

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

SATURDAY 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	627	0.0	3000	627	0	0.36	0	69.9	64.1	49.7
1-2 AM	346	0.0	3000	346	0	0.36	0	70.2	64.3	49.7
2-3 AM	275	0.0	3000	275	0	0.36	0	70.2	64.3	49.7
3-4 AM	272	0.0	3000	272	0	0.36	0	70.2	64.3	49.7
4-5 AM	433	0.0	3000	433	0	0.36	0	70.2	64.3	49.7
5-6 AM	766	0.0	3000	766	0	0.35	0	69.8	64.0	49.7
6-7 AM	1310	0.0	3000	1310	0	0.35	0	69.1	63.6	49.7
7-8 AM	1681	0.0	3000	1681	0	0.34	0	68.6	63.3	49.7
8-9 AM	2233	0.0	OFF	2233	0	0.00	0	67.9	67.9	67.9
9-10 AM	2918	0.0	OFF	2918	0	0.00	0	67.1	67.1	67.1
10-11 AM	3319	0.0	OFF	3319	0	0.00	0	66.6	66.6	66.6
11AM-NOON	3710	0.0	OFF	3710	0	0.00	0	65.5	65.5	65.5
NOON-1PM	3652	0.0	OFF	3652	0	0.00	0	65.9	65.9	65.9
1-2 PM	3686	0.0	OFF	3686	0	0.00	0	65.6	65.6	65.6
2-3 PM	3660	0.0	OFF	3660	0	0.00	0	65.8	65.8	65.8
3-4 PM	3523	0.0	OFF	3523	0	0.00	0	66.4	66.4	66.4
4-5 PM	3371	0.0	OFF	3371	0	0.00	0	66.6	66.6	66.6
5-6 PM	3120	0.0	OFF	3120	0	0.00	0	66.9	66.9	66.9
6-7 PM	2746	0.0	3000	2746	0	0.56	0	67.3	59.2	41.5
7-8 PM	2261	0.0	3000	2261	0	0.33	0	67.9	62.8	49.7
8-9 PM	2099	0.0	3000	2099	0	0.33	0	68.1	63.0	49.7
9-10 PM	1888	0.0	3000	1888	0	0.34	0	68.4	63.1	49.7
10-11 PM	1493	0.0	3000	1493	0	0.34	0	68.9	63.5	49.7
11PM-MID	1115	0.0	3000	1115	0	0.35	0	69.4	63.8	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

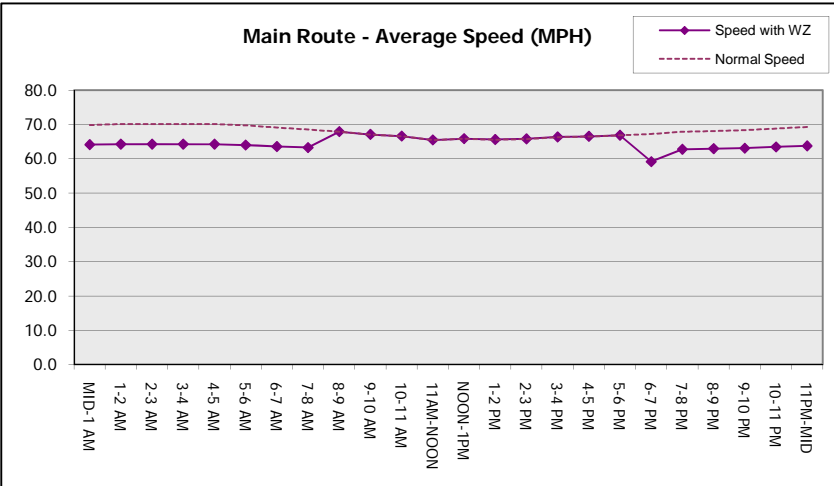
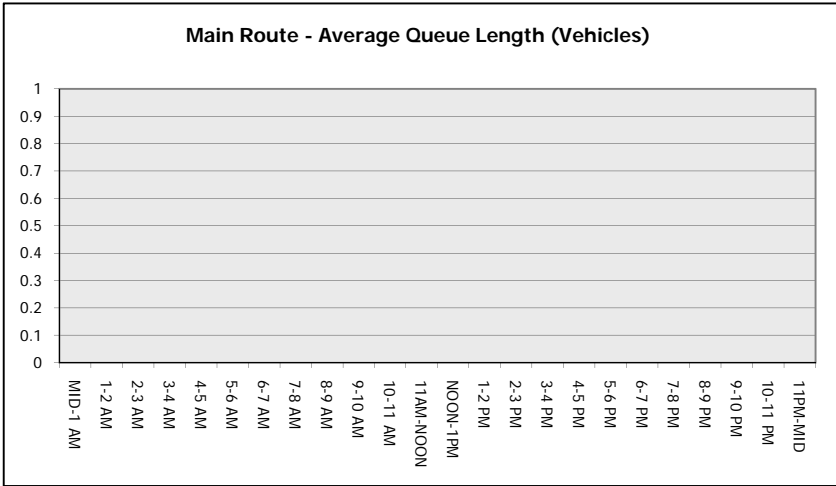
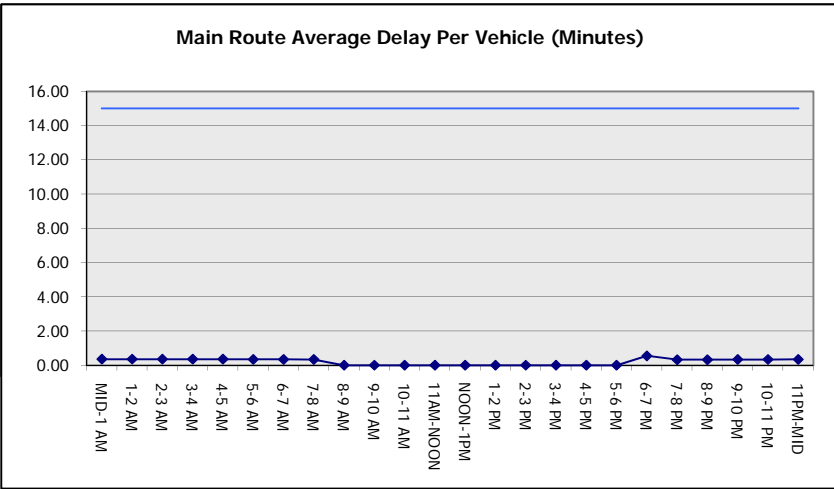
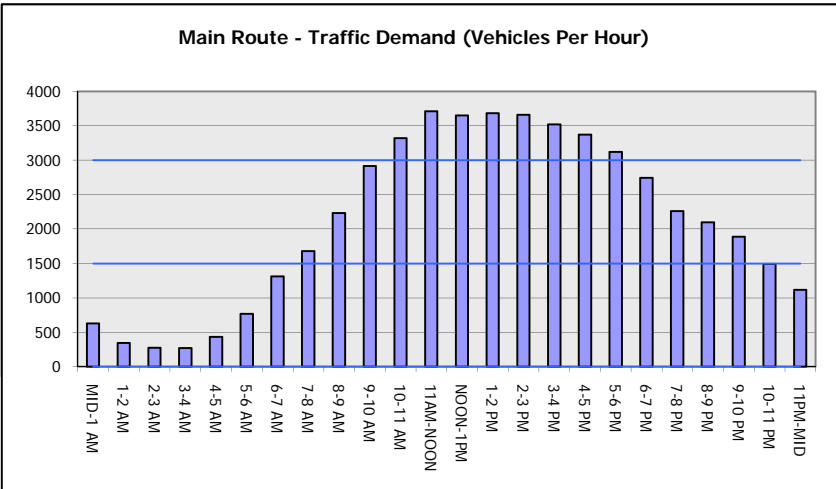
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0370
MAIN ROUTE WITH WORKS	0.0358
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,487
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION



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NIGHTTIME CLOSURE	Analyzed for 2009
NO DIVERSION ROUTE (MAX QUEUE METHOD)	Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	945	0.0	3000	945	0	0.35	0	69.6	63.9	49.7
1-2 AM	518	0.0	3000	518	0	0.36	0	70.1	64.2	49.7
2-3 AM	402	0.0	3000	402	0	0.36	0	70.2	64.3	49.7
3-4 AM	311	0.0	3000	311	0	0.36	0	70.2	64.3	49.7
4-5 AM	434	0.0	3000	434	0	0.36	0	70.2	64.3	49.7
5-6 AM	735	0.0	3000	735	0	0.35	0	69.8	64.1	49.7
6-7 AM	1368	0.0	3000	1368	0	0.34	0	69.1	63.5	49.7
7-8 AM	1824	0.0	3000	1824	0	0.34	0	68.5	63.2	49.7
8-9 AM	2442	0.0	OFF	2442	0	0.00	0	67.7	67.7	67.7
9-10 AM	2948	0.0	OFF	2948	0	0.00	0	67.1	67.1	67.1
10-11 AM	3365	0.0	OFF	3365	0	0.00	0	66.6	66.6	66.6
11AM-NOON	3534	0.0	OFF	3534	0	0.00	0	66.3	66.3	66.3
NOON-1PM	3826	0.0	OFF	3826	0	0.00	0	64.7	64.7	64.7
1-2 PM	3294	0.0	OFF	3294	0	0.00	0	66.6	66.6	66.6
2-3 PM	3045	0.0	OFF	3045	0	0.00	0	66.9	66.9	66.9
3-4 PM	3512	0.0	OFF	3512	0	0.00	0	66.4	66.4	66.4
4-5 PM	3296	0.0	OFF	3296	0	0.00	0	66.6	66.6	66.6
5-6 PM	2997	0.0	OFF	2997	0	0.00	0	67.0	67.0	67.0
6-7 PM	2526	0.0	3000	2526	0	0.42	0	67.6	61.3	46.2
7-8 PM	2118	0.0	3000	2118	0	0.33	0	68.1	62.9	49.7
8-9 PM	1901	0.0	3000	1901	0	0.34	0	68.4	63.1	49.7
9-10 PM	1887	0.0	3000	1887	0	0.34	0	68.4	63.1	49.7
10-11 PM	1678	0.0	3000	1678	0	0.34	0	68.6	63.3	49.7
11PM-MID	1076	0.0	3000	1076	0	0.35	0	69.4	63.8	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	0.0366
MAIN ROUTE WITH WORKS	0.0354
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,430
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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SATURDAY NORTHBOUND DIRECTION

