

USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	881	0.0	3000	881	0	0.35	0	69.6	58.2	49.7
1-2 AM	511	0.0	3000	511	0	0.36	0	70.1	58.4	49.7
2-3 AM	460	0.0	3000	460	0	0.36	0	70.2	58.4	49.7
3-4 AM	378	0.0	3000	378	0	0.36	0	70.2	58.5	49.7
4-5 AM	469	0.0	3000	469	0	0.36	0	70.2	58.4	49.7
5-6 AM	937	0.0	3000	937	0	0.35	0	69.6	58.2	49.7
6-7 AM	1626	0.0	3000	1626	0	0.34	0	68.7	57.9	49.7
7-8 AM	2210	0.0	3000	2210	0	0.33	0	68.0	57.7	49.7
8-9 AM	2707	0.0	OFF	2707	0	0.00	0	67.4	67.4	67.4
9-10 AM	3411	0.0	OFF	3411	0	0.00	0	66.5	66.5	66.5
10-11 AM	4104	0.0	OFF	4104	0	0.00	0	62.8	62.8	62.8
11AM-NOON	4571	0.0	OFF	4571	0	0.00	0	59.6	59.6	59.6
NOON-1PM	4857	0.0	OFF	4857	0	0.00	0	57.7	57.7	57.7
1-2 PM	4498	0.0	OFF	4498	0	0.00	0	60.1	60.1	60.1
2-3 PM	4535	0.0	OFF	4535	0	0.00	0	59.9	59.9	59.9
3-4 PM	4537	0.0	OFF	4537	0	0.00	0	59.9	59.9	59.9
4-5 PM	4318	0.0	OFF	4318	0	0.00	0	61.4	61.4	61.4
5-6 PM	3958	0.0	OFF	3958	0	0.00	0	63.8	63.8	63.8
6-7 PM	3317	0.0	2999	3317	0	3.95	196	66.6	21.7	37.3
7-8 PM	2754	0.0	2999	2754	0	4.50	223	67.3	19.9	38.3
8-9 PM	2385	0.0	3000	2385	0	0.42	4	67.8	55.1	48.4
9-10 PM	2086	0.0	3000	2086	0	0.33	0	68.1	57.8	49.7
10-11 PM	1875	0.0	3000	1875	0	0.34	0	68.4	57.8	49.7
11PM-MID	1476	0.0	3000	1476	0	0.34	0	68.9	58.0	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

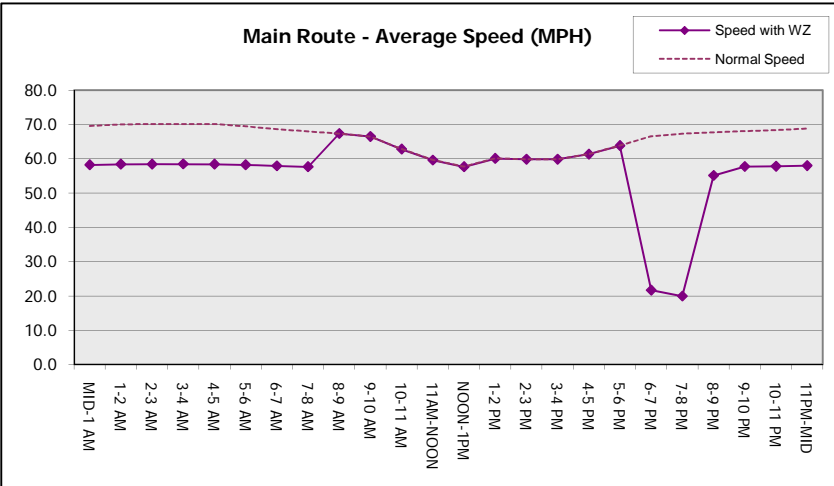
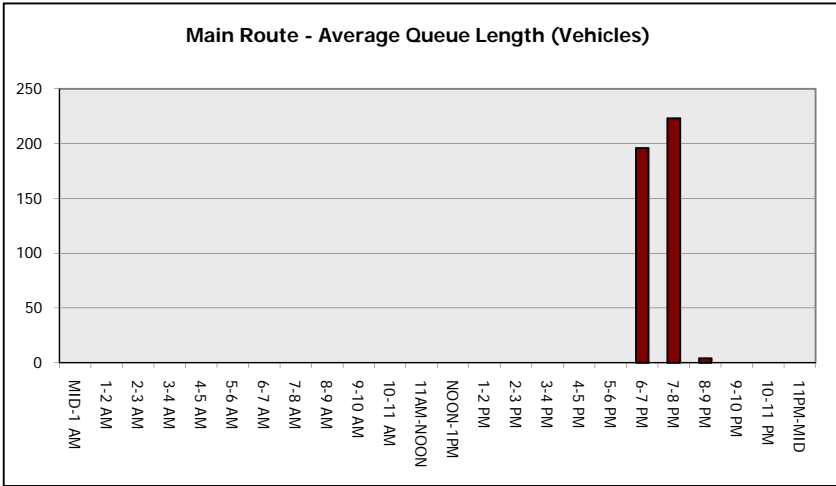
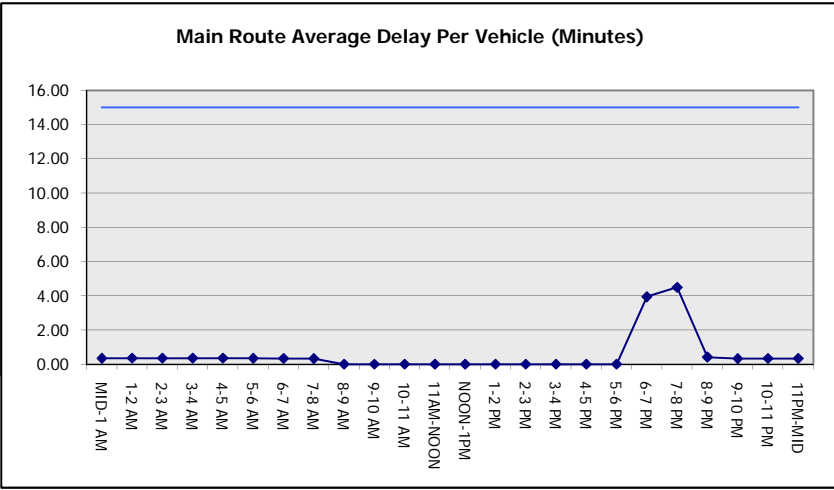
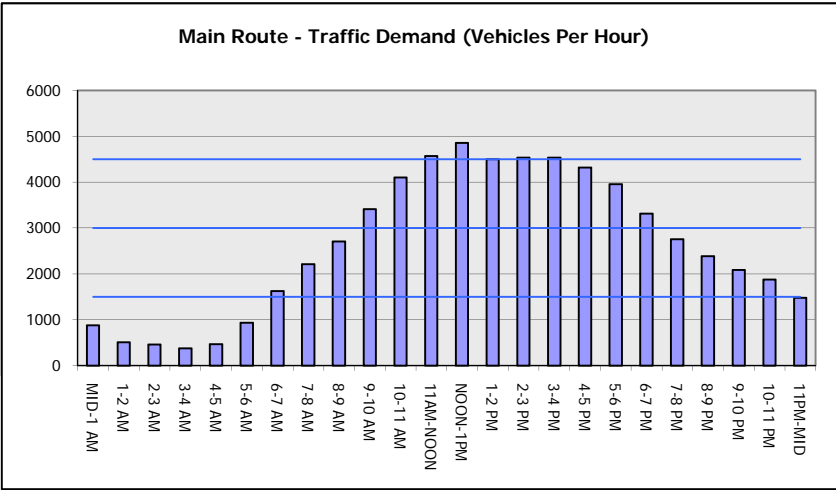
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0210
MAIN ROUTE WITH WORKS	0.0196
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$8,379
