



LSC TRANSPORTATION CONSULTANTS, INC.
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Colorado Springs, CO 80909
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FAX (719) 633-5430
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Website: <http://www.lsctrans.com>

June 24, 2021

Mr. Jeff Mark
Landhuis Company
212 North Wahsatch Avenue, Suite 301
Colorado Springs, CO 80903

RE: Windermere Noise Impact Study
El Paso County, Colorado
LSC #184641

Dear Mr. Mark:

In response to your request, LSC Transportation Consultants, Inc. has completed a detailed analysis of the noise impacts of Marksheffel Road and North Carefree Circle on the proposed Windermere residential development. As shown in Figure 1, the site is located northwest of the intersection of Marksheffel Road and North Carefree Circle in El Paso County, Colorado. LSC has completed an evaluation of the noise exposure for submittal to El Paso County in accordance with the Federal Highway Administration (FHWA) requirements.

EXISTING TRAFFIC

Figure 2 shows the afternoon peak-hour traffic volumes at the intersection of Marksheffel Road and North Carefree Circle, based on traffic counts conducted by LSC in June 2021. The traffic count reports are attached.

2040 TRAFFIC

Figure 3 shows the projected 2040 total traffic volumes at the intersection of Marksheffel Road and North Carefree Circle. These volumes are estimates by LSC, based on the 2040 afternoon peak-hour traffic volumes from the *Windermere Traffic Impact Analysis* by LSC dated August 31, 2020 and the existing traffic volumes shown in Figure 2.

TRAFFIC NOISE ANALYSIS

LSC used the software program Traffic Noise Model Version 2.5 — developed by FHWA — to predict the noise levels at nine locations on the south side of the development closest to North

Carefree Circle and 25 locations on the east side of the development closest to Marksheffel Road. The locations are shown in Figure 4. An elevation of five feet was assumed for the receivers.

The input data for the noise predictions included traffic volumes, roadway geometry, topographic elevations, and the locations of the receivers. The analysis was completed using projected 2040 afternoon peak-hour traffic volumes shown in Figure 3. The model assumes Marksheffel Road has been widened to provide two northbound and southbound through lanes by 2040 and that the intersections of North Carefree/Antelope Ridge and North Carefree/Marksheffel have both been signalized.

The results of the noise prediction show that, in the year 2040, Lots 60 through 72 have predicted noise levels that would exceed 67 decibels Leq. If a seven-foot-high noise barrier were constructed at the locations shown in Figure 4, all noise receiver locations are predicted to be below the threshold. This barrier should be made of a rigid material with a density of at least four pounds per square foot and should have no gaps. The noise analysis inputs and outputs are attached.

* * * * *

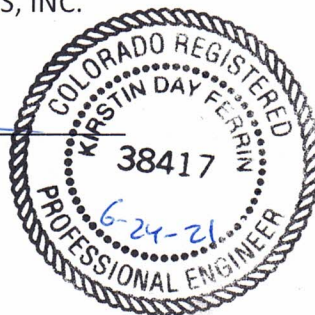
Please contact me if you have any questions or need further assistance.

Respectfully submitted,

LSC TRANSPORTATION CONSULTANTS, INC.

By: _____

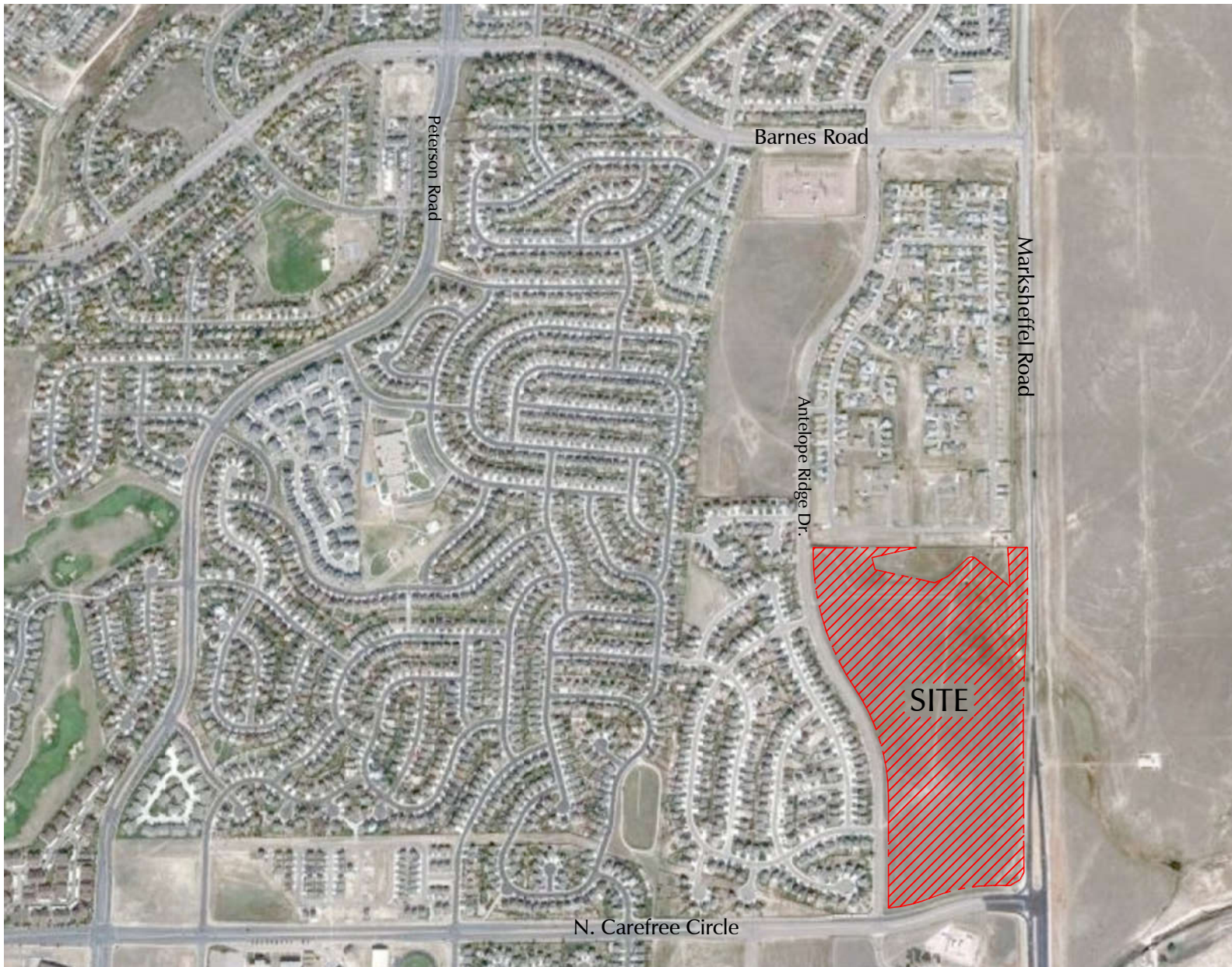
Kirstin D. Ferrin, P.E.
Senior Transportation Engineer



KDF:jas

Enclosures: Figure 1 - Figure 4
Traffic Count Reports
Noise Analysis Inputs/Outputs

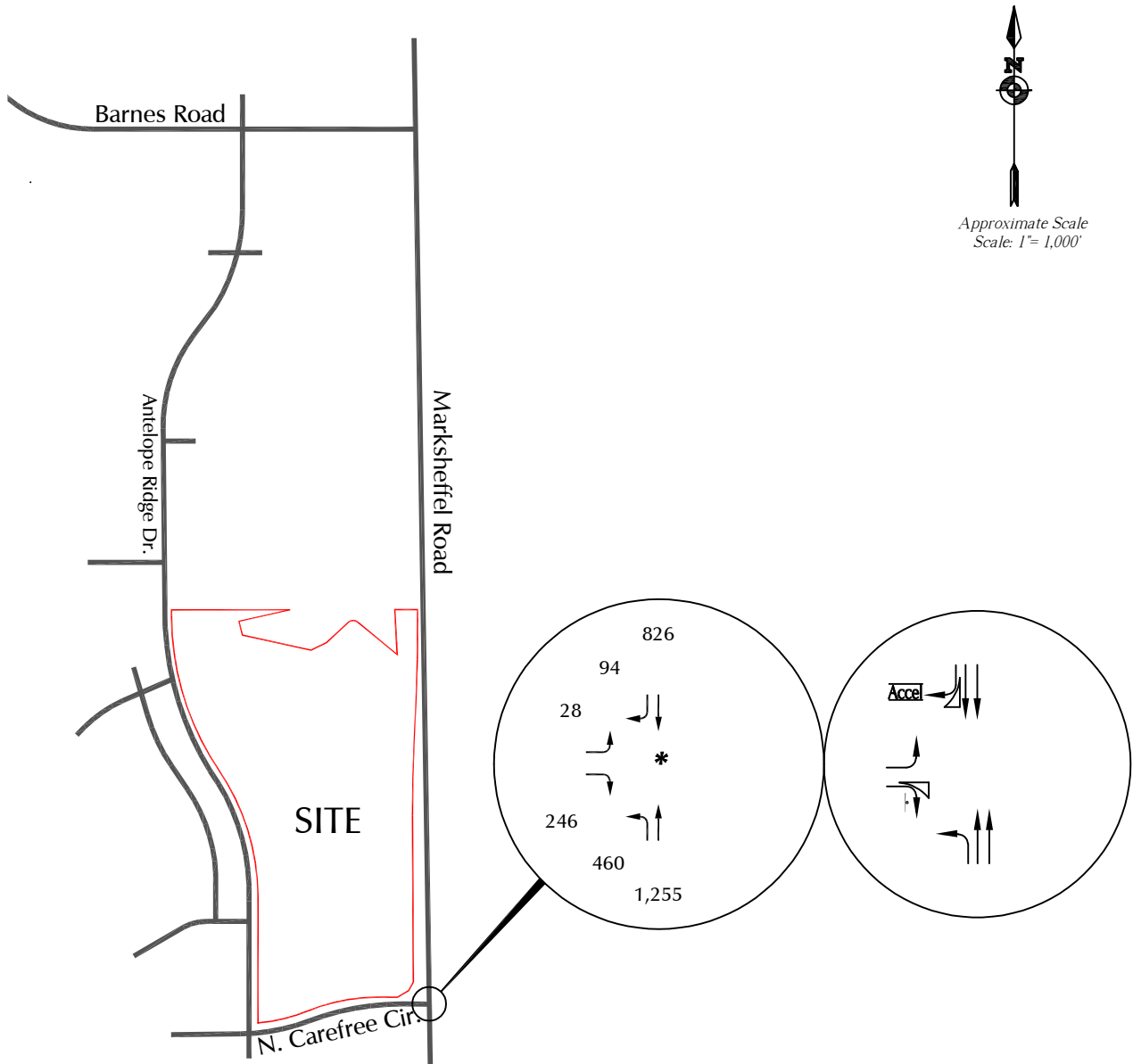
Figures



Approximate Scale
Scale: 1" = 1,000'

