

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

FRIDAY 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	137	0.0	70	0.0	1500	137	0	70	0.44	0	66.1	55.1	45.0	28.2	28.2
1-2 AM	76	0.0	39	0.0	1500	76	0	39	0.43	0	66.3	55.3	45.2	28.9	28.9
2-3 AM	68	0.0	35	0.0	1500	68	0	35	0.43	0	66.3	55.3	45.2	29.0	29.0
3-4 AM	101	0.0	51	0.0	1500	101	0	51	0.43	0	66.2	55.2	45.1	28.6	28.6
4-5 AM	208	0.0	106	0.0	1500	208	0	106	0.44	0	66.0	54.8	44.6	27.3	27.3
5-6 AM	539	0.0	275	0.0	1500	539	0	275	0.47	0	65.4	53.8	43.3	23.4	23.4
6-7 AM	809	0.0	413	0.0	1500	809	0	413	0.50	0	64.9	52.9	42.4	20.2	20.2
7-8 AM	981	0.0	500	0.0	1500	981	0	500	0.52	0	64.6	52.4	41.7	18.5	18.5
8-9 AM	914	0.0	467	0.0	1500	914	0	467	0.51	0	64.7	52.6	42.0	19.1	19.1
9-10 AM	1015	0.0	518	0.0	1500	1015	0	518	0.52	0	64.5	52.3	41.6	18.2	18.2
10-11 AM	1183	0.0	603	0.0	1500	1183	0	603	0.61	0	64.2	50.4	39.0	16.6	16.6
11A-NOON	1292	0.0	660	0.0	1500	1292	0	660	0.76	0	64.0	47.9	35.7	15.6	15.6
NOON-1PM	1455	0.0	742	0.0	1500	1455	0	742	0.97	0	63.7	44.6	31.7	14.1	14.1
1-2 PM	1440	0.0	735	0.0	1499	1440	0	735	0.95	0	63.7	44.9	32.0	14.2	14.2
2-3 PM	1561	0.0	797	0.0	1499	1561	0	797+	1.78	22	63.5	35.5	30.8	13.2	13.2
3-4 PM	1686	0.0	861	0.0	1500	1686	0	861+	6.10	147	63.2	17.1	30.8	12.3	12.3
4-5 PM	1757	0.0	897	0.0	1500	1757	0	897+	14.83	379	63.1	9.9	30.8	11.7	12.6
5-6 PM	1548	0.0	791	0.0	1499	1510	38	829+	20.94	537	63.5	8.4	30.8	13.3	14.5
6-7 PM	1103	0.0	563	0.0	1499	1074	28	591	11.39	314	64.3	11.8	33.4	17.3	17.6
7-8 PM	830	0.0	424	0.0	1500	830	0	424	0.65	6	64.8	50.2	42.2	19.9	19.9
8-9 PM	709	0.0	362	0.0	1500	709	0	362	0.49	0	65.1	53.2	42.7	21.4	21.4
9-10 PM	613	0.0	313	0.0	1500	613	0	313	0.48	0	65.3	53.5	43.1	22.5	22.5
10-11 PM	443	0.0	226	0.0	1500	443	0	226	0.47	0	65.6	54.1	43.7	24.5	24.5
11PM-MID	276	0.0	141	0.0	1500	276	0	141	0.45	0	65.9	54.6	44.4	26.5	26.5

+ 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	0.0079
MAIN ROUTE WITH WORKS	0.0065
DIVERSION	0.0614

