase
R1	58.4	49.6	47.8		30.2	58.5		59.3	61.9	3.5
R2	56.1	39.4	48.2		17.2	55.2		56.1	59.1	3.0
R3	61.5	58.7	49.0		56.4	52.5		61.6	64.5	3.0
R4	72.2	58.7	47.7		20.6	52.0		59.8	72.4	0.2
R5	70.5	53.3	48.6		21.6	55.7		58.2	70.7	0.2

^a - traffic noise levels at each receptor is based on the traffic noise analysis for the roadway segment in front of the receptor.

Receptor	Roadway Segment	Traffic Noise Levels, CNEL			distance to roadway, ft	Existing	Existing + Project	barrier	distance to Center Line	adj. for distance
		Existing	Existing + Project	Project Only						
R1	Afton	56.5	57.3	49.6	20	57.4	58.2	0	45	-0.9
R2	Vine	52.7	52.9	39.4	350	72.0	72.2	10	45	-9.3
R3	De Longpre	62.6	64.1	58.7	20	63.8	65.3	0	30	-1.2
R4	Vine	72.0	72.2	58.7	10	72.0	72.2	0	45	0.0
R5	De Longpre	66.6	66.8	53.3	10	66.6	66.8	0	30	0.0

Outdoor Mechanical Equipment Noise Calculations

Project: 1360 Vine Project

RESIDENTIAL OPTION

Hours of Operations

Receptor	Estimated Noise Levels, Leq from SOUNDPLAN		Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
	Leq	CNEL			
			12	3	9
R1	41.1	47.8	41.1	41.1	41.1
R2	41.5	48.2	41.5	41.5	41.5
R3	42.3	49.0	42.3	42.3	42.3
R4	41.0	47.7	41.0	41.0	41.0
R5	41.9	48.6	41.9	41.9	41.9

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	Ambient + ambient (Leq)	Ambient + Project (Leq)
R1	58.4	58.8	0.4	53.4	53.6
R2	56.1	56.7	0.6	49.2	49.9
R3	61.5	61.7	0.2	56.1	56.3
R4	72.2	72.2	0.0	65.4	65.4
R5	70.5	70.5	0.0	62.9	62.9

Loading and Trash Compactor Noise Calculations

Project: 1360 Vine Project

RESIDENTIAL OPTION

Receptor	Estimated Noise Levels, Leq from SOUNDPLAN		Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
	Leq	CNEL			
R1	33.0	30.2	27.0	33.0	0.0
R2	19.7	17.2	13.7	19.7	0.0
R3	59.2	56.4	53.2	59.2	0.0
R4	23.3	20.6	17.3	23.3	0.0
R5	24.3	21.6	18.3	24.3	0.0

Receptor	Project CNEL	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	Project Noise, (Leq)	daytime ambient (Leq)	Ambient + Project (Leq)
R1	30.2	58.4	58.4	0.0	33.0	55.0	55.0
R2	17.2	56.1	56.1	0.0	19.7	55.8	55.8
R3	56.4	61.5	62.7	1.2	59.2	59.0	62.1
R4	20.6	72.2	72.2	0.0	23.3	71.7	71.7
R5	21.6	70.5	70.5	0.0	24.3	70.6	70.6

Outdoor Noise Calculations

Project: 1360 Vine Project
RESIDENTIAL OPTION

Hours of Operations

Estimated noise levels, Leq (FROM SOUNDPLAN)					Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Sound System	Occupants	Total, Leq	CNEL	12	3	4
R1	53.9	44.5	54.4	58.5	54.4	54.4	50.9
R2	50.9	38.6	51.1	55.2	51.1	51.1	47.6
R3	47.9	38.5	48.4	52.5	48.4	48.4	44.9
R4	47.7	34.1	47.9	52.0	47.9	47.9	44.4
R5	51.5	33.7	51.6	55.7	51.6	51.6	48.1

Receptor	Project (CNEL)	Ambient (CNEL)	Ambient + Project (CNEL)	Increase (CNEL)	Project Noise, (Leq)	Ambient (Leq)	Ambient + Project (Leq)
R1	58.5	58.4	61.5	3.1	54.4	53.4	56.9
R2	55.2	56.1	58.7	2.6	51.1	49.2	53.3
R3	52.5	61.5	62.0	0.5	48.4	56.1	56.8
R4	52.0	72.2	72.2	0.0	47.9	65.4	65.5
R5	55.7	70.5	70.6	0.1	51.6	62.9	63.2

1360 Vine Project - Office Option
Source Levels in dB(A) - Mechanical (Office Option)

3

Name	Source type	Lw dB(A)	
Mechanical (Office Option)	Point	100.0	
Mechanical (Office Option)	Point	100.0	
Mechanical (Office Option)	Point	100.0	
Mechanical (Office Option)	Point	100.0	
Mechanical (Office Option)	Point	100.0	
Mechanical (Office Option)	Point	100.0	
Mechanical (Office Option)	Point	100.0	
Mechanical (Office Option)	Point	100.0	
Mechanical (Office Option)	Point	100.0	
Mechanical (Office Option)	Point	100.0	

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	AES 22801 Crespi St Woodland Hills, CA 91364 USA	1
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**1360 Vine Project - Office Option
Contribution level - Mechanical (Office Option)**

