

USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES) 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	586	0.0	1500	586	0	0.62	2	70.0	60.5	43.2	
1-2 AM	352	0.0	1500	352	0	0.52	0	70.2	62.0	44.1	
2-3 AM	317	0.0	1500	317	0	0.51	0	70.2	62.1	44.2	
3-4 AM	424	0.0	1500	424	0	0.52	0	70.2	61.9	43.8	
4-5 AM	895	0.0	1500	895	0	0.58	0	69.6	60.8	42.0	
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	1499	1897	471	12.85+	319	67.8	16.3	32.0	
8-9 PM	1945	0.0	1499	1500	445	16.34+	399	68.3	13.5	30.8	
9-10 PM	1801	0.0	1500	1500	301	16.35+	400	68.5	13.5	30.8	
10-11 PM	1474	0.0	1500	1451	24	15.84+	386	68.9	13.9	30.8	
11PM-MID	1217	0.0	1499	1217	0	9.16	234	69.2	21.0	32.9	

"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

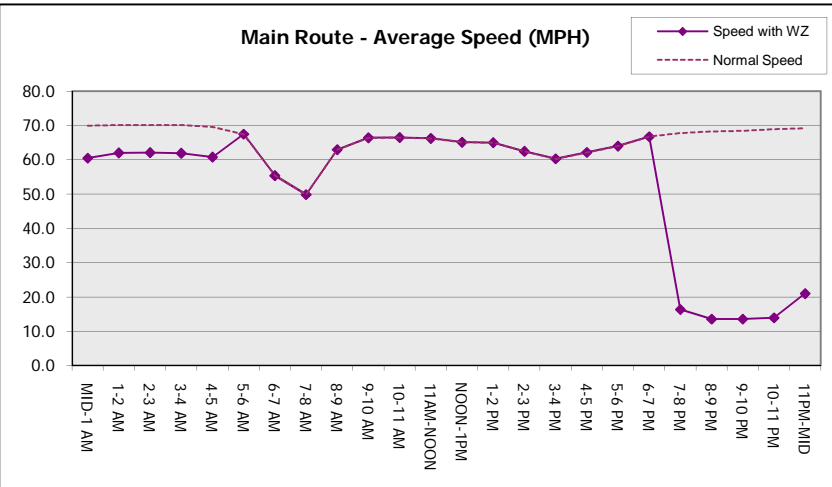
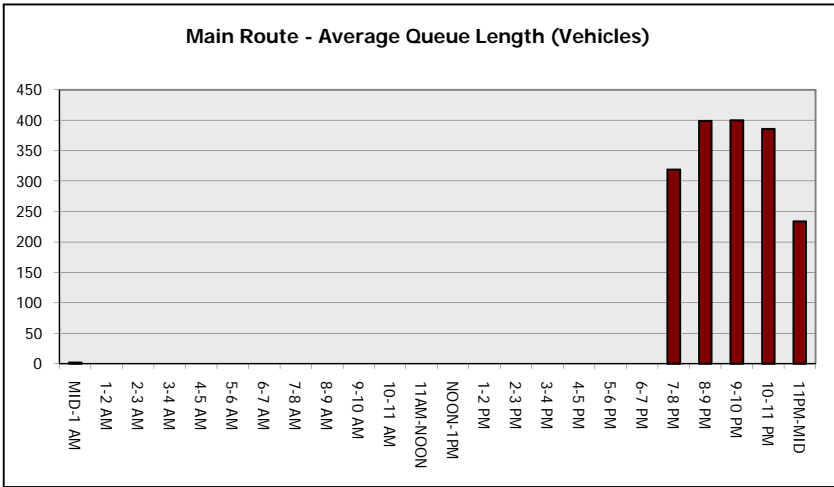
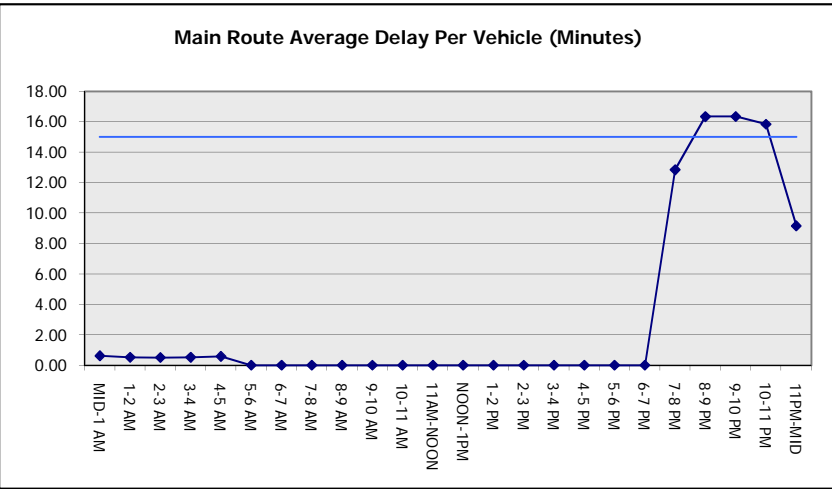
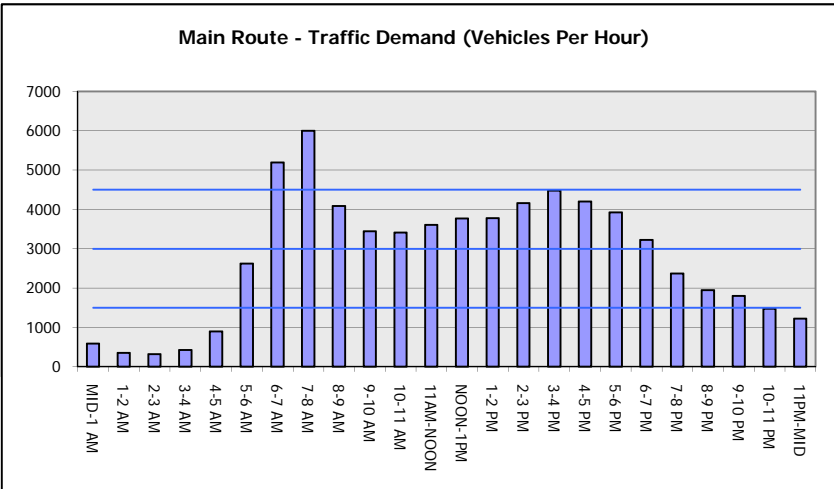
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0492
MAIN ROUTE WITH WORKS	0.0476
'DIVERSION'	0.0021
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$29,874
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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 NO DIVERSION ROUTE (MAX QUEUE METHOD)**

AUGUST
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
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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	1500	597	0	1.48	46	70.0	50.9	42.9
1-2 AM	401	0.0	1500	401	0	0.52	0	70.2	62.0	43.9
2-3 AM	378	0.0	1500	378	0	0.52	0	70.2	62.0	44.0
3-4 AM	339	0.0	1500	339	0	0.51	0	70.2	62.0	44.2
4-5 AM	689	0.0	1500	689	0	0.55	0	69.9	61.3	42.8
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	1499	1550	1506	16.46+	412	66.9	13.4	36.6
8-9 PM	2542	0.0	1499	1719	822	13.58+	350	67.6	15.6	35.1
9-10 PM	2337	0.0	1499	1603	733	15.93+	390	67.8	13.8	30.8
10-11 PM	2188	0.0	1500	1500	688	16.33+	400	68.0	13.5	30.8
11PM-MID	1460	0.0	1500	1396	64	14.81+	362	68.9	14.7	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	0.0534
MAIN ROUTE WITH WORKS	0.0499
'DIVERSION'	0.0065

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$42,430
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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