PIA: Personal Injury Accidents

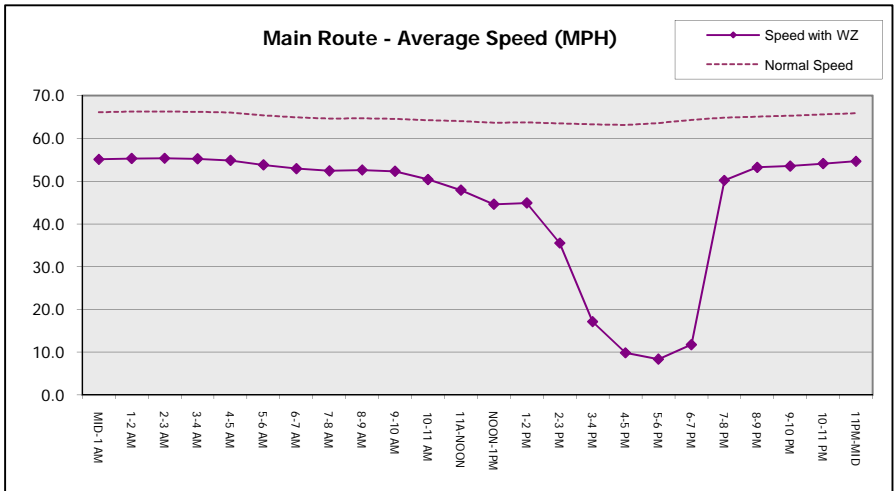
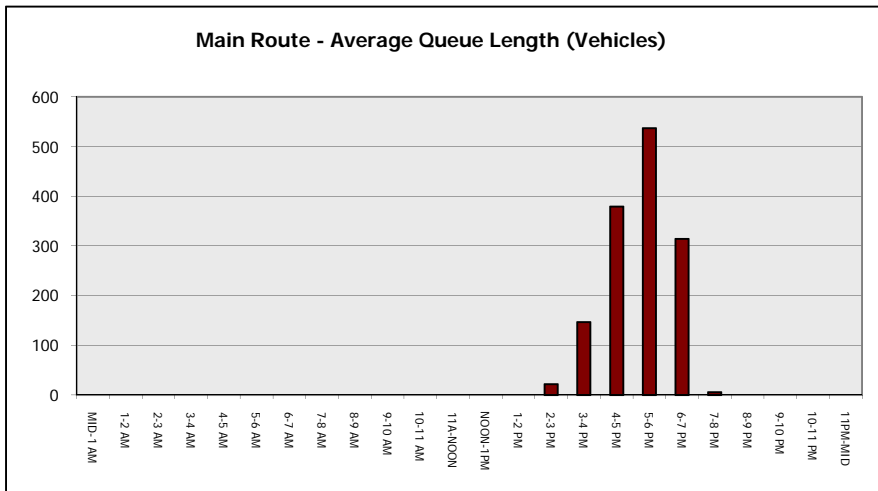
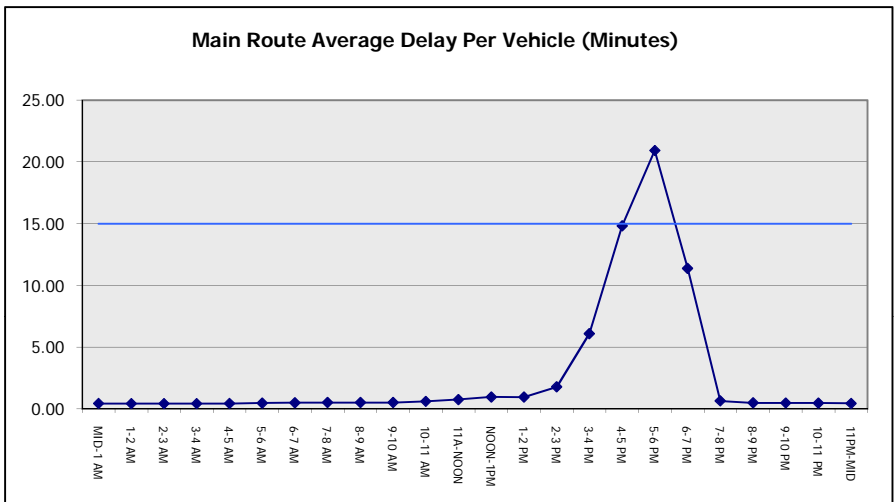
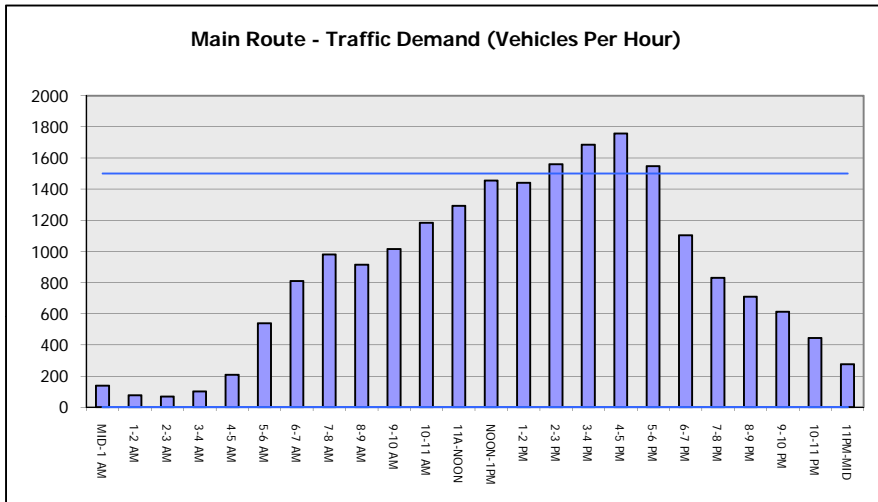
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$22,016
CONGESTED HOURS PER DAY*	1

