

<b>USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY)</b> <b>OFF-PEAK DAY 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	OFF	493	0	0.00	0	70.1	70.1	70.1
1-2 AM	540	0.0	OFF	540	0	0.00	0	70.0	70.0	70.0
2-3 AM	858	0.0	OFF	858	0	0.00	0	69.7	69.7	69.7
3-4 AM	1352	0.0	OFF	1352	0	0.00	0	69.1	69.1	69.1
4-5 AM	1857	0.0	OFF	1857	0	0.00	0	68.4	68.4	68.4
5-6 AM	2503	0.0	OFF	2503	0	0.00	0	67.6	67.6	67.6
6-7 AM	3100	0.0	OFF	3100	0	0.00	0	66.9	66.9	66.9
7-8 AM	3635	0.0	OFF	3635	0	0.00	0	66.0	66.0	66.0
8-9 AM	4240	0.0	2999	3962	278	9.35+	551	61.9	13.5	37.3
9-10 AM	4438	0.0	2999	2974	1464	17.35+	934	60.5	10.1	37.3
10-11 AM	4562	0.0	3000	3013	1549	17.48+	944	59.7	10.0	37.3
11AM-NOON	4681	0.0	2999	3000	1680	17.59+	953	58.9	10.0	37.3
NOON-1PM	4763	0.0	3000	3000	1763	17.56+	953	58.3	10.0	37.3
1-2 PM	4516	0.0	3000	2980	1536	17.47+	942	60.0	10.1	37.3
2-3 PM	4080	0.0	3000	2971	1109	16.90+	901	63.0	10.2	37.3
3-4 PM	3633	0.0	2999	2995	638	16.85+	890	66.0	10.2	37.3
4-5 PM	3064	0.0	3000	2970	94	16.75+	883	66.9	10.2	37.3
5-6 PM	2716	0.0	2999	2716	0	14.14+	742	67.4	11.0	37.3
6-7 PM	2489	0.0	OFF	2489	0	0.50	48	67.6	53.2	53.2
7-8 PM	1960	0.0	OFF	1960	0	0.00	0	68.3	68.3	68.3
8-9 PM	1444	0.0	OFF	1444	0	0.00	0	68.9	68.9	68.9
9-10 PM	1157	0.0	OFF	1157	0	0.00	0	69.3	69.3	69.3
10-11 PM	925	0.0	OFF	925	0	0.00	0	69.6	69.6	69.6
11PM-MID	673	0.0	OFF	673	0	0.00	0	69.9	69.9	69.9

"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

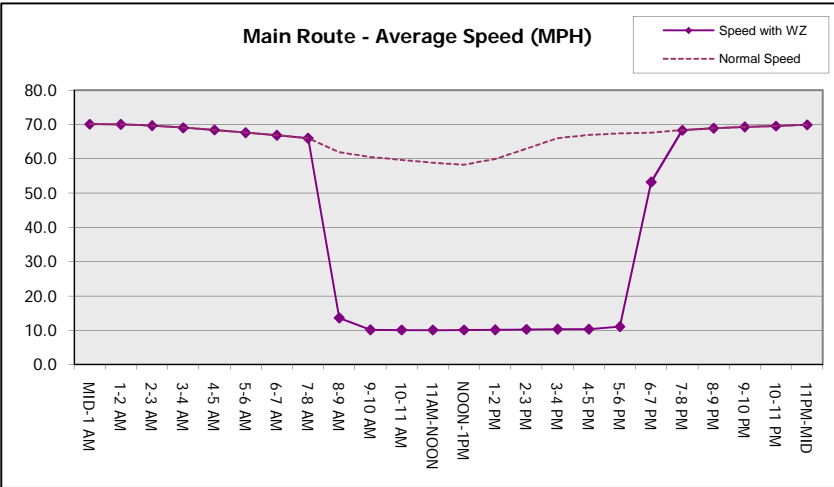
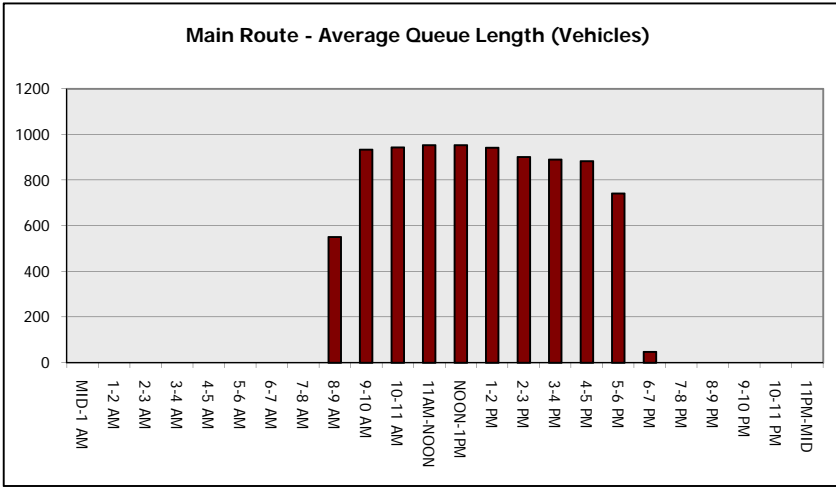
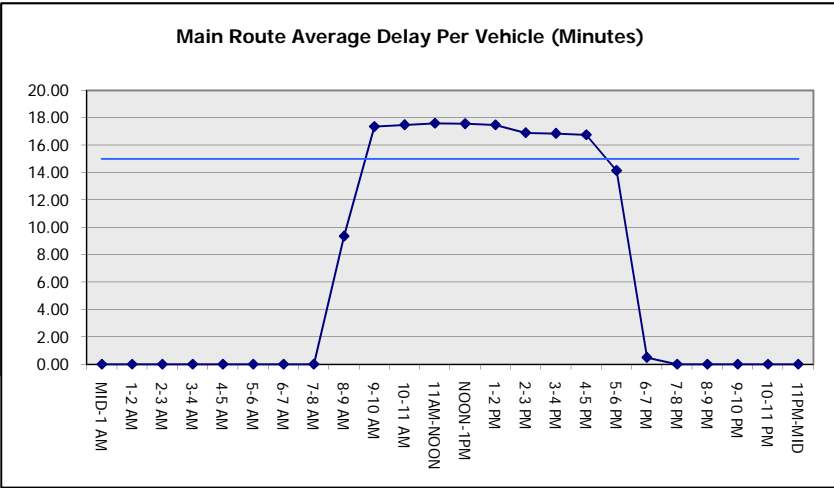
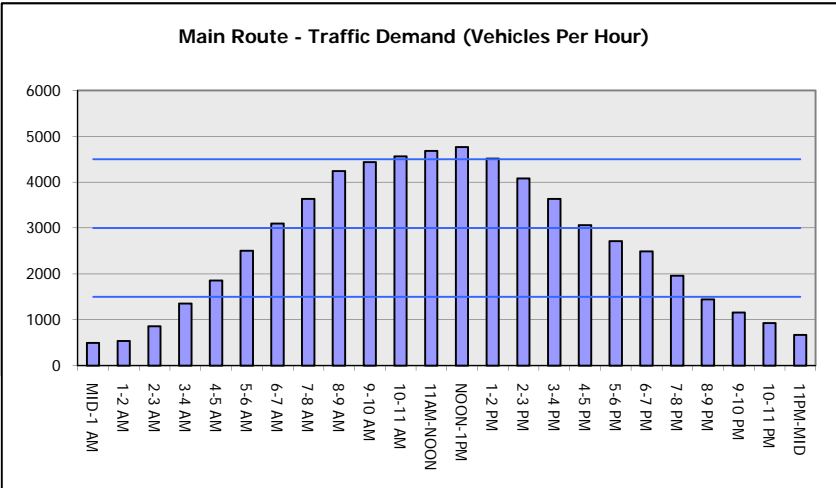
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0213
MAIN ROUTE WITH WORKS	0.0159
'DIVERSION'	0.0078
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$182,584
CONGESTED HOURS PER DAY*	10