Figure 1
**Vicinity
Map**

Windermere Noise Analysis (LSC #184641)



* Based on counts June 2021

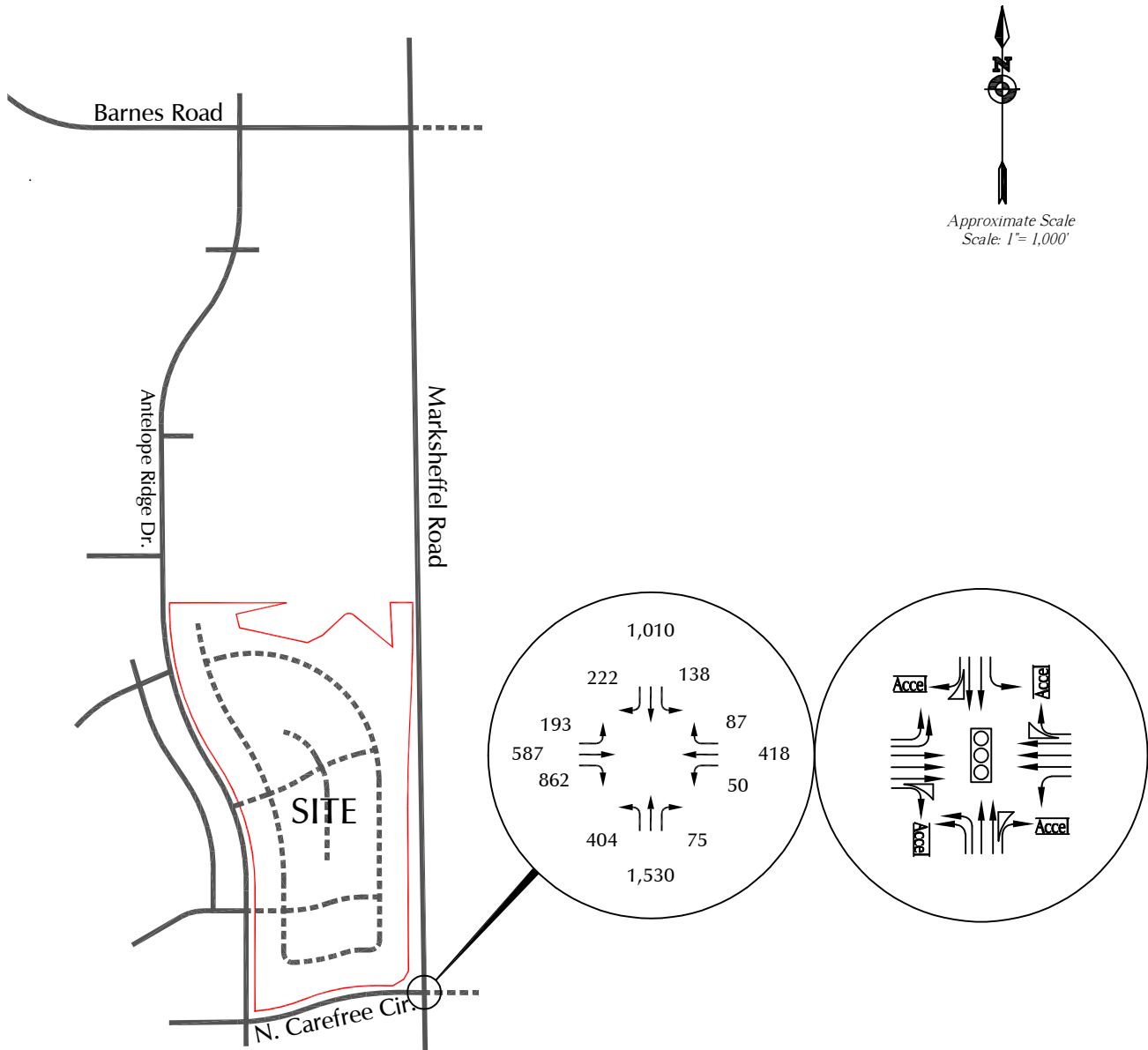
LEGEND:

- = Stop Sign
- XX = PM Weekday Peak-Hour Traffic (vehicles per hour)

Figure 2

Existing Traffic, Lane Geometry and Traffic Control

Windermere Noise Analysis (LSC #184641)



LEGEND:



= Traffic Signal

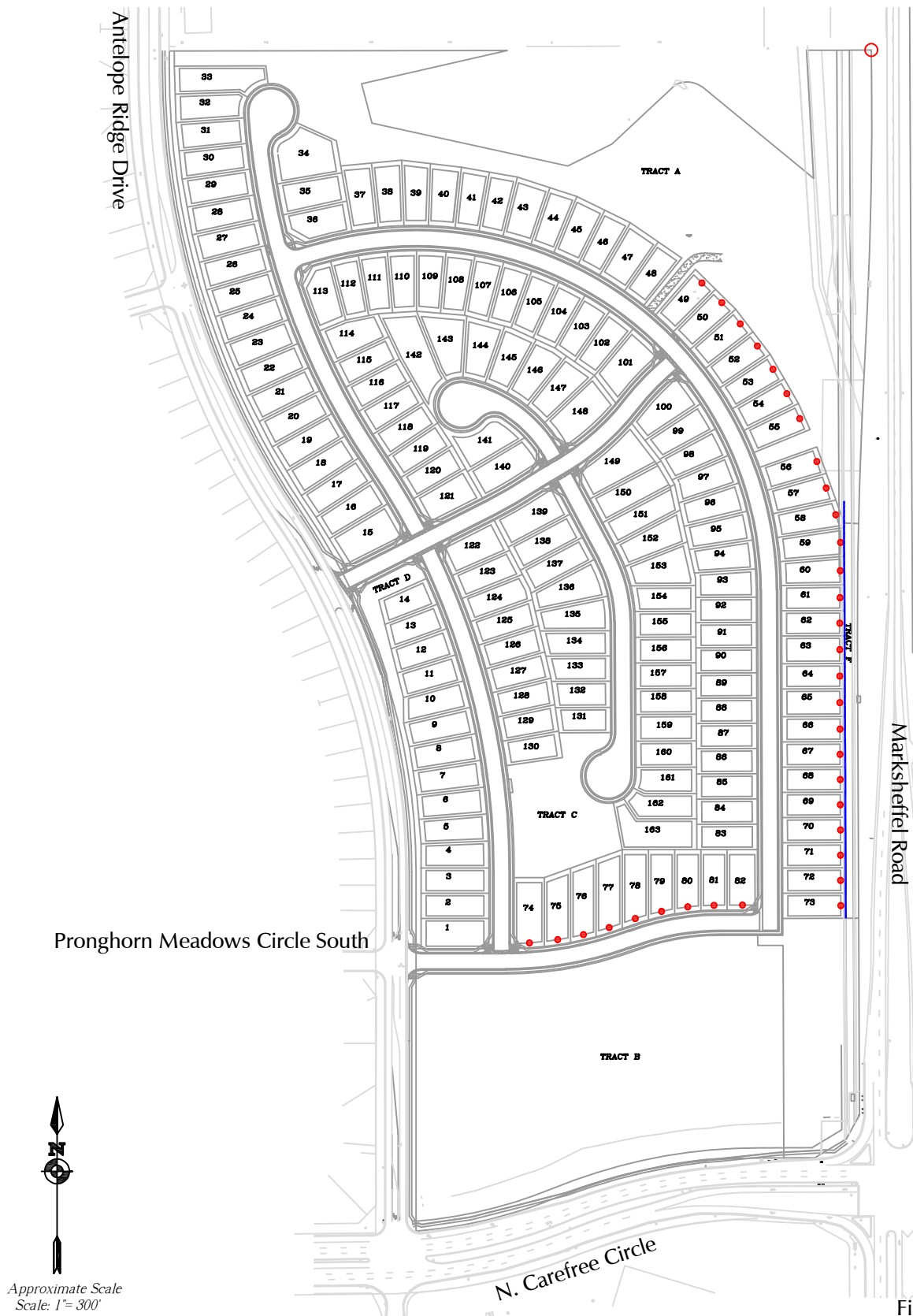
XX

= PM Weekday Peak-Hour Traffic (vehicles per hour)

Figure 3

Year 2040 Total Traffic, Lane Geometry and Traffic Control

Windermere Noise Analysis (LSC #184641)



Marksheffel Road

Antelope Ridge Drive

Pronghorn Meadows Circle South

N. Carefree Circle

Approximate Scale
Scale: 1" = 300'

LEGEND:
 ● = Receiver Location
 — = Proposed 7' Noise Barrier

Figure 4

Noise Analysis Data

Windermere Noise Analysis (LSC #184641)



Traffic Counts

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
Colorado Springs, CO 80905
719-633-2868

File Name : Marksheffel Rd - N Carefree Cir PM
Site Code : 00184161
Start Date : 6/17/2021
Page No : 1

Groups Printed- Unshifted

	Marksheffel Rd Southbound					Westbound					Marksheffel Rd Northbound					N Carfree Cir Eastbound					
Start Time	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	Int. Total
04:00 PM	0	159	28	0	187	0	0	0	0	0	77	287	0	0	364	15	0	45	1	61	612
04:15 PM	0	184	18	0	202	0	0	0	0	0	91	342	0	1	434	13	0	50	0	63	699
04:30 PM	0	218	23	0	241	0	0	0	0	0	120	321	0	0	441	6	0	61	0	67	749
04:45 PM	0	194	24	0	218	0	0	0	0	0	115	314	0	1	430	13	0	45	1	59	707
Total	0	755	93	0	848	0	0	0	0	0	403	1264	0	2	1669	47	0	201	2	250	2767
05:00 PM	0	193	18	0	211	0	0	0	0	0	126	305	0	0	431	4	0	64	3	71	713
05:15 PM	0	221	29	0	250	0	0	0	0	0	99	315	0	1	415	5	0	76	1	82	747
05:30 PM	0	182	26	0	208	0	0	0	0	0	91	280	0	0	371	11	0	45	2	58	637
05:45 PM	0	179	23	0	202	0	0	0	0	0	63	240	0	1	304	15	0	55	0	70	576
Total	0	775	96	0	871	0	0	0	0	0	379	1140	0	2	1521	35	0	240	6	281	2673
Grand Total	0	1530	189	0	1719	0	0	0	0	0	782	2404	0	4	3190	82	0	441	8	531	5440
Apprch %	0	89	11	0		0	0	0	0		24.5	75.4	0	0.1		15.4	0	83.1	1.5		
Total %	0	28.1	3.5	0	31.6	0	0	0	0	0	14.4	44.2	0	0.1	58.6	1.5	0	8.1	0.1	9.8	

