

USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) CONTINUOUS (24 HOUR) 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	24.5	24.5
9-10 AM	1523	0.0	464	0.0	3000	1523	0	464	0.34	0	68.9	63.5	49.7	21.4	21.4
10-11 AM	2233	0.0	587	0.0	3000	2233	0	587	0.33	0	67.9	62.9	49.7	19.0	19.0
11A-NOON	2863	0.0	789	0.0	2999	2863	0	789	0.64	0	67.2	58.3	39.6	15.2	15.2
NOON-1PM	3327	0.0	860	0.0	2999	3327	0	860+	3.04	144	66.6	38.8	37.3	13.7	13.7
1-2 PM	3465	0.0	792	0.0	3000	3465	0	792	10.38	553	66.4	19.3	37.3	15.1	15.1
2-3 PM	3521	0.0	826	0.0	3000	3521	0	826+	19.68	1056	66.4	12.5	37.3	14.4	14.9
3-4 PM	3334	0.0	801	0.0	2998	3235	98	899+	27.28	1464	66.6	10.9	37.3	14.9	14.7
4-5 PM	2809	0.0	728	0.0	3000	2668	142	870+	26.31	1410	67.3	11.0	37.3	16.3	15.0
5-6 PM	2263	0.0	664	0.0	2999	2252	11	675	15.89	870	67.9	14.5	38.0	17.5	17.6
6-7 PM	1789	0.0	573	0.0	3000	1789	0	573	1.45	101	68.5	50.6	49.7	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

