APPENDICES

APPENDIX A
ROADWAY NOISE CALCULATIONS

Kimley-Horn and Associates, Inc.
Fiedler

7 January 2008
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Calibration

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

Roadway Name	Width	Points Name	No.	Coordinates (pavement) X	Y	Z	Flow Control Control Device	Speed Constraint	Percent Vehicles Affected	Segment Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
North Bound	12.0	point20	20	5,590.5	8,531.6	834.00				Average	
		point19	19	5,414.1	8,745.9	836.00				Average	
		point18	18	5,304.7	8,879.4	837.00				Average	
		point17	17	5,209.8	8,993.2	840.00				Average	
		point16	16	5,123.9	9,097.5	845.00				Average	
		point15	15	5,060.2	9,174.1	850.00				Average	
		point14	14	4,994.0	9,254.3	855.00				Average	
		point13	13	4,903.1	9,364.3	860.00				Average	
		point12	12	4,800.0	9,488.7	865.00				Average	
		point11	11	4,687.9	9,623.9	870.00				Average	
		point10	10	4,569.2	9,767.3	875.00				Average	
		point9	9	4,438.2	9,925.0	880.00				Average	
		point8	8	4,244.3	10,161.5	885.00				Average	
		point7	7	3,848.3	10,641.1	886.00				Average	
		point6	6	3,612.2	10,926.5	885.00				Average	
		point5	5	3,417.1	11,163.2	885.00				Average	
		point4	4	3,308.1	11,295.5	890.00				Average	
		point3	3	3,163.7	11,470.2	895.00				Average	
		point2	2	2,970.6	11,703.8	898.00				Average	
		point1	1	1,106.3	13,926.0	898.00					
South Bound	12.0	point21	21	1,097.5	13,917.8	898.00				Average	
		point22	22	2,961.8	11,695.7	898.00				Average	
		point23	23	3,154.9	11,462.0	895.00				Average	
		point24	24	3,299.3	11,287.3	890.00				Average	
		point25	25	3,408.3	11,155.0	885.00				Average	

	point26	26	3,603.4	10,918.3	885.00	Average
	point27	27	3,839.5	10,632.9	886.00	Average
	point28	28	4,235.5	10,153.4	885.00	Average
	point29	29	4,429.4	9,916.8	880.00	Average
	point30	30	4,560.4	9,759.1	875.00	Average
	point31	31	4,679.1	9,615.7	870.00	Average
	point32	32	4,791.3	9,480.6	865.00	Average
	point33	33	4,894.3	9,356.1	860.00	Average
	point34	34	4,985.2	9,246.2	855.00	Average
	point35	35	5,051.4	9,166.0	850.00	Average
	point36	36	5,115.1	9,089.3	845.00	Average
	point37	37	5,201.1	8,985.0	840.00	Average
	point38	38	5,295.9	8,871.2	837.00	Average
	point39	39	5,405.3	8,737.7	836.00	Average
	point40	40	5,581.7	8,523.5	834.00	

Kimley-Horn and Associates, Inc.
Fiedler

7 January 2008
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Calibration

Roadway	Points		Segment											
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles			
			V	S	V	S	V	S	V	S	V	S		
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph		
North Bound	point20	20	161	60	14	60	7	60	0	0	0	0		
	point19	19	161	60	14	60	7	60	0	0	0	0		
	point18	18	161	60	14	60	7	60	0	0	0	0		
	point17	17	161	60	14	60	7	60	0	0	0	0		
	point16	16	161	60	14	60	7	60	0	0	0	0		
	point15	15	161	60	14	60	7	60	0	0	0	0		
	point14	14	161	60	14	60	7	60	0	0	0	0		
	point13	13	161	60	14	60	7	60	0	0	0	0		
	point12	12	161	60	14	60	7	60	0	0	0	0		
	point11	11	161	60	14	60	7	60	0	0	0	0		
	point10	10	161	60	14	60	7	60	0	0	0	0		
	point9	9	161	60	14	60	7	60	0	0	0	0		
	point8	8	161	60	14	60	7	60	0	0	0	0		
	point7	7	161	60	14	60	7	60	0	0	0	0		
	point6	6	161	60	14	60	7	60	0	0	0	0		
	point5	5	161	60	14	60	7	60	0	0	0	0		
	point4	4	161	60	14	60	7	60	0	0	0	0		
	point3	3	161	60	14	60	7	60	0	0	0	0		
	point2	2	161	60	14	60	7	60	0	0	0	0		
	point1	1												
South Bound	point21	21	161	60	14	60	7	60	0	0	0	0		
	point22	22	161	60	14	60	7	60	0	0	0	0		

	point23	23	161	60	14	60	7	60	0	0	0	0
	point24	24	161	60	14	60	7	60	0	0	0	0
	point25	25	161	60	14	60	7	60	0	0	0	0
	point26	26	161	60	14	60	7	60	0	0	0	0
	point27	27	161	60	14	60	7	60	0	0	0	0
	point28	28	161	60	14	60	7	60	0	0	0	0
	point29	29	161	60	14	60	7	60	0	0	0	0
	point30	30	161	60	14	60	7	60	0	0	0	0
	point31	31	161	60	14	60	7	60	0	0	0	0
	point32	32	161	60	14	60	7	60	0	0	0	0
	point33	33	161	60	14	60	7	60	0	0	0	0
	point34	34	161	60	14	60	7	60	0	0	0	0
	point35	35	161	60	14	60	7	60	0	0	0	0
	point36	36	161	60	14	60	7	60	0	0	0	0
	point37	37	161	60	14	60	7	60	0	0	0	0
	point38	38	161	60	14	60	7	60	0	0	0	0
	point39	39	161	60	14	60	7	60	0	0	0	0
	point40	40										

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7 January 2008
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Calibration

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Receiver1	1	1	3,547.6	10,958.0	886.00	4.92	0.00	66	10.0	8.0	Y

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7 January 2008
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Calibration
BARRIER DESIGN: INPUT HEIGHTS

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

ATMOSPHERICS: 68 deg F, 50% RH

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Receiver1	1	1	0.0	71.6	66	71.6	10	Snd Lvl	71.6	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min dB	Avg dB	Max dB
All Selected	1	0.0	0.0	0.0
All Impacted	1	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

Kimley-Horn and Associates, Inc.
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7 January 2008
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Future Graded

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

Roadway Name	Width	Points Name	No.	Coordinates (pavement) X	Y	Z	Flow Control Control Device	Speed Constraint	Percent Vehicles Affected	Segment Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
SR-76 NB	12.0	point20	20	5,590.5	8,531.6	834.00				Average	
		point19	19	5,414.1	8,745.9	836.00				Average	
		point18	18	5,304.7	8,879.4	837.00				Average	
		point17	17	5,209.8	8,993.2	840.00				Average	
		point16	16	5,123.9	9,097.5	845.00				Average	
		point15	15	5,060.2	9,174.1	850.00				Average	
		point14	14	4,994.0	9,254.3	855.00				Average	
		point13	13	4,903.1	9,364.3	860.00				Average	
		point12	12	4,800.0	9,488.7	865.00				Average	
		point11	11	4,687.9	9,623.9	870.00				Average	
		point10	10	4,569.2	9,767.3	875.00				Average	
		point9	9	4,438.2	9,925.0	880.00				Average	
		point8	8	4,244.3	10,161.5	885.00				Average	
		point7	7	3,848.3	10,641.1	886.00				Average	
		point6	6	3,612.2	10,926.5	885.00				Average	
		point5	5	3,417.1	11,163.2	885.00				Average	
		point4	4	3,308.1	11,295.5	890.00				Average	
		point3	3	3,163.7	11,470.2	895.00				Average	
		point2	2	2,970.6	11,703.8	898.00				Average	
		point1	1	1,106.3	13,926.0	898.00					
SR-76 SB	12.0	point21	21	1,097.5	13,917.8	898.00				Average	
		point22	22	2,961.8	11,695.7	898.00				Average	
		point23	23	3,154.9	11,462.0	895.00				Average	
		point24	24	3,299.3	11,287.3	890.00				Average	
		point25	25	3,408.3	11,155.0	885.00				Average	

point26	26	3,603.4	10,918.3	885.00	Average
point27	27	3,839.5	10,632.9	886.00	Average
point28	28	4,235.5	10,153.4	885.00	Average
point29	29	4,429.4	9,916.8	880.00	Average
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point33	33	4,894.3	9,356.1	860.00	Average
point34	34	4,985.2	9,246.2	855.00	Average
point35	35	5,051.4	9,166.0	850.00	Average
point36	36	5,115.1	9,089.3	845.00	Average
point37	37	5,201.1	8,985.0	840.00	Average
point38	38	5,295.9	8,871.2	837.00	Average
point39	39	5,405.3	8,737.7	836.00	Average
point40	40	5,581.7	8,523.5	834.00	

