

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
NIGHTTIME 2 LANE CLOSURE  
DIVERSION ROUTE: BUS 51 - STH 52**

**OCTOBER**

Analyzed for 2009  
Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY SOUTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH							
	MAIN ROUTE		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	186	0.0	75	0.0	1500	186	0	75	0.50	0	70.2	62.5	44.7	31.5	31.5
1-2 AM	107	0.0	54	0.0	1500	107	0	54	0.49	0	70.2	62.6	45.1	32.1	32.1
2-3 AM	103	0.0	46	0.0	1500	103	0	46	0.48	0	70.2	62.6	45.1	32.3	32.3
3-4 AM	182	0.0	52	0.0	1500	182	0	52	0.49	0	70.2	62.5	44.8	32.2	32.2
4-5 AM	298	0.0	118	0.0	1500	298	0	118	0.51	0	70.2	62.3	44.3	30.4	30.4
5-6 AM	754	0.0	254	0.0	OFF	754	0	254	0.00	0	69.8	69.8	69.8	26.8	26.8
6-7 AM	1655	0.0	570	0.0	OFF	1655	0	570	0.00	0	68.7	68.7	68.7	19.3	19.3
7-8 AM	1790	0.0	696	0.0	OFF	1790	0	696	0.00	0	68.5	68.5	68.5	16.9	16.9
8-9 AM	1583	0.0	536	0.0	OFF	1583	0	536	0.00	0	68.7	68.7	68.7	20.0	20.0
9-10 AM	1617	0.0	571	0.0	OFF	1617	0	571	0.00	0	68.7	68.7	68.7	19.3	19.3
10-11 AM	1818	0.0	690	0.0	OFF	1818	0	690	0.00	0	68.5	68.5	68.5	17.0	17.0
11A-NOON	1962	0.0	795	0.0	OFF	1962	0	795	0.00	0	68.3	68.3	68.3	15.0	15.0
NOON-1PM	2159	0.0	865	0.0	OFF	2159	0	865+	0.00	0	68.1	68.1	68.1	13.6	13.6
1-2 PM	2197	0.0	943	0.0	OFF	2197	0	943+	0.00	0	68.0	68.0	68.0	12.7	12.7
2-3 PM	2531	0.0	1119	0.0	OFF	2531	0	1119+	0.00	0	67.6	67.6	67.6	11.2	11.2
3-4 PM	2878	0.0	1328	0.0	OFF	2878	0	1328+	0.00	0	67.1	67.1	67.1	11.2	11.2
4-5 PM	3066	0.0	1297	0.0	OFF	3066	0	1297+	0.00	0	66.9	66.9	66.9	11.2	11.2
5-6 PM	2705	0.0	1107	0.0	OFF	2705	0	1107+	0.00	0	67.4	67.4	67.4	11.2	11.2
6-7 PM	1902	0.0	825	0.0	OFF	1902	0	825+	0.00	0	68.4	68.4	68.4	14.4	14.4
7-8 PM	1388	0.0	629	0.0	1500	1388	0	629	0.95	0	69.0	56.0	33.3	18.2	18.2
8-9 PM	1059	0.0	493	0.0	1500	1059	0	493	0.59	0	69.4	60.5	41.5	20.8	20.8
9-10 PM	825	0.0	388	0.0	1500	825	0	388	0.57	0	69.7	61.1	42.3	23.2	23.2
10-11 PM	597	0.0	284	0.0	1500	597	0	284	0.54	0	70.0	61.7	43.2	26.0	26.0
11PM-MID	395	0.0	209	0.0	1500	395	0	209	0.52	0	70.2	62.1	43.9	28.0	28.0

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0252
MAIN ROUTE WITH WORKS	0.0249
DIVERSION	0.1325

