

## **Appendix H**

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### Noise Calculation Worksheets

## **Sunset & Western Project**

# **Noise Calculations Worksheets**

Provided by Acoustical Engineering Services

# Ambient Noise Measurements

Location: R1 -  
Date: 1/11/2018

Time	Overload	Leq	Lmax	L10	L90
10:20:25 AM	No	56.5	65.4	58.1	54.6
10:21:25 AM	No	61.2	65.7	64.6	56.3
10:22:25 AM	No	54.3	60.6	57.3	49.5
10:23:25 AM	No	57.3	66.8	62.1	50.5
10:24:25 AM	No	57.7	66.5	62.1	51.9
10:26:25 AM	No	55.1	61.7	57.8	51.3
10:27:25 AM	No	57.4	69.7	60.3	48.4
10:28:25 AM	No	54.5	62	58.5	49.1
10:29:25 AM	No	54.1	66	56.7	47.6
10:30:25 AM	No	56.2	64.5	61	49.3
10:31:25 AM	No	55.9	64.8	60	50.7
10:32:25 AM	No	68.6	80.9	73.4	50.7
10:33:25 AM	No	54.6	66.1	55.9	47.9
10:34:25 AM	No	57.1	63.1	60.5	52.9
		<b>59.6</b>			

Time	Overload	Leq	Lmax	L10	L90
10:03:57 PM	No	56.3	65.7	57.6	54.1
10:04:57 PM	No	57.5	64.7	60.1	54.2
10:05:57 PM	No	56	59.5	57.4	54.5
10:06:57 PM	No	55.5	57.8	56.4	54.4
10:07:57 PM	No	56.8	62.1	58.4	55.1
10:08:57 PM	No	57.6	61.7	60.1	55.7
10:09:57 PM	No	61	70.2	66.5	54.3
10:10:57 PM	No	55.4	58.4	56.8	54.2
10:11:57 PM	No	55.6	59.7	56.2	54.9
10:12:57 PM	No	57.1	61	59.1	55.2
10:13:57 PM	No	56.4	59.6	57.2	55.4
10:14:57 PM	No	62.1	68.8	66.5	54.2
10:15:57 PM	No	55.4	57	56.2	54.5
10:16:57 PM	No	57	61.8	58	55.6
10:17:57 PM	No	57	62.6	58.5	55.5
		<b>57.6</b>			

Location: R2 -  
Date: 1/11/2018

Time	Overload	Leq	Lmax	L10	L90
10:39:41 AM	No	53.5	63.6	56.9	48.3
10:40:41 AM	No	56.7	64.5	61.4	49.3
10:41:41 AM	No	52.2	59.8	53.7	48.1
10:42:41 AM	No	62.7	76.6	64.9	52.1
10:43:41 AM	No	51.8	56.4	54	48.4
10:45:41 AM	No	53.7	60.6	57.6	48
10:46:41 AM	No	54.2	62.4	55	51.9
10:47:41 AM	No	52.4	59.5	54.6	47.9
10:48:41 AM	No	52.8	58	55.8	48.3
10:49:41 AM	No	53.2	58.4	55.4	47.9
10:50:41 AM	No	54.2	59.1	57.9	48.6
10:51:41 AM	No	59	69.2	61.5	50.9
10:52:41 AM	No	58.1	72.8	59.4	50.6
10:53:41 AM	No	52.2	58.4	54.8	46.8

**56.1**

Time	Overload	Leq	Lmax	L10	L90
10:21:36 PM	No	54.9	57.9	56.6	52.9
10:22:36 PM	No	63.2	69.2	66.3	58.6
10:23:36 PM	No	63.3	69.6	68.6	57.1
10:24:36 PM	No	61.6	66.4	63.4	58.9
10:25:36 PM	No	56	63	58.3	50.7
10:26:36 PM	No	53	56.3	54.8	50.3
10:27:36 PM	No	54.5	60.2	57.1	51.2
10:28:36 PM	No	56.3	62	58.5	52.2
10:29:36 PM	No	54.6	62.3	56.3	50.7
10:30:36 PM	No	52.6	57	55.6	50.1
10:31:36 PM	No	57.8	67.6	61.8	50.3
10:32:36 PM	No	59	66.8	62	51.5
10:33:36 PM	No	56.1	62.8	59.7	52.5
10:34:36 PM	No	55.7	61.9	58.8	52
10:35:36 PM	No	54.8	60.7	56.2	52.8

**58.4**

Location: R3  
Date: 1/11/2018

Time	Overload	Leq	Lmax	L10	L90
10:59:09 AM	No	68.9	75.8	72.6	61.7
11:00:09 AM	No	66.7	72.2	68.8	62.8
11:01:09 AM	No	69.3	76.1	73.6	59.5
11:02:09 AM	No	65.2	70.7	69.1	58.7
11:03:09 AM	No	66.3	71.5	69.8	59.8
11:05:09 AM	No	65.1	71.6	68.4	58.3
11:06:09 AM	No	64.6	69.4	67	61.5
11:07:09 AM	No	71.9	79.1	76.5	59.7
11:08:09 AM	No	66.3	70.3	69.5	59.2
11:09:09 AM	No	66.4	73.6	69.7	61
11:10:09 AM	No	68.4	75.3	72.6	60.4
11:11:09 AM	No	65.4	74.7	68.5	58.8
11:12:09 AM	No	68.1	75.4	69.9	63.7
11:13:09 AM	No	68.8	73.8	71.9	63
		<b>67.8</b>			

Time	Overload	Leq	Lmax	L10	L90
10:39:25 PM	No	62.8	66.9	65.6	56.5
10:40:25 PM	No	65.3	72.3	69.5	57.1
10:41:25 PM	No	67.5	72.3	70.5	55.7
10:42:25 PM	No	65.4	72	69.5	59.6
10:43:25 PM	No	65.6	70.7	69.5	59.9
10:44:25 PM	No	66.8	72	70.3	56.1
10:45:25 PM	No	65.7	70.7	69.1	57.5
10:46:25 PM	No	67	72.6	70.3	59.6
10:47:25 PM	No	66.5	72	69.9	56.3
10:48:25 PM	No	63.1	70.1	67.7	56.4
10:49:25 PM	No	65.5	73.8	69.5	56.6
10:50:25 PM	No	65.4	69.3	68.7	59.4
10:51:25 PM	No	67.4	79.4	70.2	57.3
10:52:25 PM	No	65.5	71.5	69.9	58.8
10:53:25 PM	No	67.2	72.7	70.4	60
		<b>66.0</b>			

Location: R4  
Date: 1/11/2018

Time	Overload	Leq	Lmax	L10	L90
12:10:24 PM	No	72.4	85.6	74.2	60.2
12:11:24 PM	No	65.9	71.1	69.3	58.6
12:12:24 PM	No	61.3	66.4	64.8	57
12:13:24 PM	No	58	63.1	61.5	53.2
12:14:24 PM	No	58	66.4	62.8	51.5
12:16:24 PM	No	60.9	68.6	66.2	52.4
12:17:24 PM	No	57.5	64.9	61.9	51.4
12:18:24 PM	No	59.1	70.7	61.5	50.3
12:19:24 PM	No	59.7	70	64.4	52.3
12:20:24 PM	No	60.6	67.2	65	52.4
12:21:24 PM	No	60.5	71.1	62.8	52.2
12:22:24 PM	No	53.6	59.2	55.1	51.3
12:23:24 PM	No	57	65.8	58.8	52.8
12:24:24 PM	No	55	61.1	56.7	52.2

**63.2**

Time	Overload	Leq	Lmax	L10	L90
11:20:24 PM	No	61.3	73.6	62.6	51.5
11:21:24 PM	No	51.8	55	53.3	50.8
11:22:24 PM	No	54.2	59.9	58	50.9
11:23:24 PM	No	63.4	69.4	67.8	54.1
11:24:24 PM	No	53.9	58.5	54.5	52.7
11:25:24 PM	No	54	56.6	55.4	52.3
11:26:24 PM	No	54.5	59.7	56.4	52.7
11:27:24 PM	No	53	57.3	54.7	51.3
11:28:24 PM	No	53.9	59.3	54.8	52.5
11:29:24 PM	No	56.3	63.6	60.1	52.7
11:30:24 PM	No	53.4	56.1	55	52.5
11:31:24 PM	No	55.7	65.1	57.8	53
11:32:24 PM	No	52.8	55.9	54.1	51.4
11:33:24 PM	No	53.2	55.4	54.5	52.2
11:34:24 PM	No	52.8	55	53.7	52.1

**56.6**

Location: R5  
Date: 1/11/2018

Time	Overload	Leq	Lmax	L10	L90
11:46:56 AM	No	69.5	80.5	72.6	51.4
11:47:56 AM	No	53.8	59	57	50.7
11:48:56 AM	No	51.5	60.3	52.3	49.7
11:49:56 AM	No	69	81.1	71.7	50.7
11:50:56 AM	No	51.8	59.2	54.7	48.6
11:51:56 AM	No	57.9	64.3	62.1	53.2
11:52:56 AM	No	60.3	69.9	63.3	50.7
11:53:56 AM	No	58.2	70.2	59	50.7
11:54:56 AM	No	53.3	58.6	56.8	50
11:55:56 AM	No	56.6	65.5	58.8	50.9
11:56:56 AM	No	61	66.4	65	54.3
11:57:56 AM	No	57.1	64.5	60.8	52
11:58:56 AM	No	59.4	67.9	62.8	51.2
11:59:56 AM	No	54	60.3	57.1	49.3
12:00:56 PM	No	51.7	56.1	53.2	50.1
		<b>61.9</b>			

Time	Overload	Leq	Lmax	L10	L90
11:02:06 PM	No	55.8	63.4	58.1	52.5
11:03:06 PM	No	54.8	63.4	57.4	51.7
11:04:06 PM	No	57.1	62.7	60.5	52.7
11:05:06 PM	No	55.9	61.9	59	53.4
11:06:06 PM	No	55.6	63.5	59.7	51.6
11:07:06 PM	No	55.9	61.2	59.5	51.9
11:08:06 PM	No	56.9	63	60.1	53.9
11:09:06 PM	No	63	70.8	68.5	52.9
11:10:06 PM	No	53	57.3	54.5	51.7
11:11:06 PM	No	52.5	54.6	53.6	51.5
11:12:06 PM	No	53.3	63.5	54.4	51.8
11:13:06 PM	No	58	71.1	56.6	51.5
11:14:06 PM	No	52.1	54.9	53.3	51.1
11:15:06 PM	No	55.1	65	56	51.5
11:16:06 PM	No	53.6	59	55.3	52.3
		<b>56.5</b>			



# **Construction Noise & Vibration Calculations**

**Project: Sunset & Western Project**

**Construction Phase: *Demolition***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Concrete Saw	1	90	20%	60	0
Excavator	1	81	40%	80	0
Rubber Tired Loader	1	79	40%	80	0
Skid Steer Loader	1	79	40%	100	0
Excavator	1	81	40%	100	0
Generator	1	81	50%	125	0
Water Truck	1	82	10%	125	0

7

**Receptor:** ***R1***

**Results:**  
**1-hour Leq: 83.1**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Shoring/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
Rubber Tired Loader	1	79	40%	80	0
Crane	1	81	16%	100	0
Welders	1	74	40%	100	0
Bore/Drill Rig	1	84	20%	125	0
Excavator	1	81	40%	125	0
Concrete Pump	1	81	20%	150	0
Generator	1	81	50%	150	0
Water Truck	1	82	10%	150	0

10

**Receptor:** ***R1***

**Results:**

**1-hour Leq: 80.1**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Matt Foundation***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Plate Compactor	1	83	20%	60	0
Crane	1	81	16%	80	0
Concrete Pump	1	81	20%	80	0
Concrete Pump	1	81	20%	100	0
Fork Lift	1	75	20%	100	0
Plate Compactor	1	83	20%	125	0
Fork Lift	1	75	20%	125	0
Plate Compactor	1	83	20%	150	0
Fork Lift	1	75	20%	150	0
Plate Compactor	1	83	20%	150	0
Generator	1	81	50%	150	0

11

**Receptor:** ***R1***

**Results:**  
**1-hour Leq: 78.9**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Building Construction***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Concrete Saw	1	90	20%	60	0
Crane	1	81	16%	80	0
Cement and Mortar Mixer	1	80	50%	80	0
Air Compressor	1	78	40%	100	0
Aerial Lift	1	75	20%	100	0
Fork Lift	1	75	20%	125	0
Air Compressor	1	78	40%	125	0
Tractor/Loader/Backhoe	1	79	40%	150	0
Welders	2	74	40%	150	0
Crane	1	81	16%	150	0
Aerial Lift	1	75	20%	150	0
Fork Lift	1	75	20%	150	0
Air Compressor	1	78	40%	150	0
Aerial Lift	1	75	20%	150	0
Fork Lift	1	75	20%	150	0

