

USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	459	0.0	3000	459	0	0.36	0	70.2	64.3	49.7
1-2 AM	320	0.0	3000	320	0	0.36	0	70.2	64.3	49.7
2-3 AM	294	0.0	3000	294	0	0.36	0	70.2	64.3	49.7
3-4 AM	383	0.0	3000	383	0	0.36	0	70.2	64.3	49.7
4-5 AM	829	0.0	3000	829	0	0.35	0	69.7	64.0	49.7
5-6 AM	2611	0.0	OFF	2611	0	0.00	0	67.5	67.5	67.5
6-7 AM	5252	0.0	OFF	5252	0	0.00	0	55.0	55.0	55.0
7-8 AM	6164	0.0	OFF	6164	0	0.00	0	48.7	48.7	48.7
8-9 AM	3986	0.0	OFF	3986	0	0.00	0	63.7	63.7	63.7
9-10 AM	3214	0.0	OFF	3214	0	0.00	0	66.8	66.8	66.8
10-11 AM	3010	0.0	OFF	3010	0	0.00	0	67.0	67.0	67.0
11AM-NOON	3214	0.0	OFF	3214	0	0.00	0	66.8	66.8	66.8
NOON-1PM	3356	0.0	OFF	3356	0	0.00	0	66.6	66.6	66.6
1-2 PM	3397	0.0	OFF	3397	0	0.00	0	66.5	66.5	66.5
2-3 PM	3876	0.0	OFF	3876	0	0.00	0	64.4	64.4	64.4
3-4 PM	4352	0.0	OFF	4352	0	0.00	0	61.1	61.1	61.1
4-5 PM	4277	0.0	OFF	4277	0	0.00	0	61.7	61.7	61.7
5-6 PM	3985	0.0	OFF	3985	0	0.00	0	63.7	63.7	63.7
6-7 PM	3146	0.0	OFF	3146	0	0.00	0	66.8	66.8	66.8
7-8 PM	2322	0.0	3000	2322	0	0.33	0	67.9	62.8	49.7
8-9 PM	1878	0.0	3000	1878	0	0.34	0	68.4	63.2	49.7
9-10 PM	1780	0.0	3000	1780	0	0.34	0	68.5	63.2	49.7
10-11 PM	1424	0.0	3000	1424	0	0.34	0	69.0	63.5	49.7
11PM-MID	1137	0.0	3000	1137	0	0.35	0	69.3	63.7	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

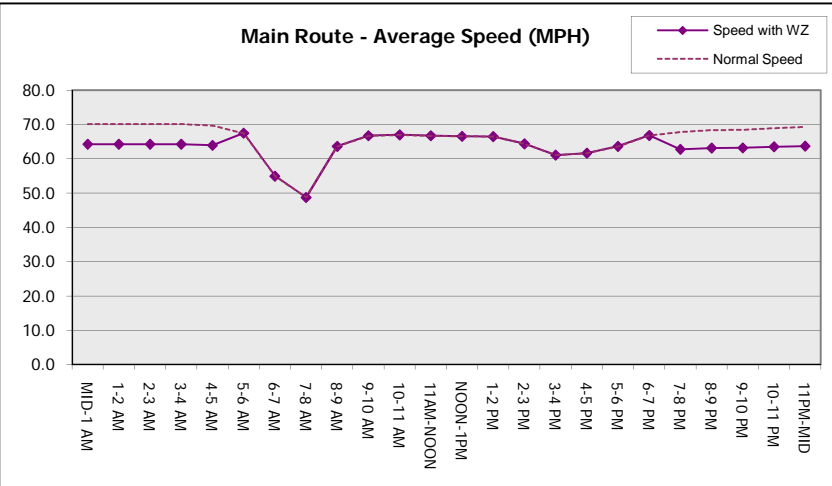
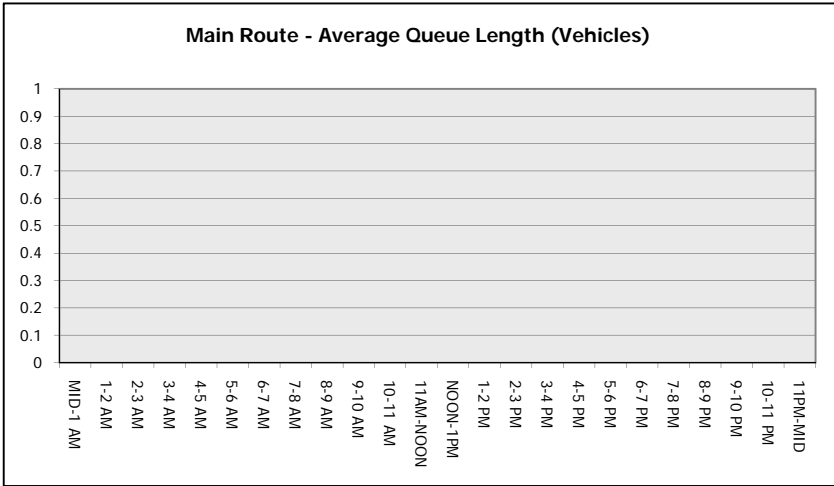
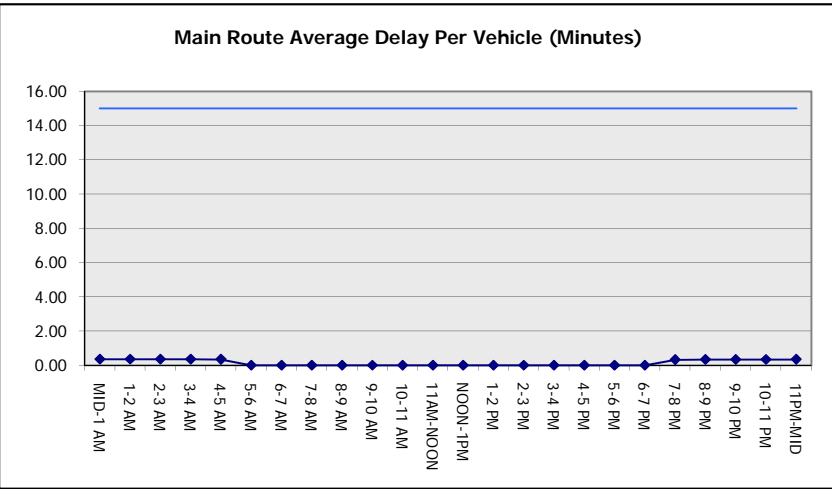
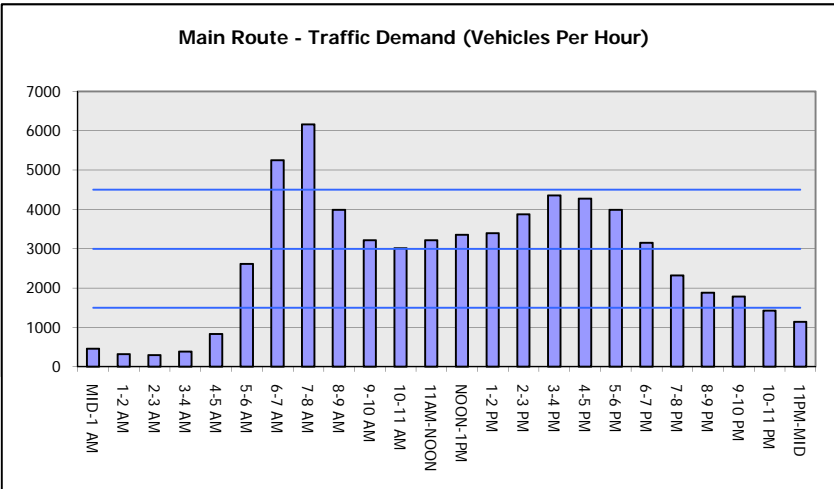
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0473
MAIN ROUTE WITH WORKS	0.0466
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$769
CONGESTED HOURS PER DAY*	0

