

<b>USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)</b> <b>NIGHTTIME 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**

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	243	0.0	102	0.0	1500	243	0	102	0.50	0	70.2	62.3	44.5	30.8	30.8
1-2 AM	151	0.0	64	0.0	1500	151	0	64	0.49	0	70.2	62.5	44.9	31.9	31.9
2-3 AM	130	0.0	57	0.0	1500	130	0	57	0.49	0	70.2	62.5	45.0	32.0	32.0
3-4 AM	89	0.0	32	0.0	1500	89	0	32	0.48	0	70.2	62.7	45.1	32.7	32.7
4-5 AM	95	0.0	37	0.0	1500	95	0	37	0.48	0	70.2	62.6	45.1	32.5	32.5
5-6 AM	221	0.0	46	0.0	1500	221	0	46	0.50	0	70.2	62.4	44.6	32.3	32.3
6-7 AM	290	0.0	94	0.0	1500	290	0	94	0.51	0	70.2	62.3	44.3	31.1	31.1
7-8 AM	486	0.0	190	0.0	1500	486	0	190	0.53	0	70.1	61.9	43.5	28.5	28.5
8-9 AM	845	0.0	341	0.0	1500	845	0	341	0.57	0	69.7	61.0	42.2	24.5	24.5
9-10 AM	1523	0.0	464	0.0	OFF	1523	0	464	0.00	0	68.9	68.9	68.9	21.4	21.4
10-11 AM	2233	0.0	587	0.0	OFF	2233	0	587	0.00	0	67.9	67.9	67.9	19.0	19.0
11A-NOON	2863	0.0	789	0.0	OFF	2863	0	789	0.00	0	67.2	67.2	67.2	15.2	15.2
NOON-1PM	3327	0.0	860	0.0	OFF	3327	0	860+	0.00	0	66.6	66.6	66.6	13.7	13.7
1-2 PM	3465	0.0	792	0.0	OFF	3465	0	792	0.00	0	66.4	66.4	66.4	15.1	15.1
2-3 PM	3521	0.0	826	0.0	OFF	3521	0	826+	0.00	0	66.4	66.4	66.4	14.4	14.4
3-4 PM	3334	0.0	801	0.0	OFF	3334	0	801	0.00	0	66.6	66.6	66.6	14.9	14.9
4-5 PM	2809	0.0	728	0.0	OFF	2809	0	728	0.00	0	67.3	67.3	67.3	16.3	16.3
5-6 PM	2263	0.0	664	0.0	OFF	2263	0	664	0.00	0	67.9	67.9	67.9	17.5	17.5
6-7 PM	1789	0.0	573	0.0	OFF	1789	0	573	0.00	0	68.5	68.5	68.5	19.3	19.3
7-8 PM	1209	0.0	475	0.0	1500	1209	0	475	0.72	0	69.2	58.9	38.2	21.2	21.2
8-9 PM	830	0.0	303	0.0	1500	830	0	303	0.57	0	69.7	61.1	42.3	25.5	25.5
9-10 PM	518	0.0	208	0.0	1500	518	0	208	0.53	0	70.1	61.9	43.4	28.0	28.0
10-11 PM	334	0.0	163	0.0	1500	334	0	163	0.51	0	70.2	62.2	44.2	29.2	29.2
11PM-MID	198	0.0	75	0.0	1500	198	0	75	0.50	0	70.2	62.5	44.7	31.5	31.5

"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	0.0245
MAIN ROUTE WITH WORKS	0.0241
DIVERSION	0.0880

