

**IH 39: STH 29E TO STH 34/CTH C (MARATHON COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: BUS 51, STH 29**

MAY
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	121	0.0	62	0.0	1500	121	0	62	0.43	0	66.1	55.1	45.0	28.4	28.4
1-2 AM	71	0.0	36	0.0	1500	71	0	36	0.43	0	66.3	55.3	45.2	28.9	28.9
2-3 AM	52	0.0	27	0.0	1500	52	0	27	0.43	0	66.3	55.4	45.3	29.2	29.2
3-4 AM	52	0.0	27	0.0	1500	52	0	27	0.43	0	66.3	55.4	45.3	29.2	29.2
4-5 AM	62	0.0	31	0.0	1500	62	0	31	0.43	0	66.3	55.3	45.3	29.1	29.1
5-6 AM	111	0.0	57	0.0	1500	111	0	57	0.43	0	66.2	55.2	45.0	28.5	28.5
6-7 AM	201	0.0	102	0.0	1500	201	0	102	0.44	0	66.0	54.9	44.6	27.4	27.4
7-8 AM	312	0.0	160	0.0	1500	312	0	160	0.45	0	65.8	54.5	44.2	26.1	26.1
8-9 AM	523	0.0	267	0.0	1500	523	0	267	0.47	0	65.4	53.8	43.4	23.6	23.6
9-10 AM	765	0.0	390	0.0	1500	765	0	390	0.50	0	65.0	53.0	42.5	20.7	20.7
10-11 AM	1056	0.0	539	0.0	1500	1056	0	539	0.52	0	64.4	52.2	41.5	17.8	17.8
11A-NOON	1296	0.0	661	0.0	1500	1296	0	661	0.76	0	64.0	47.8	35.6	15.6	15.6
NOON-1PM	1462	0.0	746	0.0	1499	1462	0	746	0.98	0	63.7	44.5	31.5	14.0	14.0
1-2 PM	1489	0.0	760	0.0	1499	1489	0	760	1.02	0	63.6	43.8	31.1	13.8	13.8
2-3 PM	1363	0.0	696	0.0	1500	1363	0	696	0.85	0	63.8	46.4	33.8	14.9	14.9
3-4 PM	1361	0.0	695	0.0	1500	1361	0	695	0.84	0	63.8	46.5	33.9	15.0	15.0
4-5 PM	1250	0.0	638	0.0	1500	1250	0	638	0.70	0	64.0	48.8	36.9	16.0	16.0
5-6 PM	1049	0.0	535	0.0	1500	1049	0	535	0.52	0	64.5	52.2	41.5	17.9	17.9
6-7 PM	871	0.0	445	0.0	1500	871	0	445	0.51	0	64.8	52.7	42.2	19.5	19.5
7-8 PM	732	0.0	374	0.0	1500	732	0	374	0.49	0	65.0	53.2	42.7	21.1	21.1
8-9 PM	515	0.0	263	0.0	1500	515	0	263	0.47	0	65.5	53.8	43.5	23.7	23.7
9-10 PM	413	0.0	210	0.0	1500	413	0	210	0.46	0	65.6	54.2	43.8	24.9	24.9
10-11 PM	240	0.0	123	0.0	1500	240	0	123	0.45	0	66.0	54.8	44.5	27.0	27.0
11PM-MID	144	0.0	73	0.0	1500	144	0	73	0.44	0	66.1	55.1	44.9	28.1	28.1

----- 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		0.0059
MAIN ROUTE WITH WORKS		0.0049
DIVERSION		0.0456

