

Appendix F

Noise Calculation Worksheets

222 West 2nd Project

Noise Calculations Worksheets

Provided by Acoustical Engineering Services

Ambient Noise Measurements

Location: R1
 Date: 6/5/17 (Monday)

Time	Overload	Leq	Lmax	L10	L90
10:00:26 AM	No	68.2	81.7	69.4	59.3
10:01:26 AM	No	68.9	79.7	71.7	61
10:02:26 AM	No	66.4	74.7	70.3	59.2
10:03:26 AM	No	67.9	75	72.2	58.3
10:04:26 AM	No	63.1	74.8	65.3	58.4
10:05:26 AM	No	67.8	74	71.7	60
10:06:26 AM	No	65.7	75	68.8	59.3
10:07:26 AM	No	65	74.1	68.8	59.5
10:08:26 AM	No	65.6	71.1	69.1	58.7
10:09:26 AM	No	64.8	70.9	67.3	61.6
10:10:26 AM	No	65.5	70	68.2	61.2
10:11:26 AM	No	63.9	71	67.1	59.4
10:12:26 AM	No	63.2	69.4	66.6	58.2
10:13:26 AM	No	70.4	83.2	74.8	59.3
10:14:26 AM	No	67	75.9	69.7	59.2
		66.7			

Time	Overload	Leq	Lmax	L10	L90
9:59:38 PM	No	63.8	75.3	68.3	52.7
10:00:38 PM	No	56.7	64.3	59.3	52.1
10:01:38 PM	No	58.4	70.2	60.4	53.3
10:02:38 PM	No	62	69.1	66.4	53.8
10:03:38 PM	No	60.4	66.3	64.3	53.3
10:04:38 PM	No	57.6	64.9	59.9	53.2
10:05:38 PM	No	56.5	62.9	60.3	51
10:06:38 PM	No	58	64.7	61.3	52.6
10:07:38 PM	No	58.9	67	63.3	53.9
10:08:38 PM	No	60.1	69.3	63.3	51.2
10:09:38 PM	No	76	87	81.3	56.6
10:10:38 PM	No	59	66.7	62	52
10:11:38 PM	No	58.4	66.4	62.2	52.2
10:12:38 PM	No	60.7	71.3	64.8	52.9
10:13:38 PM	No	70.1	78.2	75.9	56.4
		66.2			

Location: P1
 Date: 6/5/17 (Monday)

Time	Overload	Leq	Lmax	L10	L90
11:53:17 AM	No	67.5	73.8	70.6	64
11:54:17 AM	No	67.3	73.4	70.5	63.7
11:55:17 AM	No	67.5	73.6	69.8	64.2
11:56:17 AM	No	65.2	70.1	67.2	63.3
11:57:17 AM	No	65.7	72.3	67.2	63.4
11:58:17 AM	No	67.5	75.6	71.2	61.6
11:59:17 AM	No	67.3	74.5	70.8	61.8
12:00:17 PM	No	65	71.9	67.1	62.1
12:01:17 PM	No	66.9	75.6	70.1	62.6
12:02:17 PM	No	64.9	69.2	66.9	62.2
12:03:17 PM	No	66.1	71.5	68.9	62.6
12:04:17 PM	No	66	71.7	69.5	62.4
12:05:17 PM	No	68	77.5	70.7	63.8
12:06:17 PM	No	67.4	71.5	70	63.3
12:07:17 PM	No	63.9	68.4	66	62.1
		66.6			

Time	Overload	Leq	Lmax	L10	L90
11:33:20 PM	No	64.5	76.6	67.2	56.4
11:34:20 PM	No	60	67.5	64.5	56.2
11:35:20 PM	No	58.9	66.5	62.3	56
11:36:20 PM	No	73.5	84.1	75.8	55.9
11:37:20 PM	No	67.4	80.5	70.5	58.1
11:38:20 PM	No	62.4	69.7	66.6	57.2
11:39:20 PM	No	69.8	82.4	70.8	57.8
11:40:20 PM	No	61.3	71.2	65.2	56
11:41:20 PM	No	57.8	64.2	60.8	55.8
11:42:20 PM	No	58.6	66.6	61.6	55.9
11:43:20 PM	No	58.8	68.6	60.6	55.9
11:44:20 PM	No	65.1	75.9	70.7	56.3
11:45:20 PM	No	62.3	69.7	67.2	56.7
11:46:20 PM	No	58.1	67.7	59.6	55.9
11:47:20 PM	No	59.4	71.3	61.5	55.9
		65.5			

Location: P1
 Date: 6/4/2017 (Sunday)

Time	Overload	Leq	Lmax	L10	L90
12:00:22 PM	No	68.6	74.6	72.6	62.5
12:01:22 PM	No	64.6	72.4	68.3	61.4
12:02:22 PM	No	65.8	72	68.5	62.4
12:03:22 PM	No	66.6	72.2	70.1	62.1
12:04:22 PM	No	65.9	74.5	67.9	63
12:05:22 PM	No	66	74.6	68.7	61.7
12:06:22 PM	No	66.8	73.2	70.5	63.2
12:07:22 PM	No	65.7	73.4	68.5	61.6
12:08:22 PM	No	68.8	78.8	71.2	62.9
12:09:22 PM	No	64.9	70.2	67.7	62.4
12:10:22 PM	No	64.5	71.2	68.4	61.2
12:11:22 PM	No	69.4	79.6	72.5	63.2
12:12:22 PM	No	67.3	71.9	70.3	63.3
12:13:22 PM	No	65.4	71.8	69.3	61.8
12:14:22 PM	No	63.3	70.9	65.9	60.8
		66.6			

Time	Overload	Leq	Lmax	L10	L90
11:38:16 PM	No	60.8	69.3	62.2	58
11:39:16 PM	No	58.8	62.5	60.2	57.9
11:40:16 PM	No	59.2	63.3	60.5	57.5
11:41:16 PM	No	61.8	72	64.3	57.8
11:42:16 PM	No	63.7	74.5	67	58.6
11:43:16 PM	No	62.5	69.7	66.8	58.6
11:44:16 PM	No	63.1	71.2	67.1	58.1
11:45:16 PM	No	62.8	73.3	64.5	57.9
11:46:16 PM	No	58.4	64.7	60.2	57.5
11:47:16 PM	No	60.7	71.1	63.1	58
11:48:16 PM	No	61.4	71.7	63.3	58.1
11:49:16 PM	No	61.2	70.2	62.9	58.1
11:50:16 PM	No	61.7	69.4	65.6	57.8
11:51:16 PM	No	58.8	63.1	59.6	57.9
11:52:16 PM	No	67.6	77	72	59.9
		62.2			

Location: R1
 Date: 6/4/2017 (Sunday)

Time	Overload	Leq	Lmax	L10	L90
10:00:35 AM	No	56.4	60.8	59	54.3
10:01:35 AM	No	60.8	69.3	64.8	55.4
10:02:35 AM	No	59.8	65.9	62.1	57.1
10:03:35 AM	No	59.4	68.9	63.2	54.6
10:04:35 AM	No	58.3	66.3	59.8	55.1
10:05:35 AM	No	60.1	68.1	64.1	53.8
10:06:35 AM	No	60.7	64.7	63.3	56.6
10:07:35 AM	No	64.5	72	69.7	54.1
10:08:35 AM	No	58.4	68.7	59.8	53.9
10:09:35 AM	No	59.1	65.1	62.1	53.6
10:10:35 AM	No	61.3	72.7	66	53.4
10:11:35 AM	No	61	69	65.1	55.3
10:12:35 AM	No	58	64.1	61.5	53.7
10:13:35 AM	No	64.1	72	68.3	56.1
10:14:35 AM	No	60.9	68.7	64.9	53.4
		60.7			

Time	Overload	Leq	Lmax	L10	L90
10:00:23 PM	No	61.3	70.3	66.9	54.6
10:01:23 PM	No	62.5	74	65.5	58
10:02:23 PM	No	64.3	72.8	68.5	56.1
10:03:23 PM	No	73.2	87.8	73.2	55.2
10:04:23 PM	No	84.6	99.4	87.4	56.1
10:05:23 PM	No	62	70.5	66.6	55.3
10:06:23 PM	No	58.6	65.8	61	54.5
10:07:23 PM	No	57.1	63.6	58.1	55.1
10:08:23 PM	No	61.6	69.2	65	56.9
10:09:23 PM	No	56.6	61.9	58.8	54.4
10:10:23 PM	No	60.7	71.2	63.7	55.6
10:11:23 PM	No	63.7	70.2	67.3	57.8
10:12:23 PM	No	61.4	69.5	65.7	56.4
10:13:23 PM	No	65.9	77.3	71.4	53.9
10:14:23 PM	No	64.3	73	68.1	57.3
		64.9			

Location: R2
 Date: 6/5/17 (Monday)

Time	Overload	Leq	Lmax	L10	L90
10:20:39 AM	No	68.2	77.2	69.6	65.2
10:21:39 AM	No	66.9	69.3	68	65.5
10:22:39 AM	No	70	80.1	73.4	61.6
10:23:39 AM	No	62.5	69.5	65.5	58.3
10:24:39 AM	No	66.9	72.8	70.9	61.1
10:25:39 AM	No	64.9	74	66.3	61
10:26:39 AM	No	67.7	75.9	73.2	56.8
10:27:39 AM	No	68.6	77.5	71.3	62.6
10:28:39 AM	No	64.7	70.3	68.1	58.1
10:29:39 AM	No	65	69.6	68.5	62.1
10:30:39 AM	No	65.5	72.8	71	59.5
10:31:39 AM	No	74.3	86.6	77.6	58.9
10:32:39 AM	No	65.3	74.7	69.7	57.7
10:33:39 AM	No	73.2	88.6	70.4	61.2
10:34:39 AM	No	67.9	80.4	71.1	59.7
		68.7			

Time	Overload	Leq	Lmax	L10	L90
10:18:29 PM	No	63.6	67.9	67.2	56.4
10:19:29 PM	No	60	68	63.3	54
10:20:29 PM	No	63.8	71.6	69.6	53.1
10:21:29 PM	No	60.9	69	65.1	53.5
10:22:29 PM	No	58.7	63.6	62.6	53.6
10:23:29 PM	No	67.7	79.6	71.1	56.9
10:24:29 PM	No	62.4	69.4	65.5	55.9
10:25:29 PM	No	61.8	72.3	66.1	54.1
10:26:29 PM	No	62.4	69.6	68.3	52.6
10:27:29 PM	No	66.5	77.9	69.5	53.6
10:28:29 PM	No	65.6	77.6	70.7	53.8
10:29:29 PM	No	70.6	81.6	76.2	57.5
10:30:29 PM	No	63.9	69.9	67.9	56.8
10:31:29 PM	No	63.4	73.8	66.7	54.1
10:32:29 PM	No	71	84.9	74.1	52.8
		65.7			

