

<b>USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>MAY</b>
	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	1500	345	0	0.51	0	70.2	55.6	44.1	
1-2 AM	223	0.0	1500	223	0	0.50	0	70.2	56.0	44.6	
2-3 AM	224	0.0	1500	224	0	0.50	0	70.2	56.0	44.6	
3-4 AM	348	0.0	1500	348	0	0.51	0	70.2	55.6	44.1	
4-5 AM	695	0.0	1500	695	0	0.55	0	69.9	54.5	42.8	
5-6 AM	2134	0.0	OFF	2134	0	0.00	0	68.1	68.1	68.1	
6-7 AM	4533	0.0	OFF	4533	0	0.00	0	59.9	59.9	59.9	
7-8 AM	5538	0.0	OFF	5538	0	0.00	0	53.0	53.0	53.0	
8-9 AM	4385	0.0	OFF	4385	0	0.00	0	60.9	60.9	60.9	
9-10 AM	3346	0.0	OFF	3346	0	0.00	0	66.6	66.6	66.6	
10-11 AM	3242	0.0	OFF	3242	0	0.00	0	66.7	66.7	66.7	
11AM-NOON	3367	0.0	OFF	3367	0	0.00	0	66.6	66.6	66.6	
NOON-1PM	3354	0.0	OFF	3354	0	0.00	0	66.6	66.6	66.6	
1-2 PM	3366	0.0	OFF	3366	0	0.00	0	66.6	66.6	66.6	
2-3 PM	3991	0.0	OFF	3991	0	0.00	0	63.6	63.6	63.6	
3-4 PM	4463	0.0	OFF	4463	0	0.00	0	60.4	60.4	60.4	
4-5 PM	4386	0.0	OFF	4386	0	0.00	0	60.9	60.9	60.9	
5-6 PM	4262	0.0	OFF	4262	0	0.00	0	61.7	61.7	61.7	
6-7 PM	3096	0.0	OFF	3096	0	0.00	0	66.9	66.9	66.9	
7-8 PM	2104	0.0	1499	1887	217	11.51+	300	68.1	10.6	30.8	
8-9 PM	1746	0.0	1500	1501	245	16.62+	406	68.6	7.9	30.8	
9-10 PM	1452	0.0	1500	1452	0	15.81+	385	68.9	8.2	30.8	
10-11 PM	1053	0.0	1499	1053	0	3.64	145	69.4	24.5	36.9	
11PM-MID	875	0.0	1500	875	0	0.57	0	69.7	54.0	42.1	

"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	0.0229
MAIN ROUTE WITH WORKS	0.0221
'DIVERSION'	0.0004
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$19,172
CONGESTED HOURS PER DAY*	3

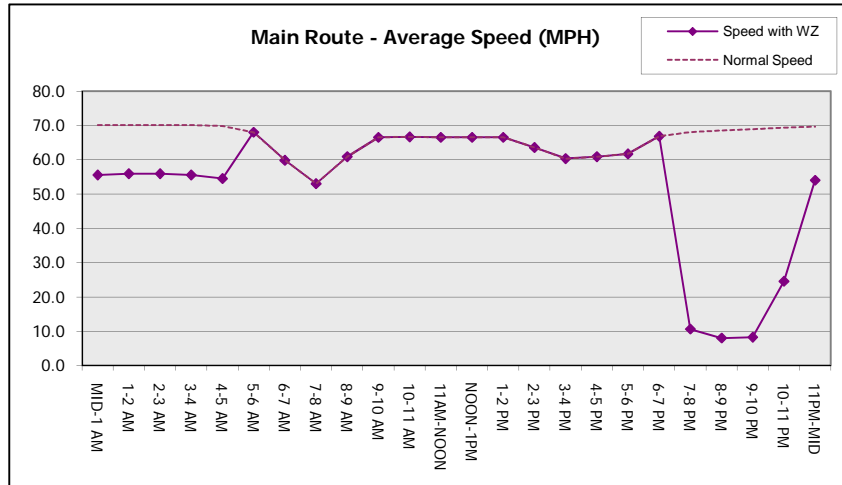
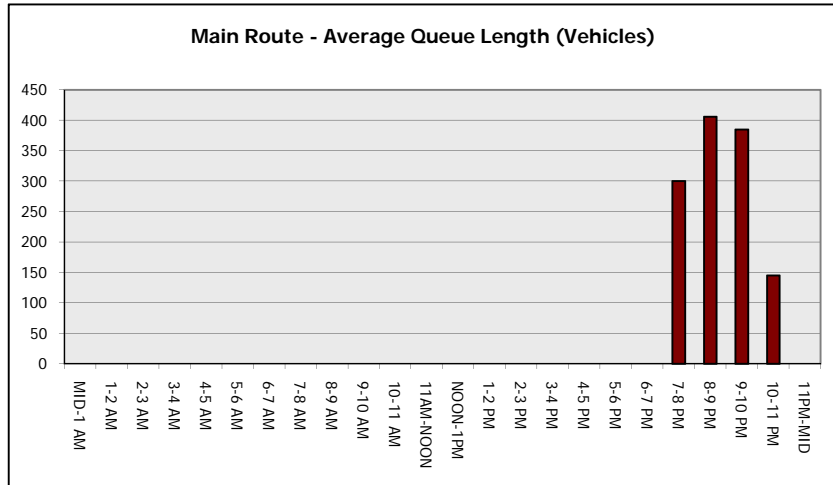
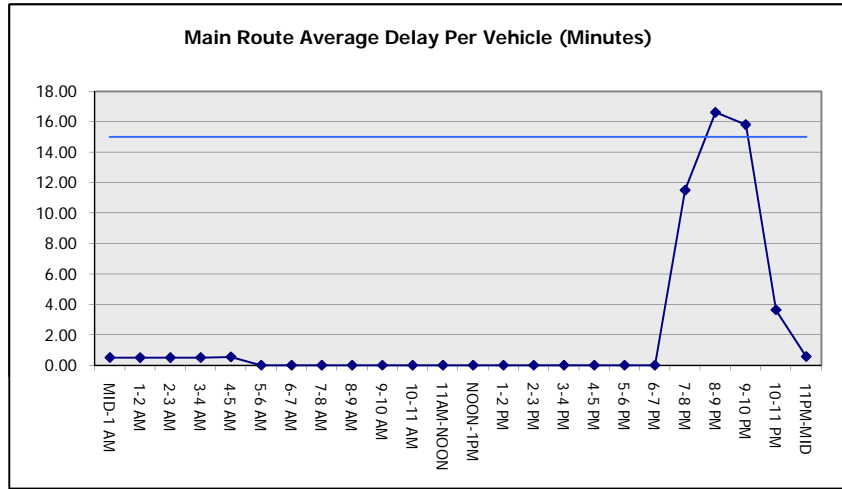
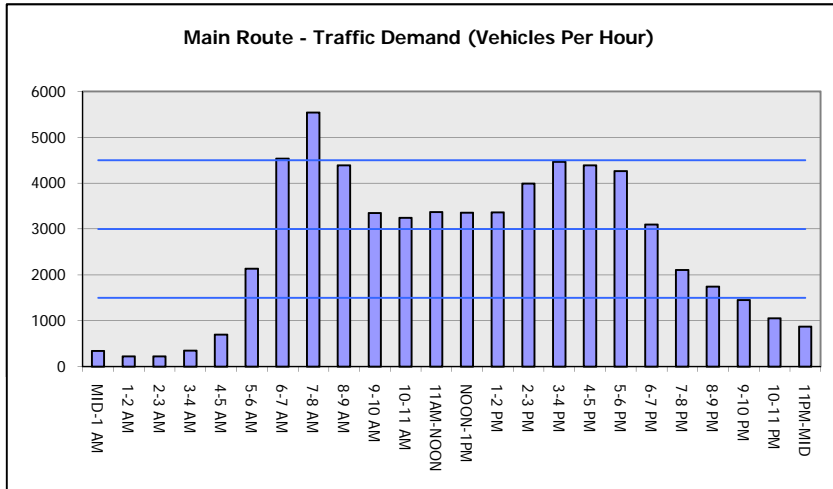
\*Delays Exceeding User-Specified Maximum