PIA: Personal Injury Accidents

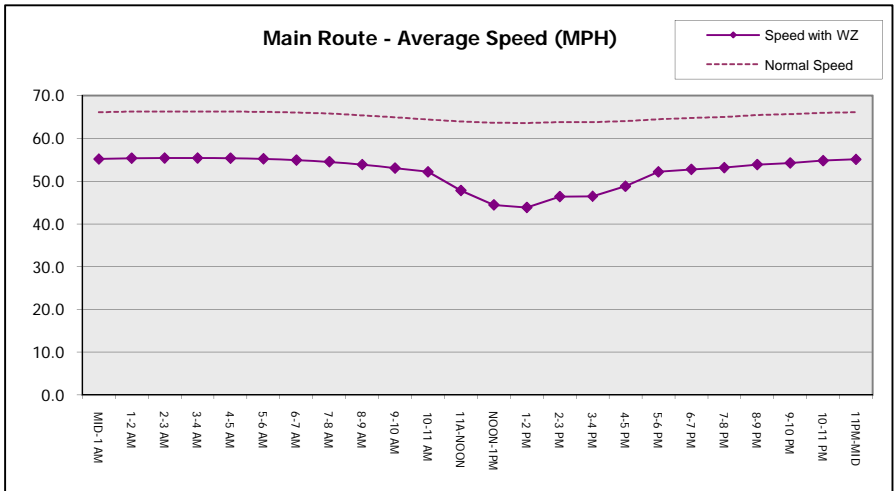
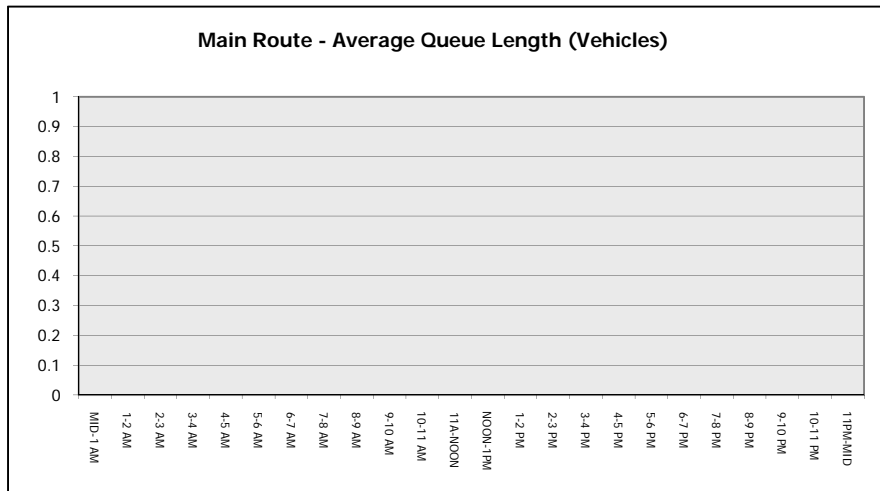
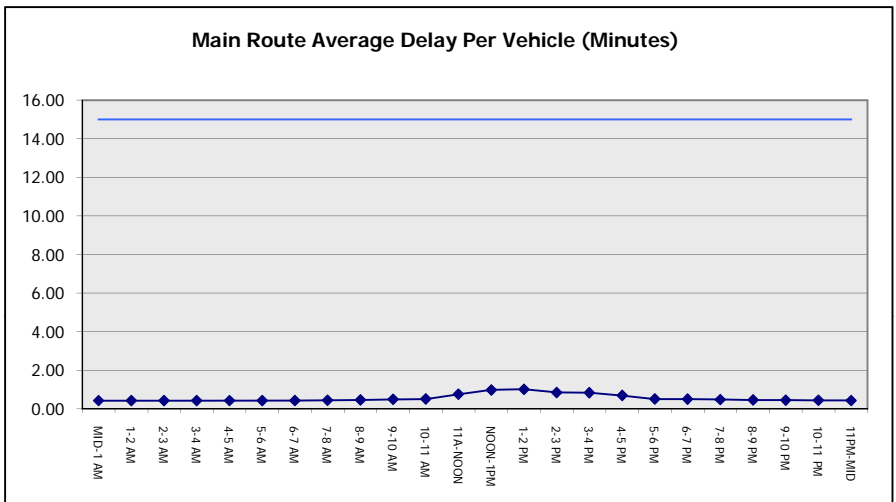
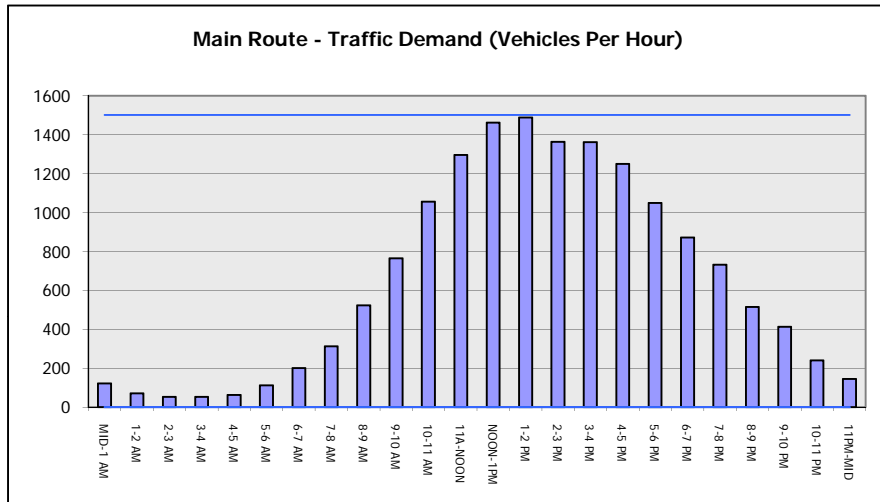
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$2,792
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: BUS 51, STH 29**

