

<b>USH 45: STH 190 TO NORTH AVE (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**

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	493	0.0	2000	493	0	0.53	0	70.1	54.1	43.5	
1-2 AM	540	0.0	2000	540	0	0.54	0	70.0	54.0	43.3	
2-3 AM	858	0.0	2000	858	0	0.57	0	69.7	52.9	42.2	
3-4 AM	1352	0.0	1999	1352	0	0.89	0	69.1	46.3	34.4	
4-5 AM	1857	0.0	1999	1857	0	1.30	0	68.4	40.1	27.9	
5-6 AM	2503	0.0	2000	2503	0	5.93	213	67.6	16.6	27.9	
6-7 AM	3100	0.0	1999	2042	1058	17.23+	567	66.9	8.3	27.9	
7-8 AM	3635	0.0	2000	2019	1616	17.48+	577	66.0	8.3	27.9	
8-9 AM	4240	0.0	OFF	4240	0	1.04	90	61.9	40.9	40.9	
9-10 AM	4438	0.0	OFF	4438	0	0.00	0	60.5	60.5	60.5	
10-11 AM	4562	0.0	OFF	4562	0	0.00	0	59.7	59.7	59.7	
11AM-NOON	4681	0.0	OFF	4681	0	0.00	0	58.9	58.9	58.9	
NOON-1PM	4763	0.0	OFF	4763	0	0.00	0	58.3	58.3	58.3	
1-2 PM	4516	0.0	OFF	4516	0	0.00	0	60.0	60.0	60.0	
2-3 PM	4080	0.0	OFF	4080	0	0.00	0	63.0	63.0	63.0	
3-4 PM	3633	0.0	OFF	3633	0	0.00	0	66.0	66.0	66.0	
4-5 PM	3064	0.0	OFF	3064	0	0.00	0	66.9	66.9	66.9	
5-6 PM	2716	0.0	OFF	2716	0	0.00	0	67.4	67.4	67.4	
6-7 PM	2489	0.0	1999	2489	0	7.84	268	67.6	13.7	27.9	
7-8 PM	1960	0.0	1999	1960	0	15.43+	502	68.3	8.8	27.9	
8-9 PM	1444	0.0	1999	1444	0	4.54	205	68.9	20.3	29.8	
9-10 PM	1157	0.0	2000	1157	0	0.65	0	69.3	51.0	39.9	
10-11 PM	925	0.0	2000	925	0	0.58	0	69.6	52.7	41.9	
11PM-MID	673	0.0	2000	673	0	0.55	0	69.9	53.5	42.8	

"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

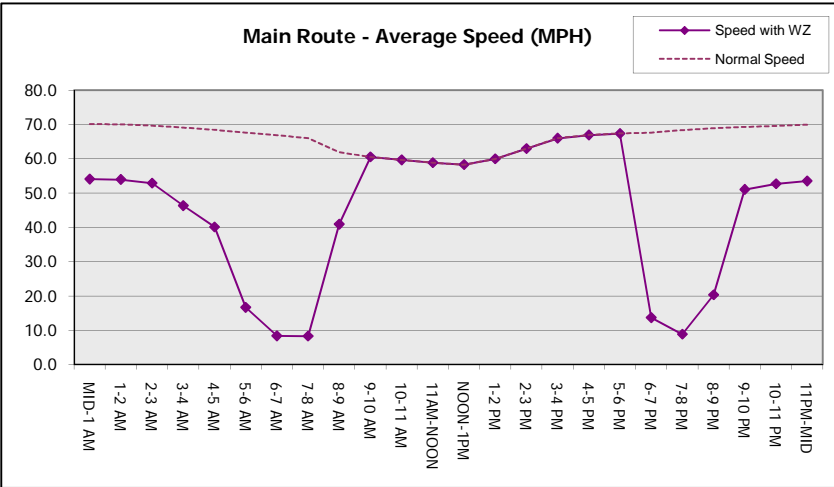
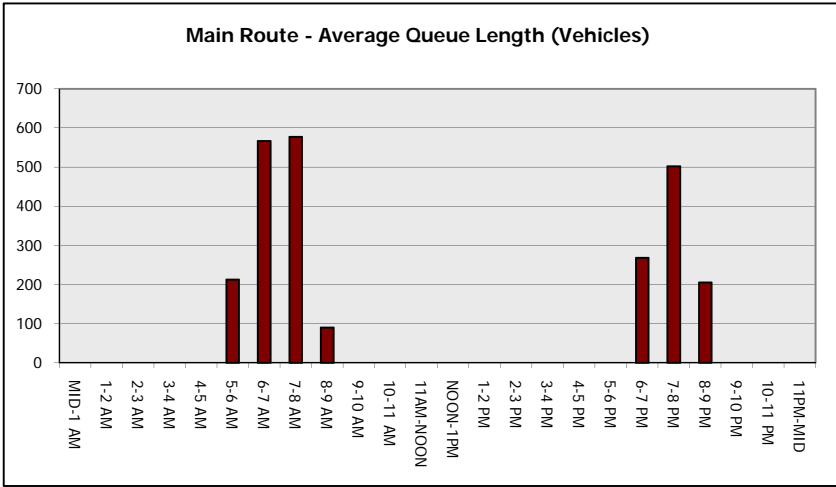
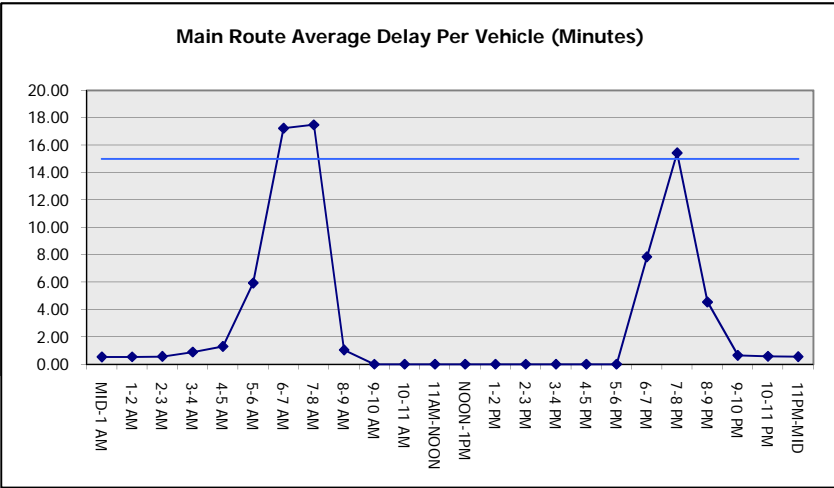
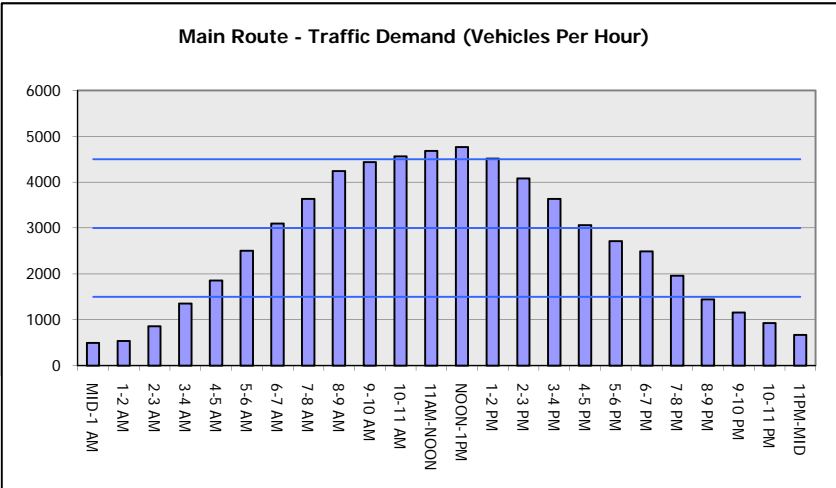
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0213
MAIN ROUTE WITH WORKS	0.0190
'DIVERSION'	0.0021
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$46,840
CONGESTED HOURS PER DAY*	3