PIA: Personal Injury Accidents

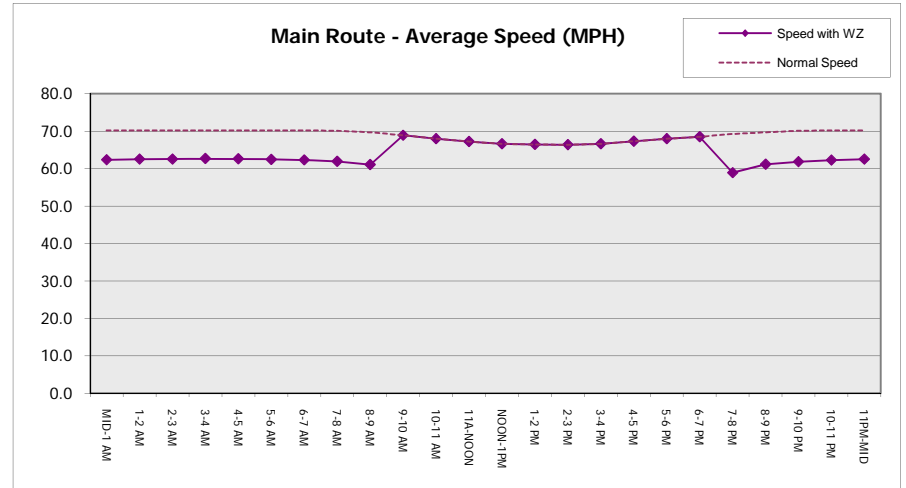
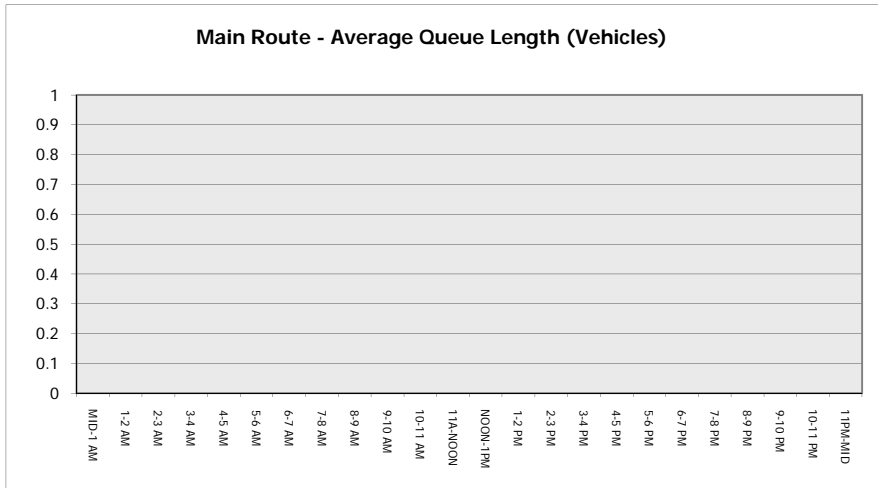
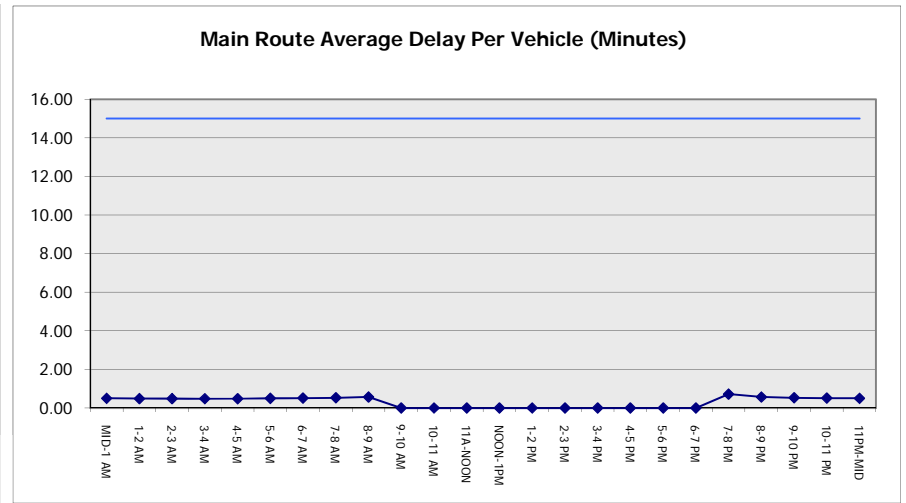
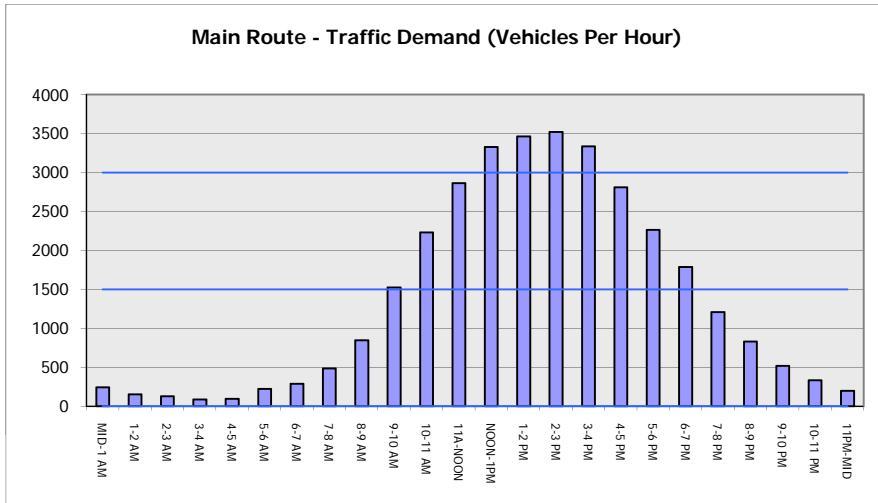
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$759
CONGESTED HOURS PER DAY*	0

