

IH 39: STH 29E TO STH 34/CTH C (MARATHON COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: BUS 51, STH 29	AUGUST
	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	89	0.0	45	0.0	1500	89	0	45	0.43	0	66.2	55.3	45.1	28.8	28.8
1-2 AM	66	0.0	34	0.0	1500	66	0	34	0.43	0	66.3	55.3	45.2	29.0	29.0
2-3 AM	70	0.0	36	0.0	1500	70	0	36	0.43	0	66.3	55.3	45.2	28.9	28.9
3-4 AM	121	0.0	62	0.0	1500	121	0	62	0.43	0	66.1	55.1	45.0	28.4	28.4
4-5 AM	288	0.0	147	0.0	1500	288	0	147	0.45	0	65.8	54.6	44.3	26.4	26.4
5-6 AM	724	0.0	370	0.0	1500	724	0	370	0.49	0	65.0	53.2	42.7	21.2	21.2
6-7 AM	1011	0.0	517	0.0	1500	1011	0	517	0.52	0	64.5	52.3	41.7	18.2	18.2
7-8 AM	1035	0.0	528	0.0	1500	1035	0	528	0.52	0	64.5	52.2	41.5	18.0	18.0
8-9 AM	930	0.0	476	0.0	1500	930	0	476	0.51	0	64.6	52.5	41.9	18.9	18.9
9-10 AM	980	0.0	501	0.0	1500	980	0	501	0.52	0	64.6	52.4	41.7	18.5	18.5
10-11 AM	1103	0.0	563	0.0	1500	1103	0	563	0.53	0	64.3	52.0	41.3	17.3	17.3
11A-NOON	1174	0.0	600	0.0	1500	1174	0	600	0.60	0	64.2	50.6	39.3	16.6	16.6
NOON-1PM	1218	0.0	624	0.0	1500	1218	0	624	0.66	0	64.1	49.6	37.9	16.3	16.3
1-2 PM	1291	0.0	661	0.0	1500	1291	0	661	0.75	0	64.0	47.9	35.8	15.6	15.6
2-3 PM	1414	0.0	723	0.0	1499	1414	0	723	0.91	0	63.8	45.4	32.7	14.4	14.4
3-4 PM	1552	0.0	794	0.0	1499	1552	0	794+	1.64	18	63.5	36.8	30.8	13.2	13.2
4-5 PM	1670	0.0	852	0.0	1500	1670	0	852+	6.06	144	63.3	17.3	30.8	12.4	12.4
5-6 PM	1314	0.0	671	0.0	1499	1314	0	671	6.15	153	64.0	17.1	32.3	15.4	15.4
6-7 PM	883	0.0	451	0.0	1500	883	0	451	0.54	1	64.8	52.0	42.1	19.4	19.4
7-8 PM	683	0.0	348	0.0	1500	683	0	348	0.49	0	65.1	53.3	42.8	21.7	21.7
8-9 PM	590	0.0	302	0.0	1500	590	0	302	0.48	0	65.3	53.6	43.2	22.7	22.7
9-10 PM	456	0.0	233	0.0	1500	456	0	233	0.47	0	65.5	54.0	43.7	24.3	24.3
10-11 PM	327	0.0	166	0.0	1500	327	0	166	0.45	0	65.8	54.5	44.2	26.0	26.0
11PM-MID	170	0.0	86	0.0	1500	170	0	86	0.44	0	66.1	55.0	44.8	27.8	27.8

+ 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	0.0073
MAIN ROUTE WITH WORKS	0.0060
DIVERSION	0.0564