PIA: Personal Injury Accidents

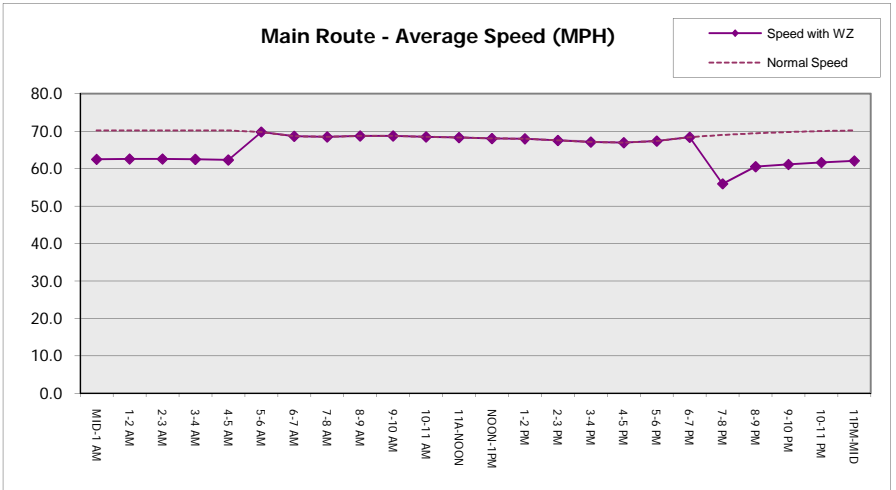
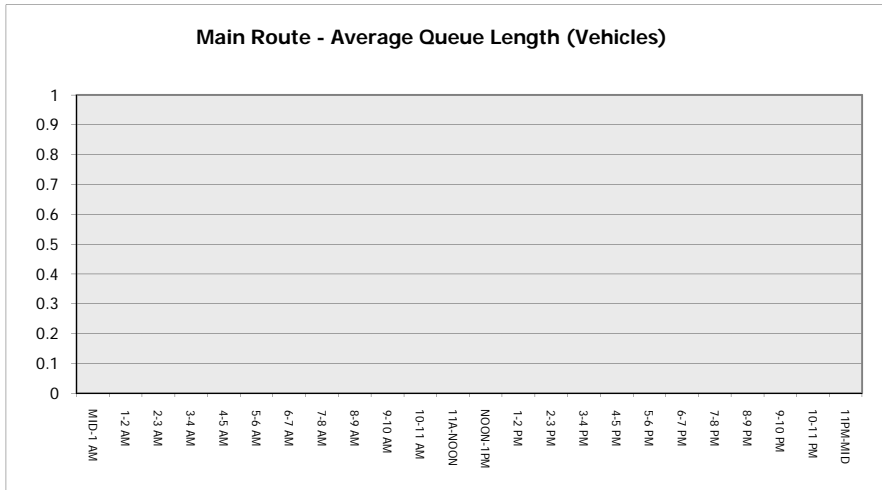
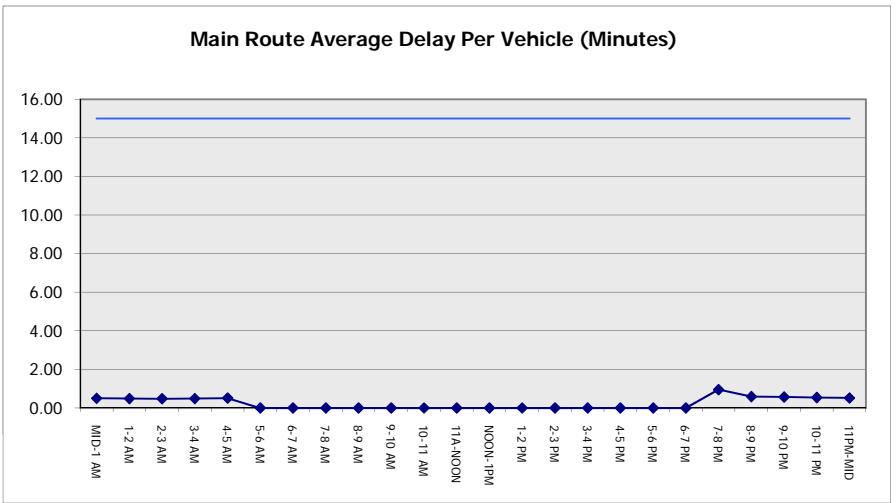
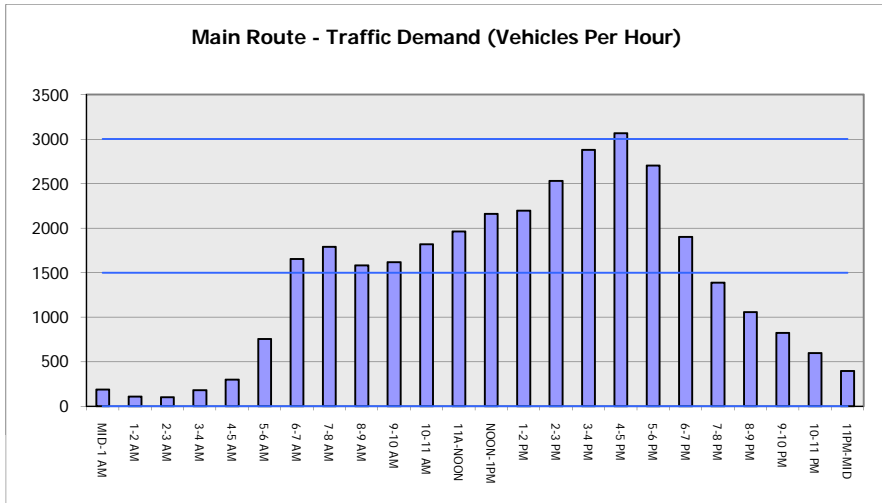
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$904
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
 NIGHTTIME 2 LANE CLOSURE  
 DIVERSION ROUTE: BUS 51 - STH 52**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY SOUTHBOUND DIRECTION**



