

IH 39: STH 29E TO STH 34/CTH C (MARATHON COUNTY) CONTINUOUS (24 HOUR) 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	1500	143	0	73	0.44	0	66.1	55.1	44.9	28.1	28.1
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	76	0.0	39	0.0	1500	76	0	39	0.43	0	66.3	55.3	45.2	28.9	28.9
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	56	0.0	29	0.0	1500	56	0	29	0.43	0	66.3	55.4	45.3	29.1	29.1
5-6 AM	131	0.0	67	0.0	1500	131	0	67	0.44	0	66.1	55.1	45.0	28.3	28.3
6-7 AM	171	0.0	87	0.0	1500	171	0	87	0.44	0	66.1	55.0	44.8	27.8	27.8
7-8 AM	285	0.0	146	0.0	1500	285	0	146	0.45	0	65.8	54.6	44.3	26.4	26.4
8-9 AM	496	0.0	253	0.0	1500	496	0	253	0.47	0	65.5	53.9	43.5	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	1500	710	0	362	0.49	0	65.1	53.2	42.7	21.4	21.4
8-9 PM	488	0.0	249	0.0	1500	488	0	249	0.47	0	65.5	54.0	43.5	24.0	24.0
9-10 PM	305	0.0	155	0.0	1500	305	0	155	0.45	0	65.8	54.5	44.3	26.1	26.1
10-11 PM	197	0.0	100	0.0	1500	197	0	100	0.44	0	66.0	54.9	44.7	27.4	27.4
11PM-MID	116	0.0	60	0.0	1500	116	0	60	0.43	0	66.2	55.1	45.0	28.4	28.4

+ 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	0.0074
MAIN ROUTE WITH WORKS	0.0055
DIVERSION	0.0671

PIA: Personal Injury Accidents

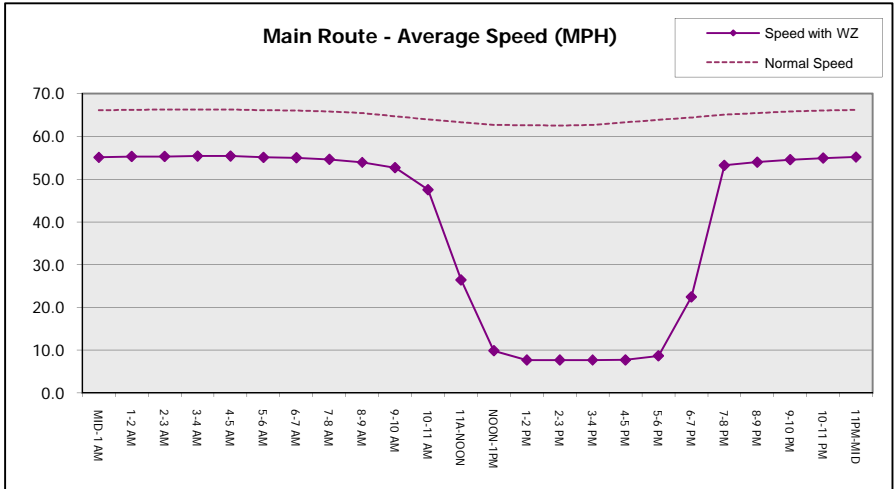
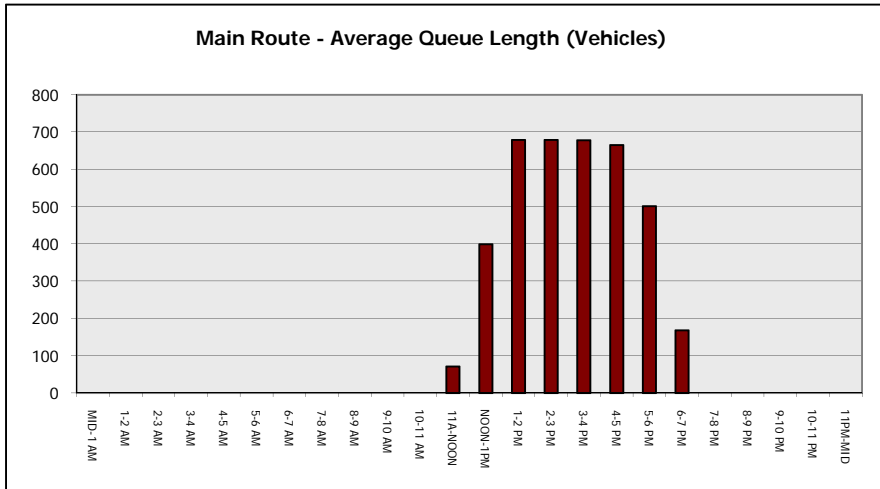
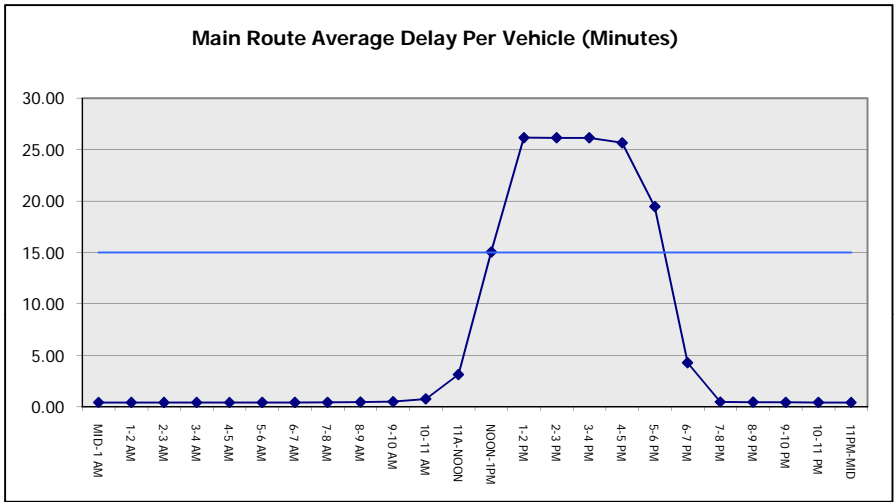
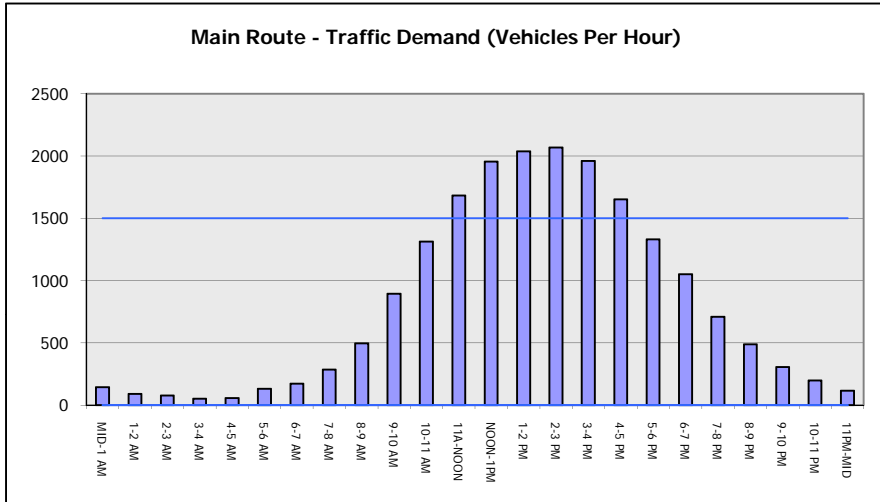
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$79,626
CONGESTED HOURS PER DAY*	6