Location: R2
 Date: 6/4/2017 (Sunday)

Time	Overload	Leq	Lmax	L10	L90
10:38:36 AM	No	68.1	72.6	70.3	64.5
10:39:36 AM	No	72.7	81.1	77.8	61.7
10:40:36 AM	No	67.7	77.9	71.6	59.1
10:41:36 AM	No	64.8	73.7	70.4	57.9
10:42:36 AM	No	61.6	68.4	64	57.9
10:43:36 AM	No	64.9	73.2	66.8	62
10:44:36 AM	No	69.4	79.5	73.3	61.7
10:45:36 AM	No	60.7	65.5	63.1	57.5
10:46:36 AM	No	61.7	68.6	67.1	56
10:47:36 AM	No	64.4	70.8	68.4	57.3
10:48:36 AM	No	63.5	68.4	66.3	57.8
10:49:36 AM	No	59.9	67.8	63.9	56.1
10:50:36 AM	No	69.7	82.1	70	60.1
10:51:36 AM	No	72.4	81.7	77	62.6
10:52:36 AM	No	65	73.2	68.7	60.8
		67.6			

Time	Overload	Leq	Lmax	L10	L90
10:20:00 PM	No	63.8	70.5	69.4	57
10:21:00 PM	No	59.5	65.1	61.7	56.1
10:22:00 PM	No	61.7	69.5	66.5	52.6
10:23:00 PM	No	59.5	67.4	61.8	54.1
10:24:00 PM	No	64.9	75.4	69.9	54
10:25:00 PM	No	67.5	79	71.1	56
10:26:00 PM	No	61	68.7	64.1	54.2
10:27:00 PM	No	62.1	69.4	67	55
10:28:00 PM	No	65.1	76.2	68.9	54.6
10:29:00 PM	No	60.1	67.4	64.6	52.5
10:30:00 PM	No	54.9	60.4	57.9	51
10:31:00 PM	No	68.6	78.2	74.3	51.7
10:32:00 PM	No	61.9	71	66.2	55.9
10:33:00 PM	No	59.3	66.2	62.7	53.4
10:34:00 PM	No	64.5	71.5	69.3	54.7
		63.6			

Location: R3
 Date: 6/5/17 (Monday)

Time	Overload	Leq	Lmax	L10	L90
10:39:41 AM	No	62.2	69.6	64.2	59.6
10:40:41 AM	No	69.7	79.3	74	59.2
10:41:41 AM	No	67.8	76.4	72.5	60.6
10:42:41 AM	No	71.1	80.8	76.2	60
10:43:41 AM	No	69.7	76.3	73.8	61.8
10:44:41 AM	No	62.9	66.3	64.3	60.8
10:45:41 AM	No	63.7	74.4	66.7	56.9
10:46:41 AM	No	67.9	78	70.9	57.7
10:47:41 AM	No	66.1	80.6	67.5	58.5
10:48:41 AM	No	70.3	81.6	75.4	58.8
10:49:41 AM	No	69.6	79.8	75.1	54.2
10:50:41 AM	No	63.9	76.3	65.9	57.7
10:51:41 AM	No	68.6	77.2	74.9	60.4
10:52:41 AM	No	72.3	84.2	76.4	57.5
10:53:41 AM	No	66.9	77.8	67.3	59.1
		68.5			

Time	Overload	Leq	Lmax	L10	L90
10:36:12 PM	No	61.6	69.6	65	55.2
10:37:12 PM	No	65.4	75.7	69.1	57.8
10:38:12 PM	No	59.2	68.7	61.4	54.8
10:39:12 PM	No	64.4	76.5	67.5	54.3
10:40:12 PM	No	58.2	64.9	61	54.3
10:41:12 PM	No	64.4	69.8	67.6	58.1
10:42:12 PM	No	65.9	76	70.2	57.1
10:43:12 PM	No	60.1	68.2	63.3	54.3
10:44:12 PM	No	61.3	67.2	64.9	54.1
10:45:12 PM	No	62.9	70.6	66.4	55.8
10:46:12 PM	No	60.3	66.3	64.4	55.3
10:47:12 PM	No	71.2	82.7	75.8	57.6
10:48:12 PM	No	62.3	73.6	64.9	54.2
10:49:12 PM	No	59.3	71	60.9	52.1
10:50:12 PM	No	61.9	69.7	65.1	54.7
		64.1			

Location: R3
 Date: 6/4/2017 (Sunday)

Time	Overload	Leq	Lmax	L10	L90
10:57:11 AM	No	60.4	68.6	62	57.3
10:58:11 AM	No	60.6	65.3	64	56.8
10:59:11 AM	No	61.2	64.1	62.9	59.6
11:00:11 AM	No	60.1	64.8	63.1	56.1
11:01:11 AM	No	60	66	63.4	56.5
11:02:11 AM	No	57.3	61	59.2	53.5
11:03:11 AM	No	61.1	66	64.6	55.7
11:04:11 AM	No	67.2	78.6	70.6	58.8
11:05:11 AM	No	65.4	75.1	69.2	58.3
11:06:11 AM	No	62.9	66.4	65.4	59.8
11:07:11 AM	No	68.4	75.6	71	61.2
11:08:11 AM	No	64.2	68.9	66.9	61.5
11:09:11 AM	No	66.7	77.2	69.4	58
11:10:11 AM	No	60.2	64.4	62.5	57.3
11:11:11 AM	No	58.8	64.9	61.1	55.4
		63.6			

Time	Overload	Leq	Lmax	L10	L90
10:37:38 PM	No	63.7	71.2	66.3	57.3
10:38:38 PM	No	59.8	68.9	62.2	54.6
10:39:38 PM	No	62.2	70.5	64.5	57.7
10:40:38 PM	No	63.6	70.4	67.7	56.6
10:41:38 PM	No	56	60	57.8	54.3
10:42:38 PM	No	64.3	71.5	68.3	57.6
10:43:38 PM	No	60	67.2	64.5	54.3
10:44:38 PM	No	61.7	68.1	63.5	58.1
10:45:38 PM	No	65.1	78	69.2	53
10:46:38 PM	No	56.5	61.4	59.1	53
10:47:38 PM	No	61.6	70.5	64.6	55.9
10:48:38 PM	No	61.1	68.4	63.5	58.1
10:49:38 PM	No	60.9	67.8	65	56.5
10:50:38 PM	No	62.7	73.2	66.2	55.2
10:51:38 PM	No	60	69.6	63.4	55.8
		61.9			

Location: R4
Date: 6/5/17 (Monday)

Time	Overload	Leq	Lmax	L10	L90
11:01:11 AM	No	65.7	72.4	68.6	62.2
11:02:11 AM	No	62.8	67.1	64.5	61.6
11:03:11 AM	No	63.1	71.5	63.6	61.6
11:04:11 AM	No	63.8	70.2	66.1	62.4
11:05:11 AM	No	65.1	71.6	67.9	62
11:06:11 AM	No	64.5	72.2	66.8	62
11:07:11 AM	No	69.7	83.3	71.7	63.2
11:08:11 AM	No	64.9	72.8	66.7	62.5
11:09:11 AM	No	65.1	71.1	68.1	62.4
11:10:11 AM	No	69.7	75.9	74.2	64.5
11:11:11 AM	No	72	82.1	76	63.5
11:12:11 AM	No	64.7	67.8	66.7	63.1
11:13:11 AM	No	64.9	67.5	66.3	63.7
11:14:11 AM	No	64.6	67.5	65.6	63.6
11:15:11 AM	No	64.9	70.5	67	62.7
		66.6			

Time	Overload	Leq	Lmax	L10	L90
10:54:38 PM	No	54.6	61.7	56.9	52.1
10:55:38 PM	No	60.3	69.5	64.5	52.4
10:56:38 PM	No	56.8	62.9	60.1	53
10:57:38 PM	No	57.6	63.5	61.6	52.9
10:58:38 PM	No	55.9	64	59.5	52.7
10:59:38 PM	No	55.3	61.8	58.9	52.5
11:00:38 PM	No	56.7	65.6	58.3	53.2
11:01:38 PM	No	54.5	60.7	56	52.7
11:02:38 PM	No	65.4	77.7	70.6	53.8
11:03:38 PM	No	59.8	69.1	62.9	53.6
11:04:38 PM	No	59.7	68	63.5	52.8
11:05:38 PM	No	56.4	64	59.9	52.3
11:06:38 PM	No	57.2	64.9	60.2	52.7
11:07:38 PM	No	57.7	63.7	61	54.2
11:08:38 PM	No	56.2	64.2	58.8	52.8
		58.7			

Location: R4
 Date: 6/4/2017 (Sunday)

Time	Overload	Leq	Lmax	L10	L90
11:18:06 AM	No	61	67.6	62.2	59.3
11:19:06 AM	No	62.4	69.3	65.6	59.3
11:20:06 AM	No	60.2	63.6	62.3	58.1
11:21:06 AM	No	61.5	69.7	63.5	58.1
11:22:06 AM	No	60.5	68.2	64.1	57.5
11:23:06 AM	No	62	70.9	64	58.5
11:24:06 AM	No	60.1	66.7	61.7	57.7
11:25:06 AM	No	58.8	66	60.7	57.1
11:26:06 AM	No	60.5	66.8	63.8	57.5
11:27:06 AM	No	61.3	67.8	64.1	57.4
11:28:06 AM	No	63	70.9	65.8	59
11:29:06 AM	No	65.5	73.8	70	58.8
11:30:06 AM	No	60.5	65.2	62.1	58.1
11:31:06 AM	No	60.4	67	63	57.2
11:32:06 AM	No	60	66.6	63.2	57.2

61.5

Time	Overload	Leq	Lmax	L10	L90
12:16:48 AM	No	64.4	70.3	66.9	59.1
12:17:48 AM	No	69	77.4	74.9	57.8
12:18:48 AM	No	59.5	64.8	62.5	56.8
12:19:48 AM	No	64.9	74.9	70.1	57
12:20:48 AM	No	60.4	68.2	64.1	57.3
12:21:48 AM	No	58.7	63.7	61	57.2
12:22:48 AM	No	58.6	60.8	59.6	57.7
12:23:48 AM	No	68.4	77.4	72.3	58.1
12:24:48 AM	No	65.9	71	70	60.2
12:25:48 AM	No	61.5	67.5	63.7	58.9
12:26:48 AM	No	60.8	68.3	64.4	57.3
12:27:48 AM	No	60.1	66.2	64.2	57.5
12:28:48 AM	No	74.4	82.3	80.3	60.7
12:29:48 AM	No	60.4	68.7	62.9	57.2
12:30:48 AM	No	59.6	65.9	63.3	56.9

66.1

Location: R5
 Date: 6/5/17 (Monday)