PIA: Personal Injury Accidents

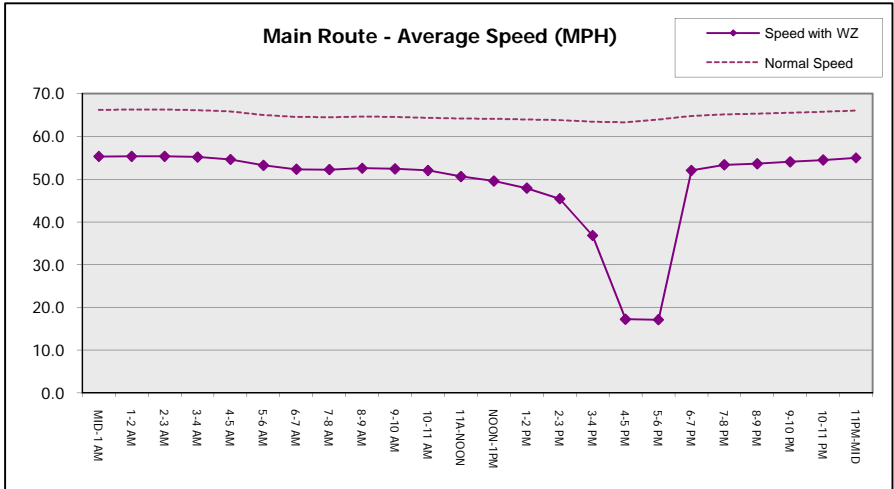
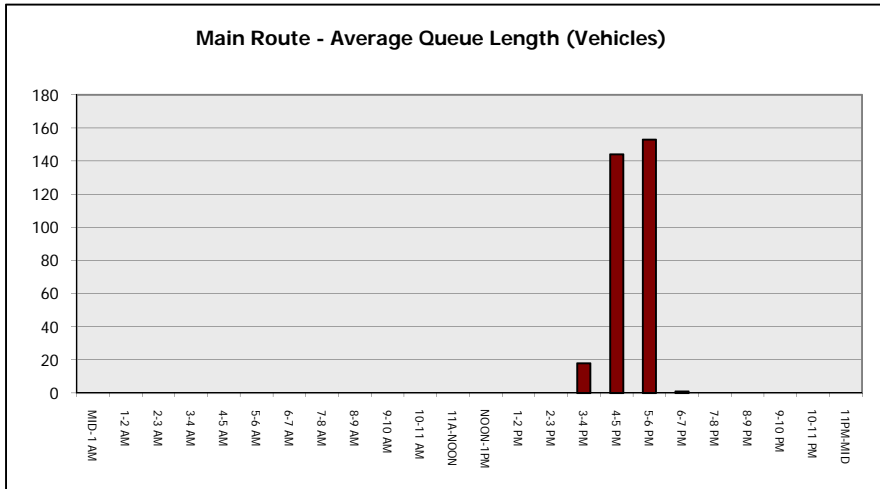
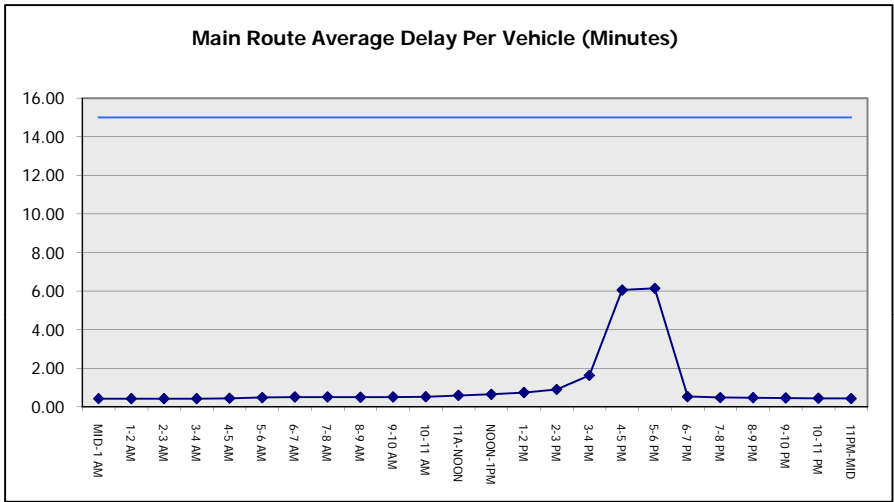
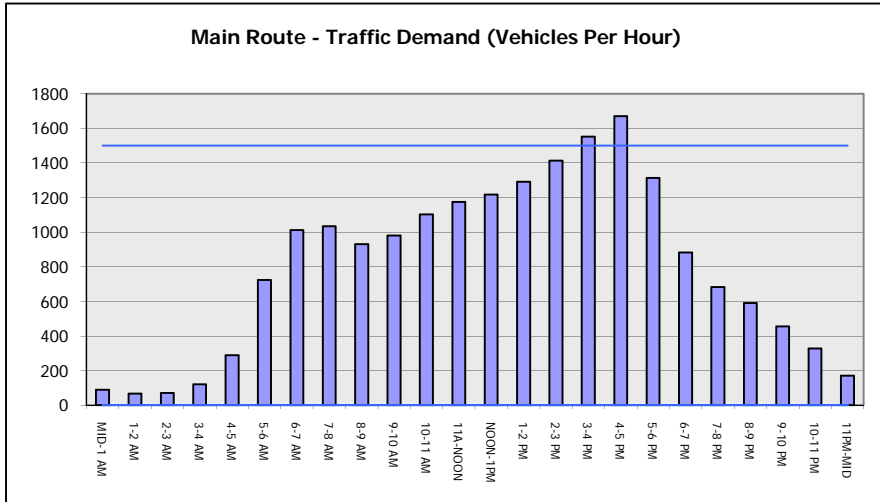
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$6,316
CONGESTED HOURS PER DAY*	0

