

<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**

FRIDAY      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	584	0.0	3000	584	0	0.36	0	70.0	58.4	49.7	
1-2 AM	802	0.0	3000	802	0	0.35	0	69.7	58.3	49.7	
2-3 AM	2048	0.0	2999	2048	0	0.35	0	68.2	57.4	49.2	
3-4 AM	3824	0.0	2999	3824	0	5.50	343	64.7	18.6	37.3	
4-5 AM	4246	0.0	2999	3093	1153	17.01+	911	61.9	10.1	37.3	
5-6 AM	4328	0.0	OFF	4328	0	2.75	251	61.3	26.2	26.2	
6-7 AM	4724	0.0	OFF	4724	0	0.00	0	58.6	58.6	58.6	
7-8 AM	4945	0.0	OFF	4945	0	0.00	0	57.1	57.1	57.1	
8-9 AM	4743	0.0	OFF	4743	0	0.00	0	58.4	58.4	58.4	
9-10 AM	4584	0.0	OFF	4584	0	0.00	0	59.6	59.6	59.6	
10-11 AM	4806	0.0	OFF	4806	0	0.00	0	58.0	58.0	58.0	
11AM-NOON	5320	0.0	OFF	5320	0	0.00	0	54.5	54.5	54.5	
NOON-1PM	5083	0.0	OFF	5083	0	0.00	0	56.1	56.1	56.1	
1-2 PM	4729	0.0	OFF	4729	0	0.00	0	58.6	58.6	58.6	
2-3 PM	5192	0.0	OFF	5192	0	0.00	0	55.4	55.4	55.4	
3-4 PM	4784	0.0	OFF	4784	0	0.00	0	58.2	58.2	58.2	
4-5 PM	3835	0.0	OFF	3835	0	0.00	0	64.6	64.6	64.6	
5-6 PM	3281	0.0	OFF	3281	0	0.00	0	66.6	66.6	66.6	
6-7 PM	2777	0.0	OFF	2777	0	0.00	0	67.3	67.3	67.3	
7-8 PM	2332	0.0	3000	2332	0	0.33	0	67.8	57.6	49.7	
8-9 PM	1679	0.0	3000	1679	0	0.34	0	68.6	57.9	49.7	
9-10 PM	1238	0.0	3000	1238	0	0.35	0	69.2	58.1	49.7	
10-11 PM	1035	0.0	3000	1035	0	0.35	0	69.4	58.2	49.7	
11PM-MID	726	0.0	3000	726	0	0.35	0	69.8	58.4	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

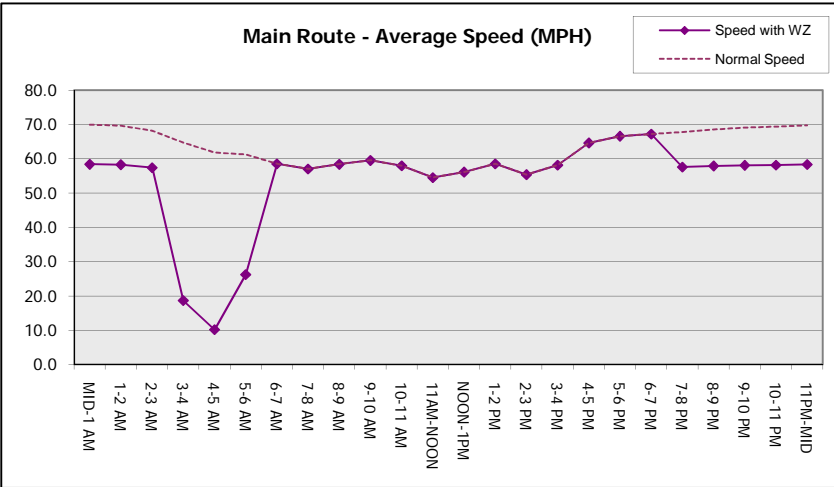
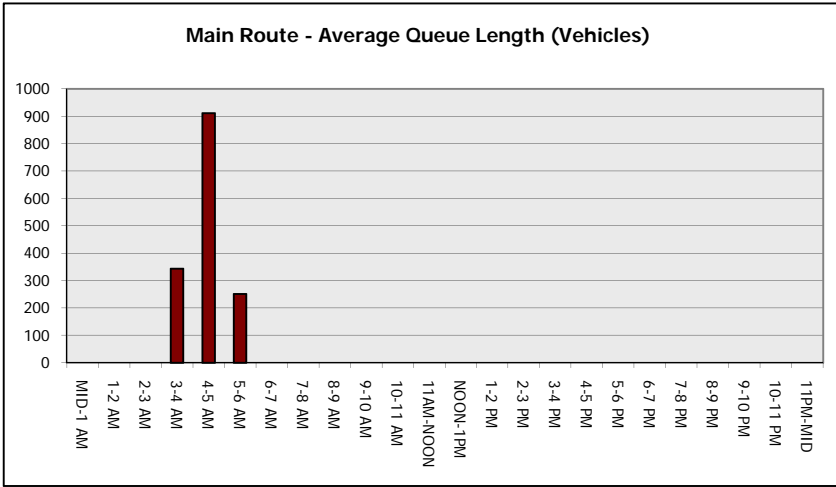
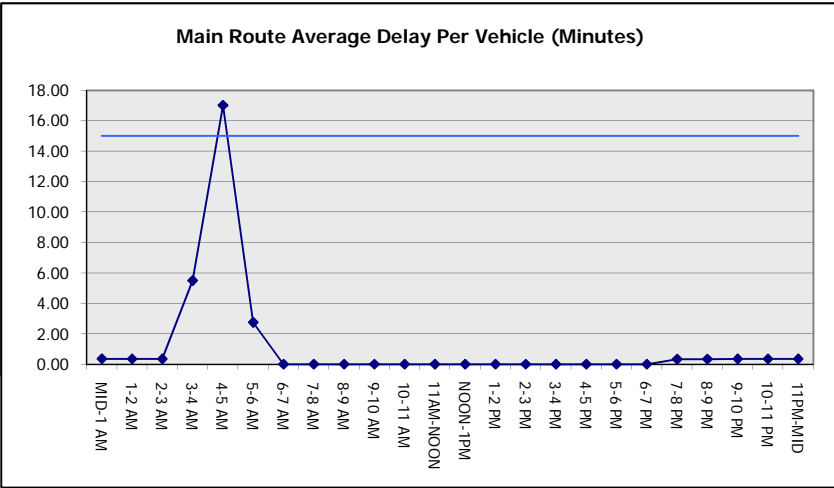
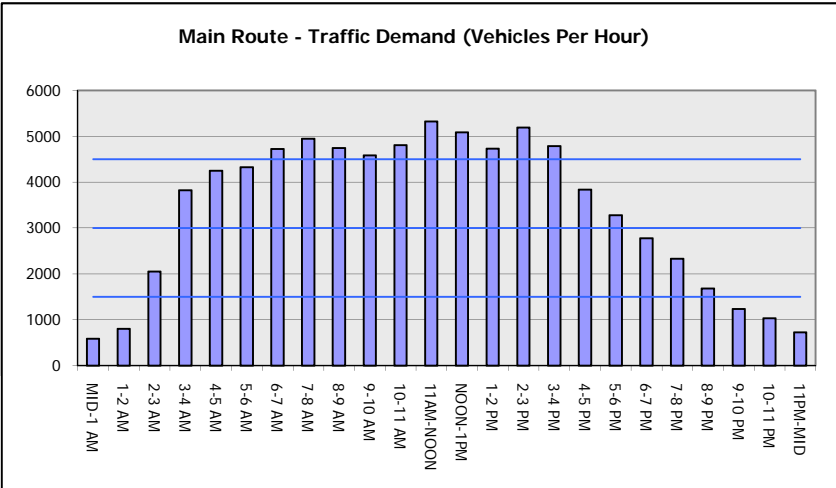
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0273
MAIN ROUTE WITH WORKS	0.0258
'DIVERSION'	0.0009
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$18,106
CONGESTED HOURS PER DAY*	1

