

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

FRIDAY 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	96	0.0	50	0.0	1500	96	0	50	0.43	0	66.2	48.4	45.1	38.4	38.4
1-2 AM	98	0.0	50	0.0	1500	98	0	50	0.43	0	66.2	48.4	45.1	38.4	38.4
2-3 AM	67	0.0	35	0.0	1500	67	0	35	0.43	0	66.3	48.6	45.2	38.4	38.4
3-4 AM	96	0.0	50	0.0	1500	96	0	50	0.43	0	66.2	48.4	45.1	38.4	38.4
4-5 AM	205	0.0	107	0.0	1500	205	0	107	0.44	0	66.0	48.0	44.6	38.3	38.3
5-6 AM	524	0.0	274	0.0	1500	524	0	274	0.47	0	65.4	46.8	43.4	37.9	37.9
6-7 AM	1247	0.0	652	0.0	1499	1247	0	652	0.69	0	64.1	40.9	37.2	37.1	37.1
7-8 AM	1704	0.0	890	0.0	1499	1704	0	890	4.33	102	63.2	15.5	30.8	36.6	36.8
8-9 AM	1228	0.0	642	0.0	1499	1228	0	642	2.82	92	64.1	21.1	34.7	37.1	37.3
9-10 AM	1126	0.0	589	0.0	1500	1126	0	589	0.54	0	64.3	44.5	41.0	37.3	37.3
10-11 AM	1218	0.0	636	0.0	1500	1218	0	636	0.66	0	64.1	41.5	37.9	37.2	37.2
11A-NOON	1256	0.0	657	0.0	1500	1256	0	657	0.71	0	64.0	40.5	36.8	37.1	37.1
NOON-1PM	1347	0.0	704	0.0	1500	1347	0	704	0.83	0	63.9	38.1	34.3	37.0	37.0
1-2 PM	1382	0.0	723	0.0	1499	1382	0	723	0.87	0	63.8	37.2	33.4	37.0	37.0
2-3 PM	1577	0.0	825	0.0	1499	1577	0	825	1.96	29	63.5	24.5	30.8	36.8	36.8
3-4 PM	1670	0.0	873	0.0	1500	1670	0	873	6.51	154	63.3	12.2	30.8	36.7	37.1
4-5 PM	1807	0.0	945	0.0	1499	1505	302	1247	10.29	250	63.0	9.6	30.8	36.1	34.3
5-6 PM	1698	0.0	888	0.0	1500	1479	220	1108	9.89	239	63.2	9.7	30.8	36.6	35.4
6-7 PM	1256	0.0	657	0.0	1499	1256	0	657	4.79	134	64.0	15.2	33.5	37.1	37.4
7-8 PM	855	0.0	447	0.0	1500	855	0	447	0.51	0	64.8	45.6	42.2	37.6	37.6
8-9 PM	606	0.0	317	0.0	1500	606	0	317	0.48	0	65.3	46.5	43.1	37.8	37.8
9-10 PM	440	0.0	230	0.0	1500	440	0	230	0.47	0	65.6	47.1	43.7	38.0	38.0
10-11 PM	380	0.0	199	0.0	1500	380	0	199	0.46	0	65.7	47.3	44.0	38.1	38.1
11PM-MID	280	0.0	146	0.0	1500	280	0	146	0.45	0	65.9	47.7	44.3	38.2	38.2

----- 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	0.0046
MAIN ROUTE WITH WORKS	0.0030
DIVERSION	0.1066

