

<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

**SUMMARY OF TRAFFIC MODEL OUTPUT**

**SATURDAY 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	229	0.0	100	0.0	1500	229	0	100	0.50	0	70.2	62.4	44.6	30.9	30.9
1-2 AM	155	0.0	61	0.0	1500	155	0	61	0.49	0	70.2	62.5	44.8	31.9	31.9
2-3 AM	116	0.0	58	0.0	1500	116	0	58	0.49	0	70.2	62.6	45.0	32.0	32.0
3-4 AM	149	0.0	44	0.0	1500	149	0	44	0.49	0	70.2	62.5	44.9	32.4	32.4
4-5 AM	175	0.0	73	0.0	1500	175	0	73	0.49	0	70.2	62.5	44.8	31.6	31.6
5-6 AM	342	0.0	90	0.0	1500	342	0	90	0.51	0	70.2	62.2	44.1	31.2	31.2
6-7 AM	656	0.0	152	0.0	1500	656	0	152	0.55	0	69.9	61.5	42.9	29.5	29.5
7-8 AM	947	0.0	230	0.0	1500	947	0	230	0.58	0	69.6	60.9	41.9	27.4	27.4
8-9 AM	1273	0.0	359	0.0	1499	1273	0	359	0.80	0	69.2	57.8	36.4	24.0	24.0
9-10 AM	1570	0.0	483	0.0	1499	1570	0	483	1.69	17	68.8	48.7	30.8	21.0	21.0
10-11 AM	1847	0.0	656	0.0	1500	1847	0	656	9.12	233	68.4	21.3	30.8	17.7	17.7
11A-NOON	1897	0.0	699	0.0	1499	1798	99	798	22.87	580	68.4	10.4	30.8	16.9	15.0
NOON-1PM	2037	0.0	782	0.0	1500	1605	433	1215+	31.68	802	68.2	7.9	31.1	15.3	11.4
1-2 PM	1833	0.0	740	0.0	1499	1495	338	1078+	32.31	817	68.4	7.8	30.8	16.1	11.2
2-3 PM	1965	0.0	766	0.0	1499	1499	467	1232+	32.33	818	68.3	7.7	30.8	15.6	11.2
3-4 PM	1882	0.0	775	0.0	1499	1500	382	1157+	32.35	818	68.4	7.7	30.8	15.4	11.2
4-5 PM	1776	0.0	726	0.0	1499	1449	327	1053+	31.67	801	68.5	7.9	30.8	16.3	11.4
5-6 PM	1481	0.0	693	0.0	1499	1288	193	886+	25.99	655	68.9	9.4	30.8	17.0	13.5
6-7 PM	1416	0.0	600	0.0	1500	1348	68	668	19.22	477	69.0	12.1	30.8	18.8	17.5
7-8 PM	1111	0.0	483	0.0	1499	1111	0	483	7.82	218	69.4	23.7	34.1	21.0	21.0
8-9 PM	994	0.0	427	0.0	1500	994	0	427	0.59	0	69.5	60.7	41.7	22.2	22.2
9-10 PM	748	0.0	316	0.0	1500	748	0	316	0.56	0	69.8	61.3	42.6	25.2	25.2
10-11 PM	493	0.0	216	0.0	1500	493	0	216	0.53	0	70.1	61.9	43.5	27.8	27.8
11PM-MID	371	0.0	155	0.0	1500	371	0	155	0.52	0	70.2	62.2	44.0	29.4	29.4

+ 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	0.0190
MAIN ROUTE WITH WORKS	0.0158
DIVERSION	0.1139