9

Source	Source type	Leq,d dB(A)	
Receiver R1 Ld 41.7 dB(A)			
Mechanical (Office Option)	Point	29.7	
Mechanical (Office Option)	Point	31.8	
Mechanical (Office Option)	Point	33.0	
Mechanical (Office Option)	Point	26.9	
Mechanical (Office Option)	Point	29.7	
Mechanical (Office Option)	Point	32.7	
Mechanical (Office Option)	Point	32.3	
Mechanical (Office Option)	Point	33.2	
Mechanical (Office Option)	Point	32.9	
Mechanical (Office Option)	Point	31.5	
Receiver R2 Ld 39.8 dB(A)			
Mechanical (Office Option)	Point	29.7	
Mechanical (Office Option)	Point	29.7	
Mechanical (Office Option)	Point	29.8	
Mechanical (Office Option)	Point	23.6	
Mechanical (Office Option)	Point	23.5	
Mechanical (Office Option)	Point	32.8	
Mechanical (Office Option)	Point	32.4	
Mechanical (Office Option)	Point	32.3	
Mechanical (Office Option)	Point	26.9	
Mechanical (Office Option)	Point	27.1	
Receiver R3 Ld 36.8 dB(A)			
Mechanical (Office Option)	Point	29.6	
Mechanical (Office Option)	Point	25.1	
Mechanical (Office Option)	Point	25.5	
Mechanical (Office Option)	Point	22.7	
Mechanical (Office Option)	Point	23.2	
Mechanical (Office Option)	Point	28.0	
Mechanical (Office Option)	Point	29.1	
Mechanical (Office Option)	Point	30.2	
Mechanical (Office Option)	Point	21.1	
Mechanical (Office Option)	Point	22.7	
Receiver R4 Ld 39.8 dB(A)			
Mechanical (Office Option)	Point	25.6	
Mechanical (Office Option)	Point	28.7	
Mechanical (Office Option)	Point	32.0	
Mechanical (Office Option)	Point	29.6	
Mechanical (Office Option)	Point	28.9	
Mechanical (Office Option)	Point	26.7	

**1360 Vine Project - Office Option
Contribution level - Mechanical (Office Option)**

9

Source	Source type	Leq,d dB(A)	
Mechanical (Office Option)	Point	28.5	
Mechanical (Office Option)	Point	30.6	
Mechanical (Office Option)	Point	31.8	
Mechanical (Office Option)	Point	31.5	
Receiver R5 Ld 37.5 dB(A)			
Mechanical (Office Option)	Point	22.4	
Mechanical (Office Option)	Point	23.0	
Mechanical (Office Option)	Point	25.0	
Mechanical (Office Option)	Point	31.7	
Mechanical (Office Option)	Point	28.9	
Mechanical (Office Option)	Point	21.2	
Mechanical (Office Option)	Point	22.4	
Mechanical (Office Option)	Point	24.1	
Mechanical (Office Option)	Point	31.4	
Mechanical (Office Option)	Point	28.8	

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1360 Vine Project - Office Option
Source Levels in dB(A) - Loading (Office Option)

3

Name	Source type	Lw dB(A)	
Loading 1 (Office Option)	Point	102.0	
Loading 2 (Office Option)	Point	102.0	

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**1360 Vine Project - Office Option
Contribution level - Loading (Office Option)**

9

Source	Source type	Leq,d dB(A)	
Receiver R1 Ld 28.1 dB(A)			
Loading 2 (Office Option)	Point	27.8	
Loading 1 (Office Option)	Point	15.7	
Receiver R2 Ld 17.3 dB(A)			
Loading 2 (Office Option)	Point	14.4	
Loading 1 (Office Option)	Point	14.2	
Receiver R3 Ld 59.8 dB(A)			
Loading 2 (Office Option)	Point	56.7	
Loading 1 (Office Option)	Point	56.8	
Receiver R4 Ld 22.4 dB(A)			
Loading 2 (Office Option)	Point	10.1	
Loading 1 (Office Option)	Point	22.1	
Receiver R5 Ld 16.2 dB(A)			
Loading 2 (Office Option)	Point	13.6	
Loading 1 (Office Option)	Point	12.8	

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1360 Vine Project - Office Option
Source Levels in dB(A) - People (Office Option)

3

Name	Source type	Lw dB(A)	
People Level 1 Office Option	Area	85.9	
People Level 17 (Office Option)	Area	91.0	

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**1360 Vine Project - Office Option
Contribution level - People (Office Option)**

9

Source	Source type	Leq,d dB(A)	
Receiver R1 Ld 40.8 dB(A)			
People Level 1 Office Option	Area	40.8	
People Level 17 (Office Option)	Area	17.6	
Receiver R2 Ld 41.4 dB(A)			
People Level 1 Office Option	Area	41.4	
People Level 17 (Office Option)	Area	22.0	
Receiver R3 Ld 36.2 dB(A)			
People Level 1 Office Option	Area	35.7	
People Level 17 (Office Option)	Area	26.4	
Receiver R4 Ld 24.8 dB(A)			
People Level 1 Office Option	Area	24.3	
People Level 17 (Office Option)	Area	15.3	
Receiver R5 Ld 23.0 dB(A)			
People Level 1 Office Option	Area	6.6	
People Level 17 (Office Option)	Area	22.9	

**1360 Vine Project - Office Option
Source Levels in dB(A) - Speakers (Office Option)**

3

Name	Source type	Lw dB(A)	
Speaker Level 1 (Office Option)	Point	93.6	
Speaker Level 1 (Office Option)	Point	93.6	
Speaker Level 1 (Office Option)	Point	93.6	
Speaker Level 1 (Office Option)	Point	93.6	
Speaker Level 1 (Office Option)	Point	93.6	
Speaker Level 1 (Office Option)	Point	93.6	
Speakers Level 17 (Office Option)	Point	118.6	
Speakers Level 17 (Office Option)	Point	118.6	
Speakers Level 17 (Office Option)	Point	118.6	
Speakers Level 17 (Office Option)	Point	118.6	
Speakers Level 17 (Office Option)	Point	118.6	
Speakers Level 17 (Office Option)	Point	118.6	