PIA: Personal Injury Accidents

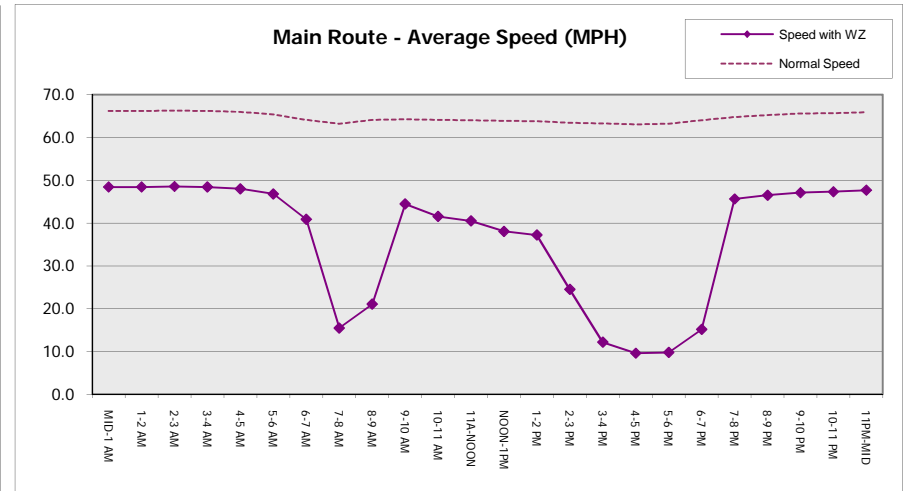
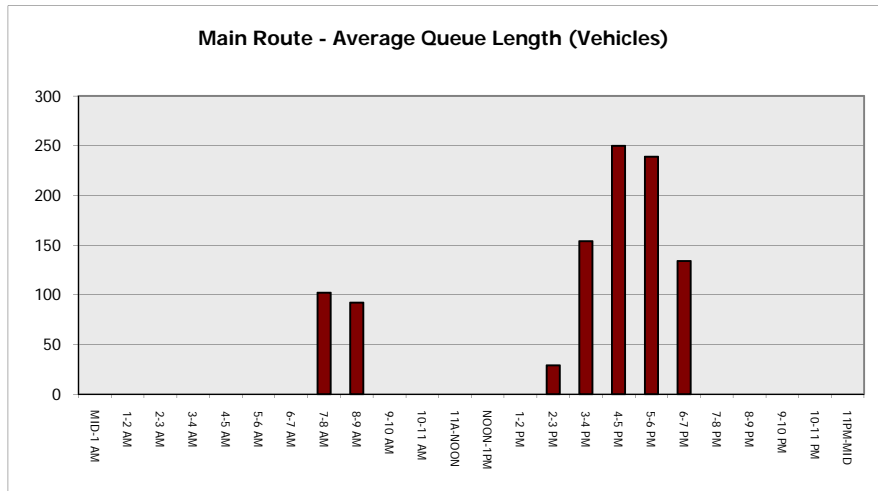
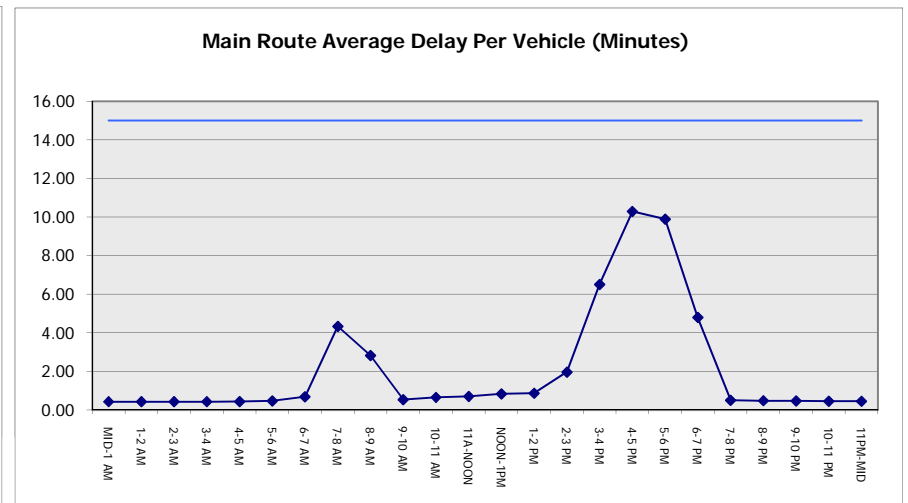
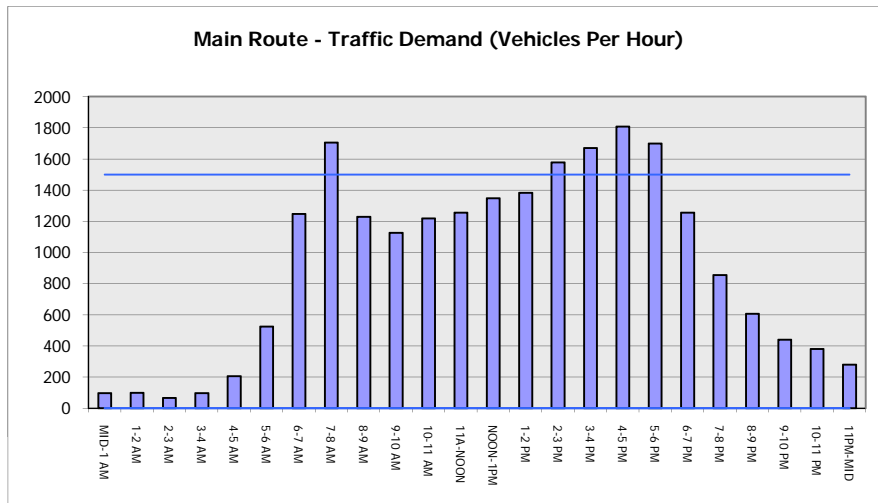
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$18,355
CONGESTED HOURS PER DAY*	0

