

USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	619	0.0	2000	619	0	0.55	0	70.0	53.7	43.0	
1-2 AM	423	0.0	2000	423	0	0.52	0	70.2	54.3	43.8	
2-3 AM	388	0.0	2000	388	0	0.52	0	70.2	54.4	44.0	
3-4 AM	471	0.0	2000	471	0	0.53	0	70.2	54.2	43.6	
4-5 AM	853	0.0	2000	853	0	0.57	0	69.7	53.0	42.2	
5-6 AM	2452	0.0	OFF	2452	0	0.00	0	67.7	67.7	67.7	
6-7 AM	5092	0.0	OFF	5092	0	0.00	0	56.1	56.1	56.1	
7-8 AM	6055	0.0	OFF	6055	0	0.00	0	49.5	49.5	49.5	
8-9 AM	5431	0.0	OFF	5431	0	0.00	0	53.8	53.8	53.8	
9-10 AM	4648	0.0	OFF	4648	0	0.00	0	59.1	59.1	59.1	
10-11 AM	4368	0.0	OFF	4368	0	0.00	0	61.0	61.0	61.0	
11AM-NOON	4688	0.0	OFF	4688	0	0.00	0	58.8	58.8	58.8	
NOON-1PM	4570	0.0	OFF	4570	0	0.00	0	59.6	59.6	59.6	
1-2 PM	4644	0.0	OFF	4644	0	0.00	0	59.1	59.1	59.1	
2-3 PM	5178	0.0	OFF	5178	0	0.00	0	55.5	55.5	55.5	
3-4 PM	4504	0.0	OFF	4504	0	0.00	0	60.1	60.1	60.1	
4-5 PM	4189	0.0	OFF	4189	0	0.00	0	62.2	62.2	62.2	
5-6 PM	4021	0.0	OFF	4021	0	0.00	0	63.4	63.4	63.4	
6-7 PM	4255	0.0	OFF	4255	0	0.00	0	61.8	61.8	61.8	
7-8 PM	3073	0.0	1999	2625	448	13.28+	443	66.9	9.6	27.9	
8-9 PM	2558	0.0	1999	1964	594	17.04+	559	67.6	8.4	27.9	
9-10 PM	2120	0.0	1999	1952	168	16.96+	556	68.1	8.4	27.9	
10-11 PM	1652	0.0	1999	1652	0	12.01+	393	68.7	10.1	27.9	
11PM-MID	1281	0.0	2000	1281	0	1.26	31	69.1	40.8	35.3	

"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	0.0259
MAIN ROUTE WITH WORKS	0.0247
'DIVERSION'	0.0009
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$32,897
CONGESTED HOURS PER DAY*	4

