



## **APPENDIX F**

### **Noise Data**





Table: Summary of Site ST-1 Noise Monitoring Data

<b>Site ST-1 (Southwest corner of Glenford Avenue and Business Center Drive)</b>											
Date	Time Start	Duration	Leq	Lmin	Lmax	L(01)	L(05)	L(10)	L(25)	L(50)	L(75)
5/8/2019	11:45 AM	15 mins	59.1	55.1	67.7	64.6	61.2	60.4	59.6	58.7	57.6
5/8/2019	12:00 PM	15 mins	59.9	57.6	64.8	62.9	61.3	60.8	60.3	59.8	59.3
		<i>Average:</i>	59.5	55.1	67.7	63.8	61.3	60.6	60.0	59.3	58.5

Table: Summary of Site ST-2 Noise Monitoring Data

<b>Site ST-2 (Eastern end of 3 Ranch Road; adjacent to project site)</b>											
Date	Time Start	Duration	Leq	Lmin	Lmax	L(01)	L(05)	L(10)	L(25)	L(50)	L(75)
5/8/2019	12:30 PM	15 mins	54.0	49.5	65.6	62.8	57.5	54.7	53.5	52.6	51.9
5/8/2019	12:45 PM	15 mins	54.4	50.6	64.7	62.5	57.2	55.6	54.5	53.4	52.3
		<i>Average:</i>	54.2	49.5	65.6	62.7	57.4	55.2	54.0	53.0	52.1

Table: Summary of Site ST-3 Noise Monitoring Data

<b>Site ST-3 (Western side of Highland Avenue, approximately 50 feet from Metro crossing guards)</b>											
Date	Time Start	Duration	Leq	Lmin	Lmax	L(01)	L(05)	L(10)	L(25)	L(50)	L(75)
5/8/2019	1:15 PM	15 mins	66.4	52.8	79.9	75.9	71.8	69.5	67.1	63.3	57.8
5/8/2019	2:00 PM	15 mins	67.6	52.1	82.2	77.5	73.1	70.8	68.8	63.0	58.2
		<i>Average:</i>	67.0	52.1	82.2	76.8	72.5	70.2	68.0	63.2	58.0

Table: Summary of Site ST-4 Noise Monitoring Data

<b>Site ST-4 (Southwest corner of Highland Avenue and Business Center Drive)</b>											
Date	Time Start	Duration	Leq	Lmin	Lmax	L(01)	L(05)	L(10)	L(25)	L(50)	L(75)
5/8/2019	2:30 PM	15 mins	66.1	59.4	81.0	74.6	70.5	67.7	65.6	64.1	62.8
5/8/2019	2:45 PM	15 mins	66.0	61.1	79.2	70.3	68.2	67.5	66.3	65.3	64.4
5/8/2019	3:00 PM	15 mins	64.6	58.2	76.3	70.4	68.0	66.9	65.5	63.8	62.1
		<i>Average:</i>	65.6	58.2	81.0	72.3	69.1	67.4	65.8	64.4	63.2

## Duarte Station Specific Plan

Duarte, CA

## Appendix: Ambient Noise Monitoring Data

Prepared by MIG, May 2019

Table: Summary of Site LT1 Noise Monitoring Data

Site LT1												
Date	Time	Duration	Leg	CNEL	Lmin	Lmax	L(1)	L(5)	L(10)	L(25)	L(50)	L(75)
5/8/2019	7:00 AM	1-hour	70.6	70.6	63.4	82.9	74.2	72.6	72.1	71.2	70.3	69.4
5/8/2019	8:00 AM	1-hour	70.4	70.4	64.4	82.0	74.3	72.4	71.8	71.0	70.1	69.2
5/8/2019	9:00 AM	1-hour	70.3	70.3	64.2	82.6	74.2	72.4	71.8	70.9	69.9	69.0
5/8/2019	10:00 AM	1-hour	70.4	70.4	63.8	80.1	74.3	72.6	72.0	71.0	70.0	69.1
5/8/2019	11:00 AM	1-hour	70.5	70.5	65.9	83.5	74.4	72.7	72.0	71.1	70.2	69.3
5/8/2019	12:00 PM	1-hour	70.5	70.5	65.1	81.4	74.3	72.7	72.1	71.1	70.1	69.2
5/8/2019	1:00 PM	1-hour	69.7	69.7	62.2	77.0	73.4	72.0	71.4	70.5	69.3	68.2
5/8/2019	2:00 PM	1-hour	68.5	68.5	62.4	81.0	72.8	70.9	70.2	69.2	68.0	66.9
5/8/2019	3:00 PM	1-hour	66.4	66.4	60.7	78.5	72.7	69.6	68.4	66.8	65.6	64.5
5/7/2019	4:00 PM	1-hour	67.2	67.2	59.8	85.0	74.5	70.0	69.0	67.7	66.2	64.5
5/7/2019	5:00 PM	1-hour	67.1	67.1	61.9	88.2	72.9	68.9	68.1	67.1	66.2	65.5
5/7/2019	6:00 PM	1-hour	68.3	68.3	62.1	78.5	72.1	70.5	69.9	68.9	67.9	66.9
5/7/2019	7:00 PM	1-hour	69.5	74.5	65.5	79.5	73.1	71.6	71.0	70.1	69.2	68.4
5/7/2019	8:00 PM	1-hour	69.0	74.0	63.0	82.5	73.2	71.3	70.7	69.7	68.6	67.6
5/7/2019	9:00 PM	1-hour	68.5	73.5	61.2	81.0	72.8	71.2	70.4	69.2	68.1	67.0
5/7/2019	10:00 PM	1-hour	67.8	77.8	57.7	78.7	72.1	70.6	69.9	68.7	67.3	65.9
5/7/2019	11:00 PM	1-hour	66.5	76.5	55.6	75.4	72.1	70.0	69.0	67.5	65.7	64.0
5/8/2019	12:00 AM	1-hour	65.4	75.4	54.4	75.1	71.2	69.3	68.3	66.5	64.3	62.2
5/8/2019	1:00 AM	1-hour	64.2	74.2	50.6	72.6	70.7	68.8	67.7	65.4	62.5	60.2
5/8/2019	2:00 AM	1-hour	64.0	74.0	53.0	74.9	70.6	68.6	67.4	65.1	62.4	59.9
5/8/2019	3:00 AM	1-hour	65.8	75.8	49.4	76.3	71.8	69.8	68.8	66.9	64.6	62.5
5/8/2019	4:00 AM	1-hour	68.0	78.0	59.3	78.5	72.8	71.1	70.3	68.8	67.4	66.1
5/8/2019	5:00 AM	1-hour	69.8	79.8	63.5	81.5	73.8	72.3	71.6	70.6	69.4	68.2
5/8/2019	6:00 AM	1-hour	71.0	81.0	65.3	84.0	74.7	73.4	72.8	71.8	70.7	69.4
	<i>Daytime (7 AM to 10 PM)</i>		69.3	--	59.8	88.2	73.6	71.6	70.9	69.9	68.9	67.9
	<i>Nighttime (10 PM to 7 AM)</i>		67.6	--	49.4	84.0	72.4	70.7	69.9	68.5	66.9	65.4
	24-hour CNEL		--	74.6	49.4	88.2	73.2	71.3	70.6	69.4	68.3	67.2

Duarte Station Specific Plan  
 Duarte, CA

Appendix: Summary of Modeled Traffic Noise Levels  
 Prepared by MIG, July 2019

ID	Road	Segment	Existing 2019			Existing 2019 Plus Project			Net Change			Future 2025			Future 2025 Plus Project			Net Change		
			ADT	CNEL (50 Ft)	CNEL (100 Ft)	ADT	CNEL (50 Ft)	CNEL (100 Ft)	ADT	CNEL (50 Ft)	CNEL (100 Ft)	ADT	CNEL (50 Ft)	CNEL (100 Ft)	ADT	CNEL (50 Ft)	CNEL (100 Ft)	ADT	CNEL (50 Ft)	CNEL (100 Ft)
1A	Buena Vista St	Huntington Dr to Central Ave	13,800	69.4	66.4	13,800	69.4	66.4	0	0.0	0.0	16,110	70.3	67.3	16,110	70.3	67.3	0	0.0	0.0
1B	Buena Vista St	Central Ave to I-210 WB	15,410	68	63.4	15,660	68	63.5	250	0.0	0.1	17,710	68.8	64.2	17,960	68.8	64.3	250	0.0	0.1
1C	Buena Vista St	I-210 WB to I-210 EB	14,260	68.7	64.9	14,370	68.8	64.9	110	0.1	0.0	17,270	69.7	65.9	17,380	69.8	65.9	110	0.1	0.0
1D	Buena Vista St	I-210 EB to Three Ranch Rd	12,270	68.7	65.4	13,050	68.9	65.7	780	0.2	0.3	15,850	70	66.7	16,630	70.2	66.9	780	0.2	0.2
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	12,390	68.1	64.4	13,400	68.5	64.7	1,010	0.4	0.3	15,980	69.4	65.6	16,990	69.7	65.9	1,010	0.3	0.3
2A	Central Ave	East of Mountain Ave	13,880	69.3	66.2	13,880	69.3	66.2	0	0.0	0.0	14,870	69.8	66.7	14,870	69.8	66.7	0	0.0	0.0
2B	Central Ave	West of Buena Vista St	5,320	65.3	62.3	5,320	65.3	62.3	0	0.0	0.0	5,490	65.6	62.6	5,490	65.6	62.6	0	0.0	0.0
2C	Central Ave	Buena Vista St to I-210 WB	11,350	68	64.4	11,600	68.1	64.5	250	0.1	0.1	12,370	68.5	64.9	12,730	68.6	65	360	0.1	0.1
2D	Central Ave	I-210 WB to Duncannon Ave	11,480	65.3	62.3	12,060	65.5	62.5	580	0.2	0.2	12,010	65.6	62.6	12,590	65.8	62.8	580	0.2	0.2
2E	Central Ave	Duncannon Ave to Highland Ave	8,330	67.3	64.3	8,850	67.6	64.6	520	0.3	0.3	8,620	67.6	64.7	9,140	67.9	64.9	520	0.3	0.2
3A	Duarte Rd	Mountain Ave to Buena Vista St	11,570	70.3	67.4	12,110	70.5	67.6	540	0.2	0.2	13,020	71	68.1	13,560	71.2	68.3	540	0.2	0.2
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	13,080	70.6	67.3	14,830	71.1	67.8	1,750	0.5	0.5	16,290	71.7	68.5	18,040	72.1	68.9	1,750	0.4	0.4
3C	Duarte Rd	Cinco Robles Dr to Village Rd	12,240	69.9	66.3	13,980	70.5	66.8	1,740	0.6	0.5	15,410	71.1	67.5	17,150	71.5	67.9	1,740	0.4	0.4
3D	Duarte Rd	Village Rd to Highland Ave	10,350	69.8	66.9	12,140	70.5	67.6	1,790	0.7	0.7	11,540	70.5	67.6	11,370	70.4	67.5	-170	-0.1	-0.1
4	Duncannon Ave	Central Ave to Evergreen St	1,940	56.9	53.2	2,080	57.2	53.5	140	0.3	0.3	2,000	57.1	53.5	2,140	57.4	53.8	140	0.3	0.3
5A	Evergreen St	East of Mountain Ave	17,350	70.5	67.5	17,530	70.5	67.6	180	0.0	0.1	19,140	71.1	68.1	19,320	71.1	68.2	180	0.0	0.1
5B	Evergreen St	West of Buena Vista St	6,940	66.4	63.3	7,060	66.4	63.4	120	0.0	0.1	8,480	67.4	64.3	8,600	67.5	64.4	120	0.1	0.1
5C	Evergreen St	Duncannon Ave to Highland Ave	1,420	58	55	1,640	58.6	55.7	220	0.6	0.7	1,470	58.3	55.4	1,690	58.9	56	220	0.6	0.6
6A	Highland Ave	Huntington Dr to Central Ave	10,850	65.1	62.1	13,000	65.9	62.9	2,150	0.8	0.8	11,700	65.6	62.6	13,850	66.3	63.4	2,150	0.7	0.8
6B	Highland Ave	Central Ave to Evergreen St	13,590	68.7	65.1	16,300	69.5	65.9	2,710	0.8	0.8	14,610	69.2	65.6	17,320	69.9	66.3	2,710	0.7	0.7
6C	Highland Ave	Evergreen St to Business Center Dr	12,240	68.1	64.3	14,910	68.9	65.1	2,670	0.8	0.8	13,200	68.6	64.8	15,870	69.4	65.6	2,670	0.8	0.8
6D	Highland Ave	Business Center Dr to Duarte Rd	11,660	68.5	65.3	13,760	69.2	66	2,100	0.7	0.7	12,610	69	65.8	14,710	69.7	66.5	2,100	0.7	0.7
7A	Huntington Dr	Buena Vista St to Highland Ave	22,310	73.2	70.3	22,610	73.2	70.3	300	0.0	0.0	24,940	73.9	71	25,240	73.9	71	300	0.0	0.0
7B	Huntington Dr	Highland Ave to Mt Olive Dr	25,040	73.7	70.8	26,700	74	71.1	1,660	0.3	0.3	28,660	74.5	71.6	30,320	74.7	71.8	1,660	0.2	0.2
8A	Mountain Ave	Central Ave to Evergreen St	18,140	69.7	65.9	18,390	69.8	65.9	250	0.1	0.0	20,890	70.5	66.7	21,140	70.6	66.7	250	0.1	0.0
8B	Mountain Ave	Evergreen St to Duarte Rd	14,010	69.4	66.3	14,260	69.5	66.4	250	0.1	0.1	14,680	69.8	66.7	14,930	69.9	66.8	250	0.1	0.1
9A	I210 w/out barrier	Adjacent to Evergreen St	263,757	71.1	74.2	263,805	71.1	74.2	48	0.0	0.0	279,984	71.6	74.7	280,032	71.6	74.7	48	0.0	0.0
9B	I210 w/barrier	Adjacent to Evergreen St	263,757	66.5	64.3	263,805	66.5	64.3	48	0.0	0.0	279,984	67.3	65.1	280,032	67.3	65.1	48	0.0	0.0