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



IH 39: STH 29E TO STH 34/CTH C (MARATHON COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: BUS 51, STH 29	MAY
	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			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		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	153	0.0	78	0.0	1500	153	0	78	0.44	0	66.1	55.0	44.9	28.0	28.0
1-2 AM	80	0.0	41	0.0	1500	80	0	41	0.43	0	66.3	55.3	45.1	28.8	28.8
2-3 AM	64	0.0	33	0.0	1500	64	0	33	0.43	0	66.3	55.3	45.2	29.1	29.1
3-4 AM	45	0.0	23	0.0	1500	45	0	23	0.43	0	66.3	55.4	45.3	29.2	29.2
4-5 AM	44	0.0	23	0.0	1500	44	0	23	0.43	0	66.3	55.4	45.3	29.2	29.2
5-6 AM	86	0.0	44	0.0	1500	86	0	44	0.43	0	66.2	55.3	45.1	28.8	28.8
6-7 AM	176	0.0	90	0.0	1500	176	0	90	0.44	0	66.1	55.0	44.8	27.7	27.7
7-8 AM	248	0.0	127	0.0	1500	248	0	127	0.45	0	66.0	54.7	44.5	26.8	26.8
8-9 AM	376	0.0	191	0.0	1500	376	0	191	0.46	0	65.7	54.3	44.0	25.3	25.3
9-10 AM	606	0.0	310	0.0	1500	606	0	310	0.48	0	65.3	53.6	43.1	22.5	22.5
10-11 AM	734	0.0	375	0.0	1500	734	0	375	0.49	0	65.0	53.2	42.7	21.1	21.1
11A-NOON	882	0.0	450	0.0	1500	882	0	450	0.51	0	64.8	52.7	42.1	19.4	19.4
NOON-1PM	957	0.0	488	0.0	1500	957	0	488	0.51	0	64.6	52.5	41.9	18.7	18.7
1-2 PM	1008	0.0	515	0.0	1500	1008	0	515	0.52	0	64.5	52.3	41.7	18.3	18.3
2-3 PM	991	0.0	505	0.0	1500	991	0	505	0.52	0	64.5	52.4	41.7	18.4	18.4
3-4 PM	938	0.0	479	0.0	1500	938	0	479	0.51	0	64.6	52.5	41.9	18.9	18.9
4-5 PM	920	0.0	469	0.0	1500	920	0	469	0.51	0	64.6	52.6	42.0	19.1	19.1
5-6 PM	814	0.0	416	0.0	1500	814	0	416	0.50	0	64.9	52.9	42.4	20.1	20.1
6-7 PM	695	0.0	354	0.0	1500	695	0	354	0.49	0	65.1	53.3	42.8	21.5	21.5
7-8 PM	642	0.0	327	0.0	1500	642	0	327	0.48	0	65.2	53.5	43.0	22.2	22.2
8-9 PM	531	0.0	271	0.0	1500	531	0	271	0.47	0	65.4	53.8	43.4	23.5	23.5
9-10 PM	381	0.0	195	0.0	1500	381	0	195	0.46	0	65.7	54.3	44.0	25.3	25.3
10-11 PM	301	0.0	153	0.0	1500	301	0	153	0.45	0	65.8	54.5	44.3	26.2	26.2
11PM-MID	187	0.0	96	0.0	1500	187	0	96	0.44	0	66.0	54.9	44.7	27.6	27.6

----- 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	0.0045
MAIN ROUTE WITH WORKS	0.0037
DIVERSION	0.0349

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,528
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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 DIVERSION ROUTE: BUS 51, STH 29**

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SUNDAY NORTHBOUND DIRECTION