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**1360 Vine Project - Office Option
Contribution level - Speakers (Office Option)**

9

Source	Source type	Leq,d dB(A)	
Receiver R1 Ld 48.7 dB(A)			
Speaker Level 1 (Office Option)	Point	35.7	
Speaker Level 1 (Office Option)	Point	38.3	
Speaker Level 1 (Office Option)	Point	37.6	
Speaker Level 1 (Office Option)	Point	45.7	
Speaker Level 1 (Office Option)	Point	39.0	
Speaker Level 1 (Office Option)	Point	39.3	
Speakers Level 17 (Office Option)	Point	26.0	
Speakers Level 17 (Office Option)	Point	28.6	
Speakers Level 17 (Office Option)	Point	21.9	
Speakers Level 17 (Office Option)	Point	21.1	
Speakers Level 17 (Office Option)	Point	31.9	
Speakers Level 17 (Office Option)	Point	32.7	
Receiver R2 Ld 45.8 dB(A)			
Speaker Level 1 (Office Option)	Point	40.7	
Speaker Level 1 (Office Option)	Point	34.9	
Speaker Level 1 (Office Option)	Point	30.3	
Speaker Level 1 (Office Option)	Point	31.9	
Speaker Level 1 (Office Option)	Point	33.5	
Speaker Level 1 (Office Option)	Point	30.7	
Speakers Level 17 (Office Option)	Point	33.4	
Speakers Level 17 (Office Option)	Point	40.8	
Speakers Level 17 (Office Option)	Point	23.3	
Speakers Level 17 (Office Option)	Point	22.5	
Speakers Level 17 (Office Option)	Point	30.5	
Speakers Level 17 (Office Option)	Point	31.6	
Receiver R3 Ld 47.3 dB(A)			
Speaker Level 1 (Office Option)	Point	26.8	
Speaker Level 1 (Office Option)	Point	25.3	
Speaker Level 1 (Office Option)	Point	25.9	
Speaker Level 1 (Office Option)	Point	32.4	
Speaker Level 1 (Office Option)	Point	28.4	
Speaker Level 1 (Office Option)	Point	33.5	
Speakers Level 17 (Office Option)	Point	38.1	
Speakers Level 17 (Office Option)	Point	39.5	
Speakers Level 17 (Office Option)	Point	35.1	
Speakers Level 17 (Office Option)	Point	34.5	
Speakers Level 17 (Office Option)	Point	40.7	
Speakers Level 17 (Office Option)	Point	41.6	
Receiver R4 Ld 39.9 dB(A)			

**1360 Vine Project - Office Option
Contribution level - Speakers (Office Option)**

9

Source	Source type	Leq,d dB(A)
Speaker Level 1 (Office Option)	Point	4.9
Speaker Level 1 (Office Option)	Point	21.3
Speaker Level 1 (Office Option)	Point	21.6
Speaker Level 1 (Office Option)	Point	11.8
Speaker Level 1 (Office Option)	Point	23.0
Speaker Level 1 (Office Option)	Point	13.6
Speakers Level 17 (Office Option)	Point	37.6
Speakers Level 17 (Office Option)	Point	24.5
Speakers Level 17 (Office Option)	Point	17.0
Speakers Level 17 (Office Option)	Point	17.4
Speakers Level 17 (Office Option)	Point	33.0
Speakers Level 17 (Office Option)	Point	30.3

Receiver R5 Ld 43.4 dB(A)

Speaker Level 1 (Office Option)	Point	-6.3
Speaker Level 1 (Office Option)	Point	-7.1
Speaker Level 1 (Office Option)	Point	-7.0
Speaker Level 1 (Office Option)	Point	-2.6
Speaker Level 1 (Office Option)	Point	4.8
Speaker Level 1 (Office Option)	Point	-1.3
Speakers Level 17 (Office Option)	Point	40.5
Speakers Level 17 (Office Option)	Point	38.3
Speakers Level 17 (Office Option)	Point	28.6
Speakers Level 17 (Office Option)	Point	32.0
Speakers Level 17 (Office Option)	Point	29.5
Speakers Level 17 (Office Option)	Point	29.0

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1360 Vine Project - Residential Option
Source Levels in dB(A) - Mechanical (Residential Option)

3

Name	Source type	Lw dB(A)	
MECHANICAL 1 (Residential Option)	Point	100.0	
MECHANICAL 2 (Residential Option)	Point	100.0	
MECHANICAL 3 (Residential Option)	Point	100.0	
MECHANICAL 4 (Residential Option)	Point	100.0	
MECHANICAL 5 (Residential Option)	Point	100.0	
MECHANICAL 6 (Residential Option)	Point	100.0	
MECHANICAL 7 (Residential Option)	Point	100.0	
MECHANICAL 8 (Residential Option)	Point	100.0	
MECHANICAL 9 (Residential Option)	Point	100.0	
MECHANICAL 10 (Residential Option)	Point	100.0	
MECHANICAL 11 (Residential Option)	Point	100.0	
MECHANICAL 12 (Residential Option)	Point	100.0	

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1360 Vine Project - Residential Option
Assessed contribution level - Mechanical (Residential Option)