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INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Future Graded

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
SR-76 NB	point20	20	660	60	60	60	30	60	0	0	0	0
	point19	19	660	60	60	60	30	60	0	0	0	0
	point18	18	660	60	60	60	30	60	0	0	0	0
	point17	17	660	60	60	60	30	60	0	0	0	0
	point16	16	660	60	60	60	30	60	0	0	0	0
	point15	15	660	60	60	60	30	60	0	0	0	0
	point14	14	660	60	60	60	30	60	0	0	0	0
	point13	13	660	60	60	60	30	60	0	0	0	0
	point12	12	660	60	60	60	30	60	0	0	0	0
	point11	11	660	60	60	60	30	60	0	0	0	0
	point10	10	660	60	60	60	30	60	0	0	0	0
	point9	9	660	60	60	60	30	60	0	0	0	0
	point8	8	660	60	60	60	30	60	0	0	0	0
	point7	7	660	60	60	60	30	60	0	0	0	0
	point6	6	660	60	60	60	30	60	0	0	0	0
	point5	5	660	60	60	60	30	60	0	0	0	0
	point4	4	660	60	60	60	30	60	0	0	0	0
	point3	3	660	60	60	60	30	60	0	0	0	0
	point2	2	660	60	60	60	30	60	0	0	0	0
	point1	1										
SR-76 SB	point21	21	660	60	60	60	30	60	0	0	0	0
	point22	22	660	60	60	60	30	60	0	0	0	0

	point23	23	660	60	60	60	30	60	0	0	0	0
	point24	24	660	60	60	60	30	60	0	0	0	0
	point25	25	660	60	60	60	30	60	0	0	0	0
	point26	26	660	60	60	60	30	60	0	0	0	0
	point27	27	660	60	60	60	30	60	0	0	0	0
	point28	28	660	60	60	60	30	60	0	0	0	0
	point29	29	660	60	60	60	30	60	0	0	0	0
	point30	30	660	60	60	60	30	60	0	0	0	0
	point31	31	660	60	60	60	30	60	0	0	0	0
	point32	32	660	60	60	60	30	60	0	0	0	0
	point33	33	660	60	60	60	30	60	0	0	0	0
	point34	34	660	60	60	60	30	60	0	0	0	0
	point35	35	660	60	60	60	30	60	0	0	0	0
	point36	36	660	60	60	60	30	60	0	0	0	0
	point37	37	660	60	60	60	30	60	0	0	0	0
	point38	38	660	60	60	60	30	60	0	0	0	0
	point39	39	660	60	60	60	30	60	0	0	0	0
	point40	40										

Kimley-Horn and Associates, Inc.
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7 January 2008
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Future Graded

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Receiver178	178	1	3,111.5	11,192.0	877.00	4.92	0.00	66	10.0	8.0	Y
Receiver179	179	1	3,727.2	10,514.7	873.00	4.92	0.00	66	10.0	8.0	Y
Receiver187	187	1	3,683.4	10,588.7	872.00	4.92	0.00	66	10.0	8.0	Y
Receiver194	194	1	3,584.8	10,685.9	874.00	4.92	0.00	66	10.0	8.0	Y
Receiver202	202	1	3,494.4	10,826.1	878.00	4.92	0.00	66	10.0	8.0	Y
Receiver207	207	1	3,385.7	10,933.1	872.00	4.92	0.00	66	10.0	8.0	Y
Receiver213	213	1	3,292.4	11,028.3	872.00	4.92	0.00	66	10.0	8.0	Y
Receiver220	220	1	3,228.4	11,105.2	875.00	4.92	0.00	66	10.0	8.0	Y

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7 January 2008
TNM 2.5

INPUT: TERRAIN LINES
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Future Graded

Terrain Line Name	Points No.	Coordinates (ground) X ft	Y ft	Z ft
ROW berm	1	4,064.4	10,334.0	886.16
	2	4,016.0	10,383.1	887.29
	3	3,918.1	10,524.2	886.59
	4	3,823.7	10,616.1	885.75
	5	3,749.1	10,723.2	885.11
	6	3,721.3	10,755.7	884.82
	7	3,673.0	10,797.6	885.65
	8	3,596.9	10,903.5	886.00
	9	3,547.0	10,962.4	886.00
	10	3,503.2	11,006.7	884.89
	11	3,478.2	11,050.1	884.21
	12	3,417.5	11,123.5	884.17
	13	3,392.9	11,154.8	885.00
	14	3,345.9	11,205.3	887.00
	15	3,298.6	11,250.8	888.51
	16	3,215.4	11,355.3	891.00
	17	3,174.4	11,408.5	892.00
	18	3,133.0	11,464.7	895.68
	19	3,091.2	11,506.6	895.00
	20	3,040.8	11,565.8	896.64
	21	2,990.6	11,631.6	897.79
	22	2,939.8	11,694.9	897.79
	23	2,916.9	11,723.0	898.00

Kimley-Horn and Associates, Inc.
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7 January 2008
TNM 2.5

INPUT: TREE ZONES
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Future Graded

Tree Zone Name	Average Height ft	Points No.	Coordinates (ground) X ft	Y ft	Z ft
Orange Trees W of Trail	15.00	40	3,205.3	11,274.6	884.00
		41	3,243.2	11,233.8	884.00
		42	3,256.1	11,217.5	883.00
		43	3,288.8	11,177.3	881.00
		44	3,325.9	11,135.2	880.00
		45	3,339.4	11,115.3	879.00
		46	3,350.2	11,099.9	878.00
		47	3,359.6	11,086.2	877.00
		48	3,379.2	11,057.2	876.00
		49	3,396.1	11,032.4	875.00
		50	3,404.5	11,026.0	876.00
		51	3,418.8	11,014.3	877.00
		52	3,439.7	10,998.5	878.00
		53	3,449.7	10,991.2	879.00
		54	3,460.7	10,983.5	880.00
		55	3,469.8	10,976.6	881.00
		56	3,484.8	10,960.1	882.00
		57	3,550.3	10,878.9	883.00
		58	3,588.8	10,834.5	883.00
		59	3,622.5	10,791.5	882.00
		60	3,634.6	10,771.7	881.00
		61	3,641.3	10,756.8	880.00
		62	3,649.5	10,738.6	879.00

	63	3,657.1	10,723.9	878.00
	64	3,663.0	10,710.9	877.00
	65	3,669.1	10,696.2	876.00
	66	3,678.5	10,680.0	875.00
	67	3,688.4	10,670.6	875.00
	68	3,698.7	10,660.5	876.00
	69	3,731.1	10,627.6	877.00
	70	3,752.3	10,609.5	878.00
	71	3,773.8	10,590.0	879.00
	72	3,783.8	10,581.9	880.00
	73	3,796.4	10,574.0	882.00
	74	3,797.8	10,568.2	881.00
	75	3,790.3	10,562.0	880.00
	76	3,782.7	10,555.5	879.00
	77	3,775.1	10,548.5	878.00
	78	3,767.0	10,543.0	877.00
	79	3,756.1	10,533.8	876.00
	80	3,746.2	10,525.7	875.00
	81	3,736.5	10,517.6	874.00
	82	3,726.4	10,509.4	873.00
	83	3,717.7	10,502.2	872.00
	84	3,708.7	10,494.9	871.00
	85	3,702.4	10,503.5	870.53
	86	3,708.1	10,529.1	871.30
	87	3,705.5	10,554.8	872.07
	88	3,671.7	10,601.1	871.36
	89	3,583.3	10,656.5	871.74
	90	3,555.2	10,695.2	873.34
	91	3,513.1	10,767.3	876.04
	92	3,490.9	10,799.8	876.73
	93	3,470.1	10,826.8	876.54
	94	3,428.7	10,889.8	875.69
	95	3,384.3	10,933.2	871.73
	96	3,332.1	11,016.1	871.62

