

RESULTS: SOUND LEVELS

Supplemental EIS US160/550

CDOT

its added 550 & CorRds, southern rec

19 May 2011

TNM 2.5

Calculated with TNM 2.5

RESULTS: SOUND LEVELS

PROJECT/CONTRACT:

Supplemental EIS US160/550

RUN:

Validation Existing Condition 110519

BARRIER DESIGN:

INPUT HEIGHTS

ATMOSPHERICS:

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.

Receiver Name	No.	#DUs	Existing		No Barrier		Increase over existing		Type	With Barrier		Noise Reduction		Goal	Calculated minus Goal
			LAeq1h	dB	LAeq1h	dB	Calculated	Crit'n		Calculated	Crit'n Sub'l Inc	Calculated	dB		
25	1	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
29	2	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
29a	3	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
30	4	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
34	5	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
37	6	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
38	7	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
C39	8	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
C40	9	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
41	10	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
42	11	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
43	12	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
52	13	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
55	14	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
56	15	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
C57	16	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
58	17	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
63	18	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
65	19	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
66	21	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
67	22	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
70	23	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	
71	24	1	0.0	66	0.0	66	0.0	10	inactive	0.0	0.0	0.0	8	0.0	

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Supplemental EIS US160/550

Dwelling Units	# DUs	Noise Reduction			# DUs	10	inactive	0.0	66	0.0	10	inactive	0.0	8	0.0
		Min	Avg	Max											
		dB	dB	dB											
115	108	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
107b	109	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
93a	110	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
93b	111	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
93c	112	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
81a	113	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
81b	114	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
C120b hotel	115	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
44a	116	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
1	118	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
1E	120	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
2E	121	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
3E	122	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
4E	123	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
5E	124	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
6E	125	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
7E	126	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
8E	128	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
9E	129	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
10E	131	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
11E	132	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
12E	134	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
13E	135	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
14E	136	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
15E	137	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
16E	138	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
17E	139	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
18E	140	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
19E	141	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
20E	143	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
21E	144	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
22E	145	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
24E	146	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	
23E	148	1	0.0	0.0	66	0.0	10	inactive	0.0	10	inactive	0.0	8	0.0	

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	137	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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Supplemental EIS US160/550

72		25	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
73		26	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
74		27	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
C75		28	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
C79		29	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
81		30	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
82		31	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
84		32	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
85		33	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
87		34	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
88		35	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
C91		36	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
92		37	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
C116		38	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
118		39	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
119		40	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
C120		41	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
C121		42	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
122		43	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
150		44	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
151		45	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
152		46	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
153		47	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
154		48	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
155		49	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
300		50	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
301		51	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
302		52	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
304		53	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
305		54	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
306		55	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
307		56	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
309		57	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
310		58	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
312		59	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
315		60	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
318		61	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
320		62	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
322		63	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0
323		64	1	0.0	0.0	66	0.0	10	inactive	0.0	8	0.0

