

Intersection Analysis

Interstate 4 Eastbound Entrance/Exit Ramps at Saxon Boulevard

STUDY 2
VOLUSIA COUNTY
SECTION 79110
MP 6.368

Continuing Services for Traffic Engineering Contract Number C-8L68
Financial Project No. 237987-1-32-12
Work Order No. 4
FDA No. 336.0032

Prepared For:

STATE OF FLORIDA



Prepared By:

Faller, Davis & Associates, Inc.
CONSULTING ENGINEERS

Maitland, Florida
July 2007

Douglas J. Petty
7/10/07
Engineer of Record: Douglas J. Petty
P.E. No. 58730

Exhibit 1-Interstate 4 Eastbound Entrance Ramp



Looking south into the intersection along Interstate 4 Entrance Ramp



Looking north from the intersection along Interstate 4 Entrance Ramp

Exhibit 2-Interstate 4 Eastbound Exit Ramp



Looking north into the intersection along Interstate 4 Exit Ramp



Looking south from the intersection along Interstate 4 Exit Ramp

Exhibit 3-Saxon Boulevard



Looking west into the intersection along Saxon Boulevard



Looking east from the intersection along Saxon Boulevard

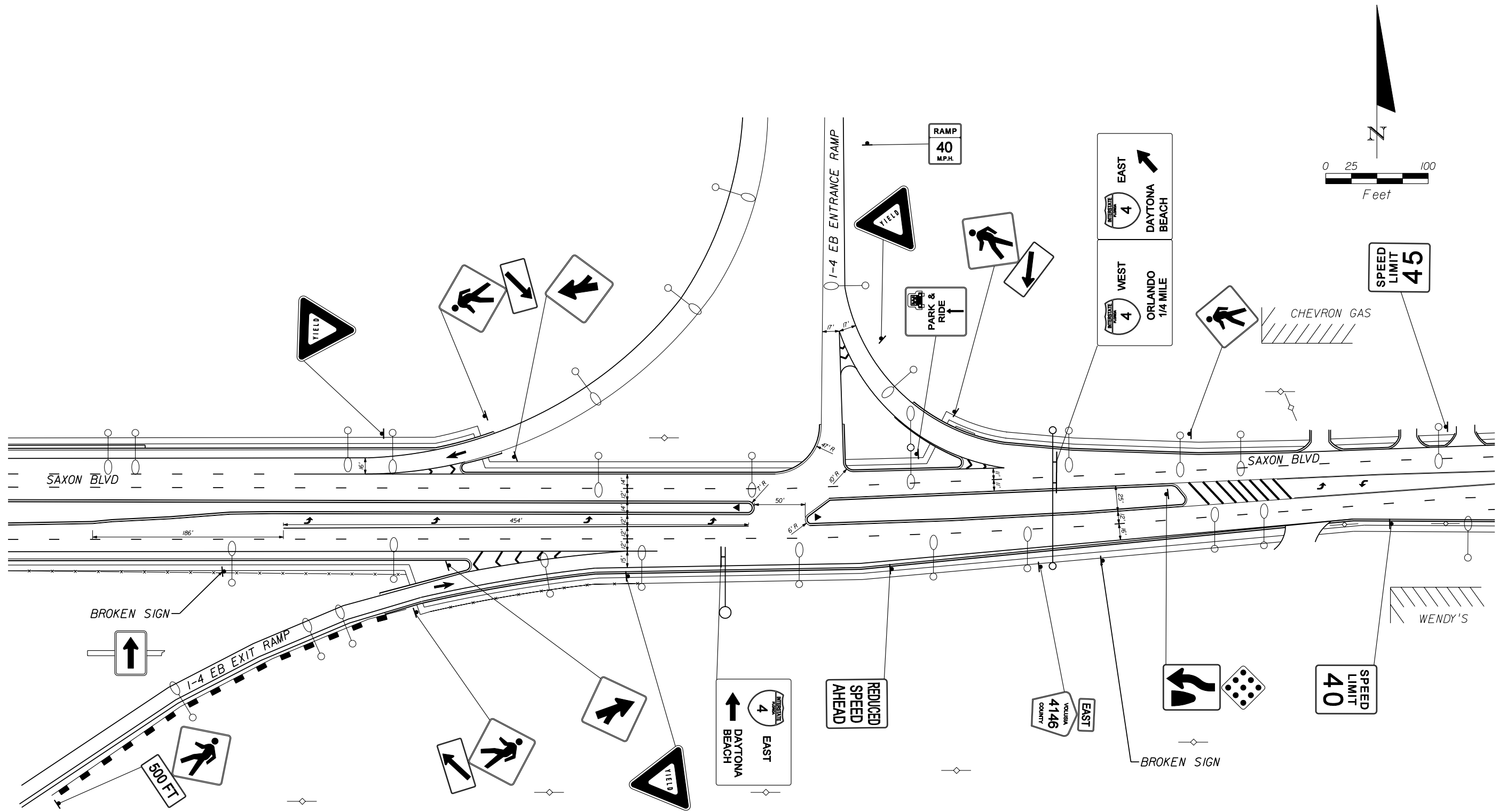
Exhibit 4-Saxon Boulevard



Looking east into the intersection along Saxon Boulevard



Looking west from the intersection along Saxon Boulevard



	CONTROLLER CABINET		DELINEATOR		DITCH BOTTOM INLET		GUARDRAIL
	TRAFFIC SIGNAL POLE		POWER POLE		MANHOLE		FENCE
	SIGNAL HEAD		LIGHT POLE		MITERED END SECTION		TREE/SHRUB
	SIGN		HYDRANT		DRAINAGE INLET		BUILDING

Faller, Davis & Associates, Inc.