Time	Overload	Leq	Lmax	L10	L90
11:21:15 AM	No	65	69.3	67.3	62.2
11:22:15 AM	No	62.6	67.4	64.3	60.4
11:23:15 AM	No	65.6	72.1	68.9	60.8
11:24:15 AM	No	66.1	70.8	69.7	60.8
11:25:15 AM	No	64.7	72	67	61.6
11:26:15 AM	No	69.2	78.5	73.2	60.5
11:27:15 AM	No	65.7	71.4	68.4	61.7
11:28:15 AM	No	63.4	68	65.2	61.3
11:29:15 AM	No	65	69.5	68	60.4
11:30:15 AM	No	65.1	70.1	68.1	60.1
11:31:15 AM	No	63	67.1	64.8	60.8
11:32:15 AM	No	65.6	74	67.7	60.2
11:33:15 AM	No	64.1	68.4	67	60.5
11:34:15 AM	No	62.7	72	64.5	59.9
11:35:15 AM	No	66.5	73.7	70.6	59.6

65.3

Time	Overload	Leq	Lmax	L10	L90
11:13:22 PM	No	60.1	67.8	61.4	58.5
11:14:22 PM	No	64.5	72.2	69.6	59.3
11:15:22 PM	No	63.9	70.9	68.2	59.1
11:16:22 PM	No	61.5	71	64.8	56.6
11:17:22 PM	No	62.7	72.7	68.2	56.7
11:18:22 PM	No	60.1	70.4	62.2	57.1
11:19:22 PM	No	60.7	69.1	64.7	56.5
11:20:22 PM	No	63.5	70.9	67.4	57.5
11:21:22 PM	No	65.2	74.4	69.5	57.3
11:22:22 PM	No	62.6	69.4	67.9	56
11:23:22 PM	No	62.1	72.5	65.1	57.7
11:24:22 PM	No	59.2	64.5	60.1	58.1
11:25:22 PM	No	60.7	68	63.5	57.7
11:26:22 PM	No	60.9	66.6	63	58.5
11:27:22 PM	No	61.2	67.2	64.2	57.8

62.3

Location: R5
 Date: 6/4/2017 (Sunday)

Time	Overload	Leq	Lmax	L10	L90
11:39:46 AM	No	62.4	70.2	66.8	56.1
11:40:46 AM	No	63.3	69.7	67.1	55.5
11:41:46 AM	No	63.1	73.8	68.3	55.2
11:42:46 AM	No	65.1	71.2	70.2	55
11:43:46 AM	No	63.6	68.8	67.1	53.8
11:44:46 AM	No	61.5	71.8	65.7	54.5
11:45:46 AM	No	65.9	72.2	70.8	56.5
11:46:46 AM	No	64.6	71.8	68.4	56.9
11:47:46 AM	No	62.8	71.2	68.9	56.2
11:48:46 AM	No	65.5	73.3	69.8	56.7
11:49:46 AM	No	64	71.9	68.2	56.4
11:50:46 AM	No	59.6	70	62.1	56.2
11:51:46 AM	No	64.2	73.4	67.9	56.4
11:52:46 AM	No	65.2	71.4	68.7	55.7
11:53:46 AM	No	61.5	70.7	64	56.5
		63.8			

Time	Overload	Leq	Lmax	L10	L90
11:18:16 PM	No	63.4	71.4	66.7	54
11:19:16 PM	No	58.6	64.8	61.9	53.9
11:20:16 PM	No	67.6	76.7	72.4	56.1
11:21:16 PM	No	64	73.1	68.9	55.1
11:22:16 PM	No	64.6	74.9	69.4	54.7
11:23:16 PM	No	58.7	65.6	62.5	54.2
11:24:16 PM	No	60.9	67.4	64.1	55.5
11:25:16 PM	No	65.4	77.1	69.7	53.5
11:26:16 PM	No	58.9	67.1	62.5	53.2
11:27:16 PM	No	54.2	59.6	55.5	52.8
11:28:16 PM	No	60.6	68.9	66.6	53.1
11:29:16 PM	No	58.8	67.8	61.9	54.4
11:30:16 PM	No	58.6	63.7	62	55.3
11:31:16 PM	No	67.3	74	71.9	62.5
11:32:16 PM	No	60.6	67.2	63.9	54.8
		63.0			

Location: R6
Date: 6/5/17 (Monday)

Time	Overload	Leq	Lmax	L10	L90
12:11:44 PM	No	65.6	75.5	68.9	57.4
12:12:44 PM	No	68.1	75.7	70.1	63
12:13:44 PM	No	61.2	66.8	63.3	58.9
12:14:44 PM	No	63	68.5	66.5	59.3
12:15:44 PM	No	67.1	73	70.2	63.6
12:16:44 PM	No	75.6	86.6	80.2	60.2
12:17:44 PM	No	64.5	71.8	68.1	60
12:18:44 PM	No	69.4	80	73.2	60
12:19:44 PM	No	67.6	73.1	70.2	65
12:20:44 PM	No	66.3	74.3	68.4	62.5
12:21:44 PM	No	84.4	96.3	90.7	66
12:22:44 PM	No	66.4	74.5	71.7	58.9
12:23:44 PM	No	63	67.8	65.5	59.9
12:24:44 PM	No	64.4	68.9	67.8	58.1
12:25:44 PM	No	67.9	76.6	72.1	60

68.2

Time	Overload	Leq	Lmax	L10	L90
11:51:02 PM	No	65.6	76.1	69.2	57.3
11:52:02 PM	No	64.4	74	67.8	57.5
11:53:02 PM	No	68.1	78	73	54.4
11:54:02 PM	No	63.9	73	68.2	53.5
11:55:02 PM	No	60.5	69.1	63.3	54.1
11:56:02 PM	No	54.8	61	58.7	51.7
11:57:02 PM	No	69.5	77.8	74.6	55.7
11:58:02 PM	No	59	67.6	61.8	52.8
11:59:02 PM	No	61.4	67.7	64.5	57.1
12:00:02 AM	No	61.1	70.2	65.2	56.3
12:01:02 AM	No	63.1	71.1	67.7	56.4
12:02:02 AM	No	64.8	74.5	70.3	56.9
12:03:02 AM	No	78.3	86	85.3	61.6
12:04:02 AM	No	65.5	73	69.3	59.3
12:05:02 AM	No	65.3	74.2	70.3	58.8

68.6

Location: R6
 Date: 6/4/2017 (Sunday)

Time	Overload	Leq	Lmax	L10	L90
12:19:28 PM	No	62.7	72.1	67.2	55.3
12:20:28 PM	No	64.6	71.9	69.2	54.7
12:21:28 PM	No	63	70.6	67.7	52.8
12:22:28 PM	No	62.4	69.1	66	56.3
12:23:28 PM	No	65	71.9	68.9	58.8
12:24:28 PM	No	65.8	70.5	69.2	59.2
12:25:28 PM	No	63	69.4	67.5	56.1
12:26:28 PM	No	61.7	67.5	64.8	56.3
12:27:28 PM	No	65	72	68.7	56.9
12:28:28 PM	No	61.8	67.9	66.1	54.6
12:29:28 PM	No	68	74.6	72	61.1
12:30:28 PM	No	64.3	70.9	68	54.9
12:31:28 PM	No	60.8	65.9	64.1	55.7
12:32:28 PM	No	66.2	71.7	69.2	59.2
12:33:28 PM	No	62.6	67.1	65.9	57.3
		64.2			

Time	Overload	Leq	Lmax	L10	L90
11:56:18 PM	No	63.3	72.2	67.5	55.7
11:57:18 PM	No	62.3	71.7	67.5	51.3
11:58:18 PM	No	64.1	73.8	66.3	52.1
11:59:18 PM	No	62.1	70.1	66.4	53.4
12:00:18 AM	No	64.5	74.1	68.4	55.5
12:01:18 AM	No	64.7	72	70.1	52.7
12:02:18 AM	No	63.1	73.7	67.4	51.7
12:03:18 AM	No	58.7	66.4	62.5	51.9
12:04:18 AM	No	60.8	70.9	63.1	50.4
12:05:18 AM	No	63.6	69.7	67.8	53.3
12:06:18 AM	No	60.1	68.7	64.1	50.3
12:07:18 AM	No	63.2	72.7	67.4	50.4
12:08:18 AM	No	64.5	71.4	68.2	53.8
12:09:18 AM	No	63	72.3	67.8	49.7
12:10:18 AM	No	56.9	65.2	62	49.9
		62.8			

Construction Noise & Vibration Calculations

Project: 222 West 2nd Project EIR

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%	300	5
Loader	2	79	40%	300	5
Air Compressor	1	78	40%	300	5
Tractor/Loader/Backhoe	1	79	40%	300	5

Receptor: 5
R1

Results:
1-hour Leq: 64.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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
Grader	1	85	40%	300	5
Bore/Drill Rig	1	84	20%	300	5
Bulldozer	1	82	40%	300	5
Crane	1	81	16%	300	5
Excavator	1	81	40%	300	5
Plate Compactor	1	83	20%	300	5

6

Receptor: **R1**

Results:
1-hour Leq: 64.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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 Compactors	1	83	20%	300	5
Concrete Pump	1	81	20%	300	5
Backhoe	2	78	40%	300	5
Crawler Crane	1	81	16%	300	5
Welders	1	74	40%	300	5
Plate Compactors	1	83	20%	300	5
Concrete Pump	1	81	20%	300	5

8

Receptor: **R1**

Results:
1-hour Leq: **62.7**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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
Crane (tower)	1	81	16%	300	5
Cutoff Saw	1	84	20%	300	5
Concrete Pump	1	81	20%	300	5
Crawler Crane	1	81	16%	300	5
Welders	15	74	40%	300	5
Cutoff Saw	2	84	20%	300	5
Air Compressor	2	78	40%	300	5
Aerial Lift	3	75	20%	300	5
Forklift	5	75	20%	300	5
Man Lift	2	75	20%	300	5

33

Receptor: **R1**

Results:
1-hour Leq: 66.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

Construction Phase: Paving/Concrete/Landscape

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%	300	5
Tractor/Loader/Backhoe	1	79	40%	300	5
Skid Steer Loader	1	79	40%	300	5
Roller	1	80	20%	300	5
Paving Equipment	1	77	50%	300	5

Receptor: 5
R1

Results:
1-hour Leq: 64.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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%	295	5
Loader	2	79	40%	295	5
Air Compressor	1	78	40%	295	5
Tractor/Loader/Backhoe	1	79	40%	295	5

Receptor: 5
R2

Results:
1-hour Leq: 64.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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
Grader	1	85	40%	295	5
Bore/Drill Rig	1	84	20%	295	5
Bulldozer	1	82	40%	295	5
Crane	1	81	16%	295	5
Excavator	1	81	40%	295	5
Plate Compactor	1	83	20%	295	5

