

<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**

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	432	0.0	3000	432	0	0.36	0	70.2	58.5	49.7
1-2 AM	369	0.0	3000	369	0	0.36	0	70.2	58.5	49.7
2-3 AM	570	0.0	3000	570	0	0.36	0	70.0	58.4	49.7
3-4 AM	800	0.0	3000	800	0	0.35	0	69.7	58.3	49.7
4-5 AM	1123	0.0	3000	1123	0	0.35	0	69.4	58.2	49.7
5-6 AM	1600	0.0	3000	1600	0	0.34	0	68.7	57.9	49.7
6-7 AM	2432	0.0	2999	2432	0	0.40	0	67.7	55.6	46.8
7-8 AM	3162	0.0	2999	3162	0	1.31	43	66.8	39.4	37.4
8-9 AM	3893	0.0	3000	3853	40	10.32+	582	64.3	12.9	37.3
9-10 AM	4124	0.0	OFF	4124	0	3.05	280	62.7	24.9	24.9
10-11 AM	4152	0.0	OFF	4152	0	0.00	0	62.5	62.5	62.5
11AM-NOON	4281	0.0	OFF	4281	0	0.00	0	61.6	61.6	61.6
NOON-1PM	4413	0.0	OFF	4413	0	0.00	0	60.7	60.7	60.7
1-2 PM	4158	0.0	OFF	4158	0	0.00	0	62.5	62.5	62.5
2-3 PM	3931	0.0	OFF	3931	0	0.00	0	64.0	64.0	64.0
3-4 PM	3643	0.0	OFF	3643	0	0.00	0	66.0	66.0	66.0
4-5 PM	3315	0.0	OFF	3315	0	0.00	0	66.6	66.6	66.6
5-6 PM	2708	0.0	OFF	2708	0	0.00	0	67.4	67.4	67.4
6-7 PM	2185	0.0	OFF	2185	0	0.00	0	68.0	68.0	68.0
7-8 PM	1604	0.0	3000	1604	0	0.34	0	68.7	57.9	49.7
8-9 PM	1079	0.0	3000	1079	0	0.35	0	69.4	58.2	49.7
9-10 PM	712	0.0	3000	712	0	0.36	0	69.9	58.4	49.7
10-11 PM	516	0.0	3000	516	0	0.36	0	70.1	58.4	49.7
11PM-MID	381	0.0	3000	381	0	0.36	0	70.2	58.5	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

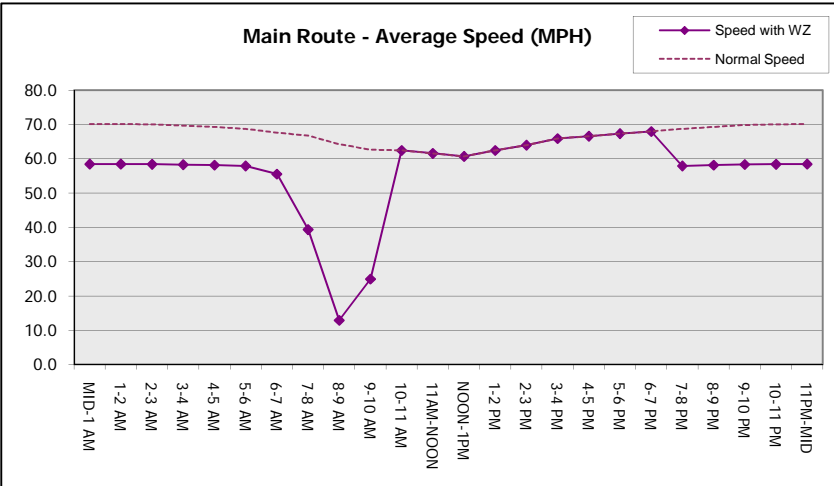
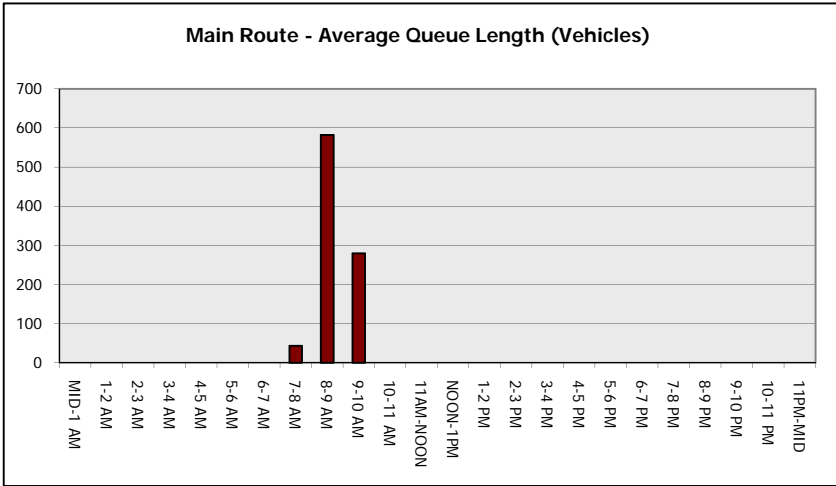
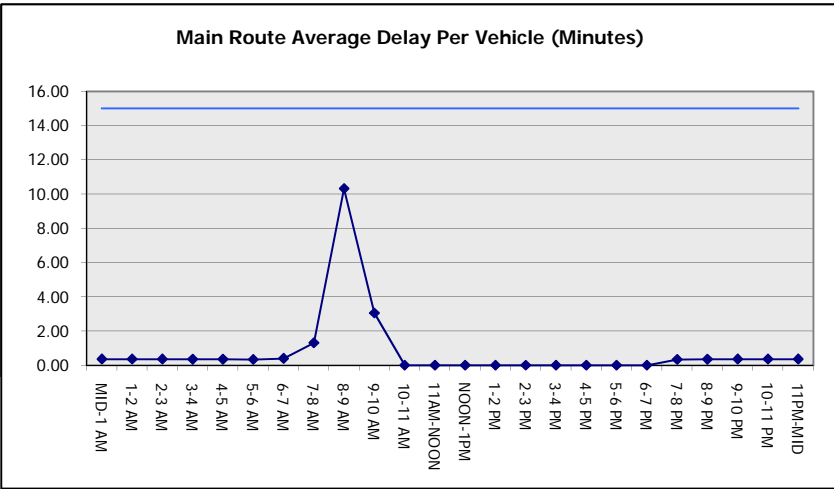
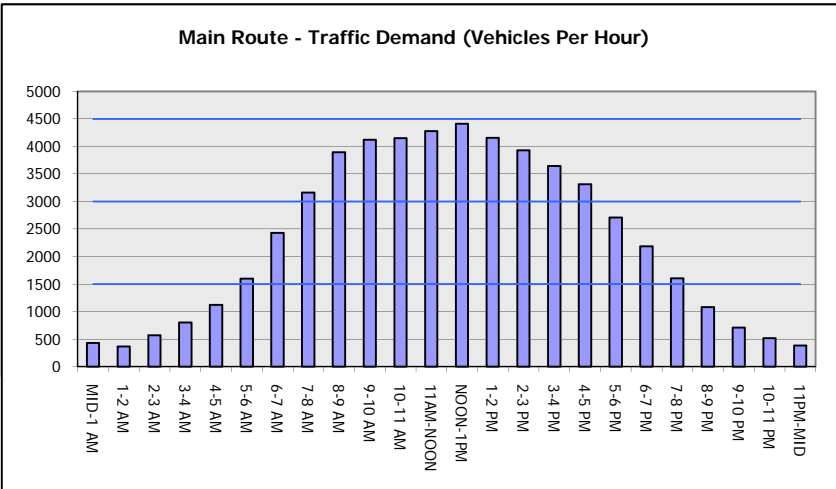
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0186
MAIN ROUTE WITH WORKS	0.0173
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$9,555
CONGESTED HOURS PER DAY*	1