FIGURE 2
CONDITION DIAGRAM
CONTINUING SERVICES FOR TRAFFIC ENGINEERING

TURNING MOVEMENT COUNT

NORTH STREET: I-4 Eastbound Entrance Ramp

SOUTH STREET: I-4 Eastbound Exit Ramp

I-4 Eastbound Entrance/Exit Ramps at Saxon Boulevard

ALL VEHICLES

DATE: 1/25/2007

EAST STREET: Saxon Boulevard

WEST STREET: Saxon Boulevard

TIME: 7:00-9:00 AM,11:00 AM-1:00 PM,2:30-6:30 PM

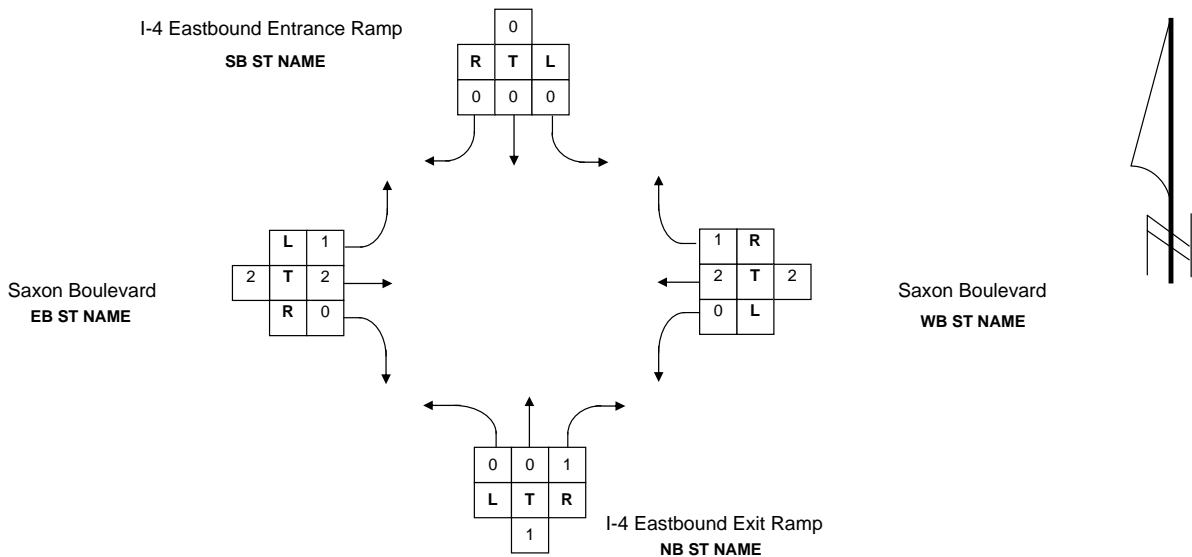
BY: FDA

START TIME	NORTHBOUND					SOUTHBOUND					NS TOTAL	EASTBOUND					WESTBOUND					EW TOTAL	GRAND TOTAL
	LEFT	THRU	RIGHT	U-TURN	TOTAL	LEFT	THRU	RIGHT	U-TURN	TOTAL		LEFT	THRU	RIGHT	U-TURN	TOTAL	LEFT	THRU	RIGHT	U-TURN	TOTAL		
7:00	0	0	48	0	48	0	0	0	0	0	48	93	190	0	0	283	0	601	152	0	753	1,036	1,084
7:15	0	0	65	0	65	0	0	0	0	0	65	74	199	0	0	273	0	639	178	0	817	1,090	1,155
7:30	0	0	61	0	61	0	0	0	0	0	61	61	208	0	0	269	0	678	165	0	843	1,112	1,173
7:45	0	0	73	0	73	0	0	0	0	0	73	63	208	0	0	271	0	688	114	0	802	1,073	1,146
Total	0	0	247	0	247	0	0	0	0	0	247	291	805	0	0	1,096	0	2,606	609	0	3,215	4,311	4,558
8:00	0	0	58	0	58	0	0	0	0	0	58	56	227	0	1	284	0	668	128	0	796	1,080	1,138
8:15	0	0	44	0	44	0	0	0	0	0	44	69	166	0	1	236	0	542	91	0	633	869	913
8:30	0	0	62	0	62	0	0	0	0	0	62	65	222	0	1	288	0	533	79	0	612	900	962
8:45	0	0	51	0	51	0	0	0	0	0	51	60	244	0	0	304	0	529	59	0	588	892	943
Total	0	0	215	0	215	0	0	0	0	0	215	250	859	0	3	1,112	0	2,272	357	0	2,629	3,741	3,956
11:00	0	0	61	0	61	0	0	0	0	0	61	60	328	0	0	388	0	409	50	0	459	847	908
11:15	0	0	71	0	71	0	0	0	0	0	71	51	330	0	1	382	0	465	42	0	507	889	960
11:30	0	0	62	0	62	0	0	0	0	0	62	50	366	0	0	416	0	461	52	0	513	929	991
11:45	0	0	72	0	72	0	0	0	0	0	72	75	387	0	0	462	0	417	39	0	456	918	990
Total	0	0	266	0	266	0	0	0	0	0	266	236	1,411	0	1	1,648	0	1,752	183	0	1,935	3,583	3,849
12:00	0	0	62	0	62	0	0	0	0	0	62	65	408	0	0	473	0	453	45	0	498	971	1,033