6

Receptor: **R2**

Results:
1-hour Leq: 65.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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 Compactors	1	83	20%	295	5
Concrete Pump	1	81	20%	295	5
Backhoe	2	78	40%	295	5
Crawler Crane	1	81	16%	295	5
Welders	1	74	40%	295	5
Plate Compactors	1	83	20%	295	5
Concrete Pump	1	81	20%	295	5

8

Receptor: **R2**

Results:
1-hour Leq: **62.8**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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
Crane (tower)	1	81	16%	295	5
Cutoff Saw	1	84	20%	295	5
Concrete Pump	1	81	20%	295	5
Crawler Crane	1	81	16%	295	5
Welders	15	74	40%	295	5
Cutoff Saw	2	84	20%	295	5
Air Compressor	2	78	40%	295	5
Aerial Lift	3	75	20%	295	5
Forklift	5	75	20%	295	5
Man Lift	2	75	20%	295	5

33

Receptor: **R2**

Results:
1-hour Leq: 66.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

Construction Phase: Paving/Concrete/Landscape

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%	295	5
Tractor/Loader/Backhoe	1	79	40%	295	5
Skid Steer Loader	1	79	40%	295	5
Roller	1	80	20%	295	5
Paving Equipment	1	77	50%	295	5

Receptor: 5
R2

Results:
1-hour Leq: 64.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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%	340	5
Loader	2	79	40%	340	5
Air Compressor	1	78	40%	340	5
Tractor/Loader/Backhoe	1	79	40%	340	5

Receptor: 5
R3

Results:
1-hour Leq: 63.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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
Grader	1	85	40%	340	5
Bore/Drill Rig	1	84	20%	340	5
Bulldozer	1	82	40%	340	5
Crane	1	81	16%	340	5
Excavator	1	81	40%	340	5
Plate Compactor	1	83	20%	340	5

6

Receptor: **R3**

Results:
1-hour Leq: 63.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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 Compactors	1	83	20%	340	5
Concrete Pump	1	81	20%	340	5
Backhoe	2	78	40%	340	5
Crawler Crane	1	81	16%	340	5
Welders	1	74	40%	340	5
Plate Compactors	1	83	20%	340	5
Concrete Pump	1	81	20%	340	5

8

Receptor: R3

Results:
1-hour Leq: 61.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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
Crane (tower)	1	81	16%	340	5
Cutoff Saw	1	84	20%	340	5
Concrete Pump	1	81	20%	340	5
Crawler Crane	1	81	16%	340	5
Welders	15	74	40%	340	5
Cutoff Saw	2	84	20%	340	5
Air Compressor	2	78	40%	340	5
Aerial Lift	3	75	20%	340	5
Forklift	5	75	20%	340	5
Man Lift	2	75	20%	340	5

33

Receptor: **R3**

Results:
1-hour Leq: 65.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

Construction Phase: Paving/Concrete/Landscape

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%	340	5
Tractor/Loader/Backhoe	1	79	40%	340	5
Skid Steer Loader	1	79	40%	340	5
Roller	1	80	20%	340	5
Paving Equipment	1	77	50%	340	5

Receptor: 5
R3

Results:
1-hour Leq: 63.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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%	245	5
Loader	2	79	40%	245	5
Air Compressor	1	78	40%	245	5
Tractor/Loader/Backhoe	1	79	40%	245	5

Receptor: 5
R4

Results:
1-hour Leq: 66.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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
Grader	1	85	40%	245	5
Bore/Drill Rig	1	84	20%	245	5
Bulldozer	1	82	40%	245	5
Crane	1	81	16%	245	5
Excavator	1	81	40%	245	5
Plate Compactor	1	83	20%	245	5

6

Receptor: *R4*

Results:
1-hour Leq: 66.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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 Compactors	1	83	20%	245	5
Concrete Pump	1	81	20%	245	5
Backhoe	2	78	40%	245	5
Crawler Crane	1	81	16%	245	5
Welders	1	74	40%	245	5
Plate Compactors	1	83	20%	245	5
Concrete Pump	1	81	20%	245	5

8

Receptor: *R4*

Results:

1-hour Leq: 64.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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
Crane (tower)	1	81	16%	245	5
Cutoff Saw	1	84	20%	245	5
Concrete Pump	1	81	20%	245	5
Crawler Crane	1	81	16%	245	5
Welders	15	74	40%	245	5
Cutoff Saw	2	84	20%	245	5
Air Compressor	2	78	40%	245	5
Aerial Lift	3	75	20%	245	5
Forklift	5	75	20%	245	5
Man Lift	2	75	20%	245	5

33

Receptor: ***R4***

Results:
1-hour Leq: 68.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

Construction Phase: Paving/Concrete/Landscape

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%	245	5
Tractor/Loader/Backhoe	1	79	40%	245	5
Skid Steer Loader	1	79	40%	245	5
Roller	1	80	20%	245	5
Paving Equipment	1	77	50%	245	5

Receptor: 5
R4

Results:
1-hour Leq: 66.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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%	495	10
Loader	2	79	40%	495	10
Air Compressor	1	78	40%	520	10
Tractor/Loader/Backhoe	1	79	40%	520	10

Receptor: 5
R5

Results:
1-hour Leq: 55.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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
Grader	1	85	40%	495	10
Bore/Drill Rig	1	84	20%	495	10
Bulldozer	1	82	40%	495	10
Crane	1	81	16%	495	10
Excavator	1	81	40%	495	10
Plate Compactor	1	83	20%	495	10

6

Receptor: R5

Results:
1-hour Leq: 55.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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 Compactors	1	83	20%	495	10
Concrete Pump	1	81	20%	495	10
Backhoe	2	78	40%	495	10
Crawler Crane	1	81	16%	495	10
Welders	1	74	40%	495	10
Plate Compactors	1	83	20%	495	10
Concrete Pump	1	81	20%	495	10

8

Receptor: *R5*

Results:

1-hour Leq: 53.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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
Crane (tower)	1	81	16%	495	10
Cutoff Saw	1	84	20%	495	10
Concrete Pump	1	81	20%	495	10
Crawler Crane	1	81	16%	495	10
Welders	15	74	40%	495	10
Cutoff Saw	2	84	20%	495	10
Air Compressor	2	78	40%	495	10
Aerial Lift	3	75	20%	495	10
Forklift	5	75	20%	495	10
Man Lift	2	75	20%	495	10

33

Receptor: *R5*

Results:
1-hour Leq: 56.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

Construction Phase: Paving/Concrete/Landscape

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%	495	10
Tractor/Loader/Backhoe	1	79	40%	495	10
Skid Steer Loader	1	79	40%	495	10
Roller	1	80	20%	495	10
Paving Equipment	1	77	50%	495	10

Receptor: 5
R5

Results:
1-hour Leq: 55.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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
Loader	2	79	40%	60	0
Air Compressor	1	78	40%	85	0
Tractor/Loader/Backhoe	1	79	40%	85	0

5

Receptor: **R6**

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

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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
Grader	1	85	40%	60	0
Bore/Drill Rig	1	84	20%	60	0
Bulldozer	1	82	40%	85	0
Crane	1	81	16%	85	0
Excavator	1	81	40%	100	0
Plate Compactor	1	83	20%	100	0

6

Receptor: **R6**

Results:
1-hour Leq: **82.4**

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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 Compactors	1	83	20%	60	0
Concrete Pump	1	81	20%	60	0
Backhoe	2	78	40%	85	0
Crawler Crane	1	81	16%	85	0
Welders	1	74	40%	100	0
Plate Compactors	1	83	20%	100	0
Concrete Pump	1	81	20%	100	0

8

Receptor: *R6*

Results:
1-hour Leq: 79.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

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
Crane (tower)	1	81	16%	60	0
Cutoff Saw	1	84	20%	60	0
Concrete Pump	1	81	20%	85	0
Crawler Crane	1	81	16%	85	0
Welders	15	74	40%	100	0
Cutoff Saw	2	84	20%	100	0
Air Compressor	2	78	40%	100	0
Aerial Lift	3	75	20%	100	0
Forklift	5	75	20%	100	0
Man Lift	2	75	20%	100	0

33

Receptor: **R6**

Results:
1-hour Leq: 81.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

Project: 222 West 2nd Project EIR

Construction Phase: Paving/Concrete/Landscape

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
Tractor/Loader/Backhoe	1	79	40%	60	0
Skid Steer Loader	1	79	40%	85	0
Roller	1	80	20%	85	0
Paving Equipment	1	77	50%	100	0

Receptor: 5
R6

Results:
1-hour Leq: 82.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

INPUT: ROADWAYS

222 West 2nd

Eyestone Environmental											
SKB											

6 December 2018
TNM 2.5

INPUT: ROADWAYS

PROJECT/CONTRACT: 222 West 2nd
RUN: Trucks - Demolition

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					

INPUT: TRAFFIC FOR LAeq1h Volumes

222 West 2nd

Eyestone Environmental		6 December 2018											
SKB		TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		222 West 2nd											
RUN:		Trucks - Demolition											
Roadway		Points											
Name		Name											
		No.											
		Segment											
		Autos		MTrucks		HTrucks		Buses		Motorcycles			
		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	12	35	0	0	2	25	0	0	0	0
		point2	2										

INPUT: RECEIVERS

222 West 2nd

Eyestone Environmental SKB							6 December 2018 TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		222 West 2nd									
RUN:		Trucks - Demolition									
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	
Along Spring St. 3rd St. and 4th St.	1	1	250.0	25.0	0.00	4.92	0.00	0	0.0	0.0	Y
Along Los Angeles St.	13	1	250.0	30.0	0.00	4.92	0.00	0	0.0	0.0	Y

RESULTS: SOUND LEVELS

222 West 2nd

Eyestone Environmental												
SKB												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT: 222 West 2nd												
RUN: Trucks - Demolition												
BARRIER DESIGN: INPUT HEIGHTS												
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
Along Spring St. 3rd St. and 4th St.	1	1	0.0	58.1	0	58.1	0	Snd Lvl	58.1	0.0	0	0.0
Along Los Angeles St.	13	1	0.0	57.3	0	57.3	0	Snd Lvl	57.3	0.0	0	0.0
Dwelling Units		# DUs	Noise Reduction									
			Min dB	Avg dB	Max dB							
All Selected		2	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		2	0.0	0.0	0.0							

INPUT: ROADWAYS

222 West 2nd

Eyestone Environmental											
SKB											

**6 December 2018
TNM 2.5**

INPUT: ROADWAYS

**PROJECT/CONTRACT: 222 West 2nd
RUN: Trucks - Grading**

**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					

INPUT: TRAFFIC FOR LAeq1h Volumes

222 West 2nd

Eyestone Environmental		6 December 2018											
SKB		TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		222 West 2nd											
RUN:		Trucks - Grading											
Roadway		Points											
Name		Name											
		No.											
		Segment											
		Autos		MTrucks		HTrucks		Buses		Motorcycles			
		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	24	35	0	0	7	25	0	0	0	0
		point2	2										