9

Source	Ld dB(A)	
Receiver R1 Ld 41.1 dB(A)		
MECHANICAL 1 (Residential Option)	28.2	
MECHANICAL 2 (Residential Option)	28.8	
MECHANICAL 3 (Residential Option)	29.2	
MECHANICAL 4 (Residential Option)	28.8	
MECHANICAL 5 (Residential Option)	30.1	
MECHANICAL 6 (Residential Option)	29.5	
MECHANICAL 7 (Residential Option)	33.9	
MECHANICAL 8 (Residential Option)	29.5	
MECHANICAL 9 (Residential Option)	29.2	
MECHANICAL 10 (Residential Option)	30.5	
MECHANICAL 11 (Residential Option)	28.9	
MECHANICAL 12 (Residential Option)	33.0	
Receiver R2 Ld 41.5 dB(A)		
MECHANICAL 1 (Residential Option)	27.8	
MECHANICAL 2 (Residential Option)	29.6	
MECHANICAL 3 (Residential Option)	29.0	
MECHANICAL 4 (Residential Option)	27.9	
MECHANICAL 5 (Residential Option)	29.3	
MECHANICAL 6 (Residential Option)	32.2	
MECHANICAL 7 (Residential Option)	32.4	
MECHANICAL 8 (Residential Option)	32.2	
MECHANICAL 9 (Residential Option)	32.2	
MECHANICAL 10 (Residential Option)	32.2	
MECHANICAL 11 (Residential Option)	29.5	
MECHANICAL 12 (Residential Option)	29.9	
Receiver R3 Ld 42.3 dB(A)		
MECHANICAL 1 (Residential Option)	32.3	
MECHANICAL 2 (Residential Option)	28.6	
MECHANICAL 3 (Residential Option)	29.1	
MECHANICAL 4 (Residential Option)	29.4	
MECHANICAL 5 (Residential Option)	28.9	
MECHANICAL 6 (Residential Option)	34.4	
MECHANICAL 7 (Residential Option)	32.5	
MECHANICAL 8 (Residential Option)	32.9	
MECHANICAL 9 (Residential Option)	32.6	
MECHANICAL 10 (Residential Option)	31.8	
MECHANICAL 11 (Residential Option)	32.0	
MECHANICAL 12 (Residential Option)	29.2	

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1360 Vine Project - Residential Option
Assessed contribution level - Mechanical (Residential Option)

9

Source	Ld dB(A)	
Receiver R4 Ld 41.0 dB(A)		
MECHANICAL 1 (Residential Option)	28.4	
MECHANICAL 2 (Residential Option)	33.4	
MECHANICAL 3 (Residential Option)	28.2	
MECHANICAL 4 (Residential Option)	28.1	
MECHANICAL 5 (Residential Option)	29.8	
MECHANICAL 6 (Residential Option)	26.4	
MECHANICAL 7 (Residential Option)	33.2	
MECHANICAL 8 (Residential Option)	28.0	
MECHANICAL 9 (Residential Option)	27.2	
MECHANICAL 10 (Residential Option)	30.0	
MECHANICAL 11 (Residential Option)	27.0	
MECHANICAL 12 (Residential Option)	33.4	
Receiver R5 Ld 41.9 dB(A)		
MECHANICAL 1 (Residential Option)	33.4	
MECHANICAL 2 (Residential Option)	33.3	
MECHANICAL 3 (Residential Option)	33.3	
MECHANICAL 4 (Residential Option)	33.4	
MECHANICAL 5 (Residential Option)	33.3	
MECHANICAL 6 (Residential Option)	27.8	
MECHANICAL 7 (Residential Option)	27.5	
MECHANICAL 8 (Residential Option)	27.6	
MECHANICAL 9 (Residential Option)	27.7	
MECHANICAL 10 (Residential Option)	27.5	
MECHANICAL 11 (Residential Option)	29.6	
MECHANICAL 12 (Residential Option)	29.1	

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1360 Vine Project - Residential Option
Source Levels in dB(A) - Loading (Residential Option)

3

Name	Source type	Lw dB(A)	
Loading 1 (Residential Option)	Point	102.0	
Loading 2 (Residential Option)	Point	102.0	

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1360 Vine Project - Residential Option
Assessed contribution level - Loading (Residential Option)

9

Source	Source type	Ld dB(A)	
Receiver R1 FI G Ld 33.0 dB(A)			
Loading 1 (Residential Option)	Point	30.0	
Loading 2 (Residential Option)	Point	29.9	
Receiver R2 FI G Ld 19.7 dB(A)			
Loading 1 (Residential Option)	Point	16.8	
Loading 2 (Residential Option)	Point	16.7	
Receiver R3 FI G Ld 59.2 dB(A)			
Loading 1 (Residential Option)	Point	56.5	
Loading 2 (Residential Option)	Point	56.0	
Receiver R4 FI G Ld 23.3 dB(A)			
Loading 1 (Residential Option)	Point	12.2	
Loading 2 (Residential Option)	Point	23.0	
Receiver R5 FI G Ld 24.3 dB(A)			
Loading 1 (Residential Option)	Point	23.0	
Loading 2 (Residential Option)	Point	18.3	

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1360 Vine Project - Residential Option
Source Levels in dB(A) - People (Residential Option)

3

Name	Source type	Lw dB(A)	
Level 10 People (Residential Option)	Area	95.4	
People Level 1 (Residential Option)	Area	85.3	

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1360 Vine Project - Residential Option
Assessed contribution level - People (Residential Option)

9

Source	Ld dB(A)	
Receiver R1 Ld 44.5 dB(A)		
People Level 1 (Residential Option)	44.2	
Level 10 People (Residential Option)	33.2	
Receiver R2 Ld 38.6 dB(A)		
People Level 1 (Residential Option)	36.6	
Level 10 People (Residential Option)	34.3	
Receiver R3 Ld 38.5 dB(A)		
People Level 1 (Residential Option)	37.7	
Level 10 People (Residential Option)	31.0	
Receiver R4 Ld 34.1 dB(A)		
People Level 1 (Residential Option)	19.7	
Level 10 People (Residential Option)	33.9	
Receiver R5 Ld 33.7 dB(A)		
People Level 1 (Residential Option)	9.4	
Level 10 People (Residential Option)	33.6	