97	3,276.8	11,083.6	875.25
98	3,221.5	11,145.6	877.42
99	3,184.9	11,193.7	879.09
100	3,158.7	11,209.1	879.00
101	3,138.5	11,224.2	880.00
102	3,155.8	11,237.0	881.00
103	3,170.3	11,248.2	882.00
104	3,186.0	11,260.0	883.00
105	3,199.9	11,270.4	884.00

Kimley-Horn and Associates, Inc.
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7 January 2008
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Future Graded
BARRIER DESIGN: INPUT HEIGHTS

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

ATMOSPHERICS: 68 deg F, 50% RH

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Receiver178	178	1	0.0	60.1	66	60.1	10	----	60.1	0.0	8	-8.0
Receiver179	179	1	0.0	60.1	66	60.1	10	----	60.1	0.0	8	-8.0
Receiver187	187	1	0.0	60.3	66	60.3	10	----	60.3	0.0	8	-8.0
Receiver194	194	1	0.0	59.7	66	59.7	10	----	59.7	0.0	8	-8.0
Receiver202	202	1	0.0	60.2	66	60.2	10	----	60.2	0.0	8	-8.0
Receiver207	207	1	0.0	60.0	66	60.0	10	----	60.0	0.0	8	-8.0
Receiver213	213	1	0.0	60.4	66	60.4	10	----	60.4	0.0	8	-8.0
Receiver220	220	1	0.0	60.7	66	60.7	10	----	60.7	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	8	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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7 January 2008
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Future Graded

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

Roadway Name	Width	Points Name	No.	Coordinates (pavement) X	Y	Z	Flow Control Control Device	Speed Constraint	Percent Vehicles Affected	Segment Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
SR-76 NB	12.0	point20	20	5,590.5	8,531.6	834.00				Average	
		point19	19	5,414.1	8,745.9	836.00				Average	
		point18	18	5,304.7	8,879.4	837.00				Average	
		point17	17	5,209.8	8,993.2	840.00				Average	
		point16	16	5,123.9	9,097.5	845.00				Average	
		point15	15	5,060.2	9,174.1	850.00				Average	
		point14	14	4,994.0	9,254.3	855.00				Average	
		point13	13	4,903.1	9,364.3	860.00				Average	
		point12	12	4,800.0	9,488.7	865.00				Average	
		point11	11	4,687.9	9,623.9	870.00				Average	
		point10	10	4,569.2	9,767.3	875.00				Average	
		point9	9	4,438.2	9,925.0	880.00				Average	
		point8	8	4,244.3	10,161.5	885.00				Average	
		point7	7	3,848.3	10,641.1	886.00				Average	
		point6	6	3,612.2	10,926.5	885.00				Average	
		point5	5	3,417.1	11,163.2	885.00				Average	
		point4	4	3,308.1	11,295.5	890.00				Average	
		point3	3	3,163.7	11,470.2	895.00				Average	
		point2	2	2,970.6	11,703.8	898.00				Average	
		point1	1	1,106.3	13,926.0	898.00					
SR-76 SB	12.0	point21	21	1,097.5	13,917.8	898.00				Average	
		point22	22	2,961.8	11,695.7	898.00				Average	
		point23	23	3,154.9	11,462.0	895.00				Average	
		point24	24	3,299.3	11,287.3	890.00				Average	
		point25	25	3,408.3	11,155.0	885.00				Average	

	point26	26	3,603.4	10,918.3	885.00	Average
	point27	27	3,839.5	10,632.9	886.00	Average
	point28	28	4,235.5	10,153.4	885.00	Average
	point29	29	4,429.4	9,916.8	880.00	Average
	point30	30	4,560.4	9,759.1	875.00	Average
	point31	31	4,679.1	9,615.7	870.00	Average
	point32	32	4,791.3	9,480.6	865.00	Average
	point33	33	4,894.3	9,356.1	860.00	Average
	point34	34	4,985.2	9,246.2	855.00	Average
	point35	35	5,051.4	9,166.0	850.00	Average
	point36	36	5,115.1	9,089.3	845.00	Average
	point37	37	5,201.1	8,985.0	840.00	Average
	point38	38	5,295.9	8,871.2	837.00	Average
	point39	39	5,405.3	8,737.7	836.00	Average
	point40	40	5,581.7	8,523.5	834.00	

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INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Future Graded

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
SR-76 NB	point20	20	660	60	60	60	30	60	0	0	0	0
	point19	19	660	60	60	60	30	60	0	0	0	0
	point18	18	660	60	60	60	30	60	0	0	0	0
	point17	17	660	60	60	60	30	60	0	0	0	0
	point16	16	660	60	60	60	30	60	0	0	0	0
	point15	15	660	60	60	60	30	60	0	0	0	0
	point14	14	660	60	60	60	30	60	0	0	0	0
	point13	13	660	60	60	60	30	60	0	0	0	0
	point12	12	660	60	60	60	30	60	0	0	0	0
	point11	11	660	60	60	60	30	60	0	0	0	0
	point10	10	660	60	60	60	30	60	0	0	0	0
	point9	9	660	60	60	60	30	60	0	0	0	0
	point8	8	660	60	60	60	30	60	0	0	0	0
	point7	7	660	60	60	60	30	60	0	0	0	0
	point6	6	660	60	60	60	30	60	0	0	0	0
	point5	5	660	60	60	60	30	60	0	0	0	0
	point4	4	660	60	60	60	30	60	0	0	0	0
	point3	3	660	60	60	60	30	60	0	0	0	0
	point2	2	660	60	60	60	30	60	0	0	0	0
	point1	1										
SR-76 SB	point21	21	660	60	60	60	30	60	0	0	0	0
	point22	22	660	60	60	60	30	60	0	0	0	0

	point23	23	660	60	60	60	30	60	0	0	0	0
	point24	24	660	60	60	60	30	60	0	0	0	0
	point25	25	660	60	60	60	30	60	0	0	0	0
	point26	26	660	60	60	60	30	60	0	0	0	0
	point27	27	660	60	60	60	30	60	0	0	0	0
	point28	28	660	60	60	60	30	60	0	0	0	0
	point29	29	660	60	60	60	30	60	0	0	0	0
	point30	30	660	60	60	60	30	60	0	0	0	0
	point31	31	660	60	60	60	30	60	0	0	0	0
	point32	32	660	60	60	60	30	60	0	0	0	0
	point33	33	660	60	60	60	30	60	0	0	0	0
	point34	34	660	60	60	60	30	60	0	0	0	0
	point35	35	660	60	60	60	30	60	0	0	0	0
	point36	36	660	60	60	60	30	60	0	0	0	0
	point37	37	660	60	60	60	30	60	0	0	0	0
	point38	38	660	60	60	60	30	60	0	0	0	0
	point39	39	660	60	60	60	30	60	0	0	0	0
	point40	40										

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7 January 2008
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Future Graded

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Lot 1 A	138	1	3,180.1	11,172.3	873.00	4.92	0.00	66	10.0	8.0	Y
Lot 1 B	139	1	3,158.1	11,187.0	873.00	4.92	0.00	66	10.0	8.0	Y
Lot 1 C	140	1	3,110.3	11,164.0	873.00	4.92	0.00	66	10.0	8.0	Y
Lot 1 D	141	1	3,136.3	11,139.8	873.00	4.92	0.00	66	10.0	8.0	Y
Lot 1 E	142	1	3,073.0	11,134.5	873.00	4.92	0.00	66	10.0	8.0	Y
Lot 1 F	143	1	3,167.4	11,175.7	873.00	4.92	0.00	66	10.0	8.0	Y
Lot 1 G	144	1	3,141.7	11,177.6	873.00	4.92	0.00	66	10.0	8.0	Y
Lot 1 H	145	1	3,153.5	11,165.8	873.00	4.92	0.00	66	10.0	8.0	Y
Lot 1 I	146	1	3,178.2	11,168.5	873.00	4.92	0.00	66	10.0	8.0	Y
Lot 2 A	147	1	3,255.4	11,070.2	868.50	4.92	0.00	66	10.0	8.0	Y
Lot 2 B	148	1	3,279.1	11,051.2	868.50	4.92	0.00	66	10.0	8.0	Y
Lot 2 C	149	1	3,179.8	11,028.8	868.50	4.92	0.00	66	10.0	8.0	Y
Lot 2 D	150	1	3,191.6	10,984.0	868.50	4.92	0.00	66	10.0	8.0	Y
Lot 2 E	151	1	3,160.2	10,942.7	868.50	4.92	0.00	66	10.0	8.0	Y
Lot 2 F	152	1	3,229.8	10,972.2	868.50	4.92	0.00	66	10.0	8.0	Y
Lot 2 G	153	1	3,268.6	11,059.6	868.50	4.92	0.00	66	10.0	8.0	Y
Lot 3 A	154	1	3,385.9	10,908.2	868.70	4.92	0.00	66	10.0	8.0	Y
Lot 3 B	155	1	3,359.1	10,929.2	868.70	4.92	0.00	66	10.0	8.0	Y
Lot 3 C	156	1	3,317.1	10,900.7	868.70	4.92	0.00	66	10.0	8.0	Y
Lot 3 D	157	1	3,296.3	10,851.2	868.70	4.92	0.00	66	10.0	8.0	Y
Lot 3 E	158	1	3,277.8	10,802.8	868.70	4.92	0.00	66	10.0	8.0	Y
Lot 3 F	159	1	3,314.8	10,830.7	868.70	4.92	0.00	66	10.0	8.0	Y