*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
FRIDAY WESTBOUND DIRECTION



STH 29: IH 93 TO CTH X (MARATHON COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: BUS 51, IH 39	OCTOBER
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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	114	0.0	60	0.0	1500	114	0	60	0.43	0	66.2	48.4	45.0	38.3	38.3
1-2 AM	87	0.0	45	0.0	1500	87	0	45	0.43	0	66.2	48.4	45.1	38.3	38.3
2-3 AM	61	0.0	32	0.0	1500	61	0	32	0.43	0	66.3	48.6	45.3	38.4	38.4
3-4 AM	71	0.0	37	0.0	1500	71	0	37	0.43	0	66.3	48.5	45.2	38.4	38.4
4-5 AM	209	0.0	109	0.0	1500	209	0	109	0.44	0	66.0	48.0	44.6	38.1	38.1
5-6 AM	374	0.0	196	0.0	1500	374	0	196	0.46	0	65.7	47.4	44.0	37.7	37.7
6-7 AM	828	0.0	432	0.0	1500	828	0	432	0.50	0	64.8	45.7	42.3	36.7	36.7
7-8 AM	1057	0.0	553	0.0	1500	1057	0	553	0.52	0	64.4	44.9	41.5	34.8	34.8
8-9 AM	843	0.0	441	0.0	1500	843	0	441	0.50	0	64.8	45.6	42.2	36.6	36.6
9-10 AM	877	0.0	459	0.0	1500	877	0	459	0.51	0	64.8	45.5	42.1	36.4	36.4
10-11 AM	1018	0.0	532	0.0	1500	1018	0	532	0.52	0	64.5	45.1	41.6	35.1	35.1
11A-NOON	1172	0.0	614	0.0	1500	1172	0	614	0.60	0	64.2	42.9	39.4	33.7	33.7
NOON-1PM	1311	0.0	686	0.0	1500	1311	0	686	0.78	0	64.0	38.9	35.2	32.4	32.4
1-2 PM	1412	0.0	738	0.0	1499	1412	0	738	0.91	0	63.8	36.5	32.7	31.5	31.5
2-3 PM	1616	0.0	845	0.0	1499	1616	0	845+	2.33	43	63.4	22.4	30.8	28.6	28.6
3-4 PM	1885	0.0	985	0.0	1500	1880	4	990+	11.38	297	62.8	9.3	30.8	22.7	23.8
4-5 PM	1958	0.0	1023	0.0	1499	1497	461	1484+	18.96	484	62.7	7.5	30.8	21.1	21.4
5-6 PM	1681	0.0	879	0.0	1499	1441	240	1119+	18.52	472	63.3	7.5	30.8	27.1	21.8
6-7 PM	1289	0.0	674	0.0	1499	1193	95	770	10.78	276	64.0	9.6	31.4	32.7	30.7
7-8 PM	947	0.0	495	0.0	1500	947	0	495	0.80	16	64.6	39.0	41.7	35.8	35.8
8-9 PM	804	0.0	421	0.0	1500	804	0	421	0.50	0	64.9	45.8	42.4	36.8	36.8
9-10 PM	577	0.0	302	0.0	1500	577	0	302	0.48	0	65.3	46.6	43.2	37.3	37.3
10-11 PM	460	0.0	241	0.0	1500	460	0	241	0.47	0	65.5	47.0	43.7	37.5	37.5
11PM-MID	306	0.0	160	0.0	1500	306	0	160	0.45	0	65.8	47.6	44.3	37.8	37.8

+ 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	0.0043
MAIN ROUTE WITH WORKS	0.0028
DIVERSION	0.1035

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$28,735
CONGESTED HOURS PER DAY*	2

*Delays Exceeding 15 Minutes

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DIVERSION ROUTE: BUS 51, IH 39**

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

