

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

MON-THUR 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	87	0.0	44	0.0	1500	87	0	44	0.43	0	66.2	55.3	45.1	28.8	28.8
1-2 AM	59	0.0	30	0.0	1500	59	0	30	0.43	0	66.3	55.3	45.3	29.1	29.1
2-3 AM	61	0.0	31	0.0	1500	61	0	31	0.43	0	66.3	55.3	45.3	29.1	29.1
3-4 AM	111	0.0	57	0.0	1500	111	0	57	0.43	0	66.2	55.2	45.0	28.5	28.5
4-5 AM	217	0.0	111	0.0	1500	217	0	111	0.44	0	66.0	54.8	44.6	27.2	27.2
5-6 AM	591	0.0	301	0.0	1500	591	0	301	0.48	0	65.3	53.6	43.2	22.8	22.8
6-7 AM	1110	0.0	567	0.0	1500	1110	0	567	0.53	0	64.3	52.0	41.3	17.3	17.3
7-8 AM	1071	0.0	547	0.0	1500	1071	0	547	0.53	0	64.4	52.1	41.4	17.6	17.6
8-9 AM	900	0.0	459	0.0	1500	900	0	459	0.51	0	64.7	52.7	42.0	19.3	19.3
9-10 AM	882	0.0	451	0.0	1500	882	0	451	0.51	0	64.8	52.7	42.1	19.4	19.4
10-11 AM	955	0.0	489	0.0	1500	955	0	489	0.51	0	64.6	52.5	41.9	18.7	18.7
11A-NOON	1017	0.0	520	0.0	1500	1017	0	520	0.52	0	64.5	52.3	41.6	18.1	18.1
NOON-1PM	1056	0.0	540	0.0	1500	1056	0	540	0.52	0	64.4	52.2	41.5	17.8	17.8
1-2 PM	1092	0.0	559	0.0	1500	1092	0	559	0.53	0	64.3	52.0	41.4	17.5	17.5
2-3 PM	1242	0.0	634	0.0	1499	1242	0	634	0.69	0	64.1	49.0	37.2	16.0	16.0
3-4 PM	1503	0.0	768	0.0	1499	1503	0	768+	1.20	5	63.6	41.5	31.2	13.6	13.7
4-5 PM	1600	0.0	817	0.0	1500	1600	0	817+	3.88	81	63.4	23.4	30.8	12.9	12.9
5-6 PM	1263	0.0	645	0.0	1499	1263	0	645	1.95	48	64.0	34.3	35.2	15.8	15.8
6-7 PM	814	0.0	416	0.0	1500	814	0	416	0.50	0	64.9	52.9	42.4	20.1	20.1
7-8 PM	615	0.0	314	0.0	1500	615	0	314	0.48	0	65.3	53.5	43.1	22.5	22.5
8-9 PM	501	0.0	255	0.0	1500	501	0	255	0.47	0	65.5	53.9	43.5	23.8	23.8
9-10 PM	366	0.0	186	0.0	1500	366	0	186	0.46	0	65.7	54.3	44.0	25.5	25.5
10-11 PM	279	0.0	142	0.0	1500	279	0	142	0.45	0	65.9	54.6	44.3	26.5	26.5
11PM-MID	151	0.0	76	0.0	1500	151	0	76	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	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	0.0067
MAIN ROUTE WITH WORKS	0.0055
DIVERSION	0.0516

