

<b>USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)</b> <b>NIGHTTIME 1 LANE CLOSURE</b> <b>DIVERSION ROUTE: BUS 51 - STH 52</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY 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	261	0.0	100	0.0	3000	261	0	100	0.36	0	70.2	64.4	49.7	30.9	30.9
1-2 AM	145	0.0	60	0.0	3000	145	0	60	0.36	0	70.2	64.4	49.7	32.0	32.0
2-3 AM	123	0.0	54	0.0	3000	123	0	54	0.36	0	70.2	64.4	49.7	32.1	32.1
3-4 AM	108	0.0	33	0.0	3000	108	0	33	0.36	0	70.2	64.4	49.7	32.7	32.7
4-5 AM	124	0.0	32	0.0	3000	124	0	32	0.36	0	70.2	64.4	49.7	32.7	32.7
5-6 AM	201	0.0	42	0.0	3000	201	0	42	0.36	0	70.2	64.4	49.7	32.4	32.4
6-7 AM	352	0.0	79	0.0	3000	352	0	79	0.36	0	70.2	64.4	49.7	31.4	31.4
7-8 AM	640	0.0	142	0.0	3000	640	0	142	0.36	0	69.9	64.3	49.7	29.7	29.7
8-9 AM	1117	0.0	227	0.0	3000	1117	0	227	0.35	0	69.4	63.8	49.7	27.5	27.5
9-10 AM	1666	0.0	366	0.0	OFF	1666	0	366	0.00	0	68.7	68.7	68.7	23.8	23.8
10-11 AM	2482	0.0	509	0.0	OFF	2482	0	509	0.00	0	67.6	67.6	67.6	20.5	20.5
11A-NOON	3160	0.0	677	0.0	OFF	3160	0	677	0.00	0	66.8	66.8	66.8	17.3	17.3
NOON-1PM	3571	0.0	762	0.0	OFF	3571	0	762	0.00	0	66.3	66.3	66.3	15.6	15.6
1-2 PM	3792	0.0	810	0.0	OFF	3792	0	810+	0.00	0	65.0	65.0	65.0	14.7	14.7
2-3 PM	3772	0.0	817	0.0	OFF	3772	0	817+	0.00	0	65.1	65.1	65.1	14.5	14.5
3-4 PM	3601	0.0	832	0.0	OFF	3601	0	832+	0.00	0	66.3	66.3	66.3	14.3	14.3
4-5 PM	3237	0.0	791	0.0	OFF	3237	0	791	0.00	0	66.7	66.7	66.7	15.1	15.1
5-6 PM	2682	0.0	724	0.0	OFF	2682	0	724	0.00	0	67.4	67.4	67.4	16.4	16.4
6-7 PM	2135	0.0	634	0.0	OFF	2135	0	634	0.00	0	68.1	68.1	68.1	18.1	18.1
7-8 PM	1614	0.0	532	0.0	3000	1614	0	532	0.34	0	68.7	63.5	49.7	20.1	20.1
8-9 PM	1119	0.0	420	0.0	3000	1119	0	420	0.35	0	69.4	63.8	49.7	22.4	22.4
9-10 PM	790	0.0	302	0.0	3000	790	0	302	0.35	0	69.7	64.1	49.7	25.5	25.5
10-11 PM	498	0.0	206	0.0	3000	498	0	206	0.36	0	70.1	64.4	49.7	28.1	28.1
11PM-MID	259	0.0	108	0.0	3000	259	0	108	0.36	0	70.2	64.4	49.7	30.7	30.7

"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	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	0.0280
MAIN ROUTE WITH WORKS	0.0275
DIVERSION	0.0879