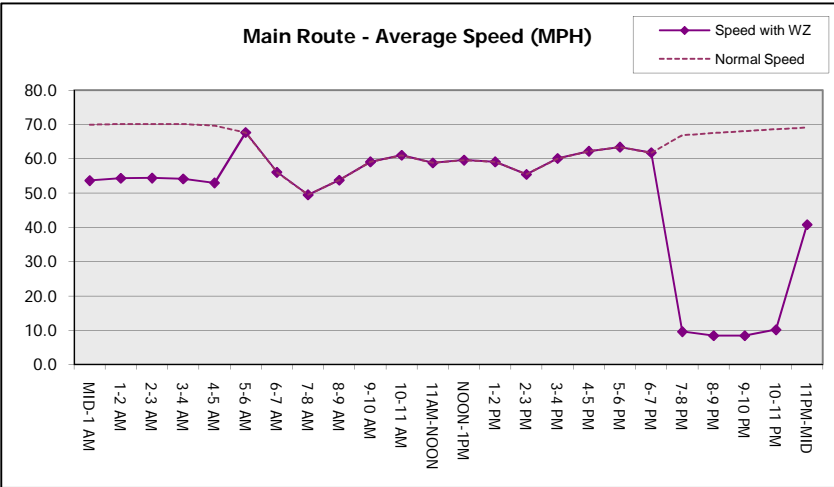
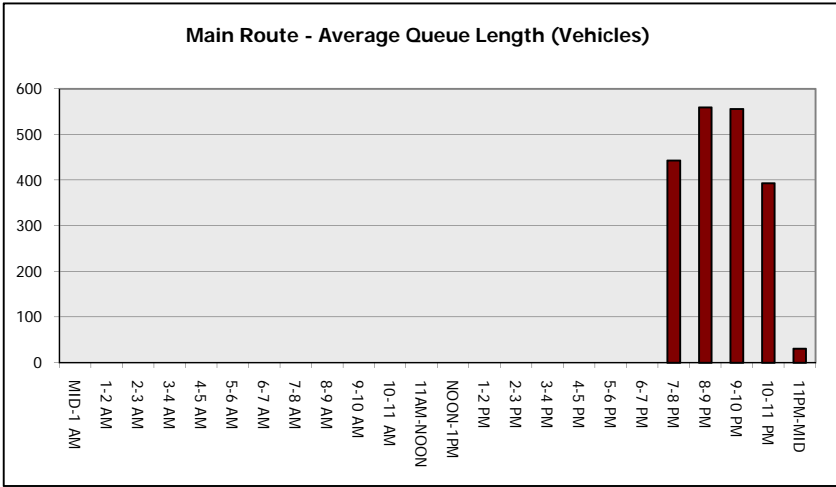
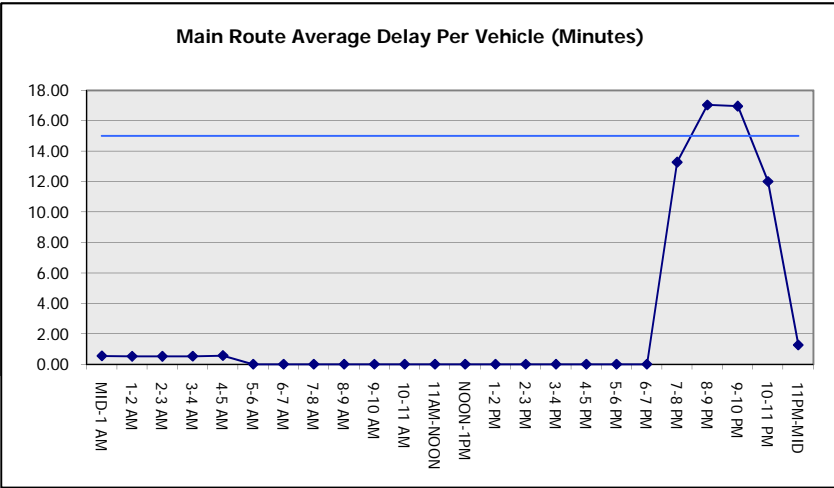
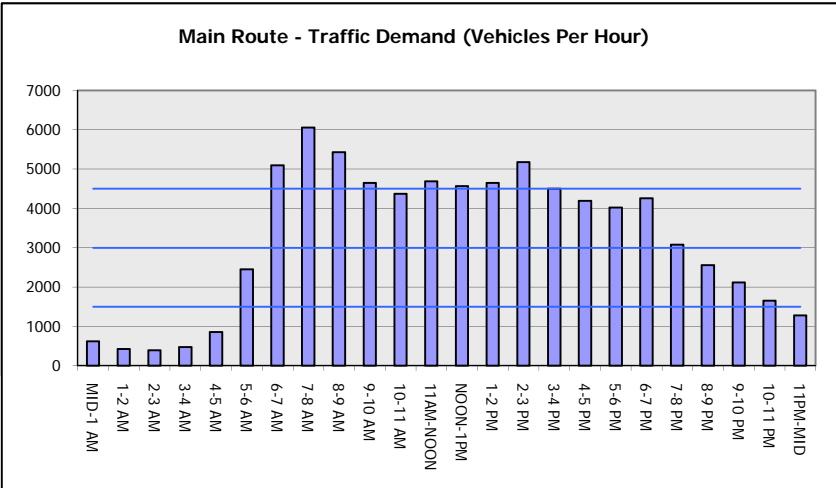
*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR SOUTHBOUND DIRECTION



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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	966	0.0	2000	966	0	0.90	22	69.6	46.5	40.9
1-2 AM	667	0.0	2000	667	0	0.55	0	69.9	53.5	42.8
2-3 AM	644	0.0	2000	644	0	0.55	0	69.9	53.6	43.0
3-4 AM	697	0.0	2000	697	0	0.55	0	69.9	53.5	42.8
4-5 AM	1290	0.0	1999	1290	0	0.87	0	69.1	46.8	35.2
5-6 AM	3256	0.0	OFF	3256	0	0.00	0	66.7	66.7	66.7
6-7 AM	5373	0.0	OFF	5373	0	0.00	0	54.2	54.2	54.2
7-8 AM	6326	0.0	OFF	6326	0	0.00	0	47.6	47.6	47.6
8-9 AM	5307	0.0	OFF	5307	0	0.00	0	54.6	54.6	54.6
9-10 AM	4215	0.0	OFF	4215	0	0.00	0	62.0	62.0	62.0
10-11 AM	4128	0.0	OFF	4128	0	0.00	0	62.7	62.7	62.7
11AM-NOON	4440	0.0	OFF	4440	0	0.00	0	60.5	60.5	60.5
NOON-1PM	4468	0.0	OFF	4468	0	0.00	0	60.4	60.4	60.4
1-2 PM	4996	0.0	OFF	4996	0	0.00	0	56.7	56.7	56.7
2-3 PM	5629	0.0	OFF	5629	0	0.00	0	52.4	52.4	52.4
3-4 PM	5583	0.0	OFF	5583	0	0.00	0	52.7	52.7	52.7
4-5 PM	6398	0.0	OFF	6398	0	0.00	0	47.1	47.1	47.1
5-6 PM	6274	0.0	OFF	6274	0	0.00	0	48.0	48.0	48.0
6-7 PM	4596	0.0	OFF	4596	0	0.00	0	59.4	59.4	59.4
7-8 PM	3390	0.0	1999	2489	902	14.35+	473	66.5	9.1	27.9
8-9 PM	3006	0.0	1999	2041	965	17.23+	567	67.0	8.3	27.9
9-10 PM	3071	0.0	2000	2019	1052	17.17+	565	66.9	8.3	27.9
10-11 PM	2801	0.0	2000	2002	799	17.11+	562	67.3	8.4	27.9
11PM-MID	1653	0.0	1999	1653	0	13.19+	435	68.7	9.6	27.9

"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	0.0298
MAIN ROUTE WITH WORKS	0.0276
'DIVERSION'	0.0029

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$51,878
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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