12:15	0	0	82	0	82	0	0	0	0	0	82	72	384	0	1	457	0	485	46	0	531	988	1,070
12:30	0	0	80	0	80	0	0	0	0	0	80	52	399	0	0	451	0	416	47	0	463	914	994
12:45	0	0	90	0	90	0	0	0	0	0	90	60	420	0	1	481	0	460	38	0	498	979	1,069
Total	0	0	314	0	314	0	0	0	0	0	314	249	1,611	0	2	1,862	0	1,814	176	0	1,990	3,852	4,166
14:30	0	0	117	0	117	0	0	0	0	0	117	62	457	0	1	520	0	375	48	0	423	943	1,060
14:45	0	0	121	0	121	0	0	0	0	0	121	53	434	0	1	488	0	433	51	0	484	972	1,093
15:00	0	0	148	0	148	0	0	0	0	0	148	79	435	0	0	514	0	414	58	0	472	986	1,134
15:15	0	0	132	0	132	0	0	0	0	0	132	69	444	0	0	513	0	417	61	0	478	991	1,123
Total	0	0	518	0	518	0	0	0	0	0	518	263	1,770	0	2	2,035	0	1,639	218	0	1,857	3,892	4,410
15:30	0	0	140	0	140	0	0	0	0	0	140	64	459	0	0	523	0	442	61	0	503	1,026	1,166
15:45	0	0	182	0	182	0	0	0	0	0	182	52	499	0	2	553	0	406	50	0	456	1,009	1,191
16:00	0	0	155	0	155	0	0	0	0	0	155	69	505	0	1	575	0	381	61	0	442	1,017	1,172
16:15	0	0	194	0	194	0	0	0	0	0	194	62	487	0	2	551	0	413	59	0	472	1,023	1,217
Total	0	0	671	0	671	0	0	0	0	0	671	247	1,950	0	5	2,202	0	1,642	231	0	1,873	4,075	4,746
16:30	0	0	223	0	223	0	0	0	0	0	223	81	552	0	1	634	0	402	64	0	466	1,100	1,323
16:45	0	0	251	0	251	0	0	0	0	0	251	55	552	0	1	608	0	409	72	0	481	1,089	1,340
17:00	0	0	231	0	231	0	0	0	0	0	231	101	550	0	3	654	0	397	74	0	471	1,125	1,356
17:15	0	0	279	0	279	0	0	0	0	0	279	77	565	0	0	642	0	399	51	0	450	1,092	1,371
Total	0	0	984	0	984	0	0	0	0	0	984	314	2,219	0	5	2,538	0	1,607	261	0	1,868	4,406	5,390
17:30	0	0	271	0	271	0	0	0	0	0	271	88	561	0	1	650	0	362	55	0	417	1,067	1,338
17:45	0	0	281	0	281	0	0	0	0	0	281	52	510	0	2	564	0	383	50	0	433	997	1,278
18:00	0	0	326	0	326	0	0	0	0	0	326	44	531	0	0	575	0	370	52	0	422	997	1,323
18:15	0	0	275	0	275	0	0	0	0	0	275	0	0	0	0	0	0	377	40	0	417	417	692
Total	0	0	1,153	0	1,153	0	0	0	0	0	1,153	184	1,602	0	3	1,789	0	1,492	197	0	1,689	3,478	4,631