Lot 4 A	160	1	3,492.1	10,763.5	870.00	4.92	0.00	66	10.0	8.0	Y
Lot 4 B	161	1	3,499.8	10,746.1	870.00	4.92	0.00	66	10.0	8.0	Y
Lot 4 C	162	1	3,458.0	10,693.2	870.00	4.92	0.00	66	10.0	8.0	Y
Lot 4 D	163	1	3,420.2	10,686.5	870.00	4.92	0.00	66	10.0	8.0	Y
Lot 4 E	164	1	3,380.9	10,761.2	870.00	4.92	0.00	66	10.0	8.0	Y
Lot 5 A	165	1	3,377.1	10,591.4	867.50	4.92	0.00	66	10.0	8.0	Y
Lot 5 B	166	1	3,457.6	10,601.6	867.50	4.92	0.00	66	10.0	8.0	Y
Lot 5 C	167	1	3,487.9	10,621.6	867.50	4.92	0.00	66	10.0	8.0	Y
Lot 5 D	168	1	3,521.3	10,578.4	867.50	4.92	0.00	66	10.0	8.0	Y
Lot 5 E	169	1	3,499.3	10,560.3	867.50	4.92	0.00	66	10.0	8.0	Y
Lot 5 F	170	1	3,434.4	10,572.5	867.50	4.92	0.00	66	10.0	8.0	Y
Lot 6 A	171	1	3,553.3	10,489.2	864.70	4.92	0.00	66	10.0	8.0	Y
Lot 6 B	172	1	3,597.1	10,521.8	864.70	4.92	0.00	66	10.0	8.0	Y
Lot 6 C	173	1	3,648.3	10,460.6	864.70	4.92	0.00	66	10.0	8.0	Y
Lot 6 D	174	1	3,594.9	10,440.8	864.70	4.92	0.00	66	10.0	8.0	Y
Lot 7	175	1	3,436.0	10,449.5	848.50	4.92	0.00	66	10.0	8.0	Y
Lot 8	176	1	3,305.3	10,340.6	832.70	4.92	0.00	66	10.0	8.0	Y
Lot 9	177	1	3,166.3	10,193.2	816.00	4.92	0.00	66	10.0	8.0	Y
Lot 10	178	1	2,986.7	10,096.2	809.20	4.92	0.00	66	10.0	8.0	Y
Lot 11	179	1	2,789.4	9,811.0	798.90	4.92	0.00	66	10.0	8.0	Y
Lot 12	180	1	2,674.0	9,899.9	802.00	4.92	0.00	66	10.0	8.0	Y
Lot 13	181	1	2,549.0	9,980.8	803.90	4.92	0.00	66	10.0	8.0	Y
Lot 14	182	1	2,426.9	10,084.3	804.00	4.92	0.00	66	10.0	8.0	Y
Lot 15	183	1	2,330.1	10,287.2	808.90	4.92	0.00	66	10.0	8.0	Y
Lot 16	184	1	2,290.3	10,483.5	814.20	4.92	0.00	66	10.0	8.0	Y
Lot 17	185	1	2,433.6	10,569.8	822.30	4.92	0.00	66	10.0	8.0	Y
Lot 18	186	1	2,574.1	10,690.8	832.40	4.92	0.00	66	10.0	8.0	Y
Lot 19	187	1	2,717.8	10,804.8	842.80	4.92	0.00	66	10.0	8.0	Y
Lot 20	188	1	2,862.2	10,905.8	852.00	4.92	0.00	66	10.0	8.0	Y
Lot 21	189	1	3,016.1	11,004.8	859.70	4.92	0.00	66	10.0	8.0	Y
Lot 22	190	1	3,153.9	10,840.9	853.90	4.92	0.00	66	10.0	8.0	Y
Lot 23	191	1	2,929.1	10,713.2	845.90	4.92	0.00	66	10.0	8.0	Y
Lot 24	192	1	2,856.0	10,613.0	836.90	4.92	0.00	66	10.0	8.0	Y
Lot 25	193	1	2,731.9	10,499.0	828.00	4.92	0.00	66	10.0	8.0	Y
Lot 26	194	1	2,549.0	10,402.6	818.30	4.92	0.00	66	10.0	8.0	Y

Lot 27	195	1	2,755.9	10,224.9	813.70	4.92	0.00	66	10.0	8.0	Y
Lot 28	196	1	2,953.7	10,346.9	822.90	4.92	0.00	66	10.0	8.0	Y
Lot 29	197	1	3,103.1	10,468.3	832.70	4.92	0.00	66	10.0	8.0	Y
Lot 30	198	1	3,259.7	10,616.9	850.50	4.92	0.00	66	10.0	8.0	Y

Kimley-Horn and Associates, Inc. 7 January 2008
Fiedler TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Future Graded

Barrier Name	Type	Height Min	Height Max	If Wall $ per Unit Area	If Berm $ per Unit Vol.	Top Width	Run:Rise	Add'tnl $ per Unit Length	Points Name	No.	Coordinates (bottom) X	Y	Z	Height at Point	Segment Seg Ht Increment	Perturbs #Up	#Dn	On Struct?	Important Reflections?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
LOT 1	W	0.00	99.99	0.00				0.00	point1	1	3,157.3	11,058.5	873.00	15.00	0.00	0	0		
									point2	2	3,115.1	11,118.2	873.00	15.00	0.00	0	0		
									point3	3	3,187.9	11,171.8	873.00	15.00	0.00	0	0		
									point4	4	3,208.5	11,142.5	873.00	15.00	0.00	0	0		
									point5	5	3,213.8	11,129.1	873.00	15.00	0.00	0	0		
									point6	6	3,214.6	11,106.6	873.00	15.00	0.00	0	0		
									point7	7	3,206.6	11,086.7	873.00	15.00	0.00	0	0		
									point8	8	3,157.3	11,058.5	873.00	15.00					
LOT 2	W	0.00	99.99	0.00				0.00	point9	9	3,286.3	11,050.7	868.50	15.00	0.00	0	0		
									point10	10	3,219.2	11,000.2	868.50	15.00	0.00	0	0		
									point11	11	3,261.5	10,940.7	868.50	15.00	0.00	0	0		
									point12	12	3,310.8	10,973.1	868.50	15.00	0.00	0	0		
									point13	13	3,327.3	10,989.6	868.50	15.00	0.00	0	0		
									point14	14	3,327.3	11,004.2	868.50	15.00	0.00	0	0		
									point15	15	3,324.6	11,011.2	868.50	15.00	0.00	0	0		
									point16	16	3,317.6	11,018.4	868.50	15.00	0.00	0	0		
									point17	17	3,286.3	11,050.7	868.50	15.00					
LOT 3	W	0.00	99.99	0.00				0.00	point18	18	3,391.9	10,907.7	868.70	15.00	0.00	0	0		
									point19	19	3,314.1	10,839.4	868.70	15.00	0.00	0	0		
									point20	20	3,347.1	10,798.3	868.70	15.00	0.00	0	0		
									point21	21	3,362.2	10,805.8	868.70	15.00	0.00	0	0		
									point22	22	3,373.5	10,817.0	868.70	15.00	0.00	0	0		
									point23	23	3,410.7	10,855.4	868.70	15.00	0.00	0	0		
									point24	24	3,417.3	10,865.6	868.70	15.00	0.00	0	0		
									point25	25	3,417.1	10,875.4	868.70	15.00	0.00	0	0		
									point26	26	3,414.9	10,880.4	868.70	15.00	0.00	0	0		
									point27	27	3,391.9	10,907.7	868.70	15.00					
LOT 4	W	0.00	99.99	0.00				0.00	point28	28	3,377.8	10,789.4	870.00	15.00	0.00	0	0		
									point29	29	3,430.6	10,724.1	870.00	15.00	0.00	0	0		
									point30	30	3,492.6	10,770.6	870.00	15.00	0.00	0	0		
									point31	31	3,475.6	10,795.3	870.00	15.00	0.00	0	0		
									point32	32	3,456.3	10,819.0	870.00	15.00	0.00	0	0		
									point33	33	3,446.4	10,822.9	870.00	15.00	0.00	0	0		
									point34	34	3,435.7	10,823.1	870.00	15.00	0.00	0	0		