16

**Receptor: *R1***

**Results:**

**1-hour Leq: 82.9**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: Building Finishing**

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Air Compressor	1	78	40%	60	0
Aerial Lift	1	75	20%	80	0
Air Compressor	1	78	40%	80	0
Aerial Lift	1	75	20%	100	0
Air Compressor	1	78	40%	100	0
Aerial Lift	1	75	20%	125	0
Air Compressor	1	78	40%	125	0
Aerial Lift	1	75	20%	150	0

8

**Receptor:** ***R1***

**Results:**  
**1-hour Leq: 76.4**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**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
Plate Compactor	1	83	20%	60	0
Paving Equipment	1	77	50%	80	0

**Receptor:** <sup>2</sup>  
**R1**

**Results:**  
**1-hour Leq: 75.7**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Demolition***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Concrete Saw	1	90	20%	270	0
Excavator	1	81	40%	270	0
Rubber Tired Loader	1	79	40%	290	0
Skid Steer Loader	1	79	40%	290	0
Excavator	1	81	40%	315	0
Generator	1	81	50%	315	0
Water Truck	1	82	10%	340	0

**Receptor:** 7  
**R2**

**Results:**  
**1-hour Leq:** **71.4**

Source for Ref. Noise Levels: FHWA RCNM, 2006



**Project: Sunset & Western Project**

**Construction Phase: *Shoring/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%	270	0
Excavator	1	81	40%	270	0
Rubber Tired Loader	1	79	40%	290	0
Crane	1	81	16%	290	0
Welders	1	74	40%	315	0
Bore/Drill Rig	1	84	20%	315	0
Excavator	1	81	40%	340	0
Concrete Pump	1	81	20%	340	0
Generator	1	81	50%	365	0
Water Truck	1	82	10%	365	0

10

**Receptor:** ***R2***

**Results:**

**1-hour Leq: 69.8**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Matt Foundation***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Plate Compactor	1	83	20%	270	0
Crane	1	81	16%	270	0
Concrete Pump	1	81	20%	290	0
Concrete Pump	1	81	20%	290	0
Fork Lift	1	75	20%	315	0
Plate Compactor	1	83	20%	315	0
Fork Lift	1	75	20%	340	0
Plate Compactor	1	83	20%	340	0
Fork Lift	1	75	20%	365	0
Plate Compactor	1	83	20%	365	0
Generator	1	81	50%	390	0

11

**Receptor:** ***R2***

**Results:**  
**1-hour Leq: 68.8**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Building Construction***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Concrete Saw	1	90	20%	270	0
Crane	1	81	16%	270	0
Cement and Mortar Mixer	1	80	50%	290	0
Air Compressor	1	78	40%	290	0
Aerial Lift	1	75	20%	315	0
Fork Lift	1	75	20%	315	0
Air Compressor	1	78	40%	340	0
Tractor/Loader/Backhoe	1	79	40%	340	0
Welders	2	74	40%	365	0
Crane	1	81	16%	365	0
Aerial Lift	1	75	20%	390	0
Fork Lift	1	75	20%	390	0
Air Compressor	1	78	40%	390	0
Aerial Lift	1	75	20%	390	0
Fork Lift	1	75	20%	390	0

16

**Receptor: R2**

**Results:**

**1-hour Leq: 71.1**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: Building Finishing**

**Equipment**

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	270	0
Aerial Lift	1	75	20%	270	0
Air Compressor	1	78	40%	290	0
Aerial Lift	1	75	20%	290	0
Air Compressor	1	78	40%	315	0
Aerial Lift	1	75	20%	315	0
Air Compressor	1	78	40%	340	0
Aerial Lift	1	75	20%	340	0

8

**Receptor:** **R2**

**Results:**  
**1-hour Leq: 65.4**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**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
Plate Compactor	1	83	20%	270	0
Paving Equipment	1	77	50%	270	0

Receptor: <sup>2</sup>  
**R2**

Results:  
**1-hour Leq: 63.5**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Demolition***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Concrete Saw	1	90	20%	100	0
Excavator	1	81	40%	100	0
Rubber Tired Loader	1	79	40%	120	0
Skid Steer Loader	1	79	40%	120	0
Excavator	1	81	40%	140	0
Generator	1	81	50%	140	0
Water Truck	1	82	10%	160	0

7

**Receptor:** ***R3***

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

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Shoring/Excavation***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Bore/Drill Rig	1	84	20%	100	0
Excavator	1	81	40%	100	0
Rubber Tired Loader	1	79	40%	120	0
Crane	1	81	16%	120	0
Welders	1	74	40%	140	0
Bore/Drill Rig	1	84	20%	140	0
Excavator	1	81	40%	160	0
Concrete Pump	1	81	20%	160	0
Generator	1	81	50%	180	0
Water Truck	1	82	10%	180	0

10

**Receptor:** ***R3***

**Results:**

**1-hour Leq: 77.4**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Matt Foundation***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Plate Compactor	1	83	20%	100	0
Crane	1	81	16%	100	0
Concrete Pump	1	81	20%	120	0
Concrete Pump	1	81	20%	120	0
Fork Lift	1	75	20%	140	0
Plate Compactor	1	83	20%	140	0
Fork Lift	1	75	20%	160	0
Plate Compactor	1	83	20%	160	0
Fork Lift	1	75	20%	180	0
Plate Compactor	1	83	20%	180	0
Generator	1	81	50%	200	0

11

**Receptor: *R3***

**Results:**

**1-hour Leq: 76.2**

Source for Ref. Noise Levels: FHWA RCNM, 2006



**Project: Sunset & Western Project**

**Construction Phase: *Building Construction***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Concrete Saw	1	90	20%	100	0
Crane	1	81	16%	100	0
Cement and Mortar Mixer	1	80	50%	120	0
Air Compressor	1	78	40%	120	0
Aerial Lift	1	75	20%	140	0
Fork Lift	1	75	20%	140	0
Air Compressor	1	78	40%	160	0
Tractor/Loader/Backhoe	1	79	40%	160	0
Welders	2	74	40%	180	0
Crane	1	81	16%	180	0
Aerial Lift	1	75	20%	200	0
Fork Lift	1	75	20%	200	0
Air Compressor	1	78	40%	200	0
Aerial Lift	1	75	20%	200	0
Fork Lift	1	75	20%	200	0

16

**Receptor: R3**

**Results:**

**1-hour Leq: 79.1**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: Building Finishing**

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Air Compressor	1	78	40%	100	0
Aerial Lift	1	75	20%	100	0
Air Compressor	1	78	40%	120	0
Aerial Lift	1	75	20%	120	0
Air Compressor	1	78	40%	140	0
Aerial Lift	1	75	20%	140	0
Air Compressor	1	78	40%	160	0
Aerial Lift	1	75	20%	160	0

8

**Receptor:** **R3**

**Results:**  
**1-hour Leq: 73.1**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**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
Plate Compactor	1	83	20%	100	0
Paving Equipment	1	77	50%	100	0

**Receptor:** <sup>2</sup> **R3**

**Results:**  
**1-hour Leq: 72.1**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Demolition***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Concrete Saw	1	90	20%	395	0
Excavator	1	81	40%	395	0
Rubber Tired Loader	1	79	40%	415	0
Skid Steer Loader	1	79	40%	415	0
Excavator	1	81	40%	435	0
Generator	1	81	50%	435	0
Water Truck	1	82	10%	455	0

7

**Receptor:** ***R4***

**Results:**  
**1-hour Leq: 68.2**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Shoring/Excavation***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Bore/Drill Rig	1	84	20%	395	0
Excavator	1	81	40%	395	0
Rubber Tired Loader	1	79	40%	415	0
Crane	1	81	16%	415	0
Welders	1	74	40%	435	0
Bore/Drill Rig	1	84	20%	435	0
Excavator	1	81	40%	455	0
Concrete Pump	1	81	20%	455	0
Generator	1	81	50%	475	0
Water Truck	1	82	10%	475	0

10

**Receptor:** ***R4***

**Results:**

**1-hour Leq: 66.9**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Matt 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%	395	0
Crane	1	81	16%	395	0
Concrete Pump	1	81	20%	415	0
Concrete Pump	1	81	20%	415	0
Fork Lift	1	75	20%	435	0
Plate Compactor	1	83	20%	435	0
Fork Lift	1	75	20%	455	0
Plate Compactor	1	83	20%	455	0
Fork Lift	1	75	20%	475	0
Plate Compactor	1	83	20%	475	0
Generator	1	81	50%	495	0

11

**Receptor:** ***R4***

**Results:**  
**1-hour Leq: 66.0**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Building Construction***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Concrete Saw	1	90	20%	395	0
Crane	1	81	16%	395	0
Cement and Mortar Mixer	1	80	50%	415	0
Air Compressor	1	78	40%	415	0
Aerial Lift	1	75	20%	435	0
Fork Lift	1	75	20%	435	0
Air Compressor	1	78	40%	455	0
Tractor/Loader/Backhoe	1	79	40%	455	0
Welders	2	74	40%	475	0
Crane	1	81	16%	475	0
Aerial Lift	1	75	20%	495	0
Fork Lift	1	75	20%	495	0
Air Compressor	1	78	40%	515	0
Aerial Lift	1	75	20%	515	0
Fork Lift	1	75	20%	515	0

16

**Receptor: *R4***

**Results:**

**1-hour Leq: 68.1**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: Building Finishing**

**Equipment**

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	395	0
Aerial Lift	1	75	20%	395	0
Air Compressor	1	78	40%	415	0
Aerial Lift	1	75	20%	415	0
Air Compressor	1	78	40%	435	0
Aerial Lift	1	75	20%	435	0
Air Compressor	1	78	40%	455	0
Aerial Lift	1	75	20%	455	0

8

**Receptor:** ***R4***

**Results:**

**1-hour Leq: 62.5**

Source for Ref. Noise Levels: FHWA RCNM, 2006



**Project: Sunset & Western Project**

**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
Plate Compactor	1	83	20%	395	0
Paving Equipment	1	77	50%	395	0

**Receptor:** <sup>2</sup> **R4**

**Results:**  
**1-hour Leq: 60.2**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Demolition***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Concrete Saw	1	90	20%	145	5
Excavator	1	81	40%	145	5
Rubber Tired Loader	1	79	40%	165	5
Skid Steer Loader	1	79	40%	165	5
Excavator	1	81	40%	185	5
Generator	1	81	50%	185	5
Water Truck	1	82	10%	205	5

7

**Receptor:** ***R5***

**Results:**

**1-hour Leq:      71.5**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Shoring/Excavation***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Bore/Drill Rig	1	84	20%	145	5
Excavator	1	81	40%	145	5
Rubber Tired Loader	1	79	40%	165	5
Crane	1	81	16%	165	5
Welders	1	74	40%	185	5
Bore/Drill Rig	1	84	20%	185	5
Excavator	1	81	40%	205	5
Concrete Pump	1	81	20%	205	5
Generator	1	81	50%	225	5
Water Truck	1	82	10%	225	5

10

**Receptor:** ***R5***

**Results:**

**1-hour Leq: 69.7**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Matt Foundation***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Plate Compactor	1	83	20%	145	5
Crane	1	81	16%	145	5
Concrete Pump	1	81	20%	165	5
Concrete Pump	1	81	20%	165	5
Fork Lift	1	75	20%	185	5
Plate Compactor	1	83	20%	185	5
Fork Lift	1	75	20%	205	5
Plate Compactor	1	83	20%	205	5
Fork Lift	1	75	20%	225	5
Plate Compactor	1	83	20%	225	5
Generator	1	81	50%	245	5

11

**Receptor: *R5***

**Results:**

**1-hour Leq: 68.6**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: *Building Construction***

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Concrete Saw	1	90	20%	145	5
Crane	1	81	16%	145	5
Cement and Mortar Mixer	1	80	50%	165	5
Air Compressor	1	78	40%	165	5
Aerial Lift	1	75	20%	185	5
Fork Lift	1	75	20%	185	5
Air Compressor	1	78	40%	205	5
Tractor/Loader/Backhoe	1	79	40%	205	5
Welders	2	74	40%	225	5
Crane	1	81	16%	225	5
Aerial Lift	1	75	20%	245	5
Fork Lift	1	75	20%	245	5
Air Compressor	1	78	40%	265	5
Aerial Lift	1	75	20%	265	5
Fork Lift	1	75	20%	265	5

16

**Receptor: R5**

**Results:**

**1-hour Leq: 71.2**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**Construction Phase: Building Finishing**

**Equipment**

<b>Description</b>	<b>No. of Equip.</b>	<b>Reference Noise Level at 50ft, Lmax</b>	<b>Acoustical Usage Factor</b>	<b>Distance to Receptor, ft</b>	<b>Estimated Noise Shielding, dBA</b>
Air Compressor	1	78	40%	145	5
Aerial Lift	1	75	20%	145	5
Air Compressor	1	78	40%	165	5
Aerial Lift	1	75	20%	165	5
Air Compressor	1	78	40%	185	5
Aerial Lift	1	75	20%	185	5
Air Compressor	1	78	40%	205	5
Aerial Lift	1	75	20%	205	5

