

USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY) OFF-PEAK DAY 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	OFF	484	0	0.00	0	70.1	70.1	70.1
1-2 AM	330	0.0	OFF	330	0	0.00	0	70.2	70.2	70.2
2-3 AM	290	0.0	OFF	290	0	0.00	0	70.2	70.2	70.2
3-4 AM	397	0.0	OFF	397	0	0.00	0	70.2	70.2	70.2
4-5 AM	752	0.0	OFF	752	0	0.00	0	69.8	69.8	69.8
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	2999	3551	0	4.87	271	66.3	20.5	37.3
11AM-NOON	3748	0.0	3000	3359	389	15.24+	809	65.3	10.9	37.3
NOON-1PM	3640	0.0	2999	2988	652	16.70+	882	66.0	10.5	37.3
1-2 PM	3243	0.0	2999	2992	251	16.67+	879	66.7	10.6	37.3
2-3 PM	3955	0.0	2999	2999	956	16.67+	886	63.8	10.5	37.3
3-4 PM	4680	0.0	OFF	4680	0	3.27	299	58.9	24.6	24.6
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	OFF	2147	0	0.00	0	68.1	68.1	68.1
8-9 PM	1756	0.0	OFF	1756	0	0.00	0	68.6	68.6	68.6
9-10 PM	1588	0.0	OFF	1588	0	0.00	0	68.7	68.7	68.7
10-11 PM	1307	0.0	OFF	1307	0	0.00	0	69.1	69.1	69.1
11PM-MID	1164	0.0	OFF	1164	0	0.00	0	69.3	69.3	69.3

"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

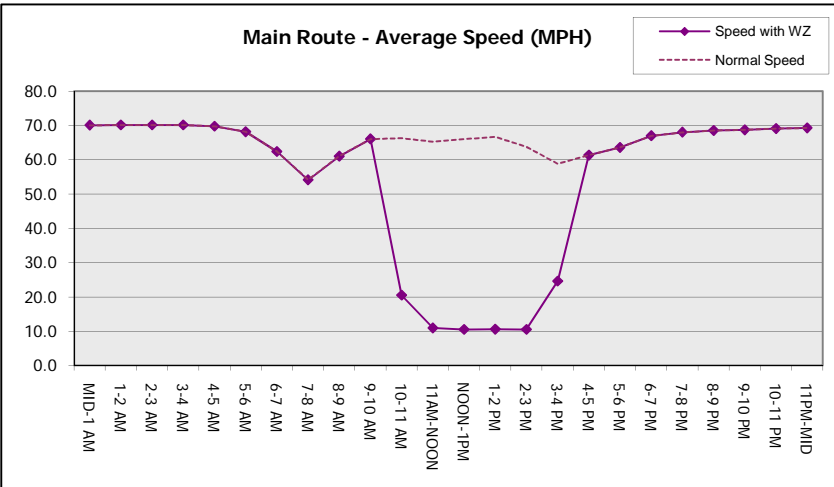
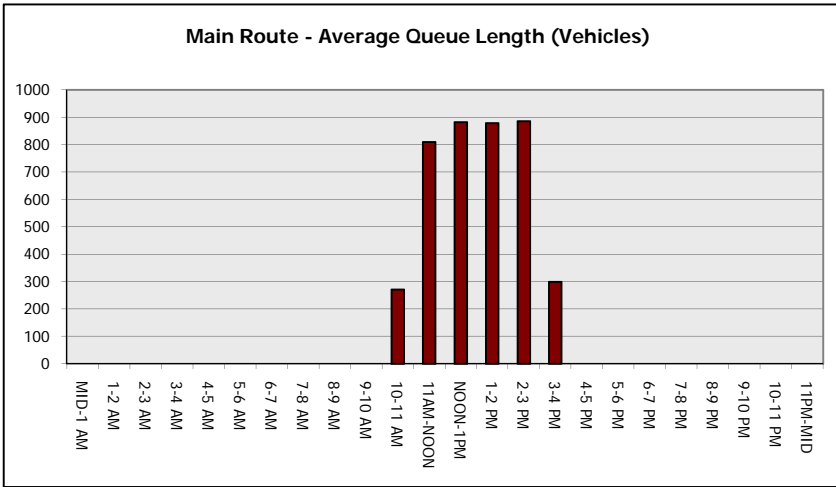
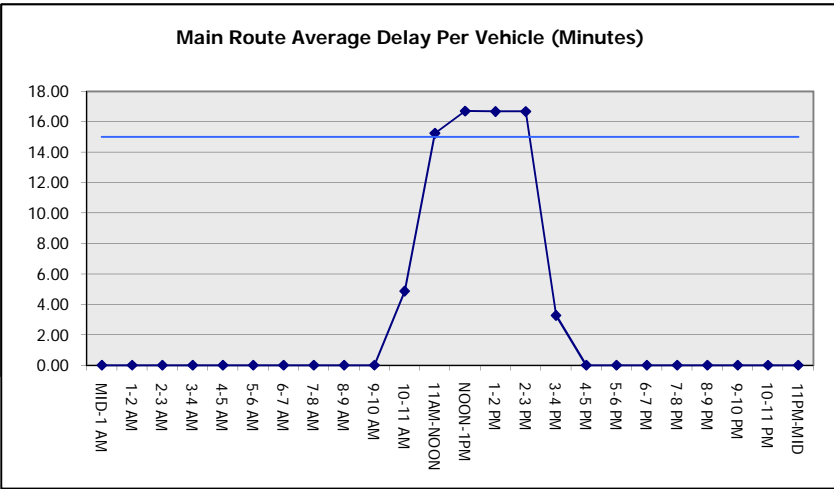
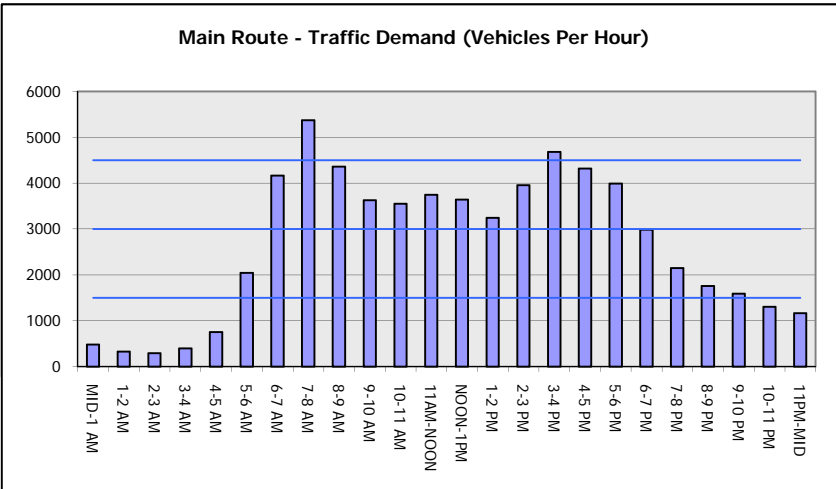
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0234
MAIN ROUTE WITH WORKS	0.0215
'DIVERSION'	0.0019
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$47,979
CONGESTED HOURS PER DAY*	4

