

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
CONTINUOUS (24 HOUR) 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	1500	754	0	254	0.56	0	69.8	61.3	42.5	26.8	26.8
6-7 AM	1655	0.0	570	0.0	1499	1655	0	570	2.50	45	68.7	42.7	30.8	19.3	19.3
7-8 AM	1790	0.0	696	0.0	1500	1790	0	696	12.08	302	68.5	17.4	30.8	16.9	16.9
8-9 AM	1583	0.0	536	0.0	1499	1492	91	627	18.26	449	68.7	12.6	30.8	20.0	18.3
9-10 AM	1617	0.0	571	0.0	1500	1550	67	639	18.53	456	68.7	12.4	30.8	19.3	18.0
10-11 AM	1818	0.0	690	0.0	1500	1705	113	803+	23.37	588	68.5	10.2	30.8	17.0	14.8
11A-NOON	1962	0.0	795	0.0	1499	1655	307	1102+	30.81	780	68.3	8.1	30.8	15.0	11.7
NOON-1PM	2159	0.0	865	0.0	1499	1500	659	1524+	32.33	818	68.1	7.7	30.8	13.6	11.2
1-2 PM	2197	0.0	943	0.0	1499	1500	697	1640+	32.32	818	68.0	7.7	30.8	12.7	11.2
2-3 PM	2531	0.0	1119	0.0	1499	1500	1031	2150+	32.30	818	67.6	7.7	30.8	11.2	11.2
3-4 PM	2878	0.0	1328	0.0	1499	1500	1378	2706+	32.27	818	67.1	7.7	30.8	11.2	11.2
4-5 PM	3066	0.0	1297	0.0	1499	1500	1566	2863+	32.26	818	66.9	7.7	30.8	11.2	11.2
5-6 PM	2705	0.0	1107	0.0	1499	1500	1205	2312+	32.29	818	67.4	7.7	30.8	11.2	11.2
6-7 PM	1902	0.0	825	0.0	1499	1426	476	1301+	31.63	800	68.4	7.9	30.8	14.4	11.4
7-8 PM	1388	0.0	629	0.0	1499	1173	215	844+	24.41	620	69.0	9.9	30.8	18.2	14.3
8-9 PM	1059	0.0	493	0.0	1499	1059	0	493	8.37	243	69.4	22.7	34.9	20.8	20.8
9-10 PM	825	0.0	388	0.0	1500	824	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

+ 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	0.0177
DIVERSION	0.2066

PIA: Personal Injury Accidents

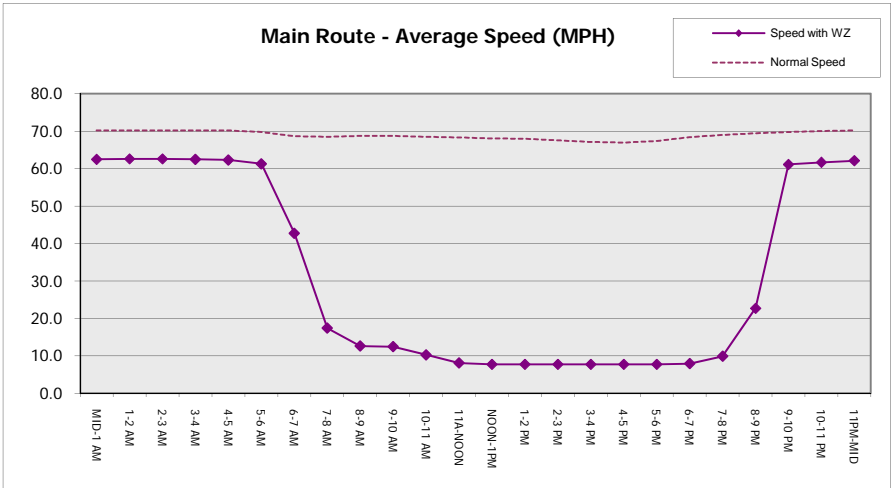
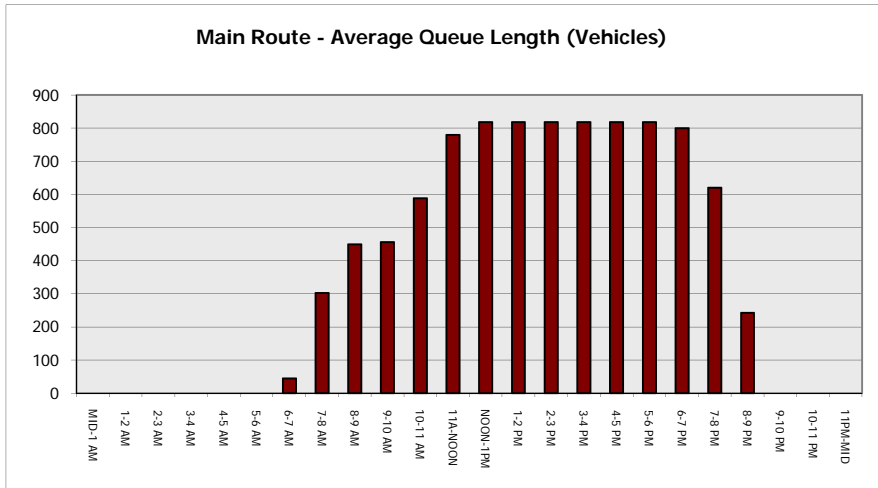
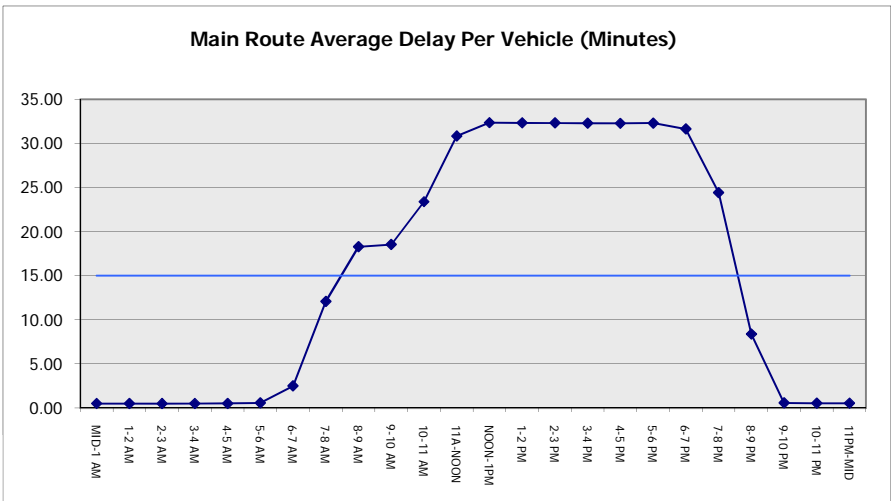
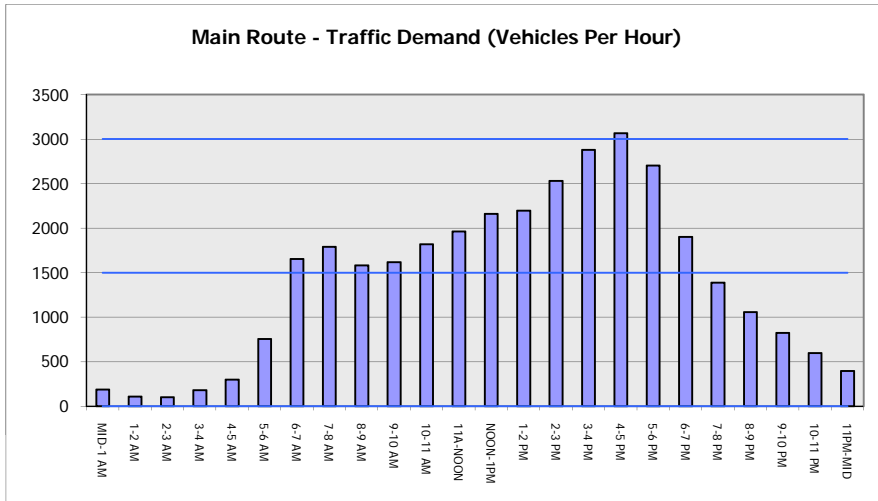
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$196,576
CONGESTED HOURS PER DAY*	12