PIA: Personal Injury Accidents

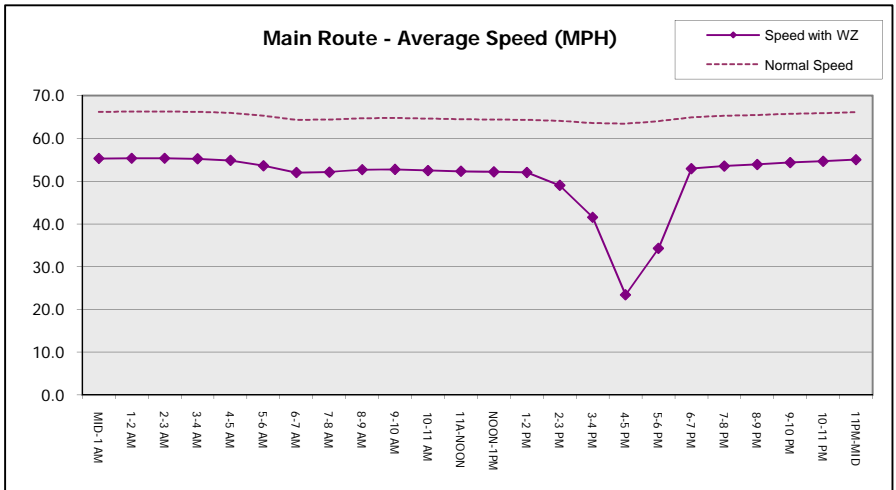
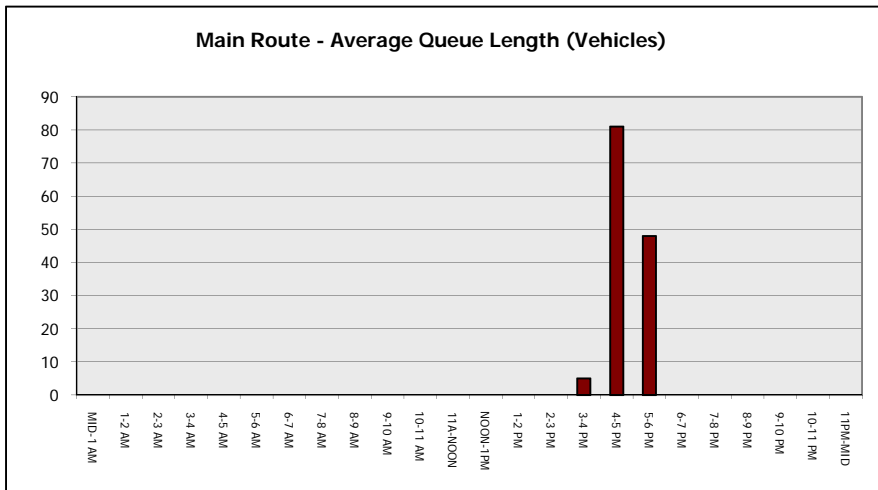
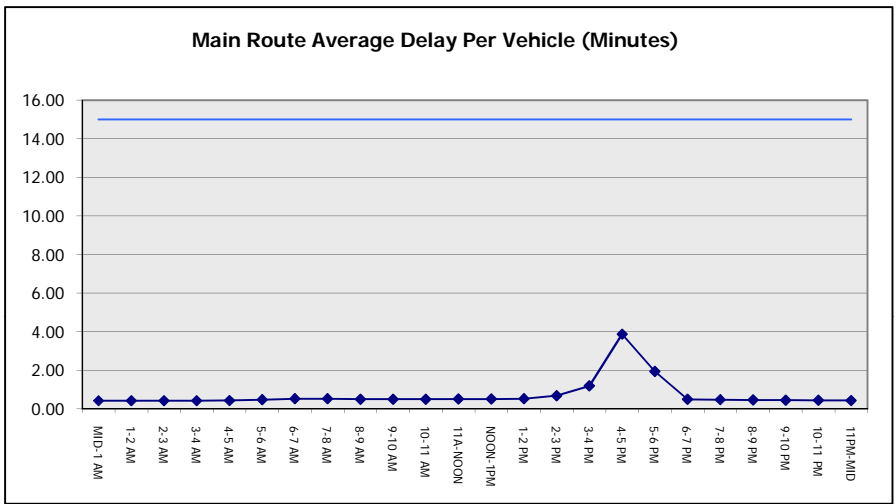
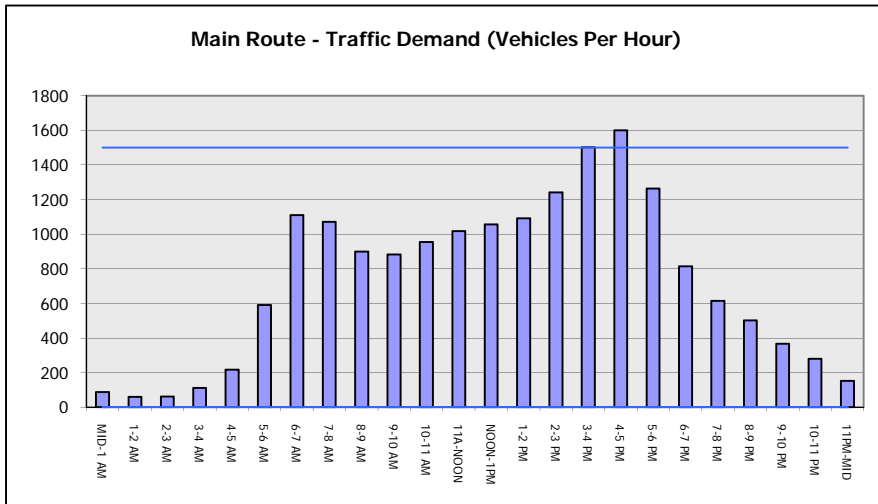
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$3,704
CONGESTED HOURS PER DAY*	0