\*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**  
**SATURDAY SOUTHBOUND DIRECTION**



<b>USH 45: STH 190 TO NORTH AVE (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**

**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	1446	0.0	2000	1446	0	1.21	9	68.9	41.4	31.6
1-2 AM	1482	0.0	2000	1482	0	1.07	0	68.9	43.4	31.2
2-3 AM	1866	0.0	1999	1866	0	1.29	0	68.4	40.2	27.9
3-4 AM	2169	0.0	1999	2169	0	2.62	58	68.1	28.1	27.9
4-5 AM	2711	0.0	2000	2327	384	13.11+	443	67.4	9.7	27.9
5-6 AM	2990	0.0	2000	2038	952	17.21+	566	67.0	8.3	27.9
6-7 AM	3598	0.0	2000	2029	1568	17.45+	576	66.3	8.3	27.9
7-8 AM	4085	0.0	2000	2000	2085	17.44+	580	63.0	8.3	27.9
8-9 AM	4369	0.0	OFF	4369	0	1.11	97	61.0	39.6	39.6
9-10 AM	4548	0.0	OFF	4548	0	0.00	0	59.8	59.8	59.8
10-11 AM	4592	0.0	OFF	4592	0	0.00	0	59.5	59.5	59.5
11AM-NOON	4748	0.0	OFF	4748	0	0.00	0	58.4	58.4	58.4
NOON-1PM	4839	0.0	OFF	4839	0	0.00	0	57.8	57.8	57.8
1-2 PM	4686	0.0	OFF	4686	0	0.00	0	58.9	58.9	58.9
2-3 PM	4466	0.0	OFF	4466	0	0.00	0	60.4	60.4	60.4
3-4 PM	4054	0.0	OFF	4054	0	0.00	0	63.2	63.2	63.2
4-5 PM	3550	0.0	OFF	3550	0	0.00	0	66.3	66.3	66.3
5-6 PM	3559	0.0	OFF	3559	0	0.00	0	66.3	66.3	66.3
6-7 PM	3523	0.0	1999	2525	999	14.37+	473	66.4	9.1	27.9
7-8 PM	3105	0.0	1999	2024	1081	17.19+	565	66.9	8.3	27.9
8-9 PM	2440	0.0	2000	2002	438	17.10+	561	67.7	8.4	27.9
9-10 PM	2130	0.0	2000	2003	128	17.08+	560	68.1	8.4	27.9
10-11 PM	1871	0.0	1999	1871	0	15.44+	503	68.4	8.8	27.9
11PM-MID	1675	0.0	1999	1675	0	8.52	275	68.6	12.6	27.9

"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	0.0262
MAIN ROUTE WITH WORKS	0.0219
'DIVERSION'	0.0059

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$108,968
CONGESTED HOURS PER DAY*	9

\*Delays Exceeding User-Specified Maximum

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**SATURDAY NORTHBOUND DIRECTION**