INPUT: RECEIVERS

222 West 2nd

Eyestone Environmental SKB							6 December 2018 TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		222 West 2nd									
RUN:		Trucks - Grading									
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	
Along Spring St. 3rd St. and 4th St.	1	1	250.0	25.0	0.00	4.92	0.00	0	0.0	0.0	Y
Along Los Angeles St.	13	1	250.0	30.0	0.00	4.92	0.00	0	0.0	0.0	Y

RESULTS: SOUND LEVELS

222 West 2nd

Eyestone Environmental SKB							6 December 2018 TNM 2.5 Calculated with TNM 2.5					
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		222 West 2nd										
RUN:		Trucks - Grading										
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 minus Goal
			dB	dB	dB	dB	dB		dB	dB	dB	dB
Along Spring St. 3rd St. and 4th St.	1	1	0.0	63.1	0	63.1	0	Snd Lvl	63.1	0.0	0	0.0
Along Los Angeles St.	13	1	0.0	62.3	0	62.3	0	Snd Lvl	62.3	0.0	0	0.0
Dwelling Units		# DUs	Noise Reduction									
			Min dB	Avg dB	Max dB							
All Selected		2	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		2	0.0	0.0	0.0							

INPUT: ROADWAYS

222 West 2nd

Eyestone Environmental											
SKB											

**6 December 2018
TNM 2.5**

INPUT: ROADWAYS

**PROJECT/CONTRACT: 222 West 2nd
RUN: Trucks - Foundation**

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					

INPUT: TRAFFIC FOR LAeq1h Volumes

222 West 2nd

Eyestone Environmental		6 December 2018											
SKB		TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		222 West 2nd											
RUN:		Trucks - Foundation											
Roadway		Points											
Name		Name											
		No.											
		Segment											
		Autos		MTrucks		HTrucks		Buses		Motorcycles			
		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	40	35	0	0	7	25	0	0	0	0
		point2	2										

INPUT: RECEIVERS

222 West 2nd

Eyestone Environmental SKB							6 December 2018 TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		222 West 2nd									
RUN:		Trucks - Foundation									
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	
Along Spring St. 3rd St. and 4th St.	1	1	250.0	25.0	0.00	4.92	0.00	0	0.0	0.0	Y
Along Los Angeles St.	13	1	250.0	30.0	0.00	4.92	0.00	0	0.0	0.0	Y

RESULTS: SOUND LEVELS

222 West 2nd

Eyestone Environmental						6 December 2018						
SKB						TNM 2.5						
						Calculated with TNM 2.5						
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		222 West 2nd										
RUN:		Trucks - Foundation										
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 minus Goal
			dB	dB	dB	dB	dB		dB	dB	dB	dB
Along Spring St. 3rd St. and 4th St.	1	1	0.0	63.5	0	63.5	0	Snd Lvl	63.5	0.0	0	0.0
Along Los Angeles St.	13	1	0.0	62.7	0	62.7	0	Snd Lvl	62.7	0.0	0	0.0
Dwelling Units		# DUs	Noise Reduction									
			Min dB	Avg dB	Max dB							
All Selected		2	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		2	0.0	0.0	0.0							

INPUT: ROADWAYS

222 West 2nd

Eyestone Environmental											
SKB											

**6 December 2018
TNM 2.5**

INPUT: ROADWAYS

**PROJECT/CONTRACT: 222 West 2nd
RUN: Trucks - Building Construction**

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					

INPUT: TRAFFIC FOR LAeq1h Volumes

222 West 2nd

Eyestone Environmental SKB		6 December 2018 TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes PROJECT/CONTRACT:		222 West 2nd											
RUN:		Trucks - Building Construction											
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	7	25	0	0	0	0	
	point2	2											

INPUT: RECEIVERS

222 West 2nd

Eyestone Environmental SKB							6 December 2018 TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		222 West 2nd									
RUN:		Trucks - Building Construction									
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	
Along Spring St. 3rd St. and 4th St.	1	1	250.0	25.0	0.00	4.92	0.00	0	0.0	0.0	Y
Along Los Angeles St.	13	1	250.0	30.0	0.00	4.92	0.00	0	0.0	0.0	Y

RESULTS: SOUND LEVELS

222 West 2nd

Eyestone Environmental							6 December 2018					
SKB							TNM 2.5					
							Calculated with TNM 2.5					
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		222 West 2nd										
RUN:		Trucks - Building Construction										
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 minus Goal
			dB	dB	dB	dB	dB		dB	dB	dB	dB
Along Spring St. 3rd St. and 4th St.	1	1	0.0	66.0	0	66.0	0	Snd Lvl	66.0	0.0	0	0.0
Along Los Angeles St.	13	1	0.0	65.2	0	65.2	0	Snd Lvl	65.2	0.0	0	0.0
Dwelling Units		# DUs	Noise Reduction									
			Min dB	Avg dB	Max dB							
All Selected		2	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		2	0.0	0.0	0.0							

INPUT: ROADWAYS

222 West 2nd

Eyestone Environmental											
SKB											

**6 December 2018
TNM 2.5**

INPUT: ROADWAYS

**PROJECT/CONTRACT: 222 West 2nd
RUN: Trucks - Landscape**

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					

INPUT: TRAFFIC FOR LAeq1h Volumes

222 West 2nd

Eyestone Environmental		6 December 2018											
SKB		TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		222 West 2nd											
RUN:		Trucks - Landscape											
Roadway		Points											
Name		Name											
		No.											
		Segment											
		Autos		MTrucks		HTrucks		Buses		Motorcycles			
		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	40	35	0	0	3	25	0	0	0	0
		point2	2										

INPUT: RECEIVERS

222 West 2nd

Eyestone Environmental SKB							6 December 2018 TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		222 West 2nd									
RUN:		Trucks - Landscape									
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	
Along Spring St. 3rd St. and 4th St.	1	1	250.0	25.0	0.00	4.92	0.00	0	0.0	0.0	Y
Along Los Angeles St.	13	1	250.0	30.0	0.00	4.92	0.00	0	0.0	0.0	Y

RESULTS: SOUND LEVELS

222 West 2nd

Eyestone Environmental						6 December 2018						
SKB						TNM 2.5						
						Calculated with TNM 2.5						
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		222 West 2nd										
RUN:		Trucks - Landscape										
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
Along Spring St. 3rd St. and 4th St.	1	1	0.0	60.8	0	60.8	0	Snd Lvl	60.8	0.0	0	0.0
Along Los Angeles St.	13	1	0.0	60.0	0	60.0	0	Snd Lvl	60.0	0.0	0	0.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		2	0.0	0.0	0.0							

INPUT: ROADWAYS

222 West 2nd

Eyestone Environmental											
SKB											

12 March 2019
TNM 2.5

INPUT: ROADWAYS

PROJECT/CONTRACT: 222 West 2nd
RUN: Trucks - Cumulative Spring, 3rd & 4th

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					

INPUT: ROADWAYS

222 West 2nd

Eyestone Environmental											
SKB											

**12 March 2019
TNM 2.5**

INPUT: ROADWAYS

**PROJECT/CONTRACT: 222 West 2nd
RUN: Trucks - Cumulative LA Street**

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					

INPUT: TRAFFIC FOR LAeq1h Volumes

222 West 2nd

Eyestone Environmental				12 March 2019									
SKB				TNM 2.5									
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		222 West 2nd											
RUN:		Trucks - Cumulative LA Street											
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		24 35		0 0		96 25		0 0	
		point2		2									

INPUT: RECEIVERS

222 West 2nd

Eyestone Environmental SKB							12 March 2019 TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		222 West 2nd									
RUN:		Trucks - Cumulative LA Street									
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	
Along Los Angeles St.	13	1	250.0	30.0	0.00	4.92	0.00	0	0.0	0.0	Y

RESULTS: SOUND LEVELS

222 West 2nd

Eyestone Environmental							12 March 2019						
SKB							TNM 2.5						
							Calculated with TNM 2.5						
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		222 West 2nd											
RUN:		Trucks - Cumulative LA Street											
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
Along Los Angeles St.		13	1	0.0	73.2	0	73.2	0	Snd Lvl	73.2	0.0	0	0.0
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		1	0.0	0.0	0.0								

INPUT: TRAFFIC FOR LAeq1h Volumes

222 West 2nd

Eyestone Environmental													
SKB													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		222 West 2nd											
RUN:		Trucks - Cumulative Spring, 3rd & 4th											
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		24 35		0 0		87 25		0 0	
		point2		2									

INPUT: RECEIVERS

222 West 2nd

Eyestone Environmental SKB							12 March 2019 TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		222 West 2nd									
RUN:		Trucks - Cumulative Spring, 3rd & 4th									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z	above	Existing	Impact Criteria		NR	in
						Ground	LAeq1h	LAeq1h	Sub'l	Goal	Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Along Spring St. 3rd St. and 4th St.	1	1	250.0	25.0	0.00	4.92	0.00	0	0.0	0.0	Y

RESULTS: SOUND LEVELS

222 West 2nd

Eyestone Environmental							12 March 2019						
SKB							TNM 2.5						
							Calculated with TNM 2.5						
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		222 West 2nd											
RUN:		Trucks - Cumulative Spring, 3rd & 4th											
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
Along Spring St. 3rd St. and 4th St.		1	1	0.0	73.5	0	73.5	0	Snd Lvl	73.5	0.0	0	0.0
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		1	0.0	0.0	0.0								

Project: 222 West 2nd 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

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					
		LA Times Building to the North	Multi-story Residential Building to the South	Commercial Building to the East	Commercial Building to the West		
		50	255	70	95		
Large Bulldozer	0.089	0.032	0.003	0.019	0.012		
Caisson Drilling	0.089	0.032	0.003	0.019	0.012		
Loaded Trucks	0.076	0.027	0.002	0.016	0.010		
Jackhammer	0.035	0.012	0.001	0.008	0.005		
Small bulldozer	0.003	0.001	0.000	0.001	0.000		
Significance Threshold, PPV		0.12	0.5	0.3	0.5		

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	R6	
		300	295	340	245	495	60	
Large Bulldozer	87	55	55	53	57	48	76	
Caisson Drilling	87	55	55	53	57	48	76	
Loaded Trucks	86	54	54	52	56	47	75	
Jackhammer	79	47	47	45	49	40	68	
Small bulldozer	58	26	26	24	28	19	47	
Significance Threshold, VdB		72	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					
		20					
Typical road surface	63	75					
Significance Threshold, VdB		72					