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File Name : Marksheffel Rd - N Carefree Cir PM
Site Code : 00184161
Start Date : 6/17/2021
Page No : 2

	Marksheffel Rd Southbound					Westbound					Marksheffel Rd Northbound					N Carfree Cir Eastbound					
Start Time	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	Int. Total
Peak Hour Analysis From 4:00:00 PM to 5:45:00 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 4:30:00 PM																					
4:30:00 PM	0	218	23	0	241	0	0	0	0	0	120	321	0	0	441	6	0	61	0	67	749
4:45:00 PM	0	194	24	0	218	0	0	0	0	0	115	314	0	1	430	13	0	45	1	59	707
5:00:00 PM	0	193	18	0	211	0	0	0	0	0	126	305	0	0	431	4	0	64	3	71	713
5:15:00 PM	0	221	29	0	250	0	0	0	0	0	99	315	0	1	415	5	0	76	1	82	747
Total Volume	0	826	94	0	920	0	0	0	0	0	460	1255	0	2	1717	28	0	246	5	279	2916
% App. Total	0	89.8	10.2	0		0	0	0	0		26.8	73.1	0	0.1		10	0	88.2	1.8		
PHF	.000	.934	.810	.000	.920	.000	.000	.000	.000	.000	.913	.977	.000	.500	.973	.538	.000	.809	.417	.851	.973

LSC Transportation Consultants, Inc.

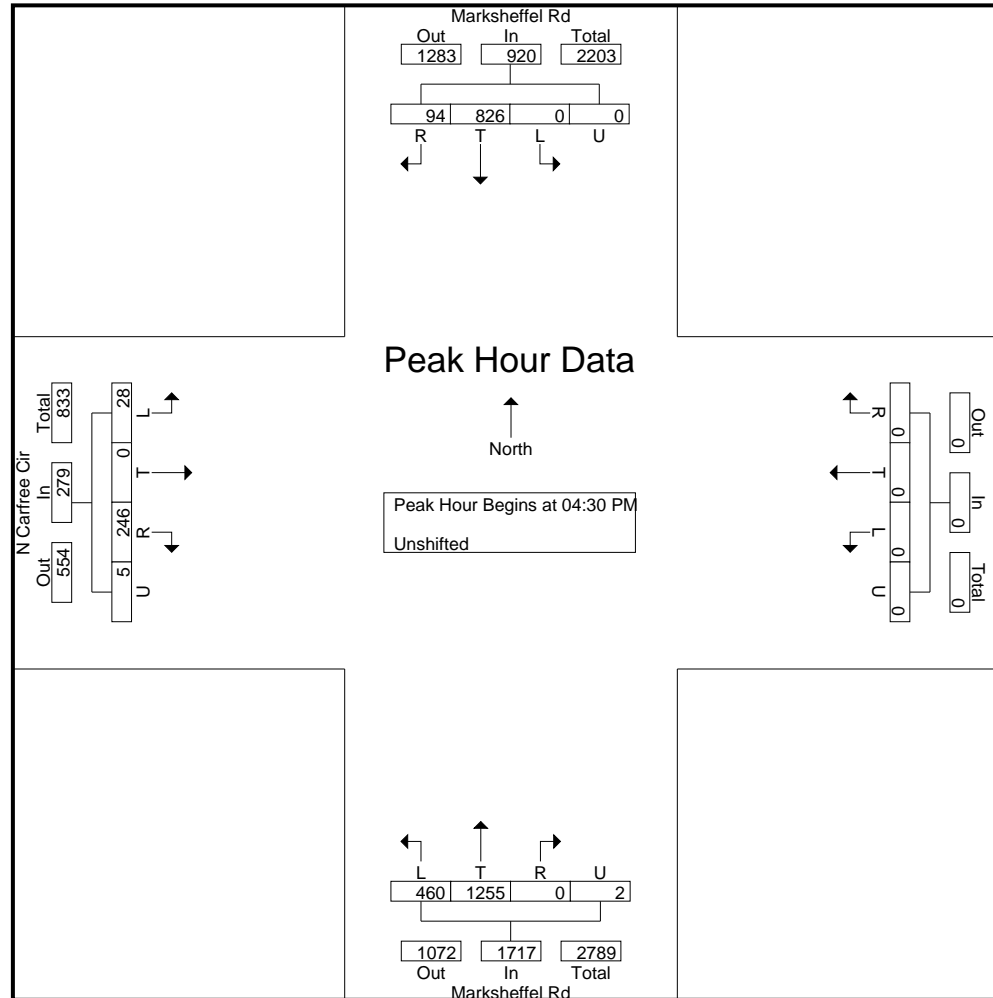
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File Name : Marksheffel Rd - N Carefree Cir PM

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Start Date : 6/17/2021

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File Name : Marksheffel Rd - N Carefree Cir PM
Site Code : 00184161
Start Date : 6/17/2021
Page No : 4

	Marksheffel Rd Southbound					Westbound					Marksheffel Rd Northbound					N Carfree Cir Eastbound					
Start Time	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	Int. Total
Peak Hour Analysis From 4:00:00 PM to 5:45:00 PM - Peak 1 of 1																					
Peak Hour for Each Approach Begins at:																					
	4:30:00 PM					4:00:00 PM					4:15:00 PM					5:00:00 PM					
+0 mins.	0	218	23	0	241	0	0	0	0	0	91	342	0	1	434	4	0	64	3	71	
+5 mins.	0	194	24	0	218	0	0	0	0	0	120	321	0	0	441	5	0	76	1	82	
+10 mins.	0	193	18	0	211	0	0	0	0	0	115	314	0	1	430	11	0	45	2	58	
+15 mins.	0	221	29	0	250	0	0	0	0	0	126	305	0	0	431	15	0	55	0	70	
Total Volume	0	826	94	0	920	0	0	0	0	0	452	1282	0	2	1736	35	0	240	6	281	
% App. Total	0	89.8	10.2	0		0	0	0	0		26	73.8	0	0.1		12.5	0	85.4	2.1		
PHF	.000	.934	.810	.000	.920	.000	.000	.000	.000	.000	.897	.937	.000	.500	.984	.583	.000	.789	.500	.857	

LSC Transportation Consultants, Inc.

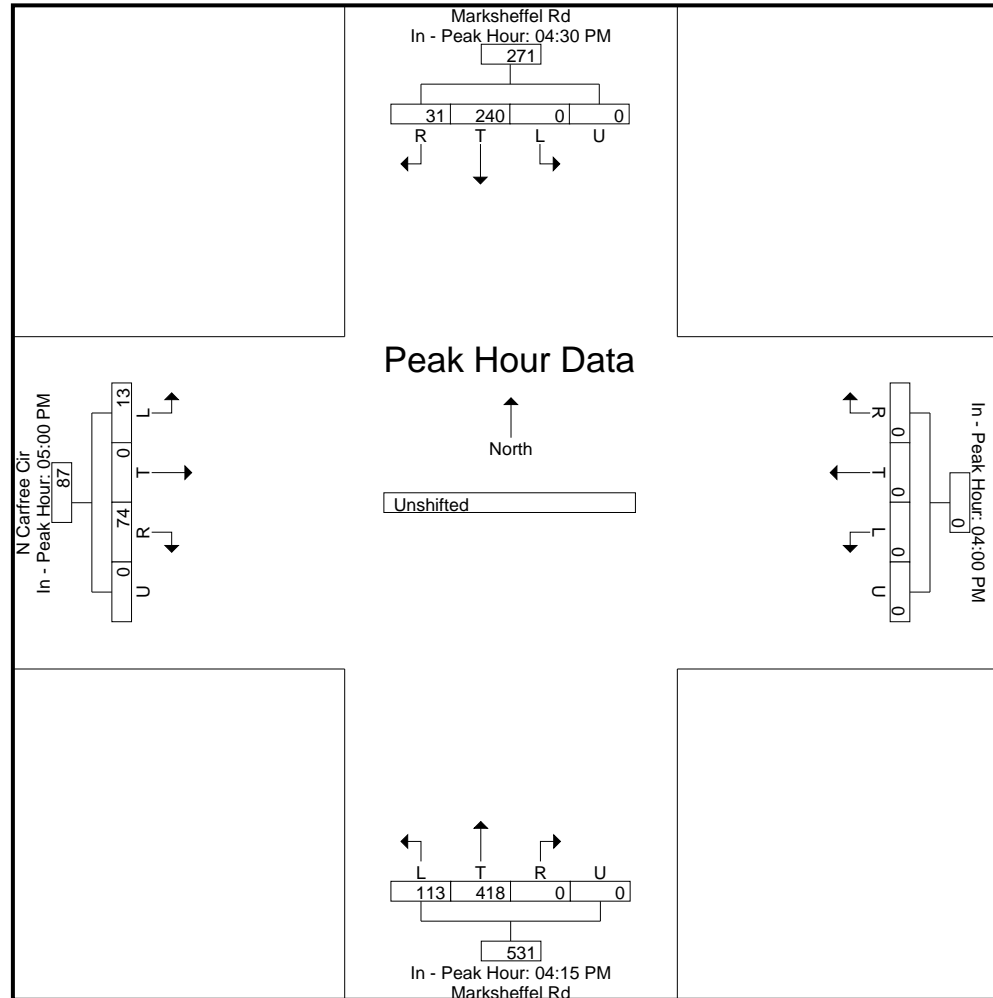
545 E Pikes Peak Ave, Suite 210
Colorado Springs, CO 80905
719-633-2868