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1360 Vine Project - Residential Option
Source Levels in dB(A) - Speakers (Residential Option)

3

Name	Source type	Lw dB(A)	
Speakers Level 1 (Residential Option)	Point	93.6	
Speakers Level 1 (Residential Option)	Point	93.6	
Speakers Level 1 (Residential Option)	Point	93.6	
Speakers Level 1 (Residential Option)	Point	93.6	
Speakers Level 1 (Residential Option)	Point	93.6	
Speakers Level 1 (Residential Option)	Point	93.6	
Speakers Level 1 (Residential Option)	Point	93.6	
Speakers Level 1 (Residential Option)	Point	93.6	
Speakers Level 1 (Residential Option)	Point	93.6	
Speakers Level 10 (Residential Option)	Point	118.6	
Speakers Level 10 (Residential Option)	Point	118.6	
Speakers Level 10 (Residential Option)	Point	118.6	
Speakers Level 10 (Residential Option)	Point	118.6	
Speakers Level 10 (Residential Option)	Point	118.6	
Speakers Level 10 (Residential Option)	Point	118.6	
Speakers Level 10 (Residential Option)	Point	118.6	

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1360 Vine Project - Residential Option
Assessed contribution level - Speakers (Residential Option)

9

Source	Ld dB(A)	
Receiver R1 Ld 53.9 dB(A)		
Speakers Level 1 (Residential Option)	48.9	
Speakers Level 1 (Residential Option)	34.7	
Speakers Level 1 (Residential Option)	37.8	
Speakers Level 1 (Residential Option)	42.5	
Speakers Level 1 (Residential Option)	31.2	
Speakers Level 1 (Residential Option)	44.3	
Speakers Level 1 (Residential Option)	28.3	
Speakers Level 1 (Residential Option)	46.8	
Speakers Level 10 (Residential Option)	43.7	
Speakers Level 10 (Residential Option)	34.8	
Speakers Level 10 (Residential Option)	41.1	
Speakers Level 10 (Residential Option)	34.3	
Speakers Level 10 (Residential Option)	34.3	
Speakers Level 10 (Residential Option)	43.0	
Receiver R2 Ld 50.9 dB(A)		
Speakers Level 1 (Residential Option)	32.1	
Speakers Level 1 (Residential Option)	35.0	
Speakers Level 1 (Residential Option)	41.4	
Speakers Level 1 (Residential Option)	29.4	
Speakers Level 1 (Residential Option)	37.3	
Speakers Level 1 (Residential Option)	33.1	
Speakers Level 1 (Residential Option)	30.9	
Speakers Level 1 (Residential Option)	10.3	
Speakers Level 10 (Residential Option)	45.5	
Speakers Level 10 (Residential Option)	33.5	
Speakers Level 10 (Residential Option)	46.9	
Speakers Level 10 (Residential Option)	33.2	
Speakers Level 10 (Residential Option)	33.2	
Speakers Level 10 (Residential Option)	36.9	

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1360 Vine Project - Residential Option
Assessed contribution level - Speakers (Residential Option)

9

Source	Ld dB(A)	
Receiver R3 Ld 47.9 dB(A)		
Speakers Level 1 (Residential Option)	38.9	
Speakers Level 1 (Residential Option)	27.3	
Speakers Level 1 (Residential Option)	27.6	
Speakers Level 1 (Residential Option)	30.7	
Speakers Level 1 (Residential Option)	30.8	
Speakers Level 1 (Residential Option)	44.5	
Speakers Level 1 (Residential Option)	36.7	
Speakers Level 1 (Residential Option)	6.6	
Speakers Level 10 (Residential Option)	39.2	
Speakers Level 10 (Residential Option)	33.5	
Speakers Level 10 (Residential Option)	37.8	
Speakers Level 10 (Residential Option)	25.5	
Speakers Level 10 (Residential Option)	25.7	
Speakers Level 10 (Residential Option)	24.6	
Receiver R4 Ld 47.7 dB(A)		
Speakers Level 1 (Residential Option)	17.0	
Speakers Level 1 (Residential Option)	21.1	
Speakers Level 1 (Residential Option)	0.9	
Speakers Level 1 (Residential Option)	27.6	
Speakers Level 1 (Residential Option)	13.7	
Speakers Level 1 (Residential Option)	-0.6	
Speakers Level 1 (Residential Option)	5.1	
Speakers Level 1 (Residential Option)	33.9	
Speakers Level 10 (Residential Option)	40.5	
Speakers Level 10 (Residential Option)	41.7	
Speakers Level 10 (Residential Option)	33.8	
Speakers Level 10 (Residential Option)	38.5	
Speakers Level 10 (Residential Option)	37.9	
Speakers Level 10 (Residential Option)	41.5	

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**1360 Vine Project - Residential Option
Assessed contribution level - Speakers (Residential Option)**

9

Source	Ld dB(A)	
Receiver R5 Ld 51.5 dB(A)		
Speakers Level 1 (Residential Option)	-2.1	
Speakers Level 1 (Residential Option)	11.0	
Speakers Level 1 (Residential Option)	-4.3	
Speakers Level 1 (Residential Option)	9.1	
Speakers Level 1 (Residential Option)	-1.8	
Speakers Level 1 (Residential Option)	0.8	
Speakers Level 1 (Residential Option)	0.4	
Speakers Level 1 (Residential Option)	-3.6	
Speakers Level 10 (Residential Option)	34.2	
Speakers Level 10 (Residential Option)	46.0	
Speakers Level 10 (Residential Option)	34.4	
Speakers Level 10 (Residential Option)	46.6	
Speakers Level 10 (Residential Option)	46.9	
Speakers Level 10 (Residential Option)	22.2	

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Off-Site Traffic Noise Calculations