## Duarte Station Specific Plan

Duarte, CA

Appendix: Existing 2019 Traffic Noise Contour Distances

Prepared by MIG, July 2019

ID	Road	Road Segment	CNEL 100 Feet from Road Center	Distance in Feet to Contour		
				60 CNEL	65 CNEL	70 CNEL
1A	Buena Vista St	Huntington Dr to Central Ave	66.4	437	138	44
1B	Buena Vista St	Central Ave to I-210 WB	63.4	219	69	22
1C	Buena Vista St	I-210 WB to I-210 EB	64.9	309	98	31
1D	Buena Vista St	I-210 EB to Three Ranch Rd	65.4	347	110	35
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	64.4	275	87	28
2A	Central Ave	East of Mountain Ave	66.2	417	132	42
2B	Central Ave	West of Buena Vista St	62.3	170	54	17
2C	Central Ave	Buena Vista St to I-210 WB	64.4	275	87	28
2D	Central Ave	I-210 WB to Duncannon Ave	62.3	170	54	17
2E	Central Ave	Duncannon Ave to Highland Ave	64.3	269	85	27
3A	Duarte Rd	Mountain Ave to Buena Vista St	67.4	550	174	55
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	67.3	537	170	54
3C	Duarte Rd	Cinco Robles Dr to Village Rd	66.3	427	135	43
3D	Duarte Rd	Village Rd to Highland Ave	66.9	490	155	49
4	Duncannon Ave	Central Ave to Evergreen St	53.2	21	7	2
5A	Evergreen St	East of Mountain Ave	67.5	562	178	56
5B	Evergreen St	West of Buena Vista St	63.3	214	68	21
5C	Evergreen St	Duncannon Ave to Highland Ave	55	32	10	3
6A	Highland Ave	Huntington Dr to Central Ave	62.1	162	51	16
6B	Highland Ave	Central Ave to Evergreen St	65.1	324	102	32
6C	Highland Ave	Evergreen St to Business Center Dr	64.3	269	85	27
6D	Highland Ave	Business Center Dr to Duarte Rd	65.3	339	107	34
7A	Huntingon Dr	Buena Vista St to Highland Ave	70.3	1,072	339	107
7B	Huntingon Dr	Highland Ave to Mt Olive Dr	70.8	1,202	380	120
8A	Mountain Ave	Central Ave to Evergreen St	65.9	389	123	39
8B	Mountain Ave	Evergreen St to Duarte Rd	66.3	427	135	43
9A	I210 w/out barrier	Adjacent to Evergreen St	74.2	10,258	3,244	1,026
9B	I210 w/barrier	Adjacent to Evergreen St	64.3	1,050	332	105

## Duarte Station Specific Plan

Duarte, CA

Appendix: Existing 2019 Plus Project Traffic Noise Contour Distances

Prepared by MIG, July 2019

ID	Road	Road Segment	CNEL 100 Feet from Road Center	Distance in Feet to Contour		
				60 CNEL	65 CNEL	70 CNEL
1A	Buena Vista St	Huntington Dr to Central Ave	66.4	437	138	44
1B	Buena Vista St	Central Ave to I-210 WB	63.5	224	71	22
1C	Buena Vista St	I-210 WB to I-210 EB	64.9	309	98	31
1D	Buena Vista St	I-210 EB to Three Ranch Rd	65.7	372	117	37
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	64.7	295	93	30
2A	Central Ave	East of Mountain Ave	66.2	417	132	42
2B	Central Ave	West of Buena Vista St	62.3	170	54	17
2C	Central Ave	Buena Vista St to I-210 WB	64.5	282	89	28
2D	Central Ave	I-210 WB to Duncannon Ave	62.5	178	56	18
2E	Central Ave	Duncannon Ave to Highland Ave	64.6	288	91	29
3A	Duarte Rd	Mountain Ave to Buena Vista St	67.6	575	182	58
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	67.8	603	191	60
3C	Duarte Rd	Cinco Robles Dr to Village Rd	66.8	479	151	48
3D	Duarte Rd	Village Rd to Highland Ave	67.6	575	182	58
4	Duncannon Ave	Central Ave to Evergreen St	53.5	22	7	2
5A	Evergreen St	East of Mountain Ave	67.6	575	182	58
5B	Evergreen St	West of Buena Vista St	63.4	219	69	22
5C	Evergreen St	Duncannon Ave to Highland Ave	55.7	37	12	4
6A	Highland Ave	Huntington Dr to Central Ave	62.9	195	62	19
6B	Highland Ave	Central Ave to Evergreen St	65.9	389	123	39
6C	Highland Ave	Evergreen St to Business Center Dr	65.1	324	102	32
6D	Highland Ave	Business Center Dr to Duarte Rd	66	398	126	40
7A	Huntingon Dr	Buena Vista St to Highland Ave	70.3	1,072	339	107
7B	Huntingon Dr	Highland Ave to Mt Olive Dr	71.1	1,288	407	129
8A	Mountain Ave	Central Ave to Evergreen St	65.9	389	123	39
8B	Mountain Ave	Evergreen St to Duarte Rd	66.4	437	138	44
9A	I210 w/out barrier	Adjacent to Evergreen St	74.2	10,258	3,244	1,026
9B	I210 w/barrier	Adjacent to Evergreen St	64.3	1,050	332	105

## Duarte Station Specific Plan

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Appendix: Future 2025 Traffic Noise Contour Distances

Prepared by MIG, July 2019

ID	Road	Road Segment	CNEL 100 Feet from Road Center	Distance in Feet to Contour		
				60 CNEL	65 CNEL	70 CNEL
1A	Buena Vista St	Huntington Dr to Central Ave	67.3	537	170	54
1B	Buena Vista St	Central Ave to I-210 WB	64.2	263	83	26
1C	Buena Vista St	I-210 WB to I-210 EB	65.9	389	123	39
1D	Buena Vista St	I-210 EB to Three Ranch Rd	66.7	468	148	47
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	65.6	363	115	36
2A	Central Ave	East of Mountain Ave	66.7	468	148	47
2B	Central Ave	West of Buena Vista St	62.6	182	58	18
2C	Central Ave	Buena Vista St to I-210 WB	64.9	309	98	31
2D	Central Ave	I-210 WB to Duncannon Ave	62.6	182	58	18
2E	Central Ave	Duncannon Ave to Highland Ave	64.7	295	93	30
3A	Duarte Rd	Mountain Ave to Buena Vista St	68.1	646	204	65
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	68.5	708	224	71
3C	Duarte Rd	Cinco Robles Dr to Village Rd	67.5	562	178	56
3D	Duarte Rd	Village Rd to Highland Ave	67.6	575	182	58
4	Duncannon Ave	Central Ave to Evergreen St	53.5	22	7	2
5A	Evergreen St	East of Mountain Ave	68.1	646	204	65
5B	Evergreen St	West of Buena Vista St	64.3	269	85	27
5C	Evergreen St	Duncannon Ave to Highland Ave	55.4	35	11	3
6A	Highland Ave	Huntington Dr to Central Ave	62.6	182	58	18
6B	Highland Ave	Central Ave to Evergreen St	65.6	363	115	36
6C	Highland Ave	Evergreen St to Business Center Dr	64.8	302	95	30
6D	Highland Ave	Business Center Dr to Duarte Rd	65.8	380	120	38
7A	Huntington Dr	Buena Vista St to Highland Ave	71	1,259	398	126
7B	Huntington Dr	Highland Ave to Mt Olive Dr	71.6	1,445	457	145
8A	Mountain Ave	Central Ave to Evergreen St	66.7	468	148	47
8B	Mountain Ave	Evergreen St to Duarte Rd	66.7	468	148	47
9A	I210 w/out barrier	Adjacent to Evergreen St	74.7	11,510	3,640	1,151
9B	I210 w/barrier	Adjacent to Evergreen St	65.1	1,262	399	126



