

USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	533	0.0	3000	533	0	0.36	0	70.0	58.4	49.7	
1-2 AM	725	0.0	3000	725	0	0.35	0	69.8	58.4	49.7	
2-3 AM	1769	0.0	3000	1769	0	0.34	0	68.6	57.9	49.7	
3-4 AM	3182	0.0	2999	3182	0	1.38	51	66.8	38.5	37.6	
4-5 AM	3611	0.0	3000	3611	0	8.84	477	66.2	13.7	37.3	
5-6 AM	4276	0.0	2999	3117	1159	17.07+	915	61.7	10.1	37.3	
6-7 AM	5061	0.0	2999	3000	2062	17.43+	953	56.3	10.0	37.3	
7-8 AM	5066	0.0	3000	3000	2066	17.43+	953	56.3	10.0	37.3	
8-9 AM	4585	0.0	3000	3002	1584	17.46+	943	59.6	10.0	37.3	
9-10 AM	4165	0.0	3000	2963	1202	16.94+	905	62.4	10.2	37.3	
10-11 AM	4307	0.0	2999	3029	1278	17.03+	913	61.4	10.1	37.3	
11AM-NOON	4919	0.0	2999	3000	1919	17.49+	953	57.3	10.0	37.3	
NOON-1PM	4797	0.0	3000	3007	1790	17.53+	952	58.1	10.0	37.3	
1-2 PM	4519	0.0	3000	3006	1513	17.42+	939	60.0	10.1	37.3	
2-3 PM	4784	0.0	2999	3000	1784	17.55+	953	58.2	10.0	37.3	
3-4 PM	4474	0.0	3000	2978	1497	17.40+	938	60.3	10.1	37.3	
4-5 PM	3619	0.0	3000	2987	633	16.85+	890	66.1	10.2	37.3	
5-6 PM	3233	0.0	2999	2989	245	16.81+	886	66.7	10.2	37.3	
6-7 PM	2613	0.0	2999	2613	0	14.02+	738	67.5	11.1	37.3	
7-8 PM	2008	0.0	2999	2008	0	1.61	149	68.2	36.9	47.6	
8-9 PM	1510	0.0	3000	1510	0	0.34	0	68.9	58.0	49.7	
9-10 PM	1108	0.0	3000	1108	0	0.35	0	69.4	58.2	49.7	
10-11 PM	878	0.0	3000	878	0	0.35	0	69.6	58.2	49.7	
11PM-MID	616	0.0	3000	616	0	0.36	0	70.0	58.4	49.7	

+ 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

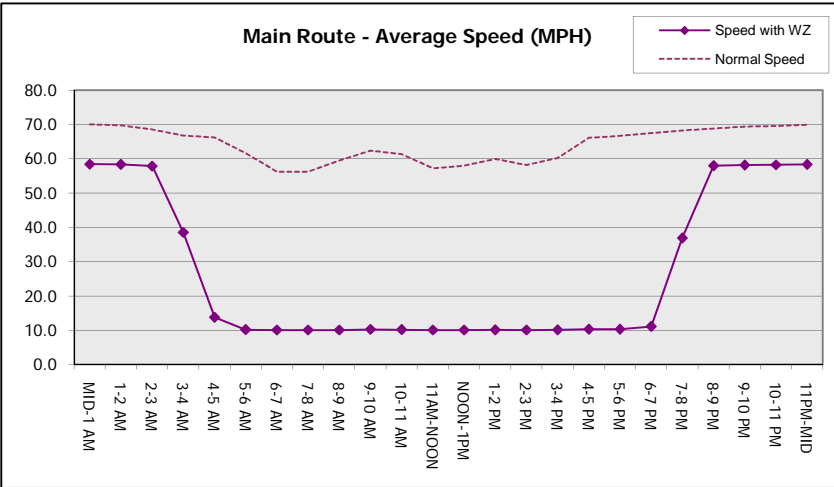
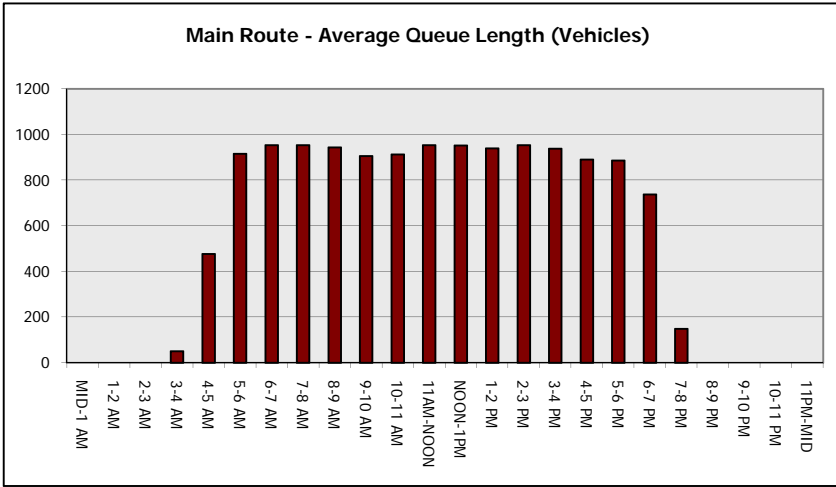
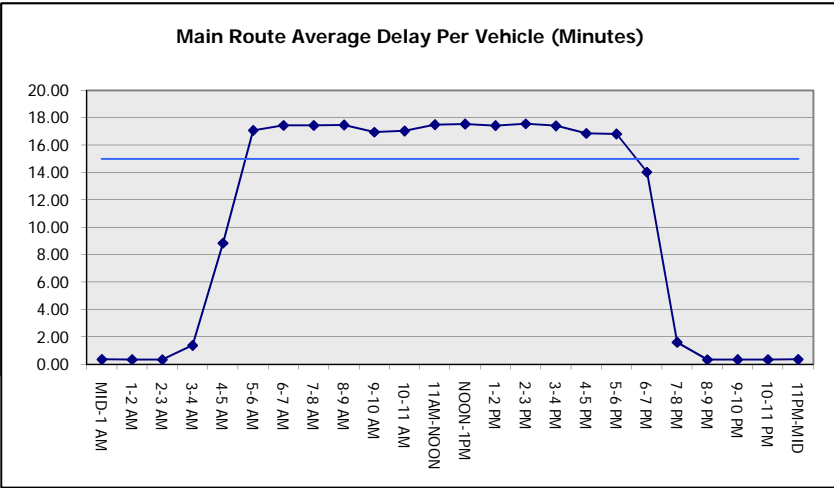
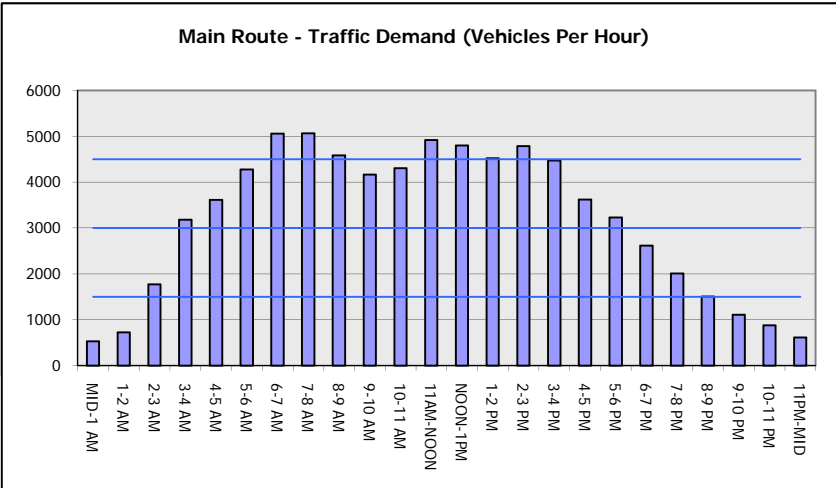
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0255
MAIN ROUTE WITH WORKS	0.0155
'DIVERSION'	0.0145
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$232,490
CONGESTED HOURS PER DAY*	14

