

USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY) OFF-PEAK DAY 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	OFF	619	0	0.00	0	70.0	70.0	70.0
1-2 AM	423	0.0	OFF	423	0	0.00	0	70.2	70.2	70.2
2-3 AM	388	0.0	OFF	388	0	0.00	0	70.2	70.2	70.2
3-4 AM	471	0.0	OFF	471	0	0.00	0	70.2	70.2	70.2
4-5 AM	853	0.0	OFF	853	0	0.00	0	69.7	69.7	69.7
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	1999	2121	2246	17.30+	591	61.0	8.3	34.5
11AM-NOON	4688	0.0	1999	2373	2314	15.63+	540	58.8	8.8	28.6
NOON-1PM	4570	0.0	1999	2000	2569	17.30+	580	59.6	8.3	27.9
1-2 PM	4644	0.0	2000	2000	2644	17.27+	580	59.1	8.3	27.9
2-3 PM	5178	0.0	2000	2000	3178	17.09+	580	55.5	8.3	27.9
3-4 PM	4504	0.0	OFF	4504	0	0.94	81	60.1	41.4	41.4
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	OFF	3073	0	0.00	0	66.9	66.9	66.9
8-9 PM	2558	0.0	OFF	2558	0	0.00	0	67.6	67.6	67.6
9-10 PM	2120	0.0	OFF	2120	0	0.00	0	68.1	68.1	68.1
10-11 PM	1652	0.0	OFF	1652	0	0.00	0	68.7	68.7	68.7
11PM-MID	1281	0.0	OFF	1281	0	0.00	0	69.1	69.1	69.1

"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

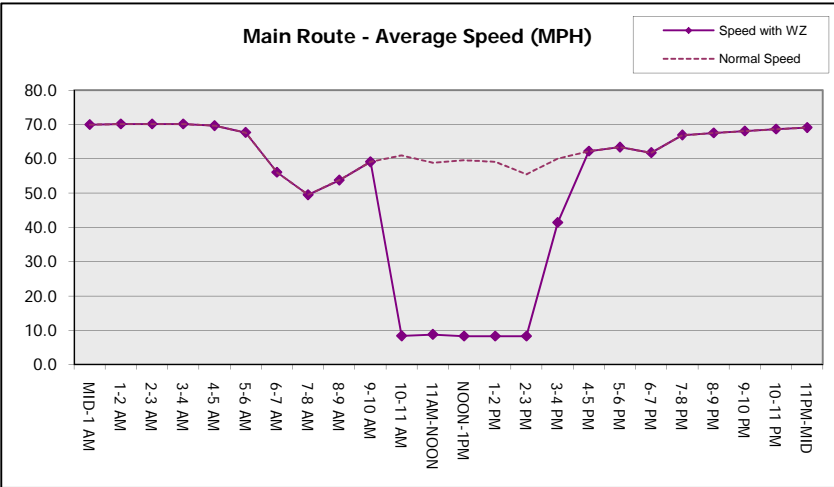
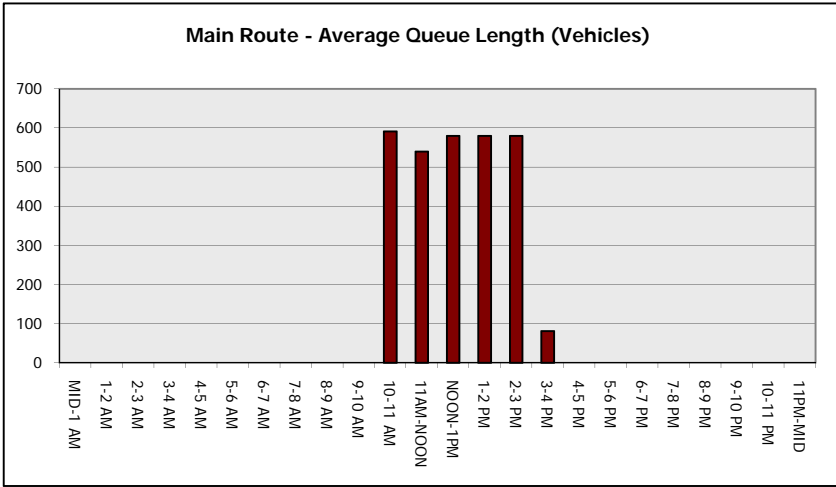
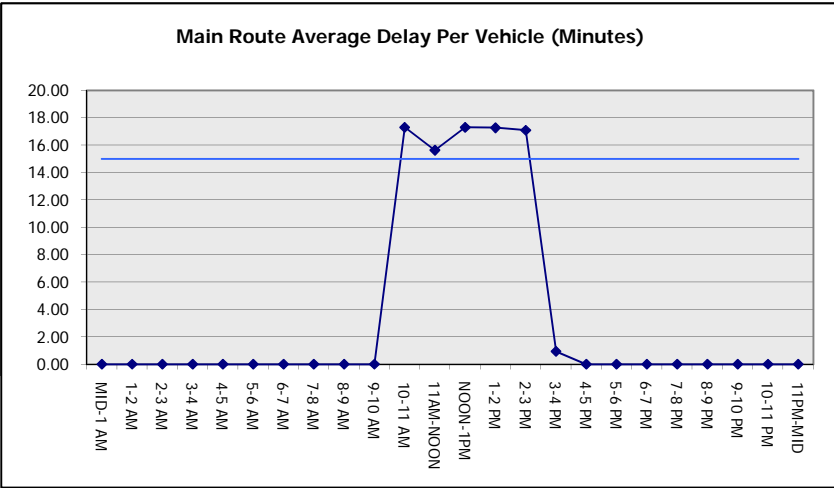
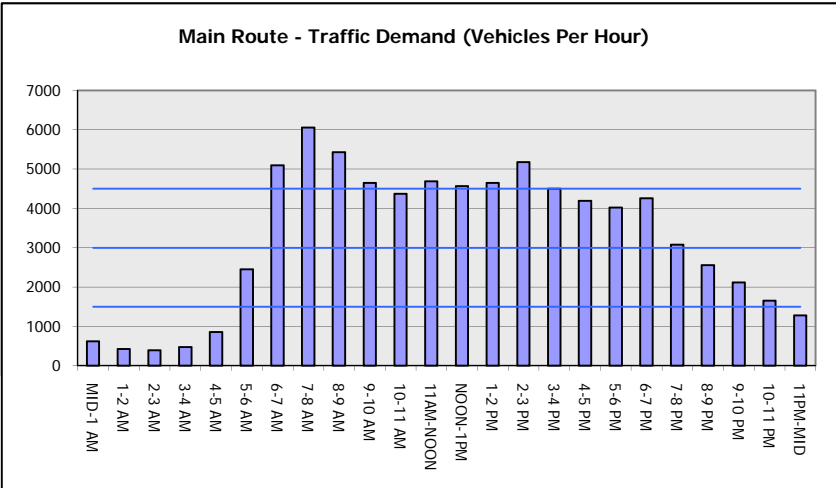
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0259
MAIN ROUTE WITH WORKS	0.0209
'DIVERSION'	0.0100
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$80,264
CONGESTED HOURS PER DAY*	5

