

USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	484	0.0	1500	484	0	0.53	0	70.1	55.2	43.6	
1-2 AM	330	0.0	1500	330	0	0.51	0	70.2	55.6	44.2	
2-3 AM	290	0.0	1500	290	0	0.51	0	70.2	55.8	44.3	
3-4 AM	397	0.0	1500	397	0	0.52	0	70.2	55.5	43.9	
4-5 AM	752	0.0	1500	752	0	0.56	0	69.8	54.4	42.5	
5-6 AM	2041	0.0	OFF	2041	0	0.00	0	68.2	68.2	68.2	
6-7 AM	4167	0.0	OFF	4167	0	0.00	0	62.4	62.4	62.4	
7-8 AM	5370	0.0	OFF	5370	0	0.00	0	54.2	54.2	54.2	
8-9 AM	4359	0.0	OFF	4359	0	0.00	0	61.0	61.0	61.0	
9-10 AM	3628	0.0	OFF	3628	0	0.00	0	66.1	66.1	66.1	
10-11 AM	3551	0.0	OFF	3551	0	0.00	0	66.3	66.3	66.3	
11AM-NOON	3748	0.0	OFF	3748	0	0.00	0	65.3	65.3	65.3	
NOON-1PM	3640	0.0	OFF	3640	0	0.00	0	66.0	66.0	66.0	
1-2 PM	3243	0.0	OFF	3243	0	0.00	0	66.7	66.7	66.7	
2-3 PM	3955	0.0	OFF	3955	0	0.00	0	63.8	63.8	63.8	
3-4 PM	4680	0.0	OFF	4680	0	0.00	0	58.9	58.9	58.9	
4-5 PM	4317	0.0	OFF	4317	0	0.00	0	61.4	61.4	61.4	
5-6 PM	3991	0.0	OFF	3991	0	0.00	0	63.6	63.6	63.6	
6-7 PM	2984	0.0	OFF	2984	0	0.00	0	67.0	67.0	67.0	
7-8 PM	2147	0.0	1499	1901	247	11.73+	303	68.1	10.4	30.8	
8-9 PM	1756	0.0	1500	1500	256	16.62+	406	68.6	7.9	30.8	
9-10 PM	1588	0.0	1500	1503	86	16.61+	406	68.7	7.9	30.8	
10-11 PM	1307	0.0	1499	1307	0	13.09+	320	69.1	9.3	30.8	
11PM-MID	1164	0.0	1500	1164	0	2.60	86	69.3	30.0	36.4	

