

USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES) 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	586	0.0	3000	586	0	0.36	0	70.0	64.2	49.7
1-2 AM	352	0.0	3000	352	0	0.36	0	70.2	64.3	49.7
2-3 AM	317	0.0	3000	317	0	0.36	0	70.2	64.3	49.7
3-4 AM	424	0.0	3000	424	0	0.36	0	70.2	64.3	49.7
4-5 AM	895	0.0	3000	895	0	0.35	0	69.6	64.0	49.7
5-6 AM	2618	0.0	OFF	2618	0	0.00	0	67.5	67.5	67.5
6-7 AM	5191	0.0	OFF	5191	0	0.00	0	55.4	55.4	55.4
7-8 AM	5996	0.0	OFF	5996	0	0.00	0	49.9	49.9	49.9
8-9 AM	4084	0.0	OFF	4084	0	0.00	0	63.0	63.0	63.0
9-10 AM	3445	0.0	OFF	3445	0	0.00	0	66.4	66.4	66.4
10-11 AM	3412	0.0	OFF	3412	0	0.00	0	66.5	66.5	66.5
11AM-NOON	3602	0.0	OFF	3602	0	0.00	0	66.3	66.3	66.3
NOON-1PM	3765	0.0	OFF	3765	0	0.00	0	65.1	65.1	65.1
1-2 PM	3780	0.0	OFF	3780	0	0.00	0	65.0	65.0	65.0
2-3 PM	4156	0.0	OFF	4156	0	0.00	0	62.5	62.5	62.5
3-4 PM	4474	0.0	OFF	4474	0	0.00	0	60.3	60.3	60.3
4-5 PM	4202	0.0	OFF	4202	0	0.00	0	62.2	62.2	62.2
5-6 PM	3923	0.0	OFF	3923	0	0.00	0	64.0	64.0	64.0
6-7 PM	3225	0.0	OFF	3225	0	0.00	0	66.8	66.8	66.8
7-8 PM	2368	0.0	3000	2368	0	0.33	0	67.8	62.7	49.7
8-9 PM	1945	0.0	3000	1945	0	0.34	0	68.3	63.1	49.7
9-10 PM	1801	0.0	3000	1801	0	0.34	0	68.5	63.2	49.7
10-11 PM	1474	0.0	3000	1474	0	0.34	0	68.9	63.5	49.7
11PM-MID	1217	0.0	3000	1217	0	0.35	0	69.2	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	0.0
(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	0
(VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

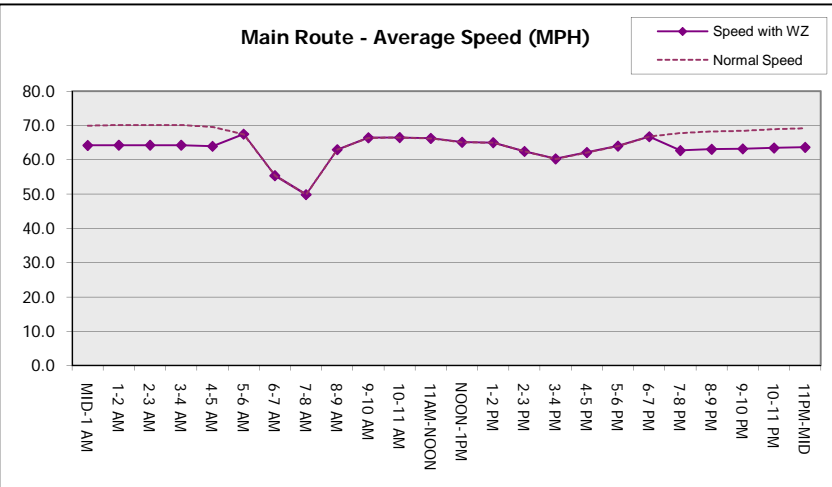
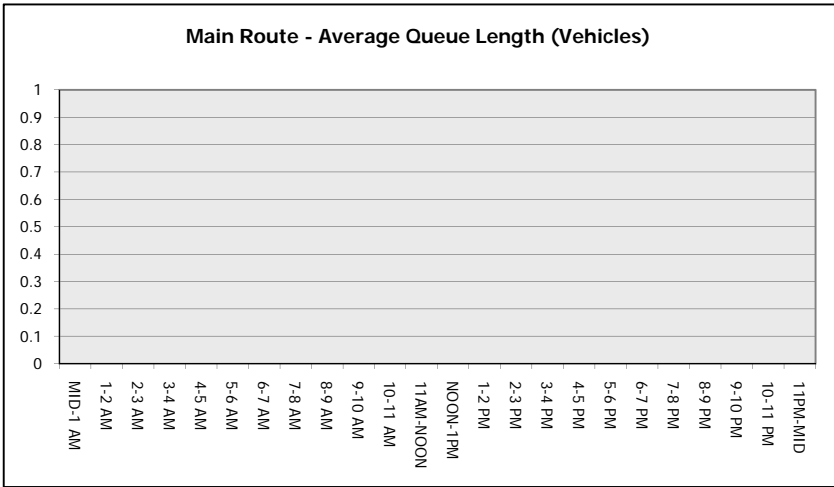
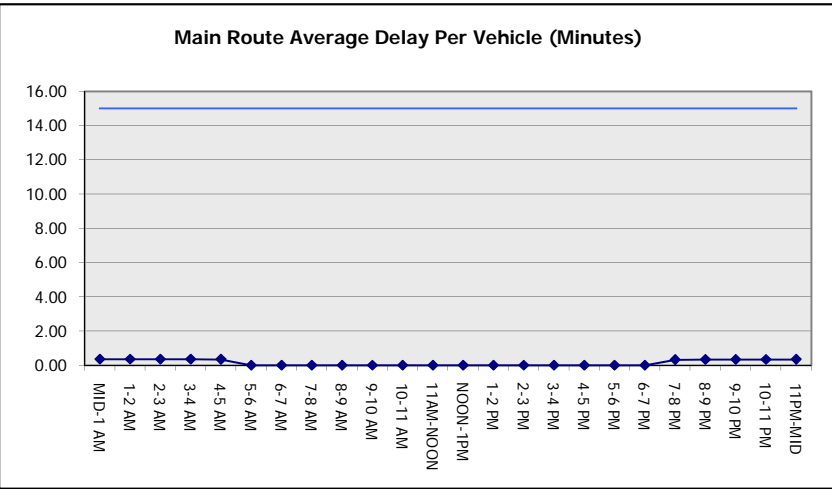
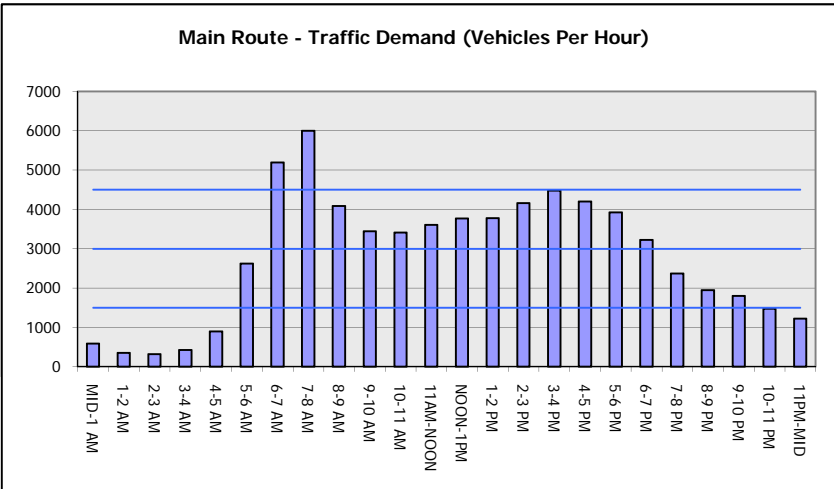
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0492
MAIN ROUTE WITH WORKS	0.0485
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$828
CONGESTED HOURS PER DAY*	0