*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	582	0.0	3000	582	0	0.36	0	70.0	64.2	49.7
1-2 AM	363	0.0	3000	363	0	0.36	0	70.2	64.3	49.7
2-3 AM	315	0.0	3000	315	0	0.36	0	70.2	64.3	49.7
3-4 AM	355	0.0	3000	355	0	0.36	0	70.2	64.3	49.7
4-5 AM	669	0.0	3000	669	0	0.36	0	69.9	64.1	49.7
5-6 AM	1700	0.0	OFF	1700	0	0.00	0	68.6	68.6	68.6
6-7 AM	3253	0.0	OFF	3253	0	0.00	0	66.7	66.7	66.7
7-8 AM	3187	0.0	OFF	3187	0	0.00	0	66.8	66.8	66.8
8-9 AM	2919	0.0	OFF	2919	0	0.00	0	67.1	67.1	67.1
9-10 AM	3037	0.0	OFF	3037	0	0.00	0	66.9	66.9	66.9
10-11 AM	3201	0.0	OFF	3201	0	0.00	0	66.8	66.8	66.8
11AM-NOON	3638	0.0	OFF	3638	0	0.00	0	66.0	66.0	66.0
NOON-1PM	3949	0.0	OFF	3949	0	0.00	0	63.9	63.9	63.9
1-2 PM	4193	0.0	OFF	4193	0	0.00	0	62.2	62.2	62.2
2-3 PM	5191	0.0	OFF	5191	0	0.00	0	55.4	55.4	55.4
3-4 PM	6328	0.0	OFF	6328	0	0.00	0	47.6	47.6	47.6
4-5 PM	7122	0.0	OFF	7122	0	0.00	0	42.2	42.2	42.2
5-6 PM	6305	0.0	OFF	6305	0	0.00	0	47.8	47.8	47.8
6-7 PM	4137	0.0	OFF	4137	0	0.00	0	62.6	62.6	62.6
7-8 PM	2955	0.0	2999	2955	0	1.32	38	67.1	50.7	39.1
8-9 PM	2306	0.0	3000	2306	0	0.33	0	67.9	62.8	49.7
9-10 PM	2214	0.0	3000	2214	0	0.33	0	68.0	62.8	49.7
10-11 PM	2035	0.0	3000	2035	0	0.33	0	68.2	63.0	49.7
11PM-MID	1313	0.0	3000	1313	0	0.35	0	69.1	63.6	49.7

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

WARNING: THE DEMAND FLOW IN ONE OR MORE HOURS EXCEEDS THE THEORETICAL CAPACITY OF THE MAIN ROUTE *WITHOUT* CONSTRUCTION

----- 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	0.0522
MAIN ROUTE WITH WORKS	0.0513
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,524
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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