

USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) NIGHTTIME 1 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52	OCTOBER
	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	3000	243	0	102	0.36	0	70.2	64.4	49.7	30.8	30.8
1-2 AM	151	0.0	64	0.0	3000	151	0	64	0.36	0	70.2	64.4	49.7	31.9	31.9
2-3 AM	130	0.0	57	0.0	3000	130	0	57	0.36	0	70.2	64.4	49.7	32.0	32.0
3-4 AM	89	0.0	32	0.0	3000	89	0	32	0.36	0	70.2	64.4	49.7	32.7	32.7
4-5 AM	95	0.0	37	0.0	3000	95	0	37	0.36	0	70.2	64.4	49.7	32.5	32.5
5-6 AM	221	0.0	46	0.0	3000	221	0	46	0.36	0	70.2	64.4	49.7	32.3	32.3
6-7 AM	290	0.0	94	0.0	3000	290	0	94	0.36	0	70.2	64.4	49.7	31.1	31.1
7-8 AM	486	0.0	190	0.0	3000	486	0	190	0.36	0	70.1	64.4	49.7	28.5	28.5
8-9 AM	845	0.0	341	0.0	3000	845	0	341	0.35	0	69.7	64.1	49.7	25.5	25.5
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	3000	1209	0	475	0.35	0	69.2	63.8	49.7	21.2	21.2
8-9 PM	830	0.0	303	0.0	3000	830	0	303	0.35	0	69.7	64.1	49.7	25.5	25.5
9-10 PM	518	0.0	208	0.0	3000	518	0	208	0.36	0	70.1	64.3	49.7	28.0	28.0
10-11 PM	334	0.0	163	0.0	3000	334	0	163	0.36	0	70.2	64.4	49.7	29.2	29.2
11PM-MID	198	0.0	75	0.0	3000	198	0	75	0.36	0	70.2	64.4	49.7	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 (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	0.0245
MAIN ROUTE WITH WORKS	0.0241
DIVERSION	0.0880