RESULTS: SOUND LEVELS

Supplemental EIS US160/550

Dwelling Units	# DUs	Noise Reduction			# DUs	inoperative	0.0	0.0	66	0.0	10	inoperative	0.0	0.0	8	0.0	0.0
		Min	Avg	Max													
		dB	dB	dB													
115	108	1	0.0	0.0	1	0.0	0.0	66	0.0	10	inoperative	0.0	0.0	8	0.0	0.0	
107b	109	1	0.0	0.0	1	0.0	0.0	66	0.0	10	inoperative	0.0	0.0	8	0.0	0.0	
93a	110	1	0.0	0.0	1	0.0	0.0	66	0.0	10	inoperative	0.0	0.0	8	0.0	0.0	
93b	111	1	0.0	0.0	1	0.0	0.0	66	0.0	10	inoperative	0.0	0.0	8	0.0	0.0	
93c	112	1	0.0	0.0	1	0.0	0.0	66	0.0	10	inoperative	0.0	0.0	8	0.0	0.0	
81a	113	1	0.0	0.0	1	0.0	0.0	66	0.0	10	inoperative	0.0	0.0	8	0.0	0.0	
81b	114	1	0.0	0.0	1	0.0	0.0	66	0.0	10	inoperative	0.0	0.0	8	0.0	0.0	
C120b hotel	115	1	0.0	0.0	1	0.0	0.0	66	0.0	10	inoperative	0.0	0.0	8	0.0	0.0	
44a	116	1	0.0	0.0	1	0.0	0.0	66	0.0	10	inoperative	0.0	0.0	8	0.0	0.0	
1	118	1	0.0	0.0	1	0.0	0.0	66	0.0	10	inoperative	0.0	0.0	8	0.0	0.0	
1E	120	1	0.0	50.5	66	0.0	50.5	66	50.5	10	---	50.5	0.0	8	0.0	-8.0	
2E	121	1	0.0	46.7	66	0.0	46.7	66	46.7	10	---	46.7	0.0	8	0.0	-8.0	
3E	122	1	0.0	43.2	66	0.0	43.2	66	43.2	10	---	43.2	0.0	8	0.0	-8.0	
4E	123	1	0.0	42.9	66	0.0	42.9	66	42.9	10	---	42.9	0.0	8	0.0	-8.0	
5E	124	1	0.0	44.1	66	0.0	44.1	66	44.1	10	---	44.1	0.0	8	0.0	-8.0	
6E	125	1	0.0	50.4	66	0.0	50.4	66	50.4	10	---	50.4	0.0	8	0.0	-8.0	
7E	126	1	0.0	51.8	66	0.0	51.8	66	51.8	10	---	51.8	0.0	8	0.0	-8.0	
8E	128	1	0.0	41.9	66	0.0	41.9	66	41.9	10	---	41.9	0.0	8	0.0	-8.0	
9E	129	1	0.0	38.5	66	0.0	38.5	66	38.5	10	---	38.5	0.0	8	0.0	-8.0	
10E	131	1	0.0	44.8	66	0.0	44.8	66	44.8	10	---	44.8	0.0	8	0.0	-8.0	
11E	132	1	0.0	47.2	66	0.0	47.2	66	47.2	10	---	47.2	0.0	8	0.0	-8.0	
12E	134	1	0.0	36.3	66	0.0	36.3	66	36.3	10	---	36.3	0.0	8	0.0	-8.0	
13E	135	1	0.0	36.9	66	0.0	36.9	66	36.9	10	---	36.9	0.0	8	0.0	-8.0	
14E	136	1	0.0	36.3	66	0.0	36.3	66	36.3	10	---	36.3	0.0	8	0.0	-8.0	
15E	137	1	0.0	34.8	66	0.0	34.8	66	34.8	10	---	34.8	0.0	8	0.0	-8.0	
16E	138	1	0.0	34.8	66	0.0	34.8	66	34.8	10	---	34.8	0.0	8	0.0	-8.0	
17E	139	1	0.0	35.9	66	0.0	35.9	66	35.9	10	---	35.9	0.0	8	0.0	-8.0	
18E	140	1	0.0	36.7	66	0.0	36.7	66	36.7	10	---	36.7	0.0	8	0.0	-8.0	
19E	141	1	0.0	37.8	66	0.0	37.8	66	37.8	10	---	37.8	0.0	8	0.0	-8.0	
20E	143	1	0.0	44.6	66	0.0	44.6	66	44.6	10	---	44.6	0.0	8	0.0	-8.0	
21E	144	1	0.0	38.1	66	0.0	38.1	66	38.1	10	---	38.1	0.0	8	0.0	-8.0	
22E	145	1	0.0	38.9	66	0.0	38.9	66	38.9	10	---	38.9	0.0	8	0.0	-8.0	
24E	146	1	0.0	61.4	66	0.0	61.4	66	61.4	10	---	61.4	0.0	8	0.0	-8.0	
23E	148	1	0.0	53.8	66	0.0	53.8	66	53.8	10	---	53.8	0.0	8	0.0	-8.0	

Dwelling Units

	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	137	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

RESULTS: SOUND LEVELS

Supplemental EIS US160/550

CDOT
jis added 550 & Cor'ds, southern rec

110519 version of south rd's

19 May 2011
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS

Supplemental EIS US160/550

Validation Existing Condition

INPUT HEIGHTS

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.

Receiver Name	No.	#DUs	Existing		No Barrier		Increase over existing		Type Impact	With Barrier		Noise Reduction		Calculated minus Goal
			LAeq1h	Crit'n	LAeq1h	Crit'n	Calculated	Sub'l Inc		Calculated	dB	Calculated	Goal	
25	1	1	0.0	46.8	66	46.8	10	46.8	0.0	8	-8.0			
29	2	1	0.0	53.3	66	53.3	10	53.3	0.0	8	-8.0			
29a	3	1	0.0	59.0	66	59.0	10	59.0	0.0	8	-8.0			
30	4	1	0.0	53.9	66	53.9	10	53.9	0.0	8	-8.0			
34	5	1	0.0	54.8	66	54.8	10	54.8	0.0	8	-8.0			
37	6	1	0.0	53.7	66	53.7	10	53.7	0.0	8	-8.0			
38	7	1	0.0	54.2	66	54.2	10	54.2	0.0	8	-8.0			
C39	8	1	0.0	60.3	66	60.3	10	60.3	0.0	8	-8.0			
C40	9	1	0.0	56.0	66	56.0	10	56.0	0.0	8	-8.0			
41	10	1	0.0	53.1	66	53.1	10	53.1	0.0	8	-8.0			
42	11	1	0.0	51.9	66	51.9	10	51.9	0.0	8	-8.0			
43	12	1	0.0	56.3	66	56.3	10	56.3	0.0	8	-8.0			
52	13	1	0.0	55.7	66	55.7	10	55.7	0.0	8	-8.0			
55	14	1	0.0	51.9	66	51.9	10	51.9	0.0	8	-8.0			
56	15	1	0.0	50.2	66	50.2	10	50.2	0.0	8	-8.0			
C57	16	1	0.0	56.0	66	56.0	10	56.0	0.0	8	-8.0			
58	17	1	0.0	53.1	66	53.1	10	53.1	0.0	8	-8.0			
63	18	1	0.0	51.2	66	51.2	10	51.2	0.0	8	-8.0			
65	19	1	0.0	50.6	66	50.6	10	50.6	0.0	8	-8.0			
66	21	1	0.0	57.3	66	57.3	10	57.3	0.0	8	-8.0			
67	22	1	0.0	60.1	66	60.1	10	60.1	0.0	8	-8.0			
70	23	1	0.0	54.2	66	54.2	10	54.2	0.0	8	-8.0			
71	24	1	0.0	50.9	66	50.9	10	50.9	0.0	8	-8.0			