Project: 1360 Vine Project - RESIDENTIAL OPTION

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

EXISTING CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Vine Street										
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	35	2,163	21,630	10%	0	0	71.7
- Between Sunset Blvd. and De Longpre Ave.	70	10	45	35	2,355	23,550	10%	0	0	72.1
- Between De Longpre Ave. and Fountain Ave.	70	10	45	35	2,332	23,320	10%	0	0	72.0
- Between Fountain Ave. and Santa Monica	70	10	45	35	2,325	23,250	10%	0	0	72.0
Sunset Boulevard										
- Between Ivar Ave. and Vine St.	70	10	45	35	2,558	25,580	10%	0	0	72.4
- Between Vine St. and El Centro Ave.	70	10	45	35	2,712	27,120	10%	0	0	72.7
De Longpre										
- Between Ivar Ave. and Vine St.	40	10	30	30	456	4,560	10%	0	0	66.6
- Between Vine St. and El Centro Ave.	40	10	30	30	238	2,380	10%	0	0	63.8
Fountain Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	30	983	9,830	10%	0	0	70.0
- Between Vine St. and El Centro Ave.	40	10	30	30	973	9,730	10%	0	0	69.9
Homewood Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	25	46	460	10%	0	0	56.9
Afton Place										
- Between Vine St. and El Centro Ave.	40	10	30	25	52	520	10%	0	0	57.4

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations

Project: 1360 Vine Project - RESIDENTIAL OPTION

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

EXISTING + PROJECT CONDITIONS (SCENARIO 1)

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Vine Street										
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	35	2,175	21,750	10%	0	0	71.7
- Between Sunset Blvd. and De Longpre Ave.	70	10	45	35	2,409	24,090	10%	0	0	72.2
- Between De Longpre Ave. and Fountain Ave.	70	10	45	35	2,417	24,170	10%	0	0	72.2
- Between Fountain Ave. and Santa Monica	70	10	45	35	2,354	23,540	10%	0	0	72.1
Sunset Boulevard										
- Between Ivar Ave. and Vine St.	70	10	45	35	2,591	25,910	10%	0	0	72.5
- Between Vine St. and El Centro Ave.	70	10	45	35	2,722	27,220	10%	0	0	72.7
De Longpre										
- Between Ivar Ave. and Vine St.	40	10	30	30	475	4,750	10%	0	0	66.8
- Between Vine St. and El Centro Ave.	40	10	30	30	331	3,310	10%	0	0	65.3
Fountain Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	30	1,036	10,360	10%	0	0	70.2
- Between Vine St. and El Centro Ave.	40	10	30	30	985	9,850	10%	0	0	70.0
Homewood Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	25	47	470	10%	0	0	57.0
Afton Place										
- Between Vine St. and El Centro Ave.	40	10	30	25	63	630	10%	0	0	58.2

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations

Project: 1360 Vine Project - RESIDENTIAL OPTION

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

FUTURE NO PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Vine Street										
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	35	2,592	25,920	10%	0	0	72.5
- Between Sunset Blvd. and De Longpre Ave.	70	10	45	35	2,938	29,380	10%	0	0	73.0
- Between De Longpre Ave. and Fountain Ave.	70	10	45	35	2,910	29,100	10%	0	0	73.0
- Between Fountain Ave. and Santa Monica	70	10	45	35	2,909	29,090	10%	0	0	73.0
Sunset Boulevard										
- Between Ivar Ave. and Vine St.	70	10	45	35	3,851	38,510	10%	0	0	74.2
- Between Vine St. and El Centro Ave.	70	10	45	35	4,182	41,820	10%	0	0	74.6
De Longpre										
- Between Ivar Ave. and Vine St.	40	10	30	30	708	7,080	10%	0	0	68.6
- Between Vine St. and El Centro Ave.	40	10	30	30	257	2,570	10%	0	0	64.2
Fountain Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	30	1,157	11,570	10%	0	0	70.7
- Between Vine St. and El Centro Ave.	40	10	30	30	1,110	11,100	10%	0	0	70.5
Homewood Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	25	132	1,320	10%	0	0	61.5
Afton Place										
- Between Vine St. and El Centro Ave.	40	10	30	25	54	540	10%	0	0	57.6

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations

Project: 1360 Vine Project - RESIDENTIAL OPTION

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

FUTURE + PROJECT CONDITIONS (SCENARIO 1)

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Vine Street										
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	35	2,604	26,040	10%	0	0	72.5
- Between Sunset Blvd. and De Longpre Ave.	70	10	45	35	2,992	29,920	10%	0	0	73.1
- Between De Longpre Ave. and Fountain Ave.	70	10	45	35	2,995	29,950	10%	0	0	73.1
- Between Fountain Ave. and Santa Monica	70	10	45	35	2,938	29,380	10%	0	0	73.0
Sunset Boulevard										
- Between Ivar Ave. and Vine St.	70	10	45	35	3,884	38,840	10%	0	0	74.2
- Between Vine St. and El Centro Ave.	70	10	45	35	4,192	41,920	10%	0	0	74.6
De Longpre										
- Between Ivar Ave. and Vine St.	40	10	30	30	727	7,270	10%	0	0	68.7
- Between Vine St. and El Centro Ave.	40	10	30	30	350	3,500	10%	0	0	65.5
Fountain Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	30	1,210	12,100	10%	0	0	70.9
- Between Vine St. and El Centro Ave.	40	10	30	30	1,122	11,220	10%	0	0	70.6
Homewood Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	25	134	1,340	10%	0	0	61.5
Afton Place										
- Between Vine St. and El Centro Ave.	40	10	30	25	65	650	10%	0	0	58.4