*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	597	0.0	3000	597	0	0.36	0	70.0	64.1	49.7
1-2 AM	401	0.0	3000	401	0	0.36	0	70.2	64.3	49.7
2-3 AM	378	0.0	3000	378	0	0.36	0	70.2	64.3	49.7
3-4 AM	339	0.0	3000	339	0	0.36	0	70.2	64.3	49.7
4-5 AM	689	0.0	3000	689	0	0.36	0	69.9	64.1	49.7
5-6 AM	1718	0.0	OFF	1718	0	0.00	0	68.6	68.6	68.6
6-7 AM	3010	0.0	OFF	3010	0	0.00	0	67.0	67.0	67.0
7-8 AM	3141	0.0	OFF	3141	0	0.00	0	66.8	66.8	66.8
8-9 AM	2923	0.0	OFF	2923	0	0.00	0	67.1	67.1	67.1
9-10 AM	2999	0.0	OFF	2999	0	0.00	0	67.0	67.0	67.0
10-11 AM	3346	0.0	OFF	3346	0	0.00	0	66.6	66.6	66.6
11AM-NOON	3882	0.0	OFF	3882	0	0.00	0	64.3	64.3	64.3
NOON-1PM	4243	0.0	OFF	4243	0	0.00	0	61.9	61.9	61.9
1-2 PM	4413	0.0	OFF	4413	0	0.00	0	60.7	60.7	60.7
2-3 PM	5505	0.0	OFF	5505	0	0.00	0	53.2	53.2	53.2
3-4 PM	6269	0.0	OFF	6269	0	0.00	0	48.0	48.0	48.0
4-5 PM	6829	0.0	OFF	6829	0	0.00	0	44.2	44.2	44.2
5-6 PM	6337	0.0	OFF	6337	0	0.00	0	47.6	47.6	47.6
6-7 PM	4357	0.0	OFF	4357	0	0.00	0	61.1	61.1	61.1
7-8 PM	3055	0.0	2999	3055	0	2.23	84	66.9	43.4	37.5
8-9 PM	2542	0.0	3000	2542	0	0.50	4	67.6	60.2	45.8
9-10 PM	2337	0.0	3000	2337	0	0.33	0	67.8	62.7	49.7
10-11 PM	2188	0.0	3000	2188	0	0.33	0	68.0	62.8	49.7
11PM-MID	1460	0.0	3000	1460	0	0.34	0	68.9	63.5	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	0.0534
MAIN ROUTE WITH WORKS	0.0525
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$2,322
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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