"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

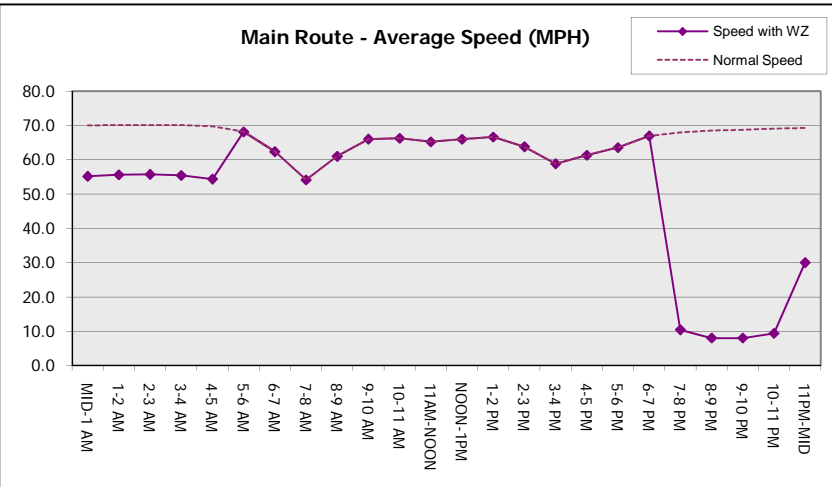
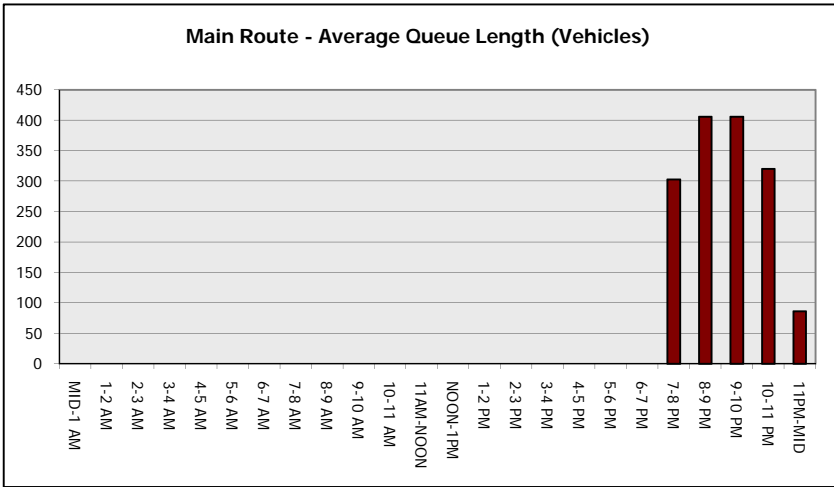
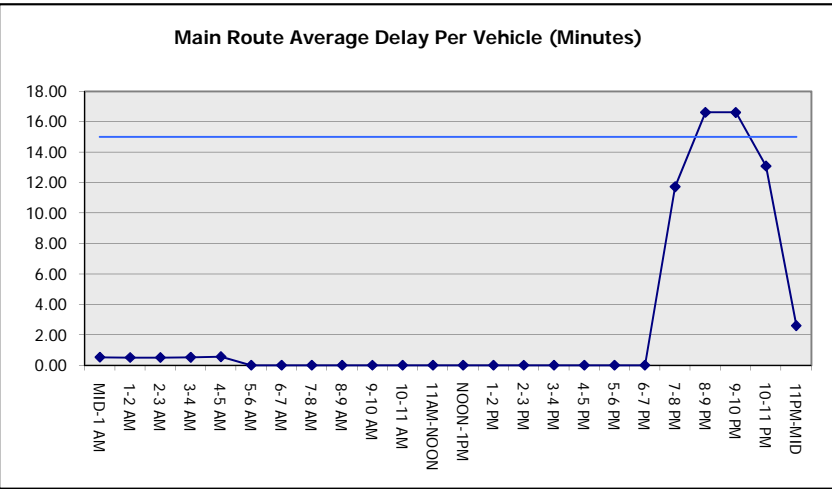
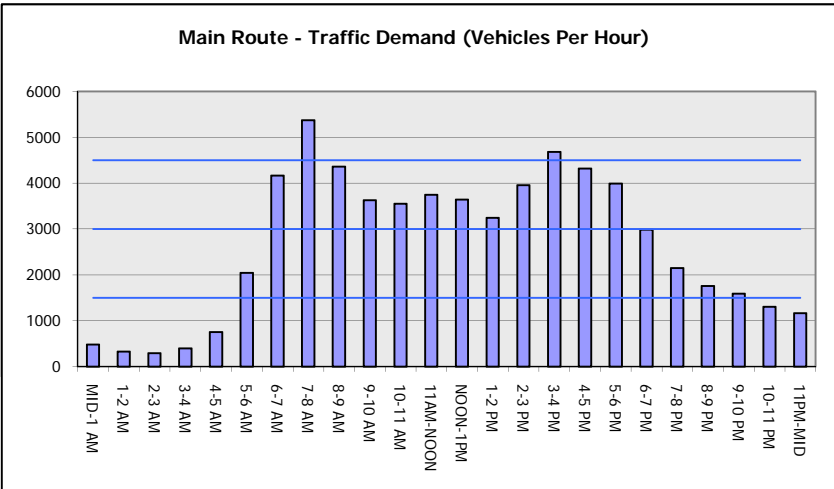
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0234
MAIN ROUTE WITH WORKS	0.0225
'DIVERSION'	0.0005
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$24,398
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	643	0.0	1500	643	0	1.60	71	69.9	38.6	42.6
1-2 AM	415	0.0	1500	415	0	0.52	0	70.2	55.4	43.8
2-3 AM	367	0.0	1500	367	0	0.52	0	70.2	55.5	44.0
3-4 AM	367	0.0	1500	367	0	0.52	0	70.2	55.5	44.0
4-5 AM	659	0.0	1500	659	0	0.55	0	69.9	54.6	42.9
5-6 AM	1933	0.0	OFF	1933	0	0.00	0	68.3	68.3	68.3
6-7 AM	3578	0.0	OFF	3578	0	0.00	0	66.3	66.3	66.3
7-8 AM	4621	0.0	OFF	4621	0	0.00	0	59.3	59.3	59.3
8-9 AM	3893	0.0	OFF	3893	0	0.00	0	64.3	64.3	64.3
9-10 AM	3261	0.0	OFF	3261	0	0.00	0	66.7	66.7	66.7
10-11 AM	3435	0.0	OFF	3435	0	0.00	0	66.4	66.4	66.4
11AM-NOON	3772	0.0	OFF	3772	0	0.00	0	65.1	65.1	65.1
NOON-1PM	4209	0.0	OFF	4209	0	0.00	0	62.1	62.1	62.1
1-2 PM	4403	0.0	OFF	4403	0	0.00	0	60.8	60.8	60.8
2-3 PM	5186	0.0	OFF	5186	0	0.00	0	55.5	55.5	55.5
3-4 PM	5716	0.0	OFF	5716	0	0.00	0	51.8	51.8	51.8
4-5 PM	6077	0.0	OFF	6077	0	0.00	0	49.4	49.4	49.4
5-6 PM	5733	0.0	OFF	5733	0	0.00	0	51.7	51.7	51.7
6-7 PM	4090	0.0	OFF	4090	0	0.00	0	62.9	62.9	62.9
7-8 PM	2892	0.0	1499	1551	1341	16.55+	413	67.1	8.0	36.6
8-9 PM	2409	0.0	1499	1855	554	13.37+	342	67.8	9.3	32.2
9-10 PM	2404	0.0	1499	1500	904	16.61+	407	67.8	7.9	30.8
10-11 PM	2358	0.0	1500	1500	858	16.61+	407	67.8	7.9	30.8
11PM-MID	1540	0.0	1500	1413	127	15.75+	384	68.8	8.2	30.8

"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	0.0271
MAIN ROUTE WITH WORKS	0.0250
'DIVERSION'	0.0032

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$44,314
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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