## Duarte Station Specific Plan

Duarte, CA

Appendix: Future 2025 Plus Project Traffic Noise Contour Distances

Prepared by MIG, July 2019

ID	Road	Road Segment	2019 CNEL 100 Feet from Road Center	Distance in Feet to Contour		
				60 CNEL	65 CNEL	70 CNEL
1A	Buena Vista St	Huntington Dr to Central Ave	67.3	537	170	54
1B	Buena Vista St	Central Ave to I-210 WB	64.3	269	85	27
1C	Buena Vista St	I-210 WB to I-210 EB	65.9	389	123	39
1D	Buena Vista St	I-210 EB to Three Ranch Rd	66.9	490	155	49
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	65.9	389	123	39
2A	Central Ave	East of Mountain Ave	66.7	468	148	47
2B	Central Ave	West of Buena Vista St	62.6	182	58	18
2C	Central Ave	Buena Vista St to I-210 WB	65	316	100	32
2D	Central Ave	I-210 WB to Duncannon Ave	62.8	191	60	19
2E	Central Ave	Duncannon Ave to Highland Ave	64.9	309	98	31
3A	Duarte Rd	Mountain Ave to Buena Vista St	68.3	676	214	68
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	68.9	776	245	78
3C	Duarte Rd	Cinco Robles Dr to Village Rd	67.9	617	195	62
3D	Duarte Rd	Village Rd to Highland Ave	67.5	562	178	56
4	Duncannon Ave	Central Ave to Evergreen St	53.8	24	8	2
5A	Evergreen St	East of Mountain Ave	68.2	661	209	66
5B	Evergreen St	West of Buena Vista St	64.4	275	87	28
5C	Evergreen St	Duncannon Ave to Highland Ave	56	40	13	4
6A	Highland Ave	Huntington Dr to Central Ave	63.4	219	69	22
6B	Highland Ave	Central Ave to Evergreen St	66.3	427	135	43
6C	Highland Ave	Evergreen St to Business Center Dr	65.6	363	115	36
6D	Highland Ave	Business Center Dr to Duarte Rd	66.5	447	141	45
7A	Huntington Dr	Buena Vista St to Highland Ave	71	1,259	398	126
7B	Huntington Dr	Highland Ave to Mt Olive Dr	71.8	1,514	479	151
8A	Mountain Ave	Central Ave to Evergreen St	66.7	468	148	47
8B	Mountain Ave	Evergreen St to Duarte Rd	66.8	479	151	48
9A	I210 w/out barrier	Adjacent to Evergreen St	74.7	11,510	3,640	1,151
9B	I210 w/barrier	Adjacent to Evergreen St	65.1	1,262	399	126

Duarte Station Specific Plan									
Duarte, CA									
Appendix: Existing 2019 Traffic Noise Model Inputs									
Prepared by MIG, July 2019									
ID	Road	Segment	Length (Miles)	Length (Feet)	Average Lanes	Average Width (Feet)	Vehicle Speed (MPH)	Peak Hour Volume	ADT
1A	Buena Vista St	Huntington Dr to Central Ave	0.24	1,250	4	50	35	1,380	13,800
1B	Buena Vista St	Central Ave to I-210 WB	0.03	150	4	50	35	1,541	15,410
1C	Buena Vista St	I-210 WB to I-210 EB	0.05	290	4	70	35	1,426	14,260
1D	Buena Vista St	I-210 EB to Three Ranch Rd	0.12	615	4	60	35	1,227	12,270
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	0.06	300	4	60	35	1,239	12,390
2A	Central Ave	East of Mountain Ave	0.16	855	3	37	35	1,388	13,880
2B	Central Ave	West of Buena Vista St	0.27	1,400	2	37	35	532	5,320
2C	Central Ave	Buena Vista St to I-210 WB	0.07	365	4	60	35	1,135	11,350
2D	Central Ave	I-210 WB to Duncannon Ave	0.20	1,070	2	37	25	1,148	11,480
2E	Central Ave	Duncannon Ave to Highland Ave	0.35	1,850	2	37	35	833	8,330
3A	Duarte Rd	Mountain Ave to Buena Vista St	0.50	2,650	4	70	40	1,157	11,570
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	0.12	650	4	77	40	1,308	13,080
3C	Duarte Rd	Cinco Robles Dr to Village Rd	0.07	370	4	77	40	1,224	12,240
3D	Duarte Rd	Village Rd to Highland Ave	0.42	2,225	4	77	40	1,035	10,350
4	Duncannon Ave	Central Ave to Evergreen St	0.06	320	2	40	25	194	1,940
5A	Evergreen St	East of Mountain Ave	0.32	1,685	2	30	35	1,735	17,350
5B	Evergreen St	West of Buena Vista St	0.18	960	2	30	35	694	6,940
5C	Evergreen St	Duncannon Ave to Highland Ave	0.35	1,840	2	30	30	142	1,420
6A	Highland Ave	Huntington Dr to Central Ave	0.25	1,310	4	60	25	1,085	10,850
6B	Highland Ave	Central Ave to Evergreen St	0.07	355	4	60	35	1,359	13,590
6C	Highland Ave	Evergreen St to Business Center Dr	0.06	295	4	60	35	1,224	12,240
6D	Highland Ave	Business Center Dr to Duarte Rd	0.13	670	4	60	35	1,166	11,660
7A	Huntington Dr	Buena Vista St to Highland Ave	0.63	3,310	4	80	40	2,231	22,310
7B	Huntington Dr	Highland Ave to Mt Olive Dr	0.63	3,310	4	80	40	2,504	25,040
8A	Mountain Ave	Central Ave to Evergreen St	0.05	280	4	67	35	1,814	18,140
8B	Mountain Ave	Evergreen St to Duarte Rd	0.18	940	4	67	35	1,401	14,010
9A	I210 w/out barrier	Adjacent to Evergreen St	0.09	500	12	170	65		263,757
9B	I210 w/barrier	Adjacent to Evergreen St	0.09	500	12	170	65		263,757

## Duarte Station Specific Plan

Duarte, CA

Appendix: Existing 2019 Plus Project Traffic Noise Model Inputs

Prepared by MIG, July 2019

ID	Road	Segment	Length (Miles)	Length (Feet)	Average Lanes	Average Width (Feet)	Vehicle Speed (MPH)	Peak Hour Volume	ADT
1A	Buena Vista St	Huntington Dr to Central Ave	0.24	1,250	4	50	35	1,380	13,800
1B	Buena Vista St	Central Ave to I-210 WB	0.03	150	4	50	35	1,566	15,660
1C	Buena Vista St	I-210 WB to I-210 EB	0.05	290	4	70	35	1,437	14,370
1D	Buena Vista St	I-210 EB to Three Ranch Rd	0.12	615	4	60	35	1,305	13,050
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	0.06	300	4	60	35	1,340	13,400
2A	Central Ave	East of Mountain Ave	0.16	855	3	37	35	1,388	13,880
2B	Central Ave	West of Buena Vista St	0.27	1,400	2	37	35	532	5,320
2C	Central Ave	Buena Vista St to I-210 WB	0.07	365	4	60	35	1,160	11,600
2D	Central Ave	I-210 WB to Duncannon Ave	0.20	1,070	2	37	25	1,206	12,060
2E	Central Ave	Duncannon Ave to Highland Ave	0.35	1,850	2	37	35	885	8,850
3A	Duarte Rd	Mountain Ave to Buena Vista St	0.50	2,650	4	70	40	1,211	12,110
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	0.12	650	4	77	40	1,483	14,830
3C	Duarte Rd	Cinco Robles Dr to Village Rd	0.07	370	4	77	40	1,398	13,980
3D	Duarte Rd	Village Rd to Highland Ave	0.42	2,225	4	77	40	1,214	12,140
4	Duncannon Ave	Central Ave to Evergreen St	0.06	320	2	40	25	208	2,080
5A	Evergreen St	East of Mountain Ave	0.32	1,685	2	30	35	1,753	17,530
5B	Evergreen St	West of Buena Vista St	0.18	960	2	30	35	706	7,060
5C	Evergreen St	Duncannon Ave to Highland Ave	0.35	1,840	2	30	30	164	1,640
6A	Highland Ave	Huntington Dr to Central Ave	0.25	1,310	4	60	25	1,300	13,000
6B	Highland Ave	Central Ave to Evergreen St	0.07	355	4	60	35	1,630	16,300
6C	Highland Ave	Evergreen St to Business Center Dr	0.06	295	4	60	35	1,491	14,910
6D	Highland Ave	Business Center Dr to Duarte Rd	0.13	670	4	60	35	1,376	13,760
7A	Huntingon Dr	Buena Vista St to Highland Ave	0.63	3,310	4	80	40	2,261	22,610
7B	Huntingon Dr	Highland Ave to Mt Olive Dr	0.63	3,310	4	80	40	2,670	26,700
8A	Mountain Ave	Central Ave to Evergreen St	0.05	280	4	67	35	1,839	18,390
8B	Mountain Ave	Evergreen St to Duarte Rd	0.18	940	4	67	35	1,426	14,260
9A	I210 w/out barrier	Adjacent to Evergreen St	0.09	500	12	170	65		263,805
9B	I210 w/barrier	Adjacent to Evergreen St	0.09	500	12	170	65		263,805

Duarte Station Specific Plan									
Duarte, CA									
Appendix: Future 2025 Traffic Noise Model Inputs									
Prepared by MIG, July 2019									
ID	Road	Segment	Length (Miles)	Length (Feet)	Average Lanes	Average Width (Feet)	Vehicle Speed (MPH)	Peak Hour Volume	ADT
1A	Buena Vista St	Huntington Dr to Central Ave	0.24	1,250	4	50	35	1,611	16,110
1B	Buena Vista St	Central Ave to I-210 WB	0.03	150	4	50	35	1,771	17,710
1C	Buena Vista St	I-210 WB to I-210 EB	0.05	290	4	70	35	1,727	17,270
1D	Buena Vista St	I-210 EB to Three Ranch Rd	0.12	615	4	60	35	1,585	15,850
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	0.06	300	4	60	35	1,598	15,980
2A	Central Ave	East of Mountain Ave	0.16	855	3	37	35	1,487	14,870
2A	Central Ave	West of Buena Vista St	0.27	1,400	2	37	35	549	5,490
2A	Central Ave	Buena Vista St to I-210 WB	0.07	365	4	60	35	1,237	12,370
2A	Central Ave	I-210 WB to Duncannon Ave	0.20	1,070	2	37	25	1,201	12,010
2A	Central Ave	Duncannon Ave to Highland Ave	0.35	1,850	2	37	35	862	8,620
3A	Duarte Rd	Mountain Ave to Buena Vista St	0.50	2,650	4	70	40	1,302	13,020
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	0.12	650	4	77	40	1,629	16,290
3C	Duarte Rd	Cinco Robles Dr to Village Rd	0.07	370	4	77	40	1,541	15,410
3D	Duarte Rd	Village Rd to Highland Ave	0.42	2,225	4	77	40	1,154	11,540
4	Duncannon Ave	Central Ave to Evergreen St	0.06	320	2	40	25	200	2,000
5A	Evergreen St	East of Mountain Ave	0.32	1,685	2	30	35	1,914	19,140
5B	Evergreen St	West of Buena Vista St	0.18	960	2	30	35	848	8,480
5C	Evergreen St	Duncannon Ave to Highland Ave	0.35	1,840	2	30	30	147	1,470
6A	Highland Ave	Huntington Dr to Central Ave	0.25	1,310	4	60	25	1,170	11,700
6B	Highland Ave	Central Ave to Evergreen St	0.07	355	4	60	35	1,461	14,610
6C	Highland Ave	Evergreen St to Business Center Dr	0.06	295	4	60	35	1,320	13,200
6D	Highland Ave	Business Center Dr to Duarte Rd	0.13	670	4	60	35	1,261	12,610
7A	Huntington Dr	Buena Vista St to Highland Ave	0.63	3,310	4	80	40	2,494	24,940
7B	Huntington Dr	Highland Ave to Mt Olive Dr	0.63	3,310	4	80	40	2,866	28,660
8A	Mountain Ave	Central Ave to Evergreen St	0.05	280	4	67	35	2,089	20,890
8B	Mountain Ave	Evergreen St to Duarte Rd	0.18	940	4	67	35	1,468	14,680
9A	I210 w/out barrier	Adjacent to Evergreen St	0.09	500	12	170	65		279,984
9B	I210 w/barrier	Adjacent to Evergreen St	0.09	500	12	170	65		279,984