*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	1312	0.0	3000	1312	0	0.35	0	69.1	58.1	49.7
1-2 AM	1657	0.0	3000	1657	0	0.34	0	68.7	57.9	49.7
2-3 AM	2750	0.0	2999	2750	0	0.58	2	67.3	51.4	42.2
3-4 AM	3791	0.0	3000	3791	0	5.75	349	65.0	18.0	37.3
4-5 AM	4485	0.0	2999	3151	1334	17.29+	932	60.2	10.1	37.3
5-6 AM	4832	0.0	3000	3000	1832	17.53+	953	57.8	10.0	37.3
6-7 AM	5201	0.0	3000	3000	2200	17.36+	953	55.3	10.0	37.3
7-8 AM	5243	0.0	3000	3000	2243	17.34+	953	55.0	10.0	37.3
8-9 AM	4727	0.0	3000	3001	1726	17.57+	953	58.6	10.0	37.3
9-10 AM	4493	0.0	3000	2985	1508	17.42+	939	60.2	10.1	37.3
10-11 AM	4714	0.0	2999	3014	1700	17.54+	951	58.6	10.0	37.3
11AM-NOON	5189	0.0	3000	3000	2189	17.37+	953	55.4	10.0	37.3
NOON-1PM	5662	0.0	3000	3000	2662	17.13+	953	52.2	10.0	37.3
1-2 PM	5892	0.0	3000	3000	2892	17.01+	953	50.6	10.0	37.3
2-3 PM	5856	0.0	3000	3000	2856	17.03+	953	50.9	10.0	37.3
3-4 PM	5075	0.0	3000	3000	2075	17.42+	953	56.2	10.0	37.3
4-5 PM	4686	0.0	3000	2997	1689	17.56+	951	58.9	10.0	37.3
5-6 PM	4294	0.0	3000	2951	1343	17.16+	921	61.5	10.1	37.3
6-7 PM	3538	0.0	3000	2995	543	16.85+	889	66.3	10.2	37.3
7-8 PM	2855	0.0	2999	2835	20	16.00+	842	67.2	10.4	37.3
8-9 PM	2356	0.0	2999	2356	0	7.58	430	67.8	15.2	40.4
9-10 PM	2124	0.0	3000	2124	0	0.40	4	68.1	56.1	49.7
10-11 PM	1688	0.0	3000	1688	0	0.34	0	68.6	57.9	49.7
11PM-MID	1447	0.0	3000	1447	0	0.34	0	68.9	58.0	49.7

+ 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	0.0314
MAIN ROUTE WITH WORKS	0.0174
'DIVERSION'	0.0223

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$295,092
CONGESTED HOURS PER DAY*	16

*Delays Exceeding User-Specified Maximum

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