*Delays Exceeding 15 Minutes

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

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY 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

FRIDAY 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	194	0.0	99	0.0	1500	194	0	99	0.44	0	66.0	54.9	44.7	27.5	27.5
1-2 AM	119	0.0	61	0.0	1500	119	0	61	0.43	0	66.1	55.1	45.0	28.4	28.4
2-3 AM	99	0.0	50	0.0	1500	99	0	50	0.43	0	66.2	55.2	45.1	28.6	28.6
3-4 AM	114	0.0	59	0.0	1500	114	0	59	0.43	0	66.2	55.1	45.0	28.4	28.4
4-5 AM	165	0.0	84	0.0	1500	165	0	84	0.44	0	66.1	55.0	44.8	27.8	27.8
5-6 AM	444	0.0	226	0.0	1500	444	0	226	0.47	0	65.6	54.1	43.7	24.5	24.5
6-7 AM	969	0.0	494	0.0	1500	969	0	494	0.52	0	64.6	52.4	41.8	18.6	18.6
7-8 AM	1315	0.0	671	0.0	1500	1315	0	671	0.78	0	64.0	47.4	35.1	15.4	15.4
8-9 AM	1049	0.0	535	0.0	1500	1049	0	535	0.52	0	64.5	52.2	41.5	17.9	17.9
9-10 AM	1194	0.0	609	0.0	1500	1194	0	609	0.63	0	64.1	50.1	38.6	16.5	16.5
10-11 AM	1443	0.0	737	0.0	1499	1443	0	737	0.95	0	63.7	44.8	32.0	14.2	14.2
11A-NOON	1578	0.0	805	0.0	1499	1578	0	805+	2.17	34	63.5	32.4	30.8	13.1	13.1
NOON-1PM	1601	0.0	817	0.0	1499	1601	0	817+	5.49	123	63.4	18.6	30.8	12.9	12.9
1-2 PM	1727	0.0	882	0.0	1500	1727	0	882+	11.14	280	63.2	11.4	30.8	11.9	12.3
2-3 PM	1973	0.0	1008	0.0	1500	1756	217	1225+	22.91	598	62.7	8.1	30.9	10.6	12.5
3-4 PM	2037	0.0	1040	0.0	1500	1509	528	1568+	26.15	679	62.6	7.7	30.8	10.6	12.7
4-5 PM	2088	0.0	1065	0.0	1500	1504	583	1649+	26.15	679	62.5	7.7	30.8	10.6	12.7
5-6 PM	2007	0.0	1024	0.0	1500	1502	506	1530+	26.15	679	62.7	7.7	30.8	10.6	12.7
6-7 PM	1733	0.0	884	0.0	1500	1499	233	1118+	26.13	677	63.2	7.7	30.8	11.9	12.7
7-8 PM	1549	0.0	791	0.0	1499	1394	155	946+	24.48	633	63.5	7.9	30.8	13.3	13.3
8-9 PM	1296	0.0	661	0.0	1499	1248	48	709	17.53	449	64.0	9.1	30.8	15.6	16.1
9-10 PM	1015	0.0	518	0.0	1499	1015	0	518	2.86	120	64.5	28.5	37.8	18.2	18.3
10-11 PM	670	0.0	342	0.0	1500	670	0	342	0.49	0	65.1	53.3	42.8	21.8	21.8
11PM-MID	510	0.0	260	0.0	1500	510	0	260	0.47	0	65.5	53.8	43.5	23.7	23.7

+ 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	0.0103
MAIN ROUTE WITH WORKS	0.0078
DIVERSION	0.0921

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$83,555
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
FRIDAY NORTHBOUND DIRECTION

