

**USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY)
OFF-PEAK DAY 2 LANE CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

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		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	345	0.0	OFF	345	0	0.00	0	70.2	70.2	70.2
1-2 AM	260	0.0	OFF	260	0	0.00	0	70.2	70.2	70.2
2-3 AM	266	0.0	OFF	266	0	0.00	0	70.2	70.2	70.2
3-4 AM	371	0.0	OFF	371	0	0.00	0	70.2	70.2	70.2
4-5 AM	745	0.0	OFF	745	0	0.00	0	69.8	69.8	69.8
5-6 AM	2210	0.0	OFF	2210	0	0.00	0	68.0	68.0	68.0
6-7 AM	4736	0.0	OFF	4736	0	0.00	0	58.5	58.5	58.5
7-8 AM	5611	0.0	OFF	5611	0	0.00	0	52.5	52.5	52.5
8-9 AM	4433	0.0	OFF	4433	0	0.00	0	60.5	60.5	60.5
9-10 AM	3325	0.0	OFF	3325	0	0.00	0	66.6	66.6	66.6
10-11 AM	3072	0.0	1499	1545	1527	16.38+	408	66.9	8.1	36.6
11AM-NOON	3177	0.0	1499	1594	1582	14.87+	392	66.8	8.8	36.1
NOON-1PM	3217	0.0	1499	1869	1348	15.62+	391	66.8	8.3	31.5
1-2 PM	3261	0.0	1499	1483	1778	16.64+	409	66.7	7.9	31.5
2-3 PM	3881	0.0	1499	1495	2385	16.64+	410	64.3	7.9	30.8
3-4 PM	4312	0.0	OFF	4312	0	0.83	70	61.4	44.8	44.8
4-5 PM	4285	0.0	OFF	4285	0	0.00	0	61.6	61.6	61.6
5-6 PM	4129	0.0	OFF	4129	0	0.00	0	62.7	62.7	62.7
6-7 PM	3075	0.0	OFF	3075	0	0.00	0	66.9	66.9	66.9
7-8 PM	1966	0.0	OFF	1966	0	0.00	0	68.3	68.3	68.3
8-9 PM	1504	0.0	OFF	1504	0	0.00	0	68.9	68.9	68.9
9-10 PM	1312	0.0	OFF	1312	0	0.00	0	69.1	69.1	69.1
10-11 PM	950	0.0	OFF	950	0	0.00	0	69.6	69.6	69.6
11PM-MID	854	0.0	OFF	854	0	0.00	0	69.7	69.7	69.7

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

----- SITE BREAKDOWN DELAYS -----

BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----

BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)

MAIN ROUTE WITHOUT WORKS	0.0224
MAIN ROUTE WITH WORKS	0.0187
'DIVERSION'	0.0073

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS

ROAD USER COSTS PER DAY	\$58,353
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

