

USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY) NIGHTTIME 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	3000	484	0	0.36	0	70.1	59.3	49.7
1-2 AM	330	0.0	3000	330	0	0.36	0	70.2	59.3	49.7
2-3 AM	290	0.0	3000	290	0	0.36	0	70.2	59.3	49.7
3-4 AM	397	0.0	3000	397	0	0.36	0	70.2	59.3	49.7
4-5 AM	752	0.0	3000	752	0	0.35	0	69.8	59.2	49.7
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	3000	2147	0	0.33	0	68.1	58.5	49.7
8-9 PM	1756	0.0	3000	1756	0	0.34	0	68.6	58.7	49.7
9-10 PM	1588	0.0	3000	1588	0	0.34	0	68.7	58.7	49.7
10-11 PM	1307	0.0	3000	1307	0	0.35	0	69.1	58.9	49.7
11PM-MID	1164	0.0	3000	1164	0	0.35	0	69.3	59.0	49.7

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- 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

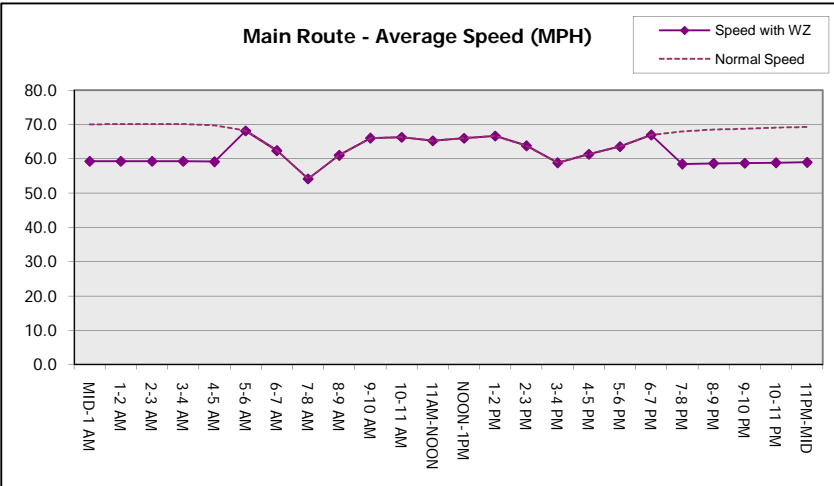
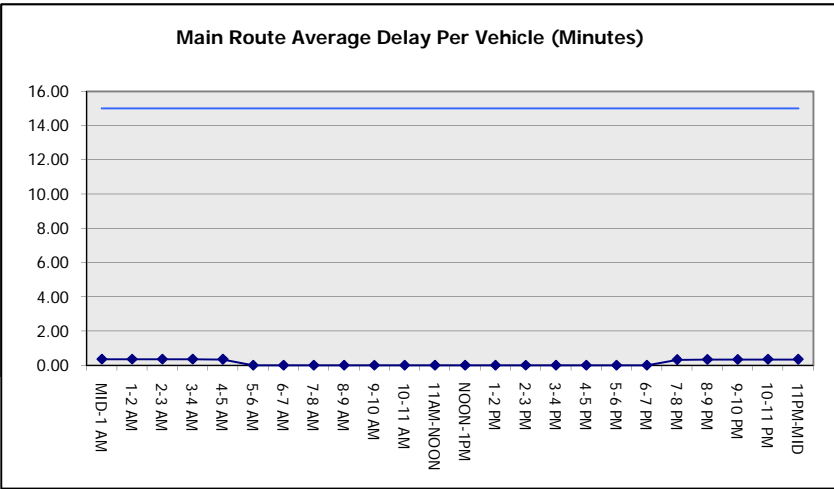
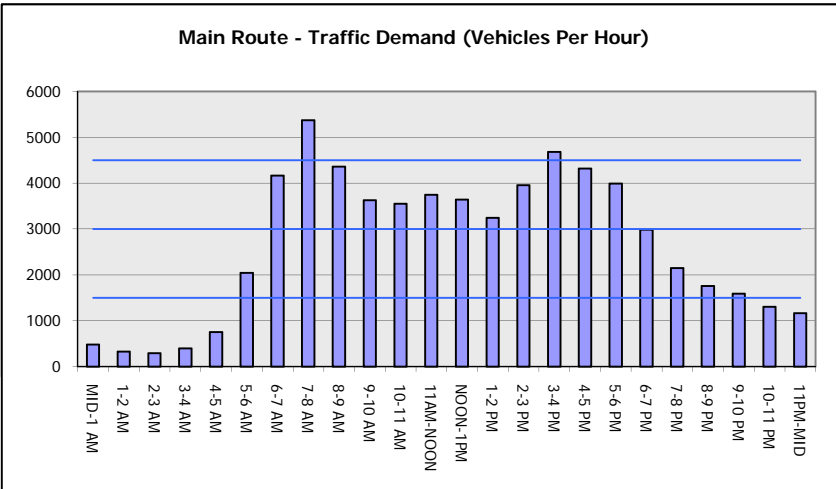
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0234
MAIN ROUTE WITH WORKS	0.0227
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$734
CONGESTED HOURS PER DAY*	0

*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	3000	643	0	0.36	0	69.9	59.2	49.7
1-2 AM	415	0.0	3000	415	0	0.36	0	70.2	59.3	49.7
2-3 AM	367	0.0	3000	367	0	0.36	0	70.2	59.3	49.7
3-4 AM	367	0.0	3000	367	0	0.36	0	70.2	59.3	49.7
4-5 AM	659	0.0	3000	659	0	0.36	0	69.9	59.2	49.7
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	2999	2892	0	0.90	16	67.1	46.7	39.9
8-9 PM	2409	0.0	3000	2409	0	0.34	0	67.8	58.0	49.1
9-10 PM	2404	0.0	3000	2404	0	0.34	0	67.8	58.1	49.2
10-11 PM	2358	0.0	3000	2358	0	0.33	0	67.8	58.4	49.7
11PM-MID	1540	0.0	3000	1540	0	0.34	0	68.8	58.8	49.7

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- 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	0.0261
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,341
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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