

<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**

SUNDAY 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	502	0.0	1500	502	0	0.53	0	70.1	55.1	43.5	
1-2 AM	301	0.0	1500	301	0	0.51	0	70.2	55.7	44.3	
2-3 AM	230	0.0	1500	230	0	0.50	0	70.2	56.0	44.6	
3-4 AM	182	0.0	1500	182	0	0.49	0	70.2	56.1	44.8	
4-5 AM	204	0.0	1500	204	0	0.50	0	70.2	56.0	44.6	
5-6 AM	325	0.0	1500	325	0	0.51	0	70.2	55.6	44.2	
6-7 AM	641	0.0	1500	641	0	0.55	0	69.9	54.7	43.0	
7-8 AM	886	0.0	1500	886	0	0.57	0	69.6	54.0	42.1	
8-9 AM	1307	0.0	1499	1307	0	0.83	0	69.1	48.7	35.7	
9-10 AM	2009	0.0	OFF	2009	0	0.00	0	68.2	68.2	68.2	
10-11 AM	2826	0.0	OFF	2826	0	0.00	0	67.2	67.2	67.2	
11AM-NOON	3442	0.0	OFF	3442	0	0.00	0	66.4	66.4	66.4	
NOON-1PM	3595	0.0	OFF	3595	0	0.00	0	66.3	66.3	66.3	
1-2 PM	3432	0.0	OFF	3432	0	0.00	0	66.4	66.4	66.4	
2-3 PM	3388	0.0	OFF	3388	0	0.00	0	66.5	66.5	66.5	
3-4 PM	3212	0.0	OFF	3212	0	0.00	0	66.8	66.8	66.8	
4-5 PM	3176	0.0	OFF	3176	0	0.00	0	66.8	66.8	66.8	
5-6 PM	2903	0.0	OFF	2903	0	0.00	0	67.1	67.1	67.1	
6-7 PM	2614	0.0	OFF	2614	0	0.00	0	67.5	67.5	67.5	
7-8 PM	2285	0.0	1499	1940	345	12.32+	313	67.9	9.9	30.8	
8-9 PM	1837	0.0	1499	1480	358	16.55+	404	68.4	8.0	30.8	
9-10 PM	1381	0.0	1499	1357	24	15.02+	367	69.0	8.4	30.8	
10-11 PM	981	0.0	1499	981	0	2.22	89	69.5	32.8	38.7	
11PM-MID	605	0.0	1500	605	0	0.54	0	70.0	54.8	43.1	

"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

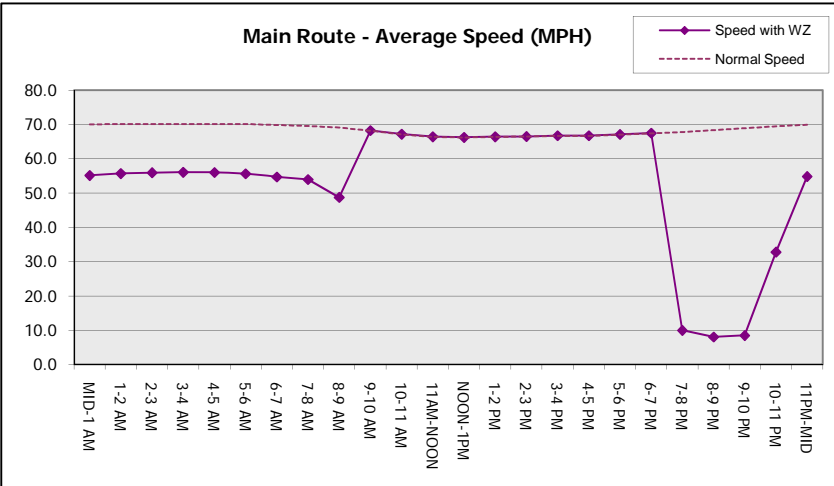
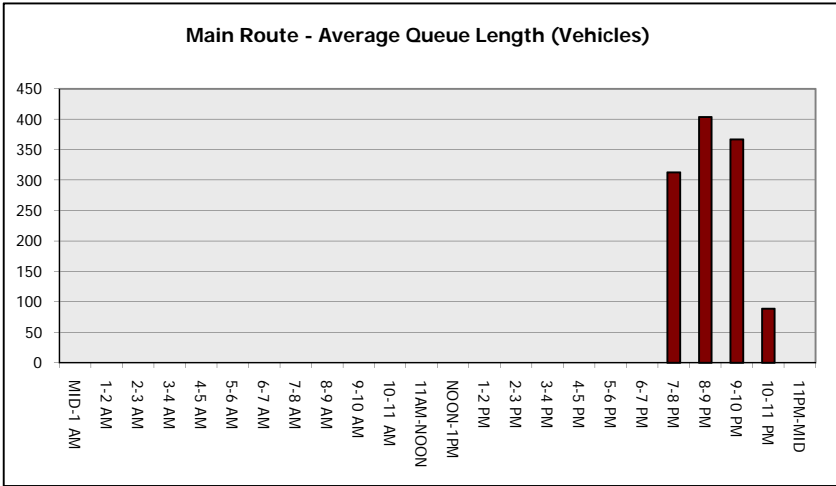
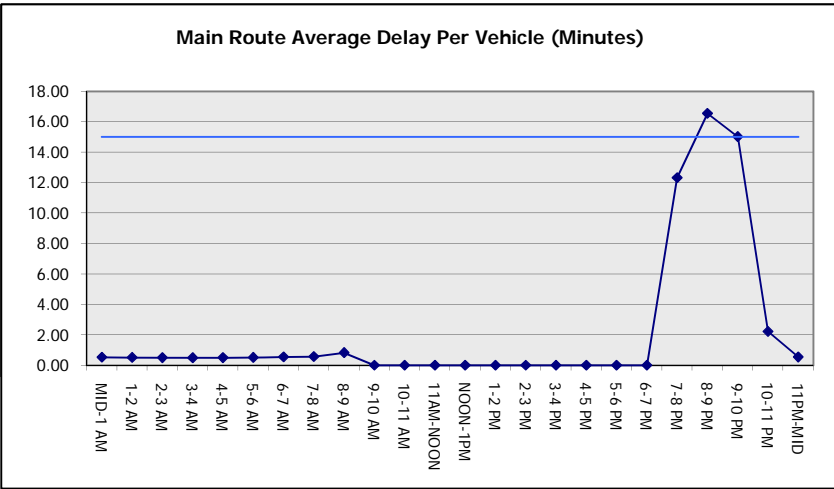
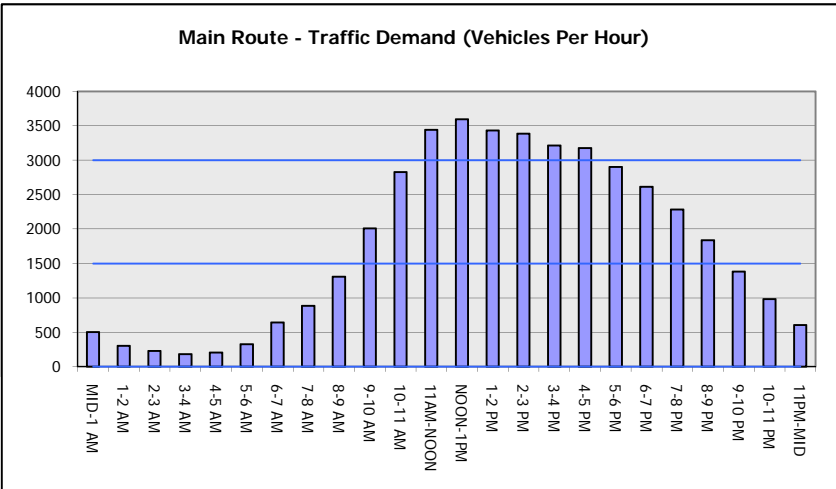
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0155
MAIN ROUTE WITH WORKS	0.0145
'DIVERSION'	0.0006
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$23,118
CONGESTED HOURS PER DAY*	3

