

STH 29: IH 93 TO CTH X (MARATHON COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: BUS 51, IH 39	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR WESTBOUND 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	105	0.0	57	0.0	1500	105	0	57	0.43	0	66.2	48.4	45.1	38.4	38.4
1-2 AM	83	0.0	44	0.0	1500	83	0	44	0.43	0	66.2	48.5	45.1	38.4	38.4
2-3 AM	57	0.0	30	0.0	1500	57	0	30	0.43	0	66.3	48.6	45.3	38.4	38.4
3-4 AM	86	0.0	45	0.0	1500	86	0	45	0.43	0	66.2	48.4	45.1	38.4	38.4
4-5 AM	208	0.0	109	0.0	1500	208	0	109	0.44	0	66.0	48.0	44.6	38.3	38.3
5-6 AM	577	0.0	303	0.0	1500	577	0	303	0.48	0	65.3	46.6	43.2	37.9	37.9
6-7 AM	1338	0.0	700	0.0	1499	1338	0	700	0.79	0	63.9	38.7	35.0	37.0	37.0
7-8 AM	1855	0.0	971	0.0	1499	1770	85	1056	6.41	162	62.9	12.5	30.8	36.0	35.6
8-9 AM	1298	0.0	679	0.0	1499	1248	50	729	5.87	149	64.0	13.2	33.0	37.1	37.2
9-10 AM	1033	0.0	540	0.0	1500	1033	0	541	0.53	0	64.5	44.7	41.5	37.4	37.4
10-11 AM	1015	0.0	530	0.0	1500	1015	0	530	0.52	0	64.5	45.1	41.6	37.4	37.4
11A-NOON	1031	0.0	539	0.0	1500	1031	0	539	0.52	0	64.5	45.0	41.5	37.4	37.4
NOON-1PM	1094	0.0	572	0.0	1500	1094	0	572	0.53	0	64.3	44.8	41.4	37.3	37.3
1-2 PM	1103	0.0	576	0.0	1500	1103	0	576	0.53	0	64.3	44.8	41.3	37.3	37.3
2-3 PM	1272	0.0	665	0.0	1499	1272	0	665	0.73	0	64.0	40.1	36.3	37.1	37.1
3-4 PM	1500	0.0	784	0.0	1499	1500	0	784	1.14	4	63.6	32.9	31.1	36.9	36.9
4-5 PM	1535	0.0	803	0.0	1500	1535	0	803	2.31	35	63.5	22.0	30.8	36.8	36.8
5-6 PM	1435	0.0	751	0.0	1499	1435	0	751	2.17	37	63.7	23.1	31.9	36.9	36.9
6-7 PM	942	0.0	493	0.0	1500	942	0	493	0.51	0	64.6	45.3	41.9	37.4	37.4
7-8 PM	621	0.0	325	0.0	1500	621	0	325	0.48	0	65.2	46.5	43.0	37.8	37.8
8-9 PM	444	0.0	232	0.0	1500	444	0	232	0.47	0	65.6	47.1	43.7	38.0	38.0
9-10 PM	342	0.0	178	0.0	1500	342	0	178	0.46	0	65.8	47.5	44.1	38.1	38.1
10-11 PM	321	0.0	168	0.0	1500	321	0	168	0.45	0	65.8	47.6	44.2	38.1	38.1
11PM-MID	192	0.0	101	0.0	1500	192	0	101	0.44	0	66.0	48.1	44.7	38.3	38.3

----- 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	0.0040
MAIN ROUTE WITH WORKS	0.0027
DIVERSION	0.0910