8

**Receptor:** **R5**

**Results:**  
**1-hour Leq: 65.3**

Source for Ref. Noise Levels: FHWA RCNM, 2006

**Project: Sunset & Western Project**

**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
Plate Compactor	1	83	20%	145	5
Paving Equipment	1	77	50%	145	5

Receptor: <sup>2</sup>  
**R5**

Results:  
**1-hour Leq: 63.9**

Source for Ref. Noise Levels: FHWA RCNM, 2006

## Project: Sunset & Western Project

### Off-Site Haul Trucks

Phase	Maximum Number of Truck One Way Trips (delivery/haul)		Worker Trips		Estimated Noise Levels, dBA Leq		
	Per Day	Per Hour (8- hr day)	Trips Per Day	Trips during Pk Hr.	Western Ave.	Sunset Blvd.	
1. Demolition	10	2	100	40	56.6	56.6	
2. Grading/Excavation	228	29	62.5	25	65.2	65.2	
3. Matt Foundation (continuous concrete pour)	400	50	100	40	67.5	67.5	
4. Foundation to Grade	110	14	100	40	62.5	62.5	
5. Building Construction (structure, shell and exterior)	110	14	100	40	62.5	62.5	
6. Building Construction (finishing)	40	5	1000	400	64.7	64.7	
7. Paving	4	1	20	8	52.0	52.0	
Ambient, dBA					67.8	67.8	
Significance Criteria, dBA					72.8	72.8	
				Project + Ambient		Increase over Ambient	
				Western Ave.	Sunset Blvd.	Western Ave.	Sunset Blvd.
1. Demolition				68.1	68.1	0.3	0.3
2. Grading/Excavation				69.7	69.7	1.9	1.9
3. Matt Foundation (continuous concrete pour)				70.7	70.7	2.9	2.9
4. Foundation to Grade				68.9	68.9	1.1	1.1
5. Building Construction (structure, shell and exterior)				68.9	68.9	1.1	1.1
6. Building Construction (finishing)				69.5	69.5	1.7	1.7
7. Paving				67.9	67.9	0.1	0.1
				Max	2.9	2.9	



**INPUT: ROADWAYS**
**Sunset & Western**

Eyestone Environmental					21 April 2020						
Sean Bui					TNM 2.5						
INPUT: ROADWAYS											
PROJECT/CONTRACT:	Sunset & Western										
RUN:	Construction Trucks - Demo 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					

**INPUT: TRAFFIC FOR LAeq1h Volumes**
**Sunset & Western**

Eyestone Environmental													
Sean Bui													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	Sunset & Western												
RUN:	Construction Trucks - Demo 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	40	35	0	0	2	35	0	0	0	0	
	point2	2											

**INPUT: RECEIVERS****Sunset & Western**

Eyestone Environmental												
Sean Bui												
INPUT: RECEIVERS												
PROJECT/CONTRACT:	Sunset & Western											
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		NR	in	
						Ground	L <sub>Aeq</sub> 1h	L <sub>Aeq</sub> 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	

**RESULTS: SOUND LEVELS**
**Sunset & Western**

Eyestone Environmental												
Sean Bui												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:												
RUN:												
BARRIER DESIGN:												
ATMOSPHERICS:												
Receiver												
Name												
No.												
#DUs												
Existing												
LAeq1h												
No Barrier												
LAeq1h												
Calculated												
Crit'n												
Increase over existing												
Calculated												
Crit'n												
Sub'l Inc												
Type												
Impact												
Calculated												
LAeq1h												
Noise Reduction												
Calculated												
Goal												
Calculated												
minus												
Goal												
dBA												
dB												
dB												
Receptor at 45 feet												
8												
1												
0.0												
56.6												
66												
56.6												
10												
----												
56.6												
0.0												
8												
-8.0												
Dwelling Units												
# DUs												
Noise Reduction												
Min												
Avg												
Max												
dB												
dB												
dB												
All Selected												
1												
0.0												
All Impacted												
0												
0.0												
All that meet NR Goal												
0												
0.0												
0.0												

### INPUT: ROADWAYS

## Sunset & Western

Eyestone Environmental											
Sean Bui											
INPUT: ROADWAYS											
PROJECT/CONTRACT:	Sunset & Western										
RUN:	Construction Trucks - Grading Phase										
Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control				
				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					

**INPUT: TRAFFIC FOR LAeq1h Volumes**
**Sunset & Western**

Eyestone Environmental													
Sean Bui													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	Sunset & Western												
RUN:	Construction Trucks - Grading 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	25	35	0	0	29	35	0	0	0	0	
	point2	2											

**INPUT: RECEIVERS**
**Sunset & Western**

Eyestone Environmental												
Sean Bui												
INPUT: RECEIVERS												
PROJECT/CONTRACT:	Sunset & Western											
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	in	
						Ground	L <sub>Aeq</sub> 1h	L <sub>Aeq</sub> 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	

**RESULTS: SOUND LEVELS**
**Sunset & Western**

Eyestone Environmental													
Sean Bui													
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT:</b>			<b>Sunset &amp; Western</b>										
<b>RUN:</b>			<b>Construction Trucks - Grading Phase</b>										
<b>BARRIER DESIGN:</b>			<b>INPUT HEIGHTS</b>										
<b>ATMOSPHERICS:</b>			<b>68 deg F, 50% RH</b>										
<b>Receiver</b>													
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing LAeq1h</b>	<b>No Barrier LAeq1h Calculated</b>	<b>Crit'n</b>	<b>Increase over existing Calculated</b>	<b>Crit'n Sub'l Inc</b>	<b>Type Impact</b>	<b>With Barrier Calculated LAeq1h</b>	<b>Noise Reduction Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
Receptor at 45 feet	8	1	0.0	65.2	66	65.2	10	----	65.2	0.0	8	-8.0	
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>										
			<b>Min</b>	<b>Avg</b>	<b>Max</b>								
			<b>dB</b>	<b>dB</b>	<b>dB</b>								
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								



### INPUT: ROADWAYS

## Sunset & Western

Eyestone Environmental											
Sean Bui											
INPUT: ROADWAYS											
PROJECT/CONTRACT:	Sunset & Western										
RUN:	Construction Trucks - Mat Foundation										
Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control				
				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					

**INPUT: TRAFFIC FOR LAeq1h Volumes**
**Sunset & Western**

Eyestone Environmental													
Sean Bui													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	Sunset & Western												
RUN:	Construction Trucks - Mat Foundation												
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	40	35	0	0	50	35	0	0	0	0	
	point2	2											

**INPUT: RECEIVERS**
**Sunset & Western**

Eyestone Environmental												
Sean Bui												
INPUT: RECEIVERS												
PROJECT/CONTRACT:	Sunset & Western											
RUN:	Construction Trucks - Mat Foundation											
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z	above	Existing	Impact Criteria		NR	in	
						Ground	L <sub>Aeq</sub> 1h	L <sub>Aeq</sub> 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	

**RESULTS: SOUND LEVELS**
**Sunset & Western**

Eyestone Environmental												
Sean Bui												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:												
RUN:												
BARRIER DESIGN:												
ATMOSPHERICS:												
Receiver												
Name												
No. #DUs Existing LAeq1h No Barrier LAeq1h Crit'n Increase over existing Type Calculated Noise Reduction Goal Calculated												
Calculated Sub'l Inc Impact LAeq1h Calculated Goal minus												
dB dBA dBA dBA dB dB dBA dB dB dB dB												
Receptor at 45 feet 8 1 0.0 67.5 66 67.5 10 Snd Lvl 67.5 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 1 0.0 0.0 0.0												
All that meet NR Goal 0 0.0 0.0 0.0												

**INPUT: ROADWAYS**
**Sunset & Western**

Eyestone Environmental					21 April 2020						
Sean Bui					TNM 2.5						
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:		Sunset & Western									
RUN:		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					

**INPUT: TRAFFIC FOR LAeq1h Volumes**
**Sunset & Western**

Eyestone Environmental													
Sean Bui													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	Sunset & Western												
RUN:	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	40	35	0	0	14	35	0	0	0	0	
	point2	2											

**INPUT: RECEIVERS**

**Sunset & Western**

Eyestone Environmental												
Sean Bui												
INPUT: RECEIVERS												
PROJECT/CONTRACT:	Sunset & Western											
RUN:	Foundation Phase											
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z	above	Existing	Impact Criteria		NR	in	
						Ground	L <sub>Aeq</sub> 1h	L <sub>Aeq</sub> 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	

**RESULTS: SOUND LEVELS**
**Sunset & Western**

Eyestone Environmental												
Sean Bui												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:												
RUN:												
BARRIER DESIGN:												
ATMOSPHERICS:												
Receiver												
Name												
No. #DUs Existing LAeq1h No Barrier LAeq1h Crit'n Increase over existing Type Calculated Noise Reduction												
Calculated Crit'n Sub'l Inc Impact LAeq1h Calculated Goal Calculated												
minus Goal												
dBA dBA dBA dB dB dBA dB dB dB												
Receptor at 45 feet	8	1	0.0	62.5	66	62.5	10	----	62.5	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							



**INPUT: ROADWAYS**
**Sunset & Western**

Eyestone Environmental					21 April 2020						
Sean Bui					TNM 2.5						
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:		Sunset & Western									
RUN:		Building Construction 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					

**INPUT: TRAFFIC FOR LAeq1h Volumes**
**Sunset & Western**

Eyestone Environmental													
Sean Bui													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	Sunset & Western												
RUN:	Building Construction 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	40	35	0	0	14	35	0	0	0	0	
	point2	2											

**INPUT: RECEIVERS**

**Sunset & Western**

Eyestone Environmental												
Sean Bui												
INPUT: RECEIVERS												
PROJECT/CONTRACT:	Sunset & Western											
RUN:	Building Construction Phase											
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z	above	Existing	Impact Criteria		NR	in	
						Ground	L <sub>Aeq</sub> 1h	L <sub>Aeq</sub> 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	

**RESULTS: SOUND LEVELS**
**Sunset & Western**

Eyestone Environmental												
Sean Bui												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:												
RUN:												
BARRIER DESIGN:												
ATMOSPHERICS:												
Receiver												
Name												
No. #DUs Existing LAeq1h No Barrier LAeq1h Crit'n Increase over existing Type Calculated Noise Reduction												
Calculated Crit'n Sub'l Inc Impact LAeq1h Calculated Goal Calculated												
minus Goal												
dBA dBA dBA dB dB dBA dB dB dB												
Receptor at 45 feet	8	1	0.0	62.5	66	62.5	10	----	62.5	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							

**INPUT: ROADWAYS**
**Sunset & Western**

Eyestone Environmental					21 April 2020						
Sean Bui					TNM 2.5						
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:		Sunset & Western									
RUN:		Building Construction (Finishing) 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					

**INPUT: TRAFFIC FOR LAeq1h Volumes**
**Sunset & Western**

Eyestone Environmental													
Sean Bui													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	Sunset & Western												
RUN:	Building Construction (Finishing) 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	400	35	0	0	5	35	0	0	0	0	
	point2	2											

**INPUT: RECEIVERS****Sunset & Western**

Eyestone Environmental												
Sean Bui												
INPUT: RECEIVERS												
PROJECT/CONTRACT:	Sunset & Western											
RUN:	Building Construction (Finishing) Phase											
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z	above	Existing	Impact Criteria		NR	in	
						Ground	L <sub>Aeq</sub> 1h	L <sub>Aeq</sub> 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	

**RESULTS: SOUND LEVELS**
**Sunset & Western**

Eyestone Environmental												
Sean Bui												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:												
RUN:												
BARRIER DESIGN:												
ATMOSPHERICS:												
Receiver												
Name												
No. #DUs Existing LAeq1h No Barrier LAeq1h Crit'n Increase over existing Type Calculated Noise Reduction Goal Calculated												
Calculated Sub'l Inc Impact LAeq1h Calculated Goal minus												
dB dBA dBA dB dB dB dB dBA dB dB dB dB												
Receptor at 45 feet 8 1 0.0 64.7 66 64.7 10 ---- 64.7 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												



**INPUT: ROADWAYS**

## Sunset & Western

Eyestone Environmental											
Sean Bui											
INPUT: ROADWAYS											
PROJECT/CONTRACT:	Sunset & Western										
RUN:	Construction Trucks - Paving Phase										
Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control				
				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					

**INPUT: TRAFFIC FOR LAeq1h Volumes**
**Sunset & Western**

Eyestone Environmental													
Sean Bui													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	Sunset & Western												
RUN:	Construction Trucks - Paving 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	8	35	0	0	1	35	0	0	0	0	
	point2	2											

**INPUT: RECEIVERS****Sunset & Western**

Eyestone Environmental												
Sean Bui												
INPUT: RECEIVERS												
PROJECT/CONTRACT:	Sunset & Western											
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		NR	in	
						Ground	L <sub>Aeq</sub> 1h	L <sub>Aeq</sub> 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	

**RESULTS: SOUND LEVELS**
**Sunset & Western**

Eyestone Environmental												
Sean Bui												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:												
RUN:												
BARRIER DESIGN:												
ATMOSPHERICS:												
Receiver												
Name												
No. #DUs Existing LAeq1h No Barrier LAeq1h Crit'n Increase over existing Type Calculated Noise Reduction												
Calculated Crit'n Sub'l Inc Impact LAeq1h Calculated Goal Calculated												
minus Goal												
dBA dBA dBA dB dB dBA dB dB dB												
Receptor at 45 feet	8	1	0.0	52.0	66	52.0	10	----	52.0	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		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