Duarte Station Specific Plan									
Duarte, CA									
Appendix: Future 2025 Plus Project Traffic Noise Model Inputs									
Prepared by MIG, July 2019									
ID	Road	Segment	Length (Miles)	Length (Feet)	Average Lanes	Average Width (Feet)	Vehicle Speed (MPH)	Peak Hour Volume	ADT
1A	Buena Vista St	Huntington Dr to Central Ave	0.24	1,250	4	50	35	1,611	16,110
1B	Buena Vista St	Central Ave to I-210 WB	0.03	150	4	50	35	1,796	17,960
1C	Buena Vista St	I-210 WB to I-210 EB	0.05	290	4	70	35	1,738	17,380
1D	Buena Vista St	I-210 EB to Three Ranch Rd	0.12	615	4	60	35	1,663	16,630
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	0.06	300	4	60	35	1,699	16,990
2A	Central Ave	East of Mountain Ave	0.16	855	3	37	35	1,487	14,870
2A	Central Ave	West of Buena Vista St	0.27	1,400	2	37	35	549	5,490
2A	Central Ave	Buena Vista St to I-210 WB	0.07	365	4	60	35	1,273	12,730
2A	Central Ave	I-210 WB to Duncannon Ave	0.20	1,070	2	37	25	1,259	12,590
2A	Central Ave	Duncannon Ave to Highland Ave	0.35	1,850	2	37	35	914	9,140
3A	Duarte Rd	Mountain Ave to Buena Vista St	0.50	2,650	4	70	40	1,356	13,560
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	0.12	650	4	77	40	1,804	18,040
3C	Duarte Rd	Cinco Robles Dr to Village Rd	0.07	370	4	77	40	1,715	17,150
3D	Duarte Rd	Village Rd to Highland Ave	0.42	2,225	4	77	40	1,137	11,370
4	Duncannon Ave	Central Ave to Evergreen St	0.06	320	2	40	25	214	2,140
5A	Evergreen St	East of Mountain Ave	0.32	1,685	2	30	35	1,932	19,320
5B	Evergreen St	West of Buena Vista St	0.18	960	2	30	35	860	8,600
5C	Evergreen St	Duncannon Ave to Highland Ave	0.35	1,840	2	30	30	169	1,690
6A	Highland Ave	Huntington Dr to Central Ave	0.25	1,310	4	60	25	1,385	13,850
6B	Highland Ave	Central Ave to Evergreen St	0.07	355	4	60	35	1,732	17,320
6C	Highland Ave	Evergreen St to Business Center Dr	0.06	295	4	60	35	1,587	15,870
6D	Highland Ave	Business Center Dr to Duarte Rd	0.13	670	4	60	35	1,471	14,710
7A	Huntingon Dr	Buena Vista St to Highland Ave	0.63	3,310	4	80	40	2,524	25,240
7B	Huntingon Dr	Highland Ave to Mt Olive Dr	0.63	3,310	4	80	40	3,032	30,320
8A	Mountain Ave	Central Ave to Evergreen St	0.05	280	4	67	35	2,114	21,140
8B	Mountain Ave	Evergreen St to Duarte Rd	0.18	940	4	67	35	1,493	14,930
9A	I210 w/out barrier	Adjacent to Evergreen St	0.09	500	12	170	65		280,032
9B	I210 w/barrier	Adjacent to Evergreen St	0.09	500	12	170	65		280,032

Duarte Station Specific Plan					
Duarte, CA					
Appendix: Traffic Noise Model Inputs - Vehicle Fleet Mix					
Prepared by MIG, July 2019					
<b>TNM2.5/EMFAC2017 VEHICLE POPULATION INFORMATION</b>					
<b>TNM Vehicle Type</b>	<b>Vehicle Class (EMFAC2007)</b>	<b>2019 Vehicle Population</b>	<b>2019 Vehicle Population %</b>	<b>2040 Vehicle Population</b>	<b>2040 Vehicle Population %</b>
Auto	LDA	3,900,941	55.3%	4,219,323	53.9%
Auto	LDT1	415,551	5.9%	507,421	6.5%
Auto	LDT2	1,311,490	18.6%	1,487,969	19.0%
Auto	LHDT1	156,330	2.2%	182,875	2.3%
Auto	MDV	903,623	12.8%	993,583	12.7%
<b>Subtotal</b>		<b>6,687,936</b>	<b>95%</b>	<b>7,391,171</b>	<b>94%</b>
Medium Truck	LHDT2	37,342	0.5%	49,841	0.6%
Medium Truck	MHDT	76,085	1.1%	85,372	1.1%
Medium Truck	OBUS	6,962	0.1%	7,310	0.1%
Medium Truck	SBUS	4,432	0.1%	5,238	0.1%
<b>Subtotal</b>		<b>124,821</b>	<b>2%</b>	<b>147,762</b>	<b>2%</b>
Heavy Truck	HHDT	55,641	0.8%	63,142	0.8%
Heavy Truck	MH	23,808	0.3%	25,642	0.3%
Heavy Truck	UBUS	4,527	0.1%	4,694	0.1%
<b>Subtotal</b>		<b>83,977</b>	<b>1%</b>	<b>93,478</b>	<b>1%</b>
Motorcycle	MC	155,071	2.2%	196,540	2.5%
<b>Subtotal</b>		<b>155,071</b>	<b>2%</b>	<b>196,540</b>	<b>3%</b>
<b>TOTAL</b>		<b>7,051,805</b>	<b>100.0%</b>	<b>7,828,951</b>	<b>100.0%</b>

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2019, 2040

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Yea	Vehicle Categ	Model Year	Speed	Fuel	Population	VMT	Trips	ROG_RUNEX
Los Angeles (	2019	HHDT	Aggregated	Aggregated	GAS	70.1376342	5745.854855	1403.31379	0.005925142
Los Angeles (	2019	HHDT	Aggregated	Aggregated	DSL	53493.0027	6393903.432	526213.356	1.31439047
Los Angeles (	2019	HHDT	Aggregated	Aggregated	NG	2078.28919	84546.45018	8105.32786	0.047743451
Los Angeles (	2019	LDA	Aggregated	Aggregated	GAS	3824691.22	151393815.7	18027338.3	3.30371076
Los Angeles (	2019	LDA	Aggregated	Aggregated	DSL	28023.0913	1131318.278	131436.74	0.038938628
Los Angeles (	2019	LDA	Aggregated	Aggregated	ELEC	48227.0538	1868211.138	242582.098	0
Los Angeles (	2019	LDT1	Aggregated	Aggregated	GAS	414008.59	15846032.62	1897905.49	0.953412554
Los Angeles (	2019	LDT1	Aggregated	Aggregated	DSL	347.149149	8765.049263	1239.75627	0.002229509
Los Angeles (	2019	LDT1	Aggregated	Aggregated	ELEC	1195.47979	40706.92535	5745.87881	0
Los Angeles (	2019	LDT2	Aggregated	Aggregated	GAS	1298970.48	50631402.19	6073756.95	1.785288502
Los Angeles (	2019	LDT2	Aggregated	Aggregated	DSL	6219.76006	284822.9329	30920.5394	0.008197359
Los Angeles (	2019	LDT2	Aggregated	Aggregated	ELEC	6300.02799	220572.3339	32115.473	0
Los Angeles (	2019	LHDT1	Aggregated	Aggregated	GAS	106632.405	3979863.121	1588663.96	0.240929781
Los Angeles (	2019	LHDT1	Aggregated	Aggregated	DSL	49697.5227	2199080.991	625132.316	0.201861102
Los Angeles (	2019	LHDT2	Aggregated	Aggregated	GAS	17307.9464	621230.0872	257862.612	0.027418838
Los Angeles (	2019	LHDT2	Aggregated	Aggregated	DSL	20034.4573	855069.0774	252008.27	0.076551244
Los Angeles (	2019	MCY	Aggregated	Aggregated	GAS	155070.671	1122451.783	310141.342	3.313097807
Los Angeles (	2019	MDV	Aggregated	Aggregated	GAS	888685.123	32077377.96	4105187.13	1.905451582
Los Angeles (	2019	MDV	Aggregated	Aggregated	DSL	13746.8578	582073.9425	68145.5104	0.012610483
Los Angeles (	2019	MDV	Aggregated	Aggregated	ELEC	1191.24119	41902.69663	6070.76713	0
Los Angeles (	2019	MH	Aggregated	Aggregated	GAS	18867.4825	187915.2952	1887.50295	0.0216667
Los Angeles (	2019	MH	Aggregated	Aggregated	DSL	4940.88628	52784.32924	494.088628	0.004567854
Los Angeles (	2019	MHDT	Aggregated	Aggregated	GAS	14359.3955	787937.6444	287302.784	0.103980369
Los Angeles (	2019	MHDT	Aggregated	Aggregated	DSL	61725.3937	3792666.462	603492.146	0.817405249
Los Angeles (	2019	OBUS	Aggregated	Aggregated	GAS	4019.29961	177590.6172	80418.1465	0.017061562
Los Angeles (	2019	OBUS	Aggregated	Aggregated	DSL	2942.85297	217614.5591	28954.2587	0.060640933
Los Angeles (	2019	SBUS	Aggregated	Aggregated	GAS	1075.22141	45425.07347	4300.88563	0.003742835
Los Angeles (	2019	SBUS	Aggregated	Aggregated	DSL	3356.4354	106571.1621	38732.7992	0.014957113
Los Angeles (	2019	UBUS	Aggregated	Aggregated	GAS	448.160627	32414.88694	1792.64251	0.000716817
Los Angeles (	2019	UBUS	Aggregated	Aggregated	DSL	14.1944	1580.590656	56.7776	5.2756E-06
Los Angeles (	2019	UBUS	Aggregated	Aggregated	ELEC	12	1070.403311	48	0
Los Angeles (	2019	UBUS	Aggregated	Aggregated	NG	4052.98369	429071.0422	16211.9348	0.15667791
				Total Veh.		7051804.81			