						point35	35	3,425.9	10,819.7	870.00	15.00	0.00	0	0
						point36	36	3,390.1	10,801.7	870.00	15.00	0.00	0	0
						point37	37	3,377.8	10,789.4	870.00	15.00			
LOT 5	W	0.00	99.99	0.00	0.00	point39	39	3,477.2	10,642.6	867.50	15.00	0.00	0	0
						point40	40	3,528.3	10,580.7	867.50	15.00	0.00	0	0
						point41	41	3,566.1	10,608.9	867.50	15.00	0.00	0	0
						point42	42	3,575.6	10,619.8	867.50	15.00	0.00	0	0
						point43	43	3,578.7	10,633.5	867.50	15.00	0.00	0	0
						point44	44	3,577.6	10,641.5	867.50	15.00	0.00	0	0
						point45	45	3,541.9	10,686.8	867.50	15.00	0.00	0	0
						point46	46	3,535.7	10,689.5	867.50	15.00	0.00	0	0
						point47	47	3,529.0	10,688.4	867.50	15.00	0.00	0	0
						point48	48	3,514.1	10,680.3	867.50	15.00	0.00	0	0
						point49	49	3,469.7	10,655.4	867.50	15.00	0.00	0	0
						point50	50	3,477.2	10,642.6	867.50	15.00			
LOT 6	W	0.00	99.99	0.00	0.00	point51	51	3,632.2	10,490.5	864.70	15.00	0.00	0	0
						point52	52	3,655.7	10,464.6	864.70	15.00	0.00	0	0
						point53	53	3,689.7	10,505.2	864.70	15.00	0.00	0	0
						point54	54	3,691.6	10,536.3	864.70	15.00	0.00	0	0
						point55	55	3,689.9	10,547.0	864.70	15.00	0.00	0	0
						point56	56	3,661.4	10,588.5	864.70	15.00	0.00	0	0
						point57	57	3,653.9	10,592.2	864.70	15.00	0.00	0	0
						point58	58	3,644.9	10,591.7	864.70	15.00	0.00	0	0
						point59	59	3,614.4	10,574.3	864.70	15.00	0.00	0	0
						point60	60	3,579.8	10,553.4	864.70	15.00	0.00	0	0
						point61	61	3,632.2	10,490.5	864.70	15.00			

Kimley-Horn and Associates, Inc.
Fiedler

7 January 2008
TNM 2.5

INPUT: TERRAIN LINES
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Future Graded

Terrain Line Name	Points No.	Coordinates (ground) X ft	Y ft	Z ft
ROW berm	1	4,064.4	10,334.0	886.16
	2	4,016.0	10,383.1	887.29
	3	3,918.1	10,524.2	886.59
	4	3,823.7	10,616.1	885.75
	5	3,749.1	10,723.2	885.11
	6	3,721.3	10,755.7	884.82
	7	3,673.0	10,797.6	885.65
	8	3,596.9	10,903.5	886.00
	9	3,547.0	10,962.4	886.00
	10	3,503.2	11,006.7	884.89
	11	3,478.2	11,050.1	884.21
	12	3,417.5	11,123.5	884.17
	13	3,392.9	11,154.8	885.00
	14	3,345.9	11,205.3	887.00
	15	3,298.6	11,250.8	888.51
	16	3,215.4	11,355.3	891.00
	17	3,174.4	11,408.5	892.00
	18	3,133.0	11,464.7	895.68
	19	3,091.2	11,506.6	895.00
	20	3,040.8	11,565.8	896.64
	21	2,990.6	11,631.6	897.79
	22	2,939.8	11,694.9	897.79
	23	2,916.9	11,723.0	898.00

INPUT: TERRAIN LINES

Lot 1 Toe	455	3,110.4	11,166.2	873.00
	456	3,148.1	11,188.8	873.00
	457	3,158.5	11,191.1	873.00
	458	3,168.1	11,188.2	873.00
	459	3,174.4	11,184.2	873.00
	460	3,187.9	11,171.8	873.00
Lot 2 Toe	461	3,199.5	11,050.5	868.50
	462	3,244.1	11,074.5	868.50
	463	3,251.5	11,075.5	868.50
	464	3,259.7	11,074.8	868.50
	465	3,268.9	11,068.7	868.50
	466	3,286.3	11,050.7	868.50
Lot 3 Toe	467	3,316.1	10,903.2	868.70
	468	3,337.1	10,924.7	868.70
	469	3,351.9	10,934.0	868.70
	470	3,364.3	10,934.0	868.70
	471	3,371.1	10,931.0	868.70
	472	3,377.0	10,926.4	868.70
	473	3,391.9	10,907.7	868.70
Lot 4 Toe	474	3,492.6	10,770.6	870.00
	475	3,501.8	10,757.5	870.00
	476	3,505.0	10,748.2	870.00
	477	3,502.8	10,733.6	870.00
	478	3,488.3	10,716.7	870.00
	479	3,474.4	10,702.3	870.00
Lot 2 Top	484	3,197.3	11,054.3	870.74
	100	3,205.1	11,060.9	871.60
	101	3,212.7	11,066.8	872.38
	102	3,220.7	11,073.0	873.14
	103	3,228.7	11,078.5	873.60
	104	3,232.0	11,081.2	873.87
	105	3,237.8	11,084.7	874.25
	106	3,244.4	11,087.2	874.66
	107	3,250.9	11,088.4	874.93

	108	3,258.7	11,088.8	875.21
	109	3,268.0	11,086.5	875.32
	110	3,274.3	11,082.4	875.25
	111	3,278.4	11,077.8	875.06
	112	3,284.6	11,070.0	874.58
	113	3,290.8	11,062.1	874.07
	114	3,297.2	11,054.3	873.66
	115	3,303.6	11,046.6	873.26
	116	3,310.0	11,038.8	872.85
	117	3,316.2	11,031.0	872.38
	118	3,322.6	11,023.2	871.95
	119	3,329.7	11,014.9	871.62
	120	3,331.2	11,011.2	871.45
	121	3,332.5	11,005.3	871.15
	122	3,332.6	10,999.3	870.85
	123	3,331.6	10,993.4	870.65
	124	3,328.5	10,988.4	869.89
	125	3,325.2	10,983.8	869.55
	126	3,319.5	10,978.9	869.13
	127	3,311.5	10,972.1	868.42
Lot 3 Top	486	3,308.6	10,903.6	865.85
	165	3,316.4	10,909.9	866.46
	166	3,324.3	10,916.2	867.09
	167	3,332.5	10,922.1	867.97
	169	3,340.8	10,928.6	868.71
	170	3,344.6	10,932.0	869.03
	171	3,349.0	10,934.9	869.46
	172	3,354.0	10,937.1	869.95
	173	3,359.6	10,938.3	870.47
	174	3,365.2	10,937.6	870.58
	175	3,370.6	10,935.8	870.64
	176	3,376.2	10,933.7	871.18
	177	3,381.3	10,930.6	871.73
	178	3,388.3	10,923.3	872.11