*Delays Exceeding 15 Minutes

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

OCTOBER
 Analyzed for 2009
 Construction Season

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	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		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	151	0.0	77	0.0	1500	151	0	77	0.44	0	66.1	55.0	44.9	28.0	28.0
1-2 AM	107	0.0	55	0.0	1500	107	0	55	0.43	0	66.2	55.2	45.1	28.5	28.5
2-3 AM	82	0.0	42	0.0	1500	82	0	42	0.43	0	66.3	55.3	45.1	28.8	28.8
3-4 AM	60	0.0	31	0.0	1500	60	0	31	0.43	0	66.3	55.3	45.3	29.1	29.1
4-5 AM	49	0.0	26	0.0	1500	49	0	26	0.43	0	66.3	55.4	45.3	29.2	29.2
5-6 AM	103	0.0	52	0.0	1500	103	0	52	0.43	0	66.2	55.2	45.1	28.6	28.6
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	249	0.0	128	0.0	1500	249	0	128	0.45	0	66.0	54.7	44.5	26.8	26.8
8-9 AM	399	0.0	204	0.0	1500	399	0	204	0.46	0	65.6	54.2	43.9	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	1500	563	0	287	0.48	0	65.3	53.7	43.3	23.1	23.1
8-9 PM	409	0.0	209	0.0	1500	409	0	209	0.46	0	65.6	54.2	43.8	24.9	24.9
9-10 PM	310	0.0	159	0.0	1500	310	0	159	0.45	0	65.8	54.5	44.2	26.1	26.1
10-11 PM	216	0.0	110	0.0	1500	216	0	110	0.44	0	66.0	54.8	44.6	27.3	27.3
11PM-MID	125	0.0	64	0.0	1500	125	0	64	0.43	0	66.1	55.1	45.0	28.3	28.3

----- 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	0.0039
DIVERSION	0.0362

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,826
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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SUNDAY NORTHBOUND DIRECTION