Ref. Levels based on FTA Figure 7-3

Operation Noise Calculations

Project Composite Noise Calculations (CNEL)

Project: 222 West 2nd Street Project

Receptor	Ambient	Traffic ^a	Mechanical		Trash Compactor	Outdoor		Project Composite	Ambient + Project	Increase
R1	69.0	52.4	34.2		22.3	45.5		53.2	69.1	0.1
R2	69.4	60.4	42.4		30.5	52.1		61.1	70.0	0.6
R3	67.0	56.9	37.9		51.8	53.6		59.4	67.7	0.7
R4	66.4	51.7	40.2		35.6	54.3		56.3	66.8	0.4
R5	67.7	43.8	36.5		37.5	57.1		57.3	68.1	0.4
R6	67.8	59.4	50.2		49.7	63.5		65.2	69.7	1.9

^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	2nd St.	68.7	68.8	52.4	10	68.7	68.8	0	30	0.0
R2	Broadway	68.7	69.3	60.4	10	68.7	69.3	0	35	0.0
R3	Spring St.	68.4	68.7	56.9	10	68.4	68.7	0	35	0.0
R4	2nd St.	68.0	68.1	51.7	10	68.0	68.1	0	30	0.0
R5	Main St.	70.2	70.2	43.8	10	70.2	70.2	0	30	0.0
R6	Broadway	68.5	69.0	59.4	10	68.5	69.0	0	40	0.0

Outdoor Mechanical Equipment Noise Calculations

Project: 222 West 2nd Street Project

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	27.5	34.2	27.5	27.5	27.5
R2	35.7	42.4	35.7	35.7	35.7
R3	31.2	37.9	31.2	31.2	31.2
R4	33.5	40.2	33.5	33.5	33.5
R5	29.8	36.5	29.8	29.8	29.8
R6	43.5	50.2	43.5	43.5	43.5

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	69.0	69.0	0.0	60.7	60.7	0.0
R2	69.4	69.4	0.0	63.6	63.6	0.0
R3	67.0	67.0	0.0	61.9	61.9	0.0
R4	66.4	66.4	0.0	58.7	58.7	0.0
R5	67.7	67.7	0.0	62.3	62.3	0.0
R6	67.8	67.9	0.1	62.8	62.9	0.1

Outdoor Noise Calculations

Project: 222 West 2nd Street Project

ALL LEVEL

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	9	3	2
R1	43.3	27.0	43.4	45.5	42.2	43.4	36.9
R2	49.7	37.9	50.0	52.1	48.8	50.0	43.5
R3	51.3	36.9	51.5	53.6	50.3	51.5	45.0
R4	52.1	35.4	52.2	54.3	51.0	52.2	45.7
R5	55.0	32.4	55.0	57.1	53.8	55.0	48.5
R6	61.0	50.9	61.4	63.5	60.2	61.4	54.9

TOTAL COMBINED

Receptor	Project (CNEL)	Ambient (CNEL)	Ambient + Project (CNEL)	Increase (CNEL)	Project Noise, (Leq)	Ambient (Leq)	Ambient + Project (Leq)
R1	45.5	69.0	69.0	0.0	43.4	60.7	60.8
R2	52.1	69.4	69.5	0.1	50.0	63.6	63.8
R3	53.6	67.0	67.2	0.2	51.5	61.9	62.3
R4	54.3	66.4	66.7	0.3	52.2	58.7	59.6
R5	57.1	67.7	68.1	0.4	55.0	62.3	63.0
R6	63.5	67.8	69.2	1.4	61.4	62.8	65.2

Loading and Trash Compactor Noise Calculations

Project: 222 West 2nd Street Project

LOADING

Receptor	Estimated Noise Levels, Leq from SOUNDPLAN		Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
	Leq	CNEL			
			3	3	0
R1	23.7	21.0	17.7	23.7	0.0
R2	32.4	29.6	26.4	32.4	0.0
R3	54.1	51.3	48.1	54.1	0.0
R4	38.0	35.2	32.0	38.0	0.0
R5	38.4	35.6	32.4	38.4	0.0
R6	52.0	49.2	46.0	52.0	0.0

TRASH COMPACTOR

Receptor	Estimated Noise Levels, Leq from SOUNDPLAN		Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
	Leq	CNEL			
			3	3	0
R1	18.7	16.3	12.7	18.7	0.0
R2	26.3	23.5	20.3	26.3	0.0
R3	45.2	42.4	39.2	45.2	0.0
R4	28.3	25.5	22.3	28.3	0.0
R5	35.8	33.0	29.8	35.8	0.0
R6	43.2	40.4	37.2	43.2	0.0

TOTAL COMBINED

Receptor	Project CNEL	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	Project Noise, (Leq)	daytime ambient (Leq)	Ambient + Project (Leq)
R1	22.3	69.0	69.0	0.0	24.9	60.7	60.7
R2	30.5	69.4	69.4	0.0	33.4	63.6	63.6
R3	51.8	67.0	67.1	0.1	54.6	61.9	62.6
R4	35.6	66.4	66.4	0.0	38.4	58.7	58.7
R5	37.5	67.7	67.7	0.0	40.3	62.3	62.3
R6	49.7	67.8	67.9	0.1	52.5	62.8	63.2

**222 West 2nd Project EIR
Source Levels in dB(A) - Loading**

3

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

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**222 West 2nd Project EIR
Assessed contribution level - Loading**

9

Source	Ld dB(A)	
Receiver R1 Ld 23.7 dB(A)		
Loading 1	20.7	
Loading 2	20.7	
Receiver R2 Ld 32.4 dB(A)		
Loading 1	28.8	
Loading 2	29.8	
Receiver R3 Ld 54.1 dB(A)		
Loading 1	51.7	
Loading 2	50.4	
Receiver R4 Ld 38.0 dB(A)		
Loading 1	35.1	
Loading 2	34.8	
Receiver R5 Ld 38.4 dB(A)		
Loading 1	36.8	
Loading 2	33.4	
Receiver R6 Ld 52.0 dB(A)		
Loading 1	49.0	
Loading 2	49.0	

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**222 West 2nd Project EIR
Source Levels in dB(A) - Mechanical**

3

Name	Source type	Lw dB(A)	
AHU-1	Point	90.0	
AHU-2	Point	90.0	
AHU-3	Point	90.0	
AHU-4	Point	90.0	
AHU-5	Point	90.0	
AHU-6	Point	90.0	
CT-1	Point	100.0	
CT-2	Point	100.0	
CT-3	Point	100.0	
EF-1	Point	90.0	
EF-2	Point	90.0	

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**222 West 2nd Project EIR
Assessed contribution level - Mechanical**

9

Source	Ld dB(A)	
Receiver R1 Ld 27.5 dB(A)		
AHU-1	9.3	
AHU-2	9.3	
AHU-3	9.2	
AHU-4	11.9	
AHU-5	11.9	
AHU-6	11.8	
CT-1	21.8	
CT-2	21.8	
CT-3	21.8	
EF-1	12.6	
EF-2	12.6	
Receiver R2 Ld 35.7 dB(A)		
AHU-1	13.4	
AHU-2	11.0	
AHU-3	11.1	
AHU-4	15.8	
AHU-5	24.0	
AHU-6	10.9	
CT-1	34.8	
CT-2	23.3	
CT-3	20.9	
EF-1	14.2	
EF-2	14.3	
Receiver R3 Ld 31.2 dB(A)		
AHU-1	14.2	
AHU-2	16.3	
AHU-3	13.5	
AHU-4	19.2	
AHU-5	18.7	
AHU-6	13.6	
CT-1	24.1	
CT-2	27.2	
CT-3	23.6	
EF-1	11.4	
EF-2	11.5	
Receiver R4 Ld 33.5 dB(A)		
AHU-1	14.6	
AHU-2	15.5	
AHU-3	17.7	

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**222 West 2nd Project EIR
Assessed contribution level - Mechanical**

9

Source	Ld dB(A)	
AHU-4	12.4	
AHU-5	12.4	
AHU-6	12.4	
CT-1	27.2	
CT-2	27.8	
CT-3	29.4	
EF-1	12.2	
EF-2	12.2	
Receiver R5 Ld 29.8 dB(A)		
AHU-1	17.4	
AHU-2	17.5	
AHU-3	12.1	
AHU-4	11.0	
AHU-5	11.0	
AHU-6	11.0	
CT-1	25.3	
CT-2	23.3	
CT-3	23.3	
EF-1	9.4	
EF-2	9.4	
Receiver R6 Ld 43.5 dB(A)		
AHU-1	15.9	
AHU-2	15.9	
AHU-3	18.3	
AHU-4	26.0	
AHU-5	33.3	
AHU-6	21.3	
CT-1	25.8	
CT-2	41.0	
CT-3	38.1	
EF-1	19.6	
EF-2	19.6	

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222 West 2nd Project EIR
Source Levels in dB(A) - People

3

Name	Source type	Lw dB(A)	
People - Ground Level	Area	95.3	
People Level 8 Deck	Area	96.7	
People Level 15 Deck	Area	95.5	
People Level 27 Deck	Area	95.8	

**222 West 2nd Project EIR
Assessed contribution level - People**

9

Source	Ld dB(A)	
Receiver R1 Ld 27.0 dB(A)		
People - Ground Level	21.5	
People Level 8 Deck	23.8	
People Level 15 Deck	17.2	
People Level 27 Deck	18.4	
Receiver R2 Ld 37.9 dB(A)		
People - Ground Level	28.3	
People Level 8 Deck	34.5	
People Level 15 Deck	33.8	
People Level 27 Deck	23.6	
Receiver R3 Ld 36.9 dB(A)		
People - Ground Level	27.4	
People Level 8 Deck	30.5	
People Level 15 Deck	34.8	
People Level 27 Deck	23.4	
Receiver R4 Ld 35.4 dB(A)		
People - Ground Level	29.6	
People Level 8 Deck	29.0	
People Level 15 Deck	32.2	
People Level 27 Deck	20.1	
Receiver R5 Ld 32.4 dB(A)		
People - Ground Level	26.3	
People Level 8 Deck	20.2	
People Level 15 Deck	30.7	
People Level 27 Deck	17.1	
Receiver R6 Ld 50.9 dB(A)		
People - Ground Level	50.0	
People Level 8 Deck	42.8	
People Level 15 Deck	33.9	
People Level 27 Deck	25.0	

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**222 West 2nd Project EIR
Source Levels in dB(A) - Speakers**