File Name : Marksheffel Rd - N Carefree Cir PM

Site Code : 00184161

Start Date : 6/17/2021

Page No : 5



Noise Analysis Inputs/Outputs

RESULTS: SOUND LEVELS
Windermere

LSC													
KDF													
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:													
RUN:													
BARRIER DESIGN:													
ATMOSPHERICS:													
Receiver													
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
Lot 49	1	1	0.0	54.8	67	54.8	10	----	54.7	0.1	8	-7.9	
Lot 50	2	1	0.0	56.1	67	56.1	10	----	55.9	0.2	8	-7.8	
Lot 51	3	1	0.0	57.4	67	57.4	10	----	57.3	0.1	8	-7.9	
Lot 52	5	1	0.0	58.8	67	58.8	10	----	58.7	0.1	8	-7.9	
Lot 53	6	1	0.0	60.3	67	60.3	10	----	60.2	0.1	8	-7.9	
Lot 54	7	1	0.0	61.7	67	61.7	10	----	61.5	0.2	8	-7.8	
Lot 55	8	1	0.0	63.0	67	63.0	10	----	62.8	0.2	8	-7.8	
Lot 56	9	1	0.0	64.2	67	64.2	10	----	64.0	0.2	8	-7.8	
Lot 57	10	1	0.0	65.2	67	65.2	10	----	64.7	0.5	8	-7.5	
Lot 58	11	1	0.0	66.7	67	66.7	10	----	64.5	2.2	8	-5.8	
Lot 59	12	1	0.0	66.8	67	66.8	10	----	59.7	7.1	8	-0.9	
Lot 60	13	1	0.0	67.1	67	67.1	10	Snd Lvl	62.2	4.9	8	-3.1	
Lot 61	14	1	0.0	67.1	67	67.1	10	Snd Lvl	62.6	4.5	8	-3.5	
Lot 62	15	1	0.0	67.2	67	67.2	10	Snd Lvl	63.0	4.2	8	-3.8	
Lot 63	16	1	0.0	67.3	67	67.3	10	Snd Lvl	63.2	4.1	8	-3.9	
Lot 64	17	1	0.0	67.4	67	67.4	10	Snd Lvl	64.1	3.3	8	-4.7	
Lot 65	18	1	0.0	67.6	67	67.6	10	Snd Lvl	64.4	3.2	8	-4.8	
Lot 66	19	1	0.0	67.7	67	67.7	10	Snd Lvl	65.5	2.2	8	-5.8	
Lot 67	20	1	0.0	67.8	67	67.8	10	Snd Lvl	66.1	1.7	8	-6.3	
Lot 68	21	1	0.0	67.6	67	67.6	10	Snd Lvl	65.7	1.9	8	-6.1	
Lot 69	22	1	0.0	67.5	67	67.5	10	Snd Lvl	65.9	1.6	8	-6.4	
Lot 70	23	1	0.0	67.5	67	67.5	10	Snd Lvl	65.5	2.0	8	-6.0	
Lot 71	24	1	0.0	67.5	67	67.5	10	Snd Lvl	64.8	2.7	8	-5.3	
Lot 72	25	1	0.0	67.3	67	67.3	10	Snd Lvl	62.6	4.7	8	-3.3	

RESULTS: SOUND LEVELS
Windermere

Lot 73	26	1	0.0	66.9	67	66.9	10	----	61.7	5.2	8	-2.8
Lot 74	27	1	0.0	52.1	67	52.1	10	----	52.1	0.0	8	-8.0
Lot 75	28	1	0.0	52.5	67	52.5	10	----	52.4	0.1	8	-7.9
Lot 76	29	1	0.0	52.9	67	52.9	10	----	52.8	0.1	8	-7.9
Lot 77	30	1	0.0	53.2	67	53.2	10	----	53.1	0.1	8	-7.9
Lot 78	31	1	0.0	53.6	67	53.6	10	----	53.4	0.2	8	-7.8
Lot 79	32	1	0.0	54.2	67	54.2	10	----	54.0	0.2	8	-7.8
Lot 80	33	1	0.0	54.9	67	54.9	10	----	54.7	0.2	8	-7.8
Lot 81	34	1	0.0	55.9	67	55.9	10	----	55.7	0.2	8	-7.8
Lot 82	35	1	0.0	57.5	67	57.5	10	----	57.0	0.5	8	-7.5
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		34	0.0	1.7	7.1							
All Impacted		13	1.6	3.2	4.9							
All that meet NR Goal		0	0.0	0.0	0.0							

INPUT: BARRIERS

Windermere

LSC						24 June 2021															
KDF						TNM 2.5															
INPUT: BARRIERS																					
PROJECT/CONTRACT:		Windermere																			
RUN:		2040 PM Peak Hour																			
Barrier																					
Name		Type	Height		If Wall	If Berm		Add'tnl	Points												
			Min	Max	\$ per	\$ per	Top	Run:Rise	\$ per	Name	No.	Coordinates (bottom)		Height	Segment						
					Unit	Unit	Width		Unit			X	Y	Z	at	Seg Ht	Perturbs	On	Important		
					Area	Vol.			Length						Point	Incre-	#Up	#Dn	Struct?	Reflec-	
			ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft	ft	ft	ft	tions?	
Barrier5		W	0.00	99.99	0.00				0.00	point42	42	292,057.8	523,717.1	6,584.00	7.00	7.00	1	0			
										point44	44	292,057.2	523,837.6	6,585.00	7.00	7.00	1	0			
										point45	45	292,056.4	524,002.0	6,584.00	7.00	7.00	1	0			
										point46	46	292,056.2	524,067.1	6,583.00	7.00	7.00	1	0			
										point47	47	292,055.8	524,138.7	6,582.00	7.00	7.00	1	0			
										point48	48	292,055.6	524,197.7	6,581.00	7.00	7.00	1	0			
										point49	49	292,055.0	524,266.8	6,580.00	7.00	7.00	1	0			
										point50	50	292,055.0	524,328.2	6,579.00	7.00	7.00	1	0			
										point51	51	292,054.6	524,401.9	6,578.00	7.00	7.00	1	0			
										point52	52	292,054.3	524,447.8	6,577.00	7.00	7.00	1	0			
										point53	53	292,054.3	524,466.9	6,576.00	7.00	7.00	1	0			
										point54	54	292,054.2	524,485.0	6,575.00	7.00	7.00	1	0			
										point55	55	292,054.2	524,508.9	6,574.00	7.00	7.00	1	0			
										point61	61	292,054.2	524,527.2	6,573.00	7.00	7.00	1	0			
										point56	56	292,053.9	524,544.5	6,572.00	7.00						

INPUT: TRAFFIC FOR LAeq1h Volumes
Windermere

LSC			24 June 2021										
KDF			TNM 2.5										
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	Windermere												
RUN:	2040 PM Peak Hour												
Roadway	Points												
Name	Name	No.	Segment										
			Autos		MTrucks		HTrucks		Buses		Motorcycles		
			V	S	V	S	V	S	V	S	V	S	
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
N Carefree W/O A.R. WB Accel	point1	1	81	35	2	35	1	35	0	0	0	0	
	point2	2											
N Carefree W/O A.R. WB #3	point3	3	422	35	9	35	4	35	0	0	0	0	
	point4	4											
N Carefree W/O A.R. WB #2	point5	5	422	35	9	35	4	35	0	0	0	0	
	point6	6											
N Carefree W/O A.R. WB #1	point7	7	422	35	9	35	4	35	0	0	0	0	
	point8	8											
N Carefree W/O A.R. EB LT	point11	11	162	35	3	35	2	35	0	0	0	0	
	point12	12											
N Carefree W/O A.R. EB #1	point13	13	501	35	10	35	5	35	0	0	0	0	
	point14	14											
N Carefree W/O A.R. EB #2	point15	15	501	35	10	35	5	35	0	0	0	0	
	point16	16											
N Carefree W/O A.R. EB #3	point17	17	501	35	10	35	5	35	0	0	0	0	
	point18	18											
N Carefree E/O A.R. WB Decel	point19	19	227	35	5	35	2	35	0	0	0	0	
	point20	20	227	35	5	35	2	35	0	0	0	0	
	point21	21	227	35	5	35	2	35	0	0	0	0	
	point22	22											
N Carefree E/O A.R. WB #3	point23	23	422	35	9	35	4	35	0	0	0	0	
	point24	24	422	35	9	35	4	35	0	0	0	0	
	point25	25	422	35	9	35	4	35	0	0	0	0	

INPUT: TRAFFIC FOR LAeq1h Volumes
Windermere

	point26	26	422	35	9	35	4	35	0	0	0	0
	point27	27	422	35	9	35	4	35	0	0	0	0
	point28	28	422	35	9	35	4	35	0	0	0	0
	point29	29	422	35	9	35	4	35	0	0	0	0
	point30	30	422	35	9	35	4	35	0	0	0	0
	point31	31	422	35	9	35	4	35	0	0	0	0
	point32	32	422	35	9	35	4	35	0	0	0	0
	point33	33	422	35	9	35	4	35	0	0	0	0
	point34	34	422	35	9	35	4	35	0	0	0	0
	point35	35	422	35	9	35	4	35	0	0	0	0
	point36	36	422	35	9	35	4	35	0	0	0	0
	point37	37	422	35	9	35	4	35	0	0	0	0
	point38	38	422	35	9	35	4	35	0	0	0	0
	point39	39	422	35	9	35	4	35	0	0	0	0
	point40	40										
N Carefree E/O A.R. WB #2	point41	41	422	35	9	35	4	35	0	0	0	0
	point42	42	422	35	9	35	4	35	0	0	0	0
	point43	43	422	35	9	35	4	35	0	0	0	0
	point44	44	422	35	9	35	4	35	0	0	0	0
	point45	45	422	35	9	35	4	35	0	0	0	0
	point46	46	422	35	9	35	4	35	0	0	0	0
	point47	47	422	35	9	35	4	35	0	0	0	0
	point48	48	422	35	9	35	4	35	0	0	0	0
	point49	49	422	35	9	35	4	35	0	0	0	0
	point50	50	422	35	9	35	4	35	0	0	0	0
	point51	51	422	35	9	35	4	35	0	0	0	0
	point52	52	422	35	9	35	4	35	0	0	0	0
	point53	53	422	35	9	35	4	35	0	0	0	0
	point54	54	422	35	9	35	4	35	0	0	0	0
	point55	55	422	35	9	35	4	35	0	0	0	0
	point56	56	422	35	9	35	4	35	0	0	0	0
	point57	57	422	35	9	35	4	35	0	0	0	0
	point58	58										
N Carefree E/O A.R. WB #1	point59	59	422	35	9	35	4	35	0	0	0	0
	point60	60	422	35	9	35	4	35	0	0	0	0
	point61	61	422	35	9	35	4	35	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes
Windermere