\*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**  
**SUNDAY 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**

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	1411	0.0	3000	1411	0	0.34	0	69.0	58.1	49.7
1-2 AM	1280	0.0	3000	1280	0	0.35	0	69.1	58.1	49.7
2-3 AM	1384	0.0	3000	1384	0	0.34	0	69.0	58.1	49.7
3-4 AM	1478	0.0	3000	1478	0	0.34	0	68.9	58.0	49.7
4-5 AM	1718	0.0	3000	1718	0	0.34	0	68.6	57.9	49.7
5-6 AM	2078	0.0	3000	2078	0	0.33	0	68.1	57.8	49.7
6-7 AM	2677	0.0	2999	2677	0	0.51	0	67.4	52.8	43.1
7-8 AM	3196	0.0	2999	3196	0	1.70	65	66.8	35.1	37.3
8-9 AM	3707	0.0	3000	3707	0	9.51+	522	65.5	13.3	37.3
9-10 AM	4072	0.0	OFF	4072	0	2.33	211	63.0	29.1	29.1
10-11 AM	4219	0.0	OFF	4219	0	0.00	0	62.0	62.0	62.0
11AM-NOON	4439	0.0	OFF	4439	0	0.00	0	60.5	60.5	60.5
NOON-1PM	4755	0.0	OFF	4755	0	0.00	0	58.4	58.4	58.4
1-2 PM	4773	0.0	OFF	4773	0	0.00	0	58.2	58.2	58.2
2-3 PM	4440	0.0	OFF	4440	0	0.00	0	60.5	60.5	60.5
3-4 PM	3997	0.0	OFF	3997	0	0.00	0	63.5	63.5	63.5
4-5 PM	3658	0.0	OFF	3658	0	0.00	0	65.9	65.9	65.9
5-6 PM	3171	0.0	OFF	3171	0	0.00	0	66.8	66.8	66.8
6-7 PM	2721	0.0	OFF	2721	0	0.00	0	67.4	67.4	67.4
7-8 PM	2320	0.0	3000	2320	0	0.33	0	67.9	57.6	49.7
8-9 PM	1904	0.0	3000	1904	0	0.34	0	68.4	57.8	49.7
9-10 PM	1605	0.0	3000	1605	0	0.34	0	68.7	57.9	49.7
10-11 PM	1371	0.0	3000	1371	0	0.34	0	69.1	58.1	49.7
11PM-MID	1153	0.0	3000	1153	0	0.35	0	69.3	58.1	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	0.0226
MAIN ROUTE WITH WORKS	0.0208
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$9,000
CONGESTED HOURS PER DAY*	1

\*Delays Exceeding User-Specified Maximum

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