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations

Project: 1360 Vine Project - OFFICE OPTION

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

EXISTING CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Vine Street										
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	35	2,163	21,630	10%	0	0	71.7
- Between Sunset Blvd. and De Longpre Ave.	70	10	45	35	2,355	23,550	10%	0	0	72.1
- Between De Longpre Ave. and Fountain Ave.	70	10	45	35	2,332	23,320	10%	0	0	72.0
- Between Fountain Ave. and Santa Monica	70	10	45	35	2,325	23,250	10%	0	0	72.0
Sunset Boulevard										
- Between Ivar Ave. and Vine St.	70	10	45	35	2,558	25,580	10%	0	0	72.4
- Between Vine St. and El Centro Ave.	70	10	45	35	2,712	27,120	10%	0	0	72.7
De Longpre										
- Between Ivar Ave. and Vine St.	40	10	30	30	456	4,560	10%	0	0	66.6
- Between Vine St. and El Centro Ave.	40	10	30	30	238	2,380	10%	0	0	63.8
Fountain Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	30	983	9,830	10%	0	0	70.0
- Between Vine St. and El Centro Ave.	40	10	30	30	973	9,730	10%	0	0	69.9
Homewood Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	25	46	460	10%	0	0	56.9
Afton Place										
- Between Vine St. and El Centro Ave.	40	10	30	25	52	520	10%	0	0	57.4

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations

Project: 1360 Vine Project - OFFICE OPTION

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

EXISTING + PROJECT CONDITIONS (SCENARIO 1)

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Vine Street										
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	35	2,184	21,840	10%	0	0	71.7
- Between Sunset Blvd. and De Longpre Ave.	70	10	45	35	2,495	24,950	10%	0	0	72.3
- Between De Longpre Ave. and Fountain Ave.	70	10	45	35	2,447	24,470	10%	0	0	72.2
- Between Fountain Ave. and Santa Monica	70	10	45	35	2,391	23,910	10%	0	0	72.1
Sunset Boulevard										
- Between Ivar Ave. and Vine St.	70	10	45	35	2,617	26,170	10%	0	0	72.5
- Between Vine St. and El Centro Ave.	70	10	45	35	2,772	27,720	10%	0	0	72.8
De Longpre										
- Between Ivar Ave. and Vine St.	40	10	30	30	485	4,850	10%	0	0	66.9
- Between Vine St. and El Centro Ave.	40	10	30	30	440	4,400	10%	0	0	66.5
Fountain Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	30	1,057	10,570	10%	0	0	70.3
- Between Vine St. and El Centro Ave.	40	10	30	30	984	9,840	10%	0	0	70.0
Homewood Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	25	46	460	10%	0	0	56.9
Afton Place										
- Between Vine St. and El Centro Ave.	40	10	30	25	58	580	10%	0	0	57.9

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations

Project: 1360 Vine Project - OFFICE OPTION

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

EXISTING + PROJECT CONDITIONS (SCENARIO 2)

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Vine Street										
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	35	2,188	21,880	10%	0	0	71.8
- Between Sunset Blvd. and De Longpre Ave.	70	10	45	35	2,505	25,050	10%	0	0	72.3
- Between De Longpre Ave. and Fountain Ave.	70	10	45	35	2,435	24,350	10%	0	0	72.2
- Between Fountain Ave. and Santa Monica	70	10	45	35	2,389	23,890	10%	0	0	72.1
Sunset Boulevard										
- Between Ivar Ave. and Vine St.	70	10	45	35	2,620	26,200	10%	0	0	72.5
- Between Vine St. and El Centro Ave.	70	10	45	35	2,776	27,760	10%	0	0	72.8
De Longpre										
- Between Ivar Ave. and Vine St.	40	10	30	30	483	4,830	10%	0	0	66.9
- Between Vine St. and El Centro Ave.	40	10	30	30	472	4,720	10%	0	0	66.8
Fountain Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	30	1,058	10,580	10%	0	0	70.3
- Between Vine St. and El Centro Ave.	40	10	30	30	974	9,740	10%	0	0	69.9
Homewood Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	25	46	460	10%	0	0	56.9
Afton Place										
- Between Vine St. and El Centro Ave.	40	10	30	25	135	1,350	10%	0	0	61.6

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations

Project: 1360 Vine Project - OFFICE OPTION

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

EXISTING + PROJECT CONDITIONS (SCENARIO 3)

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Vine Street										
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	35	2,188	21,880	10%	0	0	71.8
- Between Sunset Blvd. and De Longpre Ave.	70	10	45	35	2,505	25,050	10%	0	0	72.3
- Between De Longpre Ave. and Fountain Ave.	70	10	45	35	2,454	24,540	10%	0	0	72.3
- Between Fountain Ave. and Santa Monica	70	10	45	35	2,430	24,300	10%	0	0	72.2
Sunset Boulevard										
- Between Ivar Ave. and Vine St.	70	10	45	35	2,620	26,200	10%	0	0	72.5
- Between Vine St. and El Centro Ave.	70	10	45	35	2,776	27,760	10%	0	0	72.8
De Longpre										
- Between Ivar Ave. and Vine St.	40	10	30	30	483	4,830	10%	0	0	66.9
- Between Vine St. and El Centro Ave.	40	10	30	30	472	4,720	10%	0	0	66.8
Fountain Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	30	1,058	10,580	10%	0	0	70.3
- Between Vine St. and El Centro Ave.	40	10	30	30	992	9,920	10%	0	0	70.0
Homewood Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	25	46	460	10%	0	0	56.9
Afton Place										
- Between Vine St. and El Centro Ave.	40	10	30	25	177	1,770	10%	0	0	62.7