	point62	62	422	35	9	35	4	35	0	0	0	0
	point63	63	422	35	9	35	4	35	0	0	0	0
	point64	64	422	35	9	35	4	35	0	0	0	0
	point65	65	422	35	9	35	4	35	0	0	0	0
	point66	66	422	35	9	35	4	35	0	0	0	0
	point67	67	422	35	9	35	4	35	0	0	0	0
	point68	68	422	35	9	35	4	35	0	0	0	0
	point69	69	422	35	9	35	4	35	0	0	0	0
	point70	70	422	35	9	35	4	35	0	0	0	0
	point71	71	422	35	9	35	4	35	0	0	0	0
	point72	72	422	35	9	35	4	35	0	0	0	0
	point73	73	422	35	9	35	4	35	0	0	0	0
	point74	74	422	35	9	35	4	35	0	0	0	0
	point75	75	422	35	9	35	4	35	0	0	0	0
	point76	76										
N Carefree E/O A.R. EB LT	point77	77	187	35	4	35	2	35	0	0	0	0
	point78	78	187	35	4	35	2	35	0	0	0	0
	point79	79	187	35	4	35	2	35	0	0	0	0
	point80	80	187	35	4	35	2	35	0	0	0	0
	point81	81										
N Carefree E/O A.R. EB#1	point82	82	190	35	4	35	2	35	0	0	0	0
	point136	136	190	35	4	35	2	35	0	0	0	0
	point83	83	190	35	4	35	2	35	0	0	0	0
	point84	84	190	35	4	35	2	35	0	0	0	0
	point85	85	190	35	4	35	2	35	0	0	0	0
	point86	86	190	35	4	35	2	35	0	0	0	0
	point87	87	190	35	4	35	2	35	0	0	0	0
	point88	88	190	35	4	35	2	35	0	0	0	0
	point89	89	190	35	4	35	2	35	0	0	0	0
	point90	90	190	35	4	35	2	35	0	0	0	0
	point91	91	190	35	4	35	2	35	0	0	0	0
	point92	92	190	35	4	35	2	35	0	0	0	0
	point93	93	190	35	4	35	2	35	0	0	0	0
	point94	94	190	35	4	35	2	35	0	0	0	0
	point95	95	190	35	4	35	2	35	0	0	0	0
	point96	96	190	35	4	35	2	35	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes
Windermere

	point97	97										
N Carefree E/O A.R. EB#2	point98	98	190	35	4	35	2	35	0	0	0	0
	point137	137	190	35	4	35	2	35	0	0	0	0
	point99	99	190	35	4	35	2	35	0	0	0	0
	point100	100	190	35	4	35	2	35	0	0	0	0
	point101	101	190	35	4	35	2	35	0	0	0	0
	point102	102	190	35	4	35	2	35	0	0	0	0
	point103	103	190	35	4	35	2	35	0	0	0	0
	point104	104	190	35	4	35	2	35	0	0	0	0
	point105	105	190	35	4	35	2	35	0	0	0	0
	point106	106	190	35	4	35	2	35	0	0	0	0
	point107	107	190	35	4	35	2	35	0	0	0	0
	point108	108	190	35	4	35	2	35	0	0	0	0
	point109	109	190	35	4	35	2	35	0	0	0	0
	point110	110	0	35	4	35	2	35	0	0	0	0
	point111	111	190	35	4	35	2	35	0	0	0	0
	point112	112	190	35	4	35	2	35	0	0	0	0
	point113	113										
N Carefree E/O A.R. EB#3	point114	114	190	35	4	35	2	35	0	0	0	0
	point115	115	190	35	4	35	2	35	0	0	0	0
	point116	116	190	35	4	35	2	35	0	0	0	0
	point117	117	190	35	4	35	2	35	0	0	0	0
	point118	118	190	35	4	35	2	35	0	0	0	0
	point119	119	190	35	4	35	2	35	0	0	0	0
	point120	120	190	35	4	35	2	35	0	0	0	0
	point121	121	190	35	4	35	2	35	0	0	0	0
	point122	122	190	35	4	35	2	35	0	0	0	0
	point123	123	190	35	4	35	2	35	0	0	0	0
	point124	124	190	35	4	35	2	35	0	0	0	0
	point125	125	190	35	4	35	2	35	0	0	0	0
	point126	126	190	35	4	35	2	35	0	0	0	0
	point127	127	190	35	4	35	2	35	0	0	0	0
	point128	128	190	35	4	35	2	35	0	0	0	0
	point129	129	190	35	4	35	2	35	0	0	0	0
	point130	130										
N Carefree E/O A.R. EB RT	point131	131	836	35	17	35	9	35	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes
Windermere

	point132	132	836	35	17	35	9	35	0	0	0	0
	point133	133	836	35	17	35	9	35	0	0	0	0
	point134	134	836	35	17	35	9	35	0	0	0	0
	point135	135										
Marksheffel N/O N.C. SB Decel	point138	138	216	35	4	35	2	35	0	0	0	0
	point139	139	216	35	4	35	2	35	0	0	0	0
	point140	140	216	35	4	35	2	35	0	0	0	0
	point141	141	216	35	4	35	2	35	0	0	0	0
	point142	142										
Marksheffel N/O N.C. SB #2	point143	143	489	50	10	50	5	50	0	0	0	0
	point144	144	489	50	10	50	5	50	0	0	0	0
	point145	145	489	50	10	50	5	50	0	0	0	0
	point146	146	489	50	10	50	5	50	0	0	0	0
	point147	147	489	50	10	50	5	50	0	0	0	0
	point148	148	489	50	10	50	5	50	0	0	0	0
	point149	149	489	50	10	50	5	50	0	0	0	0
	point150	150	489	50	10	50	5	50	0	0	0	0
	point151	151	489	50	10	50	5	50	0	0	0	0
	point152	152	489	50	10	50	5	50	0	0	0	0
	point153	153	489	50	10	50	5	50	0	0	0	0
	point154	154	489	50	10	50	5	50	0	0	0	0
	point155	155	489	50	10	50	5	50	0	0	0	0
	point156	156	489	50	10	50	5	50	0	0	0	0
	point157	157	489	50	10	50	5	50	0	0	0	0
	point158	158	489	50	10	50	5	50	0	0	0	0
	point159	159	489	50	10	50	5	50	0	0	0	0
	point160	160	489	50	10	50	5	50	0	0	0	0
	point161	161	489	50	10	50	5	50	0	0	0	0
	point162	162	489	50	10	50	5	50	0	0	0	0
	point163	163	489	50	10	50	5	50	0	0	0	0
	point164	164	489	50	10	50	5	50	0	0	0	0
	point165	165	489	50	10	50	5	50	0	0	0	0
	point166	166	489	50	10	50	5	50	0	0	0	0
	point167	167	489	50	10	50	5	50	0	0	0	0
	point168	168	489	50	10	50	5	50	0	0	0	0
	point169	169	489	50	10	50	5	50	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes
Windermere

	point170	170	489	50	10	50	5	50	0	0	0	0
	point171	171	489	50	10	50	5	50	0	0	0	0
	point172	172	489	50	10	50	5	50	0	0	0	0
	point173	173	489	50	10	50	5	50	0	0	0	0
	point174	174	489	50	10	50	5	50	0	0	0	0
	point175	175										
Marksheffel N/O N.C. SB #1	point176	176	623	50	13	50	6	50	0	0	0	0
	point177	177	623	50	13	50	6	50	0	0	0	0
	point178	178	623	50	13	50	6	50	0	0	0	0
	point179	179	623	50	13	50	6	50	0	0	0	0
	point180	180	623	50	13	50	6	50	0	0	0	0
	point181	181	623	50	13	50	6	50	0	0	0	0
	point182	182	623	50	13	50	6	50	0	0	0	0
	point183	183	623	50	13	50	6	50	0	0	0	0
	point184	184	623	50	13	50	6	50	0	0	0	0
	point185	185	623	50	13	50	6	50	0	0	0	0
	point186	186	623	50	13	50	6	50	0	0	0	0
	point187	187	623	50	13	50	6	50	0	0	0	0
	point188	188	623	50	13	50	6	50	0	0	0	0
	point189	189	623	50	13	50	6	50	0	0	0	0
	point190	190	623	50	13	50	6	50	0	0	0	0
	point191	191	623	50	13	50	6	50	0	0	0	0
	point192	192	623	50	13	50	6	50	0	0	0	0
	point193	193	623	50	13	50	6	50	0	0	0	0
	point194	194	623	50	13	50	6	50	0	0	0	0
	point195	195	623	50	13	50	6	50	0	0	0	0
	point196	196	623	50	13	50	6	50	0	0	0	0
	point197	197	623	50	13	50	6	50	0	0	0	0
	point198	198	623	50	13	50	6	50	0	0	0	0
	point199	199	623	50	13	50	6	50	0	0	0	0
	point200	200	623	50	13	50	6	50	0	0	0	0
	point201	201	623	50	13	50	6	50	0	0	0	0
	point202	202	623	50	13	50	6	50	0	0	0	0
	point203	203	623	50	13	50	6	50	0	0	0	0
	point204	204	623	50	13	50	6	50	0	0	0	0
	point205	205	623	50	13	50	6	50	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes
Windermere

	point206	206	623	50	13	50	6	50	0	0	0	0
	point207	207										
Marksheffel N/O N.C. NB #1	point248	248	879	50	18	50	9	50	0	0	0	0
	point249	249	879	50	18	50	9	50	0	0	0	0
	point250	250	879	50	18	50	9	50	0	0	0	0
	point251	251	879	50	18	50	9	50	0	0	0	0
	point252	252	879	50	18	50	9	50	0	0	0	0
	point253	253	879	50	18	50	9	50	0	0	0	0
	point254	254	879	50	18	50	9	50	0	0	0	0
	point255	255	879	50	18	50	9	50	0	0	0	0
	point256	256	879	50	18	50	9	50	0	0	0	0
	point257	257	879	50	18	50	9	50	0	0	0	0
	point258	258	879	50	18	50	9	50	0	0	0	0
	point259	259	879	50	18	50	9	50	0	0	0	0
	point260	260	879	50	18	50	9	50	0	0	0	0
	point261	261	879	50	18	50	9	50	0	0	0	0
	point262	262	879	50	18	50	9	50	0	0	0	0
	point263	263	879	50	18	50	9	50	0	0	0	0
	point264	264	879	50	18	50	9	50	0	0	0	0
	point265	265	879	50	18	50	9	50	0	0	0	0
	point266	266	879	50	18	50	9	50	0	0	0	0
	point267	267	879	50	18	50	9	50	0	0	0	0
	point268	268	879	50	18	50	9	50	0	0	0	0
	point269	269	879	50	18	50	9	50	0	0	0	0
	point270	270	879	50	18	50	9	50	0	0	0	0
	point271	271	879	50	18	50	9	50	0	0	0	0
	point272	272	879	50	18	50	9	50	0	0	0	0
	point273	273	879	50	18	50	9	50	0	0	0	0
	point274	274	879	50	18	50	9	50	0	0	0	0
	point275	275	879	50	18	50	9	50	0	0	0	0
	point276	276	879	50	18	50	9	50	0	0	0	0
	point277	277	879	50	18	50	9	50	0	0	0	0
	point278	278	879	50	18	50	9	50	0	0	0	0
	point279	279	879	50	18	50	9	50	0	0	0	0
	point280	280	879	50	18	50	9	50	0	0	0	0
	point281	281	879	50	18	50	9	50	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes
Windermere