\*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**  
**SUNDAY SOUTHBOUND DIRECTION**



<b>USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: BUS 51 - STH 52</b>	<b>OCTOBER</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	258	0.0	118	0.0	1500	258	0	118	0.50	0	70.2	62.3	44.5	30.4	30.4
1-2 AM	182	0.0	73	0.0	1500	182	0	73	0.49	0	70.2	62.5	44.8	31.6	31.6
2-3 AM	140	0.0	64	0.0	1500	140	0	64	0.49	0	70.2	62.5	44.9	31.9	31.9
3-4 AM	102	0.0	38	0.0	1500	102	0	38	0.48	0	70.2	62.6	45.1	32.5	32.5
4-5 AM	84	0.0	38	0.0	1500	84	0	38	0.48	0	70.2	62.7	45.1	32.5	32.5
5-6 AM	175	0.0	85	0.0	1500	175	0	85	0.49	0	70.2	62.5	44.8	31.3	31.3
6-7 AM	299	0.0	119	0.0	1500	299	0	119	0.51	0	70.2	62.3	44.3	30.4	30.4
7-8 AM	424	0.0	194	0.0	1500	424	0	194	0.52	0	70.2	62.0	43.8	28.4	28.4
8-9 AM	679	0.0	286	0.0	1500	679	0	286	0.55	0	69.9	61.5	42.8	26.0	26.0
9-10 AM	1012	0.0	463	0.0	OFF	1012	0	463	0.00	0	69.5	69.5	69.5	21.4	21.4
10-11 AM	1335	0.0	601	0.0	OFF	1335	0	601	0.00	0	69.1	69.1	69.1	18.8	18.8
11A-NOON	1606	0.0	701	0.0	OFF	1606	0	701	0.00	0	68.7	68.7	68.7	16.8	16.8
NOON-1PM	1824	0.0	728	0.0	OFF	1824	0	728	0.00	0	68.5	68.5	68.5	16.3	16.3
1-2 PM	1868	0.0	674	0.0	OFF	1868	0	674	0.00	0	68.4	68.4	68.4	17.3	17.3
2-3 PM	1840	0.0	703	0.0	OFF	1840	0	703	0.00	0	68.4	68.4	68.4	16.8	16.8
3-4 PM	1829	0.0	705	0.0	OFF	1829	0	705	0.00	0	68.4	68.4	68.4	16.8	16.8
4-5 PM	1656	0.0	703	0.0	OFF	1656	0	703	0.00	0	68.7	68.7	68.7	16.8	16.8
5-6 PM	1587	0.0	686	0.0	OFF	1587	0	686	0.00	0	68.7	68.7	68.7	17.1	17.1
6-7 PM	1294	0.0	503	0.0	OFF	1294	0	503	0.00	0	69.1	69.1	69.1	20.6	20.6
7-8 PM	957	0.0	448	0.0	1500	957	0	448	0.58	0	69.6	60.8	41.9	21.7	21.7
8-9 PM	696	0.0	391	0.0	1500	696	0	391	0.55	0	69.9	61.4	42.8	23.2	23.2
9-10 PM	527	0.0	238	0.0	1500	527	0	238	0.54	0	70.0	61.9	43.4	27.2	27.2
10-11 PM	368	0.0	133	0.0	1500	368	0	133	0.52	0	70.2	62.2	44.0	30.0	30.0
11PM-MID	212	0.0	67	0.0	1500	212	0	67	0.50	0	70.2	62.4	44.6	31.7	31.7

"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	0.0157
MAIN ROUTE WITH WORKS	0.0153
DIVERSION	0.0832

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$640
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**  
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 Construction Season

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