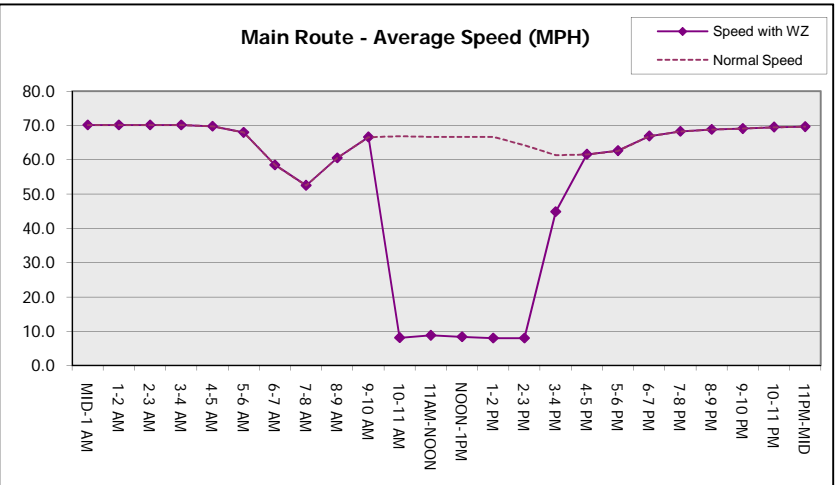
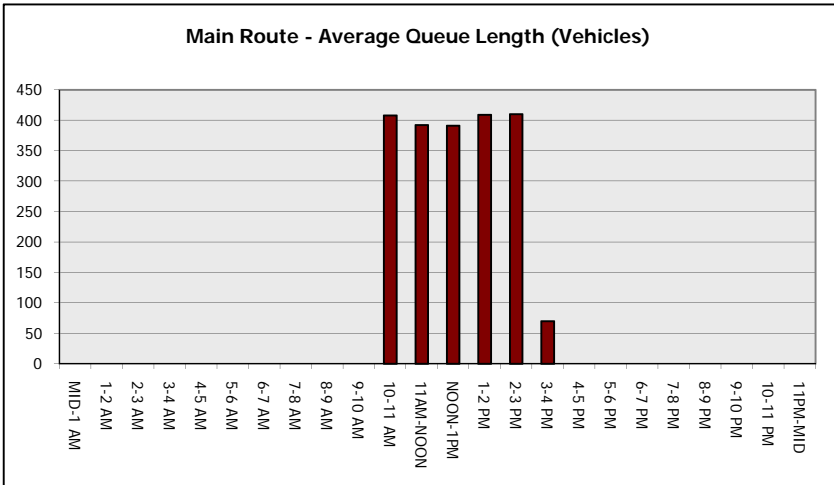
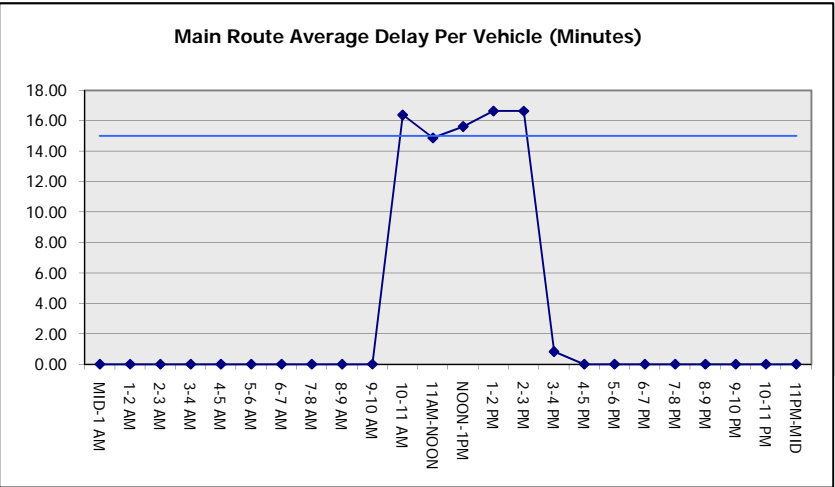
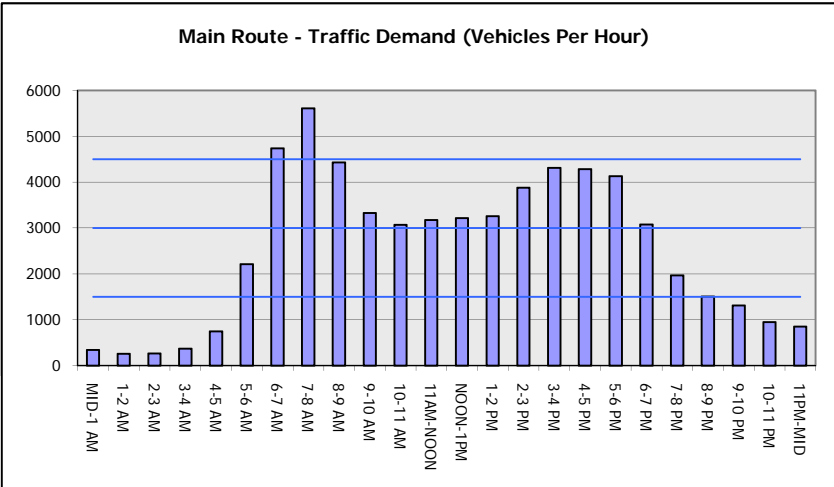
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR SOUTHBOUND DIRECTION



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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 ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	421	0.0	OFF	421	0	0.00	0	70.2	70.2	70.2
1-2 AM	290	0.0	OFF	290	0	0.00	0	70.2	70.2	70.2
2-3 AM	270	0.0	OFF	270	0	0.00	0	70.2	70.2	70.2
3-4 AM	332	0.0	OFF	332	0	0.00	0	70.2	70.2	70.2
4-5 AM	678	0.0	OFF	678	0	0.00	0	69.9	69.9	69.9
5-6 AM	2001	0.0	OFF	2001	0	0.00	0	68.2	68.2	68.2
6-7 AM	3822	0.0	OFF	3822	0	0.00	0	64.8	64.8	64.8
7-8 AM	4904	0.0	OFF	4904	0	0.00	0	57.4	57.4	57.4
8-9 AM	4096	0.0	OFF	4096	0	0.00	0	62.8	62.8	62.8
9-10 AM	2901	0.0	OFF	2901	0	0.00	0	67.1	67.1	67.1
10-11 AM	2815	0.0	1499	1750	1065	14.23+	356	67.3	8.8	35.5
11AM-NOON	2939	0.0	1499	1598	1341	16.41+	402	67.1	8.0	30.8
NOON-1PM	3187	0.0	1500	1513	1674	16.68+	409	66.8	7.9	30.8
1-2 PM	3422	0.0	1500	1504	1918	16.71+	410	66.5	7.9	30.8
2-3 PM	4265	0.0	1500	1500	2765	16.55+	411	61.7	7.9	30.8
3-4 PM	5159	0.0	OFF	5159	0	0.91	79	55.6	40.7	40.7
4-5 PM	5848	0.0	OFF	5848	0	0.00	0	50.9	50.9	50.9
5-6 PM	5627	0.0	OFF	5627	0	0.00	0	52.4	52.4	52.4
6-7 PM	3613	0.0	OFF	3613	0	0.00	0	66.2	66.2	66.2
7-8 PM	2361	0.0	OFF	2361	0	0.00	0	67.8	67.8	67.8
8-9 PM	1972	0.0	OFF	1972	0	0.00	0	68.3	68.3	68.3
9-10 PM	1790	0.0	OFF	1790	0	0.00	0	68.5	68.5	68.5
10-11 PM	1385	0.0	OFF	1385	0	0.00	0	69.0	69.0	69.0
11PM-MID	829	0.0	OFF	829	0	0.00	0	69.7	69.7	69.7

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0238
MAIN ROUTE WITH WORKS	0.0200
'DIVERSION'	0.0074

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$59,146
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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