

**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

SATURDAY 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	548	0.0	OFF	548	0	0.00	0	70.0	70.0	70.0	
1-2 AM	329	0.0	OFF	329	0	0.00	0	70.2	70.2	70.2	
2-3 AM	251	0.0	OFF	251	0	0.00	0	70.2	70.2	70.2	
3-4 AM	280	0.0	OFF	280	0	0.00	0	70.2	70.2	70.2	
4-5 AM	380	0.0	OFF	380	0	0.00	0	70.2	70.2	70.2	
5-6 AM	686	0.0	OFF	686	0	0.00	0	69.9	69.9	69.9	
6-7 AM	1193	0.0	OFF	1193	0	0.00	0	69.2	69.2	69.2	
7-8 AM	1797	0.0	OFF	1797	0	0.00	0	68.5	68.5	68.5	
8-9 AM	2362	0.0	1499	1871	491	11.23+	295	67.8	10.7	30.8	
9-10 AM	2800	0.0	1500	1512	1288	16.66+	408	67.3	7.9	30.8	
10-11 AM	3245	0.0	1500	1503	1741	16.72+	410	66.7	7.9	30.8	
11AM-NOON	3277	0.0	1500	1502	1775	16.72+	410	66.6	7.9	30.8	
NOON-1PM	3533	0.0	1500	1500	2033	16.72+	411	66.3	7.9	30.8	
1-2 PM	3203	0.0	1500	1503	1700	16.72+	410	66.8	7.9	30.8	
2-3 PM	3320	0.0	1499	1500	1820	16.73+	411	66.6	7.9	30.8	
3-4 PM	3348	0.0	1500	1500	1848	16.73+	411	66.6	7.9	30.8	
4-5 PM	3201	0.0	1500	1503	1699	16.72+	410	66.8	7.9	30.8	
5-6 PM	2971	0.0	1500	1506	1465	16.69+	409	67.1	7.9	30.8	
6-7 PM	2529	0.0	OFF	2529	0	0.25	23	67.6	60.3	60.3	
7-8 PM	2036	0.0	OFF	2036	0	0.00	0	68.2	68.2	68.2	
8-9 PM	1611	0.0	OFF	1611	0	0.00	0	68.7	68.7	68.7	
9-10 PM	1466	0.0	OFF	1466	0	0.00	0	68.9	68.9	68.9	
10-11 PM	1165	0.0	OFF	1165	0	0.00	0	69.3	69.3	69.3	
11PM-MID	904	0.0	OFF	904	0	0.00	0	69.6	69.6	69.6	

"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	0.0170
MAIN ROUTE WITH WORKS	0.0102
'DIVERSION'	0.0134
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$140,559
CONGESTED HOURS PER DAY*	10

