

**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
SATURDAY 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	157	0.0	80	0.0	1500	157	0	80	0.44	0	66.1	55.0	44.8	27.9	27.9
1-2 AM	74	0.0	38	0.0	1500	74	0	38	0.43	0	66.3	55.3	45.2	28.9	28.9
2-3 AM	69	0.0	35	0.0	1500	69	0	35	0.43	0	66.3	55.3	45.2	29.0	29.0
3-4 AM	92	0.0	46	0.0	1500	92	0	46	0.43	0	66.2	55.3	45.1	28.8	28.8
4-5 AM	93	0.0	47	0.0	1500	93	0	47	0.43	0	66.2	55.3	45.1	28.7	28.7
5-6 AM	187	0.0	96	0.0	1500	187	0	96	0.44	0	66.0	54.9	44.7	27.6	27.6
6-7 AM	342	0.0	174	0.0	1500	342	0	174	0.46	0	65.8	54.4	44.1	25.8	25.8
7-8 AM	509	0.0	259	0.0	1500	509	0	259	0.47	0	65.5	53.8	43.5	23.7	23.7
8-9 AM	771	0.0	393	0.0	1500	771	0	393	0.50	0	65.0	53.0	42.5	20.6	20.6
9-10 AM	854	0.0	436	0.0	1500	854	0	436	0.51	0	64.8	52.8	42.2	19.7	19.7
10-11 AM	1032	0.0	527	0.0	1500	1032	0	527	0.52	0	64.5	52.2	41.5	18.0	18.0
11A-NOON	1018	0.0	520	0.0	1500	1018	0	520	0.52	0	64.5	52.3	41.6	18.1	18.1
NOON-1PM	1070	0.0	547	0.0	1500	1070	0	547	0.53	0	64.4	52.1	41.4	17.6	17.6
1-2 PM	1047	0.0	534	0.0	1500	1047	0	534	0.52	0	64.5	52.2	41.5	17.9	17.9
2-3 PM	919	0.0	469	0.0	1500	919	0	469	0.51	0	64.6	52.6	42.0	19.1	19.1
3-4 PM	1014	0.0	518	0.0	1500	1014	0	518	0.52	0	64.5	52.3	41.6	18.2	18.2
4-5 PM	888	0.0	453	0.0	1500	888	0	453	0.51	0	64.7	52.7	42.1	19.4	19.4
5-6 PM	801	0.0	409	0.0	1500	801	0	409	0.50	0	64.9	53.0	42.4	20.2	20.2
6-7 PM	714	0.0	364	0.0	1500	714	0	364	0.49	0	65.1	53.2	42.7	21.3	21.3
7-8 PM	621	0.0	317	0.0	1500	621	0	317	0.48	0	65.2	53.5	43.0	22.4	22.4
8-9 PM	500	0.0	255	0.0	1500	500	0	255	0.47	0	65.5	53.9	43.5	23.8	23.8
9-10 PM	411	0.0	210	0.0	1500	411	0	210	0.46	0	65.6	54.2	43.8	24.9	24.9
10-11 PM	288	0.0	147	0.0	1500	288	0	147	0.45	0	65.8	54.6	44.3	26.4	26.4
11PM-MID	175	0.0	90	0.0	1500	175	0	90	0.44	0	66.1	55.0	44.8	27.7	27.7

----- 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	0.0052
MAIN ROUTE WITH WORKS	0.0043
DIVERSION	0.0401