	point282	282	879	50	18	50	9	50	0	0	0	0
	point283	283	879	50	18	50	9	50	0	0	0	0
	point284	284	879	50	18	50	9	50	0	0	0	0
	point285	285	879	50	18	50	9	50	0	0	0	0
	point286	286										
Marksheffel N/O N.C. NB #2	point287	287	879	50	18	50	9	50	0	0	0	0
	point288	288	879	50	18	50	9	50	0	0	0	0
	point289	289	879	50	18	50	9	50	0	0	0	0
	point290	290	879	50	18	50	9	50	0	0	0	0
	point291	291	879	50	18	50	9	50	0	0	0	0
	point292	292	879	50	18	50	9	50	0	0	0	0
	point293	293	879	50	18	50	9	50	0	0	0	0
	point294	294	879	50	18	50	9	50	0	0	0	0
	point295	295	879	50	18	50	9	50	0	0	0	0
	point296	296	879	50	18	50	9	50	0	0	0	0
	point297	297	879	50	18	50	9	50	0	0	0	0
	point298	298	879	50	18	50	9	50	0	0	0	0
	point299	299	879	50	18	50	9	50	0	0	0	0
	point300	300	879	50	18	50	9	50	0	0	0	0
	point301	301	879	50	18	50	9	50	0	0	0	0
	point302	302	879	50	18	50	9	50	0	0	0	0
	point303	303	879	50	18	50	9	50	0	0	0	0
	point304	304	879	50	18	50	9	50	0	0	0	0
	point305	305	879	50	18	50	9	50	0	0	0	0
	point306	306	879	50	18	50	9	50	0	0	0	0
	point307	307	879	50	18	50	9	50	0	0	0	0
	point308	308	879	50	18	50	9	50	0	0	0	0
	point309	309	879	50	18	50	9	50	0	0	0	0
	point310	310	879	50	18	50	9	50	0	0	0	0
	point311	311	879	50	18	50	9	50	0	0	0	0
	point312	312	879	50	18	50	9	50	0	0	0	0
	point313	313	879	50	18	50	9	50	0	0	0	0
	point314	314	879	50	18	50	9	50	0	0	0	0
	point315	315	879	50	18	50	9	50	0	0	0	0
	point316	316	879	50	18	50	9	50	0	0	0	0
	point317	317	879	50	18	50	9	50	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes
Windermere

	point318	318	879	50	18	50	9	50	0	0	0	0
	point319	319	879	50	18	50	9	50	0	0	0	0
	point320	320	879	50	18	50	9	50	0	0	0	0
	point321	321	879	50	18	50	9	50	0	0	0	0
	point322	322	879	50	18	50	9	50	0	0	0	0
	point323	323	879	50	18	50	9	50	0	0	0	0
	point324	324										
Marksheffel S/O N.C. SB Accel	point325	325	836	35	17	35	9	35	0	0	0	0
	point326	326										
Marksheffel S/O N.C. SB #2	point327	327	513	50	11	50	5	50	0	0	0	0
	point328	328	513	50	11	50	5	50	0	0	0	0
	point329	329										
Marksheffel S/O N.C. SB #1	point330	330	513	50	11	50	5	50	0	0	0	0
	point331	331	513	50	11	50	5	50	0	0	0	0
	point332	332										
Marksheffel S/O N.C. NB LT	point333	333	877	35	18	35	9	35	0	0	0	0
	point334	334	877	35	18	35	9	35	0	0	0	0
	point335	335										
Marksheffel S/O N.C. NB #1	point336	336	743	50	15	50	8	50	0	0	0	0
	point337	337	743	50	15	50	8	50	0	0	0	0
	point338	338										
Marksheffel S/O N.C. NB #2	point339	339	816	50	17	50	8	50	0	0	0	0
	point340	340	816	50	17	50	8	50	0	0	0	0
	point341	341										

INPUT: ROADWAYS
Windermere

LSC											
KDF											
INPUT: ROADWAYS				24 June 2021							
PROJECT/CONTRACT:				TNM 2.5							
RUN:											
Windermere											
2040 PM Peak Hour											
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA											
Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)		Flow Control			Segment		
				X	Y	Z	Control	Speed	Percent	Pvmt	On
							Device	Constraint	Vehicles	Type	Struct?
									Affected		
	ft			ft	ft	ft		mph	%		
N Carefree W/O A.R. WB Accel	12.0	point1	1	291,134.9	523,081.3	6,598.00	Signal	0.00	50	Average	
		point2	2	291,048.9	523,079.4	6,600.00					
N Carefree W/O A.R. WB #3	12.0	point3	3	291,143.4	523,069.9	6,598.00	Signal	0.00	50	Average	
		point4	4	291,065.9	523,068.0	6,600.00					
N Carefree W/O A.R. WB #2	12.0	point5	5	291,151.0	523,056.7	6,598.00	Signal	0.00	50	Average	
		point6	6	291,075.3	523,056.7	6,600.00					
N Carefree W/O A.R. WB #1	12.0	point7	7	291,156.7	523,044.4	6,598.00	Signal	0.00	50	Average	
		point8	8	291,084.8	523,044.4	6,600.00					
N Carefree W/O A.R. EB LT	12.0	point11	11	291,091.4	523,026.4	6,598.00				Average	
		point12	12	291,154.8	523,026.4	6,600.00					
N Carefree W/O A.R. EB #1	12.0	point13	13	291,082.9	523,013.2	6,600.00				Average	
		point14	14	291,147.2	523,014.1	6,598.00					
N Carefree W/O A.R. EB #2	12.0	point15	15	291,073.5	522,999.0	6,600.00				Average	
		point16	16	291,137.8	523,000.9	6,598.00					
N Carefree W/O A.R. EB #3	12.0	point17	17	291,070.6	522,990.5	6,600.00				Average	
		point18	18	291,122.7	522,989.5	6,598.00					
N Carefree E/O A.R. WB Decel	12.0	point19	19	291,366.7	523,113.4	6,590.50				Average	
		point20	20	291,299.5	523,098.3	6,592.00				Average	
		point21	21	291,242.8	523,087.9	6,594.00				Average	
		point22	22	291,192.6	523,083.2	6,596.00					
N Carefree E/O A.R. WB #3	12.0	point23	23	292,113.2	523,222.0	6,570.50	Signal	0.00	50	Average	
		point24	24	292,058.2	523,220.8	6,568.00				Average	
		point25	25	291,912.6	523,220.2	6,568.00				Average	
		point26	26	291,858.2	523,220.2	6,570.00				Average	
		point27	27	291,813.8	523,217.1	6,572.00				Average	

INPUT: ROADWAYS
Windermere

		point28	28	291,775.5	523,214.6	6,574.00				Average	
		point29	29	291,736.6	523,210.3	6,576.00				Average	
		point30	30	291,697.1	523,202.2	6,578.00				Average	
		point31	31	291,658.2	523,194.2	6,580.00				Average	
		point32	32	291,621.2	523,185.0	6,582.00				Average	
		point33	33	291,576.8	523,172.0	6,584.00				Average	
		point34	34	291,525.5	523,154.1	6,586.00				Average	
		point35	35	291,462.5	523,131.9	6,588.00				Average	
		point36	36	291,399.6	523,109.0	6,590.00				Average	
		point37	37	291,310.7	523,088.7	6,592.00				Average	
		point38	38	291,248.9	523,077.6	6,594.00				Average	
		point39	39	291,198.3	523,074.5	6,596.00				Average	
		point40	40	291,145.2	523,072.0	6,598.00					
N Carefree E/O A.R. WB #2	12.0	point41	41	292,112.0	523,209.7	6,570.50	Signal	0.00	50	Average	
		point42	42	292,064.4	523,209.7	6,568.00				Average	
		point43	43	291,918.1	523,208.4	6,568.00				Average	
		point44	44	291,863.8	523,208.4	6,570.00				Average	
		point45	45	291,820.0	523,206.6	6,572.00				Average	
		point46	46	291,781.1	523,203.5	6,574.00				Average	
		point47	47	291,743.4	523,197.9	6,576.00				Average	
		point48	48	291,704.5	523,192.4	6,578.00				Average	
		point49	49	291,668.7	523,183.7	6,580.00				Average	
		point50	50	291,629.8	523,175.1	6,582.00				Average	
		point51	51	291,585.4	523,160.9	6,584.00				Average	
		point52	52	291,535.4	523,145.5	6,586.00				Average	
		point53	53	291,474.9	523,121.4	6,588.00				Average	
		point54	54	291,410.1	523,099.2	6,590.00				Average	
		point55	55	291,320.5	523,078.2	6,592.00				Average	
		point56	56	291,256.3	523,067.7	6,594.00				Average	
		point57	57	291,205.7	523,061.5	6,596.00				Average	
		point58	58	291,152.6	523,059.7	6,598.00					
N Carefree E/O A.R. WB #1	12.0	point59	59	292,112.6	523,196.7	6,570.50	Signal	0.00	50	Average	
		point60	60	292,076.2	523,197.3	6,568.00				Average	
		point61	61	291,924.9	523,196.1	6,568.00				Average	
		point62	62	291,868.8	523,196.1	6,570.00				Average	
		point63	63	291,823.7	523,194.8	6,572.00				Average	
		point64	64	291,789.7	523,191.8	6,574.00				Average	
		point65	65	291,752.1	523,186.8	6,576.00				Average	
		point66	66	291,712.6	523,181.2	6,578.00				Average	