## Project: Sunset & Western 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						
		Hotel/ Commercial building to the North	Commercial building to the South	Commercial building to the west	Residential buildings to the east			
		100	5	90	60			
Large Bulldozer	0.089	0.011	0.523	0.013	0.024			
Caisson Drilling	0.089	0.011	0.523	0.013	0.024			
Loaded Trucks	0.076	0.010	0.446	0.011	0.020			
Jackhammer	0.035	0.004	0.206	0.005	0.009			
Small bulldozer	0.003	0.000	0.018	0.000	0.001			
Significance Threshold, PPV		0.3	0.5	0.3	0.2			

**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 noted distance in feet), VdB						
		R1	R2	R3	R4	R5		
		60	270	100	390	145		
Large Bulldozer	87	76	56	69	51	64		
Caisson Drilling	87	76	56	69	51	64		
Loaded Trucks	86	75	55	68	50	63		
Jackhammer	79	68	48	61	43	56		
Small bulldozer	58	47	27	40	22	35		
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	25	30				
Typical road surface	0.00565	0.022	0.016	0.012				
Significance Threshold, PPV		0.12	0.12	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						
		20	25	30				
Typical road surface	63	75	72	70				
Significance Threshold, VdB		72	72	72				

Ref. Levels based on FTA Figure 7-3

# Operation Noise Calculations

## Project Composite Noise Calculations (CNEL)

Project: Sunset & Western

### Composite noise calculations

Receptor	Ambient	Traffic <sup>a</sup>	Mechanical	Parking	Loading/ Trash Compactor	Outdoor		Project Composite	Ambient + Project	Increase
R1	62.7	41.5	44.0	54.2	50.6	52.7		57.8	63.9	1.2
R2	62.7	43.0	41.1	37.2	47.6	48.4		52.2	63.1	0.4
R3	71.1	51.8	42.6	48.0	50.8	62.9		63.6	71.8	0.7
R4	63.5	40.9	41.5	47.2	48.5	49.1		53.6	63.9	0.4
R5	62.9	39.7	42.4	41.0	37.4	54.3		55.0	63.5	0.6

<sup>a</sup> - Project traffic noise levels at each receptor is based on the traffic noise analysis for the roadway segment in front of the receptor.  
Project traffic noise level is equal to "Existing+Project" minus "Existing" traffic noise levels, as provided in the table below.

### Project Only traffic noise calculations

Receptor	Roadway Segment	Traffic Noise Levels, CNEL			distance to roadway, ft	Existing	Existing + Project	barrier	distance to Center Line	adj. for distance
		Existing (A)	Existing + Project (B)	Project Only (B - A)						
R1	Western Ave.	57.5	57.6	41.5	270	71.7	71.8	5	35	-9.3
R2	Western Ave.	59.0	59.1	43.0	185	71.7	71.8	5	35	-7.8
R3	Sunset Blvd.	73.2	73.2	51.8	10	73.2	73.2	0	45	0.0
R4	Western Ave.	56.9	57.0	40.9	310	71.7	71.8	5	35	-9.8
R5	Western Ave.	55.6	55.8	39.7	425	71.7	71.8	5	35	-11.1

## Outdoor Mechanical Equipment Noise Calculations

Project: Sunset & Western

### Hours of Operations

Estimated Noise Levels, Leq from SOUNDPLAN			Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Leq	CNEL	12	3	9
R1	37.3	44.0	37.3	37.3	37.3
R2	34.4	41.1	34.4	34.4	34.4
R3	35.9	42.6	35.9	35.9	35.9
R4	34.8	41.5	34.8	34.8	34.8
R5	35.7	42.4	35.7	35.7	35.7

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	Ambient (Leq)	Ambient + Project (Leq)
R1	62.7	62.8	0.1	57.6	57.6
R2	62.7	62.7	0.0	56.1	56.1
R3	71.1	71.1	0.0	66.0	66.0
R4	63.5	63.5	0.0	56.6	56.6
R5	62.9	62.9	0.0	56.5	56.5



## Outdoor Noise Calculations

Project: Sunset & Western

### ALL LEVEL

Estimated noise levels, Leq (FROM SOUNDPLAN)					Hours of Operations		
					Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Sound System	Occupants	Total, Leq	CNEL	11	3	0
R1	52.9	44.1	53.4	52.7	53.0	53.4	0.0
R2	48.4	41.0	49.1	48.4	48.7	49.1	0.0
R3	62.7	56.4	63.6	62.9	63.2	63.6	0.0
R4	49.3	40.1	49.8	49.1	49.4	49.8	0.0
R5	54.6	44.2	55.0	54.3	54.6	55.0	0.0

### TOTAL COMBINED

Receptor	Project (CNEL)	Ambient (CNEL)	Ambient + Project (CNEL)	Increase (CNEL)	Project Noise, (Leq)	Ambient (Leq)	Ambient + Project (Leq)
R1	52.7	62.7	63.1	0.4	53.4	57.6	59.0
R2	48.4	62.7	62.9	0.2	49.1	56.1	56.9
R3	62.9	71.1	71.7	0.6	63.6	66.0	68.0
R4	49.1	63.5	63.7	0.2	49.8	56.6	57.4
R5	54.3	62.9	63.5	0.6	55.0	56.5	58.8

## Parking Structure Noise Calculations

Project: Sunset & Western

		Hours of Operations			
Estimated Noise Levels, Leq from SOUNDPLAN		Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)	
Receptor	Leq	CNEL	12	3	9
R1	47.5	54.2	47.5	47.5	47.5
R2	30.5	37.2	30.5	30.5	30.5
R3	41.3	48.0	41.3	41.3	41.3
R4	40.5	47.2	40.5	40.5	40.5
R5	34.3	41.0	34.3	34.3	34.3

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	Ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	62.7	63.3	0.6	57.6	58.0	0.4
R2	62.7	62.7	0.0	56.1	56.1	0.0
R3	71.1	71.1	0.0	66.0	66.0	0.0
R4	63.5	63.6	0.1	56.6	56.7	0.1
R5	62.9	62.9	0.0	56.5	56.5	0.0

## Loading and Trash Compactor Noise Calculations

Project: Sunset & Western

		Hours of Operations			
Estimated Noise Levels, Leq from SOUNDPLAN		Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)	
Receptor	Leq	CNEL	3	3	0
R1	53.4	50.6	47.4	53.4	0.0
R2	50.4	47.6	44.4	50.4	0.0
R3	53.6	50.8	47.6	53.6	0.0
R4	51.3	48.5	45.3	51.3	0.0
R5	40.2	37.4	34.2	40.2	0.0

Receptor	Project CNEL	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	Project Noise, (Leq)	Ambient (Leq)	Ambient + Project (Leq)
R1	50.6	62.7	63.0	0.3	53.4	59.6	60.5
R2	47.6	62.7	62.8	0.1	50.4	56.1	57.1
R3	50.8	71.1	71.1	0.0	53.6	67.8	68.0
R4	48.5	63.5	63.6	0.1	51.3	63.2	63.5
R5	37.4	62.9	62.9	0.0	40.2	61.9	61.9

## Sunset & Western Source Levels in dB(A) - Speakers

**3**

Name	Source type	Lw dB(A)	
Speakers Level 1	Point	99.6	
Speakers Level 1	Point	99.6	
Speakers Level 1	Point	99.6	
Speakers Level 1	Point	99.6	
Speakers Level 1	Point	99.6	
Speakers Level 1	Point	99.6	
Speakers Level 1	Point	99.6	
Speakers Level 1	Point	99.6	
Speakers Level 2	Point	113.6	
Speakers Level 2	Point	113.6	
Speakers Level 2	Point	113.6	
Speakers Level 2	Point	113.6	
Speakers Level 2	Point	113.6	
Speakers Level 2	Point	113.6	
Speakers Level 2	Point	113.6	
Speakers Level 2	Point	113.6	
Speakers Level 2	Point	113.6	
Speakers Level 2	Point	113.6	
Speakers Level 3 Bldg 1	Point	113.6	
Speakers Level 3 Bldg 1	Point	113.6	
Speakers Level 3 Bldg 1	Point	113.6	
Speakers Level 3 Bldg 2	Point	113.6	
Speakers Level 3 Bldg 2	Point	113.6	
Speakers Level 3 Bldg 2	Point	113.6	
Speakers Level 3 Pool 1	Point	113.6	
Speakers Level 3 Pool 2	Point	113.6	
Speakers Level 3 Pool 3	Point	113.6	
Speakers Level 3 Pool 4	Point	113.6	
Speakers Level 3 Pool 5	Point	113.6	
Speakers Level 3 Pool 6	Point	113.6	
Speakers Roof	Point	113.6	
Speakers Roof	Point	113.6	
Speakers Roof	Point	113.6	
Speakers Roof	Point	113.6	
Speakers Roof	Point	113.6	
Speakers Roof	Point	113.6	
Speakers Roof	Point	113.6	

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# Sunset & Western Assessed contribution level - Speakers

9

Source	Ld dB(A)	
Receiver R1 Ld 52.9 dB(A)		
Speakers Level 1	8.9	
Speakers Level 1	6.2	
Speakers Level 1	13.2	
Speakers Level 1	15.0	
Speakers Level 1	25.5	
Speakers Level 1	27.0	
Speakers Level 1	25.0	
Speakers Level 1	46.8	
Speakers Level 2	34.5	
Speakers Level 2	35.0	
Speakers Level 2	34.2	
Speakers Level 2	36.0	
Speakers Level 2	29.8	
Speakers Level 2	34.4	
Speakers Level 2	35.3	
Speakers Level 2	33.8	
Speakers Level 2	33.5	
Speakers Level 2	26.3	
Speakers Level 3 Bldg 2	30.2	
Speakers Level 3 Bldg 2	35.6	
Speakers Level 3 Bldg 2	24.0	
Speakers Level 3 Bldg 1	31.5	
Speakers Level 3 Bldg 1	30.8	
Speakers Level 3 Pool 2	24.5	
Speakers Level 3 Pool 1	25.5	
Speakers Level 3 Pool 5	31.5	
Speakers Level 3 Pool 4	30.5	
Speakers Level 3 Pool 6	27.2	
Speakers Level 3 Pool 3	34.5	
Speakers Level 3 Bldg 1	38.5	
Speakers Roof	34.1	
Speakers Roof	45.5	
Speakers Roof	39.8	
Speakers Roof	31.9	
Speakers Roof	45.1	
Speakers Roof	31.8	
Speakers Roof	37.0	
Speakers Roof	40.9	

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# Sunset & Western

## Assessed contribution level - Speakers

9

Source	Ld dB(A)	
Receiver R2 Ld 48.4 dB(A)		
Speakers Level 1	14.3	
Speakers Level 1	4.9	
Speakers Level 1	21.2	
Speakers Level 1	21.9	
Speakers Level 1	20.8	
Speakers Level 1	20.8	
Speakers Level 1	18.6	
Speakers Level 1	16.7	
Speakers Level 2	20.9	
Speakers Level 2	17.1	
Speakers Level 2	29.6	
Speakers Level 2	31.4	
Speakers Level 2	14.5	
Speakers Level 2	21.9	
Speakers Level 2	22.3	
Speakers Level 2	13.5	
Speakers Level 2	12.5	
Speakers Level 2	2.4	
Speakers Level 3 Bldg 2	27.5	
Speakers Level 3 Bldg 2	34.4	
Speakers Level 3 Bldg 2	35.3	
Speakers Level 3 Bldg 1	25.3	
Speakers Level 3 Bldg 1	34.4	
Speakers Level 3 Pool 2	37.8	
Speakers Level 3 Pool 1	33.6	
Speakers Level 3 Pool 5	36.5	
Speakers Level 3 Pool 4	34.8	
Speakers Level 3 Pool 6	19.4	
Speakers Level 3 Pool 3	38.9	
Speakers Level 3 Bldg 1	31.3	
Speakers Roof	35.7	
Speakers Roof	39.5	
Speakers Roof	36.5	
Speakers Roof	28.5	
Speakers Roof	36.1	
Speakers Roof	28.9	
Speakers Roof	32.1	
Speakers Roof	37.8	

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# Sunset & Western

## Assessed contribution level - Speakers

9

Source	Ld dB(A)	
Receiver R3 Ld 62.7 dB(A)		
Speakers Level 1	30.3	
Speakers Level 1	22.1	
Speakers Level 1	58.3	
Speakers Level 1	56.7	
Speakers Level 1	45.1	
Speakers Level 1	40.6	
Speakers Level 1	37.2	
Speakers Level 1	32.6	
Speakers Level 2	18.5	
Speakers Level 2	24.6	
Speakers Level 2	24.5	
Speakers Level 2	30.0	
Speakers Level 2	29.5	
Speakers Level 2	27.8	
Speakers Level 2	26.7	
Speakers Level 2	22.1	
Speakers Level 2	21.1	
Speakers Level 2	7.7	
Speakers Level 3 Bldg 2	41.4	
Speakers Level 3 Bldg 2	41.2	
Speakers Level 3 Bldg 2	42.5	
Speakers Level 3 Bldg 1	37.5	
Speakers Level 3 Bldg 1	40.8	
Speakers Level 3 Pool 2	44.6	
Speakers Level 3 Pool 1	48.7	
Speakers Level 3 Pool 5	48.1	
Speakers Level 3 Pool 4	51.3	
Speakers Level 3 Pool 6	48.5	
Speakers Level 3 Pool 3	38.8	
Speakers Level 3 Bldg 1	32.1	
Speakers Roof	42.3	
Speakers Roof	40.6	
Speakers Roof	43.7	
Speakers Roof	42.2	
Speakers Roof	44.0	
Speakers Roof	43.5	
Speakers Roof	45.1	
Speakers Roof	47.2	