*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	OFF	966	0	0.00	0	69.6	69.6	69.6
1-2 AM	667	0.0	OFF	667	0	0.00	0	69.9	69.9	69.9
2-3 AM	644	0.0	OFF	644	0	0.00	0	69.9	69.9	69.9
3-4 AM	697	0.0	OFF	697	0	0.00	0	69.9	69.9	69.9
4-5 AM	1290	0.0	OFF	1290	0	0.00	0	69.1	69.1	69.1
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	1999	2111	2017	16.33+	552	62.7	8.6	33.7
11AM-NOON	4440	0.0	1999	2314	2126	15.50+	536	60.5	8.9	29.1
NOON-1PM	4468	0.0	1999	2043	2425	17.20+	575	60.4	8.3	27.9
1-2 PM	4996	0.0	1999	2000	2996	17.15+	580	56.7	8.3	27.9
2-3 PM	5629	0.0	1999	2000	3629	16.91+	580	52.4	8.3	27.9
3-4 PM	5583	0.0	OFF	5583	0	2.73	259	52.7	24.6	24.6
4-5 PM	6398	0.0	OFF	6398	0	2.35	249	47.1	25.1	25.1
5-6 PM	6274	0.0	OFF	6274	0	5.76	585	48.0	15.0	15.0
6-7 PM	4596	0.0	OFF	4596	0	2.05	185	59.4	30.2	30.2
7-8 PM	3390	0.0	OFF	3390	0	0.00	0	66.5	66.5	66.5
8-9 PM	3006	0.0	OFF	3006	0	0.00	0	67.0	67.0	67.0
9-10 PM	3071	0.0	OFF	3071	0	0.00	0	66.9	66.9	66.9
10-11 PM	2801	0.0	OFF	2801	0	0.00	0	67.3	67.3	67.3
11PM-MID	1653	0.0	OFF	1653	0	0.00	0	68.7	68.7	68.7

"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	0.0298
MAIN ROUTE WITH WORKS	0.0247
'DIVERSION'	0.0102

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$94,072
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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