INPUT: ROADWAYS
Windermere

		point67	67	291,675.5	523,173.2	6,580.00				Average	
		point68	68	291,637.2	523,164.6	6,582.00				Average	
		point69	69	291,592.2	523,151.6	6,584.00				Average	
		point70	70	291,544.6	523,135.6	6,586.00				Average	
		point71	71	291,487.2	523,114.6	6,588.00				Average	
		point72	72	291,419.3	523,089.3	6,590.00				Average	
		point73	73	291,329.8	523,066.4	6,592.00				Average	
		point74	74	291,263.1	523,055.3	6,594.00				Average	
		point75	75	291,212.5	523,050.4	6,596.00				Average	
		point76	76	291,156.9	523,046.7	6,598.00					
N Carefree E/O A.R. EB LT	12.0	point77	77	291,793.4	523,174.5	6,574.00				Average	
		point78	78	291,829.8	523,177.6	6,572.00				Average	
		point79	79	291,871.2	523,179.4	6,570.00				Average	
		point80	80	291,932.3	523,178.2	6,568.00				Average	
		point81	81	292,104.6	523,180.0	6,568.00					
N Carefree E/O A.R. EB#1	12.0	point82	82	291,150.8	523,014.6	6,598.00	Signal	0.00	50	Average	
		point136	136	291,212.8	523,018.6	6,596.00				Average	
		point83	83	291,265.6	523,023.8	6,594.00				Average	
		point84	84	291,334.8	523,036.8	6,592.00				Average	
		point85	85	291,429.8	523,059.7	6,590.00				Average	
		point86	86	291,503.3	523,086.8	6,588.00				Average	
		point87	87	291,558.8	523,107.2	6,586.00				Average	
		point88	88	291,603.3	523,121.4	6,584.00				Average	
		point89	89	291,645.3	523,135.0	6,582.00				Average	
		point90	90	291,683.5	523,143.6	6,580.00				Average	
		point91	91	291,717.5	523,150.4	6,578.00				Average	
		point92	92	291,755.8	523,155.3	6,576.00				Average	
		point93	93	291,789.7	523,159.7	6,574.00				Average	
		point94	94	291,825.5	523,162.8	6,572.00				Average	
		point95	95	291,867.5	523,165.2	6,570.00				Average	
		point96	96	291,924.9	523,164.6	6,568.00				Average	
		point97	97	292,110.8	523,167.1	6,568.00					
N Carefree E/O A.R. EB#2	12.0	point98	98	291,139.7	523,001.0	6,598.00	Signal	0.00	50	Average	
		point137	137	291,207.9	523,006.8	6,596.00				Average	
		point99	99	291,263.8	523,012.7	6,594.00				Average	
		point100	100	291,330.4	523,023.2	6,592.00				Average	
		point101	101	291,425.5	523,046.7	6,590.00				Average	
		point102	102	291,497.7	523,071.4	6,588.00				Average	
		point103	103	291,557.6	523,094.2	6,586.00				Average	

INPUT: ROADWAYS
Windermere

		point104	104	291,604.5	523,109.0	6,584.00				Average	
		point105	105	291,645.9	523,120.8	6,582.00				Average	
		point106	106	291,683.5	523,131.2	6,580.00				Average	
		point107	107	291,716.2	523,138.7	6,578.00				Average	
		point108	108	291,752.7	523,144.2	6,576.00				Average	
		point109	109	291,786.6	523,148.5	6,574.00				Average	
		point110	110	291,821.2	523,151.6	6,572.00				Average	
		point111	111	291,861.9	523,154.7	6,570.00				Average	
		point112	112	291,916.9	523,154.1	6,568.00				Average	
		point113	113	292,110.1	523,154.1	6,568.00					
N Carefree E/O A.R. EB#3	12.0	point114	114	291,126.1	522,991.1	6,598.00	Signal	0.00	50	Average	
		point115	115	291,199.6	522,993.6	6,596.00				Average	
		point116	116	291,260.1	522,999.8	6,594.00				Average	
		point117	117	291,323.0	523,009.0	6,592.00				Average	
		point118	118	291,424.2	523,033.1	6,590.00				Average	
		point119	119	291,495.2	523,057.2	6,588.00				Average	
		point120	120	291,558.2	523,081.9	6,586.00				Average	
		point121	121	291,605.8	523,097.9	6,584.00				Average	
		point122	122	291,643.4	523,109.7	6,582.00				Average	
		point123	123	291,682.3	523,118.9	6,580.00				Average	
		point124	124	291,716.9	523,126.3	6,578.00				Average	
		point125	125	291,753.3	523,132.5	6,576.00				Average	
		point126	126	291,783.6	523,136.2	6,574.00				Average	
		point127	127	291,818.8	523,138.1	6,572.00				Average	
		point128	128	291,855.2	523,141.8	6,570.00				Average	
		point129	129	291,907.0	523,142.4	6,568.00				Average	
		point130	130	292,110.1	523,143.0	6,568.00					
N Carefree E/O A.R. EB RT	12.0	point131	131	291,903.3	523,129.4	6,568.00				Average	
		point132	132	292,020.0	523,128.2	6,566.00				Average	
		point133	133	292,058.2	523,115.8	6,565.50				Average	
		point134	134	292,087.9	523,091.1	6,565.50				Average	
		point135	135	292,100.2	523,068.3	6,565.00					
Marksheffel N/O N.C. SB Decel	12.0	point138	138	292,107.6	523,394.8	6,574.00				Average	
		point139	139	292,107.1	523,331.4	6,572.00				Average	
		point140	140	292,093.5	523,271.7	6,570.00				Average	
		point141	141	292,049.5	523,238.7	6,568.00				Average	
		point142	142	292,023.8	523,234.0	6,568.00					
Marksheffel N/O N.C. SB #2	12.0	point143	143	292,119.5	525,585.8	6,606.00				Average	
		point144	144	292,119.5	525,518.2	6,604.00				Average	

INPUT: ROADWAYS
Windermere

		point145	145	292,119.5	525,461.4	6,602.00				Average	
		point146	146	292,119.5	525,398.1	6,600.00				Average	
		point147	147	292,119.5	525,360.2	6,598.00				Average	
		point148	148	292,119.5	525,307.5	6,596.00				Average	
		point149	149	292,119.5	525,237.9	6,594.00				Average	
		point150	150	292,119.5	525,178.9	6,592.00				Average	
		point151	151	292,119.5	525,134.6	6,590.00				Average	
		point152	152	292,119.5	525,098.8	6,588.00				Average	
		point153	153	292,119.5	525,054.5	6,586.00				Average	
		point154	154	292,119.5	525,020.8	6,584.00				Average	
		point155	155	292,119.5	524,978.6	6,582.00				Average	
		point156	156	292,119.5	524,938.6	6,580.00				Average	
		point157	157	292,119.5	524,898.6	6,578.00				Average	
		point158	158	292,119.5	524,858.5	6,576.00				Average	
		point159	159	292,119.5	524,812.1	6,574.00				Average	
		point160	160	292,119.5	524,772.1	6,572.00				Average	
		point161	161	292,119.5	524,734.1	6,570.00				Average	
		point162	162	292,119.5	524,656.1	6,568.00				Average	
		point163	163	292,121.6	524,544.4	6,568.00				Average	
		point164	164	292,120.3	524,490.6	6,570.00				Average	
		point165	165	292,119.5	524,451.6	6,572.00				Average	
		point166	166	292,119.5	524,405.2	6,574.00				Average	
		point167	167	292,119.5	524,276.7	6,576.00				Average	
		point168	168	292,119.5	524,046.9	6,576.00				Average	
		point169	169	292,121.6	523,939.4	6,578.00				Average	
		point170	170	292,121.6	523,560.0	6,578.00				Average	
		point171	171	292,117.4	523,463.0	6,576.00				Average	
		point172	172	292,119.5	523,385.0	6,574.00				Average	
		point173	173	292,117.4	523,315.4	6,572.00				Average	
		point174	174	292,117.4	523,233.2	6,570.00				Average	
		point175	175	292,119.5	523,165.8	6,568.00					
Marksheffel N/O N.C. SB #1	12.0	point176	176	292,132.2	525,594.2	6,606.00				Average	
		point177	177	292,130.0	525,520.4	6,604.00				Average	
		point178	178	292,132.2	525,465.6	6,602.00				Average	
		point179	179	292,132.2	525,404.4	6,600.00				Average	
		point180	180	292,132.2	525,347.6	6,598.00				Average	
		point181	181	292,132.2	525,290.6	6,596.00				Average	
		point182	182	292,132.2	525,235.8	6,594.00				Average	
		point183	183	292,132.2	525,185.2	6,592.00				Average	

INPUT: ROADWAYS
Windermere

		point184	184	292,132.2	525,134.6	6,590.00				Average	
		point185	185	292,132.2	525,100.9	6,588.00				Average	
		point186	186	292,132.2	525,062.9	6,586.00				Average	
		point187	187	292,132.2	525,020.8	6,584.00				Average	
		point188	188	292,132.2	524,980.8	6,582.00				Average	
		point189	189	292,132.2	524,947.0	6,580.00				Average	
		point190	190	292,132.2	524,909.1	6,578.00				Average	
		point191	191	292,132.2	524,871.1	6,576.00				Average	
		point192	192	292,132.2	524,826.9	6,574.00				Average	
		point193	193	292,132.2	524,769.9	6,572.00				Average	
		point194	194	292,132.2	524,729.9	6,570.00				Average	
		point195	195	292,132.2	524,649.8	6,568.00				Average	
		point196	196	292,132.2	524,508.6	6,568.00				Average	
		point197	197	292,132.2	524,464.3	6,570.00				Average	
		point198	198	292,132.2	524,426.4	6,572.00				Average	
		point199	199	292,132.2	524,240.8	6,576.00				Average	
		point200	200	292,132.2	524,099.6	6,576.00				Average	
		point201	201	292,132.2	523,954.2	6,578.00				Average	
		point202	202	292,132.2	523,549.4	6,578.00				Average	
		point203	203	292,132.2	523,454.6	6,576.00				Average	
		point204	204	292,132.2	523,378.7	6,574.00				Average	
		point205	205	292,132.2	523,304.9	6,572.00				Average	
		point206	206	292,132.2	523,229.0	6,570.00				Average	
		point207	207	292,132.2	523,167.9	6,568.00					
Marksheffel N/O N.C. NB #1	12.0	point248	248	292,199.0	523,165.9	6,568.00	Signal	0.00	50	Average	
		point249	249	292,199.0	523,220.6	6,570.00				Average	
		point250	250	292,199.0	523,307.3	6,572.00				Average	
		point251	251	292,197.1	523,378.9	6,574.00				Average	
		point252	252	292,196.4	523,458.9	6,576.00				Average	
		point253	253	292,197.1	523,533.4	6,578.00				Average	
		point254	254	292,199.0	523,917.8	6,578.00				Average	
		point255	255	292,199.0	523,998.9	6,576.00				Average	
		point256	256	292,199.0	524,081.8	6,574.00				Average	
		point257	257	292,197.1	524,166.6	6,572.00				Average	
		point258	258	292,199.0	524,338.1	6,570.00				Average	
		point259	259	292,199.0	524,460.6	6,568.00				Average	
		point260	260	292,197.1	524,511.4	6,566.00				Average	
		point261	261	292,197.1	524,549.1	6,566.00				Average	
		point262	262	292,197.1	524,584.9	6,564.00				Average	