PIA: Personal Injury Accidents

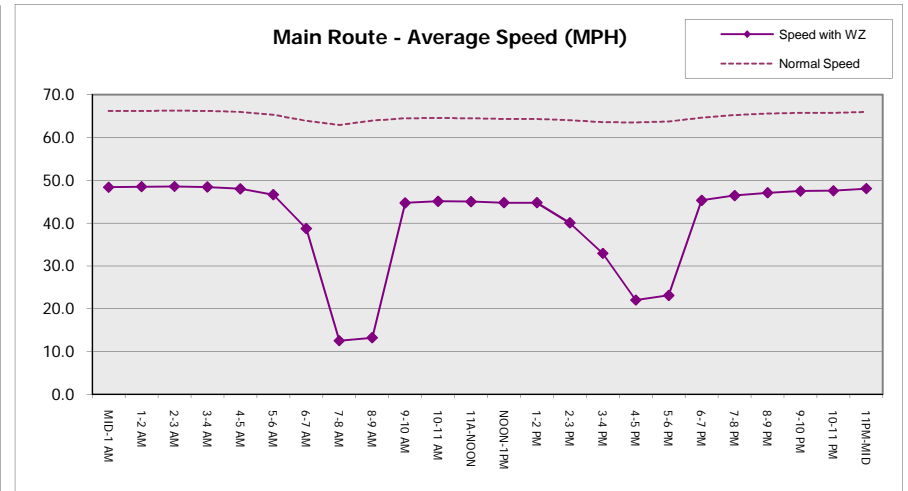
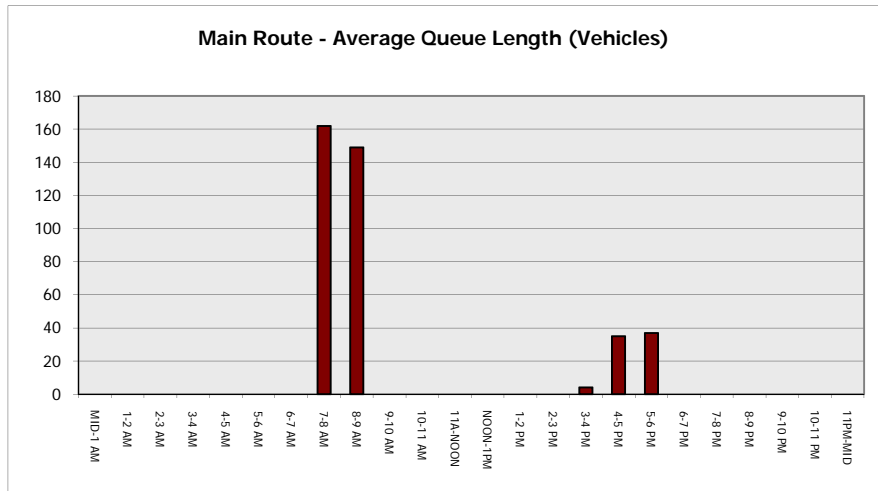
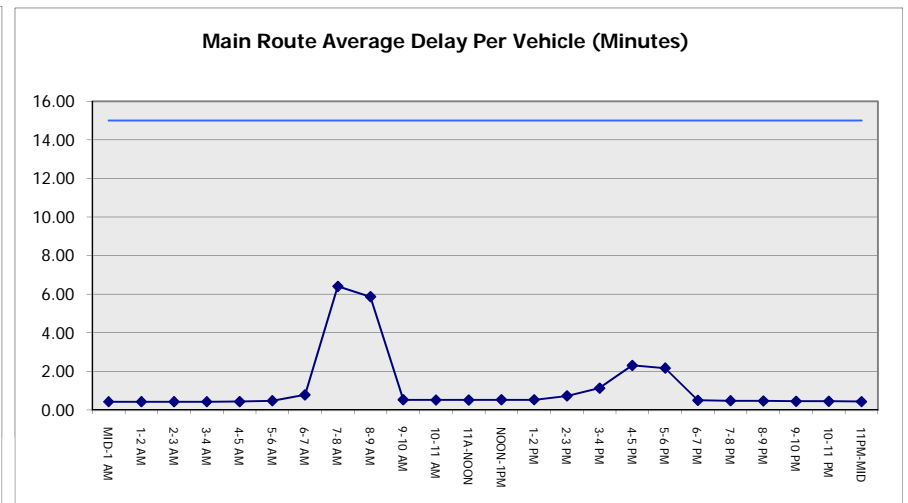
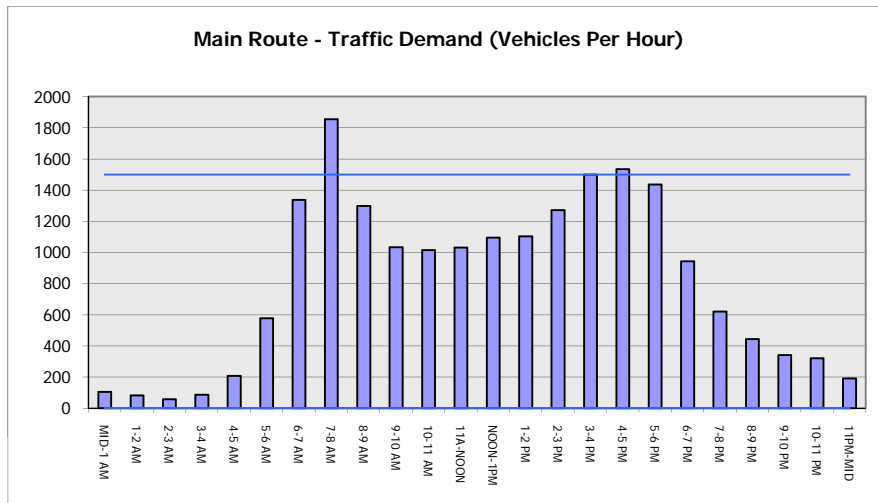
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$8,339
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

