

IH 39: STH 29E TO STH 34/CTH C (MARATHON COUNTY) OFF-PEAK DAY CLOSURE DIVERSION ROUTE: BUS 51 - STH 29	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	143	0.0	73	0.0	OFF	143	0	73	0.00	0	66.1	66.1	66.1	28.1	28.1
1-2 AM	89	0.0	45	0.0	OFF	89	0	45	0.00	0	66.2	66.2	66.2	28.8	28.8
2-3 AM	76	0.0	39	0.0	OFF	76	0	39	0.00	0	66.3	66.3	66.3	28.9	28.9
3-4 AM	52	0.0	27	0.0	OFF	52	0	27	0.00	0	66.3	66.3	66.3	29.2	29.2
4-5 AM	56	0.0	29	0.0	OFF	56	0	29	0.00	0	66.3	66.3	66.3	29.1	29.1
5-6 AM	131	0.0	67	0.0	OFF	131	0	67	0.00	0	66.1	66.1	66.1	28.3	28.3
6-7 AM	171	0.0	87	0.0	OFF	171	0	87	0.00	0	66.1	66.1	66.1	27.8	27.8
7-8 AM	285	0.0	146	0.0	OFF	285	0	146	0.00	0	65.8	65.8	65.8	26.4	26.4
8-9 AM	496	0.0	253	0.0	OFF	496	0	253	0.00	0	65.5	65.5	65.5	23.9	23.9
9-10 AM	895	0.0	457	0.0	1500	895	0	457	0.51	0	64.7	52.7	42.0	19.3	19.3
10-11 AM	1312	0.0	670	0.0	1499	1312	0	670	0.78	0	64.0	47.5	35.3	15.4	15.4
11A-NOON	1683	0.0	860	0.0	1499	1683	0	860+	3.16	71	63.3	26.5	30.8	12.3	12.3
NOON-1PM	1956	0.0	999	0.0	1500	1956	0	999+	15.06	399	62.7	9.9	30.8	10.7	11.6
1-2 PM	2037	0.0	1040	0.0	1499	1529	508	1548+	26.17	679	62.6	7.7	30.8	10.6	12.7
2-3 PM	2069	0.0	1056	0.0	1500	1506	563	1619+	26.15	679	62.5	7.7	30.8	10.6	12.7
3-4 PM	1960	0.0	1001	0.0	1500	1503	457	1458+	26.15	678	62.7	7.7	30.8	10.7	12.7
4-5 PM	1651	0.0	843	0.0	1500	1452	199	1042+	25.66	665	63.3	7.8	30.8	12.5	12.9
5-6 PM	1330	0.0	679	0.0	1499	1237	93	772+	19.46	501	63.9	8.7	30.8	15.2	15.3
6-7 PM	1052	0.0	537	0.0	1499	1052	0	537	4.30	168	64.4	22.5	36.5	17.8	18.0
7-8 PM	710	0.0	362	0.0	OFF	710	0	362	0.00	0	65.1	65.1	65.1	21.4	21.4
8-9 PM	488	0.0	249	0.0	OFF	488	0	249	0.00	0	65.5	65.5	65.5	24.0	24.0
9-10 PM	305	0.0	155	0.0	OFF	305	0	155	0.00	0	65.8	65.8	65.8	26.1	26.1
10-11 PM	197	0.0	100	0.0	OFF	197	0	100	0.00	0	66.0	66.0	66.0	27.4	27.4
11PM-MID	116	0.0	60	0.0	OFF	116	0	60	0.00	0	66.2	66.2	66.2	28.4	28.4

"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	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	0.0074
MAIN ROUTE WITH WORKS	0.0057
DIVERSION	0.0671