EMFAC2017 (v1.0.2) Emission Rates

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, F

Region	Calendar Yea	Vehicle Categ	Model Year	Speed	Fuel	Population	VMT	Trips	ROG_RUNEX
Los Angeles (	2025	HHDT	Aggregated	Aggregated	GAS	51.5091585	6279.225697	1030.59524	0.401944648
Los Angeles (	2025	HHDT	Aggregated	Aggregated	DSL	59964.7024	7210429.303	603407.228	0.019982037
Los Angeles (	2025	HHDT	Aggregated	Aggregated	NG	3125.984	127327.5545	12191.3376	0.245521814
Los Angeles (	2025	LDA	Aggregated	Aggregated	GAS	4055770.86	148167344.8	19132327.9	0.00803703
Los Angeles (	2025	LDA	Aggregated	Aggregated	DSL	40165.3598	1525959.122	191058.951	0.015120393
Los Angeles (	2025	LDA	Aggregated	Aggregated	ELEC	123387.198	5311624.047	613370.089	0
Los Angeles (	2025	LDT1	Aggregated	Aggregated	GAS	499962.223	17936852.83	2319231.34	0.022848818
Los Angeles (	2025	LDT1	Aggregated	Aggregated	DSL	219.267743	5298.916191	778.971729	0.162506556
Los Angeles (	2025	LDT1	Aggregated	Aggregated	ELEC	7239.82791	319787.924	36254.1632	0
Los Angeles (	2025	LDT2	Aggregated	Aggregated	GAS	1449451.69	52839722.85	6815060.03	0.014730298
Los Angeles (	2025	LDT2	Aggregated	Aggregated	DSL	11309.0175	447477.7824	55247.7284	0.022070476
Los Angeles (	2025	LDT2	Aggregated	Aggregated	ELEC	27208.1308	833021.533	136529.907	0
Los Angeles (	2025	LHDT1	Aggregated	Aggregated	GAS	105035.24	3739637.806	1564868.58	0.023903282
Los Angeles (	2025	LHDT1	Aggregated	Aggregated	DSL	77839.376	3150817.435	979121.428	0.056302394
Los Angeles (	2025	LHDT2	Aggregated	Aggregated	GAS	18214.5893	625282.3714	271370.241	0.016087333
Los Angeles (	2025	LHDT2	Aggregated	Aggregated	DSL	31626.3724	1228533.957	397819.979	0.056241147
Los Angeles (	2025	MCY	Aggregated	Aggregated	GAS	196539.68	1308120.512	393079.359	2.602921546
Los Angeles (	2025	MDV	Aggregated	Aggregated	GAS	951896.889	32309577.61	4428022.92	0.018646131
Los Angeles (	2025	MDV	Aggregated	Aggregated	DSL	24603.8523	911875.045	119860.46	0.013231753
Los Angeles (	2025	MDV	Aggregated	Aggregated	ELEC	17082.5656	536506.7156	86444.6953	0
Los Angeles (	2025	MH	Aggregated	Aggregated	GAS	18896.5864	192124.87	1890.4145	0.033486929
Los Angeles (	2025	MH	Aggregated	Aggregated	DSL	6745.29341	68685.08907	674.529341	0.06139979
Los Angeles (	2025	MHDT	Aggregated	Aggregated	GAS	14915.3847	806295.8787	298427.016	0.037660863
Los Angeles (	2025	MHDT	Aggregated	Aggregated	DSL	70456.8384	4438143.009	699620.083	0.007893373
Los Angeles (	2025	OBUS	Aggregated	Aggregated	GAS	3952.68764	153092.6769	79085.3743	0.045720503
Los Angeles (	2025	OBUS	Aggregated	Aggregated	DSL	3357.42421	252475.1261	32687.9111	0.011217779
Los Angeles (	2025	SBUS	Aggregated	Aggregated	GAS	1686.65716	65361.13425	6746.62866	0.041078372
Los Angeles (	2025	SBUS	Aggregated	Aggregated	DSL	3551.77173	112277.3688	40986.9533	0.098273861
Los Angeles (	2025	UBUS	Aggregated	Aggregated	GAS	469.119885	33573.25703	1876.47954	0.019643165
Los Angeles (	2025	UBUS	Aggregated	Aggregated	DSL	6.0834	752.2395132	24.3336	0.001160062
Los Angeles (	2025	UBUS	Aggregated	Aggregated	ELEC	12	1070.403311	48	0
Los Angeles (	2025	UBUS	Aggregated	Aggregated	NG	4206.88601	445327.3012	16827.544	0.090602523
				Total Veh.		7828951.07			



**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>					
<b>C. Dugan</b>							<b>TNM 2.5</b>					
							<b>Calculated with TNM 2.5</b>					
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>										
<b>RUN:</b>		<b>E19_01A_BuenaVista: Hunting to Central</b>										
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	69.4	66	69.4	10	Snd Lvl	69.4	0.0	8	-8.0
100 Feet from Centerline	2	1	0.0	66.4	66	66.4	10	Snd Lvl	66.4	0.0	8	-8.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
All Selected		2	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_01B_BuenaVista: Central to 210WB												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	68.0	0	68.0	0	Snd Lvl	68.0	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	63.4	0	63.4	0	Snd Lvl	63.4	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>15 July 2019</b>												
<b>TNM 2.5</b>												
<b>Calculated with TNM 2.5</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: E19_01C_BuenaVista: 210WB to 210EB</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	68.7	0	68.7	0	Snd Lvl	68.7	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	64.9	0	64.9	0	Snd Lvl	64.9	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_01D_BuenaVista: 210EB to 3Ranch												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	68.7	0	68.7	0	Snd Lvl	68.7	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	65.4	0	65.4	0	Snd Lvl	65.4	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_01E_BuenaVista: 3Ranch to Duarte												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	68.1	0	68.1	0	Snd Lvl	68.1	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	64.4	0	64.4	0	Snd Lvl	64.4	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>													
<b>C. Dugan</b>													
<b>15 July 2019</b>													
<b>TNM 2.5</b>													
<b>Calculated with TNM 2.5</b>													
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>													
<b>RUN: E19_02A_Central: E/O Mountain Ave</b>													
<b>BARRIER DESIGN: INPUT HEIGHTS</b>													
<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</b>													
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>													
<b>Receiver</b>													
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>				
									<b>Calculated Lden</b>	<b>Noise Reduction Calculated</b>		<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	69.3	0	69.3	0	Snd Lvl	69.3	0.0	0	0	0.0
100 Feet from Centerline	2	1	0.0	66.2	0	66.2	0	Snd Lvl	66.2	0.0	0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>										
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>								
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								

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_02B_Central: W/O BuenaVista												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	65.3	0	65.3	0	Snd Lvl	65.3	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	62.3	0	62.3	0	Snd Lvl	62.3	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: E19_02C_Central: BuenaVis to 210WB</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>		<b>Increase over existing</b>		<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>		
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>
							<b>Sub'l Inc</b>					<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	68.0	0	68.0	0	Snd Lvl	68.0	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	64.4	0	64.4	0	Snd Lvl	64.4	0.0	0	0.0
<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		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							



**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_02D_Central: 210WB to Duncannon												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	65.3	0	65.3	0	Snd Lvl	65.3	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	62.3	0	62.3	0	Snd Lvl	62.3	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_02E_Central: Duncannon to Highland												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	67.3	0	67.3	0	Snd Lvl	67.3	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	64.3	0	64.3	0	Snd Lvl	64.3	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_03A_Duarte: Mountain to Buena Vist												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction Calculated</b>		<b>Goal</b>
												<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	70.3	0	70.3	0	Snd Lvl	70.3	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	67.4	0	67.4	0	Snd Lvl	67.4	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>													
<b>C. Dugan</b>													
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>													
<b>RUN: E19_03B_Duarte: Buena Vista to Cinco</b>													
<b>BARRIER DESIGN: INPUT HEIGHTS</b>													
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>													
<b>Receiver</b>													
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>				
									<b>Calculated Lden</b>	<b>Noise Reduction Calculated</b>		<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	70.6	0	70.6	0	Snd Lvl	70.6	0.0	0	0	0.0
100 Feet from Centerline	2	1	0.0	67.3	0	67.3	0	Snd Lvl	67.3	0.0	0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>										
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>								
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								

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>					
<b>C. Dugan</b>							<b>TNM 2.5</b>					
							<b>Calculated with TNM 2.5</b>					
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>										
<b>RUN:</b>		<b>E19_03C_Duarte: Cinco Robles to Village</b>										
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	69.9	0	69.9	0	Snd Lvl	69.9	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	66.3	0	66.3	0	Snd Lvl	66.3	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>					
<b>C. Dugan</b>							<b>TNM 2.5</b>					
							<b>Calculated with TNM 2.5</b>					
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>										
<b>RUN:</b>		<b>E19_03D_Duarte: Village to Highland</b>										
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	69.8	0	69.8	0	Snd Lvl	69.8	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	66.9	0	66.9	0	Snd Lvl	66.9	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_04_Duncannon: Village to Highland												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	56.9	0	56.9	0	Snd Lvl	56.9	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	53.2	0	53.2	0	Snd Lvl	53.2	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_05A_Evergreen: E/O Mountain												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden Calculated</b>	<b>Crit'n</b>	<b>Increase over existing</b>		<b>With Barrier</b>				
						<b>Calculated</b>	<b>Crit'n</b>	<b>Type Impact</b>	<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
							<b>Sub'l Inc</b>			<b>Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	70.5	0	70.5	0	Snd Lvl	70.5	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	67.5	0	67.5	0	Snd Lvl	67.5	0.0	0	0.0
<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		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							



**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_05B_Evergreen: W/O BuenaVista												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	66.4	0	66.4	0	Snd Lvl	66.4	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	63.3	0	63.3	0	Snd Lvl	63.3	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: E19_05C_Evergreen: Duncann to HighInd</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	58.0	0	58.0	0	Snd Lvl	58.0	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	55.0	0	55.0	0	Snd Lvl	55.0	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_06A_Highland: Huntington to Central												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	65.1	0	65.1	0	Snd Lvl	65.1	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	62.1	0	62.1	0	Snd Lvl	62.1	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_06B_Highland: Central to Evergreen												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	68.7	0	68.7	0	Snd Lvl	68.7	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	65.1	0	65.1	0	Snd Lvl	65.1	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>15 July 2019</b>												
<b>TNM 2.5</b>												
<b>Calculated with TNM 2.5</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: E19_06C_Highland: Evergreen to Bus Ctr</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	68.1	0	68.1	0	Snd Lvl	68.1	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	64.3	0	64.3	0	Snd Lvl	64.3	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_06D_Highland: Bus Ctr to Duarte												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	68.5	0	68.5	0	Snd Lvl	68.5	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	65.3	0	65.3	0	Snd Lvl	65.3	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_07A_Huntington: BVista to Highland												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	73.2	0	73.2	0	Snd Lvl	73.2	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	70.3	0	70.3	0	Snd Lvl	70.3	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_07B_Huntington:Highland to MtOlive												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	73.7	0	73.7	0	Snd Lvl	73.7	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	70.8	0	70.8	0	Snd Lvl	70.8	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							



**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: E19_08A_Mountain: Central to Evergreen</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>	<b>Crit'n</b>	<b>Increase over existing</b>	<b>Crit'n</b>	<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>	<b>Goal</b>	<b>Calculated</b>
				<b>Calculated</b>		<b>Calculated</b>	<b>Sub'l Inc</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>Goal</b>
50 Feet from Centerline	1	1	0.0	69.7	0	69.7	0	Snd Lvl	69.7	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	65.9	0	65.9	0	Snd Lvl	65.9	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>						
<b>C. Dugan</b>							<b>TNM 2.5</b>						
							<b>Calculated with TNM 2.5</b>						
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT:</b>			<b>Duarte Station SP Update</b>										
<b>RUN:</b>			<b>E19_08B_Mountain: Evergreen to Duarte</b>										
<b>BARRIER DESIGN:</b>			<b>INPUT HEIGHTS</b>				<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden Calculated</b>	<b>Crit'n</b>	<b>Increase over existing</b>		<b>With Barrier</b>				
							<b>Calculated</b>	<b>Crit'n</b>	<b>Type Impact</b>	<b>Calculated Lden</b>	<b>Noise Reduction</b>		
								<b>Sub'l Inc</b>			<b>Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>
				<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline		1	1	0.0	69.4	0	69.4	0	Snd Lvl	69.4	0.0	0	0.0
100 Feet from Centerline		2	1	0.0	66.3	0	66.3	0	Snd Lvl	66.3	0.0	0	0.0
<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			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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
17 July 2019												
TNM 2.5												
Calculated with TNM 2.5												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19_09A_I210: Adjacent No Barrier												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden Calculated</b>	<b>Crit'n</b>	<b>Increase over existing</b>		<b>With Barrier</b>				
						<b>Calculated</b>	<b>Crit'n</b>	<b>Type Impact</b>	<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
							<b>Sub'l Inc</b>			<b>Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
185 Feet from Centerline	1	1	0.0	71.1	66	71.1	10	Snd Lvl	71.1	0.0	8	-8.0
390 Feet from Centerline	2	1	0.0	74.2	66	74.2	10	Snd Lvl	74.2	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		2	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>													
<b>C. Dugan</b>													
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>													
<b>RUN: E19_09B_I210: Adjacent With Barrier</b>													
<b>BARRIER DESIGN: INPUT HEIGHTS</b>													
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>													
<b>Receiver</b>													
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>				
			<b>Lden</b>	<b>Lden</b>		<b>Increase over existing</b>		<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>			
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>	
							<b>Sub'l Inc</b>					<b>minus</b>	
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
185 Feet from Centerline	1	1	0.0	66.5	66	66.5	10	Snd Lvl	66.5	0.0	8	-8.0	
390 Feet from Centerline	2	1	0.0	64.3	66	64.3	10	----	64.3	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		2	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								