RESULTS: SOUND LEVELS

Supplemental EIS US160/550

72	25	1	0.0	56.7	66	56.7	10	---	56.7	0.0	8	-8.0
73	26	1	0.0	49.9	66	49.9	10	---	49.9	0.0	8	-8.0
74	27	1	0.0	0.0	66	0.0	10	invalid	0.0	0.0	8	0.0
C75	28	1	0.0	0.0	66	0.0	10	invalid	0.0	0.0	8	0.0
C79	29	1	0.0	0.0	66	0.0	10	invalid	0.0	0.0	8	0.0
81	30	1	0.0	0.0	66	0.0	10	invalid	0.0	0.0	8	0.0
82	31	1	0.0	0.0	66	0.0	10	invalid	0.0	0.0	8	0.0
84	32	1	0.0	0.0	66	0.0	10	invalid	0.0	0.0	8	0.0
85	33	1	0.0	0.0	66	0.0	10	invalid	0.0	0.0	8	0.0
87	34	1	0.0	0.0	66	0.0	10	invalid	0.0	0.0	8	0.0
88	35	1	0.0	0.0	66	0.0	10	invalid	0.0	0.0	8	0.0
C91	36	1	0.0	0.0	66	0.0	10	invalid	0.0	0.0	8	0.0
92	37	1	0.0	0.0	66	0.0	10	invalid	0.0	0.0	8	0.0
C116	38	1	0.0	0.0	66	0.0	10	invalid	0.0	0.0	8	0.0
118	39	1	0.0	0.0	66	0.0	10	invalid	0.0	0.0	8	0.0
119	40	1	0.0	0.0	66	0.0	10	invalid	0.0	0.0	8	0.0
C120	41	1	0.0	55.5	66	55.5	10	---	55.5	0.0	8	-8.0
C121	42	1	0.0	49.3	66	49.3	10	---	49.3	0.0	8	-8.0
122	43	1	0.0	47.3	66	47.3	10	---	47.3	0.0	8	-8.0
150	44	1	0.0	52.2	66	52.2	10	---	52.2	0.0	8	-8.0
151	45	1	0.0	50.4	66	50.4	10	---	50.4	0.0	8	-8.0
152	46	1	0.0	55.0	66	55.0	10	---	55.0	0.0	8	-8.0
153	47	1	0.0	30.7	66	30.7	10	---	60.7	0.0	8	-8.0
154	48	1	0.0	48.2	66	48.2	10	---	48.2	0.0	8	-8.0
155	49	1	0.0	56.8	66	56.8	10	---	56.8	0.0	8	-8.0
300	50	1	0.0	40.7	66	40.7	10	---	40.7	0.0	8	-8.0
301	51	1	0.0	43.5	66	43.5	10	---	43.5	0.0	8	-8.0
302	52	1	0.0	42.9	66	42.9	10	---	42.9	0.0	8	-8.0
304	53	1	0.0	42.2	66	42.2	10	---	42.2	0.0	8	-8.0
305	54	1	0.0	42.4	66	42.4	10	---	42.4	0.0	8	-8.0
306	55	1	0.0	42.3	66	42.3	10	---	42.3	0.0	8	-8.0
307	56	1	0.0	42.4	66	42.4	10	---	42.4	0.0	8	-8.0
309	57	1	0.0	44.9	66	44.9	10	---	44.9	0.0	8	-8.0
310	58	1	0.0	46.0	66	46.0	10	---	46.0	0.0	8	-8.0
312	59	1	0.0	46.7	66	46.7	10	---	46.7	0.0	8	-8.0
315	60	1	0.0	47.7	66	47.7	10	---	47.7	0.0	8	-8.0
318	61	1	0.0	55.0	66	55.0	10	---	55.0	0.0	8	-8.0
320	62	1	0.0	54.6	66	54.6	10	---	54.6	0.0	8	-8.0
322	63	1	0.0	53.9	66	53.9	10	---	53.9	0.0	8	-8.0
323	64	1	0.0	58.1	66	58.1	10	---	58.1	0.0	8	-8.0

