

Composite Study

I-4 Eastbound Exit Ramp at Lake Mary Boulevard

FOUR-HOUR TURNING MOVEMENT COUNT
QUALITATIVE ASSESSMENT
AND
COLLISION ANALYSIS

STUDY 1
SEMINOLE COUNTY
SECTION 77160
MP 8.330

Continuing Services for Traffic Engineering
Contract Number C-8W24
Financial Project No. 237974-1-32-10
Work Order No. 1
Sequence No. 1
FDA No. 010390.01

Prepared For:



Prepared By:

Faller, Davis & Associates, Inc.
CONSULTING ENGINEERS

Maitland, Florida
February 2010

Engineer of Record: Richard S. Jardim
P.E. No. 60127



TURNING MOVEMENT COUNT

NORTH STREET: I-4 Eastbound Entrance Ramp

SOUTH STREET: I-4 Eastbound Exit Ramp

Lake Mary Boulevard at I-4 Eastbound Ramp

ALL VEHICLES

DATE: 12/15/2009

EAST STREET: Lake Mary Boulevard

WEST STREET: Lake Mary Boulevard

TIME: 7-9 AM, 4-6 PM

BY: FDA

START TIME	NORTHBOUND					SOUTHBOUND					NS TOTAL	EASTBOUND					WESTBOUND					EW TOTAL	GRAND TOTAL
	LEFT	INSIDE RIGHT	OUTSIDE RIGHT	U-TURN	TOTAL	LEFT	THRU	RIGHT	U-TURN	TOTAL		LEFT	THRU	RIGHT	U-TURN	TOTAL	THRU	I-4 WB RAMP	I-4 EB RAMP	U-TURN	TOTAL		
7:00	53	51	78	0	182	0	0	0	0	0	182	0	250	41	0	291	125	232	99	0	456	747	929
7:15	102	75	108	0	285	0	0	0	0	0	285	0	265	53	0	318	145	241	125	0	511	829	1,114
7:30	141	96	197	0	434	0	0	0	0	0	434	0	400	69	0	469	106	223	109	0	438	907	1,341
7:45	140	122	243	0	505	0	0	0	0	0	505	0	446	86	0	532	170	173	132	0	475	1,007	1,512
Total	436	344	626	0	1,406	0	0	0	0	0	1,406	0	1,361	249	0	1,610	546	869	465	0	1,880	3,490	4,896
8:00	166	141	275	0	582	0	0	0	0	0	582	0	531	77	0	608	224	176	141	0	541	1,149	1,731
8:15	174	111	255	0	540	0	0	0	0	0	540	0	479	60	0	539	137	240	125	0	502	1,041	1,581
8:30	178	105	247	0	530	0	0	0	0	0	530	0	479	60	0	539	175	222	131	0	528	1,067	1,597
8:45	193	104	222	0	519	0	0	0	0	0	519	0	432	53	0	485	133	251	140	0	524	1,009	1,528
Total	711	461	999	0	2,171	0	0	0	0	0	2,171	0	1,921	250	0	2,171	669	889	537	0	2,095	4,266	6,437
16:00	86	62	190	0	338	0	0	0	0	0	338	0	347	63	0	410	165	174	194	0	533	943	1,281
16:15	94	60	204	0	358	0	0	0	0	0	358	0	362	59	0	421	175	184	215	0	574	995	1,353
16:30	99	71	233	0	403	0	0	0	0	0	403	0	362	64	0	426	224	186	215	0	625	1,051	1,454
16:45	109	63	226	0	398	0	0	0	0	0	398	0	418	59	0	477	216	201	207	0	624	1,101	1,499
Total	388	256	853	0	1,497	0	0	0	0	0	1,497	0	1,489	245	0	1,734	780	745	831	0	2,356	4,090	5,587
17:00	99	49	245	0	393	0	0	0	0	0	393	0	466	94	0	560	223	249	291	0	763	1,323	1,716
17:15	116	52	256	0	424	0	0	0	0	0	424	0	458	59	0	517	225	270	251	0	746	1,263	1,687
17:30	106	82	310	0	498	0	0	0	0	0	498	0	501	57	0	558	226	283	222	0	731	1,289	1,787
17:45	106	66	217	0	389	0	0	0	0	0	389	0	473	60	0	533	211	253	194	0	658	1,191	1,580
Total	427	249	1,028	0	1,704	0	0	0	0	0	1,704	0	1,898	270	0	2,168	885	1,055	958	0	2,898	5,066	6,770

