

<b>IH 39: STH 29E TO STH 34/CTH C (MARATHON COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: BUS 51, STH 29</b>	<b>AUGUST</b>
	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	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	85	0.0	43	0.0	1500	85	0	43	0.43	0	66.2	55.3	45.1	28.8	28.8
2-3 AM	72	0.0	37	0.0	1500	72	0	37	0.43	0	66.3	55.3	45.2	28.9	28.9
3-4 AM	64	0.0	33	0.0	1500	64	0	33	0.43	0	66.3	55.3	45.2	29.1	29.1
4-5 AM	72	0.0	37	0.0	1500	72	0	37	0.43	0	66.3	55.3	45.2	28.9	28.9
5-6 AM	118	0.0	61	0.0	1500	118	0	61	0.43	0	66.1	55.1	45.0	28.4	28.4
6-7 AM	207	0.0	105	0.0	1500	207	0	105	0.44	0	66.0	54.8	44.6	27.3	27.3
7-8 AM	377	0.0	192	0.0	1500	377	0	192	0.46	0	65.7	54.3	44.0	25.3	25.3
8-9 AM	657	0.0	336	0.0	1500	657	0	336	0.49	0	65.1	53.4	42.9	22.0	22.0
9-10 AM	979	0.0	499	0.0	1499	979	0	499	0.52	0	64.6	52.4	41.7	18.5	18.5
10-11 AM	1460	0.0	745	0.0	1499	1460	0	745	1.20	8	63.7	41.6	32.5	14.0	14.1
11A-NOON	1858	0.0	948	0.0	1500	1858	0	948+	7.11	193	62.9	15.8	30.8	11.1	11.4
NOON-1PM	2099	0.0	1072	0.0	1500	1780	319	1391+	23.18	605	62.5	8.1	30.8	10.6	12.4
1-2 PM	2230	0.0	1139	0.0	1500	1504	725	1864+	26.16	680	62.2	7.7	30.8	10.6	12.7
2-3 PM	2217	0.0	1132	0.0	1500	1502	715	1848+	26.16	680	62.2	7.7	30.8	10.6	12.7
3-4 PM	2116	0.0	1081	0.0	1500	1500	616	1697+	26.16	679	62.5	7.7	30.8	10.6	12.7
4-5 PM	1902	0.0	971	0.0	1500	1500	403	1374+	26.14	678	62.8	7.7	30.8	10.9	12.7
5-6 PM	1576	0.0	805	0.0	1499	1409	168	973+	25.18	652	63.5	7.8	30.8	13.1	13.0
6-7 PM	1255	0.0	640	0.0	1499	1197	58	698	17.11	440	64.0	9.3	30.8	16.0	16.3
7-8 PM	949	0.0	485	0.0	1499	949	0	485	2.03	84	64.6	33.8	39.5	18.8	18.8
8-9 PM	658	0.0	336	0.0	1500	658	0	336	0.49	0	65.1	53.4	42.9	22.0	22.0
9-10 PM	464	0.0	237	0.0	1500	464	0	237	0.47	0	65.5	54.0	43.7	24.3	24.3
10-11 PM	292	0.0	149	0.0	1500	292	0	149	0.45	0	65.8	54.6	44.3	26.3	26.3
11PM-MID	152	0.0	78	0.0	1500	152	0	78	0.44	0	66.1	55.0	44.9	28.0	28.0

+ 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	0.0084
MAIN ROUTE WITH WORKS	0.0060
DIVERSION	0.0820