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# Sunset & Western

## Assessed contribution level - Speakers

9

Source	Ld dB(A)	
Receiver R4 Ld 49.3 dB(A)		
Speakers Level 1	11.9	
Speakers Level 1	26.3	
Speakers Level 1	14.6	
Speakers Level 1	11.3	
Speakers Level 1	22.2	
Speakers Level 1	24.3	
Speakers Level 1	29.7	
Speakers Level 1	16.4	
Speakers Level 2	29.6	
Speakers Level 2	31.9	
Speakers Level 2	35.2	
Speakers Level 2	23.5	
Speakers Level 2	32.4	
Speakers Level 2	34.0	
Speakers Level 2	32.0	
Speakers Level 2	33.5	
Speakers Level 2	35.4	
Speakers Level 2	21.0	
Speakers Level 3 Bldg 2	25.0	
Speakers Level 3 Bldg 2	15.7	
Speakers Level 3 Bldg 2	17.8	
Speakers Level 3 Bldg 1	28.2	
Speakers Level 3 Bldg 1	15.4	
Speakers Level 3 Pool 2	24.2	
Speakers Level 3 Pool 1	15.9	
Speakers Level 3 Pool 5	39.6	
Speakers Level 3 Pool 4	30.2	
Speakers Level 3 Pool 6	38.0	
Speakers Level 3 Pool 3	13.7	
Speakers Level 3 Bldg 1	23.1	
Speakers Roof	35.6	
Speakers Roof	31.9	
Speakers Roof	36.2	
Speakers Roof	39.0	
Speakers Roof	30.7	
Speakers Roof	43.6	
Speakers Roof	34.9	
Speakers Roof	34.5	

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# Sunset & Western

## Assessed contribution level - Speakers

9

Source	Ld dB(A)	
Receiver R5 Ld 54.6 dB(A)		
Speakers Level 1	1.2	
Speakers Level 1	3.0	
Speakers Level 1	1.5	
Speakers Level 1	12.9	
Speakers Level 1	15.0	
Speakers Level 1	21.2	
Speakers Level 1	30.1	
Speakers Level 1	20.5	
Speakers Level 2	45.8	
Speakers Level 2	44.2	
Speakers Level 2	37.7	
Speakers Level 2	33.9	
Speakers Level 2	38.3	
Speakers Level 2	37.4	
Speakers Level 2	46.8	
Speakers Level 2	45.1	
Speakers Level 2	29.2	
Speakers Level 2	17.6	
Speakers Level 3 Bldg 2	27.3	
Speakers Level 3 Bldg 2	24.8	
Speakers Level 3 Bldg 2	26.1	
Speakers Level 3 Bldg 1	22.7	
Speakers Level 3 Bldg 1	31.2	
Speakers Level 3 Pool 2	13.2	
Speakers Level 3 Pool 1	17.0	
Speakers Level 3 Pool 5	41.3	
Speakers Level 3 Pool 4	28.3	
Speakers Level 3 Pool 6	25.0	
Speakers Level 3 Pool 3	19.2	
Speakers Level 3 Bldg 1	29.4	
Speakers Roof	43.0	
Speakers Roof	32.2	
Speakers Roof	32.5	
Speakers Roof	38.7	
Speakers Roof	34.7	
Speakers Roof	38.1	
Speakers Roof	47.8	
Speakers Roof	33.7	

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## Sunset & Western Source Levels in dB(A) - People

**3**

Name	Source type	Lw dB(A)	
People Level 1 Paseo	Area	99.7	
People Level 1 Plaza	Area	93.7	
People Level 1 Plaza	Area	93.2	
People Level 2 Bldg 3 Paseo	Area	98.3	
People Level 2 Bldg 4 Paseo	Area	97.4	
People Level 3 Bldg 1	Area	94.8	
People Level 3 Bldg 2	Area	96.9	
People Level 3 Pool Area	Area	101.2	
People Roof Rec 1	Area	96.1	
People Roof Rec 2	Area	93.5	

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**Sunset & Western  
Source Levels in dB(A) - Loading**

**3**

Name	Source type	Lw dB(A)	
Loading East 1	Point	101.9	
Loading East 2	Point	101.9	
Loading West 1	Point	101.9	
Loading West 2	Point	101.9	
Loading West 3	Point	101.9	

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# Sunset & Western Assessed contribution level - Loading

9

Source	Ld dB(A)	
Receiver R1 Ld 53.4 dB(A)		
Loading West 1	39.4	
Loading West 2	39.3	
Loading West 3	38.9	
Loading East 1	46.1	
Loading East 2	51.9	
Receiver R2 Ld 50.4 dB(A)		
Loading West 1	30.9	
Loading West 2	30.6	
Loading West 3	30.8	
Loading East 1	49.0	
Loading East 2	44.2	
Receiver R3 Ld 53.6 dB(A)		
Loading West 1	45.4	
Loading West 2	43.8	
Loading West 3	52.3	
Loading East 1	32.0	
Loading East 2	30.8	
Receiver R4 Ld 51.3 dB(A)		
Loading West 1	32.4	
Loading West 2	48.4	
Loading West 3	47.9	
Loading East 1	18.8	
Loading East 2	22.7	
Receiver R5 Ld 40.2 dB(A)		
Loading West 1	32.8	
Loading West 2	34.9	
Loading West 3	34.2	
Loading East 1	28.1	
Loading East 2	33.4	

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**Sunset & Western**  
**Input data parking lots - Parking**

**14**

Parking lot	Parking Spaces	
Level 1 Parking S	172	
Level 1 Parking N	27	

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**Sunset & Western**  
**Source Levels in dB(A) - Parking**

**3**

Name	Source type	Lw dB(A)	
Level 1 Parking N	PLot	85.0	
Level 1 Parking S	PLot	95.4	

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# Sunset & Western Assessed contribution level - Parking

9

Source	Ld dB(A)	
Receiver R1 Ld 47.5 dB(A)		
Level 1 Parking S	47.4	
Level 1 Parking N	20.4	
Receiver R2 Ld 30.5 dB(A)		
Level 1 Parking S	30.3	
Level 1 Parking N	17.1	
Receiver R3 Ld 41.3 dB(A)		
Level 1 Parking S	39.9	
Level 1 Parking N	35.7	
Receiver R4 Ld 40.5 dB(A)		
Level 1 Parking S	40.3	
Level 1 Parking N	26.7	
Receiver R5 Ld 34.3 dB(A)		
Level 1 Parking S	34.0	
Level 1 Parking N	22.4	

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## 3 |

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## 3 |

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# Sunset & Western

## Assessed contribution level - Mechanical

9

Source	Ld dB(A)	
Receiver R1 Ld 37.3 dB(A)		
Mechanical Roof Bldg 1	16.9	
Mechanical Roof Bldg 1	17.4	
Mechanical Roof Bldg 1	10.0	
Mechanical Roof Bldg 1	10.4	
Mechanical Roof Bldg 1	16.3	
Mechanical Roof Bldg 1	19.8	
Mechanical Roof Bldg 1	20.0	
Mechanical Roof Bldg 1	20.1	
Mechanical Roof Bldg 1	20.4	
Mechanical Roof Bldg 1	10.8	
Mechanical Roof Bldg 1	19.4	
Mechanical Roof Bldg 1	9.1	
Mechanical Roof Bldg 1	8.9	
Mechanical Roof Bldg 1	9.3	
Mechanical Roof Bldg 1	18.8	
Mechanical Roof Bldg 1	15.3	
Mechanical Roof Bldg 1	16.7	
Mechanical Roof Bldg 1	17.1	
Mechanical Roof Bldg 1	18.0	
Mechanical Roof Bldg 2	5.2	
Mechanical Roof Bldg 2	5.1	
Mechanical Roof Bldg 2	5.0	
Mechanical Roof Bldg 2	5.3	
Mechanical Roof Bldg 2	9.5	
Mechanical Roof Bldg 2	7.7	
Mechanical Roof Bldg 2	7.4	
Mechanical Roof Bldg 2	6.4	
Mechanical Roof Bldg 2	5.9	
Mechanical Roof Bldg 2	6.6	
Mechanical Roof Bldg 2	6.8	
Mechanical Roof Bldg 2	7.1	
Mechanical Roof Bldg 2	5.5	
Mechanical Roof Bldg 2	5.6	
Mechanical Roof Bldg 2	5.7	
Mechanical Roof Bldg 2	5.8	
Mechanical Roof Bldg 2	10.6	
Mechanical Roof Bldg 2	10.6	
Mechanical Roof Bldg 2	10.5	
Mechanical Roof Bldg 2	12.3	
Mechanical Roof Bldg 2	10.4	

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**Sunset & Western**  
**Assessed contribution level - Mechanical**

**9**

Source	Ld dB(A)	
Mechanical Roof Bldg 2	10.4	
Mechanical Roof Bldg 2	12.9	
Mechanical Roof Bldg 2	12.7	
Mechanical Roof Bldg 2	12.5	
Mechanical Roof Bldg 2	10.4	
Mechanical Roof Bldg 3	5.6	
Mechanical Roof Bldg 3	5.6	
Mechanical Roof Bldg 3	10.2	
Mechanical Roof Bldg 3	13.0	
Mechanical Roof Bldg 3	13.3	
Mechanical Roof Bldg 3	5.3	
Mechanical Roof Bldg 3	9.6	
Mechanical Roof Bldg 3	10.3	
Mechanical Roof Bldg 3	7.2	
Mechanical Roof Bldg 3	6.9	
Mechanical Roof Bldg 3	6.7	
Mechanical Roof Bldg 3	8.5	
Mechanical Roof Bldg 3	9.4	
Mechanical Roof Bldg 3	9.0	
Mechanical Roof Bldg 3	7.6	
Mechanical Roof Bldg 3	7.9	
Mechanical Roof Bldg 3	7.2	
Mechanical Roof Bldg 3	8.5	
Mechanical Roof Bldg 3	6.6	
Mechanical Roof Bldg 3	6.0	
Mechanical Roof Bldg 3	6.3	
Mechanical Roof Bldg 3	6.8	
Mechanical Roof Bldg 3	12.8	
Mechanical Roof Bldg 3	13.7	
Mechanical Roof Bldg 3	13.6	
Mechanical Roof Bldg 3	6.8	
Mechanical Roof Bldg 3	13.5	
Mechanical Roof Bldg 4	20.3	
Mechanical Roof Bldg 4	20.0	
Mechanical Roof Bldg 4	19.3	
Mechanical Roof Bldg 4	19.0	
Mechanical Roof Bldg 4	18.6	
Mechanical Roof Bldg 4	19.4	
Mechanical Roof Bldg 4	19.7	
Mechanical Roof Bldg 4	19.6	
Mechanical Roof Bldg 4	18.8	

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**Sunset & Western**  
**Assessed contribution level - Mechanical**

**9**

Source	Ld dB(A)	
Mechanical Roof Bldg 4	16.5	
Mechanical Roof Bldg 4	19.0	
Mechanical Roof Bldg 4	18.9	
Mechanical Roof Bldg 4	19.0	
Mechanical Roof Bldg 4	19.2	
Mechanical Roof Bldg 4	19.3	
Mechanical Roof Bldg 4	19.5	
Mechanical Roof Bldg 4	8.0	
Mechanical Roof Bldg 4	13.2	
Mechanical Roof Bldg 4	7.3	
Mechanical Roof Bldg 4	7.1	
Mechanical Roof Bldg 4	6.8	
Mechanical Roof Bldg 4	7.6	
Mechanical Roof Bldg 4	16.7	
Mechanical Roof Bldg 4	17.0	
Mechanical Roof Bldg 4	15.1	
Mechanical Roof Bldg 4	14.7	
Mechanical Roof Bldg 4	9.8	
Mechanical Roof Market	20.7	
Mechanical Roof Market	29.9	
Mechanical Roof Market	31.1	
Receiver R2 Ld 34.4 dB(A)		
Mechanical Roof Bldg 1	9.4	
Mechanical Roof Bldg 1	9.4	
Mechanical Roof Bldg 1	20.7	
Mechanical Roof Bldg 1	20.8	
Mechanical Roof Bldg 1	9.3	
Mechanical Roof Bldg 1	9.0	
Mechanical Roof Bldg 1	9.5	
Mechanical Roof Bldg 1	9.5	
Mechanical Roof Bldg 1	9.3	
Mechanical Roof Bldg 1	21.0	
Mechanical Roof Bldg 1	13.9	
Mechanical Roof Bldg 1	17.6	
Mechanical Roof Bldg 1	18.1	
Mechanical Roof Bldg 1	16.7	
Mechanical Roof Bldg 1	9.1	
Mechanical Roof Bldg 1	20.9	
Mechanical Roof Bldg 1	21.1	
Mechanical Roof Bldg 1	21.2	
Mechanical Roof Bldg 1	8.9	