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>													15 July 2019	
<b>C. Dugan</b>													TNM 2.5	
													Calculated with TNM 2.5	
<b>RESULTS: SOUND LEVELS</b>														
<b>PROJECT/CONTRACT:</b>			Duarte Station SP Update											
<b>RUN:</b>			E19PP_01A_BuenaV: Hunting to Central											
<b>BARRIER DESIGN:</b>			INPUT HEIGHTS							Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.				
<b>ATMOSPHERICS:</b>			68 deg F, 50% RH											
<b>Receiver</b>														
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden Calculated</b>	<b>Crit'n</b>	<b>Increase over existing</b>		<b>With Barrier</b>						
						<b>Calculated</b>	<b>Crit'n</b>	<b>Type Impact</b>	<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>		
							<b>Sub'l Inc</b>			<b>Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>		
			dB	dB	dB	dB	dB		dB	dB	dB	dB		
50 Feet from Centerline	1	1	0.0	69.4	66	69.4	10	Snd Lvl	69.4	0.0	8	-8.0		
100 Feet from Centerline	2	1	0.0	66.4	66	66.4	10	Snd Lvl	66.4	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>									
			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		0	0.0	0.0	0.0									

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

MIG					15 July 2019								
C. Dugan					TNM 2.5								
					Calculated with TNM 2.5								
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT:</b>					Duarte Station SP Update								
<b>RUN:</b>					E19PP_01B_BuenaV: Central to 210WB								
<b>BARRIER DESIGN:</b>					INPUT HEIGHTS								
<b>ATMOSPHERICS:</b>					68 deg F, 50% RH								
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.													
<b>Receiver</b>													
Name	No.	#DUs	Existing			Increase over existing		With Barrier					
			Lden	No Barrier Lden Calculated	Crit'n	Calculated	Crit'n	Type Impact	Calculated Lden	Noise Reduction		Calculated minus Goal	
			dBA	dBA	dBA								
			dBA	dBA	dBA								
50 Feet from Centerline	1	1	0.0	68.0	0	68.0	0	Snd Lvl	68.0	0.0	0	0.0	
100 Feet from Centerline	2	1	0.0	63.5	0	63.5	0	Snd Lvl	63.5	0.0	0	0.0	
<b>Dwelling Units</b>		# DUs	<b>Noise Reduction</b>										
			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								

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19PP_01C_BuenaVist: 210WB to 210EB												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	68.8	0	68.8	0	Snd Lvl	68.8	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	64.9	0	64.9	0	Snd Lvl	64.9	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>					
<b>C. Dugan</b>							<b>TNM 2.5</b>					
							<b>Calculated with TNM 2.5</b>					
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>										
<b>RUN:</b>		<b>E19PP_01D_BuenaVist: 210EB to 3Ranch</b>										
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	68.9	0	68.9	0	Snd Lvl	68.9	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	65.7	0	65.7	0	Snd Lvl	65.7	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							



**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>													15 July 2019	
<b>C. Dugan</b>													TNM 2.5	
													Calculated with TNM 2.5	
<b>RESULTS: SOUND LEVELS</b>														
<b>PROJECT/CONTRACT:</b>			Duarte Station SP Update											
<b>RUN:</b>			E19PP_01E_BuenaV: 3Ranch to Duarte											
<b>BARRIER DESIGN:</b>			INPUT HEIGHTS										Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.	
<b>ATMOSPHERICS:</b>			68 deg F, 50% RH											
<b>Receiver</b>														
<b>Name</b>		<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>		<b>Increase over existing</b>		<b>With Barrier</b>					
				<b>Lden</b>	<b>Lden</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>			
					<b>Calculated</b>			<b>Sub'l Inc</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>	
													<b>minus</b>	
				<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>Goal</b>	
50 Feet from Centerline		1	1	0.0	68.5	0	68.5	0	Snd Lvl	68.5	0.0	0	0.0	
100 Feet from Centerline		2	1	0.0	64.7	0	64.7	0	Snd Lvl	64.7	0.0	0	0.0	
<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			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								

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19PP_02A_Central: E/O Mountain Ave												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	69.3	0	69.3	0	Snd Lvl	69.3	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	66.2	0	66.2	0	Snd Lvl	66.2	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: E19PP_02B_Central: W/O BuenaVista</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>		<b>Increase over existing</b>		<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>		
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>
							<b>Sub'l Inc</b>					<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	65.3	0	65.3	0	Snd Lvl	65.3	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	62.3	0	62.3	0	Snd Lvl	62.3	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: E19PP_02C_Central: BuenaVis to 210WB</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>		<b>Increase over existing</b>		<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>		
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>
							<b>Sub'l Inc</b>					<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	68.1	0	68.1	0	Snd Lvl	68.1	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	64.5	0	64.5	0	Snd Lvl	64.5	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>						<b>15 July 2019</b>						
<b>C. Dugan</b>						<b>TNM 2.5</b>						
						<b>Calculated with TNM 2.5</b>						
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>			<b>Duarte Station SP Update</b>									
<b>RUN:</b>			<b>E19PP_02D_Central: 210WB to Duncanno</b>									
<b>BARRIER DESIGN:</b>			<b>INPUT HEIGHTS</b>				<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden Calculated</b>	<b>Crit'n</b>	<b>Increase over existing</b>		<b>With Barrier</b>				
						<b>Calculated</b>	<b>Crit'n</b>	<b>Type Impact</b>	<b>Calculated Lden</b>	<b>Noise Reduction</b>		
							<b>Sub'l Inc</b>			<b>Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	65.5	0	65.5	0	Snd Lvl	65.5	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	62.5	0	62.5	0	Snd Lvl	62.5	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19PP_02E_Central: Duncannon to Highla												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	67.6	0	67.6	0	Snd Lvl	67.6	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	64.6	0	64.6	0	Snd Lvl	64.6	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>15 July 2019</b>												
<b>TNM 2.5</b>												
<b>Calculated with TNM 2.5</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: E19PP_03A_Duarte: Mountain to BuenaV</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	70.5	0	70.5	0	Snd Lvl	70.5	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	67.6	0	67.6	0	Snd Lvl	67.6	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>					
<b>C. Dugan</b>							<b>TNM 2.5</b>					
							<b>Calculated with TNM 2.5</b>					
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>										
<b>RUN:</b>		<b>E19PP_03B_Duarte: Buena Vista to Cinco</b>										
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	71.1	0	71.1	0	Snd Lvl	71.1	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	67.8	0	67.8	0	Snd Lvl	67.8	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							



**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>15 July 2019</b>												
<b>TNM 2.5</b>												
<b>Calculated with TNM 2.5</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: E19PP_03C_Duarte: Cinco Robles to Villa</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	70.5	0	70.5	0	Snd Lvl	70.5	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	66.8	0	66.8	0	Snd Lvl	66.8	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: E19PP_03D_Duarte: Village to Highland</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>		<b>Increase over existing</b>		<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>		
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>
							<b>Sub'l Inc</b>					<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	70.5	0	70.5	0	Snd Lvl	70.5	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	67.6	0	67.6	0	Snd Lvl	67.6	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>					
<b>C. Dugan</b>							<b>TNM 2.5</b>					
							<b>Calculated with TNM 2.5</b>					
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>										
<b>RUN:</b>		<b>E19PP_04_Duncannon: Village to Highlan</b>										
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
								<b>Calculated Lden</b>	<b>Noise Reduction Calculated</b>		<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	57.2	0	57.2	0	Snd Lvl	57.2	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	53.5	0	53.5	0	Snd Lvl	53.5	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: E19PP_05A_Evergreen: E/O Mountain</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>		<b>Increase over existing</b>		<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>		
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>
							<b>Sub'l Inc</b>					<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	70.5	0	70.5	0	Snd Lvl	70.5	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	67.6	0	67.6	0	Snd Lvl	67.6	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: E19PP_05B_Evergreen: W/O BuenaVista</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>		<b>Increase over existing</b>		<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>		
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>
							<b>Sub'l Inc</b>					<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	66.4	0	66.4	0	Snd Lvl	66.4	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	63.4	0	63.4	0	Snd Lvl	63.4	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19PP_05C_Evergreen: Duncann to Highl												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	58.6	0	58.6	0	Snd Lvl	58.6	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	55.7	0	55.7	0	Snd Lvl	55.7	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>					
<b>C. Dugan</b>							<b>TNM 2.5</b>					
							<b>Calculated with TNM 2.5</b>					
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>										
<b>RUN:</b>		<b>E19PP_06A_Highland: Huntington to Centr</b>										
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
								<b>Calculated Lden</b>	<b>Noise Reduction Calculated</b>		<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	65.9	0	65.9	0	Snd Lvl	65.9	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	62.9	0	62.9	0	Snd Lvl	62.9	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>													
<b>C. Dugan</b>													
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update													
<b>RUN:</b> E19PP_06B_Highland: Central to Evergre													
<b>BARRIER DESIGN:</b> INPUT HEIGHTS													
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.													
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH													
<b>Receiver</b>													
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>				
									<b>Calculated Lden</b>	<b>Noise Reduction Calculated</b>		<b>Goal</b>	<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	69.5	0	69.5	0	Snd Lvl	69.5	0.0	0	0	0.0
100 Feet from Centerline	2	1	0.0	65.9	0	65.9	0	Snd Lvl	65.9	0.0	0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>										
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>								
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								



**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>					
<b>C. Dugan</b>							<b>TNM 2.5</b>					
							<b>Calculated with TNM 2.5</b>					
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>										
<b>RUN:</b>		<b>E19PP_06C_Highland: Evergreen to BsCtr</b>										
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
								<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	68.9	0	68.9	0	Snd Lvl	68.9	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	65.1	0	65.1	0	Snd Lvl	65.1	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>						<b>15 July 2019</b>						
<b>C. Dugan</b>						<b>TNM 2.5</b>						
						<b>Calculated with TNM 2.5</b>						
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>			<b>Duarte Station SP Update</b>									
<b>RUN:</b>			<b>E19PP_06D_Highland: Bus Ctr to Duarte</b>									
<b>BARRIER DESIGN:</b>			<b>INPUT HEIGHTS</b>				<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	69.2	0	69.2	0	Snd Lvl	69.2	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	66.0	0	66.0	0	Snd Lvl	66.0	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19PP_07A_Huntington: BVista to Highlan												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	73.2	0	73.2	0	Snd Lvl	73.2	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	70.3	0	70.3	0	Snd Lvl	70.3	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>					
<b>C. Dugan</b>							<b>TNM 2.5</b>					
							<b>Calculated with TNM 2.5</b>					
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>										
<b>RUN:</b>		<b>E19PP_07B_Huntington:Highland to MtOliv</b>										
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	74.0	0	74.0	0	Snd Lvl	74.0	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	71.1	0	71.1	0	Snd Lvl	71.1	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>						
<b>C. Dugan</b>							<b>TNM 2.5</b>						
							<b>Calculated with TNM 2.5</b>						
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT:</b>			<b>Duarte Station SP Update</b>										
<b>RUN:</b>			<b>E19PP_08A_Mountain: Central to Evergre</b>										
<b>BARRIER DESIGN:</b>			<b>INPUT HEIGHTS</b>				<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>				
								<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	69.8	0	69.8	0	Snd Lvl	69.8	0.0	0	0	0.0
100 Feet from Centerline	2	1	0.0	65.9	0	65.9	0	Snd Lvl	65.9	0.0	0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>										
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>								
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								

