

USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52	AUGUST
	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	105	0.0	1500	261	0	105	0.50	0	70.2	62.3	44.5	30.7	30.7
1-2 AM	145	0.0	63	0.0	1500	145	0	63	0.49	0	70.2	62.5	44.9	31.9	31.9
2-3 AM	123	0.0	56	0.0	1500	123	0	56	0.49	0	70.2	62.6	45.0	32.0	32.0
3-4 AM	108	0.0	35	0.0	1500	108	0	35	0.49	0	70.2	62.6	45.1	32.6	32.6
4-5 AM	124	0.0	34	0.0	1500	124	0	34	0.49	0	70.2	62.6	45.0	32.7	32.7
5-6 AM	201	0.0	44	0.0	1500	201	0	44	0.50	0	70.2	62.5	44.6	32.4	32.4
6-7 AM	352	0.0	83	0.0	1500	352	0	83	0.52	0	70.2	62.2	44.1	31.3	31.3
7-8 AM	640	0.0	149	0.0	1500	640	0	149	0.55	0	69.9	61.5	43.0	29.6	29.6
8-9 AM	1117	0.0	239	0.0	1499	1117	0	239	0.67	0	69.4	59.5	39.4	27.2	27.2
9-10 AM	1666	0.0	385	0.0	OFF	1666	0	385	0.00	0	68.7	68.7	68.7	23.3	23.3
10-11 AM	2482	0.0	534	0.0	OFF	2482	0	534	0.00	0	67.6	67.6	67.6	20.0	20.0
11A-NOON	3160	0.0	711	0.0	OFF	3160	0	711	0.00	0	66.8	66.8	66.8	16.6	16.6
NOON-1PM	3571	0.0	800	0.0	OFF	3571	0	800	0.00	0	66.3	66.3	66.3	14.9	14.9
1-2 PM	3792	0.0	851	0.0	OFF	3792	0	851+	0.00	0	65.0	65.0	65.0	13.8	13.8
2-3 PM	3772	0.0	858	0.0	OFF	3772	0	858+	0.00	0	65.1	65.1	65.1	13.7	13.7
3-4 PM	3601	0.0	874	0.0	OFF	3601	0	874+	0.00	0	66.3	66.3	66.3	13.4	13.4
4-5 PM	3237	0.0	830	0.0	OFF	3237	0	830+	0.00	0	66.7	66.7	66.7	14.3	14.3
5-6 PM	2682	0.0	760	0.0	OFF	2682	0	760	0.00	0	67.4	67.4	67.4	15.7	15.7
6-7 PM	2135	0.0	666	0.0	OFF	2135	0	666	0.00	0	68.1	68.1	68.1	17.5	17.5
7-8 PM	1614	0.0	559	0.0	1499	1614	0	559	4.35	88	68.7	33.3	30.8	19.6	19.6
8-9 PM	1119	0.0	441	0.0	1500	1119	0	441	1.35	23	69.4	52.0	38.6	21.9	21.9
9-10 PM	790	0.0	317	0.0	1500	790	0	317	0.56	0	69.7	61.2	42.4	25.2	25.2
10-11 PM	498	0.0	216	0.0	1500	498	0	216	0.53	0	70.1	61.9	43.5	27.8	27.8
11PM-MID	259	0.0	114	0.0	1500	259	0	114	0.50	0	70.2	62.3	44.5	30.6	30.6

"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	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	0.0924

