

<b>USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY)</b> <b>NIGHTTIME 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	533	0.0	3000	533	0	0.36	0	70.0	58.4	49.7
1-2 AM	725	0.0	3000	725	0	0.35	0	69.8	58.4	49.7
2-3 AM	1769	0.0	3000	1769	0	0.34	0	68.6	57.9	49.7
3-4 AM	3182	0.0	2999	3182	0	1.38	51	66.8	38.5	37.6
4-5 AM	3611	0.0	3000	3611	0	8.84	477	66.2	13.7	37.3
5-6 AM	4276	0.0	OFF	4276	0	2.14	193	61.7	30.1	30.1
6-7 AM	5061	0.0	OFF	5061	0	0.00	0	56.3	56.3	56.3
7-8 AM	5066	0.0	OFF	5066	0	0.00	0	56.3	56.3	56.3
8-9 AM	4585	0.0	OFF	4585	0	0.00	0	59.6	59.6	59.6
9-10 AM	4165	0.0	OFF	4165	0	0.00	0	62.4	62.4	62.4
10-11 AM	4307	0.0	OFF	4307	0	0.00	0	61.4	61.4	61.4
11AM-NOON	4919	0.0	OFF	4919	0	0.00	0	57.3	57.3	57.3
NOON-1PM	4797	0.0	OFF	4797	0	0.00	0	58.1	58.1	58.1
1-2 PM	4519	0.0	OFF	4519	0	0.00	0	60.0	60.0	60.0
2-3 PM	4784	0.0	OFF	4784	0	0.00	0	58.2	58.2	58.2
3-4 PM	4474	0.0	OFF	4474	0	0.00	0	60.3	60.3	60.3
4-5 PM	3619	0.0	OFF	3619	0	0.00	0	66.1	66.1	66.1
5-6 PM	3233	0.0	OFF	3233	0	0.00	0	66.7	66.7	66.7
6-7 PM	2613	0.0	OFF	2613	0	0.00	0	67.5	67.5	67.5
7-8 PM	2008	0.0	3000	2008	0	0.33	0	68.2	57.8	49.7
8-9 PM	1510	0.0	3000	1510	0	0.34	0	68.9	58.0	49.7
9-10 PM	1108	0.0	3000	1108	0	0.35	0	69.4	58.2	49.7
10-11 PM	878	0.0	3000	878	0	0.35	0	69.6	58.2	49.7
11PM-MID	616	0.0	3000	616	0	0.36	0	70.0	58.4	49.7

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

*----- 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

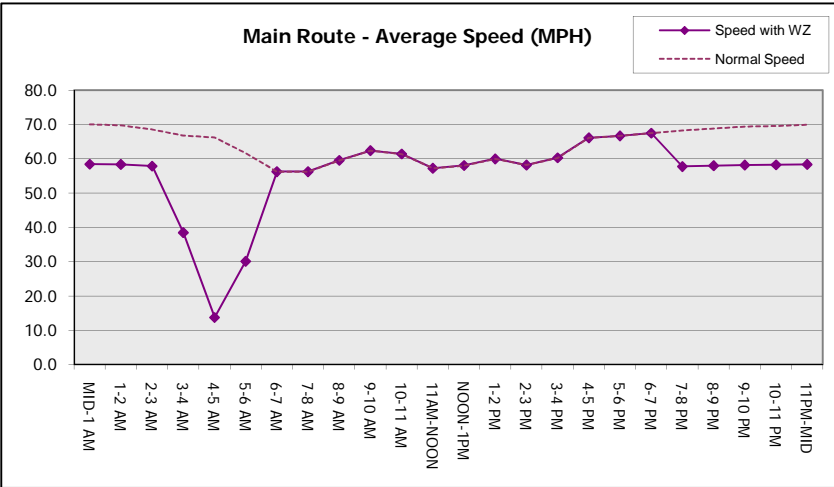
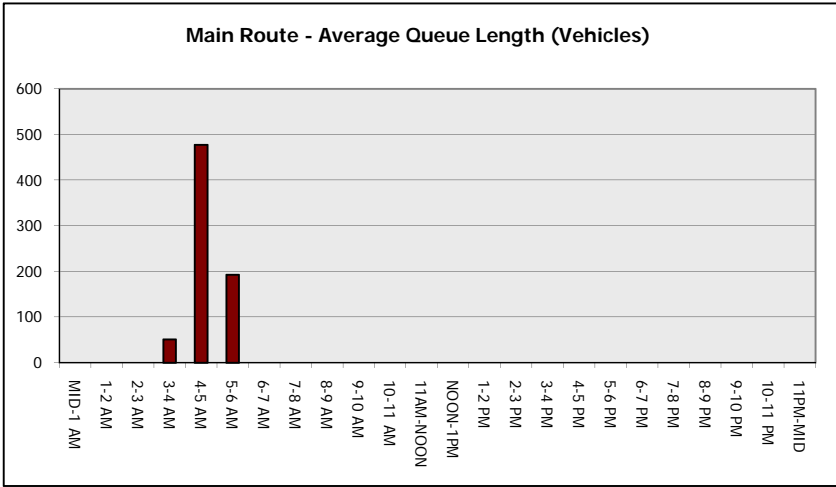
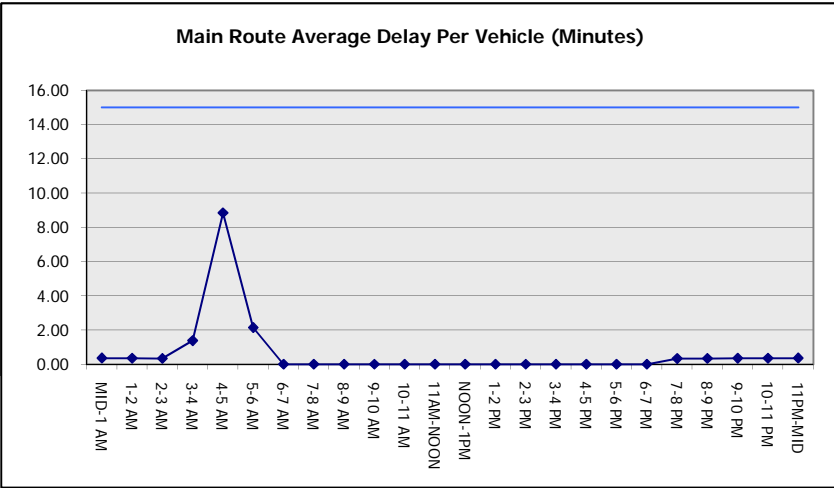
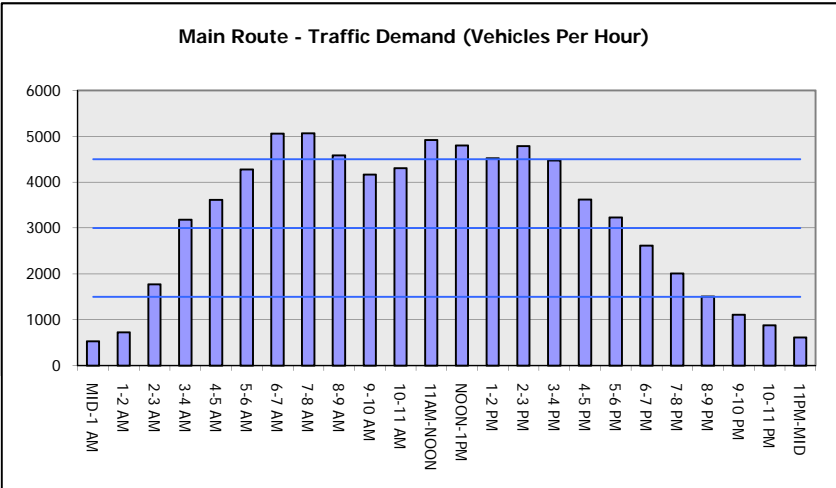
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0255
MAIN ROUTE WITH WORKS	0.0245
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$6,939
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding User-Specified Maximum