*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	OFF	643	0	0.00	0	69.9	69.9	69.9
1-2 AM	415	0.0	OFF	415	0	0.00	0	70.2	70.2	70.2
2-3 AM	367	0.0	OFF	367	0	0.00	0	70.2	70.2	70.2
3-4 AM	367	0.0	OFF	367	0	0.00	0	70.2	70.2	70.2
4-5 AM	659	0.0	OFF	659	0	0.00	0	69.9	69.9	69.9
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	2999	3435	0	3.75	201	66.4	23.7	37.3
11AM-NOON	3772	0.0	3000	3416	356	13.98+	750	65.1	11.4	37.3
NOON-1PM	4209	0.0	3000	3053	1156	16.76+	897	62.1	10.4	37.3
1-2 PM	4403	0.0	3000	3024	1378	16.98+	913	60.8	10.4	37.3
2-3 PM	5186	0.0	2999	3000	2186	17.11+	939	55.5	10.3	37.3
3-4 PM	5716	0.0	OFF	5716	0	7.97	786	51.8	13.0	13.0
4-5 PM	6077	0.0	OFF	6077	0	6.80	683	49.4	14.3	14.3
5-6 PM	5733	0.0	OFF	5733	0	5.98	587	51.7	16.0	16.0
6-7 PM	4090	0.0	OFF	4090	0	0.65	54	62.9	48.4	48.4
7-8 PM	2892	0.0	OFF	2892	0	0.00	0	67.1	67.1	67.1
8-9 PM	2409	0.0	OFF	2409	0	0.00	0	67.8	67.8	67.8
9-10 PM	2404	0.0	OFF	2404	0	0.00	0	67.8	67.8	67.8
10-11 PM	2358	0.0	OFF	2358	0	0.00	0	67.8	67.8	67.8
11PM-MID	1540	0.0	OFF	1540	0	0.00	0	68.8	68.8	68.8

"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	0.0242
'DIVERSION'	0.0043

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$75,114
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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