PIA: Personal Injury Accidents

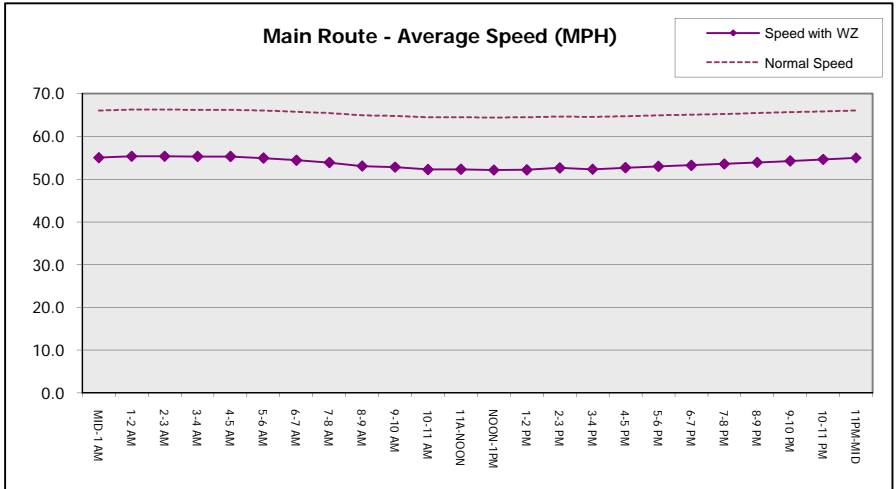
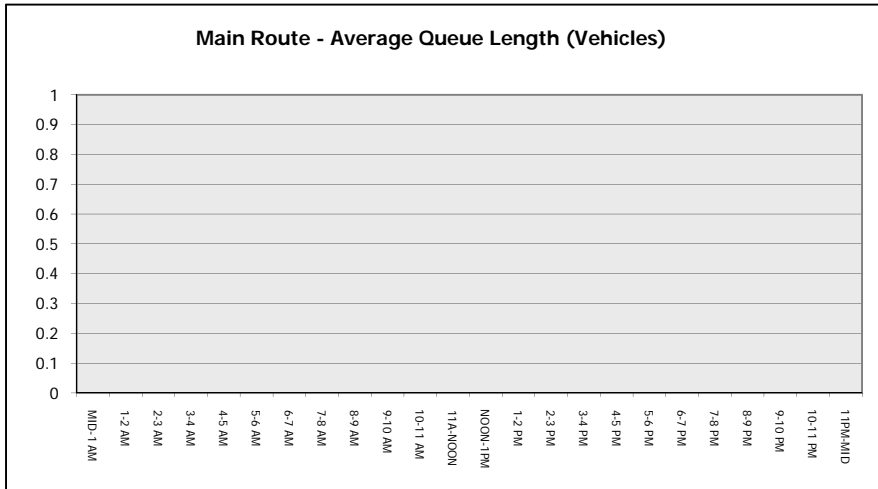
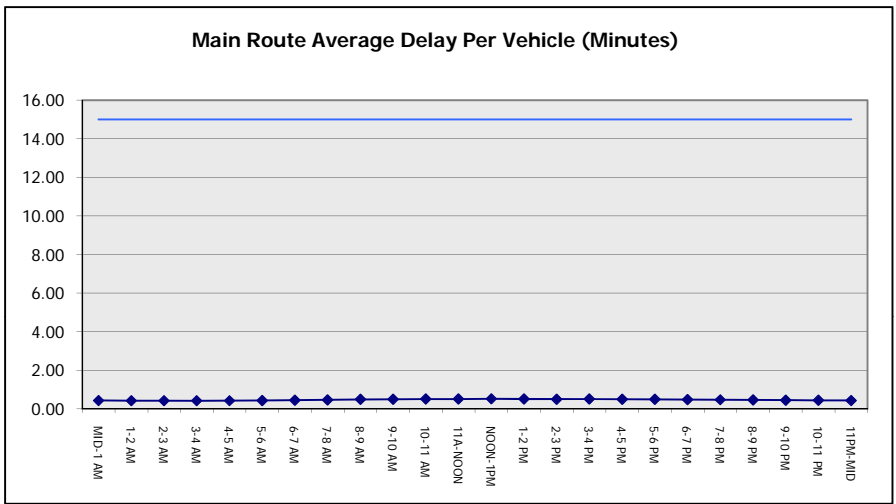
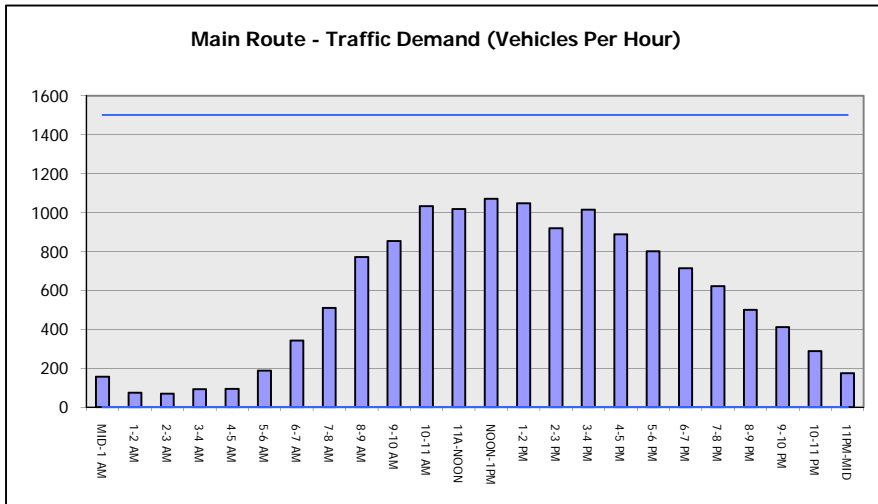
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,735
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY 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