PIA: Personal Injury Accidents

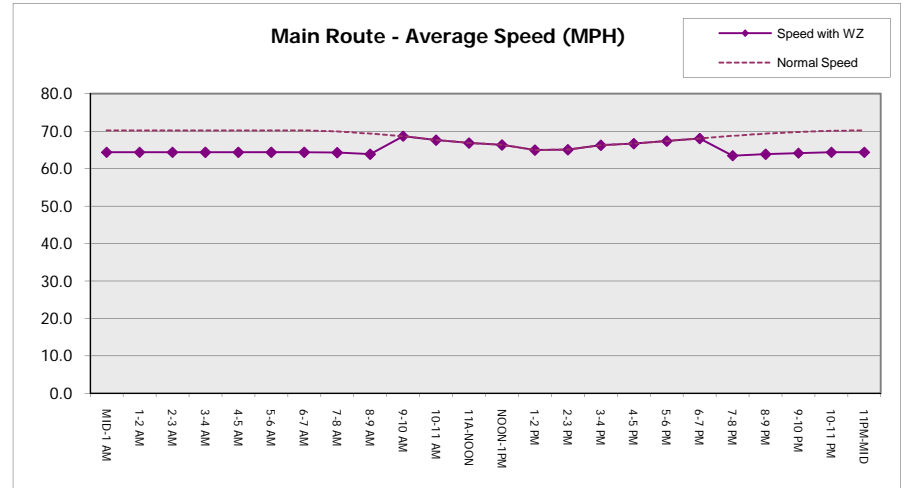
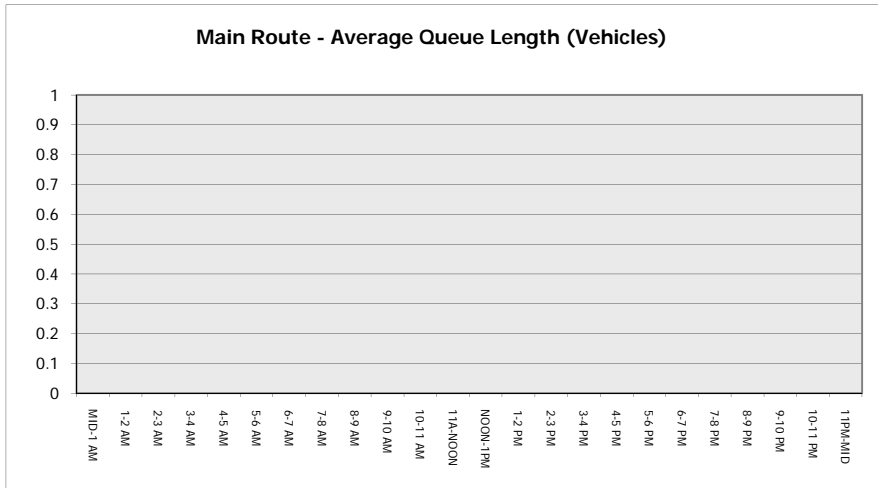
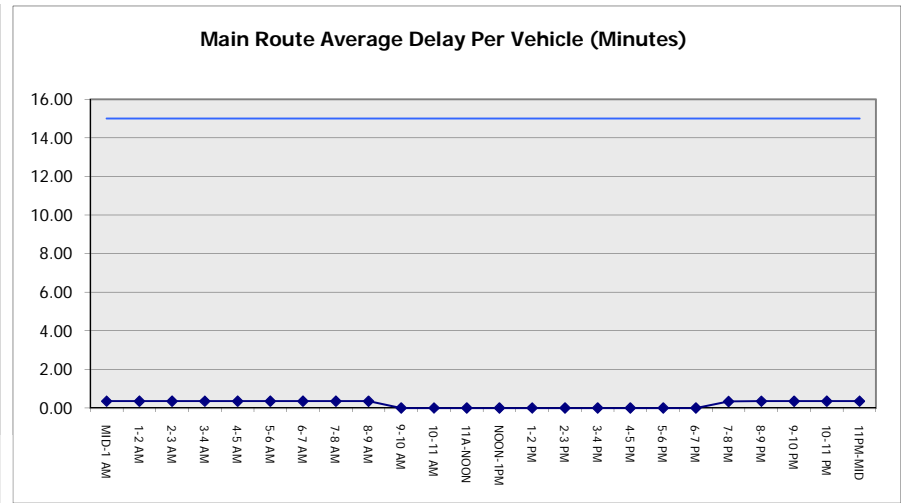
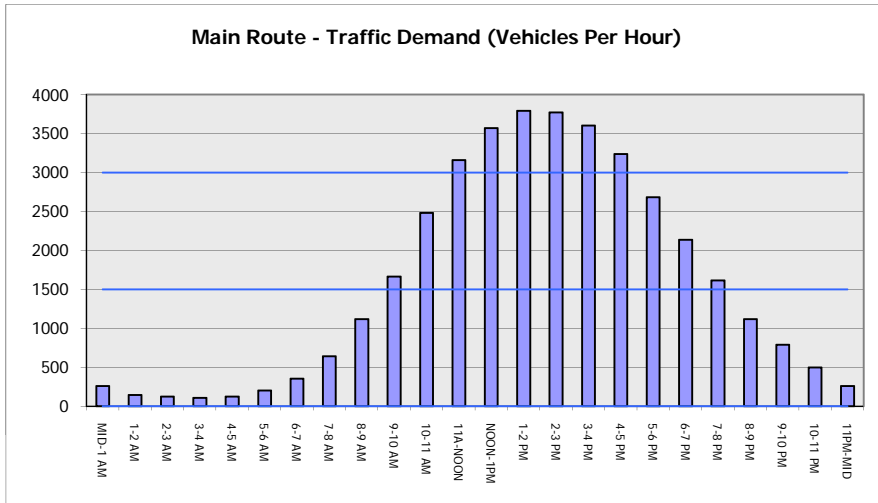
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$588
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)**  
**NIGHTTIME 1 LANE CLOSURE**  
**DIVERSION ROUTE: BUS 51 - STH 52**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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