*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
MON-THUR 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

MON-THUR 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	106	0.0	54	0.0	1500	106	0	54	0.43	0	66.2	55.2	45.1	28.6	28.6
1-2 AM	71	0.0	37	0.0	1500	71	0	37	0.43	0	66.3	55.3	45.2	28.9	28.9
2-3 AM	73	0.0	37	0.0	1500	73	0	37	0.43	0	66.3	55.3	45.2	28.9	28.9
3-4 AM	107	0.0	55	0.0	1500	107	0	55	0.43	0	66.2	55.2	45.1	28.5	28.5
4-5 AM	196	0.0	100	0.0	1500	196	0	100	0.44	0	66.0	54.9	44.7	27.4	27.4
5-6 AM	506	0.0	258	0.0	1500	506	0	258	0.47	0	65.5	53.9	43.5	23.8	23.8
6-7 AM	1131	0.0	579	0.0	1500	1131	0	579	0.55	0	64.3	51.6	40.8	17.1	17.1
7-8 AM	1442	0.0	737	0.0	1500	1442	0	737	0.95	0	63.7	44.8	32.0	14.2	14.2
8-9 AM	967	0.0	493	0.0	1500	967	0	493	0.52	0	64.6	52.4	41.8	18.6	18.6
9-10 AM	905	0.0	462	0.0	1500	905	0	462	0.51	0	64.7	52.6	42.0	19.2	19.2
10-11 AM	912	0.0	465	0.0	1500	912	0	465	0.51	0	64.7	52.6	42.0	19.1	19.1
11A-NOON	957	0.0	488	0.0	1500	957	0	488	0.51	0	64.6	52.5	41.9	18.7	18.7
NOON-1PM	978	0.0	498	0.0	1500	978	0	498	0.52	0	64.6	52.4	41.7	18.5	18.5
1-2 PM	996	0.0	509	0.0	1500	996	0	509	0.52	0	64.5	52.4	41.7	18.3	18.3
2-3 PM	1181	0.0	602	0.0	1500	1181	0	602	0.61	0	64.2	50.4	39.1	16.6	16.6
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	1374	0.0	702	0.0	1500	1374	0	702	0.86	0	63.8	46.1	33.6	14.8	14.8
5-6 PM	1242	0.0	633	0.0	1500	1242	0	633	0.69	0	64.1	49.0	37.1	16.1	16.1
6-7 PM	826	0.0	418	0.0	1500	826	0	418	0.50	0	64.8	52.8	42.3	20.1	20.1
7-8 PM	569	0.0	286	0.0	1500	569	0	286	0.48	0	65.3	53.7	43.2	23.1	23.1
8-9 PM	477	0.0	240	0.0	1500	477	0	240	0.47	0	65.5	54.0	43.6	24.2	24.2
9-10 PM	370	0.0	185	0.0	1500	370	0	185	0.46	0	65.7	54.3	44.0	25.5	25.5
10-11 PM	250	0.0	126	0.0	1500	250	0	126	0.45	0	65.9	54.7	44.5	26.9	26.9
11PM-MID	169	0.0	85	0.0	1500	169	0	85	0.44	0	66.1	55.0	44.8	27.8	27.8

----- 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	0.0066
MAIN ROUTE WITH WORKS	0.0054
DIVERSION	0.0504

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$2,259
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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 DIVERSION ROUTE: BUS 51, STH 29**

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MON-THUR NORTHBOUND DIRECTION

