

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

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	1500	627	0	0.55	0	69.9	61.4	43.0	
1-2 AM	346	0.0	1500	346	0	0.51	0	70.2	62.0	44.1	
2-3 AM	275	0.0	1500	275	0	0.51	0	70.2	62.2	44.4	
3-4 AM	272	0.0	1500	272	0	0.51	0	70.2	62.2	44.4	
4-5 AM	433	0.0	1500	433	0	0.53	0	70.2	61.9	43.8	
5-6 AM	766	0.0	1500	766	0	0.56	0	69.8	61.1	42.5	
6-7 AM	1310	0.0	1499	1310	0	0.85	0	69.1	57.0	35.5	
7-8 AM	1681	0.0	1499	1681	0	3.02	61	68.6	39.2	30.8	
8-9 AM	2233	0.0	OFF	2233	0	0.06	4	67.9	67.0	67.0	
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	1499	1679	1067	14.10+	356	67.3	15.2	35.8	
7-8 PM	2261	0.0	1499	1705	557	14.77+	369	67.9	14.7	32.2	
8-9 PM	2099	0.0	1499	1500	599	16.33+	399	68.1	13.5	30.8	
9-10 PM	1888	0.0	1500	1500	388	16.35+	400	68.4	13.5	30.8	
10-11 PM	1493	0.0	1500	1458	35	15.69+	382	68.9	14.0	30.8	
11PM-MID	1115	0.0	1499	1115	0	5.82	178	69.4	28.1	35.4	

"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	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

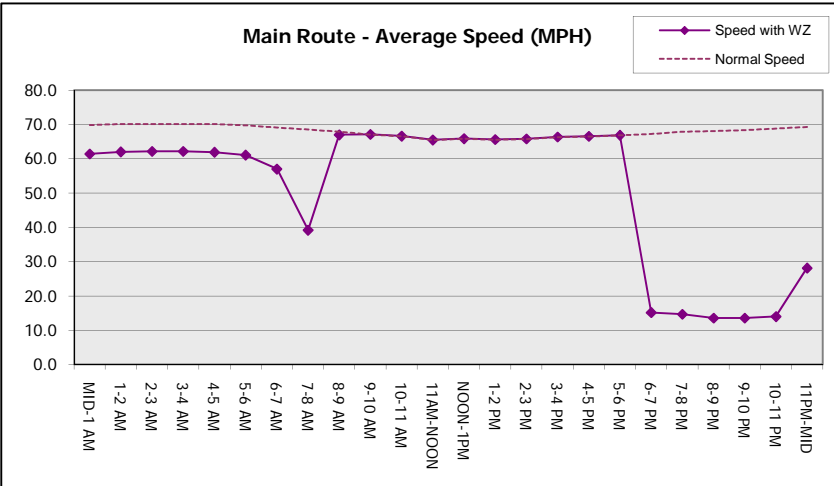
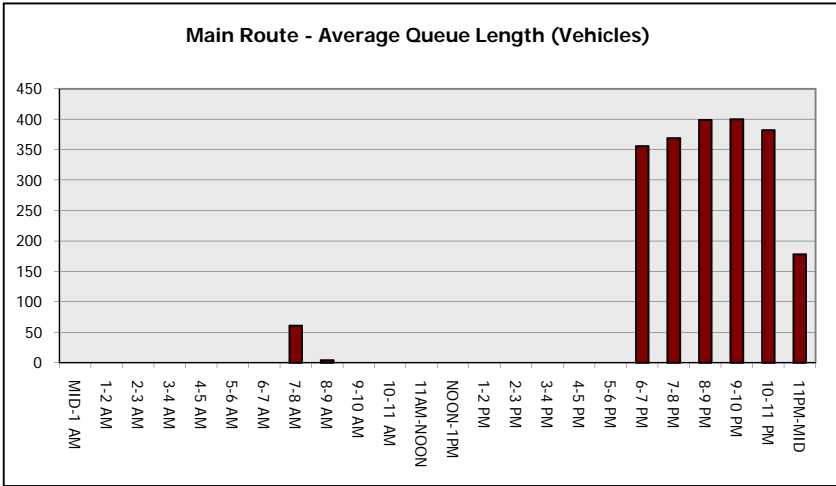
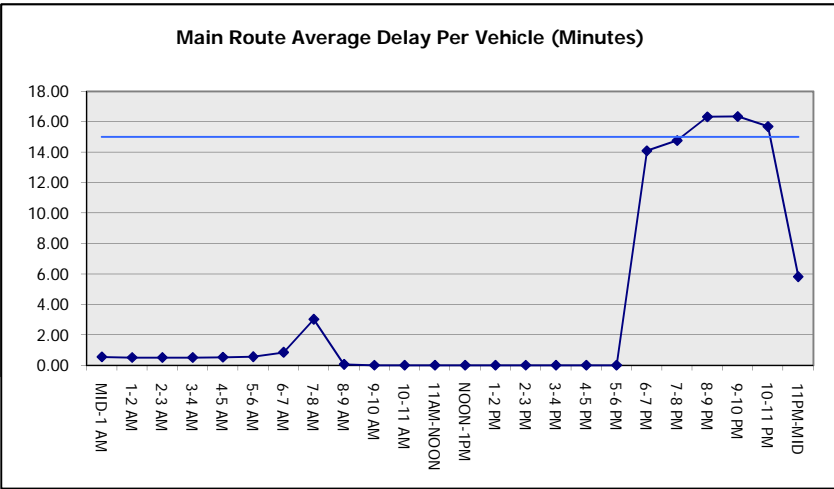
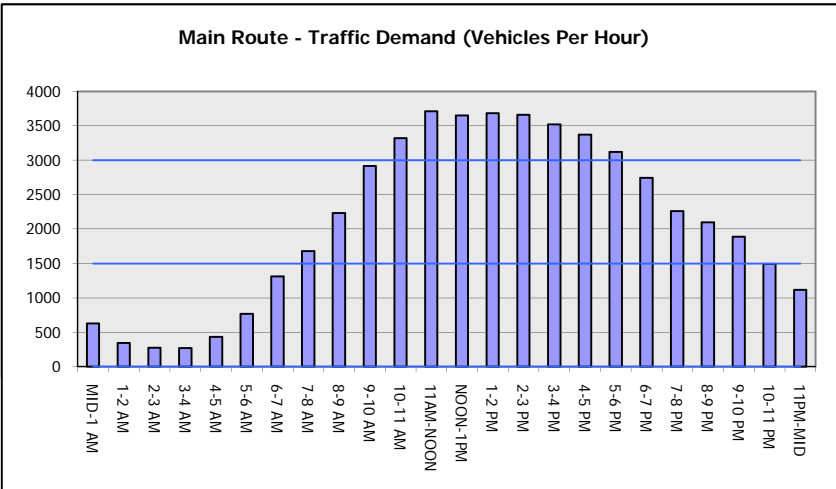
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0370
MAIN ROUTE WITH WORKS	0.0341
'DIVERSION'	0.0045
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$45,080
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION



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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	1500	945	0	0.58	0	69.6	60.7	41.9
1-2 AM	518	0.0	1500	518	0	0.53	0	70.1	61.7	43.4
2-3 AM	402	0.0	1500	402	0	0.52	0	70.2	62.0	43.9
3-4 AM	311	0.0	1500	311	0	0.51	0	70.2	62.1	44.2
4-5 AM	434	0.0	1500	434	0	0.53	0	70.2	61.9	43.8
5-6 AM	735	0.0	1500	735	0	0.56	0	69.8	61.2	42.6
6-7 AM	1368	0.0	1499	1368	0	0.93	0	69.1	56.0	34.2
7-8 AM	1824	0.0	1500	1824	0	5.05	130	68.5	30.4	30.8
8-9 AM	2442	0.0	OFF	2442	0	0.17	14	67.7	65.0	65.0
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	1499	1843	683	13.21+	328	67.6	16.0	33.9
7-8 PM	2118	0.0	1499	1500	618	16.33+	399	68.1	13.5	30.8
8-9 PM	1901	0.0	1500	1515	386	16.28+	398	68.4	13.6	30.8
9-10 PM	1887	0.0	1500	1500	387	16.35+	400	68.4	13.5	30.8
10-11 PM	1678	0.0	1500	1547	131	16.14+	394	68.6	13.7	30.8
11PM-MID	1076	0.0	1499	1076	0	7.16	216	69.4	24.8	35.3

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

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

MAIN ROUTE WITHOUT WORKS	0.0366
MAIN ROUTE WITH WORKS	0.0339
'DIVERSION'	0.0037

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$45,677
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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