<b>USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) NIGHTTIME 1 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
SUNDAY	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	252	0.0	90	0.0	3000	252	0	90	0.36	0	70.2	64.4	49.7	31.2	31.2
1-2 AM	150	0.0	62	0.0	3000	150	0	62	0.36	0	70.2	64.4	49.7	31.9	31.9
2-3 AM	132	0.0	50	0.0	3000	132	0	50	0.36	0	70.2	64.4	49.7	32.2	32.2
3-4 AM	96	0.0	39	0.0	3000	96	0	39	0.36	0	70.2	64.4	49.7	32.5	32.5
4-5 AM	94	0.0	33	0.0	3000	94	0	33	0.36	0	70.2	64.4	49.7	32.7	32.7
5-6 AM	154	0.0	73	0.0	3000	154	0	73	0.36	0	70.2	64.4	49.7	31.6	31.6
6-7 AM	305	0.0	122	0.0	3000	305	0	122	0.36	0	70.2	64.4	49.7	30.3	30.3
7-8 AM	418	0.0	182	0.0	3000	418	0	182	0.36	0	70.2	64.4	49.7	28.7	28.7
8-9 AM	687	0.0	301	0.0	3000	687	0	301	0.36	0	69.9	64.2	49.7	25.6	25.6
9-10 AM	1057	0.0	462	0.0	OFF	1057	0	462	0.00	0	69.4	69.4	69.4	21.4	21.4
10-11 AM	1465	0.0	558	0.0	OFF	1465	0	558	0.00	0	68.9	68.9	68.9	19.6	19.6
11A-NOON	1884	0.0	687	0.0	OFF	1884	0	687	0.00	0	68.4	68.4	68.4	17.1	17.1
NOON-1PM	2129	0.0	726	0.0	OFF	2129	0	726	0.00	0	68.1	68.1	68.1	16.3	16.3
1-2 PM	2141	0.0	708	0.0	OFF	2141	0	708	0.00	0	68.1	68.1	68.1	16.7	16.7
2-3 PM	2223	0.0	684	0.0	OFF	2223	0	684	0.00	0	68.0	68.0	68.0	17.1	17.1
3-4 PM	2116	0.0	647	0.0	OFF	2116	0	647	0.00	0	68.1	68.1	68.1	17.8	17.8
4-5 PM	1911	0.0	624	0.0	OFF	1911	0	624	0.00	0	68.4	68.4	68.4	18.3	18.3
5-6 PM	1723	0.0	544	0.0	OFF	1723	0	544	0.00	0	68.6	68.6	68.6	19.9	19.9
6-7 PM	1500	0.0	471	0.0	OFF	1500	0	471	0.00	0	68.9	68.9	68.9	21.2	21.2
7-8 PM	1207	0.0	377	0.0	3000	1207	0	377	0.35	0	69.2	63.8	49.7	23.5	23.5
8-9 PM	971	0.0	306	0.0	3000	971	0	306	0.35	0	69.6	64.0	49.7	25.4	25.4
9-10 PM	730	0.0	234	0.0	3000	730	0	234	0.35	0	69.8	64.1	49.7	27.3	27.3
10-11 PM	516	0.0	170	0.0	3000	516	0	170	0.36	0	70.1	64.3	49.7	29.0	29.0
11PM-MID	312	0.0	132	0.0	3000	312	0	132	0.36	0	70.2	64.4	49.7	30.1	30.1

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

*----- 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	0.0181
MAIN ROUTE WITH WORKS	0.0177
DIVERSION	0.0787

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$487
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
 NIGHTTIME 1 LANE CLOSURE  
 DIVERSION ROUTE: BUS 51 - STH 52**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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