PIA: Personal Injury Accidents

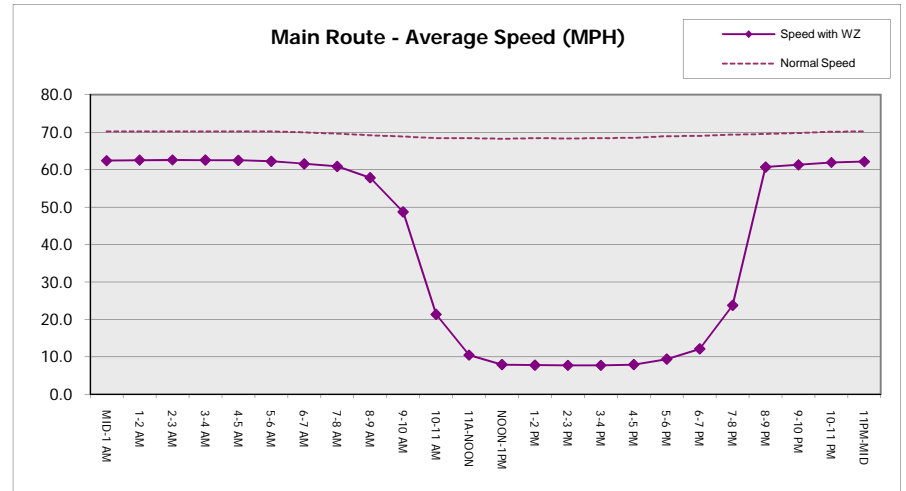
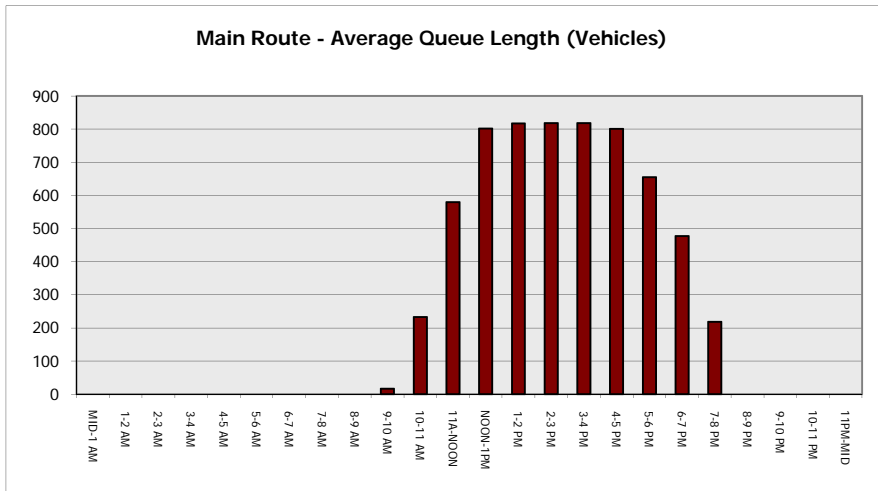
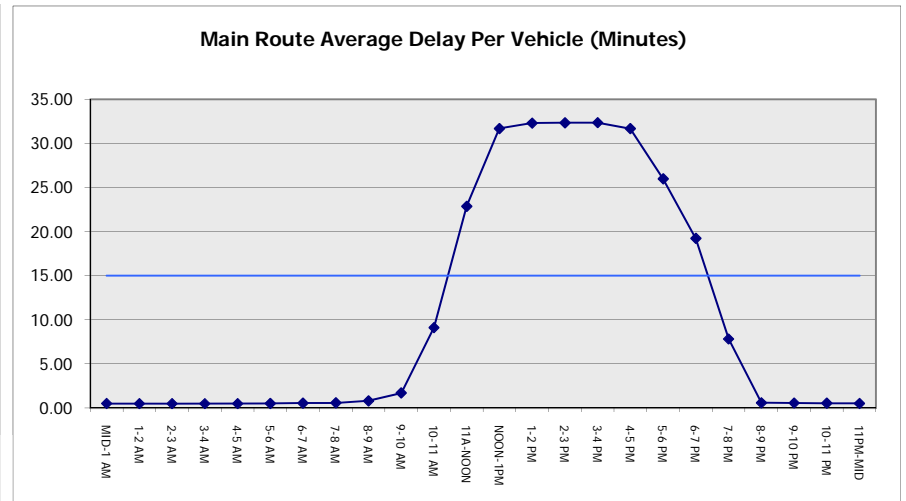
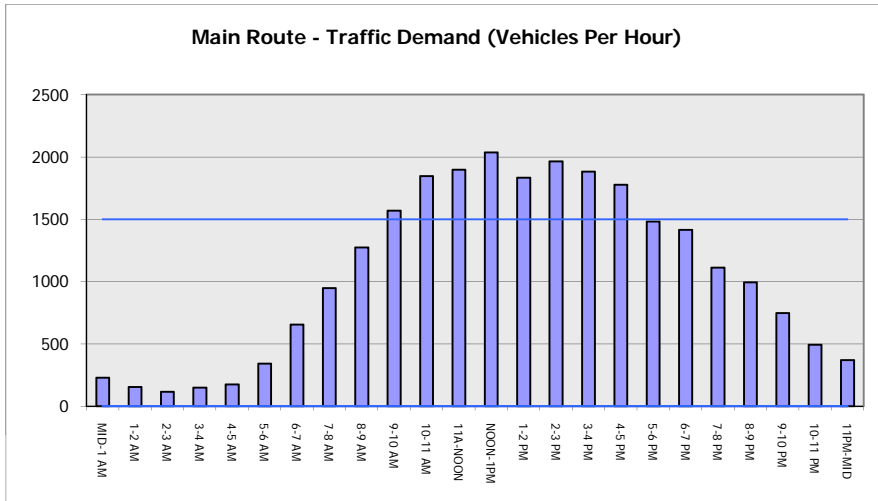
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$139,533
CONGESTED HOURS PER DAY*	8