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>													
<b>C. Dugan</b>													
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update													
<b>RUN:</b> E19PP_08B_Mountain: Evergreen to Duar													
<b>BARRIER DESIGN:</b> INPUT HEIGHTS													
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.													
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH													
<b>Receiver</b>													
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>				
									<b>Calculated Lden</b>	<b>Noise Reduction Calculated</b>		<b>Goal</b>	<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	69.5	0	69.5	0	Snd Lvl	69.5	0.0	0	0	0.0
100 Feet from Centerline	2	1	0.0	66.4	0	66.4	0	Snd Lvl	66.4	0.0	0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>										
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>								
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								

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
17 July 2019												
TNM 2.5												
Calculated with TNM 2.5												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> E19PP_09A_I210: Adjacent No Barrier												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden Calculated</b>	<b>Crit'n</b>	<b>Increase over existing</b>		<b>With Barrier</b>				
						<b>Calculated</b>	<b>Crit'n</b>	<b>Type Impact</b>	<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
							<b>Sub'l Inc</b>			<b>Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
185 Feet from Centerline	1	1	0.0	71.1	66	71.1	10	Snd Lvl	71.1	0.0	8	-8.0
390 Feet from Centerline	2	1	0.0	74.2	66	74.2	10	Snd Lvl	74.2	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		2	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: E19PP_09B_I210: Adjacent With Barrier</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
185 Feet from Centerline	1	1	0.0	66.5	66	66.5	10	Snd Lvl	66.5	0.0	8	-8.0
390 Feet from Centerline	2	1	0.0	64.3	66	64.3	10	----	64.3	0.0	8	-8.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
All Selected		2	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							



**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25_01A_BuenaVista: Hunting to Central												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	70.3	66	70.3	10	Snd Lvl	70.3	0.0	8	-8.0
100 Feet from Centerline	2	1	0.0	67.3	66	67.3	10	Snd Lvl	67.3	0.0	8	-8.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
All Selected		2	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>						<b>15 July 2019</b>						
<b>C. Dugan</b>						<b>TNM 2.5</b>						
						<b>Calculated with TNM 2.5</b>						
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>			<b>Duarte Station SP Update</b>									
<b>RUN:</b>			<b>F25_01B_BuenaVista: Central to 210WB</b>									
<b>BARRIER DESIGN:</b>			<b>INPUT HEIGHTS</b>				<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
								<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	68.8	0	68.8	0	Snd Lvl	68.8	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	64.2	0	64.2	0	Snd Lvl	64.2	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>						<b>15 July 2019</b>						
<b>C. Dugan</b>						<b>TNM 2.5</b>						
						<b>Calculated with TNM 2.5</b>						
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>										
<b>RUN:</b>		<b>F25_01C_BuenaVista: 210WB to 210EB</b>										
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	69.7	0	69.7	0	Snd Lvl	69.7	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	65.9	0	65.9	0	Snd Lvl	65.9	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25_01D_BuenaVista: 210EB to 3Ranch												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	70.0	0	70.0	0	Snd Lvl	70.0	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	66.7	0	66.7	0	Snd Lvl	66.7	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25_01E_BuenaVista: 3Ranch to Duarte</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>		<b>Increase over existing</b>		<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>		
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>
							<b>Sub'l Inc</b>					<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>Goal</b>
50 Feet from Centerline	1	1	0.0	69.4	0	69.4	0	Snd Lvl	69.4	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	65.6	0	65.6	0	Snd Lvl	65.6	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25_02A_Central: E/O Mountain Ave												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	69.8	0	69.8	0	Snd Lvl	69.8	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	66.7	0	66.7	0	Snd Lvl	66.7	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25_02B_Central: W/O BuenaVista</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	65.6	0	65.6	0	Snd Lvl	65.6	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	62.6	0	62.6	0	Snd Lvl	62.6	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>15 July 2019</b>												
<b>TNM 2.5</b>												
<b>Calculated with TNM 2.5</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25_02C_Central: BuenaVis to 210WB</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	68.5	0	68.5	0	Snd Lvl	68.5	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	64.9	0	64.9	0	Snd Lvl	64.9	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							



**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25_02D_Central: 210WB to Duncannon</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	65.6	0	65.6	0	Snd Lvl	65.6	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	62.6	0	62.6	0	Snd Lvl	62.6	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25_02E_Central: Duncannon to Highland</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	67.6	0	67.6	0	Snd Lvl	67.6	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	64.7	0	64.7	0	Snd Lvl	64.7	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25_03A_Duarte: Mountain to Buena Vist</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>		<b>Increase over existing</b>		<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>		
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>
							<b>Sub'l Inc</b>					<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	71.0	0	71.0	0	Snd Lvl	71.0	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	68.1	0	68.1	0	Snd Lvl	68.1	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25_03B_Duarte: Buena Vista to Cinco</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>		<b>Increase over existing</b>		<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>		
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>
							<b>Sub'l Inc</b>					<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	71.7	0	71.7	0	Snd Lvl	71.7	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	68.5	0	68.5	0	Snd Lvl	68.5	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>					
<b>C. Dugan</b>							<b>TNM 2.5</b>					
							<b>Calculated with TNM 2.5</b>					
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>										
<b>RUN:</b>		<b>F25_03C_Duarte: Cinco Robles to Village</b>										
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	71.1	0	71.1	0	Snd Lvl	71.1	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	67.5	0	67.5	0	Snd Lvl	67.5	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25_03D_Duarte: Village to Highland</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>	<b>Crit'n</b>	<b>Increase over existing</b>	<b>Crit'n</b>	<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>	<b>Goal</b>	<b>Calculated</b>
				<b>Calculated</b>		<b>Calculated</b>	<b>Sub'l Inc</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>minus</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>Goal</b>
50 Feet from Centerline	1	1	0.0	70.5	0	70.5	0	Snd Lvl	70.5	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	67.6	0	67.6	0	Snd Lvl	67.6	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25_04_Duncannon: Village to Highland												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	57.1	0	57.1	0	Snd Lvl	57.1	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	53.5	0	53.5	0	Snd Lvl	53.5	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25_05A_Evergreen: E/O Mountain												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	71.1	0	71.1	0	Snd Lvl	71.1	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	68.1	0	68.1	0	Snd Lvl	68.1	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							



**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25_05B_Evergreen: W/O BuenaVista												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	67.4	0	67.4	0	Snd Lvl	67.4	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	64.3	0	64.3	0	Snd Lvl	64.3	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25_05C_Evergreen: Duncann to HighInd</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	58.3	0	58.3	0	Snd Lvl	58.3	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	55.4	0	55.4	0	Snd Lvl	55.4	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25_06A_Highland: Huntington to Central												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	65.6	0	65.6	0	Snd Lvl	65.6	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	62.6	0	62.6	0	Snd Lvl	62.6	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>					
<b>C. Dugan</b>							<b>TNM 2.5</b>					
							<b>Calculated with TNM 2.5</b>					
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>			<b>Duarte Station SP Update</b>									
<b>RUN:</b>			<b>F25_06B_Highland: Central to Evergreen</b>									
<b>BARRIER DESIGN:</b>			<b>INPUT HEIGHTS</b>				<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	69.2	0	69.2	0	Snd Lvl	69.2	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	65.6	0	65.6	0	Snd Lvl	65.6	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>													
<b>C. Dugan</b>													
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update													
<b>RUN:</b> F25_06C_Highland: Evergreen to Bus Ctr													
<b>BARRIER DESIGN:</b> INPUT HEIGHTS													
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.													
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH													
<b>Receiver</b>													
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>				
									<b>Calculated Lden</b>	<b>Noise Reduction Calculated</b>		<b>Goal</b>	<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	68.6	0	68.6	0	Snd Lvl	68.6	0.0	0	0	0.0
100 Feet from Centerline	2	1	0.0	64.8	0	64.8	0	Snd Lvl	64.8	0.0	0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>										
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>								
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								

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>					
<b>C. Dugan</b>							<b>TNM 2.5</b>					
							<b>Calculated with TNM 2.5</b>					
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>										
<b>RUN:</b>		<b>F25_06D_Highland: Bus Ctr to Duarte</b>										
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	69.0	0	69.0	0	Snd Lvl	69.0	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	65.8	0	65.8	0	Snd Lvl	65.8	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25_07A_Huntington: BVista to Highland</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>		<b>Increase over existing</b>		<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>		
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>
							<b>Sub'l Inc</b>					<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	73.9	0	73.9	0	Snd Lvl	73.9	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	71.0	0	71.0	0	Snd Lvl	71.0	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25_07B_Huntington:Highland to MtOlive												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	74.5	0	74.5	0	Snd Lvl	74.5	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	71.6	0	71.6	0	Snd Lvl	71.6	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							



**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25_08A_Mountain: Central to Evergreen</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>		<b>Increase over existing</b>		<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>		
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>
							<b>Sub'l Inc</b>					<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>Goal</b>
50 Feet from Centerline	1	1	0.0	70.5	0	70.5	0	Snd Lvl	70.5	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	66.7	0	66.7	0	Snd Lvl	66.7	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25_08B_Mountain: Evergreen to Duarte</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	69.8	0	69.8	0	Snd Lvl	69.8	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	66.7	0	66.7	0	Snd Lvl	66.7	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>17 July 2019</b>												
<b>TNM 2.5</b>												
<b>Calculated with TNM 2.5</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25_09A_I210: Adjacent No Barrier</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
								<b>Calculated Lden</b>	<b>Noise Reduction Calculated</b>		<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
185 Feet from Centerline	1	1	0.0	71.6	66	71.6	10	Snd Lvl	71.6	0.0	8	-8.0
390 Feet from Centerline	2	1	0.0	74.7	66	74.7	10	Snd Lvl	74.7	0.0	8	-8.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
All Selected		2	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>													
<b>C. Dugan</b>													
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>													
<b>RUN: F25_09B_I210: Adjacent With Barrier</b>													
<b>BARRIER DESIGN: INPUT HEIGHTS</b>													
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>													
<b>Receiver</b>													
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>				
									<b>Calculated Lden</b>	<b>Noise Reduction Calculated</b>		<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
185 Feet from Centerline	1	1	0.0	67.3	66	67.3	10	Snd Lvl	67.3	0.0	8	-8.0	
390 Feet from Centerline	2	1	0.0	65.1	66	65.1	10	----	65.1	0.0	8	-8.0	
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>										
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>								
All Selected		2	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								

