

STH 441: USH 10 TO CTH CE (OUTAGAMIE COUNTY) CONTINUOUS (24 HOUR) 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	119	0.0	1500	119	0	0.43	0	66.1	58.6	45.0	
1-2 AM	100	0.0	1500	100	0	0.43	0	66.2	58.6	45.1	
2-3 AM	86	0.0	1500	86	0	0.43	0	66.2	58.7	45.1	
3-4 AM	106	0.0	1500	106	0	0.43	0	66.2	58.6	45.1	
4-5 AM	288	0.0	1500	288	0	0.45	0	65.8	58.1	44.3	
5-6 AM	737	0.0	1500	737	0	0.49	0	65.0	56.8	42.6	
6-7 AM	1501	0.0	1499	1501	0	1.57	22	63.6	43.9	32.9	
7-8 AM	2190	0.0	1500	1853	337	12.66+	333	62.3	13.7	30.8	
8-9 AM	1373	0.0	1499	1281	92	13.30+	337	63.8	13.2	30.8	
9-10 AM	1054	0.0	1499	1054	0	1.95	60	64.4	41.1	39.0	
10-11 AM	1125	0.0	1500	1125	0	0.54	0	64.3	55.6	41.0	
11AM-NOON	1198	0.0	1500	1198	0	0.63	0	64.1	54.2	38.5	
NOON-1PM	1257	0.0	1500	1257	0	0.71	0	64.0	53.2	36.7	
1-2 PM	1350	0.0	1500	1350	0	0.83	0	63.9	51.5	34.2	
2-3 PM	1365	0.0	1499	1365	0	0.85	0	63.8	51.3	33.8	
3-4 PM	1631	0.0	1499	1631	0	2.79	54	63.3	35.2	30.8	
4-5 PM	1719	0.0	1500	1719	0	9.60	241	63.2	16.9	30.8	
5-6 PM	1581	0.0	1499	1538	44	15.44+	389	63.5	11.7	30.8	
6-7 PM	1150	0.0	1499	1150	0	8.50	237	64.3	18.6	33.7	
7-8 PM	764	0.0	1500	764	0	0.53	1	65.0	56.3	42.5	
8-9 PM	665	0.0	1500	665	0	0.49	0	65.1	57.0	42.9	
9-10 PM	572	0.0	1500	572	0	0.48	0	65.3	57.3	43.2	
10-11 PM	513	0.0	1500	513	0	0.47	0	65.5	57.4	43.5	
11PM-MID	319	0.0	1500	319	0	0.45	0	65.8	58.0	44.2	