\*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**  
**SATURDAY 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>	
SATURDAY	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		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	338	0.0	84	0.0	1500	338	0	84	0.51	0	70.2	62.2	44.2	31.3	31.3
1-2 AM	203	0.0	65	0.0	1500	203	0	65	0.50	0	70.2	62.4	44.6	31.8	31.8
2-3 AM	195	0.0	61	0.0	1500	195	0	61	0.50	0	70.2	62.5	44.7	31.9	31.9
3-4 AM	163	0.0	49	0.0	1500	163	0	49	0.49	0	70.2	62.5	44.8	32.2	32.2
4-5 AM	195	0.0	63	0.0	1500	195	0	63	0.50	0	70.2	62.5	44.7	31.9	31.9
5-6 AM	325	0.0	146	0.0	1500	325	0	146	0.51	0	70.2	62.2	44.2	29.7	29.7
6-7 AM	608	0.0	255	0.0	1500	608	0	255	0.54	0	70.0	61.7	43.1	26.8	26.8
7-8 AM	898	0.0	354	0.0	1500	898	0	354	0.58	0	69.6	60.9	42.0	24.2	24.2
8-9 AM	1274	0.0	540	0.0	1499	1274	0	540	0.80	0	69.2	57.8	36.4	19.9	19.9
9-10 AM	1612	0.0	672	0.0	1499	1612	0	672	2.31	36	68.7	44.0	30.8	17.4	17.4
10-11 AM	1900	0.0	715	0.0	1500	1900	0	715	11.51	300	68.4	18.0	30.8	16.5	16.5
11A-NOON	1991	0.0	748	0.0	1499	1806	185	933+	27.14	691	68.2	9.0	30.8	15.9	13.0
NOON-1PM	1991	0.0	728	0.0	1500	1501	490	1218+	32.33	818	68.2	7.7	30.8	16.3	11.2
1-2 PM	1922	0.0	668	0.0	1500	1493	429	1097+	32.26	816	68.4	7.8	30.8	17.5	11.2
2-3 PM	1790	0.0	649	0.0	1500	1415	376	1024+	30.46	769	68.5	8.1	30.8	17.8	11.8
3-4 PM	1809	0.0	614	0.0	1500	1470	339	952+	28.24	711	68.5	8.7	30.8	18.5	12.6
4-5 PM	1758	0.0	565	0.0	1499	1438	320	885+	26.72	671	68.6	9.1	30.8	19.4	13.2
5-6 PM	1575	0.0	518	0.0	1499	1331	244	762	21.96	549	68.7	10.8	30.8	20.4	15.6
6-7 PM	1409	0.0	457	0.0	1500	1345	64	521	15.76	387	69.0	14.2	30.8	21.5	20.3
7-8 PM	1155	0.0	375	0.0	1499	1155	0	375	5.38	156	69.3	29.8	34.7	23.6	23.6
8-9 PM	878	0.0	287	0.0	1500	878	0	287	0.57	0	69.6	61.0	42.1	25.9	25.9
9-10 PM	724	0.0	230	0.0	1500	724	0	230	0.56	0	69.9	61.4	42.7	27.4	27.4
10-11 PM	526	0.0	190	0.0	1500	526	0	190	0.54	0	70.0	61.9	43.4	28.5	28.5
11PM-MID	411	0.0	127	0.0	1500	411	0	127	0.52	0	70.2	62.1	43.8	30.2	30.2

+ 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	0.0192
MAIN ROUTE WITH WORKS	0.0158
DIVERSION	0.1103

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$133,245
CONGESTED HOURS PER DAY*	8

\*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**  
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 Construction Season

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