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**Sunset & Western**  
**Assessed contribution level - Mechanical**

**9**

Source	Ld dB(A)	
Mechanical Roof Bldg 2	14.7	
Mechanical Roof Bldg 2	14.5	
Mechanical Roof Bldg 2	12.2	
Mechanical Roof Bldg 2	14.9	
Mechanical Roof Bldg 2	8.1	
Mechanical Roof Bldg 2	8.3	
Mechanical Roof Bldg 2	8.4	
Mechanical Roof Bldg 2	12.9	
Mechanical Roof Bldg 2	15.1	
Mechanical Roof Bldg 2	12.6	
Mechanical Roof Bldg 2	9.6	
Mechanical Roof Bldg 2	8.8	
Mechanical Roof Bldg 2	15.1	
Mechanical Roof Bldg 2	15.3	
Mechanical Roof Bldg 2	15.1	
Mechanical Roof Bldg 2	15.3	
Mechanical Roof Bldg 2	12.1	
Mechanical Roof Bldg 2	12.0	
Mechanical Roof Bldg 2	12.2	
Mechanical Roof Bldg 2	11.8	
Mechanical Roof Bldg 2	11.7	
Mechanical Roof Bldg 2	12.6	
Mechanical Roof Bldg 2	12.1	
Mechanical Roof Bldg 2	12.1	
Mechanical Roof Bldg 2	12.0	
Mechanical Roof Bldg 2	12.4	
Mechanical Roof Bldg 3	3.9	
Mechanical Roof Bldg 3	4.3	
Mechanical Roof Bldg 3	4.9	
Mechanical Roof Bldg 3	5.2	
Mechanical Roof Bldg 3	5.2	
Mechanical Roof Bldg 3	3.8	
Mechanical Roof Bldg 3	4.7	
Mechanical Roof Bldg 3	4.7	
Mechanical Roof Bldg 3	3.8	
Mechanical Roof Bldg 3	3.5	
Mechanical Roof Bldg 3	3.4	
Mechanical Roof Bldg 3	4.6	
Mechanical Roof Bldg 3	4.7	
Mechanical Roof Bldg 3	4.5	
Mechanical Roof Bldg 3	4.4	

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**Sunset & Western**  
**Assessed contribution level - Mechanical**

**9**

Source	Ld dB(A)	
Mechanical Roof Bldg 3	4.5	
Mechanical Roof Bldg 3	7.2	
Mechanical Roof Bldg 3	7.3	
Mechanical Roof Bldg 3	6.1	
Mechanical Roof Bldg 3	5.9	
Mechanical Roof Bldg 3	5.7	
Mechanical Roof Bldg 3	7.1	
Mechanical Roof Bldg 3	5.2	
Mechanical Roof Bldg 3	8.3	
Mechanical Roof Bldg 3	8.2	
Mechanical Roof Bldg 3	7.0	
Mechanical Roof Bldg 3	8.1	
Mechanical Roof Bldg 4	8.4	
Mechanical Roof Bldg 4	8.5	
Mechanical Roof Bldg 4	8.4	
Mechanical Roof Bldg 4	8.4	
Mechanical Roof Bldg 4	8.4	
Mechanical Roof Bldg 4	6.6	
Mechanical Roof Bldg 4	8.5	
Mechanical Roof Bldg 4	8.3	
Mechanical Roof Bldg 4	6.5	
Mechanical Roof Bldg 4	6.3	
Mechanical Roof Bldg 4	6.6	
Mechanical Roof Bldg 4	6.1	
Mechanical Roof Bldg 4	6.2	
Mechanical Roof Bldg 4	6.2	
Mechanical Roof Bldg 4	6.2	
Mechanical Roof Bldg 4	6.6	
Mechanical Roof Bldg 4	5.5	
Mechanical Roof Bldg 4	5.6	
Mechanical Roof Bldg 4	5.3	
Mechanical Roof Bldg 4	5.2	
Mechanical Roof Bldg 4	4.4	
Mechanical Roof Bldg 4	5.4	
Mechanical Roof Bldg 4	6.3	
Mechanical Roof Bldg 4	6.4	
Mechanical Roof Bldg 4	3.7	
Mechanical Roof Bldg 4	3.7	
Mechanical Roof Bldg 4	3.7	
Mechanical Roof Market	16.7	
Mechanical Roof Market	27.6	

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**Sunset & Western**  
**Assessed contribution level - Mechanical**

**9**

Source	Ld dB(A)	
Mechanical Roof Market	25.9	
Receiver R3 Ld 35.9 dB(A)		
Mechanical Roof Bldg 1	13.3	
Mechanical Roof Bldg 1	15.9	
Mechanical Roof Bldg 1	18.7	
Mechanical Roof Bldg 1	18.5	
Mechanical Roof Bldg 1	14.2	
Mechanical Roof Bldg 1	16.2	
Mechanical Roof Bldg 1	16.6	
Mechanical Roof Bldg 1	20.2	
Mechanical Roof Bldg 1	16.7	
Mechanical Roof Bldg 1	18.4	
Mechanical Roof Bldg 1	10.9	
Mechanical Roof Bldg 1	20.3	
Mechanical Roof Bldg 1	20.4	
Mechanical Roof Bldg 1	20.7	
Mechanical Roof Bldg 1	11.2	
Mechanical Roof Bldg 1	18.3	
Mechanical Roof Bldg 1	18.9	
Mechanical Roof Bldg 1	18.8	
Mechanical Roof Bldg 1	15.4	
Mechanical Roof Bldg 2	21.9	
Mechanical Roof Bldg 2	21.7	
Mechanical Roof Bldg 2	21.6	
Mechanical Roof Bldg 2	22.0	
Mechanical Roof Bldg 2	14.9	
Mechanical Roof Bldg 2	15.2	
Mechanical Roof Bldg 2	15.5	
Mechanical Roof Bldg 2	15.0	
Mechanical Roof Bldg 2	22.4	
Mechanical Roof Bldg 2	18.4	
Mechanical Roof Bldg 2	18.0	
Mechanical Roof Bldg 2	17.6	
Mechanical Roof Bldg 2	22.1	
Mechanical Roof Bldg 2	22.5	
Mechanical Roof Bldg 2	22.2	
Mechanical Roof Bldg 2	22.3	
Mechanical Roof Bldg 2	14.5	
Mechanical Roof Bldg 2	14.5	
Mechanical Roof Bldg 2	13.0	
Mechanical Roof Bldg 2	13.3	

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**Sunset & Western**  
**Assessed contribution level - Mechanical**

**9**

Source	Ld dB(A)	
Mechanical Roof Bldg 2	13.2	
Mechanical Roof Bldg 2	13.1	
Mechanical Roof Bldg 2	13.6	
Mechanical Roof Bldg 2	13.2	
Mechanical Roof Bldg 2	13.3	
Mechanical Roof Bldg 2	13.1	
Mechanical Roof Bldg 3	3.4	
Mechanical Roof Bldg 3	3.6	
Mechanical Roof Bldg 3	12.4	
Mechanical Roof Bldg 3	9.5	
Mechanical Roof Bldg 3	12.4	
Mechanical Roof Bldg 3	9.6	
Mechanical Roof Bldg 3	12.1	
Mechanical Roof Bldg 3	10.0	
Mechanical Roof Bldg 3	7.2	
Mechanical Roof Bldg 3	7.0	
Mechanical Roof Bldg 3	7.0	
Mechanical Roof Bldg 3	9.8	
Mechanical Roof Bldg 3	11.9	
Mechanical Roof Bldg 3	11.7	
Mechanical Roof Bldg 3	7.3	
Mechanical Roof Bldg 3	7.7	
Mechanical Roof Bldg 3	7.4	
Mechanical Roof Bldg 3	7.6	
Mechanical Roof Bldg 3	5.0	
Mechanical Roof Bldg 3	4.9	
Mechanical Roof Bldg 3	5.4	
Mechanical Roof Bldg 3	7.3	
Mechanical Roof Bldg 3	11.2	
Mechanical Roof Bldg 3	9.0	
Mechanical Roof Bldg 3	8.8	
Mechanical Roof Bldg 3	5.2	
Mechanical Roof Bldg 3	8.6	
Mechanical Roof Bldg 4	9.6	
Mechanical Roof Bldg 4	9.2	
Mechanical Roof Bldg 4	8.7	
Mechanical Roof Bldg 4	7.4	
Mechanical Roof Bldg 4	6.2	
Mechanical Roof Bldg 4	9.3	
Mechanical Roof Bldg 4	9.1	
Mechanical Roof Bldg 4	8.9	

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**Sunset & Western**  
**Assessed contribution level - Mechanical**

**9**

Source	Ld dB(A)	
Mechanical Roof Bldg 4	9.3	
Mechanical Roof Bldg 4	10.4	
Mechanical Roof Bldg 4	11.0	
Mechanical Roof Bldg 4	9.2	
Mechanical Roof Bldg 4	11.3	
Mechanical Roof Bldg 4	11.5	
Mechanical Roof Bldg 4	11.3	
Mechanical Roof Bldg 4	11.2	
Mechanical Roof Bldg 4	12.3	
Mechanical Roof Bldg 4	12.5	
Mechanical Roof Bldg 4	7.8	
Mechanical Roof Bldg 4	7.6	
Mechanical Roof Bldg 4	7.2	
Mechanical Roof Bldg 4	12.1	
Mechanical Roof Bldg 4	9.7	
Mechanical Roof Bldg 4	9.4	
Mechanical Roof Bldg 4	5.7	
Mechanical Roof Bldg 4	5.8	
Mechanical Roof Bldg 4	6.2	
Mechanical Roof Market	10.5	
Mechanical Roof Market	20.5	
Mechanical Roof Market	20.3	
Receiver R4 Ld 34.8 dB(A)		
Mechanical Roof Bldg 1	10.6	
Mechanical Roof Bldg 1	4.7	
Mechanical Roof Bldg 1	5.0	
Mechanical Roof Bldg 1	5.1	
Mechanical Roof Bldg 1	10.3	
Mechanical Roof Bldg 1	9.8	
Mechanical Roof Bldg 1	9.7	
Mechanical Roof Bldg 1	9.8	
Mechanical Roof Bldg 1	10.1	
Mechanical Roof Bldg 1	5.2	
Mechanical Roof Bldg 1	4.5	
Mechanical Roof Bldg 1	6.2	
Mechanical Roof Bldg 1	5.8	
Mechanical Roof Bldg 1	6.6	
Mechanical Roof Bldg 1	4.5	
Mechanical Roof Bldg 1	5.3	
Mechanical Roof Bldg 1	5.3	
Mechanical Roof Bldg 1	5.4	

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**Sunset & Western**  
**Assessed contribution level - Mechanical**

**9**

Source	Ld dB(A)	
Mechanical Roof Bldg 1	4.5	
Mechanical Roof Bldg 2	16.1	
Mechanical Roof Bldg 2	16.4	
Mechanical Roof Bldg 2	16.7	
Mechanical Roof Bldg 2	11.9	
Mechanical Roof Bldg 2	19.6	
Mechanical Roof Bldg 2	19.5	
Mechanical Roof Bldg 2	19.4	
Mechanical Roof Bldg 2	19.1	
Mechanical Roof Bldg 2	10.0	
Mechanical Roof Bldg 2	19.2	
Mechanical Roof Bldg 2	19.3	
Mechanical Roof Bldg 2	19.4	
Mechanical Roof Bldg 2	11.5	
Mechanical Roof Bldg 2	11.1	
Mechanical Roof Bldg 2	10.7	
Mechanical Roof Bldg 2	10.4	
Mechanical Roof Bldg 2	17.6	
Mechanical Roof Bldg 2	17.6	
Mechanical Roof Bldg 2	17.5	
Mechanical Roof Bldg 2	17.2	
Mechanical Roof Bldg 2	17.3	
Mechanical Roof Bldg 2	17.3	
Mechanical Roof Bldg 2	17.3	
Mechanical Roof Bldg 2	17.2	
Mechanical Roof Bldg 2	17.1	
Mechanical Roof Bldg 2	17.4	
Mechanical Roof Bldg 3	8.2	
Mechanical Roof Bldg 3	8.2	
Mechanical Roof Bldg 3	15.0	
Mechanical Roof Bldg 3	18.1	
Mechanical Roof Bldg 3	17.9	
Mechanical Roof Bldg 3	8.2	
Mechanical Roof Bldg 3	8.4	
Mechanical Roof Bldg 3	11.8	
Mechanical Roof Bldg 3	11.6	
Mechanical Roof Bldg 3	11.5	
Mechanical Roof Bldg 3	11.5	
Mechanical Roof Bldg 3	11.8	
Mechanical Roof Bldg 3	8.3	
Mechanical Roof Bldg 3	8.3	