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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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	1391	0.0	3000	1391	0	0.34	0	69.0	58.1	49.7
1-2 AM	926	0.0	3000	926	0	0.35	0	69.6	58.2	49.7
2-3 AM	845	0.0	3000	845	0	0.35	0	69.7	58.3	49.7
3-4 AM	641	0.0	3000	641	0	0.36	0	69.9	58.4	49.7
4-5 AM	856	0.0	3000	856	0	0.35	0	69.7	58.3	49.7
5-6 AM	1294	0.0	3000	1294	0	0.35	0	69.1	58.1	49.7
6-7 AM	1948	0.0	3000	1948	0	0.34	0	68.3	57.8	49.7
7-8 AM	2580	0.0	2999	2580	0	0.45	0	67.5	54.4	45.1
8-9 AM	3050	0.0	OFF	3050	0	0.00	0	66.9	66.9	66.9
9-10 AM	3439	0.0	OFF	3439	0	0.00	0	66.4	66.4	66.4
10-11 AM	3806	0.0	OFF	3806	0	0.00	0	64.8	64.8	64.8
11AM-NOON	4266	0.0	OFF	4266	0	0.00	0	61.7	61.7	61.7
NOON-1PM	4517	0.0	OFF	4517	0	0.00	0	60.0	60.0	60.0
1-2 PM	4468	0.0	OFF	4468	0	0.00	0	60.4	60.4	60.4
2-3 PM	4534	0.0	OFF	4534	0	0.00	0	59.9	59.9	59.9
3-4 PM	4516	0.0	OFF	4516	0	0.00	0	60.0	60.0	60.0
4-5 PM	4113	0.0	OFF	4113	0	0.00	0	62.8	62.8	62.8
5-6 PM	3837	0.0	OFF	3837	0	0.00	0	64.6	64.6	64.6
6-7 PM	3242	0.0	2999	3242	0	3.27	153	66.7	24.4	37.3
7-8 PM	2808	0.0	2999	2808	0	3.43	159	67.3	23.7	37.9
8-9 PM	2806	0.0	3000	2806	0	0.71	6	67.3	48.9	40.2
9-10 PM	2910	0.0	3000	2910	0	0.67	0	67.1	49.4	38.7
10-11 PM	2612	0.0	3000	2612	0	0.47	0	67.5	53.8	44.3
11PM-MID	2095	0.0	3000	2095	0	0.33	0	68.1	57.8	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	0.0226
MAIN ROUTE WITH WORKS	0.0208
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$8,134
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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