	179	3,396.0	10,916.7	872.93
	180	3,403.8	10,910.2	873.90
	181	3,411.3	10,903.4	874.64
	182	3,418.6	10,896.5	875.22
	183	3,426.5	10,888.3	875.69
	184	3,429.5	10,883.3	875.81
	185	3,431.6	10,875.2	875.69
	186	3,431.1	10,866.5	875.34
	187	3,428.4	10,858.5	875.02
	188	3,423.3	10,851.9	874.45
	189	3,418.1	10,848.1	873.89
	190	3,414.9	10,846.0	873.46
	191	3,407.1	10,839.5	872.86
	192	3,403.3	10,836.8	872.47
	193	3,395.3	10,830.7	871.75
	194	3,387.4	10,824.4	871.08
	195	3,379.4	10,818.3	870.35
	196	3,371.0	10,812.4	869.42
	197	3,363.1	10,806.1	868.61
	198	3,361.5	10,804.9	868.46
Lot 4 Top	489	3,475.8	10,701.0	870.99
	246	3,483.7	10,707.2	871.65
	247	3,491.6	10,713.5	872.30
	248	3,499.6	10,719.5	873.08
	249	3,503.9	10,722.8	873.38
	250	3,508.2	10,727.6	873.73
	251	3,511.6	10,733.1	874.11
	252	3,514.0	10,739.4	874.50
	253	3,515.3	10,746.1	874.99
	254	3,515.3	10,753.2	875.47
	255	3,513.5	10,760.1	875.74
	256	3,510.7	10,766.2	876.04
	257	3,505.4	10,773.7	876.10
	258	3,499.6	10,781.8	876.08

	259	3,494.2	10,790.3	876.39
	260	3,488.9	10,798.8	876.73
	261	3,483.0	10,806.9	876.73
	262	3,477.1	10,814.9	876.68
	263	3,468.5	10,825.4	876.54
	264	3,467.0	10,826.2	876.49
	265	3,464.2	10,829.3	876.48
	266	3,456.0	10,833.1	876.18
	267	3,448.1	10,834.2	875.70
	268	3,441.4	10,833.7	875.29
	269	3,434.8	10,832.6	874.77
	270	3,427.7	10,829.8	874.11
	271	3,426.5	10,829.1	873.99
	272	3,418.5	10,822.9	873.14
	273	3,410.3	10,816.9	872.40
	274	3,402.2	10,810.8	871.61
	275	3,394.2	10,804.7	870.80
Lot 1 Top	24	3,063.6	11,135.7	871.96
	25	3,069.7	11,141.3	872.40
	26	3,077.6	11,147.6	873.07
	27	3,079.7	11,149.3	873.30
	491	3,087.9	11,155.2	873.81
	492	3,096.1	11,161.1	874.33
	493	3,103.8	11,167.6	875.26
	494	3,111.7	11,174.1	876.09
	495	3,120.0	11,179.6	876.42
	496	3,126.9	11,184.4	876.89
	497	3,131.7	11,188.5	877.23
	498	3,136.1	11,192.8	877.57
	499	3,141.7	11,196.6	877.88
	500	3,146.4	11,199.3	878.09
	501	3,152.0	11,201.3	878.33
	502	3,159.5	11,201.8	878.51
	503	3,166.4	11,201.0	878.75

	504	3,173.1	11,199.0	878.92
	505	3,179.3	11,195.8	879.07
	506	3,185.0	11,191.2	879.09
	507	3,189.0	11,185.8	878.91
	508	3,194.6	11,177.5	878.42
	481	3,200.4	11,169.3	878.09
	48	3,206.7	11,161.5	878.06
	49	3,212.5	11,153.4	877.74
	50	3,219.2	11,144.0	877.42
	51	3,220.8	11,137.6	877.02
	52	3,221.5	11,131.9	876.66
	53	3,221.8	11,126.3	876.34
	54	3,221.3	11,120.7	875.86
	55	3,220.3	11,115.2	875.37
	56	3,218.8	11,110.0	874.86
	57	3,216.8	11,105.0	874.32
	58	3,214.8	11,100.1	874.00
	59	3,212.4	11,095.5	873.63
	60	3,209.9	11,091.0	873.28
	61	3,207.5	11,086.7	872.93

Kimley-Horn and Associates, Inc.
Fiedler

7 January 2008
TNM 2.5

INPUT: TREE ZONES
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Future Graded

Tree Zone Name	Average Height ft	Points No.	Coordinates (ground) X ft	Y ft	Z ft
Orange Trees W of Trail	15.00	40	3,205.3	11,274.6	884.00
		41	3,243.2	11,233.8	884.00
		42	3,256.1	11,217.5	883.00
		43	3,288.8	11,177.3	881.00
		44	3,325.9	11,135.2	880.00
		45	3,339.4	11,115.3	879.00
		46	3,350.2	11,099.9	878.00
		47	3,359.6	11,086.2	877.00
		48	3,379.2	11,057.2	876.00
		49	3,396.1	11,032.4	875.00
		50	3,404.5	11,026.0	876.00
		51	3,418.8	11,014.3	877.00
		52	3,439.7	10,998.5	878.00
		53	3,449.7	10,991.2	879.00
		54	3,460.7	10,983.5	880.00
		55	3,469.8	10,976.6	881.00
		56	3,484.8	10,960.1	882.00
		57	3,550.3	10,878.9	883.00
		58	3,588.8	10,834.5	883.00
		59	3,622.5	10,791.5	882.00
		60	3,634.6	10,771.7	881.00
		61	3,641.3	10,756.8	880.00
		62	3,649.5	10,738.6	879.00

	63	3,657.1	10,723.9	878.00
	64	3,663.0	10,710.9	877.00
	65	3,669.1	10,696.2	876.00
	66	3,678.5	10,680.0	875.00
	67	3,688.4	10,670.6	875.00
	68	3,698.7	10,660.5	876.00
	69	3,731.1	10,627.6	877.00
	70	3,752.3	10,609.5	878.00
	71	3,773.8	10,590.0	879.00
	72	3,783.8	10,581.9	880.00
	73	3,796.4	10,574.0	882.00
	74	3,797.8	10,568.2	881.00
	75	3,790.3	10,562.0	880.00
	76	3,782.7	10,555.5	879.00
	77	3,775.1	10,548.5	878.00
	78	3,767.0	10,543.0	877.00
	79	3,756.1	10,533.8	876.00
	80	3,746.2	10,525.7	875.00
	81	3,736.5	10,517.6	874.00
	82	3,726.4	10,509.4	873.00
	83	3,717.7	10,502.2	872.00
	84	3,708.7	10,494.9	871.00
	85	3,702.4	10,503.5	870.53
	86	3,708.1	10,529.1	871.30
	87	3,705.5	10,554.8	872.07
	88	3,671.7	10,601.1	871.36
	89	3,583.3	10,656.5	871.74
	90	3,555.2	10,695.2	873.34
	91	3,513.1	10,767.3	876.04
	92	3,490.9	10,799.8	876.73
	93	3,470.1	10,826.8	876.54
	94	3,428.7	10,889.8	875.69
	95	3,384.3	10,933.2	871.73
	96	3,332.1	11,016.1	871.62

	97	3,276.8	11,083.6	875.25
	98	3,221.5	11,145.6	877.42
	99	3,184.9	11,193.7	879.09
	100	3,158.7	11,209.1	879.00
	101	3,138.5	11,224.2	880.00
	102	3,155.8	11,237.0	881.00
	103	3,170.3	11,248.2	882.00
	104	3,186.0	11,260.0	883.00
	105	3,199.9	11,270.4	884.00

Kimley-Horn and Associates, Inc.
Fiedler

7 January 2008
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Club Estates TM 5499
RUN: Future Graded
BARRIER DESIGN: INPUT HEIGHTS