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**Sunset & Western**  
**Assessed contribution level - Mechanical**

**9**

Source	Ld dB(A)	
Mechanical Roof Bldg 3	11.6	
Mechanical Roof Bldg 3	11.6	
Mechanical Roof Bldg 3	20.3	
Mechanical Roof Bldg 3	20.3	
Mechanical Roof Bldg 3	20.4	
Mechanical Roof Bldg 3	20.4	
Mechanical Roof Bldg 3	20.4	
Mechanical Roof Bldg 3	20.4	
Mechanical Roof Bldg 3	18.2	
Mechanical Roof Bldg 3	17.2	
Mechanical Roof Bldg 3	17.6	
Mechanical Roof Bldg 3	20.6	
Mechanical Roof Bldg 3	18.0	
Mechanical Roof Bldg 4	3.7	
Mechanical Roof Bldg 4	7.3	
Mechanical Roof Bldg 4	4.7	
Mechanical Roof Bldg 4	7.6	
Mechanical Roof Bldg 4	6.3	
Mechanical Roof Bldg 4	5.3	
Mechanical Roof Bldg 4	4.3	
Mechanical Roof Bldg 4	4.2	
Mechanical Roof Bldg 4	11.5	
Mechanical Roof Bldg 4	11.7	
Mechanical Roof Bldg 4	5.2	
Mechanical Roof Bldg 4	11.5	
Mechanical Roof Bldg 4	11.4	
Mechanical Roof Bldg 4	5.4	
Mechanical Roof Bldg 4	5.3	
Mechanical Roof Bldg 4	5.3	
Mechanical Roof Bldg 4	8.1	
Mechanical Roof Bldg 4	8.4	
Mechanical Roof Bldg 4	7.8	
Mechanical Roof Bldg 4	7.6	
Mechanical Roof Bldg 4	6.0	
Mechanical Roof Bldg 4	7.9	
Mechanical Roof Bldg 4	11.6	
Mechanical Roof Bldg 4	11.6	
Mechanical Roof Bldg 4	5.9	
Mechanical Roof Bldg 4	5.9	
Mechanical Roof Bldg 4	5.8	
Mechanical Roof Market	5.4	

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**Sunset & Western**  
**Assessed contribution level - Mechanical**

**9**

Source	Ld dB(A)	
Mechanical Roof Market	15.1	
Mechanical Roof Market	15.9	
Receiver R5 Ld 35.7 dB(A)		
Mechanical Roof Bldg 1	11.3	
Mechanical Roof Bldg 1	7.4	
Mechanical Roof Bldg 1	8.6	
Mechanical Roof Bldg 1	6.2	
Mechanical Roof Bldg 1	11.5	
Mechanical Roof Bldg 1	11.5	
Mechanical Roof Bldg 1	11.5	
Mechanical Roof Bldg 1	11.5	
Mechanical Roof Bldg 1	11.5	
Mechanical Roof Bldg 1	5.6	
Mechanical Roof Bldg 1	7.5	
Mechanical Roof Bldg 1	9.0	
Mechanical Roof Bldg 1	9.5	
Mechanical Roof Bldg 1	8.6	
Mechanical Roof Bldg 1	7.5	
Mechanical Roof Bldg 1	4.4	
Mechanical Roof Bldg 1	4.4	
Mechanical Roof Bldg 1	4.7	
Mechanical Roof Bldg 1	7.4	
Mechanical Roof Bldg 2	4.3	
Mechanical Roof Bldg 2	4.3	
Mechanical Roof Bldg 2	4.2	
Mechanical Roof Bldg 2	4.4	
Mechanical Roof Bldg 2	8.4	
Mechanical Roof Bldg 2	8.5	
Mechanical Roof Bldg 2	8.5	
Mechanical Roof Bldg 2	6.8	
Mechanical Roof Bldg 2	5.4	
Mechanical Roof Bldg 2	7.3	
Mechanical Roof Bldg 2	7.7	
Mechanical Roof Bldg 2	7.9	
Mechanical Roof Bldg 2	4.5	
Mechanical Roof Bldg 2	4.5	
Mechanical Roof Bldg 2	4.6	
Mechanical Roof Bldg 2	5.0	
Mechanical Roof Bldg 2	7.1	
Mechanical Roof Bldg 2	9.0	
Mechanical Roof Bldg 2	8.9	

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**Sunset & Western**  
**Assessed contribution level - Mechanical**

**9**

Source	Ld dB(A)	
Mechanical Roof Bldg 2	7.1	
Mechanical Roof Bldg 2	7.1	
Mechanical Roof Bldg 2	7.1	
Mechanical Roof Bldg 2	7.2	
Mechanical Roof Bldg 2	7.2	
Mechanical Roof Bldg 2	7.1	
Mechanical Roof Bldg 2	7.0	
Mechanical Roof Bldg 3	18.6	
Mechanical Roof Bldg 3	18.1	
Mechanical Roof Bldg 3	16.8	
Mechanical Roof Bldg 3	16.1	
Mechanical Roof Bldg 3	16.3	
Mechanical Roof Bldg 3	19.1	
Mechanical Roof Bldg 3	16.9	
Mechanical Roof Bldg 3	20.6	
Mechanical Roof Bldg 3	18.6	
Mechanical Roof Bldg 3	18.7	
Mechanical Roof Bldg 3	18.7	
Mechanical Roof Bldg 3	20.6	
Mechanical Roof Bldg 3	17.1	
Mechanical Roof Bldg 3	17.6	
Mechanical Roof Bldg 3	20.8	
Mechanical Roof Bldg 3	20.7	
Mechanical Roof Bldg 3	12.6	
Mechanical Roof Bldg 3	12.1	
Mechanical Roof Bldg 3	18.5	
Mechanical Roof Bldg 3	18.7	
Mechanical Roof Bldg 3	18.7	
Mechanical Roof Bldg 3	13.1	
Mechanical Roof Bldg 3	16.5	
Mechanical Roof Bldg 3	15.6	
Mechanical Roof Bldg 3	11.0	
Mechanical Roof Bldg 3	18.5	
Mechanical Roof Bldg 3	10.7	
Mechanical Roof Bldg 4	16.0	
Mechanical Roof Bldg 4	16.5	
Mechanical Roof Bldg 4	16.4	
Mechanical Roof Bldg 4	16.8	
Mechanical Roof Bldg 4	19.4	
Mechanical Roof Bldg 4	11.1	
Mechanical Roof Bldg 4	17.0	

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**Sunset & Western**  
**Assessed contribution level - Mechanical**

**9**

Source	Ld dB(A)	
Mechanical Roof Bldg 4	17.3	
Mechanical Roof Bldg 4	19.8	
Mechanical Roof Bldg 4	19.8	
Mechanical Roof Bldg 4	11.1	
Mechanical Roof Bldg 4	19.8	
Mechanical Roof Bldg 4	17.6	
Mechanical Roof Bldg 4	11.0	
Mechanical Roof Bldg 4	11.0	
Mechanical Roof Bldg 4	11.3	
Mechanical Roof Bldg 4	17.6	
Mechanical Roof Bldg 4	17.3	
Mechanical Roof Bldg 4	18.1	
Mechanical Roof Bldg 4	18.6	
Mechanical Roof Bldg 4	19.1	
Mechanical Roof Bldg 4	18.0	
Mechanical Roof Bldg 4	19.7	
Mechanical Roof Bldg 4	19.7	
Mechanical Roof Bldg 4	20.8	
Mechanical Roof Bldg 4	21.0	
Mechanical Roof Bldg 4	20.7	
Mechanical Roof Market	6.4	
Mechanical Roof Market	16.1	
Mechanical Roof Market	16.6	

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# Sunset & Western

## Assessed contribution level - People

9

Source	Ld dB(A)	
Receiver R1 Ld 44.1 dB(A)		
People Level 1 Paseo	42.0	
People Roof Rec 1	34.5	
People Roof Rec 2	32.9	
People Level 2 Bldg 4 Paseo	31.1	
People Level 3 Pool Area	29.7	
People Level 2 Bldg 3 Paseo	29.5	
People Level 3 Bldg 1	28.9	
People Level 3 Bldg 2	26.0	
People Level 1 Plaza	25.8	
People Level 1 Plaza	20.0	
Receiver R2 Ld 41.0 dB(A)		
People Level 3 Pool Area	38.3	
People Roof Rec 1	31.2	
People Level 1 Paseo	31.0	
People Level 3 Bldg 2	30.4	
People Roof Rec 2	28.9	
People Level 1 Plaza	27.7	
People Level 3 Bldg 1	25.3	
People Level 1 Plaza	21.1	
People Level 2 Bldg 4 Paseo	20.4	
People Level 2 Bldg 3 Paseo	18.2	
Receiver R3 Ld 56.4 dB(A)		
People Level 1 Plaza	52.6	
People Level 1 Paseo	51.1	
People Level 3 Pool Area	49.5	
People Level 1 Plaza	42.6	
People Roof Rec 1	37.8	
People Roof Rec 2	37.7	
People Level 3 Bldg 2	37.0	
People Level 3 Bldg 1	30.7	
People Level 2 Bldg 3 Paseo	23.3	
People Level 2 Bldg 4 Paseo	22.5	
Receiver R4 Ld 40.1 dB(A)		
People Level 1 Paseo	34.1	
People Level 1 Plaza	33.5	
People Roof Rec 1	32.8	
People Roof Rec 2	30.4	
People Level 3 Pool Area	29.9	
People Level 2 Bldg 3 Paseo	27.8	

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# Sunset & Western

## Assessed contribution level - People

9

Source	Ld dB(A)	
People Level 2 Bldg 4 Paseo	25.2	
People Level 1 Plaza	24.3	
People Level 3 Bldg 2	21.0	
People Level 3 Bldg 1	18.3	
Receiver R5 Ld 44.2 dB(A)		
People Level 2 Bldg 4 Paseo	40.9	
People Level 2 Bldg 3 Paseo	37.9	
People Roof Rec 2	33.6	
People Level 1 Paseo	33.5	
People Roof Rec 1	33.3	
People Level 3 Pool Area	29.1	
People Level 3 Bldg 2	20.9	
People Level 1 Plaza	20.3	
People Level 1 Plaza	19.6	
People Level 3 Bldg 1	19.1	

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Off-Site Traffic Noise Calculations

**Project: Sunset & Western**

<b>Traffic Distribution as % of ADT</b>				
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
Wilton Place										
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	1,153	11,530	10%	0	0	70.9
- Between Sunset Blvd. and Fountain Ave.	40	10	30	25	1,328	13,280	10%	0	0	71.5
- Between Fountain Ave. and Santa Monica Blvd.	40	10	30	25	1,674	16,740	10%	0	0	72.5
Western Avenue										
- Between Franklin Ave. and Hollywood Blvd.	60	10	40	35	2,177	21,770	10%	0	0	72.2
- Between Hollywood Blvd. and Sunset Blvd.	60	10	40	35	2,136	21,360	10%	0	0	72.2
- Between Sunset Blvd. and Fountain Ave.	60	10	40	35	1,940	19,400	10%	0	0	71.7
- Between Fountain Ave. and Santa Monica Blvd.	60	10	40	35	2,257	22,570	10%	0	0	72.4
Normandie Avenue										
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	955	9,550	10%	0	0	70.1
- Between Sunset Blvd. and Santa Monica Blvd.	40	10	30	25	1,622	16,220	10%	0	0	72.4
Serrano Avenue										
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	424	4,240	10%	0	0	66.5
- Between Sunset Blvd. and Fountain Ave.	40	10	30	25	379	3,790	10%	0	0	66.0
Franklin Avenue										
- Between Wilton Ave. and Western Ave.	60	10	40	30	2,891	28,910	10%	0	0	73.4
- Between Western Ave. and Normandie Ave.	60	10	40	30	1,874	18,740	10%	0	0	71.5
Hollywood Boulevard										
- Between Bronson Ave. and Wilton Pl.	60	10	40	35	2,521	25,210	10%	0	0	72.9
- Between Wilton Pl. and Western Ave.	60	10	40	35	2,265	22,650	10%	0	0	72.4
- Between Western Ave. and Normandie Ave.	60	10	40	35	2,164	21,640	10%	0	0	72.2
- Between Normandie Ave. and Vermont Ave.	60	10	40	35	2,181	21,810	10%	0	0	72.2
Sunset Boulevard										
- Between Bronson Ave. and Wilton Pl.	70	10	45	35	3,296	32,960	10%	0	0	73.5
- Between Wilton Pl. and Western Ave.	70	10	45	35	3,212	32,120	10%	0	0	73.4
- Between Western Ave. and Serrano Ave.	70	10	45	35	3,027	30,270	10%	0	0	73.2
- Between Serrano Ave. and Normandie Ave.	70	10	45	35	2,820	28,200	10%	0	0	72.9

**EXISTING CONDITIONS**

EXISTING CONDITIONS		Distance to	Distance to	Speed	Traffic Volume		PHV to	Barrier	Site	24-Hour
Roadway Segment	Roadway Width*, ft	Edge of Roadway, ft	Centerline, feet		PHV	ADT				
Fountain Avenue										
- Between Van Ness Ave. and Wilton Pl.	40	10	30	25	1,023	10,230	10%	0	0	70.4
- Between Wilton Pl. and Western Ave.	40	10	30	25	1,360	13,600	10%	0	0	71.6
- Between Western Ave. and Serrano Ave.	40	10	30	25	1,320	13,200	10%	0	0	71.5
- Between Serrano Ave. and Normandie Ave.	40	10	30	25	1,342	13,420	10%	0	0	71.5
Santa Monica Boulevard										
- Between Van Ness Ave. and Wilton Pl.	60	10	40	35	2,246	22,460	10%	0	0	72.4
- Between Wilton Pl. and Western Ave.	60	10	40	35	2,291	22,910	10%	0	0	72.5
- Between Western Ave. and Normandie Ave.	60	10	40	35	2,328	23,280	10%	0	0	72.5
- Between Normandie Ave. and Vermont Ave.	60	10	40	35	2,240	22,400	10%	0	0	72.4

\* Estimated based on Google Earth map.