\*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**  
**FRIDAY 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**

FRIDAY 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	1420	0.0	3000	1420	0	0.34	0	69.0	58.1	49.7
1-2 AM	1854	0.0	2999	1854	0	0.34	0	68.4	57.8	49.7
2-3 AM	3239	0.0	2999	3239	0	1.52	70	66.7	36.9	37.9
3-4 AM	4431	0.0	3000	3662	769	13.72+	759	60.6	11.2	37.3
4-5 AM	5002	0.0	2999	3000	2002	17.46+	953	56.7	10.0	37.3
5-6 AM	4828	0.0	OFF	4828	0	4.06	378	57.9	20.2	20.2
6-7 AM	5087	0.0	OFF	5087	0	0.00	0	56.1	56.1	56.1
7-8 AM	5291	0.0	OFF	5291	0	0.00	0	54.7	54.7	54.7
8-9 AM	4990	0.0	OFF	4990	0	0.00	0	56.8	56.8	56.8
9-10 AM	4979	0.0	OFF	4979	0	0.00	0	56.8	56.8	56.8
10-11 AM	5255	0.0	OFF	5255	0	0.00	0	55.0	55.0	55.0
11AM-NOON	5697	0.0	OFF	5697	0	0.00	0	51.9	51.9	51.9
NOON-1PM	5986	0.0	OFF	5986	0	0.00	0	49.9	49.9	49.9
1-2 PM	6430	0.0	OFF	6430	0	0.00	0	46.9	46.9	46.9
2-3 PM	5989	0.0	OFF	5989	0	0.00	0	49.9	49.9	49.9
3-4 PM	5193	0.0	OFF	5193	0	0.00	0	55.4	55.4	55.4
4-5 PM	4630	0.0	OFF	4630	0	0.00	0	59.2	59.2	59.2
5-6 PM	4345	0.0	OFF	4345	0	0.00	0	61.2	61.2	61.2
6-7 PM	4075	0.0	OFF	4075	0	0.00	0	63.0	63.0	63.0
7-8 PM	3421	0.0	2999	3421	0	4.84	253	66.5	19.3	37.3
8-9 PM	2707	0.0	2999	2707	0	6.09	310	67.4	16.6	38.3
9-10 PM	2247	0.0	3000	2247	0	0.49	12	67.9	53.8	49.4
10-11 PM	1935	0.0	3000	1935	0	0.34	0	68.3	57.8	49.7
11PM-MID	1714	0.0	3000	1714	0	0.34	0	68.6	57.9	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	0.0337
MAIN ROUTE WITH WORKS	0.0311
'DIVERSION'	0.0021

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$34,820
CONGESTED HOURS PER DAY*	2

\*Delays Exceeding User-Specified Maximum

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Analyzed for 2009  
Construction Season

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