SATURDAY 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	277	0.0	141	0.0	1500	277	0	141	0.45	0	65.9	54.6	44.4	26.5	26.5
1-2 AM	149	0.0	76	0.0	1500	149	0	76	0.44	0	66.1	55.0	44.9	28.0	28.0
2-3 AM	121	0.0	62	0.0	1500	121	0	62	0.43	0	66.1	55.1	45.0	28.4	28.4
3-4 AM	108	0.0	56	0.0	1500	108	0	56	0.43	0	66.2	55.2	45.1	28.5	28.5
4-5 AM	97	0.0	49	0.0	1500	97	0	49	0.43	0	66.2	55.2	45.1	28.6	28.6
5-6 AM	203	0.0	103	0.0	1500	203	0	103	0.44	0	66.0	54.9	44.6	27.4	27.4
6-7 AM	374	0.0	190	0.0	1500	374	0	190	0.46	0	65.7	54.3	44.0	25.3	25.3
7-8 AM	621	0.0	317	0.0	1500	621	0	317	0.48	0	65.2	53.5	43.0	22.4	22.4
8-9 AM	871	0.0	445	0.0	1500	871	0	445	0.51	0	64.8	52.7	42.2	19.5	19.5
9-10 AM	1118	0.0	570	0.0	1500	1118	0	570	0.53	0	64.3	52.0	41.3	17.2	17.2
10-11 AM	1296	0.0	661	0.0	1500	1296	0	661	0.76	0	64.0	47.8	35.6	15.6	15.6
11A-NOON	1265	0.0	645	0.0	1500	1265	0	645	0.72	0	64.0	48.5	36.5	15.8	15.8
NOON-1PM	1179	0.0	602	0.0	1500	1179	0	602	0.61	0	64.2	50.4	39.1	16.6	16.6
1-2 PM	1095	0.0	559	0.0	1500	1095	0	559	0.53	0	64.3	52.0	41.4	17.5	17.5
2-3 PM	1057	0.0	539	0.0	1500	1057	0	539	0.52	0	64.4	52.2	41.5	17.8	17.8
3-4 PM	1052	0.0	536	0.0	1500	1052	0	536	0.52	0	64.4	52.2	41.5	17.8	17.8
4-5 PM	946	0.0	483	0.0	1500	946	0	483	0.51	0	64.6	52.5	41.9	18.8	18.8
5-6 PM	855	0.0	436	0.0	1500	855	0	436	0.51	0	64.8	52.8	42.2	19.7	19.7
6-7 PM	767	0.0	391	0.0	1500	767	0	391	0.50	0	65.0	53.0	42.5	20.7	20.7
7-8 PM	623	0.0	318	0.0	1500	623	0	318	0.48	0	65.2	53.5	43.0	22.4	22.4
8-9 PM	507	0.0	259	0.0	1500	507	0	259	0.47	0	65.5	53.9	43.5	23.7	23.7
9-10 PM	469	0.0	240	0.0	1500	469	0	240	0.47	0	65.5	54.0	43.6	24.2	24.2
10-11 PM	330	0.0	169	0.0	1500	330	0	169	0.45	0	65.8	54.5	44.2	25.8	25.8
11PM-MID	256	0.0	131	0.0	1500	256	0	131	0.45	0	65.9	54.7	44.5	26.8	26.8

----- 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	0.0060
MAIN ROUTE WITH WORKS	0.0049
DIVERSION	0.0460

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$2,174
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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SATURDAY NORTHBOUND DIRECTION

