

**STH 441: CTH 00 TO CTH CE (OUTAGAMIE COUNTY)
NIGHTTIME CLOSURE
DIVERSION ROUTE: CTH CE - CTH N - CTH 00**

OCTOBER

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		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	167	0.0	42	0.0	1500	167	0	42	0.44	0	66.1	53.2	44.8	24.5	24.5
1-2 AM	122	0.0	33	0.0	1500	122	0	33	0.43	0	66.1	53.3	45.0	24.6	24.6
2-3 AM	115	0.0	32	0.0	1500	115	0	32	0.43	0	66.2	53.4	45.0	24.6	24.6
3-4 AM	105	0.0	33	0.0	1500	105	0	33	0.43	0	66.2	53.4	45.1	24.6	24.6
4-5 AM	196	0.0	118	0.0	1500	196	0	118	0.44	0	66.0	53.1	44.7	23.9	23.9
5-6 AM	388	0.0	300	0.0	OFF	388	0	300	0.00	0	65.6	65.6	65.6	22.5	22.5
6-7 AM	870	0.0	586	0.0	OFF	870	0	586	0.00	0	64.8	64.8	64.8	20.4	20.4
7-8 AM	1238	0.0	902	0.0	OFF	1238	0	902	0.00	0	64.1	64.1	64.1	17.9	17.9
8-9 AM	1323	0.0	591	0.0	OFF	1323	0	591	0.00	0	63.9	63.9	63.9	20.3	20.3
9-10 AM	1420	0.0	430	0.0	OFF	1420	0	430	0.00	0	63.7	63.7	63.7	21.5	21.5
10-11 AM	1473	0.0	441	0.0	OFF	1473	0	441	0.00	0	63.7	63.7	63.7	21.5	21.5
11A-NOON	1503	0.0	493	0.0	OFF	1503	0	493	0.00	0	63.6	63.6	63.6	21.1	21.1
NOON-1PM	1550	0.0	540	0.0	OFF	1550	0	540	0.00	0	63.5	63.5	63.5	20.7	20.7
1-2 PM	1734	0.0	571	0.0	OFF	1734	0	571	0.00	0	63.2	63.2	63.2	20.4	20.4
2-3 PM	1838	0.0	594	0.0	OFF	1838	0	594	0.00	0	63.0	63.0	63.0	20.3	20.3
3-4 PM	2032	0.0	697	0.0	OFF	2032	0	697	0.00	0	62.6	62.6	62.6	19.5	19.5
4-5 PM	2199	0.0	725	0.0	OFF	2199	0	725	0.00	0	62.3	62.3	62.3	19.3	19.3
5-6 PM	2085	0.0	668	0.0	OFF	2085	0	668	0.00	0	62.5	62.5	62.5	19.7	19.7
6-7 PM	2240	0.0	474	0.0	OFF	2240	0	474	0.00	0	62.2	62.2	62.2	21.2	21.2
7-8 PM	1453	0.0	304	0.0	1499	1453	0	304	1.70	24	63.7	33.5	33.0	22.5	22.5
8-9 PM	862	0.0	226	0.0	1500	862	0	226	0.51	0	64.8	50.9	42.2	23.1	23.1
9-10 PM	672	0.0	246	0.0	1500	672	0	246	0.49	0	65.1	51.5	42.8	23.0	23.0
10-11 PM	539	0.0	189	0.0	1500	539	0	189	0.47	0	65.4	51.9	43.3	23.4	23.4
11PM-MID	374	0.0	134	0.0	1500	374	0	134	0.46	0	65.7	52.5	44.0	23.8	23.8

"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
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0084
MAIN ROUTE WITH WORKS	0.0081
DIVERSION	0.0693