PIA: Personal Injury Accidents

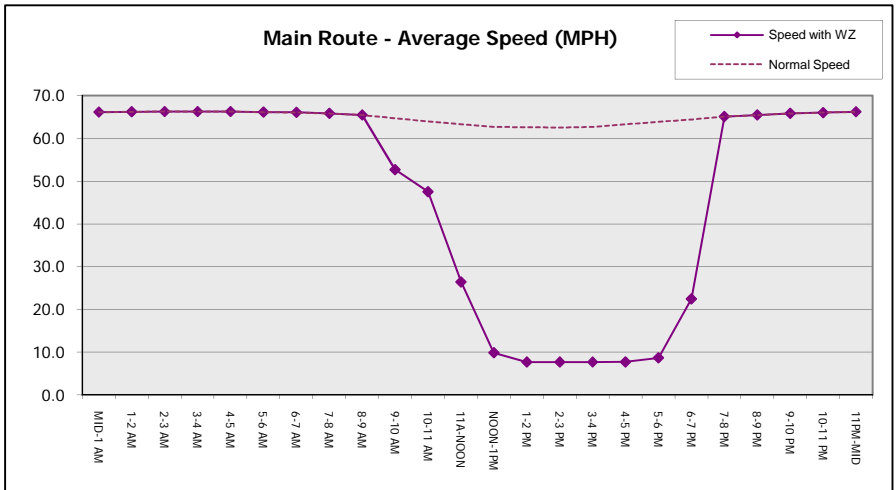
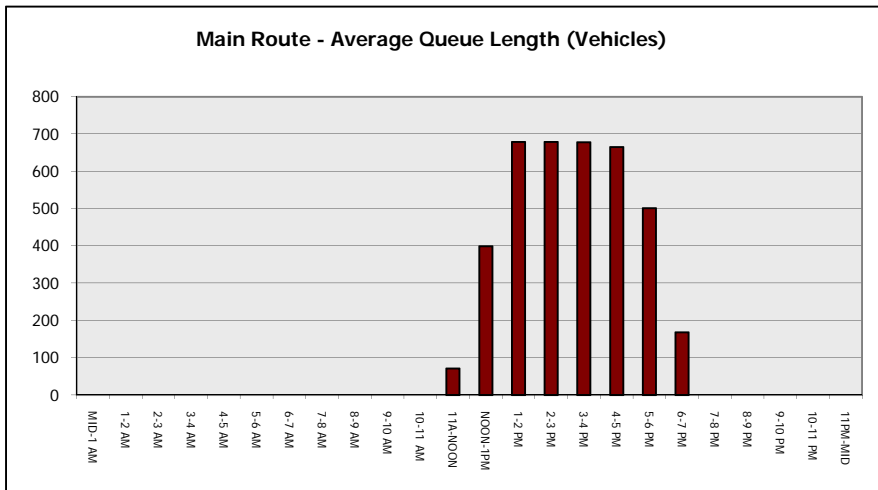
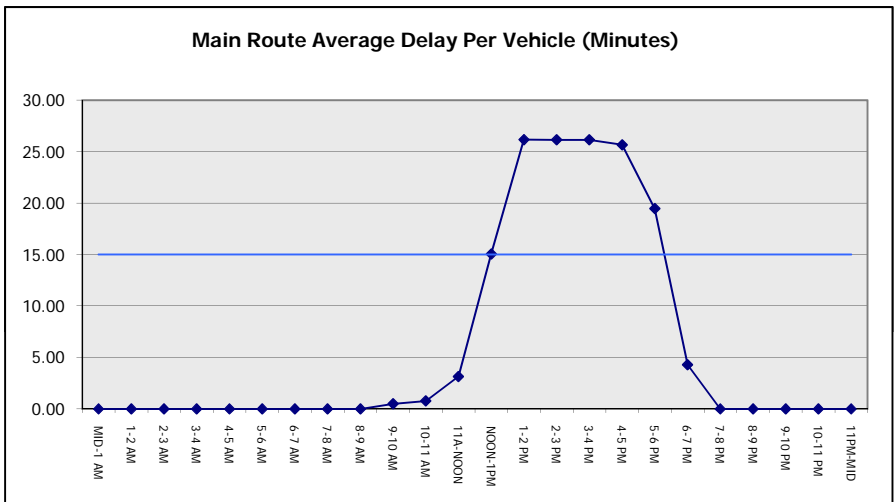
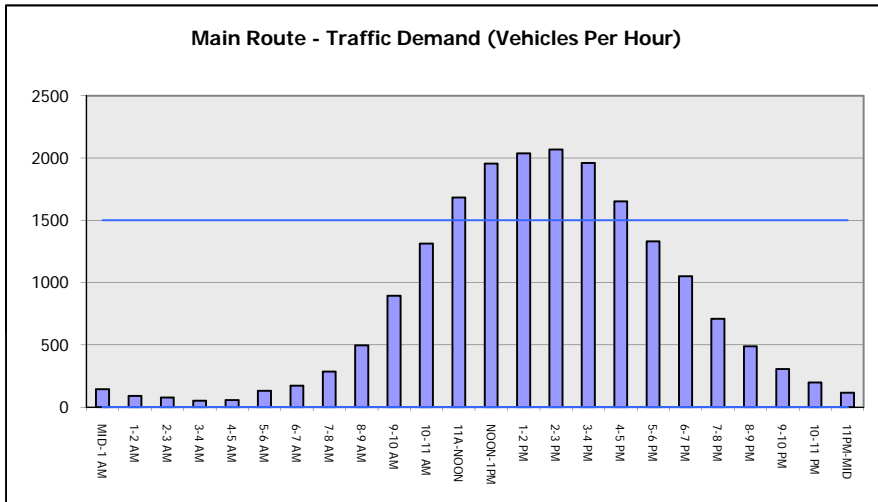
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$79,348
CONGESTED HOURS PER DAY*	6