*Delays Exceeding User-Specified Maximum

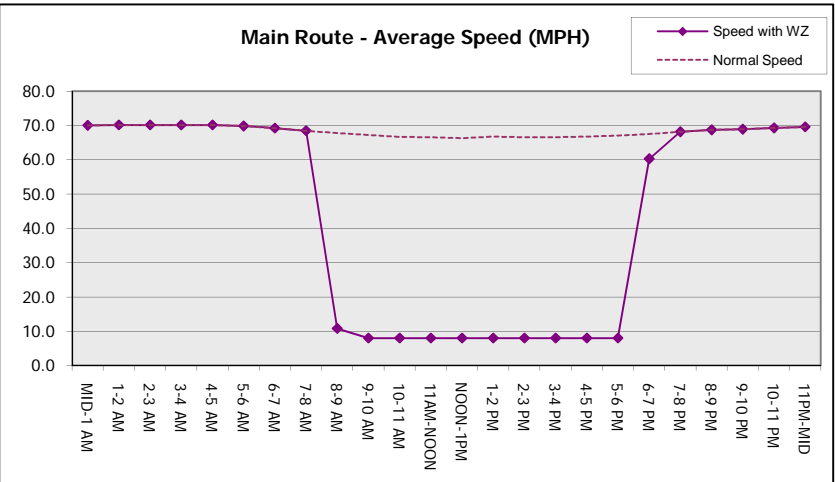
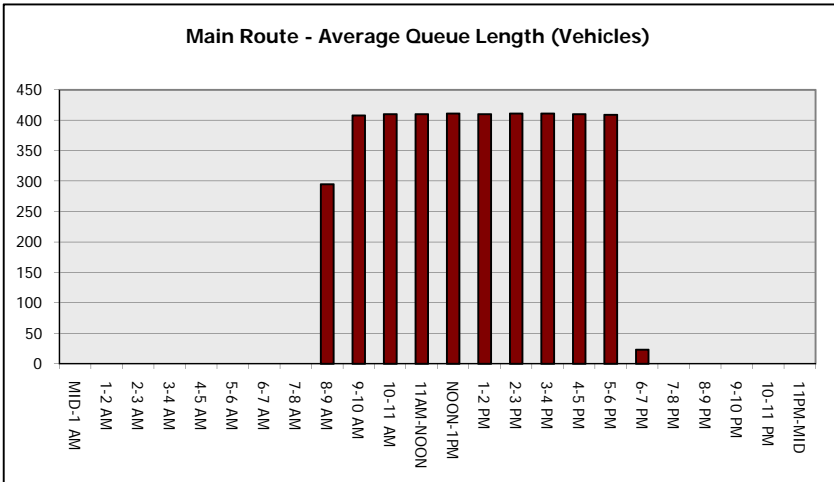
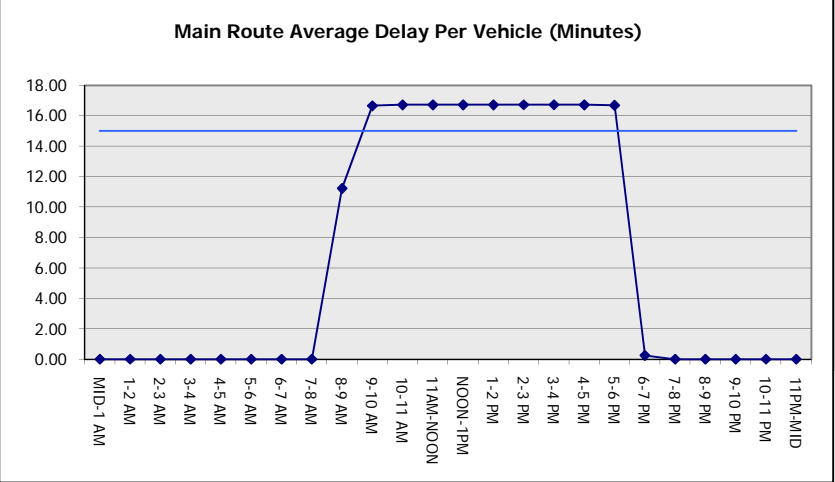
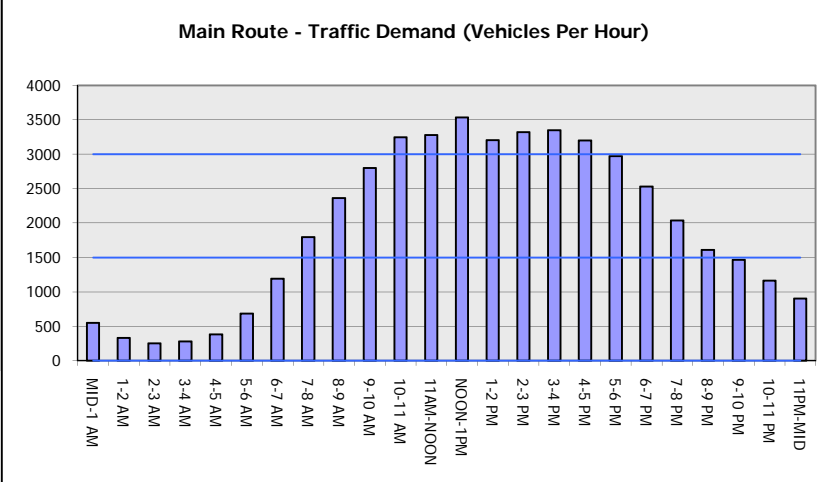
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	757	0.0	OFF	757	0	0.00	0	69.8	69.8	69.8
1-2 AM	450	0.0	OFF	450	0	0.00	0	70.2	70.2	70.2
2-3 AM	394	0.0	OFF	394	0	0.00	0	70.2	70.2	70.2
3-4 AM	334	0.0	OFF	334	0	0.00	0	70.2	70.2	70.2
4-5 AM	429	0.0	OFF	429	0	0.00	0	70.2	70.2	70.2
5-6 AM	774	0.0	OFF	774	0	0.00	0	69.8	69.8	69.8
6-7 AM	1202	0.0	OFF	1202	0	0.00	0	69.2	69.2	69.2
7-8 AM	1735	0.0	OFF	1735	0	0.00	0	68.6	68.6	68.6
8-9 AM	2295	0.0	1499	1845	450	10.78+	289	67.9	11.2	30.8
9-10 AM	2653	0.0	1500	1514	1138	16.67+	408	67.4	7.9	30.8
10-11 AM	3046	0.0	1500	1513	1533	16.68+	409	66.9	7.9	30.8
11AM-NOON	3367	0.0	1500	1503	1865	16.72+	410	66.6	7.9	30.8
NOON-1PM	3511	0.0	1500	1500	2011	16.72+	411	66.4	7.9	30.8
1-2 PM	3424	0.0	1500	1501	1923	16.72+	411	66.5	7.9	30.8
2-3 PM	3441	0.0	1500	1500	1941	16.72+	411	66.4	7.9	30.8
3-4 PM	3490	0.0	1500	1500	1990	16.72+	411	66.4	7.9	30.8
4-5 PM	3267	0.0	1500	1505	1763	16.71+	410	66.7	7.9	30.8
5-6 PM	2949	0.0	1500	1510	1439	16.68+	409	67.1	7.9	30.8
6-7 PM	2574	0.0	OFF	2574	0	0.24	22	67.6	60.5	60.5
7-8 PM	2176	0.0	OFF	2176	0	0.00	0	68.0	68.0	68.0
8-9 PM	1875	0.0	OFF	1875	0	0.00	0	68.4	68.4	68.4
9-10 PM	1764	0.0	OFF	1764	0	0.00	0	68.6	68.6	68.6
10-11 PM	1558	0.0	OFF	1558	0	0.00	0	68.8	68.8	68.8
11PM-MID	1157	0.0	OFF	1157	0	0.00	0	69.3	69.3	69.3

"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	0.0178
MAIN ROUTE WITH WORKS	0.0109
'DIVERSION'	0.0136

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$141,156
CONGESTED HOURS PER DAY*	10

*Delays Exceeding User-Specified Maximum

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SATURDAY NORTHBOUND DIRECTION**