PIA: Personal Injury Accidents

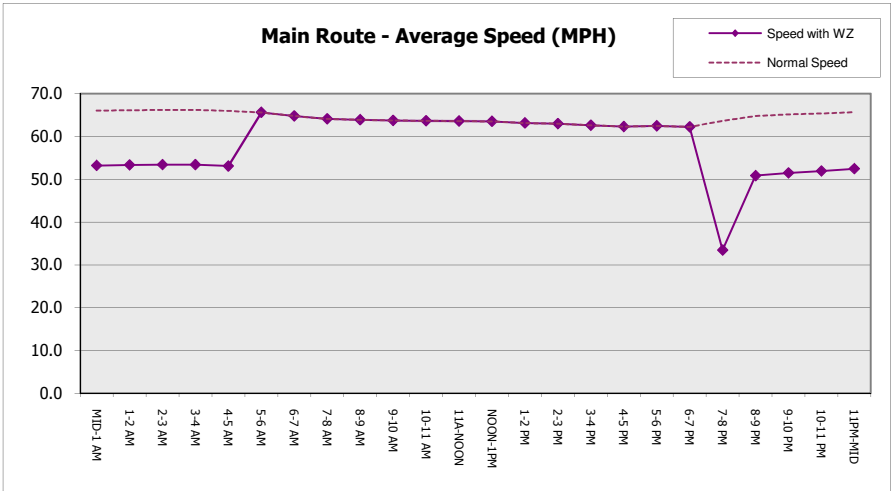
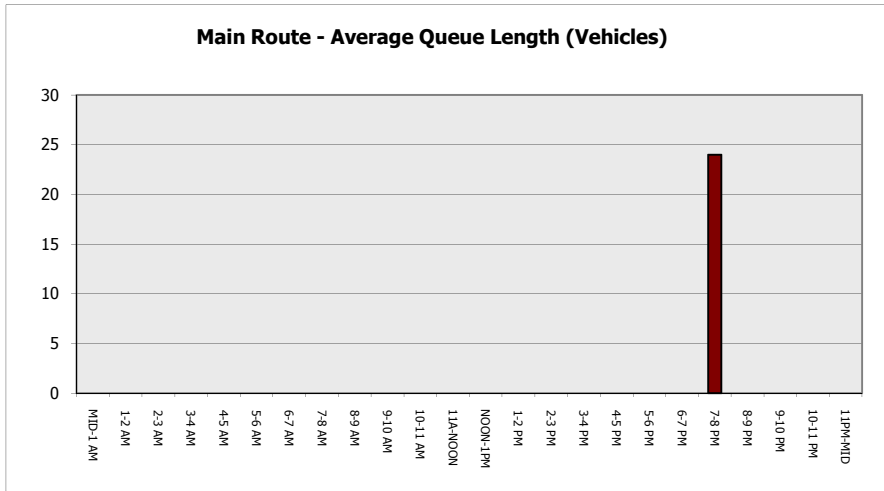
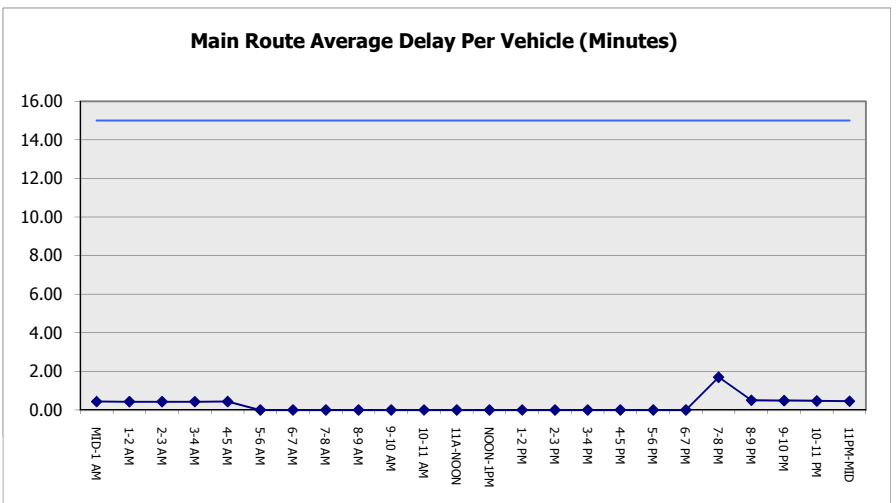
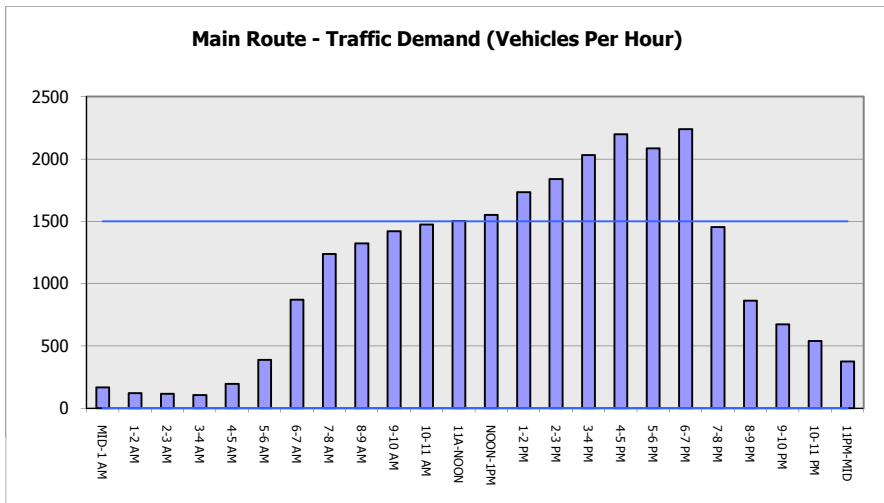
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$888
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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NIGHTTIME CLOSURE
DIVERSION ROUTE: CTH CE - CTH N - CTH 00**