+ 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	0.0222
DIVERSION	0.0904

PIA: Personal Injury Accidents

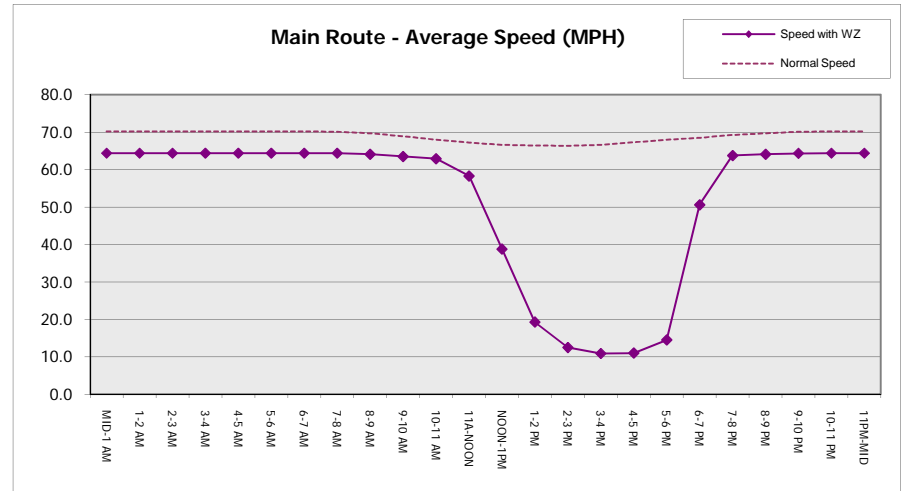
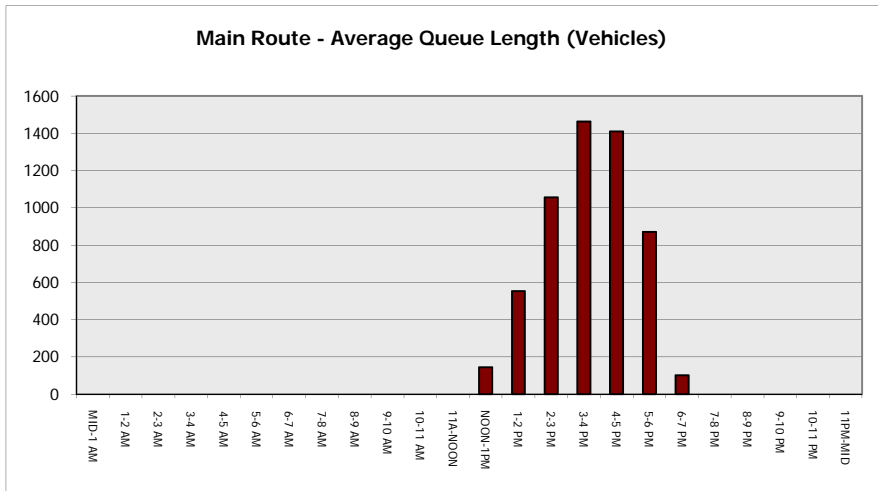
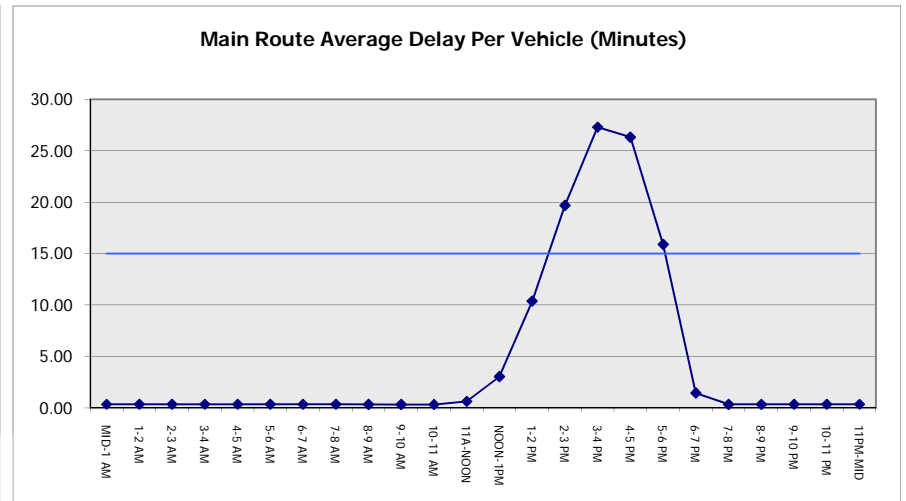
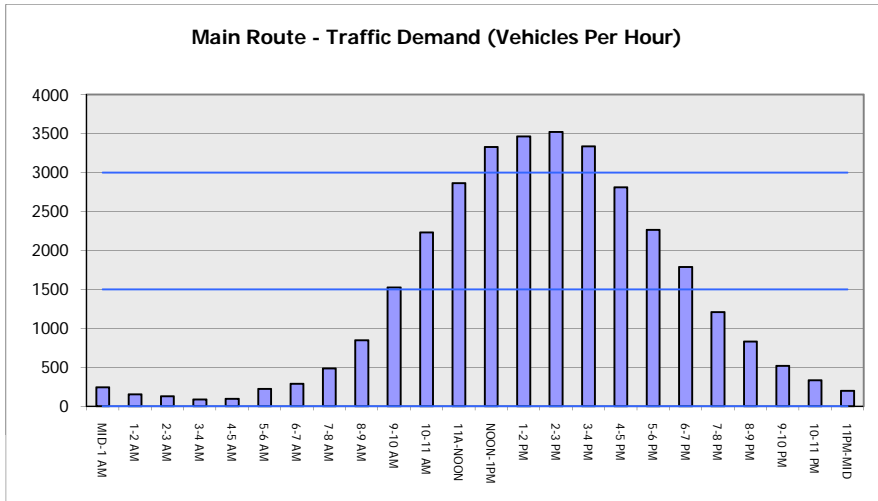
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$93,880
CONGESTED HOURS PER DAY*	4

*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 CONTINUOUS (24 HOUR) 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) CONTINUOUS (24 HOUR) 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	3000	1012	0	463	0.35	0	69.5	64.0	49.7	21.4	21.4
10-11 AM	1335	0.0	601	0.0	3000	1335	0	601	0.35	0	69.1	63.7	49.7	18.8	18.8
11A-NOON	1606	0.0	701	0.0	3000	1606	0	701	0.34	0	68.7	63.5	49.7	16.8	16.8
NOON-1PM	1824	0.0	728	0.0	3000	1824	0	728	0.34	0	68.5	63.3	49.7	16.3	16.3
1-2 PM	1868	0.0	674	0.0	3000	1868	0	674	0.34	0	68.4	63.2	49.7	17.3	17.3
2-3 PM	1840	0.0	703	0.0	3000	1840	0	703	0.34	0	68.4	63.3	49.7	16.8	16.8
3-4 PM	1829	0.0	705	0.0	3000	1829	0	705	0.34	0	68.4	63.3	49.7	16.8	16.8
4-5 PM	1656	0.0	703	0.0	3000	1656	0	703	0.34	0	68.7	63.4	49.7	16.8	16.8
5-6 PM	1587	0.0	686	0.0	3000	1587	0	686	0.34	0	68.7	63.5	49.7	17.1	17.1
6-7 PM	1294	0.0	503	0.0	3000	1294	0	503	0.35	0	69.1	63.7	49.7	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

----- 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	0.0143
DIVERSION	0.0832

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$2,102
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 CONTINUOUS (24 HOUR) 1 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