<b>USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
FRIDAY	NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	298	0.0	59	0.0	1500	298	0	59	0.51	0	70.2	62.3	44.3	32.0	32.0
1-2 AM	141	0.0	56	0.0	1500	141	0	56	0.49	0	70.2	62.5	44.9	32.0	32.0
2-3 AM	135	0.0	57	0.0	1500	135	0	57	0.49	0	70.2	62.5	45.0	32.0	32.0
3-4 AM	202	0.0	71	0.0	1500	202	0	71	0.50	0	70.2	62.5	44.6	31.7	31.7
4-5 AM	307	0.0	143	0.0	1500	307	0	143	0.51	0	70.2	62.3	44.3	29.7	29.7
5-6 AM	705	0.0	344	0.0	OFF	705	0	344	0.00	0	69.9	69.9	69.9	24.4	24.4
6-7 AM	1676	0.0	791	0.0	OFF	1676	0	791	0.00	0	68.6	68.6	68.6	15.1	15.1
7-8 AM	2319	0.0	1108	0.0	OFF	2319	0	1108+	0.00	0	67.9	67.9	67.9	11.2	11.2
8-9 AM	1819	0.0	802	0.0	OFF	1819	0	802+	0.00	0	68.5	68.5	68.5	14.9	14.9
9-10 AM	1958	0.0	722	0.0	OFF	1958	0	722	0.00	0	68.3	68.3	68.3	16.5	16.5
10-11 AM	2221	0.0	750	0.0	OFF	2221	0	750	0.00	0	68.0	68.0	68.0	15.9	15.9
11A-NOON	2324	0.0	806	0.0	OFF	2324	0	806+	0.00	0	67.9	67.9	67.9	14.8	14.8
NOON-1PM	2450	0.0	809	0.0	OFF	2450	0	809+	0.00	0	67.7	67.7	67.7	14.7	14.7
1-2 PM	2608	0.0	866	0.0	OFF	2608	0	866+	0.00	0	67.5	67.5	67.5	13.5	13.5
2-3 PM	2882	0.0	942	0.0	OFF	2882	0	942+	0.00	0	67.1	67.1	67.1	12.7	12.7
3-4 PM	3408	0.0	1076	0.0	OFF	3408	0	1076+	0.00	0	66.5	66.5	66.5	11.2	11.2
4-5 PM	3344	0.0	1067	0.0	OFF	3344	0	1067+	0.00	0	66.6	66.6	66.6	11.2	11.2
5-6 PM	3288	0.0	992	0.0	OFF	3288	0	992+	0.00	0	66.6	66.6	66.6	12.2	12.2
6-7 PM	2725	0.0	771	0.0	OFF	2725	0	771	0.00	0	67.4	67.4	67.4	15.5	15.5
7-8 PM	2235	0.0	558	0.0	1499	2119	116	674	13.38	372	67.9	16.1	30.8	19.6	17.3
8-9 PM	1749	0.0	367	0.0	1499	1340	408	776	22.42	561	68.6	10.6	30.8	23.8	15.3
9-10 PM	1322	0.0	299	0.0	1500	1216	106	404	12.69	317	69.1	16.8	30.9	25.6	23.1
10-11 PM	887	0.0	239	0.0	1500	887	0	239	1.30	29	69.6	52.7	41.7	27.2	27.2
11PM-MID	528	0.0	185	0.0	1500	528	0	185	0.54	0	70.0	61.9	43.4	28.6	28.6

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0310
MAIN ROUTE WITH WORKS	0.0301
DIVERSION	0.1378

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$23,515
CONGESTED HOURS PER DAY*	1

\*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
 NIGHTTIME 2 LANE CLOSURE  
 DIVERSION ROUTE: BUS 51 - STH 52**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY NORTHBOUND DIRECTION**