\*Delays Exceeding User-Specified Maximum

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OFF-PEAK DAY CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**MAY**  
Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY SOUTHBOUND DIRECTION**



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**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	OFF	1446	0	0.00	0	68.9	68.9	68.9
1-2 AM	1482	0.0	OFF	1482	0	0.00	0	68.9	68.9	68.9
2-3 AM	1866	0.0	OFF	1866	0	0.00	0	68.4	68.4	68.4
3-4 AM	2169	0.0	OFF	2169	0	0.00	0	68.1	68.1	68.1
4-5 AM	2711	0.0	OFF	2711	0	0.00	0	67.4	67.4	67.4
5-6 AM	2990	0.0	OFF	2990	0	0.00	0	67.0	67.0	67.0
6-7 AM	3598	0.0	OFF	3598	0	0.00	0	66.3	66.3	66.3
7-8 AM	4085	0.0	OFF	4085	0	0.00	0	63.0	63.0	63.0
8-9 AM	4369	0.0	2999	3926	442	10.36+	607	61.0	12.9	37.3
9-10 AM	4548	0.0	3000	3021	1527	17.44+	941	59.8	10.1	37.3
10-11 AM	4592	0.0	3000	3005	1587	17.54+	948	59.5	10.0	37.3
11AM-NOON	4748	0.0	3000	3000	1747	17.57+	953	58.4	10.0	37.3
NOON-1PM	4839	0.0	3000	3000	1839	17.53+	953	57.8	10.0	37.3
1-2 PM	4686	0.0	3000	3000	1686	17.59+	953	58.9	10.0	37.3
2-3 PM	4466	0.0	3000	2973	1493	17.40+	937	60.4	10.1	37.3
3-4 PM	4054	0.0	3000	2974	1079	16.88+	900	63.2	10.2	37.3
4-5 PM	3550	0.0	3000	2996	555	16.85+	890	66.3	10.2	37.3
5-6 PM	3559	0.0	2999	2998	561	16.85+	890	66.3	10.2	37.3
6-7 PM	3523	0.0	OFF	3523	0	1.79	160	66.4	34.2	34.2
7-8 PM	3105	0.0	OFF	3105	0	0.00	0	66.9	66.9	66.9
8-9 PM	2440	0.0	OFF	2440	0	0.00	0	67.7	67.7	67.7
9-10 PM	2130	0.0	OFF	2130	0	0.00	0	68.1	68.1	68.1
10-11 PM	1871	0.0	OFF	1871	0	0.00	0	68.4	68.4	68.4
11PM-MID	1675	0.0	OFF	1675	0	0.00	0	68.6	68.6	68.6

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

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

MAIN ROUTE WITHOUT WORKS	0.0262
MAIN ROUTE WITH WORKS	0.0200
'DIVERSION'	0.0097

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$200,676
CONGESTED HOURS PER DAY*	10

\*Delays Exceeding User-Specified Maximum

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**SATURDAY NORTHBOUND DIRECTION**