PIA: Personal Injury Accidents

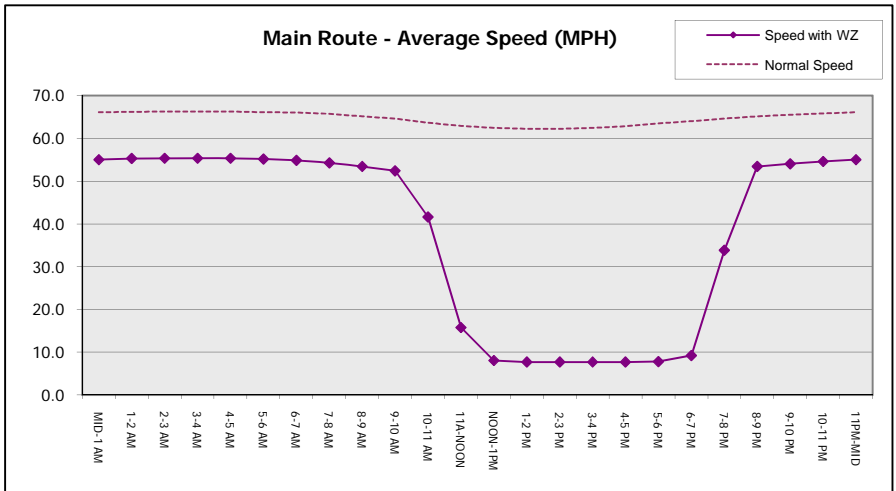
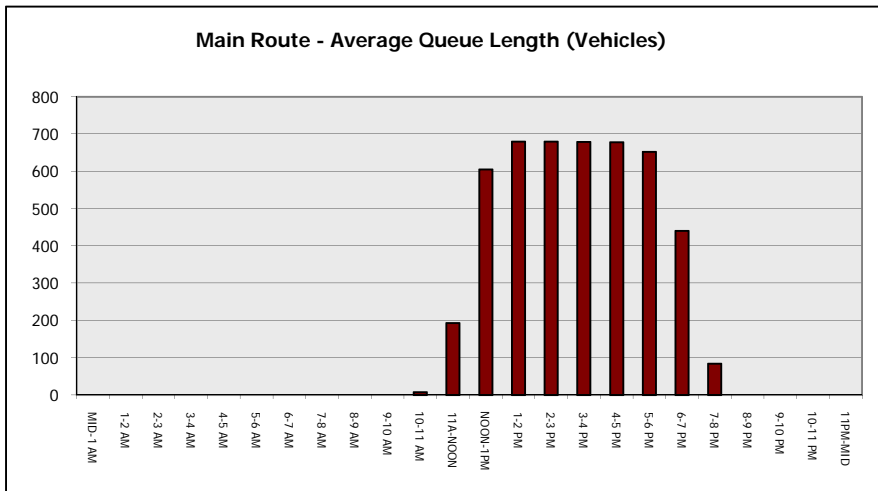
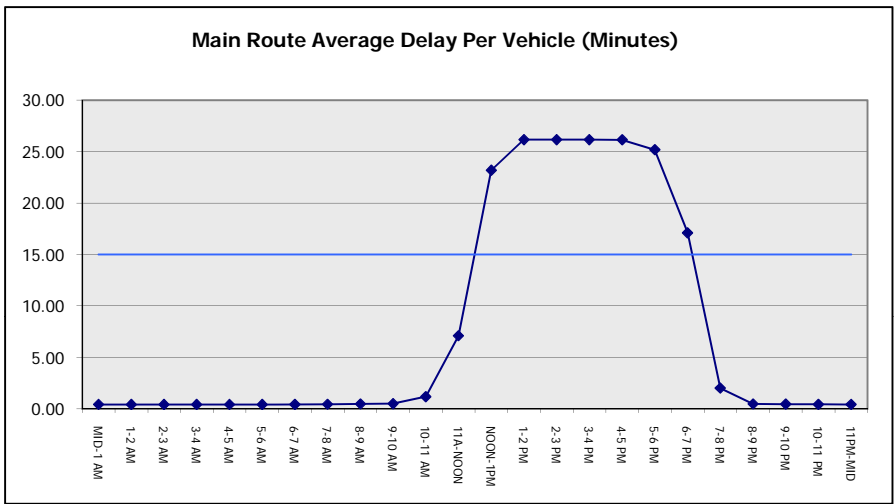
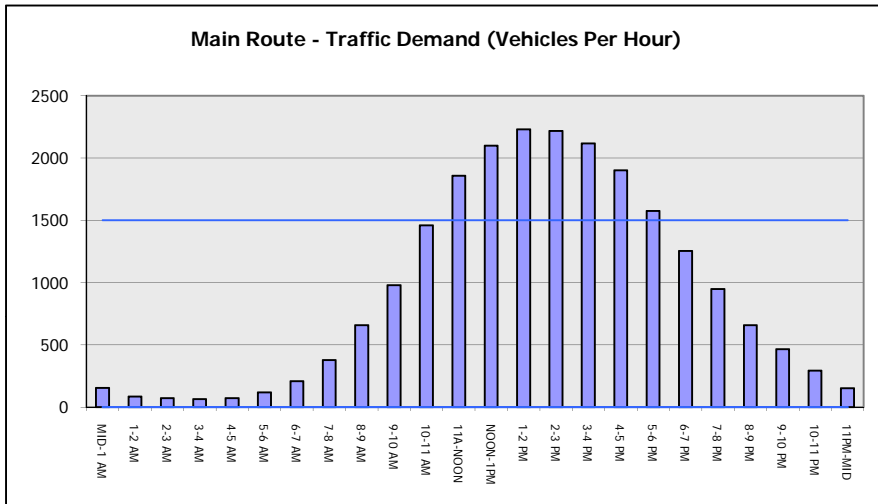
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$102,895
CONGESTED HOURS PER DAY*	7