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations

Project: 1360 Vine Project - OFFICE OPTION

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

FUTURE NO PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Vine Street										
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	35	2,592	25,920	10%	0	0	72.5
- Between Sunset Blvd. and De Longpre Ave.	70	10	45	35	2,938	29,380	10%	0	0	73.0
- Between De Longpre Ave. and Fountain Ave.	70	10	45	35	2,910	29,100	10%	0	0	73.0
- Between Fountain Ave. and Santa Monica	70	10	45	35	2,909	29,090	10%	0	0	73.0
Sunset Boulevard										
- Between Ivar Ave. and Vine St.	70	10	45	35	3,851	38,510	10%	0	0	74.2
- Between Vine St. and El Centro Ave.	70	10	45	35	4,182	41,820	10%	0	0	74.6
De Longpre										
- Between Ivar Ave. and Vine St.	40	10	30	30	708	7,080	10%	0	0	68.6
- Between Vine St. and El Centro Ave.	40	10	30	30	257	2,570	10%	0	0	64.2
Fountain Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	30	1,157	11,570	10%	0	0	70.7
- Between Vine St. and El Centro Ave.	40	10	30	30	1,110	11,100	10%	0	0	70.5
Homewood Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	25	132	1,320	10%	0	0	61.5
Afton Place										
- Between Vine St. and El Centro Ave.	40	10	30	25	54	540	10%	0	0	57.6

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations

Project: 1360 Vine Project - OFFICE OPTION

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

FUTURE + PROJECT CONDITIONS (SCENARIO 1)

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Vine Street										
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	35	2,613	26,130	10%	0	0	72.5
- Between Sunset Blvd. and De Longpre Ave.	70	10	45	35	3,079	30,790	10%	0	0	73.2
- Between De Longpre Ave. and Fountain Ave.	70	10	45	35	3,025	30,250	10%	0	0	73.2
- Between Fountain Ave. and Santa Monica	70	10	45	35	2,975	29,750	10%	0	0	73.1
Sunset Boulevard										
- Between Ivar Ave. and Vine St.	70	10	45	35	3,910	39,100	10%	0	0	74.3
- Between Vine St. and El Centro Ave.	70	10	45	35	4,243	42,430	10%	0	0	74.6
De Longpre										
- Between Ivar Ave. and Vine St.	40	10	30	30	737	7,370	10%	0	0	68.7
- Between Vine St. and El Centro Ave.	40	10	30	30	459	4,590	10%	0	0	66.7
Fountain Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	30	1,231	12,310	10%	0	0	71.0
- Between Vine St. and El Centro Ave.	40	10	30	30	1,121	11,210	10%	0	0	70.6
Homewood Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	25	133	1,330	10%	0	0	61.5
Afton Place										
- Between Vine St. and El Centro Ave.	40	10	30	25	60	600	10%	0	0	58.0

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations

Project: 1360 Vine Project - OFFICE OPTION

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

FUTURE + PROJECT CONDITIONS (SCENARIO 2)

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Vine Street										
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	35	2,616	26,160	10%	0	0	72.5
- Between Sunset Blvd. and De Longpre Ave.	70	10	45	35	3,088	30,880	10%	0	0	73.3
- Between De Longpre Ave. and Fountain Ave.	70	10	45	35	3,012	30,120	10%	0	0	73.1
- Between Fountain Ave. and Santa Monica	70	10	45	35	2,973	29,730	10%	0	0	73.1
Sunset Boulevard										
- Between Ivar Ave. and Vine St.	70	10	45	35	3,913	39,130	10%	0	0	74.3
- Between Vine St. and El Centro Ave.	70	10	45	35	4,246	42,460	10%	0	0	74.6
De Longpre										
- Between Ivar Ave. and Vine St.	40	10	30	30	735	7,350	10%	0	0	68.7
- Between Vine St. and El Centro Ave.	40	10	30	30	491	4,910	10%	0	0	67.0
Fountain Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	30	1,232	12,320	10%	0	0	71.0
- Between Vine St. and El Centro Ave.	40	10	30	30	1,111	11,110	10%	0	0	70.5
Homewood Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	25	132	1,320	10%	0	0	61.5
Afton Place										
- Between Vine St. and El Centro Ave.	40	10	30	25	137	1,370	10%	0	0	61.6

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations

Project: 1360 Vine Project - OFFICE OPTION

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to
ADT factor
10%

FUTURE + PROJECT CONDITIONS (SCENARIO 3)

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Traffic Volume ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Vine Street										
- Between Hollywood Blvd. and Sunset Blvd.	70	10	45	35	2,616	26,160	10%	0	0	72.5
- Between Sunset Blvd. and De Longpre Ave.	70	10	45	35	3,088	30,880	10%	0	0	73.3
- Between De Longpre Ave. and Fountain Ave.	70	10	45	35	3,032	30,320	10%	0	0	73.2
- Between Fountain Ave. and Santa Monica	70	10	45	35	3,014	30,140	10%	0	0	73.1
Sunset Boulevard										
- Between Ivar Ave. and Vine St.	70	10	45	35	3,913	39,130	10%	0	0	74.3
- Between Vine St. and El Centro Ave.	70	10	45	35	4,246	42,460	10%	0	0	74.6
De Longpre										
- Between Ivar Ave. and Vine St.	40	10	30	30	735	7,350	10%	0	0	68.7
- Between Vine St. and El Centro Ave.	40	10	30	30	491	4,910	10%	0	0	67.0
Fountain Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	30	1,232	12,320	10%	0	0	71.0
- Between Vine St. and El Centro Ave.	40	10	30	30	1,130	11,300	10%	0	0	70.6
Homewood Avenue										
- Between Ivar Ave. and Vine St.	40	10	30	25	132	1,320	10%	0	0	61.5
Afton Place										
- Between Vine St. and El Centro Ave.	40	10	30	25	179	1,790	10%	0	0	62.8

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.