PIA: Personal Injury Accidents

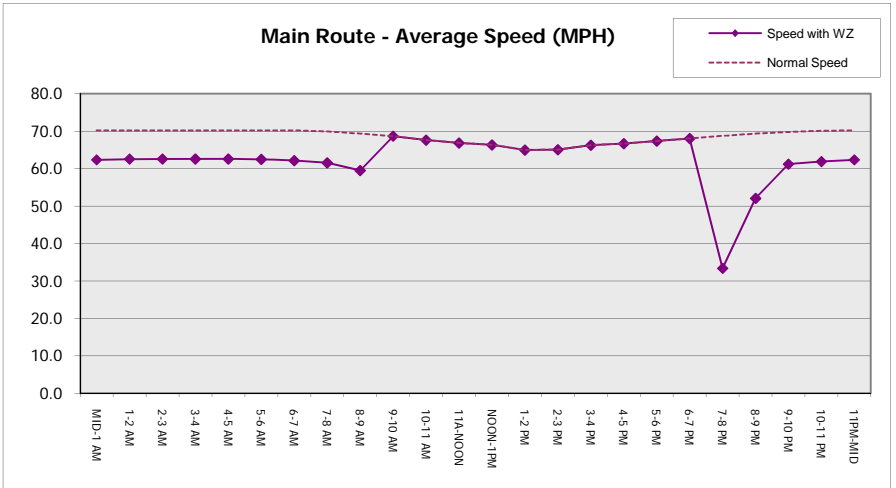
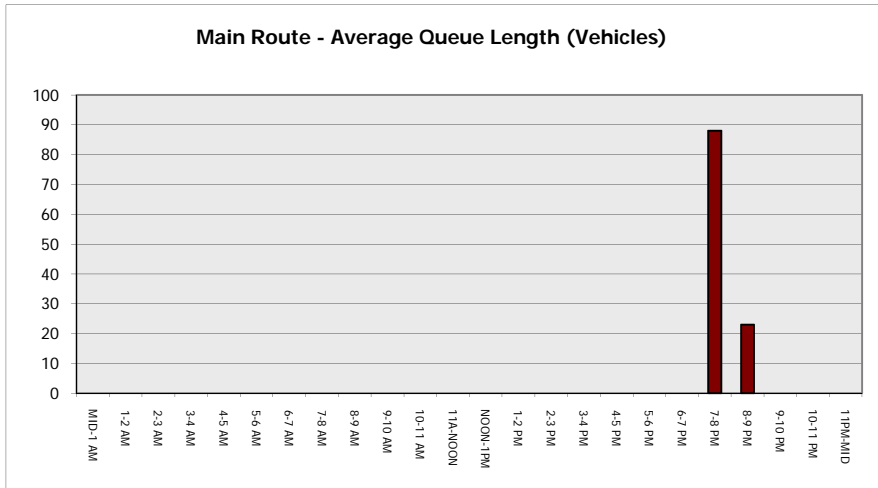
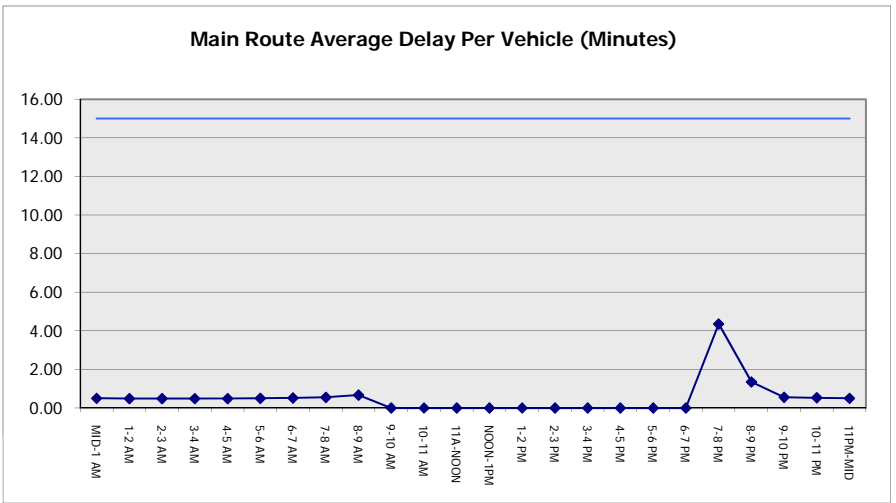
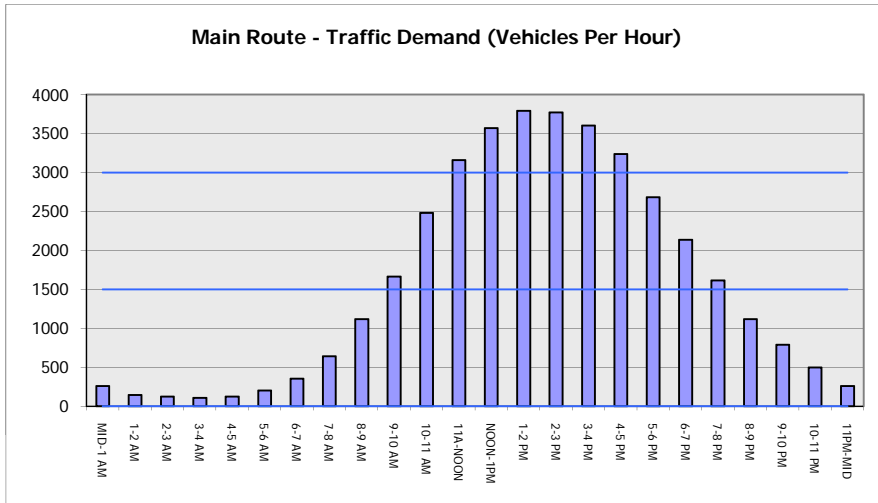
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$2,814
CONGESTED HOURS PER DAY*	0