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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		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	134	0.0	93	0.0	1500	134	0	93	0.44	0	66.1	53.3	45.0	24.2	24.2
1-2 AM	104	0.0	61	0.0	1500	104	0	61	0.43	0	66.2	53.5	45.1	24.3	24.3
2-3 AM	90	0.0	48	0.0	1500	90	0	48	0.43	0	66.2	53.5	45.1	24.5	24.5
3-4 AM	131	0.0	28	0.0	1500	131	0	28	0.44	0	66.1	53.3	45.0	24.7	24.7
4-5 AM	212	0.0	55	0.0	1500	212	0	55	0.44	0	66.0	53.0	44.6	24.4	24.4
5-6 AM	460	0.0	186	0.0	OFF	460	0	186	0.00	0	65.5	65.5	65.5	23.4	23.4
6-7 AM	811	0.0	478	0.0	OFF	811	0	478	0.00	0	64.9	64.9	64.9	21.2	21.2
7-8 AM	1037	0.0	754	0.0	OFF	1037	0	754	0.00	0	64.5	64.5	64.5	19.1	19.1
8-9 AM	900	0.0	584	0.0	OFF	900	0	584	0.00	0	64.7	64.7	64.7	20.4	20.4
9-10 AM	861	0.0	475	0.0	OFF	861	0	475	0.00	0	64.8	64.8	64.8	21.2	21.2
10-11 AM	928	0.0	515	0.0	OFF	928	0	515	0.00	0	64.6	64.6	64.6	20.9	20.9
11A-NOON	1038	0.0	598	0.0	OFF	1038	0	598	0.00	0	64.5	64.5	64.5	20.2	20.2
NOON-1PM	1166	0.0	630	0.0	OFF	1166	0	630	0.00	0	64.2	64.2	64.2	20.0	20.0
1-2 PM	1358	0.0	672	0.0	OFF	1358	0	672	0.00	0	63.8	63.8	63.8	19.7	19.7
2-3 PM	1594	0.0	855	0.0	OFF	1594	0	855	0.00	0	63.4	63.4	63.4	18.3	18.3
3-4 PM	1756	0.0	996	0.0	OFF	1756	0	996	0.00	0	63.1	63.1	63.1	17.2	17.2
4-5 PM	1882	0.0	1139	0.0	OFF	1882	0	1139	0.00	0	62.9	62.9	62.9	16.1	16.1
5-6 PM	1750	0.0	984	0.0	OFF	1750	0	984	0.00	0	63.2	63.2	63.2	17.3	17.3
6-7 PM	1359	0.0	693	0.0	OFF	1359	0	693	0.00	0	63.8	63.8	63.8	19.5	19.5
7-8 PM	1010	0.0	442	0.0	1500	1010	0	442	0.52	0	64.5	50.4	41.7	21.4	21.4
8-9 PM	755	0.0	370	0.0	1500	755	0	370	0.50	0	65.0	51.2	42.5	22.0	22.0
9-10 PM	507	0.0	329	0.0	1500	507	0	329	0.47	0	65.5	52.0	43.5	22.3	22.3
10-11 PM	563	0.0	299	0.0	1500	563	0	299	0.48	0	65.3	51.9	43.3	22.5	22.5
11PM-MID	455	0.0	198	0.0	1500	455	0	198	0.47	0	65.5	52.2	43.7	23.3	23.3

"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
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0066
MAIN ROUTE WITH WORKS	0.0064
DIVERSION	0.0850

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$429
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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NIGHTTIME CLOSURE
DIVERSION ROUTE: CTH CE - CTH N - CTH 00

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY NORTHBOUND DIRECTION

