

STH 441: USH 10 TO CTH CE (OUTAGAMIE COUNTY) OFF-PEAK DAY 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	152	0.0	OFF	152	0	0.00	0	66.1	66.1	66.1	
1-2 AM	109	0.0	OFF	109	0	0.00	0	66.2	66.2	66.2	
2-3 AM	90	0.0	OFF	90	0	0.00	0	66.2	66.2	66.2	
3-4 AM	112	0.0	OFF	112	0	0.00	0	66.2	66.2	66.2	
4-5 AM	312	0.0	OFF	312	0	0.00	0	65.8	65.8	65.8	
5-6 AM	768	0.0	OFF	768	0	0.00	0	65.0	65.0	65.0	
6-7 AM	1485	0.0	OFF	1485	0	0.00	0	63.6	63.6	63.6	
7-8 AM	1963	0.0	OFF	1963	0	0.00	0	62.7	62.7	62.7	
8-9 AM	1317	0.0	OFF	1317	0	0.00	0	64.0	64.0	64.0	
9-10 AM	1073	0.0	OFF	1073	0	0.00	0	64.4	64.4	64.4	
10-11 AM	1175	0.0	1500	1175	0	0.60	0	64.2	54.6	39.3	
11AM-NOON	1278	0.0	1500	1278	0	0.74	0	64.0	52.8	36.1	
NOON-1PM	1383	0.0	1500	1383	0	0.87	0	63.8	51.0	33.3	
1-2 PM	1480	0.0	1500	1480	0	1.00	0	63.7	49.4	31.2	
2-3 PM	1444	0.0	1499	1444	0	0.95	0	63.7	50.0	32.0	
3-4 PM	1509	0.0	OFF	1509	0	0.00	0	63.6	63.6	63.6	
4-5 PM	1684	0.0	OFF	1684	0	0.00	0	63.2	63.2	63.2	
5-6 PM	1594	0.0	OFF	1594	0	0.00	0	63.4	63.4	63.4	
6-7 PM	1180	0.0	OFF	1180	0	0.00	0	64.2	64.2	64.2	
7-8 PM	738	0.0	OFF	738	0	0.00	0	65.0	65.0	65.0	
8-9 PM	641	0.0	OFF	641	0	0.00	0	65.2	65.2	65.2	
9-10 PM	579	0.0	OFF	579	0	0.00	0	65.3	65.3	65.3	
10-11 PM	441	0.0	OFF	441	0	0.00	0	65.6	65.6	65.6	
11PM-MID	328	0.0	OFF	328	0	0.00	0	65.8	65.8	65.8	

"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

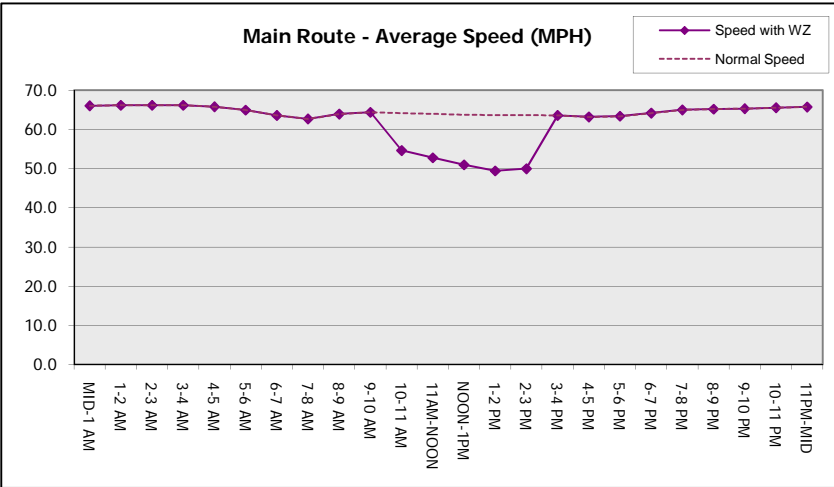
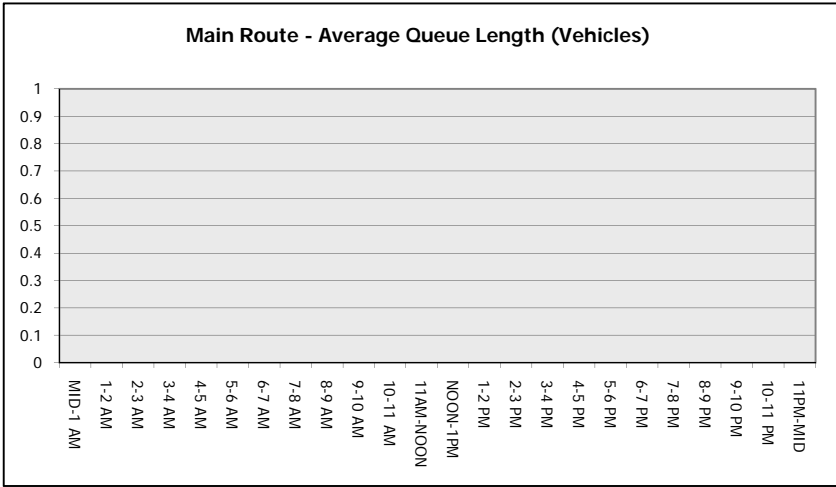
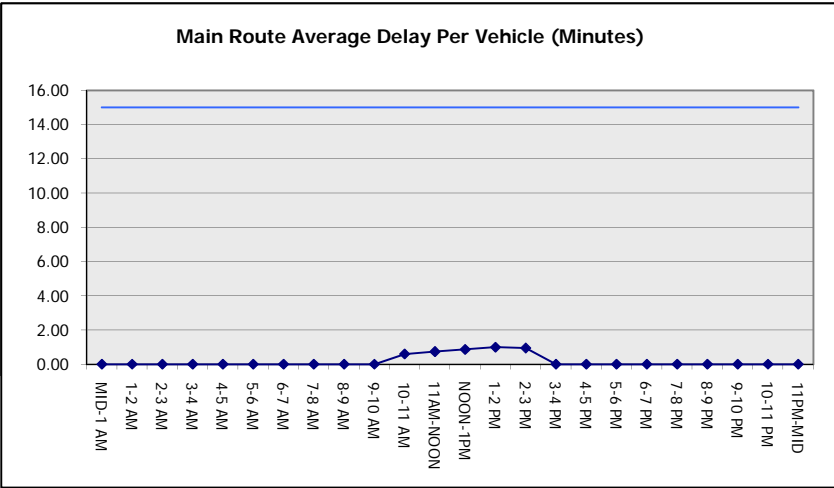
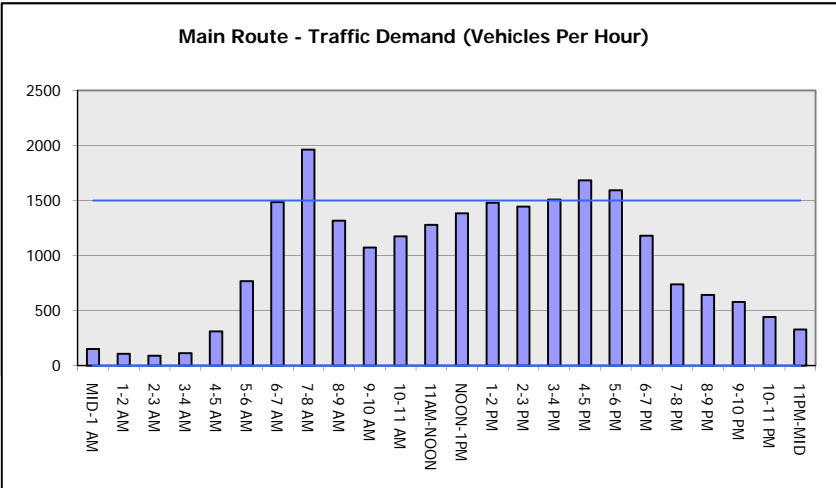
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0134
MAIN ROUTE WITH WORKS	0.0130
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,066
CONGESTED HOURS PER DAY*	0