PIA: Personal Injury Accidents

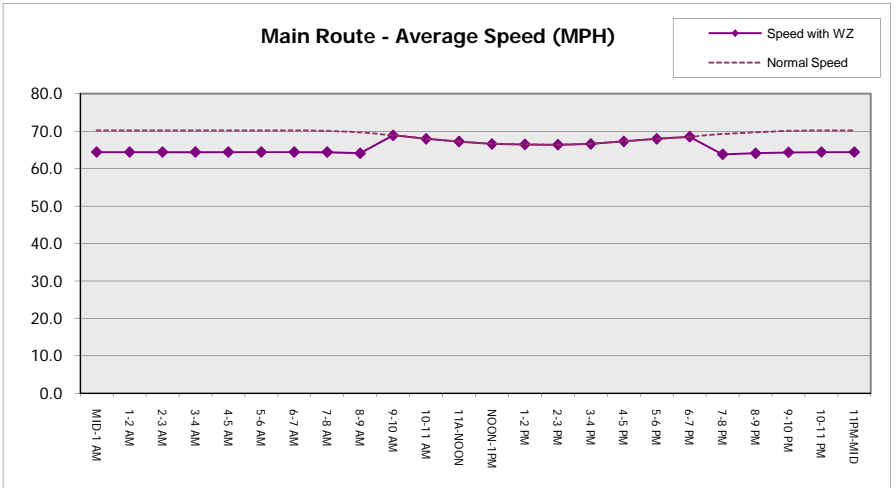
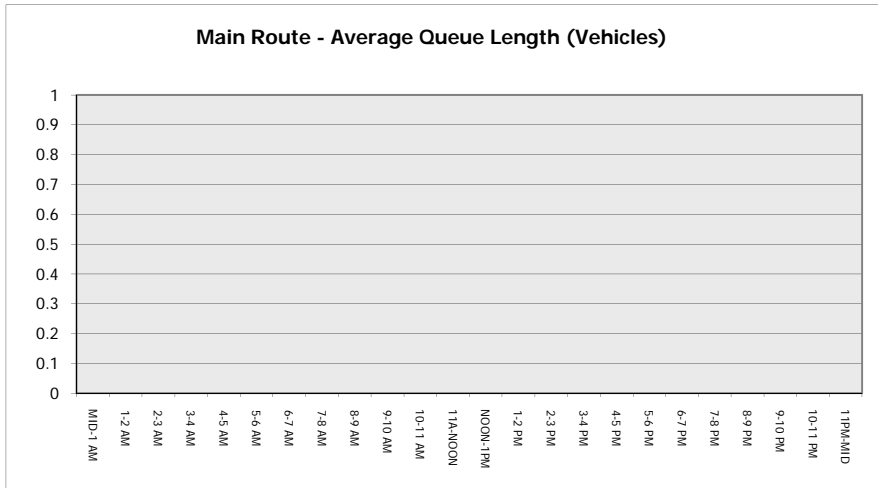
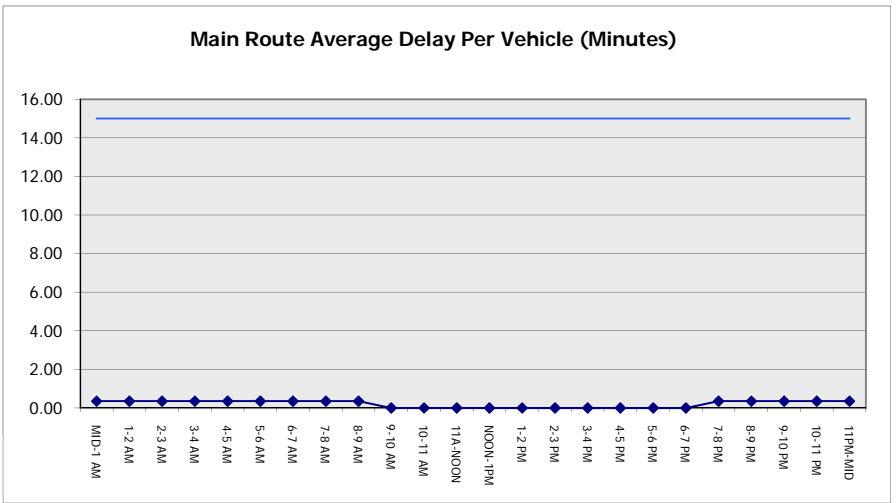
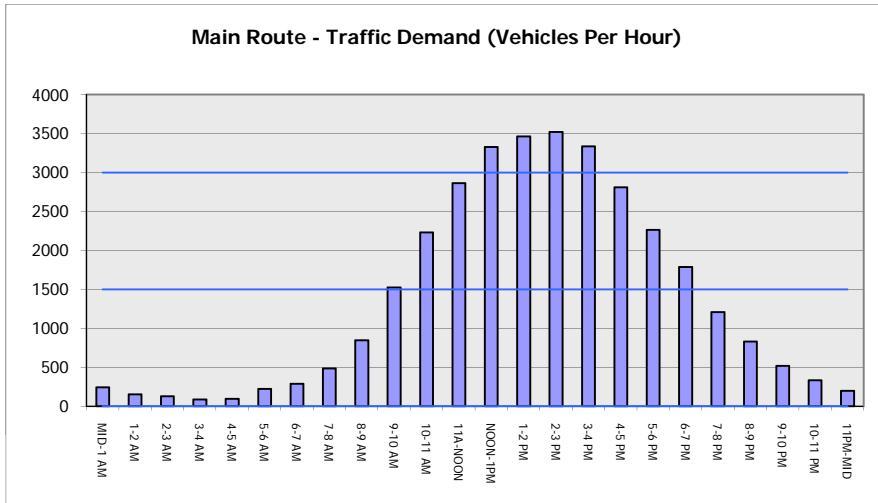
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$452
CONGESTED HOURS PER DAY*	0

*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

OCTOBER
 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 1 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52	OCTOBER
	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	258	0.0	118	0.0	3000	258	0	118	0.36	0	70.2	64.4	49.7	30.4	30.4
1-2 AM	182	0.0	73	0.0	3000	182	0	73	0.36	0	70.2	64.4	49.7	31.6	31.6
2-3 AM	140	0.0	64	0.0	3000	140	0	64	0.36	0	70.2	64.4	49.7	31.9	31.9
3-4 AM	102	0.0	38	0.0	3000	102	0	38	0.36	0	70.2	64.4	49.7	32.5	32.5
4-5 AM	84	0.0	38	0.0	3000	84	0	38	0.36	0	70.2	64.4	49.7	32.5	32.5
5-6 AM	175	0.0	85	0.0	3000	175	0	85	0.36	0	70.2	64.4	49.7	31.3	31.3
6-7 AM	299	0.0	119	0.0	3000	299	0	119	0.36	0	70.2	64.4	49.7	30.4	30.4
7-8 AM	424	0.0	194	0.0	3000	424	0	194	0.36	0	70.2	64.4	49.7	28.4	28.4
8-9 AM	679	0.0	286	0.0	3000	679	0	286	0.36	0	69.9	64.2	49.7	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	3000	957	0	448	0.35	0	69.6	64.0	49.7	21.7	21.7
8-9 PM	696	0.0	391	0.0	3000	696	0	391	0.36	0	69.9	64.2	49.7	23.2	23.2
9-10 PM	527	0.0	238	0.0	3000	527	0	238	0.36	0	70.0	64.3	49.7	27.2	27.2
10-11 PM	368	0.0	133	0.0	3000	368	0	133	0.36	0	70.2	64.4	49.7	30.0	30.0
11PM-MID	212	0.0	67	0.0	3000	212	0	67	0.36	0	70.2	64.4	49.7	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)	\$413
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**

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY NORTHBOUND DIRECTION