\*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**  
**SUNDAY 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**

SUNDAY 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	698	0.0	1500	698	0	0.55	0	69.9	54.5	42.8	
1-2 AM	433	0.0	1500	433	0	0.53	0	70.2	55.4	43.8	
2-3 AM	373	0.0	1500	373	0	0.52	0	70.2	55.5	44.0	
3-4 AM	226	0.0	1500	226	0	0.50	0	70.2	56.0	44.6	
4-5 AM	194	0.0	1500	194	0	0.50	0	70.2	56.0	44.7	
5-6 AM	316	0.0	1500	316	0	0.51	0	70.2	55.7	44.2	
6-7 AM	561	0.0	1500	561	0	0.54	0	70.0	55.0	43.3	
7-8 AM	836	0.0	1500	836	0	0.57	0	69.7	54.2	42.3	
8-9 AM	1241	0.0	1499	1241	0	0.75	0	69.2	50.2	37.5	
9-10 AM	1815	0.0	OFF	1815	0	0.00	0	68.5	68.5	68.5	
10-11 AM	2228	0.0	OFF	2228	0	0.00	0	67.9	67.9	67.9	
11AM-NOON	2513	0.0	OFF	2513	0	0.00	0	67.6	67.6	67.6	
NOON-1PM	3055	0.0	OFF	3055	0	0.00	0	66.9	66.9	66.9	
1-2 PM	2887	0.0	OFF	2887	0	0.00	0	67.1	67.1	67.1	
2-3 PM	3000	0.0	OFF	3000	0	0.00	0	67.0	67.0	67.0	
3-4 PM	3087	0.0	OFF	3087	0	0.00	0	66.9	66.9	66.9	
4-5 PM	3353	0.0	OFF	3353	0	0.00	0	66.6	66.6	66.6	
5-6 PM	3001	0.0	OFF	3001	0	0.00	0	67.0	67.0	67.0	
6-7 PM	2383	0.0	OFF	2383	0	0.00	0	67.8	67.8	67.8	
7-8 PM	2017	0.0	1499	1920	97	9.99+	268	68.2	11.8	30.8	
8-9 PM	1589	0.0	1500	1474	115	16.52+	403	68.7	8.0	30.8	
9-10 PM	1307	0.0	1499	1307	0	12.84	314	69.1	9.5	30.8	
10-11 PM	1048	0.0	1499	1048	0	1.76	55	69.4	36.8	38.6	
11PM-MID	597	0.0	1500	597	0	0.54	0	70.0	54.8	43.2	

"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	0.0142
MAIN ROUTE WITH WORKS	0.0134
'DIVERSION'	0.0002

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$18,639
CONGESTED HOURS PER DAY*	2

\*Delays Exceeding User-Specified Maximum

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**MAY**  
Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY NORTHBOUND DIRECTION**