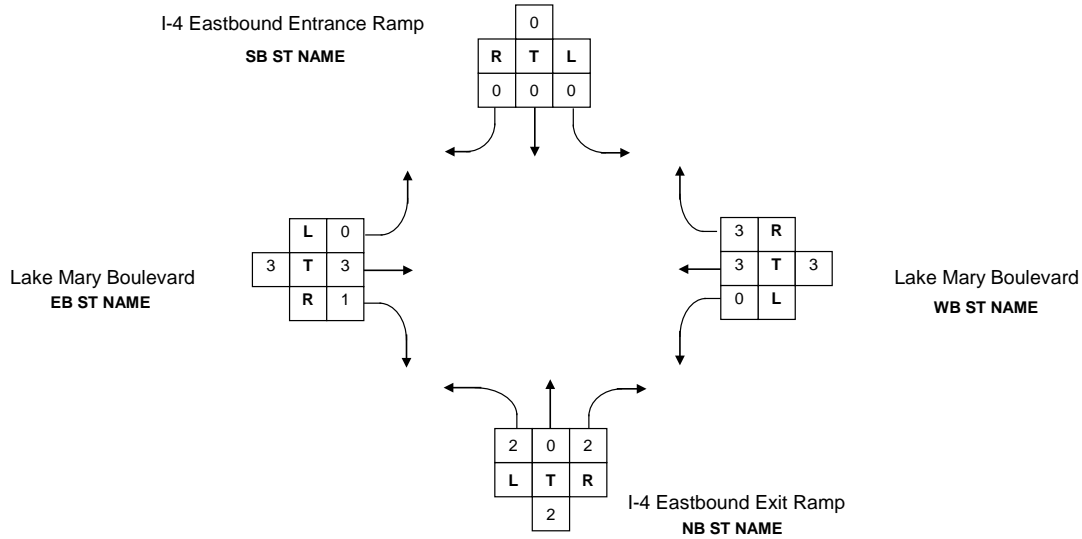
FLORIDA DEPARTMENT OF TRANSPORTATION

SUMMARY OF VEHICLE MOVEMENTS

SECTION 77160 CITY Lake Mary COUNTY Seminole
 MAIN STREET Lake Mary Boulevard INTERSECTING ROUTE I-4 Eastbound Exit Ramp
 OBSERVER FDA DATE 12/15/2009 RIGHT 8.330
 WEATHER Fair ROAD CONDITION Good
 REMARKS

FORM COMPLETED BY GP

DATE 02/12/10



TIME	NORTHBOUND					SOUTHBOUND					TOTAL	EASTBOUND					WESTBOUND					TOTAL
	LEFT	INSIDE RIGHT	OUTSIDE RIGHT	U-TURN	TOT	LEFT	THRU	RIGHT	U-TURN	TOT	N/S	LEFT	THRU	RIGHT	U-TURN	TOT	THRU	I-4 WB RAMP	I-4 EB RAMP	U-TURN	TOT	E/W
4 - 5																						
5 - 6																						
6 - 7																						
7 - 8	436	344	626	0	1,406	0	0	0	0	0	1,406	0	1,361	249	0	1,610	546	869	465	0	1,880	3,490
8 - 9	711	461	999	0	2,171	0	0	0	0	0	2,171	0	1,921	250	0	2,171	669	889	537	0	2,095	4,266
9 - 10																						
10 - 11																						
11 - 12																						
12 - 1																						
1 - 2																						
2 - 3																						
3 - 4																						
4 - 5	388	256	853	0	1,497	0	0	0	0	0	1,497	0	1,489	245	0	1,734	780	745	831	0	2,356	4,090
5 - 6	427	249	1,028	0	1,704	0	0	0	0	0	1,704	0	1,898	270	0	2,168	885	1,055	958	0	2,898	5,066
6 - 7																						
7 - 8																						
8 - 9																						
9 - 10																						
10 - 11																						
11 - 12																						
TOTAL	1,962	1,310	3,506	0	6,778	0	0	0	0	0	6,778	0	6,669	1,014	0	7,683	2,880	3,558	2,791	0	9,229	16,912

Percentage	29%	19%	52%	0%		0%	0%	0%	0%			0%	87%	13%	0%		31%	39%	30%	0%		
Maximum	711	461	1028	0		0	0	0	0			0	1921	270	0		885	1055	958	0		
Minimum	388	249	626	0		0	0	0	0			0	1361	245	0		546	745	465	0		

FLORIDA DEPARTMENT OF TRANSPORTATION

PEDESTRIAN MOVEMENT SUMMARY

SECTION 77160 CITY Lake Mary COUNTY Seminole
 STATE ROUTE Lake Mary Boulevard INTERSECTING ROUTE I-4 Eastbound Exit Ramp
 OBSERVER FDA DATE 12/15/2009 MILEPOST 8.330

REMARKS

FORM COMPLETED BY GP

DATE 01/07/10

I-4 Eastbound Entrance Ramp

SB ST NAME

7-8	8-9					4-5	5-6	Total
0	0					0	0	0
0	0					0	0	0
0	0					0	0	0

Lake Mary Boulevard

EB ST NAME

7-8	8-9		
0	0		
0	0		
4-5	0	0	0
5-6	0	0	0
Total	0	0	0

Lake Mary Boulevard

WB ST NAME

7-8	8-9		
0	0		
0	0		
4-5	0	0	0
5-6	0	0	0
Total	0	0	0

I-4 Eastbound Exit Ramp

NB ST NAME

7-8	8-9					4-5	5-6	Total
0	2					1	3	6
0	1					0	0	1
0	3					1	3	7

FLORIDA DEPARTMENT OF TRANSPORTATION

BICYCLE MOVEMENT SUMMARY

SECTION 77160 CITY Lake Mary COUNTY Seminole
 STATE ROUTE Lake Mary Boulevard INTERSECTING ROUTE I-4 Eastbound Exit Ramp
 OBSERVER FDA DATE 12/15/2009 MILEPOST 8.330

REMARKS

FORM COMPLETED BY GP

DATE 01/07/10

I-4 Eastbound Entrance Ramp

SB ST NAME

7-8	8-9					4-5	5-6	Total
0	0					0	0	0
0	0					0	0	0
0	0					0	0	0

Lake Mary Boulevard

EB ST NAME

7-8	8-9		
0	0		
0	0		
4-5	0	0	0
5-6	0	0	0
Total	0	0	0

Lake Mary Boulevard

WB ST NAME

7-8	8-9		
0	0		
0	0		
4-5	0	0	0
5-6	0	0	0
Total	0	0	0

I-4 Eastbound Exit Ramp

NB ST NAME

7-8	8-9					4-5	5-6	Total
0	3					2	0	5
0	1					0	0	1
0	4					2	0	6