3

Name	Source type	Lw dB(A)	
Speaker Level 1 - 1	Point	103.6	
Speaker Level 1 - 2	Point	103.6	
Speaker Level 1 - 3	Point	103.6	
Speaker Level 1 - 4	Point	103.6	
Speaker Level 8 Deck - 1	Point	113.6	
Speaker Level 8 Deck - 2	Point	113.6	
Speaker Level 8 Deck - 3	Point	113.6	
Speaker Level 8 Deck - 4	Point	113.6	
Speaker Level 8 Deck - 5	Point	113.6	
Speaker Level 8 Deck - 6	Point	113.6	
Speaker Level 15 - 1	Point	118.6	
Speaker Level 15 - 2	Point	118.6	
Speaker Level 15 - 3	Point	118.6	
Speaker Level 15 - 4	Point	118.6	
Speaker Level 27 - 1	Point	123.6	
Speaker Level 27 - 2	Point	123.6	
Speaker Level 27 - 3	Point	123.6	
Speaker Level 27 - 4	Point	123.6	

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222 West 2nd Project EIR
Assessed contribution level - Speakers

9

Source	Ld dB(A)	
Receiver R1 Ld 43.3 dB(A)		
Speaker Level 1 - 1	14.9	
Speaker Level 1 - 2	12.3	
Speaker Level 1 - 3	13.1	
Speaker Level 1 - 4	7.2	
Speaker Level 15 - 1	22.8	
Speaker Level 15 - 2	20.4	
Speaker Level 15 - 3	19.7	
Speaker Level 15 - 4	17.0	
Speaker Level 27 - 1	38.5	
Speaker Level 27 - 2	38.6	
Speaker Level 27 - 3	29.0	
Speaker Level 27 - 4	27.3	
Speaker Level 8 Deck - 1	32.3	
Speaker Level 8 Deck - 2	24.9	
Speaker Level 8 Deck - 3	24.5	
Speaker Level 8 Deck - 4	34.3	
Speaker Level 8 Deck - 5	23.6	
Speaker Level 8 Deck - 6	22.1	
Receiver R2 Ld 49.7 dB(A)		
Speaker Level 1 - 1	27.7	
Speaker Level 1 - 2	25.3	
Speaker Level 1 - 3	23.1	
Speaker Level 1 - 4	23.7	
Speaker Level 15 - 1	42.5	
Speaker Level 15 - 2	41.7	
Speaker Level 15 - 3	41.0	
Speaker Level 15 - 4	19.2	
Speaker Level 27 - 1	36.0	
Speaker Level 27 - 2	32.3	
Speaker Level 27 - 3	36.1	
Speaker Level 27 - 4	41.1	
Speaker Level 8 Deck - 1	30.4	
Speaker Level 8 Deck - 2	37.9	
Speaker Level 8 Deck - 3	41.5	
Speaker Level 8 Deck - 4	33.7	
Speaker Level 8 Deck - 5	18.0	
Speaker Level 8 Deck - 6	14.9	
Receiver R3 Ld 51.3 dB(A)		
Speaker Level 1 - 1	22.8	

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**222 West 2nd Project EIR
Assessed contribution level - Speakers**

9

Source	Ld dB(A)	
Speaker Level 1 - 2	24.2	
Speaker Level 1 - 3	38.1	
Speaker Level 1 - 4	28.4	
Speaker Level 15 - 1	44.0	
Speaker Level 15 - 2	45.1	
Speaker Level 15 - 3	46.0	
Speaker Level 15 - 4	31.6	
Speaker Level 27 - 1	25.5	
Speaker Level 27 - 2	34.4	
Speaker Level 27 - 3	39.5	
Speaker Level 27 - 4	39.8	
Speaker Level 8 Deck - 1	16.4	
Speaker Level 8 Deck - 2	35.1	
Speaker Level 8 Deck - 3	27.3	
Speaker Level 8 Deck - 4	33.8	
Speaker Level 8 Deck - 5	14.5	
Speaker Level 8 Deck - 6	16.8	
Receiver R4 Ld 52.1 dB(A)		
Speaker Level 1 - 1	19.4	
Speaker Level 1 - 2	10.6	
Speaker Level 1 - 3	15.8	
Speaker Level 1 - 4	23.0	
Speaker Level 15 - 1	22.6	
Speaker Level 15 - 2	23.8	
Speaker Level 15 - 3	23.9	
Speaker Level 15 - 4	51.3	
Speaker Level 27 - 1	26.1	
Speaker Level 27 - 2	37.5	
Speaker Level 27 - 3	37.8	
Speaker Level 27 - 4	27.9	
Speaker Level 8 Deck - 1	14.9	
Speaker Level 8 Deck - 2	21.1	
Speaker Level 8 Deck - 3	39.8	
Speaker Level 8 Deck - 4	32.0	
Speaker Level 8 Deck - 5	27.4	
Speaker Level 8 Deck - 6	34.0	
Receiver R5 Ld 55.0 dB(A)		
Speaker Level 1 - 1	17.1	
Speaker Level 1 - 2	26.0	
Speaker Level 1 - 3	26.1	

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**222 West 2nd Project EIR
Assessed contribution level - Speakers**

9

Source	Ld dB(A)	
Speaker Level 1 - 4	26.2	
Speaker Level 15 - 1	29.9	
Speaker Level 15 - 2	30.8	
Speaker Level 15 - 3	35.5	
Speaker Level 15 - 4	54.7	
Speaker Level 27 - 1	22.2	
Speaker Level 27 - 2	38.3	
Speaker Level 27 - 3	33.4	
Speaker Level 27 - 4	27.5	
Speaker Level 8 Deck - 1	13.6	
Speaker Level 8 Deck - 2	34.0	
Speaker Level 8 Deck - 3	17.8	
Speaker Level 8 Deck - 4	28.4	
Speaker Level 8 Deck - 5	14.2	
Speaker Level 8 Deck - 6	15.1	
Receiver R6 Ld 61.0 dB(A)		
Speaker Level 1 - 1	58.4	
Speaker Level 1 - 2	48.5	
Speaker Level 1 - 3	39.3	
Speaker Level 1 - 4	38.2	
Speaker Level 15 - 1	29.7	
Speaker Level 15 - 2	28.9	
Speaker Level 15 - 3	30.3	
Speaker Level 15 - 4	43.7	
Speaker Level 27 - 1	37.1	
Speaker Level 27 - 2	40.0	
Speaker Level 27 - 3	39.5	
Speaker Level 27 - 4	38.3	
Speaker Level 8 Deck - 1	43.2	
Speaker Level 8 Deck - 2	46.6	
Speaker Level 8 Deck - 3	51.3	
Speaker Level 8 Deck - 4	45.9	
Speaker Level 8 Deck - 5	46.5	
Speaker Level 8 Deck - 6	51.4	

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222 West 2nd Project EIR
Source Levels in dB(A) - Trash

3

Name	Source type	Lw dB(A)	
Trash Compactor	Point	98.0	

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**222 West 2nd Project EIR
Assessed contribution level - Trash**

9

Source	Ld dB(A)	
Receiver R1 Ld 18.7 dB(A)		
Trash Compactor	18.7	
Receiver R2 Ld 26.3 dB(A)		
Trash Compactor	26.3	
Receiver R3 Ld 45.2 dB(A)		
Trash Compactor	45.2	
Receiver R4 Ld 28.3 dB(A)		
Trash Compactor	28.3	
Receiver R5 Ld 35.8 dB(A)		
Trash Compactor	35.8	
Receiver R6 Ld 43.2 dB(A)		
Trash Compactor	43.2	

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Off-Site Traffic Noise Calculations
Project: 222 West 2nd Project

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
8%

EXISTING CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume		PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
					PHV	ADT				
Hill Street										
- Between 1st St. and 2nd St.	60	10	40	35	1,762	22,025	8%	0	0	68.8
- Between 2nd St. and 3rd St.	60	10	40	35	1,947	24,338	8%	0	0	69.2
Broadway										
- Between Temple St. and 1st St.	60	10	40	35	1,716	21,450	8%	0	0	68.7
- Between 1st St. and 2nd St.	60	10	40	35	1,657	20,713	8%	0	0	68.5
- Between 2nd St. and 3rd St.	50	10	35	35	1,497	18,713	8%	0	0	68.7
- Between 3rd St. and 4th St.	40	10	30	35	1,198	14,975	8%	0	0	68.4
- Between 4th St. and 5th St.	40	10	30	35	1,356	16,950	8%	0	0	68.9
Spring Street										
- Between Temple St. and 1st St.	70	10	45	35	1,636	20,450	8%	0	0	67.9
- Between 1st St. and 2nd St.	50	10	35	35	1,261	15,763	8%	0	0	67.9
- Between 2nd St. and 3rd St.	50	10	35	35	1,406	17,575	8%	0	0	68.4
- Between 3rd St. and 4th St.	50	10	35	35	1,515	18,938	8%	0	0	68.7
- Between 4th St. and 5th St.	50	10	35	35	1,334	16,675	8%	0	0	68.2
Main Street										
- Between Temple St. and 1st St.	60	10	40	35	1,724	21,550	8%	0	0	68.7
- Between 1st St. and 2nd St.	50	10	35	35	1,672	20,900	8%	0	0	69.2
- Between 2nd St. and 3rd St.	50	10	35	35	2,119	26,488	8%	0	0	70.2
- Between 3rd St. and 4th St.	50	10	35	35	2,700	33,750	8%	0	0	71.2
- Between 4th St. and 5th St.	50	10	35	35	2,567	32,088	8%	0	0	71.0
1st Street										
- Between Hill St. and Broadway	70	10	45	35	2,256	28,200	8%	0	0	69.3
- Between Broadway and Main St.	70	10	45	35	1,921	24,013	8%	0	0	68.6
- Between Main St. and Los Angeles	70	10	45	35	1,742	21,775	8%	0	0	68.1
2nd Street										
- Between Hill St. and Broadway	40	10	30	35	1,289	16,113	8%	0	0	68.7

EXISTING CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume		PHV to ADT factor	Barrier Atten.	Site	24-Hour CNEL
					PHV	ADT			Adjust., dBA	
- Between Broadway and Spring St.	40	10	30	35	1,223	15,288	8%	0	0	68.5
- Between Spring St. and Main St.	40	10	30	35	1,093	13,663	8%	0	0	68.0
- Between Main St. and Los Angeles	40	10	30	35	993	12,413	8%	0	0	67.6
3rd Street										
- Between Hill St. and Broadway	40	10	30	35	1,644	20,550	8%	0	0	69.8
- Between Broadway and Main St.	40	10	30	35	1,933	24,163	8%	0	0	70.5
- Between Main St. and Los Angeles	50	10	35	35	2,403	30,038	8%	0	0	70.7
4th Street										
- Between Hill St. and Broadway	40	10	30	35	1,478	18,475	8%	0	0	69.3
- Between Broadway and Main St.	40	10	30	35	1,610	20,125	8%	0	0	69.7
- Between Main St. and Los Angeles	40	10	30	35	1,661	20,763	8%	0	0	69.8

* Estimated based on Google Earth map.