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 NIGHTTIME 2 LANE CLOSURE  
 NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**MAY**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**MON-THUR SOUTHBOUND DIRECTION**



<b>USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>MAY</b>
	Analyzed for 2009 Construction Season

**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	431	0.0	1500	431	0	0.53	0	70.2	55.4	43.8
1-2 AM	291	0.0	1500	291	0	0.51	0	70.2	55.8	44.3
2-3 AM	254	0.0	1500	254	0	0.50	0	70.2	55.8	44.5
3-4 AM	314	0.0	1500	314	0	0.51	0	70.2	55.7	44.2
4-5 AM	608	0.0	1500	608	0	0.54	0	70.0	54.8	43.1
5-6 AM	1935	0.0	OFF	1935	0	0.00	0	68.3	68.3	68.3
6-7 AM	3702	0.0	OFF	3702	0	0.00	0	65.6	65.6	65.6
7-8 AM	4603	0.0	OFF	4603	0	0.00	0	59.4	59.4	59.4
8-9 AM	3959	0.0	OFF	3959	0	0.00	0	63.8	63.8	63.8
9-10 AM	2933	0.0	OFF	2933	0	0.00	0	67.1	67.1	67.1
10-11 AM	2811	0.0	OFF	2811	0	0.00	0	67.3	67.3	67.3
11AM-NOON	3038	0.0	OFF	3038	0	0.00	0	66.9	66.9	66.9
NOON-1PM	3216	0.0	OFF	3216	0	0.00	0	66.8	66.8	66.8
1-2 PM	3441	0.0	OFF	3441	0	0.00	0	66.4	66.4	66.4
2-3 PM	4213	0.0	OFF	4213	0	0.00	0	62.1	62.1	62.1
3-4 PM	5022	0.0	OFF	5022	0	0.00	0	56.6	56.6	56.6
4-5 PM	5640	0.0	OFF	5640	0	0.00	0	52.4	52.4	52.4
5-6 PM	5573	0.0	OFF	5573	0	0.00	0	52.8	52.8	52.8
6-7 PM	3441	0.0	OFF	3441	0	0.00	0	66.4	66.4	66.4
7-8 PM	2353	0.0	1499	1911	442	13.06+	324	67.8	9.4	31.5
8-9 PM	2053	0.0	1499	1500	553	16.62+	406	68.2	7.9	30.8
9-10 PM	1853	0.0	1500	1500	353	16.62+	406	68.4	7.9	30.8
10-11 PM	1520	0.0	1500	1448	73	16.19+	395	68.9	8.1	30.8
11PM-MID	852	0.0	1499	852	0	2.53	121	69.7	30.6	39.4

"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	0.0234
MAIN ROUTE WITH WORKS	0.0223
'DIVERSION'	0.0012

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$29,037
CONGESTED HOURS PER DAY*	4

\*Delays Exceeding User-Specified Maximum

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