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NIGHTTIME 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 190 TO NORTH AVE (MILWAUKEE COUNTY)</b> <b>NIGHTTIME 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	1312	0.0	3000	1312	0	0.35	0	69.1	58.1	49.7
1-2 AM	1657	0.0	3000	1657	0	0.34	0	68.7	57.9	49.7
2-3 AM	2750	0.0	2999	2750	0	0.58	2	67.3	51.4	42.2
3-4 AM	3791	0.0	3000	3791	0	5.75	349	65.0	18.0	37.3
4-5 AM	4485	0.0	2999	3151	1334	17.29+	932	60.2	10.1	37.3
5-6 AM	4832	0.0	OFF	4832	0	4.15	387	57.8	19.9	19.9
6-7 AM	5201	0.0	OFF	5201	0	0.00	0	55.3	55.3	55.3
7-8 AM	5243	0.0	OFF	5243	0	0.00	0	55.0	55.0	55.0
8-9 AM	4727	0.0	OFF	4727	0	0.00	0	58.6	58.6	58.6
9-10 AM	4493	0.0	OFF	4493	0	0.00	0	60.2	60.2	60.2
10-11 AM	4714	0.0	OFF	4714	0	0.00	0	58.6	58.6	58.6
11AM-NOON	5189	0.0	OFF	5189	0	0.00	0	55.4	55.4	55.4
NOON-1PM	5662	0.0	OFF	5662	0	0.00	0	52.2	52.2	52.2
1-2 PM	5892	0.0	OFF	5892	0	0.00	0	50.6	50.6	50.6
2-3 PM	5856	0.0	OFF	5856	0	0.00	0	50.9	50.9	50.9
3-4 PM	5075	0.0	OFF	5075	0	0.00	0	56.2	56.2	56.2
4-5 PM	4686	0.0	OFF	4686	0	0.00	0	58.9	58.9	58.9
5-6 PM	4294	0.0	OFF	4294	0	0.00	0	61.5	61.5	61.5
6-7 PM	3538	0.0	OFF	3538	0	0.00	0	66.3	66.3	66.3
7-8 PM	2855	0.0	2999	2855	0	0.63	0	67.2	50.2	39.8
8-9 PM	2356	0.0	3000	2356	0	0.33	0	67.8	57.6	49.7
9-10 PM	2124	0.0	3000	2124	0	0.33	0	68.1	57.7	49.7
10-11 PM	1688	0.0	3000	1688	0	0.34	0	68.6	57.9	49.7
11PM-MID	1447	0.0	3000	1447	0	0.34	0	68.9	58.0	49.7

"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	0.0314
MAIN ROUTE WITH WORKS	0.0294
'DIVERSION'	0.0010

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$18,040
CONGESTED HOURS PER DAY*	1

\*Delays Exceeding User-Specified Maximum

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**MON-THUR NORTHBOUND DIRECTION**