*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
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	AUGUST
	Analyzed for 2009 Construction Season

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	117	0.0	61	0.0	1500	117	0	61	0.43	0	66.1	55.1	45.0	28.4	28.4
1-2 AM	82	0.0	42	0.0	1500	82	0	42	0.43	0	66.3	55.3	45.1	28.8	28.8
2-3 AM	74	0.0	38	0.0	1500	74	0	38	0.43	0	66.3	55.3	45.2	28.9	28.9
3-4 AM	110	0.0	57	0.0	1500	110	0	57	0.43	0	66.2	55.2	45.0	28.5	28.5
4-5 AM	222	0.0	114	0.0	1500	222	0	114	0.44	0	66.0	54.8	44.6	27.1	27.1
5-6 AM	609	0.0	311	0.0	1500	609	0	311	0.48	0	65.3	53.5	43.1	22.5	22.5
6-7 AM	1138	0.0	582	0.0	1500	1138	0	582	0.56	0	64.3	51.5	40.6	17.0	17.0
7-8 AM	1302	0.0	666	0.0	1500	1302	0	666	0.77	0	64.0	47.7	35.5	15.5	15.5
8-9 AM	965	0.0	494	0.0	1500	965	0	494	0.52	0	64.6	52.4	41.8	18.6	18.6
9-10 AM	984	0.0	502	0.0	1500	984	0	502	0.52	0	64.5	52.4	41.7	18.4	18.4
10-11 AM	1053	0.0	537	0.0	1500	1053	0	537	0.52	0	64.4	52.2	41.5	17.8	17.8
11A-NOON	1084	0.0	554	0.0	1500	1084	0	554	0.53	0	64.3	52.1	41.4	17.5	17.5
NOON-1PM	1113	0.0	569	0.0	1500	1113	0	569	0.53	0	64.3	52.0	41.3	17.3	17.3
1-2 PM	1176	0.0	600	0.0	1500	1176	0	600	0.61	0	64.2	50.5	39.2	16.6	16.6
2-3 PM	1376	0.0	703	0.0	1500	1376	0	703	0.86	0	63.8	46.1	33.5	14.8	14.8
3-4 PM	1405	0.0	717	0.0	1499	1405	0	717	0.90	0	63.8	45.6	32.9	14.5	14.5
4-5 PM	1530	0.0	781	0.0	1499	1530	0	781+	1.65	17	63.5	36.7	30.8	13.4	13.4
5-6 PM	1322	0.0	675	0.0	1500	1322	0	675	0.93	4	63.9	45.2	34.8	15.3	15.3
6-7 PM	915	0.0	466	0.0	1500	915	0	466	0.51	0	64.7	52.6	42.0	19.1	19.1
7-8 PM	697	0.0	353	0.0	1500	697	0	353	0.49	0	65.1	53.3	42.8	21.5	21.5
8-9 PM	579	0.0	291	0.0	1500	579	0	291	0.48	0	65.3	53.7	43.2	23.0	23.0
9-10 PM	458	0.0	232	0.0	1500	458	0	232	0.47	0	65.5	54.0	43.7	24.4	24.4
10-11 PM	343	0.0	175	0.0	1500	343	0	175	0.46	0	65.8	54.4	44.1	25.7	25.7
11PM-MID	213	0.0	109	0.0	1500	213	0	109	0.44	0	66.0	54.8	44.6	27.3	27.3

+ 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	0.0072
MAIN ROUTE WITH WORKS	0.0060
DIVERSION	0.0555

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$2,886
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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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR NORTHBOUND DIRECTION