*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	253	0.0	OFF	253	0	0.00	0	65.9	65.9	65.9
1-2 AM	211	0.0	OFF	211	0	0.00	0	66.0	66.0	66.0
2-3 AM	141	0.0	OFF	141	0	0.00	0	66.1	66.1	66.1
3-4 AM	106	0.0	OFF	106	0	0.00	0	66.2	66.2	66.2
4-5 AM	141	0.0	OFF	141	0	0.00	0	66.1	66.1	66.1
5-6 AM	480	0.0	OFF	480	0	0.00	0	65.5	65.5	65.5
6-7 AM	1164	0.0	OFF	1164	0	0.00	0	64.2	64.2	64.2
7-8 AM	1670	0.0	OFF	1670	0	0.00	0	63.3	63.3	63.3
8-9 AM	1216	0.0	OFF	1216	0	0.00	0	64.1	64.1	64.1
9-10 AM	1130	0.0	OFF	1130	0	0.00	0	64.3	64.3	64.3
10-11 AM	1241	0.0	1500	1241	0	0.69	0	64.1	53.4	37.2
11AM-NOON	1424	0.0	1499	1424	0	0.93	0	63.7	50.4	32.4
NOON-1PM	1531	0.0	1499	1531	0	1.32	8	63.5	46.1	30.8
1-2 PM	1644	0.0	1500	1644	0	3.90	84	63.3	29.9	30.8
2-3 PM	2111	0.0	1500	1772	340	13.77+	355	62.5	12.8	30.8
3-4 PM	2187	0.0	OFF	2187	0	0.99	54	62.3	48.7	48.7
4-5 PM	2512	0.0	OFF	2512	0	0.00	0	60.8	60.8	60.8
5-6 PM	2105	0.0	OFF	2105	0	0.00	0	62.5	62.5	62.5
6-7 PM	1531	0.0	OFF	1531	0	0.00	0	63.5	63.5	63.5
7-8 PM	1132	0.0	OFF	1132	0	0.00	0	64.3	64.3	64.3
8-9 PM	1009	0.0	OFF	1009	0	0.00	0	64.5	64.5	64.5
9-10 PM	971	0.0	OFF	971	0	0.00	0	64.6	64.6	64.6
10-11 PM	804	0.0	OFF	804	0	0.00	0	64.9	64.9	64.9
11PM-MID	619	0.0	OFF	619	0	0.00	0	65.2	65.2	65.2

"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	0.0161
MAIN ROUTE WITH WORKS	0.0154
'DIVERSION'	0.0005

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$7,821
CONGESTED HOURS PER DAY*	1

*Delays Exceeding User-Specified Maximum

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