\*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
 CONTINUOUS (24 HOUR) 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)</b> <b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: BUS 51 - STH 52</b>	<b>OCTOBER</b> Analyzed for 2009 Construction Season
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<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	1500	705	0	344	0.56	0	69.9	61.4	42.7	24.4	24.4
6-7 AM	1676	0.0	791	0.0	1499	1676	0	791	2.40	47	68.6	43.3	31.1	15.1	15.0
7-8 AM	2319	0.0	1108	0.0	1500	2069	250	1358+	20.68	580	67.9	11.4	32.0	11.2	11.2
8-9 AM	1819	0.0	802	0.0	1500	1540	279	1081+	31.97	808	68.5	7.8	30.8	14.9	11.3
9-10 AM	1958	0.0	722	0.0	1500	1506	452	1173+	32.28	817	68.3	7.8	30.8	16.5	11.2
10-11 AM	2221	0.0	750	0.0	1500	1500	721	1472+	32.32	818	68.0	7.7	30.8	15.9	11.2
11A-NOON	2324	0.0	806	0.0	1500	1500	824	1630+	32.31	818	67.9	7.7	30.8	14.8	11.2
NOON-1PM	2450	0.0	809	0.0	1500	1500	950	1759+	32.31	818	67.7	7.7	30.8	14.7	11.2
1-2 PM	2608	0.0	866	0.0	1500	1500	1107	1973+	32.29	818	67.5	7.7	30.8	13.5	11.2
2-3 PM	2882	0.0	942	0.0	1500	1500	1382	2324+	32.27	818	67.1	7.7	30.8	12.7	11.2
3-4 PM	3408	0.0	1076	0.0	1500	1500	1908	2984+	32.23	818	66.5	7.7	30.8	11.2	11.2
4-5 PM	3344	0.0	1067	0.0	1500	1500	1843	2911+	32.24	818	66.6	7.7	30.8	11.2	11.2
5-6 PM	3288	0.0	992	0.0	1500	1500	1788	2780+	32.24	818	66.6	7.7	30.8	12.2	11.2
6-7 PM	2725	0.0	771	0.0	1500	1500	1225	1996+	32.28	818	67.4	7.7	30.8	15.5	11.2
7-8 PM	2235	0.0	558	0.0	1500	1500	735	1293+	32.32	818	67.9	7.7	30.8	19.6	11.2
8-9 PM	1749	0.0	367	0.0	1500	1208	541	909+	26.43	671	68.6	9.3	30.8	23.8	13.4
9-10 PM	1322	0.0	299	0.0	1500	1176	146	445	13.53	342	69.1	16.0	30.9	25.6	22.2
10-11 PM	887	0.0	239	0.0	1500	887	0	239	1.40	34	69.6	51.7	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

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(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	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(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	0.0187
DIVERSION	0.2663

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$279,019
CONGESTED HOURS PER DAY*	14

\*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
 CONTINUOUS (24 HOUR) 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**