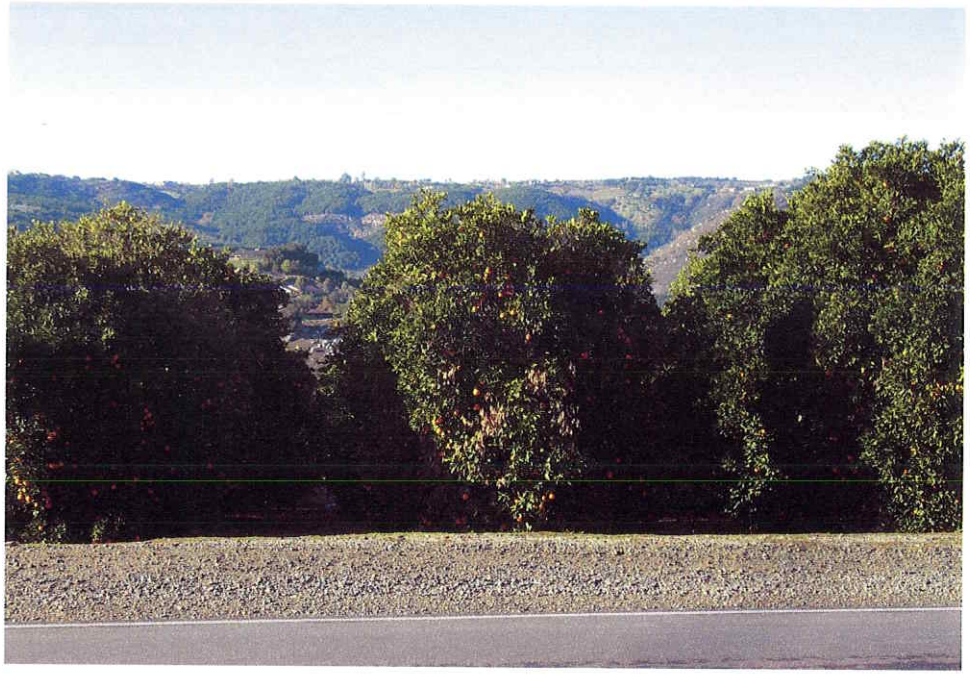
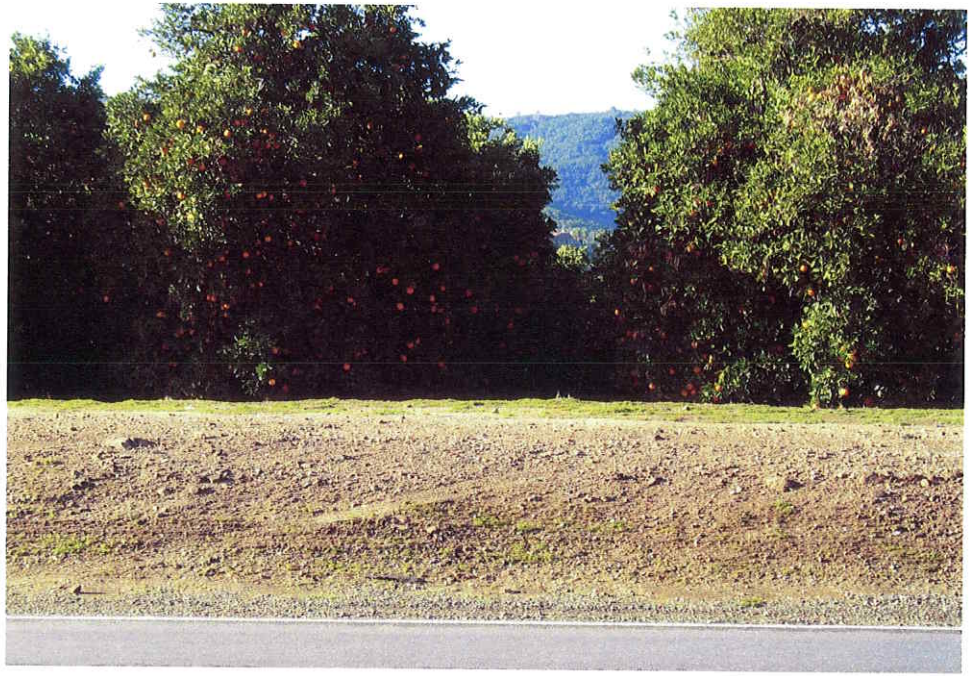
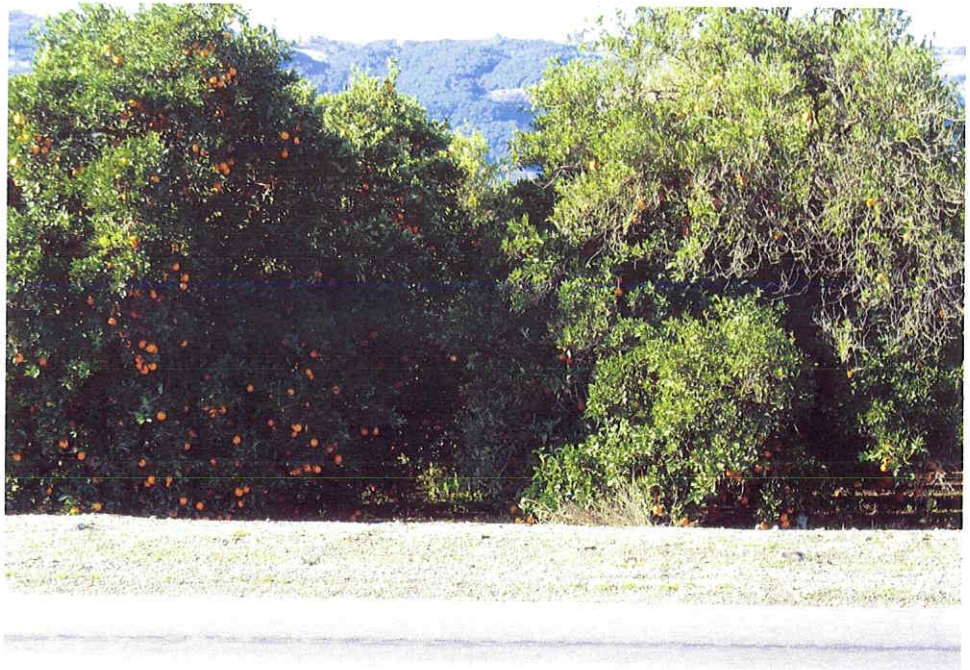
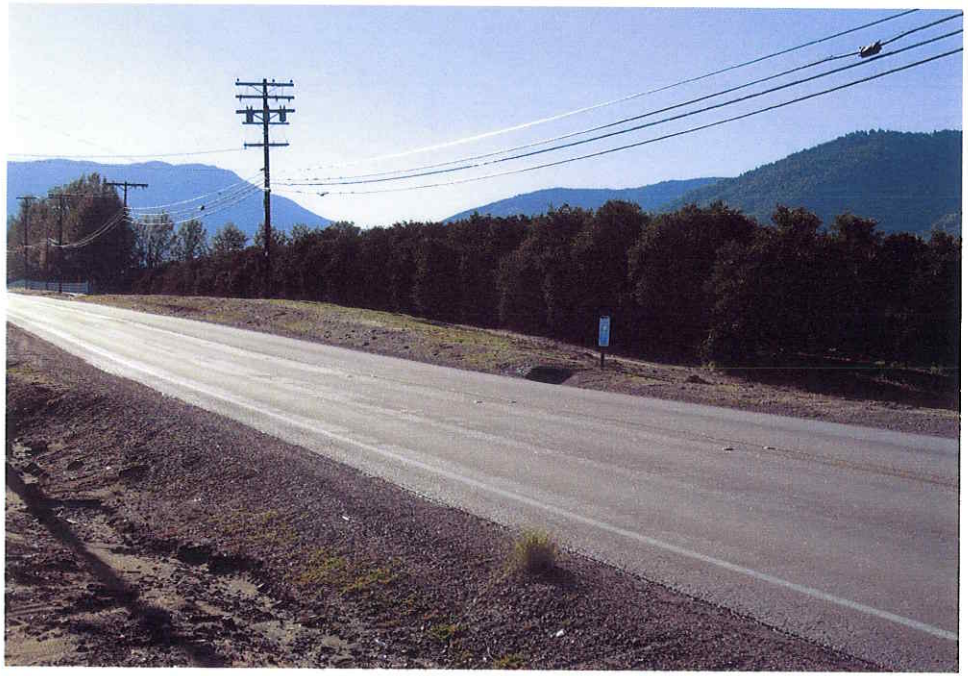
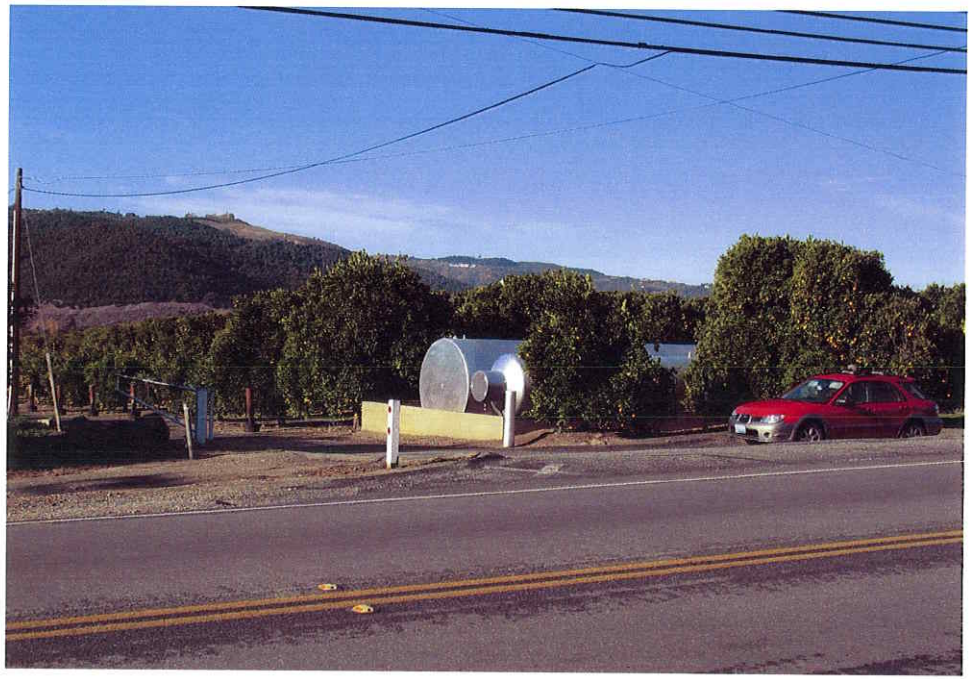
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