*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**

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



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

SUMMARY OF TRAFFIC MODEL OUTPUT

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	94	0.0	1500	252	0	94	0.50	0	70.2	62.3	44.5	31.1	31.1
1-2 AM	150	0.0	65	0.0	1500	150	0	65	0.49	0	70.2	62.5	44.9	31.8	31.8
2-3 AM	132	0.0	53	0.0	1500	132	0	53	0.49	0	70.2	62.5	45.0	32.1	32.1
3-4 AM	96	0.0	41	0.0	1500	96	0	41	0.48	0	70.2	62.6	45.1	32.4	32.4
4-5 AM	94	0.0	35	0.0	1500	94	0	35	0.48	0	70.2	62.6	45.1	32.6	32.6
5-6 AM	154	0.0	77	0.0	1500	154	0	77	0.49	0	70.2	62.5	44.8	31.5	31.5
6-7 AM	305	0.0	129	0.0	1500	305	0	129	0.51	0	70.2	62.3	44.3	30.1	30.1
7-8 AM	418	0.0	191	0.0	1500	418	0	191	0.52	0	70.2	62.1	43.8	28.4	28.4
8-9 AM	687	0.0	316	0.0	1500	687	0	316	0.55	0	69.9	61.5	42.8	25.2	25.2
9-10 AM	1057	0.0	485	0.0	OFF	1057	0	485	0.00	0	69.4	69.4	69.4	21.0	21.0
10-11 AM	1465	0.0	586	0.0	OFF	1465	0	586	0.00	0	68.9	68.9	68.9	19.0	19.0
11A-NOON	1884	0.0	721	0.0	OFF	1884	0	721	0.00	0	68.4	68.4	68.4	16.5	16.5
NOON-1PM	2129	0.0	762	0.0	OFF	2129	0	762	0.00	0	68.1	68.1	68.1	15.6	15.6
1-2 PM	2141	0.0	744	0.0	OFF	2141	0	744	0.00	0	68.1	68.1	68.1	16.0	16.0
2-3 PM	2223	0.0	718	0.0	OFF	2223	0	718	0.00	0	68.0	68.0	68.0	16.5	16.5
3-4 PM	2116	0.0	680	0.0	OFF	2116	0	680	0.00	0	68.1	68.1	68.1	17.2	17.2
4-5 PM	1911	0.0	655	0.0	OFF	1911	0	655	0.00	0	68.4	68.4	68.4	17.7	17.7
5-6 PM	1723	0.0	571	0.0	OFF	1723	0	571	0.00	0	68.6	68.6	68.6	19.3	19.3
6-7 PM	1500	0.0	495	0.0	OFF	1500	0	495	0.00	0	68.9	68.9	68.9	20.7	20.7
7-8 PM	1207	0.0	396	0.0	1500	1207	0	396	0.72	0	69.2	58.9	38.3	23.0	23.0
8-9 PM	971	0.0	321	0.0	1500	971	0	321	0.58	0	69.6	60.8	41.8	25.0	25.0
9-10 PM	730	0.0	245	0.0	1500	730	0	245	0.56	0	69.8	61.4	42.7	27.0	27.0
10-11 PM	516	0.0	178	0.0	1500	516	0	178	0.53	0	70.1	61.9	43.5	28.8	28.8
11PM-MID	312	0.0	138	0.0	1500	312	0	138	0.51	0	70.2	62.2	44.2	29.9	29.9

"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	0.0826

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$874
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**

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY NORTHBOUND DIRECTION