\*Delays Exceeding 15 Minutes

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

**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY SOUTHBOUND DIRECTION**



<b>IH 39: STH 29E TO STH 34/CTH C (MARATHON COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: BUS 51, STH 29</b>	<b>AUGUST</b>
	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	148	0.0	76	0.0	1500	148	0	76	0.44	0	66.1	55.1	44.9	28.0	28.0
1-2 AM	89	0.0	45	0.0	1500	89	0	45	0.43	0	66.2	55.3	45.1	28.8	28.8
2-3 AM	77	0.0	39	0.0	1500	77	0	39	0.43	0	66.3	55.3	45.2	28.9	28.9
3-4 AM	57	0.0	29	0.0	1500	57	0	29	0.43	0	66.3	55.3	45.3	29.1	29.1
4-5 AM	56	0.0	28	0.0	1500	56	0	28	0.43	0	66.3	55.4	45.3	29.2	29.2
5-6 AM	91	0.0	46	0.0	1500	91	0	46	0.43	0	66.2	55.3	45.1	28.8	28.8
6-7 AM	179	0.0	92	0.0	1500	179	0	92	0.44	0	66.1	55.0	44.8	27.7	27.7
7-8 AM	246	0.0	126	0.0	1500	246	0	126	0.45	0	66.0	54.7	44.5	26.9	26.9
8-9 AM	404	0.0	206	0.0	1500	404	0	206	0.46	0	65.6	54.2	43.9	25.0	25.0
9-10 AM	622	0.0	317	0.0	1500	622	0	317	0.48	0	65.2	53.5	43.0	22.4	22.4
10-11 AM	862	0.0	440	0.0	1500	862	0	440	0.51	0	64.8	52.8	42.2	19.6	19.6
11A-NOON	1108	0.0	565	0.0	1500	1108	0	565	0.53	0	64.3	52.0	41.3	17.3	17.3
NOON-1PM	1252	0.0	638	0.0	1500	1252	0	638	0.70	0	64.0	48.7	36.9	16.0	16.0
1-2 PM	1259	0.0	642	0.0	1500	1259	0	642	0.71	0	64.0	48.6	36.6	15.9	15.9
2-3 PM	1306	0.0	667	0.0	1500	1306	0	667	0.77	0	64.0	47.6	35.3	15.5	15.5
3-4 PM	1244	0.0	635	0.0	1500	1244	0	635	0.69	0	64.1	48.9	37.1	16.0	16.0
4-5 PM	1123	0.0	573	0.0	1500	1123	0	573	0.54	0	64.3	51.9	41.0	17.1	17.1
5-6 PM	1013	0.0	517	0.0	1500	1013	0	517	0.52	0	64.5	52.3	41.6	18.2	18.2
6-7 PM	882	0.0	450	0.0	1500	882	0	450	0.51	0	64.8	52.7	42.1	19.4	19.4
7-8 PM	709	0.0	362	0.0	1500	709	0	362	0.49	0	65.1	53.2	42.7	21.4	21.4
8-9 PM	571	0.0	291	0.0	1500	571	0	291	0.48	0	65.3	53.7	43.2	23.0	23.0
9-10 PM	429	0.0	219	0.0	1500	429	0	219	0.46	0	65.6	54.2	43.8	24.7	24.7
10-11 PM	304	0.0	154	0.0	1500	304	0	154	0.45	0	65.8	54.5	44.3	26.2	26.2
11PM-MID	183	0.0	94	0.0	1500	183	0	94	0.44	0	66.1	55.0	44.8	27.6	27.6

*----- 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	0.0054
MAIN ROUTE WITH WORKS	0.0045
DIVERSION	0.0418

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$2,403
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

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

**AUGUST**  
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 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY NORTHBOUND DIRECTION**