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

Off-Site Traffic Noise Calculations
Project: 222 West 2nd

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
8%

EXISTING + PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume		PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
					PHV	ADT				
Hill Street										
- Between 1st St. and 2nd St.	60	10	40	35	1,769	22,113	8%	0	0	68.8
- Between 2nd St. and 3rd St.	60	10	40	35	1,964	24,550	8%	0	0	69.3
Broadway										
- Between Temple St. and 1st St.	60	10	40	35	1,885	23,563	8%	0	0	69.1
- Between 1st St. and 2nd St.	60	10	40	35	1,837	22,963	8%	0	0	69.0
- Between 2nd St. and 3rd St.	50	10	35	35	1,738	21,725	8%	0	0	69.3
- Between 3rd St. and 4th St.	40	10	30	35	1,285	16,063	8%	0	0	68.7
- Between 4th St. and 5th St.	40	10	30	35	1,416	17,700	8%	0	0	69.1
Spring Street										
- Between Temple St. and 1st St.	70	10	45	35	1,734	21,675	8%	0	0	68.1
- Between 1st St. and 2nd St.	50	10	35	35	1,359	16,988	8%	0	0	68.3
- Between 2nd St. and 3rd St.	50	10	35	35	1,498	18,725	8%	0	0	68.7
- Between 3rd St. and 4th St.	50	10	35	35	1,527	19,088	8%	0	0	68.8
- Between 4th St. and 5th St.	50	10	35	35	1,341	16,763	8%	0	0	68.2
Main Street										
- Between Temple St. and 1st St.	60	10	40	35	1,724	21,550	8%	0	0	68.7
- Between 1st St. and 2nd St.	50	10	35	35	1,672	20,900	8%	0	0	69.2
- Between 2nd St. and 3rd St.	50	10	35	35	2,123	26,538	8%	0	0	70.2
- Between 3rd St. and 4th St.	50	10	35	35	2,704	33,800	8%	0	0	71.2
- Between 4th St. and 5th St.	50	10	35	35	2,571	32,138	8%	0	0	71.0
1st Street										
- Between Hill St. and Broadway	70	10	45	35	2,266	28,325	8%	0	0	69.3
- Between Broadway and Main St.	70	10	45	35	1,921	24,013	8%	0	0	68.6
- Between Main St. and Los Angeles	70	10	45	35	1,742	21,775	8%	0	0	68.1
2nd Street										
- Between Hill St. and Broadway	40	10	30	35	1,310	16,375	8%	0	0	68.8

EXISTING + PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume		PHV to ADT factor	Barrier Atten.	Site	24-Hour CNEL
					PHV	ADT			Adjust., dBA	
- Between Broadway and Spring St.	40	10	30	35	1,236	15,450	8%	0	0	68.5
- Between Spring St. and Main St.	40	10	30	35	1,110	13,875	8%	0	0	68.1
- Between Main St. and Los Angeles	40	10	30	35	1,007	12,588	8%	0	0	67.7
3rd Street										
- Between Hill St. and Broadway	40	10	30	35	1,678	20,975	8%	0	0	69.9
- Between Broadway and Main St.	40	10	30	35	1,951	24,388	8%	0	0	70.5
- Between Main St. and Los Angeles	50	10	35	35	2,412	30,150	8%	0	0	70.7
4th Street										
- Between Hill St. and Broadway	40	10	30	35	1,505	18,813	8%	0	0	69.4
- Between Broadway and Main St.	40	10	30	35	1,620	20,250	8%	0	0	69.7
- Between Main St. and Los Angeles	40	10	30	35	1,682	21,025	8%	0	0	69.9

* Estimated based on Google Earth map.

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

Off-Site Traffic Noise Calculations
Project: 222 West 2nd

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
8%

FUTURE NO PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume		PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
					PHV	ADT				
Hill Street										
- Between 1st St. and 2nd St.	60	10	40	35	2,081	26,013	8%	0	0	69.5
- Between 2nd St. and 3rd St.	60	10	40	35	2,302	28,775	8%	0	0	69.9
Broadway										
- Between Temple St. and 1st St.	60	10	40	35	2,255	28,188	8%	0	0	69.9
- Between 1st St. and 2nd St.	60	10	40	35	2,228	27,850	8%	0	0	69.8
- Between 2nd St. and 3rd St.	50	10	35	35	2,099	26,238	8%	0	0	70.1
- Between 3rd St. and 4th St.	40	10	30	35	1,730	21,625	8%	0	0	70.0
- Between 4th St. and 5th St.	40	10	30	35	1,958	24,475	8%	0	0	70.5
Spring Street										
- Between Temple St. and 1st St.	70	10	45	35	1,990	24,875	8%	0	0	68.7
- Between 1st St. and 2nd St.	50	10	35	35	1,583	19,788	8%	0	0	68.9
- Between 2nd St. and 3rd St.	50	10	35	35	1,812	22,650	8%	0	0	69.5
- Between 3rd St. and 4th St.	50	10	35	35	2,045	25,563	8%	0	0	70.0
- Between 4th St. and 5th St.	50	10	35	35	1,927	24,088	8%	0	0	69.8
Main Street										
- Between Temple St. and 1st St.	60	10	40	35	2,190	27,375	8%	0	0	69.7
- Between 1st St. and 2nd St.	50	10	35	35	2,131	26,638	8%	0	0	70.2
- Between 2nd St. and 3rd St.	50	10	35	35	2,696	33,700	8%	0	0	71.2
- Between 3rd St. and 4th St.	50	10	35	35	3,520	44,000	8%	0	0	72.4
- Between 4th St. and 5th St.	50	10	35	35	3,169	39,613	8%	0	0	71.9
1st Street										
- Between Hill St. and Broadway	70	10	45	35	2,569	32,113	8%	0	0	69.8
- Between Broadway and Main St.	70	10	45	35	2,165	27,063	8%	0	0	69.1
- Between Main St. and Los Angeles	70	10	45	35	1,929	24,113	8%	0	0	68.6
2nd Street										
- Between Hill St. and Broadway	40	10	30	35	1,815	22,688	8%	0	0	70.2

FUTURE NO PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume		PHV to ADT factor	Barrier Atten.	Site	24-Hour CNEL
					PHV	ADT			Adjust., dBA	
- Between Broadway and Spring St.	40	10	30	35	1,760	22,000	8%	0	0	70.1
- Between Spring St. and Main St.	40	10	30	35	1,514	18,925	8%	0	0	69.4
- Between Main St. and Los Angeles	40	10	30	35	1,407	17,588	8%	0	0	69.1
3rd Street										
- Between Hill St. and Broadway	40	10	30	35	2,093	26,163	8%	0	0	70.8
- Between Broadway and Main St.	40	10	30	35	2,350	29,375	8%	0	0	71.3
- Between Main St. and Los Angeles	50	10	35	35	2,819	35,238	8%	0	0	71.4
4th Street										
- Between Hill St. and Broadway	40	10	30	35	2,185	27,313	8%	0	0	71.0
- Between Broadway and Main St.	40	10	30	35	2,382	29,775	8%	0	0	71.4
- Between Main St. and Los Angeles	40	10	30	35	2,234	27,925	8%	0	0	71.1

* Estimated based on Google Earth map.

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

Off-Site Traffic Noise Calculations
Project: 222 West 2nd

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
8%

FUTURE + PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume		PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
					PHV	ADT				
Hill Street										
- Between 1st St. and 2nd St.	60	10	40	35	2,088	26,100	8%	0	0	69.5
- Between 2nd St. and 3rd St.	60	10	40	35	2,319	28,988	8%	0	0	70.0
Broadway										
- Between Temple St. and 1st St.	60	10	40	35	2,424	30,300	8%	0	0	70.2
- Between 1st St. and 2nd St.	60	10	40	35	2,408	30,100	8%	0	0	70.1
- Between 2nd St. and 3rd St.	50	10	35	35	2,340	29,250	8%	0	0	70.6
- Between 3rd St. and 4th St.	40	10	30	35	1,817	22,713	8%	0	0	70.2
- Between 4th St. and 5th St.	40	10	30	35	2,018	25,225	8%	0	0	70.7
Spring Street										
- Between Temple St. and 1st St.	70	10	45	35	2,088	26,100	8%	0	0	68.9
- Between 1st St. and 2nd St.	50	10	35	35	1,681	21,013	8%	0	0	69.2
- Between 2nd St. and 3rd St.	50	10	35	35	1,905	23,813	8%	0	0	69.7
- Between 3rd St. and 4th St.	50	10	35	35	2,057	25,713	8%	0	0	70.1
- Between 4th St. and 5th St.	50	10	35	35	1,950	24,375	8%	0	0	69.8
Main Street										
- Between Temple St. and 1st St.	60	10	40	35	2,190	27,375	8%	0	0	69.7
- Between 1st St. and 2nd St.	50	10	35	35	2,131	26,638	8%	0	0	70.2
- Between 2nd St. and 3rd St.	50	10	35	35	2,700	33,750	8%	0	0	71.2
- Between 3rd St. and 4th St.	50	10	35	35	3,524	44,050	8%	0	0	72.4
- Between 4th St. and 5th St.	50	10	35	35	3,173	39,663	8%	0	0	71.9
1st Street										
- Between Hill St. and Broadway	70	10	45	35	2,579	32,238	8%	0	0	69.8
- Between Broadway and Main St.	70	10	45	35	2,165	27,063	8%	0	0	69.1
- Between Main St. and Los Angeles	70	10	45	35	1,929	24,113	8%	0	0	68.6
2nd Street										
- Between Hill St. and Broadway	40	10	30	35	1,836	22,950	8%	0	0	70.3

FUTURE + PROJECT CONDITIONS

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume		PHV to ADT factor	Barrier Atten.	Site	24-Hour CNEL
					PHV	ADT			Adjust., dBA	
- Between Broadway and Spring St.	40	10	30	35	1,773	22,163	8%	0	0	70.1
- Between Spring St. and Main St.	40	10	30	35	1,532	19,150	8%	0	0	69.5
- Between Main St. and Los Angeles	40	10	30	35	1,421	17,763	8%	0	0	69.2
3rd Street										
- Between Hill St. and Broadway	40	10	30	35	2,127	26,588	8%	0	0	70.9
- Between Broadway and Main St.	40	10	30	35	2,368	29,600	8%	0	0	71.4
- Between Main St. and Los Angeles	50	10	35	35	2,828	35,350	8%	0	0	71.4
4th Street										
- Between Hill St. and Broadway	40	10	30	35	2,212	27,650	8%	0	0	71.1
- Between Broadway and Main St.	40	10	30	35	2,393	29,913	8%	0	0	71.4
- Between Main St. and Los Angeles	40	10	30	35	2,255	28,188	8%	0	0	71.2

* Estimated based on Google Earth map.

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