+ 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

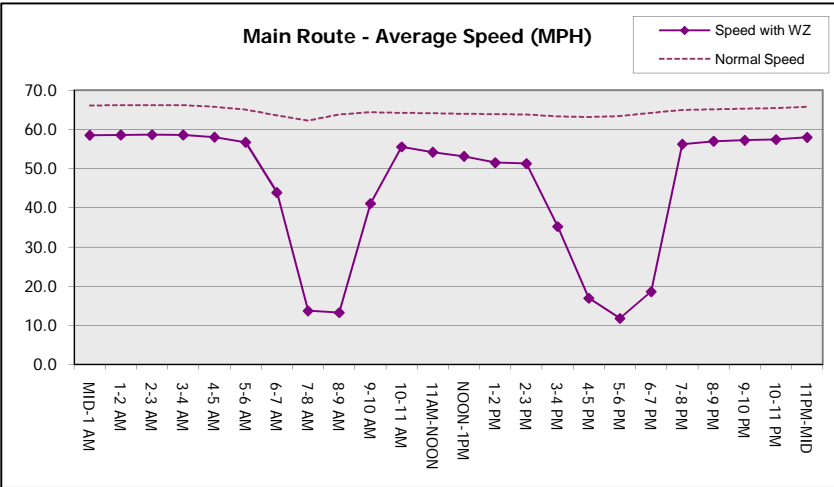
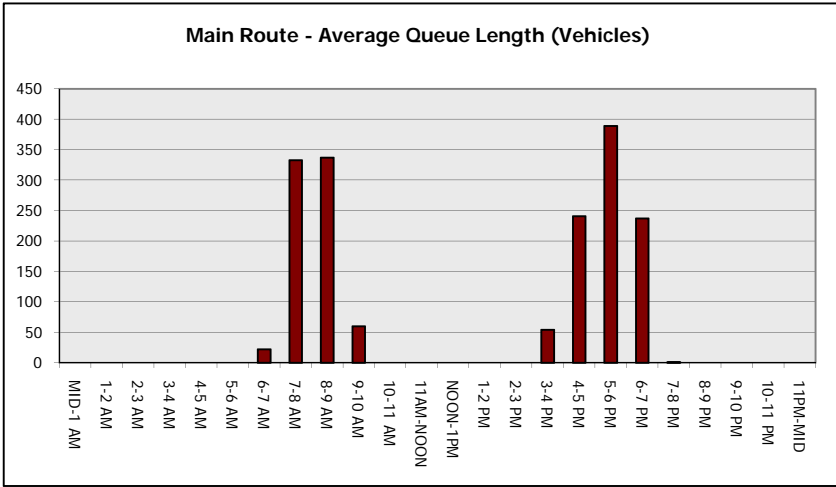
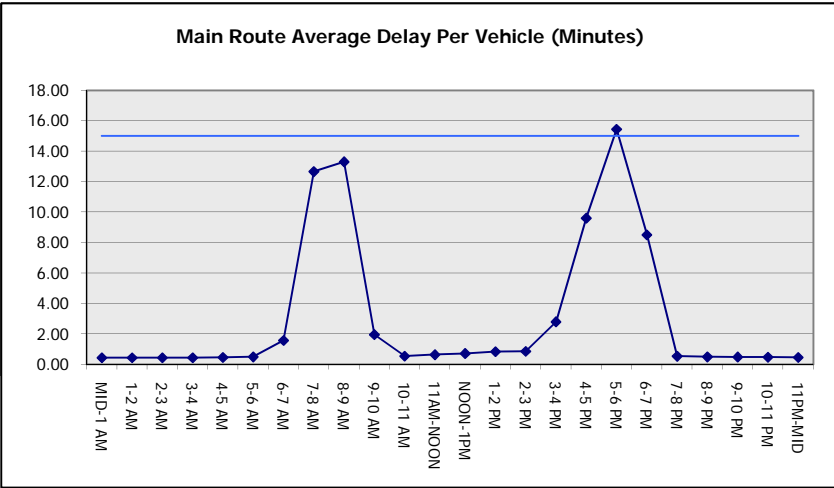
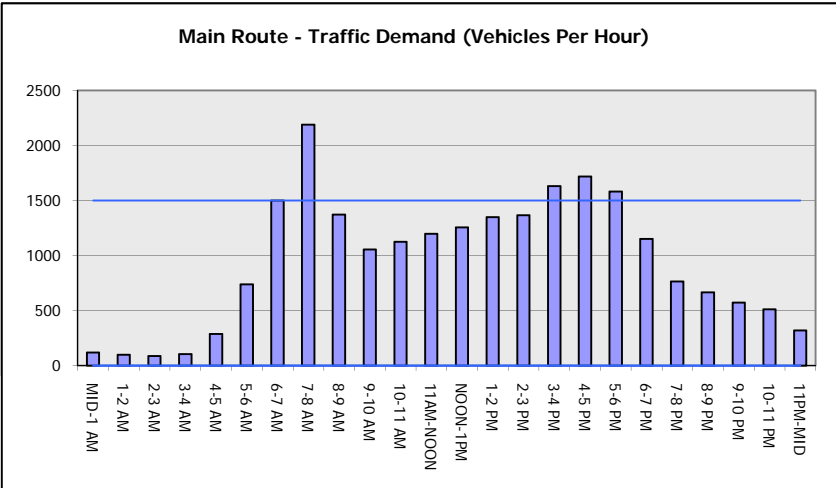
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0134
MAIN ROUTE WITH WORKS	0.0116
'DIVERSION'	0.0006
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$25,154
CONGESTED HOURS PER DAY*	3

*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	200	0.0	1500	200	0	0.44	0	66.0	58.3	44.7
1-2 AM	123	0.0	1500	123	0	0.43	0	66.1	58.6	45.0
2-3 AM	106	0.0	1500	106	0	0.43	0	66.2	58.6	45.1
3-4 AM	85	0.0	1500	85	0	0.43	0	66.2	58.7	45.1
4-5 AM	115	0.0	1500	115	0	0.43	0	66.2	58.6	45.0
5-6 AM	443	0.0	1500	443	0	0.47	0	65.6	57.6	43.7
6-7 AM	1224	0.0	1499	1224	0	0.70	0	64.1	53.3	37.3
7-8 AM	1791	0.0	1499	1791	0	5.54	143	63.0	24.5	30.8
8-9 AM	1304	0.0	1499	1304	0	8.59	215	64.0	18.4	31.6
9-10 AM	1097	0.0	1500	1097	0	0.85	11	64.3	51.6	40.8
10-11 AM	1234	0.0	1500	1234	0	0.68	0	64.1	53.5	37.4
11AM-NOON	1385	0.0	1500	1385	0	0.88	0	63.8	51.0	33.3
NOON-1PM	1444	0.0	1499	1444	0	0.95	0	63.7	50.0	32.0
1-2 PM	1565	0.0	1499	1565	0	1.59	17	63.5	43.7	30.9
2-3 PM	2073	0.0	1500	1785	288	10.61+	288	62.5	15.6	30.8
3-4 PM	2415	0.0	1499	1500	915	15.75+	399	61.8	11.5	30.8
4-5 PM	2756	0.0	1500	1500	1256	15.53+	400	58.2	11.5	30.8
5-6 PM	2374	0.0	1500	1500	874	15.76+	400	62.0	11.5	30.8
6-7 PM	1580	0.0	1500	1490	90	15.08+	379	63.5	11.9	30.8
7-8 PM	1101	0.0	1499	1101	0	5.08	169	64.3	26.0	35.6
8-9 PM	984	0.0	1500	984	0	0.52	0	64.5	56.1	41.7
9-10 PM	842	0.0	1500	842	0	0.50	0	64.8	56.5	42.2
10-11 PM	779	0.0	1500	779	0	0.50	0	65.0	56.7	42.5
11PM-MID	470	0.0	1500	470	0	0.47	0	65.5	57.6	43.6

+ 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	0.0162
MAIN ROUTE WITH WORKS	0.0126
'DIVERSION'	0.0047

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$44,942
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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