INPUT: ROADWAYS
Windermere

		point263	263	292,197.1	524,598.1	6,566.00				Average	
		point264	264	292,197.1	524,677.3	6,568.00				Average	
		point265	265	292,199.0	524,720.6	6,570.00				Average	
		point266	266	292,199.0	524,752.7	6,572.00				Average	
		point267	267	292,197.1	524,782.8	6,574.00				Average	
		point268	268	292,197.1	524,814.9	6,576.00				Average	
		point269	269	292,197.1	524,848.8	6,578.00				Average	
		point270	270	292,197.1	524,886.5	6,580.00				Average	
		point271	271	292,199.0	524,916.6	6,582.00				Average	
		point272	272	292,200.9	524,950.6	6,584.00				Average	
		point273	273	292,199.0	524,990.1	6,586.00				Average	
		point274	274	292,199.0	525,025.9	6,588.00				Average	
		point275	275	292,199.0	525,056.1	6,590.00				Average	
		point276	276	292,199.0	525,090.0	6,592.00				Average	
		point277	277	292,199.0	525,137.1	6,594.00				Average	
		point278	278	292,197.1	525,180.4	6,596.00				Average	
		point279	279	292,197.1	525,233.2	6,598.00				Average	
		point280	280	292,197.1	525,291.6	6,600.00				Average	
		point281	281	292,197.1	525,346.3	6,602.00				Average	
		point282	282	292,197.1	525,402.8	6,604.00				Average	
		point283	283	292,199.0	525,470.7	6,606.00				Average	
		point284	284	292,197.1	525,495.2	6,606.00				Average	
		point285	285	292,197.1	525,517.8	6,606.00				Average	
		point286	286	292,199.0	525,546.1	6,608.00					
Marksheffel N/O N.C. NB #2	12.0	point287	287	292,212.2	523,171.6	6,568.00	Signal	0.00	50	Average	
		point288	288	292,212.2	523,237.6	6,570.00				Average	
		point289	289	292,209.8	523,317.8	6,572.00				Average	
		point290	290	292,210.3	523,386.4	6,574.00				Average	
		point291	291	292,210.3	523,469.3	6,576.00				Average	
		point292	292	292,210.3	523,557.9	6,578.00				Average	
		point293	293	292,210.3	523,825.5	6,578.00				Average	
		point294	294	292,210.3	523,938.6	6,576.00				Average	
		point295	295	292,210.3	524,010.2	6,574.00				Average	
		point296	296	292,210.3	524,049.8	6,574.00				Average	
		point297	297	292,208.4	524,085.6	6,572.00				Average	
		point298	298	292,208.4	524,243.9	6,570.00				Average	
		point299	299	292,208.4	524,443.6	6,568.00				Average	
		point300	300	292,208.4	524,488.9	6,566.00				Average	
		point301	301	292,210.3	524,573.6	6,564.00				Average	

INPUT: ROADWAYS
Windermere

		point302	302	292,210.3	524,609.4	6,566.00				Average	
		point303	303	292,210.3	524,690.5	6,568.00				Average	
		point304	304	292,212.2	524,720.6	6,570.00				Average	
		point305	305	292,210.3	524,748.9	6,572.00				Average	
		point306	306	292,210.3	524,780.9	6,574.00				Average	
		point307	307	292,210.3	524,811.1	6,576.00				Average	
		point308	308	292,210.3	524,833.7	6,578.00				Average	
		point309	309	292,208.4	524,867.6	6,580.00				Average	
		point310	310	292,208.4	524,907.2	6,582.00				Average	
		point311	311	292,210.0	524,939.2	6,584.00				Average	
		point312	312	292,208.4	524,978.8	6,586.00				Average	
		point313	313	292,208.4	525,008.9	6,588.00				Average	
		point314	314	292,210.3	525,041.0	6,590.00				Average	
		point315	315	292,210.3	525,078.7	6,592.00				Average	
		point316	316	292,210.3	525,118.2	6,594.00				Average	
		point317	317	292,208.4	525,163.5	6,596.00				Average	
		point318	318	292,208.4	525,216.2	6,598.00				Average	
		point319	319	292,210.3	525,269.0	6,600.00				Average	
		point320	320	292,210.3	525,325.6	6,602.00				Average	
		point321	321	292,210.7	525,372.3	6,604.00				Average	
		point322	322	292,210.3	525,457.5	6,606.00				Average	
		point323	323	292,210.0	525,534.4	6,608.00				Average	
		point324	324	292,210.3	525,589.4	6,610.00					
Marksheffel S/O N.C. SB Accel	12.0	point325	325	292,101.1	523,064.2	6,565.00				Average	
		point326	326	292,104.6	523,033.2	6,564.00					
Marksheffel S/O N.C. SB #2	12.0	point327	327	292,119.7	523,161.7	6,568.00	Signal	0.00	50	Average	
		point328	328	292,119.7	523,098.8	6,566.00				Average	
		point329	329	292,119.7	523,027.9	6,564.00					
Marksheffel S/O N.C. SB #1	12.0	point330	330	292,132.1	523,159.9	6,568.00	Signal	0.00	50	Average	
		point331	331	292,132.1	523,091.7	6,566.00				Average	
		point332	332	292,131.2	523,021.7	6,564.00					
Marksheffel S/O N.C. NB LT	12.0	point333	333	292,161.3	522,991.6	6,564.00				Average	
		point334	334	292,160.5	523,065.2	6,566.00				Average	
		point335	335	292,160.5	523,150.2	6,568.00					
Marksheffel S/O N.C. NB #1	12.0	point336	336	292,199.4	523,018.2	6,564.00				Average	
		point337	337	292,197.7	523,091.7	6,566.00				Average	
		point338	338	292,197.7	523,161.7	6,568.00					
Marksheffel S/O N.C. NB #2	12.0	point339	339	292,210.1	523,025.3	6,564.00				Average	
		point340	340	292,209.2	523,103.2	6,566.00				Average	

INPUT: RECEIVERS
Windermere

LSC												
KDF												
INPUT: RECEIVERS												
PROJECT/CONTRACT:	Windermere											
RUN:	2040 PM Peak Hour											
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z	above	Existing	Impact Criteria		NR	in	
						Ground	L _{Aeq} 1h	L _{Aeq} 1h	Sub'l	Goal	Calc.	
			ft	ft	ft	ft	dBA	dBA	dB	dB		
Lot 49	1	1	291,772.2	524,976.8	6,583.00	4.92	0.00	67	10.0	8.0	Y	
Lot 50	2	1	291,811.7	524,937.6	6,583.00	4.92	0.00	67	10.0	8.0	Y	
Lot 51	3	1	291,848.4	524,895.9	6,583.00	4.92	0.00	67	10.0	8.0	Y	
Lot 52	5	1	291,882.3	524,851.8	6,583.00	4.92	0.00	67	10.0	8.0	Y	
Lot 53	6	1	291,913.1	524,805.7	6,583.00	4.92	0.00	67	10.0	8.0	Y	
Lot 54	7	1	291,940.9	524,757.4	6,581.00	4.92	0.00	67	10.0	8.0	Y	
Lot 55	8	1	291,966.2	524,707.9	6,580.00	4.92	0.00	67	10.0	8.0	Y	
Lot 56	9	1	292,000.0	524,622.5	6,575.00	4.92	0.00	67	10.0	8.0	Y	
Lot 57	10	1	292,018.6	524,570.2	6,577.00	4.92	0.00	67	10.0	8.0	Y	
Lot 58	11	1	292,037.6	524,517.2	6,577.00	4.92	0.00	67	10.0	8.0	Y	
Lot 59	12	1	292,046.9	524,462.2	6,577.00	4.92	0.00	67	10.0	8.0	Y	
Lot 60	13	1	292,046.5	524,406.1	6,580.00	4.92	0.00	67	10.0	8.0	Y	
Lot 61	14	1	292,046.0	524,352.7	6,581.00	4.92	0.00	67	10.0	8.0	Y	
Lot 62	15	1	292,045.5	524,302.1	6,582.00	4.92	0.00	67	10.0	8.0	Y	
Lot 63	16	1	292,045.4	524,249.6	6,583.00	4.92	0.00	67	10.0	8.0	Y	
Lot 64	17	1	292,045.7	524,197.1	6,584.00	4.92	0.00	67	10.0	8.0	Y	
Lot 65	18	1	292,045.9	524,144.6	6,585.00	4.92	0.00	67	10.0	8.0	Y	
Lot 66	19	1	292,046.1	524,092.1	6,586.00	4.92	0.00	67	10.0	8.0	Y	
Lot 67	20	1	292,046.3	524,042.1	6,587.00	4.92	0.00	67	10.0	8.0	Y	
Lot 68	21	1	292,046.6	523,992.1	6,587.50	4.92	0.00	67	10.0	8.0	Y	
Lot 69	22	1	292,046.8	523,942.1	6,588.00	4.92	0.00	67	10.0	8.0	Y	
Lot 70	23	1	292,047.0	523,892.1	6,588.00	4.92	0.00	67	10.0	8.0	Y	

INPUT: RECEIVERS**Windermere**

Lot 71	24	1	292,047.2	523,842.1	6,588.00	4.92	0.00	67	10.0	8.0	Y
Lot 72	25	1	292,047.4	523,792.1	6,587.00	4.92	0.00	67	10.0	8.0	Y
Lot 73	26	1	292,047.6	523,742.1	6,586.00	4.92	0.00	67	10.0	8.0	Y
Lot 74	27	1	291,429.8	523,668.2	6,608.50	4.92	0.00	67	10.0	8.0	Y
Lot 75	28	1	291,485.8	523,674.4	6,605.50	4.92	0.00	67	10.0	8.0	Y
Lot 76	29	1	291,537.0	523,684.3	6,602.50	4.92	0.00	67	10.0	8.0	Y
Lot 77	30	1	291,588.2	523,698.4	6,599.50	4.92	0.00	67	10.0	8.0	Y
Lot 78	31	1	291,640.0	523,716.4	6,597.00	4.92	0.00	67	10.0	8.0	Y
Lot 79	32	1	291,692.1	523,730.7	6,596.00	4.92	0.00	67	10.0	8.0	Y
Lot 80	33	1	291,744.1	523,739.5	6,595.00	4.92	0.00	67	10.0	8.0	Y
Lot 81	34	1	291,796.2	523,742.8	6,594.50	4.92	0.00	67	10.0	8.0	Y
Lot 82	35	1	291,852.4	523,743.3	6,594.00	4.92	0.00	67	10.0	8.0	Y