**STH 29: IH 93 TO CTH X (MARATHON COUNTY)
 CONTINUOUS (24 HOUR) CLOSURE
 DIVERSION ROUTE: BUS 51, IH 39**

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR WESTBOUND DIRECTION



STH 29: IH 93 TO CTH X (MARATHON COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: BUS 51, IH 39	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR EASTBOUND 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	89	0.0	46	0.0	1500	89	0	46	0.43	0	66.2	48.4	45.1	38.3	38.3
1-2 AM	64	0.0	33	0.0	1500	64	0	33	0.43	0	66.3	48.6	45.2	38.4	38.4
2-3 AM	55	0.0	28	0.0	1500	55	0	28	0.43	0	66.3	48.6	45.3	38.4	38.4
3-4 AM	72	0.0	38	0.0	1500	72	0	38	0.43	0	66.3	48.5	45.2	38.3	38.3
4-5 AM	205	0.0	107	0.0	1500	205	0	107	0.44	0	66.0	48.0	44.6	38.1	38.1
5-6 AM	383	0.0	201	0.0	1500	383	0	201	0.46	0	65.7	47.3	44.0	37.6	37.6
6-7 AM	882	0.0	461	0.0	1500	882	0	461	0.51	0	64.8	45.5	42.1	36.3	36.3
7-8 AM	1125	0.0	589	0.0	1500	1125	0	589	0.54	0	64.3	44.5	41.0	34.2	34.2
8-9 AM	874	0.0	457	0.0	1500	874	0	457	0.51	0	64.8	45.6	42.1	36.5	36.5
9-10 AM	808	0.0	423	0.0	1500	808	0	423	0.50	0	64.9	45.8	42.4	36.7	36.7
10-11 AM	892	0.0	466	0.0	1500	892	0	466	0.51	0	64.7	45.5	42.0	36.3	36.3
11A-NOON	977	0.0	511	0.0	1500	977	0	511	0.52	0	64.6	45.2	41.7	35.5	35.5
NOON-1PM	1090	0.0	570	0.0	1500	1090	0	570	0.53	0	64.3	44.8	41.4	34.5	34.5
1-2 PM	1144	0.0	597	0.0	1500	1144	0	597	0.56	0	64.3	43.8	40.4	34.0	34.0
2-3 PM	1370	0.0	716	0.0	1499	1370	0	716	0.85	0	63.8	37.6	33.8	31.9	31.9
3-4 PM	1704	0.0	890	0.0	1499	1704	0	890+	3.65	86	63.2	17.3	30.8	26.7	27.0
4-5 PM	1867	0.0	977	0.0	1500	1792	75	1052+	14.61	376	62.9	8.3	30.8	23.0	23.3
5-6 PM	1670	0.0	874	0.0	1500	1424	245	1119+	18.39	469	63.3	7.5	30.8	27.4	21.9
6-7 PM	1084	0.0	567	0.0	1499	1009	75	643	4.49	179	64.3	17.0	37.1	34.5	33.2
7-8 PM	787	0.0	412	0.0	1500	787	0	412	0.50	0	64.9	45.8	42.4	36.8	36.8
8-9 PM	625	0.0	326	0.0	1500	625	0	326	0.48	0	65.2	46.5	43.0	37.1	37.1
9-10 PM	431	0.0	225	0.0	1500	431	0	225	0.46	0	65.6	47.1	43.8	37.6	37.6
10-11 PM	340	0.0	177	0.0	1500	340	0	177	0.46	0	65.8	47.5	44.2	37.8	37.8
11PM-MID	232	0.0	121	0.0	1500	232	0	121	0.44	0	66.0	47.9	44.5	38.0	38.0

+ 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	0.0039
MAIN ROUTE WITH WORKS	0.0026
DIVERSION	0.0899

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$18,324
CONGESTED HOURS PER DAY*	1

*Delays Exceeding 15 Minutes

**STH 29: IH 93 TO CTH X (MARATHON COUNTY)
 CONTINUOUS (24 HOUR) CLOSURE
 DIVERSION ROUTE: BUS 51, IH 39**

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR EASTBOUND DIRECTION