ATMOSPHERICS: 68 deg F, 50% RH

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Lot 1 A	138	1	0.0	61.7	66	61.7	10	----	61.7	0.0	8	-8.0
Lot 1 B	139	1	0.0	61.8	66	61.8	10	----	61.8	0.0	8	-8.0
Lot 1 C	140	1	0.0	58.9	66	58.9	10	----	58.9	0.0	8	-8.0
Lot 1 D	141	1	0.0	58.3	66	58.3	10	----	58.3	0.0	8	-8.0
Lot 1 E	142	1	0.0	57.3	66	57.3	10	----	57.3	0.0	8	-8.0
Lot 1 F	143	1	0.0	60.2	66	60.2	10	----	60.2	0.0	8	-8.0
Lot 1 G	144	1	0.0	60.0	66	60.0	10	----	60.0	0.0	8	-8.0
Lot 1 H	145	1	0.0	59.5	66	59.5	10	----	59.5	0.0	8	-8.0
Lot 1 I	146	1	0.0	59.5	66	59.5	10	----	59.5	0.0	8	-8.0
Lot 2 A	147	1	0.0	58.7	66	58.7	10	----	58.7	0.0	8	-8.0
Lot 2 B	148	1	0.0	59.7	66	59.7	10	----	59.7	0.0	8	-8.0
Lot 2 C	149	1	0.0	55.2	66	55.2	10	----	55.2	0.0	8	-8.0
Lot 2 D	150	1	0.0	54.8	66	54.8	10	----	54.8	0.0	8	-8.0
Lot 2 E	151	1	0.0	54.1	66	54.1	10	----	54.1	0.0	8	-8.0
Lot 2 F	152	1	0.0	45.7	66	45.7	10	----	45.7	0.0	8	-8.0
Lot 2 G	153	1	0.0	60.1	66	60.1	10	----	60.1	0.0	8	-8.0
Lot 3 A	154	1	0.0	57.9	66	57.9	10	----	57.9	0.0	8	-8.0
Lot 3 B	155	1	0.0	58.4	66	58.4	10	----	58.4	0.0	8	-8.0
Lot 3 C	156	1	0.0	56.7	66	56.7	10	----	56.7	0.0	8	-8.0
Lot 3 D	157	1	0.0	55.0	66	55.0	10	----	55.0	0.0	8	-8.0
Lot 3 E	158	1	0.0	54.0	66	54.0	10	----	54.0	0.0	8	-8.0
Lot 3 F	159	1	0.0	46.4	66	46.4	10	----	46.4	0.0	8	-8.0
Lot 4 A	160	1	0.0	56.4	66	56.4	10	----	56.4	0.0	8	-8.0

Lot 4 B	161	1	0.0	57.8	66	57.8	10	----	57.8	0.0	8	-8.0
Lot 4 C	162	1	0.0	54.6	66	54.6	10	----	54.6	0.0	8	-8.0
Lot 4 D	163	1	0.0	53.4	66	53.4	10	----	53.4	0.0	8	-8.0
Lot 4 E	164	1	0.0	47.0	66	47.0	10	----	47.0	0.0	8	-8.0
Lot 5 A	165	1	0.0	52.9	66	52.9	10	----	52.9	0.0	8	-8.0
Lot 5 B	166	1	0.0	50.3	66	50.3	10	----	50.3	0.0	8	-8.0
Lot 5 C	167	1	0.0	43.2	66	43.2	10	----	43.2	0.0	8	-8.0
Lot 5 D	168	1	0.0	50.5	66	50.5	10	----	50.5	0.0	8	-8.0
Lot 5 E	169	1	0.0	52.8	66	52.8	10	----	52.8	0.0	8	-8.0
Lot 5 F	170	1	0.0	52.3	66	52.3	10	----	52.3	0.0	8	-8.0
Lot 6 A	171	1	0.0	51.8	66	51.8	10	----	51.8	0.0	8	-8.0
Lot 6 B	172	1	0.0	44.6	66	44.6	10	----	44.6	0.0	8	-8.0
Lot 6 C	173	1	0.0	54.2	66	54.2	10	----	54.2	0.0	8	-8.0
Lot 6 D	174	1	0.0	53.0	66	53.0	10	----	53.0	0.0	8	-8.0
Lot 7	175	1	0.0	50.9	66	50.9	10	----	50.9	0.0	8	-8.0
Lot 8	176	1	0.0	49.8	66	49.8	10	----	49.8	0.0	8	-8.0
Lot 9	177	1	0.0	48.5	66	48.5	10	----	48.5	0.0	8	-8.0
Lot 10	178	1	0.0	47.6	66	47.6	10	----	47.6	0.0	8	-8.0
Lot 11	179	1	0.0	46.4	66	46.4	10	----	46.4	0.0	8	-8.0
Lot 12	180	1	0.0	46.0	66	46.0	10	----	46.0	0.0	8	-8.0
Lot 13	181	1	0.0	45.4	66	45.4	10	----	45.4	0.0	8	-8.0
Lot 14	182	1	0.0	45.4	66	45.4	10	----	45.4	0.0	8	-8.0
Lot 15	183	1	0.0	46.2	66	46.2	10	----	46.2	0.0	8	-8.0
Lot 16	184	1	0.0	47.0	66	47.0	10	----	47.0	0.0	8	-8.0
Lot 17	185	1	0.0	47.8	66	47.8	10	----	47.8	0.0	8	-8.0
Lot 18	186	1	0.0	49.1	66	49.1	10	----	49.1	0.0	8	-8.0
Lot 19	187	1	0.0	50.7	66	50.7	10	----	50.7	0.0	8	-8.0
Lot 20	188	1	0.0	52.2	66	52.2	10	----	52.2	0.0	8	-8.0
Lot 21	189	1	0.0	54.0	66	54.0	10	----	54.0	0.0	8	-8.0
Lot 22	190	1	0.0	51.6	66	51.6	10	----	51.6	0.0	8	-8.0
Lot 23	191	1	0.0	50.5	66	50.5	10	----	50.5	0.0	8	-8.0
Lot 24	192	1	0.0	49.6	66	49.6	10	----	49.6	0.0	8	-8.0
Lot 25	193	1	0.0	48.6	66	48.6	10	----	48.6	0.0	8	-8.0
Lot 26	194	1	0.0	47.3	66	47.3	10	----	47.3	0.0	8	-8.0
Lot 27	195	1	0.0	47.5	66	47.5	10	----	47.5	0.0	8	-8.0
Lot 28	196	1	0.0	48.4	66	48.4	10	----	48.4	0.0	8	-8.0
Lot 29	197	1	0.0	49.5	66	49.5	10	----	49.5	0.0	8	-8.0
Lot 30	198	1	0.0	50.8	66	50.8	10	----	50.8	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max

		dB	dB	dB
All Selected	61	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

APPENDIX B
SITE PHOTOS