FLORIDA DEPARTMENT OF TRANSPORTATION

SUMMARY OF VEHICLE MOVEMENTS

SECTION 79110	CITY Deltona	COUNTY Volusia
STATE ROUTE I-4 Eastbound Ent/Exit Ramps	INTERSECTING ROUTE Saxon Boulevard	
OBSERVER FDA	DATE 1/25/2007	MILEPOST 6.368
WEATHER Fair	ROAD CONDITION Good	
REMARKS		
FORM COMPLETED BY BM		
DATE 02/15/07		



TIME	NORTHBOUND					SOUTHBOUND					TOTAL	EASTBOUND					WESTBOUND					TOTAL
BEGIN/END	L	T	R	U	TOT	L	T	R	U	TOT	N/S	L	T	R	U	TOT	L	T	R	U	TOT	E/W
4 - 5																						
5 - 6																						
6 - 7																						
7 - 8	0	0	247	0	247	0	0	0	0	0	247	291	805	0	0	1,096	0	2,606	609	0	3,215	4,311
8 - 9	0	0	215	0	215	0	0	0	0	0	215	250	859	0	3	1,112	0	2,272	357	0	2,629	3,741
9 - 10																						
10 - 11																						
11 - 12	0	0	266	0	266	0	0	0	0	0	266	236	1,411	0	1	1,648	0	1,752	183	0	1,935	3,583
12 - 1	0	0	314	0	314	0	0	0	0	0	314	249	1,611	0	2	1,862	0	1,814	176	0	1,990	3,852
1 - 2																						
2 - 230																						
230 - 330	0	0	518	0	518	0	0	0	0	0	518	263	1,770	0	2	2,035	0	1,639	218	0	1,857	3,892
330 - 430	0	0	671	0	671	0	0	0	0	0	671	247	1,950	0	5	2,202	0	1,642	231	0	1,873	4,075
430 - 530	0	0	984	0	984	0	0	0	0	0	984	314	2,219	0	5	2,538	0	1,607	261	0	1,868	4,406
530 - 630	0	0	1,153	0	1,153	0	0	0	0	0	1,153	184	1,602	0	3	1,789	0	1,492	197	0	1,689	3,478
630 - 7																						
7 - 8																						
8 - 9																						
9 - 10																						
10 - 11																						
TOTAL	0	0	4,368	0	4,368	0	0	0	0	0	4,368	2,034	12,227	0	21	14,282	0	14,824	2,232	0	17,056	31,338

Percentage	0%	0%	100%	0%		0%	0%	0%	0%			14%	86%	0%	0%		0%	87%	13%	0%		
Maximum	0	0	1153	0		0	0	0	0			314	2219	0	5		0	2606	609	0		
Minimum	0	0	215	0		0	0	0	0			184	805	0	0		0	1492	176	0		

PEDESTRIAN MOVEMENT SUMMARY

SECTION	79110	CITY	Deltona	COUNTY	Volusia
STATE ROUTE	I-4 Eastbound Ent/Exit Ramps	INTERSECTING ROUTE	Saxon Boulevard		
OBSERVER	FDA	DATE	1/25/2007	MILEPOST	6.368

REMARKS

FORM COMPLETED BY BM

DATE 02/15/07

[illegible]

BICYCLE MOVEMENT SUMMARY

REMARKS

FORM COMPLETED BY BM **DATE** 02/15/07

[illegible]