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

# Off-Site Traffic Noise Calculations

## Project: Sunset & Western

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

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
Wilton Place										
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	1,161	11,610	10%	0	0	70.9
- Between Sunset Blvd. and Fountain Ave.	40	10	30	25	1,328	13,280	10%	0	0	71.5
- Between Fountain Ave. and Santa Monica Blvd.	40	10	30	25	1,674	16,740	10%	0	0	72.5
Western Avenue										
- Between Franklin Ave. and Hollywood Blvd.	60	10	40	35	2,185	21,850	10%	0	0	72.3
- Between Hollywood Blvd. and Sunset Blvd.	60	10	40	35	2,158	21,580	10%	0	0	72.2
- Between Sunset Blvd. and Fountain Ave.	60	10	40	35	1,989	19,890	10%	0	0	71.8
- Between Fountain Ave. and Santa Monica Blvd.	60	10	40	35	2,293	22,930	10%	0	0	72.5
Normandie Avenue										
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	955	9,550	10%	0	0	70.1
- Between Sunset Blvd. and Santa Monica Blvd.	40	10	30	25	1,625	16,250	10%	0	0	72.4
Serrano Avenue										
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	416	4,160	10%	0	0	66.4
- Between Sunset Blvd. and Fountain Ave.	40	10	30	25	374	3,740	10%	0	0	66.0
Franklin Avenue										
- Between Wilton Ave. and Western Ave.	60	10	40	30	2,891	28,910	10%	0	0	73.4
- Between Western Ave. and Normandie Ave.	60	10	40	30	1,874	18,740	10%	0	0	71.5
Hollywood Boulevard										
- Between Bronson Ave. and Wilton Pl.	60	10	40	35	2,538	25,380	10%	0	0	72.9
- Between Wilton Pl. and Western Ave.	60	10	40	35	2,276	22,760	10%	0	0	72.4
- Between Western Ave. and Normandie Ave.	60	10	40	35	2,161	21,610	10%	0	0	72.2
- Between Normandie Ave. and Vermont Ave.	60	10	40	35	2,177	21,770	10%	0	0	72.2
Sunset Boulevard										
- Between Bronson Ave. and Wilton Pl.	70	10	45	35	3,333	33,330	10%	0	0	73.6
- Between Wilton Pl. and Western Ave.	70	10	45	35	3,287	32,870	10%	0	0	73.5
- Between Western Ave. and Serrano Ave.	70	10	45	35	3,049	30,490	10%	0	0	73.2
- Between Serrano Ave. and Normandie Ave.	70	10	45	35	2,835	28,350	10%	0	0	72.9

**EXISTING + PROJECT CONDITIONS**

EXISTING + PROJECT CONDITIONS				Distance to	Distance to				Site	
Roadway Segment	Roadway Width*, ft	Edge of Roadway, ft	Centerline, feet	Speed mph	Traffic Volume		PHV to	Barrier	Adjust.,	24-Hour
					PHV	ADT	ADT factor	Atten.	dBA	CNEL
Fountain Avenue										
- Between Van Ness Ave. and Wilton Pl.	40	10	30	25	1,019	10,190	10%	0	0	70.3
- Between Wilton Pl. and Western Ave.	40	10	30	25	1,356	13,560	10%	0	0	71.6
- Between Western Ave. and Serrano Ave.	40	10	30	25	1,320	13,200	10%	0	0	71.5
- Between Serrano Ave. and Normandie Ave.	40	10	30	25	1,338	13,380	10%	0	0	71.5
Santa Monica Boulevard										
- Between Van Ness Ave. and Wilton Pl.	60	10	40	35	2,249	22,490	10%	0	0	72.4
- Between Wilton Pl. and Western Ave.	60	10	40	35	2,294	22,940	10%	0	0	72.5
- Between Western Ave. and Normandie Ave.	60	10	40	35	2,336	23,360	10%	0	0	72.5
- Between Normandie Ave. and Vermont Ave.	60	10	40	35	2,248	22,480	10%	0	0	72.4

\* Estimated based on Google Earth map.

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

Off-Site Traffic Noise Calculations

**Project: Sunset & Western**

<b>Traffic Distribution as % of ADT</b>				
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
Wilton Place										
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	1,322	13,220	10%	0	0	71.5
- Between Sunset Blvd. and Fountain Ave.	40	10	30	25	1,466	14,660	10%	0	0	71.9
- Between Fountain Ave. and Santa Monica Blvd.	40	10	30	25	1,856	18,560	10%	0	0	72.9
Western Avenue										
- Between Franklin Ave. and Hollywood Blvd.	60	10	40	35	2,431	24,310	10%	0	0	72.7
- Between Hollywood Blvd. and Sunset Blvd.	60	10	40	35	2,393	23,930	10%	0	0	72.6
- Between Sunset Blvd. and Fountain Ave.	60	10	40	35	2,257	22,570	10%	0	0	72.4
- Between Fountain Ave. and Santa Monica Blvd.	60	10	40	35	2,670	26,700	10%	0	0	73.1
Normandie Avenue										
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	1,060	10,600	10%	0	0	70.5
- Between Sunset Blvd. and Santa Monica Blvd.	40	10	30	25	1,784	17,840	10%	0	0	72.8
Serrano Avenue										
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	463	4,630	10%	0	0	66.9
- Between Sunset Blvd. and Fountain Ave.	40	10	30	25	415	4,150	10%	0	0	66.4
Franklin Avenue										
- Between Wilton Ave. and Western Ave.	60	10	40	30	3,240	32,400	10%	0	0	73.9
- Between Western Ave. and Normandie Ave.	60	10	40	30	2,150	21,500	10%	0	0	72.1
Hollywood Boulevard										
- Between Bronson Ave. and Wilton Pl.	60	10	40	35	3,203	32,030	10%	0	0	73.9
- Between Wilton Pl. and Western Ave.	60	10	40	35	2,879	28,790	10%	0	0	73.4
- Between Western Ave. and Normandie Ave.	60	10	40	35	2,733	27,330	10%	0	0	73.2
- Between Normandie Ave. and Vermont Ave.	60	10	40	35	2,757	27,570	10%	0	0	73.3
Sunset Boulevard										
- Between Bronson Ave. and Wilton Pl.	70	10	45	35	4,340	43,400	10%	0	0	74.7
- Between Wilton Pl. and Western Ave.	70	10	45	35	4,000	40,000	10%	0	0	74.4
- Between Western Ave. and Serrano Ave.	70	10	45	35	3,684	36,840	10%	0	0	74.0
- Between Serrano Ave. and Normandie Ave.	70	10	45	35	3,456	34,560	10%	0	0	73.7

**FUTURE NO PROJECT CONDITIONS**

FUTURE NO PROJECT CONDITIONS		Distance to	Distance to						Site	
Roadway Segment	Roadway Width*, ft	Edge of Roadway, ft	Centerline, feet	Speed mph	Traffic Volume PHV	ADT	PHV to ADT factor	Barrier Atten.	Adjust., dBA	24-Hour CNEL
Fountain Avenue										
- Between Van Ness Ave. and Wilton Pl.	40	10	30	25	1,149	11,490	10%	0	0	70.9
- Between Wilton Pl. and Western Ave.	40	10	30	25	1,530	15,300	10%	0	0	72.1
- Between Western Ave. and Serrano Ave.	40	10	30	25	1,468	14,680	10%	0	0	71.9
- Between Serrano Ave. and Normandie Ave.	40	10	30	25	1,493	14,930	10%	0	0	72.0
Santa Monica Boulevard										
- Between Van Ness Ave. and Wilton Pl.	60	10	40	35	3,122	31,220	10%	0	0	73.8
- Between Wilton Pl. and Western Ave.	60	10	40	35	3,276	32,760	10%	0	0	74.0
- Between Western Ave. and Normandie Ave.	60	10	40	35	3,072	30,720	10%	0	0	73.7
- Between Normandie Ave. and Vermont Ave.	60	10	40	35	2,669	26,690	10%	0	0	73.1

\* Estimated based on Google Earth map.

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

# Off-Site Traffic Noise Calculations

## Project: Sunset & Western

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

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
Wilton Place										
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	1,330	13,300	10%	0	0	71.5
- Between Sunset Blvd. and Fountain Ave.	40	10	30	25	1,466	14,660	10%	0	0	71.9
- Between Fountain Ave. and Santa Monica Blvd.	40	10	30	25	1,856	18,560	10%	0	0	72.9
Western Avenue										
- Between Franklin Ave. and Hollywood Blvd.	60	10	40	35	2,439	24,390	10%	0	0	72.7
- Between Hollywood Blvd. and Sunset Blvd.	60	10	40	35	2,415	24,150	10%	0	0	72.7
- Between Sunset Blvd. and Fountain Ave.	60	10	40	35	2,306	23,060	10%	0	0	72.5
- Between Fountain Ave. and Santa Monica Blvd.	60	10	40	35	2,706	27,060	10%	0	0	73.2
Normandie Avenue										
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	1,060	10,600	10%	0	0	70.5
- Between Sunset Blvd. and Santa Monica Blvd.	40	10	30	25	1,788	17,880	10%	0	0	72.8
Serrano Avenue										
- Between Hollywood Blvd. and Sunset Blvd.	40	10	30	25	455	4,550	10%	0	0	66.8
- Between Sunset Blvd. and Fountain Ave.	40	10	30	25	410	4,100	10%	0	0	66.4
Franklin Avenue										
- Between Wilton Ave. and Western Ave.	60	10	40	30	3,240	32,400	10%	0	0	73.9
- Between Western Ave. and Normandie Ave.	60	10	40	30	2,150	21,500	10%	0	0	72.1
Hollywood Boulevard										
- Between Bronson Ave. and Wilton Pl.	60	10	40	35	3,214	32,140	10%	0	0	73.9
- Between Wilton Pl. and Western Ave.	60	10	40	35	2,891	28,910	10%	0	0	73.5
- Between Western Ave. and Normandie Ave.	60	10	40	35	2,730	27,300	10%	0	0	73.2
- Between Normandie Ave. and Vermont Ave.	60	10	40	35	2,753	27,530	10%	0	0	73.3
Sunset Boulevard										
- Between Bronson Ave. and Wilton Pl.	70	10	45	35	4,378	43,780	10%	0	0	74.8
- Between Wilton Pl. and Western Ave.	70	10	45	35	4,075	40,750	10%	0	0	74.5
- Between Western Ave. and Serrano Ave.	70	10	45	35	3,706	37,060	10%	0	0	74.0
- Between Serrano Ave. and Normandie Ave.	70	10	45	35	3,472	34,720	10%	0	0	73.8



**FUTURE + PROJECT CONDITIONS**

FUTURE + PROJECT CONDITIONS				Distance to	Distance to				Site	
Roadway Segment	Roadway Width*, ft	Edge of Roadway, ft	Centerline, feet	Speed mph	Traffic Volume		PHV to	Barrier	Adjust.,	24-Hour
					PHV	ADT	ADT factor	Atten.	dBA	CNEL
Fountain Avenue										
- Between Van Ness Ave. and Wilton Pl.	40	10	30	25	1,145	11,450	10%	0	0	70.8
- Between Wilton Pl. and Western Ave.	40	10	30	25	1,526	15,260	10%	0	0	72.1
- Between Western Ave. and Serrano Ave.	40	10	30	25	1,468	14,680	10%	0	0	71.9
- Between Serrano Ave. and Normandie Ave.	40	10	30	25	1,489	14,890	10%	0	0	72.0
Santa Monica Boulevard										
- Between Van Ness Ave. and Wilton Pl.	60	10	40	35	3,125	31,250	10%	0	0	73.8
- Between Wilton Pl. and Western Ave.	60	10	40	35	3,279	32,790	10%	0	0	74.0
- Between Western Ave. and Normandie Ave.	60	10	40	35	3,080	30,800	10%	0	0	73.7
- Between Normandie Ave. and Vermont Ave.	60	10	40	35	2,677	26,770	10%	0	0	73.1

\* Estimated based on Google Earth map.

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