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>15 July 2019</b>												
<b>TNM 2.5</b>												
<b>Calculated with TNM 2.5</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25PP_01A_BuenaV: Hunting to Central</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	70.3	66	70.3	10	Snd Lvl	70.3	0.0	8	-8.0
100 Feet from Centerline	2	1	0.0	67.3	66	67.3	10	Snd Lvl	67.3	0.0	8	-8.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
All Selected		2	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25PP_01B_BuenaV: Central to 210WB												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	68.8	0	68.8	0	Snd Lvl	68.8	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	64.3	0	64.3	0	Snd Lvl	64.3	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25PP_01C_BuenaVist: 210WB to 210EB</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>		<b>Increase over existing</b>		<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>		
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>
							<b>Sub'l Inc</b>					<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>Goal</b>
												<b>dB</b>
50 Feet from Centerline	1	1	0.0	69.8	0	69.8	0	Snd Lvl	69.8	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	65.9	0	65.9	0	Snd Lvl	65.9	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25PP_01D_BuenaVist: 210EB to 3Ranch												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	70.2	0	70.2	0	Snd Lvl	70.2	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	66.9	0	66.9	0	Snd Lvl	66.9	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							



**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>					
<b>C. Dugan</b>							<b>TNM 2.5</b>					
							<b>Calculated with TNM 2.5</b>					
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>										
<b>RUN:</b>		<b>F25PP_01E_BuenaV: 3Ranch to Duarte</b>										
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	69.7	0	69.7	0	Snd Lvl	69.7	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	65.9	0	65.9	0	Snd Lvl	65.9	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25PP_02A_Central: E/O Mountain Ave												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	69.8	0	69.8	0	Snd Lvl	69.8	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	66.7	0	66.7	0	Snd Lvl	66.7	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25PP_02B_Central: W/O BuenaVista</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>	<b>Crit'n</b>	<b>Increase over existing</b>	<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>			
				<b>Calculated</b>		<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>
						<b>Sub'l Inc</b>						<b>minus</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	65.6	0	65.6	0	Snd Lvl	65.6	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	62.6	0	62.6	0	Snd Lvl	62.6	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25PP_02C_Central: BuenaVis to 210WB</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	68.6	0	68.6	0	Snd Lvl	68.6	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	65.0	0	65.0	0	Snd Lvl	65.0	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>						<b>15 July 2019</b>						
<b>C. Dugan</b>						<b>TNM 2.5</b>						
						<b>Calculated with TNM 2.5</b>						
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>										
<b>RUN:</b>		<b>F25PP_02D_Central: 210WB to Duncanno</b>										
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden Calculated</b>	<b>Crit'n</b>	<b>Increase over existing</b>		<b>With Barrier</b>				
						<b>Calculated</b>	<b>Crit'n</b>	<b>Type Impact</b>	<b>Calculated Lden</b>	<b>Noise Reduction</b>		
							<b>Sub'l Inc</b>			<b>Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	65.8	0	65.8	0	Snd Lvl	65.8	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	62.8	0	62.8	0	Snd Lvl	62.8	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25PP_02E_Central: Duncannon to Highla												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	67.9	0	67.9	0	Snd Lvl	67.9	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	64.9	0	64.9	0	Snd Lvl	64.9	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25PP_03A_Duarte: Mountain to BuenaV												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	71.2	0	71.2	0	Snd Lvl	71.2	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	68.3	0	68.3	0	Snd Lvl	68.3	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25PP_03B_Duarte: Buena Vista to Cinco												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	72.1	0	72.1	0	Snd Lvl	72.1	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	68.9	0	68.9	0	Snd Lvl	68.9	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							



**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25PP_03C_Duarte: Cinco Robles to Villa</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>		<b>Increase over existing</b>		<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>		
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>
							<b>Sub'l Inc</b>					<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	71.5	0	71.5	0	Snd Lvl	71.5	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	67.9	0	67.9	0	Snd Lvl	67.9	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25PP_03D_Duarte: Village to Highland</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>	<b>Crit'n</b>	<b>Increase over existing</b>	<b>Crit'n</b>	<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>	<b>Goal</b>	<b>Calculated</b>
				<b>Calculated</b>		<b>Calculated</b>	<b>Sub'l Inc</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	70.4	0	70.4	0	Snd Lvl	70.4	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	67.5	0	67.5	0	Snd Lvl	67.5	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25PP_04_Duncannon: Village to Highlan</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing</b>	<b>No Barrier</b>					<b>With Barrier</b>			
			<b>Lden</b>	<b>Lden</b>		<b>Increase over existing</b>		<b>Type</b>	<b>Calculated</b>	<b>Noise Reduction</b>		
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Lden</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated</b>
							<b>Sub'l Inc</b>					<b>minus</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	57.4	0	57.4	0	Snd Lvl	57.4	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	53.8	0	53.8	0	Snd Lvl	53.8	0.0	0	0.0
<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		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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>15 July 2019</b>												
<b>TNM 2.5</b>												
<b>Calculated with TNM 2.5</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25PP_05A_Evergreen: E/O Mountain</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	71.1	0	71.1	0	Snd Lvl	71.1	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	68.2	0	68.2	0	Snd Lvl	68.2	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

Duarte Station SP Update

<b>MIG</b>												
C. Dugan												
15 July 2019												
TNM 2.5												
Calculated with TNM 2.5												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25PP_05B_Evergreen: W/O BuenaVista												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	67.5	0	67.5	0	Snd Lvl	67.5	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	64.4	0	64.4	0	Snd Lvl	64.4	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>15 July 2019</b>												
<b>TNM 2.5</b>												
<b>Calculated with TNM 2.5</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25PP_05C_Evergreen: Duncann to Highl</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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 Lden</b>	<b>Noise Reduction Calculated Goal Calculated minus Goal</b>		
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	58.9	0	58.9	0	Snd Lvl	58.9	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	56.0	0	56.0	0	Snd Lvl	56.0	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

Duarte Station SP Update

<b>MIG</b>													
C. Dugan													
15 July 2019													
TNM 2.5													
Calculated with TNM 2.5													
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update													
<b>RUN:</b> F25PP_06A_Highland: Huntington to Centr													
<b>BARRIER DESIGN:</b> INPUT HEIGHTS													
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.													
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH													
<b>Receiver</b>													
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>				
									<b>Calculated Lden</b>	<b>Noise Reduction Calculated</b>		<b>Goal</b>	<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	66.3	0	66.3	0	Snd Lvl	66.3	0.0	0	0	0.0
100 Feet from Centerline	2	1	0.0	63.4	0	63.4	0	Snd Lvl	63.4	0.0	0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>										
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>								
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								

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>15 July 2019</b>												
<b>TNM 2.5</b>												
<b>Calculated with TNM 2.5</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25PP_06B_Highland: Central to Evergre</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	69.9	0	69.9	0	Snd Lvl	69.9	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	66.3	0	66.3	0	Snd Lvl	66.3	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							



**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>15 July 2019</b>												
<b>TNM 2.5</b>												
<b>Calculated with TNM 2.5</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25PP_06C_Highland: Evergreen to BsCtr</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	69.4	0	69.4	0	Snd Lvl	69.4	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	65.6	0	65.6	0	Snd Lvl	65.6	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25PP_06D_Highland: Bus Ctr to Duarte												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	69.7	0	69.7	0	Snd Lvl	69.7	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	66.5	0	66.5	0	Snd Lvl	66.5	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>15 July 2019</b>												
<b>TNM 2.5</b>												
<b>Calculated with TNM 2.5</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>												
<b>RUN: F25PP_07A_Huntington: BVista to Highlan</b>												
<b>BARRIER DESIGN: INPUT HEIGHTS</b>												
<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</b>												
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	73.9	0	73.9	0	Snd Lvl	73.9	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	71.0	0	71.0	0	Snd Lvl	71.0	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>												
<b>C. Dugan</b>												
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update												
<b>RUN:</b> F25PP_07B_Huntington:Highland to MtOliv												
<b>BARRIER DESIGN:</b> INPUT HEIGHTS												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH												
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>			
									<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	74.7	0	74.7	0	Snd Lvl	74.7	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	71.8	0	71.8	0	Snd Lvl	71.8	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>													
<b>C. Dugan</b>													
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT:</b> Duarte Station SP Update													
<b>RUN:</b> F25PP_08A_Mountain: Central to Evergre													
<b>BARRIER DESIGN:</b> INPUT HEIGHTS													
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.													
<b>ATMOSPHERICS:</b> 68 deg F, 50% RH													
<b>Receiver</b>													
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>				
									<b>Calculated Lden</b>	<b>Noise Reduction Calculated</b>		<b>Goal</b>	<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB	dB
50 Feet from Centerline	1	1	0.0	70.6	0	70.6	0	Snd Lvl	70.6	0.0	0	0	0.0
100 Feet from Centerline	2	1	0.0	66.7	0	66.7	0	Snd Lvl	66.7	0.0	0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>										
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>								
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								

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>							<b>15 July 2019</b>					
<b>C. Dugan</b>							<b>TNM 2.5</b>					
							<b>Calculated with TNM 2.5</b>					
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>										
<b>RUN:</b>		<b>F25PP_08B_Mountain: Evergreen to Duar</b>										
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden 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</b>			
								<b>Calculated Lden</b>	<b>Noise Reduction</b>		<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
50 Feet from Centerline	1	1	0.0	69.9	0	69.9	0	Snd Lvl	69.9	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	66.8	0	66.8	0	Snd Lvl	66.8	0.0	0	0.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>							
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							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>						<b>17 July 2019</b>							
<b>C. Dugan</b>						<b>TNM 2.5</b>							
						<b>Calculated with TNM 2.5</b>							
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT:</b>		<b>Duarte Station SP Update</b>											
<b>RUN:</b>		<b>F25PP_09A_I210: Adjacent No Barrier</b>											
<b>BARRIER DESIGN:</b>		<b>INPUT HEIGHTS</b>					<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</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 Lden</b>	<b>No Barrier Lden Calculated</b>	<b>Crit'n</b>	<b>Increase over existing</b>		<b>With Barrier</b>				
							<b>Calculated</b>	<b>Crit'n</b>	<b>Type Impact</b>	<b>Calculated Lden</b>	<b>Noise Reduction</b>		
								<b>Sub'l Inc</b>			<b>Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>
				<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
185 Feet from Centerline		1	1	0.0	71.6	66	71.6	10	Snd Lvl	71.6	0.0	8	-8.0
390 Feet from Centerline		2	1	0.0	74.7	66	74.7	10	Snd Lvl	74.7	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			2	0.0	0.0	0.0							
All Impacted			2	0.0	0.0	0.0							
All that meet NR Goal			0	0.0	0.0	0.0							

**RESULTS: SOUND LEVELS**

**Duarte Station SP Update**

<b>MIG</b>													
<b>C. Dugan</b>													
<b>17 July 2019</b>													
<b>TNM 2.5</b>													
<b>Calculated with TNM 2.5</b>													
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT: Duarte Station SP Update</b>													
<b>RUN: F25PP_09B_I210: Adjacent With Barrier</b>													
<b>BARRIER DESIGN: INPUT HEIGHTS</b>													
<b>Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.</b>													
<b>ATMOSPHERICS: 68 deg F, 50% RH</b>													
<b>Receiver</b>													
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing Lden</b>	<b>No Barrier Lden 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</b>				
									<b>Calculated Lden</b>	<b>Noise Reduction Calculated</b>		<b>Goal</b>	<b>Calculated minus Goal</b>
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
185 Feet from Centerline	1	1	0.0	67.3	66	67.3	10	Snd Lvl	67.3	0.0	8	-8.0	
390 Feet from Centerline	2	1	0.0	65.1	66	65.1	10	----	65.1	0.0	8	-8.0	
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>										
			<b>Min dB</b>	<b>Avg dB</b>	<b>Max dB</b>								
All Selected		2	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								