*Delays Exceeding 15 Minutes

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OFF-PEAK DAY CLOSURE
DIVERSION ROUTE: BUS 51 - STH 29

OCTOBER
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



IH 39: STH 29E TO STH 34/CTH C (MARATHON COUNTY) OFF-PEAK DAY CLOSURE DIVERSION ROUTE: BUS 51 - STH 29	OCTOBER
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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		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	151	0.0	77	0.0	OFF	151	0	77	0.00	0	66.1	66.1	66.1	28.0	28.0
1-2 AM	107	0.0	55	0.0	OFF	107	0	55	0.00	0	66.2	66.2	66.2	28.5	28.5
2-3 AM	82	0.0	42	0.0	OFF	82	0	42	0.00	0	66.3	66.3	66.3	28.8	28.8
3-4 AM	60	0.0	31	0.0	OFF	60	0	31	0.00	0	66.3	66.3	66.3	29.1	29.1
4-5 AM	49	0.0	26	0.0	OFF	49	0	26	0.00	0	66.3	66.3	66.3	29.2	29.2
5-6 AM	103	0.0	52	0.0	OFF	103	0	52	0.00	0	66.2	66.2	66.2	28.6	28.6
6-7 AM	176	0.0	90	0.0	OFF	176	0	90	0.00	0	66.1	66.1	66.1	27.7	27.7
7-8 AM	249	0.0	128	0.0	OFF	249	0	128	0.00	0	66.0	66.0	66.0	26.8	26.8
8-9 AM	399	0.0	204	0.0	OFF	399	0	204	0.00	0	65.6	65.6	65.6	25.0	25.0
9-10 AM	595	0.0	304	0.0	1500	595	0	304	0.48	0	65.3	53.6	43.2	22.7	22.7
10-11 AM	784	0.0	400	0.0	1500	784	0	400	0.50	0	64.9	53.0	42.5	20.4	20.4
11A-NOON	944	0.0	482	0.0	1500	944	0	482	0.51	0	64.6	52.5	41.9	18.8	18.8
NOON-1PM	1073	0.0	548	0.0	1500	1073	0	548	0.53	0	64.4	52.1	41.4	17.6	17.6
1-2 PM	1098	0.0	561	0.0	1500	1098	0	561	0.53	0	64.3	52.0	41.4	17.4	17.4
2-3 PM	1081	0.0	552	0.0	1500	1081	0	552	0.53	0	64.4	52.1	41.4	17.6	17.6
3-4 PM	1076	0.0	549	0.0	1500	1076	0	549	0.53	0	64.4	52.1	41.4	17.6	17.6
4-5 PM	974	0.0	497	0.0	1500	974	0	497	0.52	0	64.6	52.4	41.8	18.6	18.6
5-6 PM	933	0.0	477	0.0	1500	933	0	477	0.51	0	64.6	52.5	41.9	18.9	18.9
6-7 PM	761	0.0	388	0.0	1500	761	0	388	0.50	0	65.0	53.1	42.5	20.7	20.7
7-8 PM	563	0.0	287	0.0	OFF	563	0	287	0.00	0	65.3	65.3	65.3	23.1	23.1
8-9 PM	409	0.0	209	0.0	OFF	409	0	209	0.00	0	65.6	65.6	65.6	24.9	24.9
9-10 PM	310	0.0	159	0.0	OFF	310	0	159	0.00	0	65.8	65.8	65.8	26.1	26.1
10-11 PM	216	0.0	110	0.0	OFF	216	0	110	0.00	0	66.0	66.0	66.0	27.3	27.3
11PM-MID	125	0.0	64	0.0	OFF	125	0	64	0.00	0	66.1	66.1	66.1	28.3	28.3

"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	0.0047
MAIN ROUTE WITH WORKS	0.0041
DIVERSION	0.0362

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,427
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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OFF-PEAK DAY CLOSURE
DIVERSION ROUTE: BUS 51 - STH 29

OCTOBER
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY NORTHBOUND DIRECTION

