

STH 441: RACINE ST TO USH 10 (CALUMET AND OUTAGAMIE COUNTIES) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY WESTBOUND 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	140	0.0	1500	140	0	0.44	0	66.1	56.4	44.9
1-2 AM	115	0.0	1500	115	0	0.43	0	66.2	56.5	45.0
2-3 AM	101	0.0	1500	101	0	0.43	0	66.2	56.6	45.1
3-4 AM	124	0.0	1500	124	0	0.43	0	66.1	56.5	45.0
4-5 AM	336	0.0	1500	336	0	0.46	0	65.8	55.8	44.2
5-6 AM	860	0.0	OFF	860	0	0.00	0	64.8	64.8	64.8
6-7 AM	1750	0.0	OFF	1750	0	0.00	0	63.2	63.2	63.2
7-8 AM	2552	0.0	OFF	2552	0	0.00	0	60.4	60.4	60.4
8-9 AM	1601	0.0	OFF	1601	0	0.00	0	63.4	63.4	63.4
9-10 AM	1229	0.0	OFF	1229	0	0.00	0	64.1	64.1	64.1
10-11 AM	1311	0.0	OFF	1311	0	0.00	0	64.0	64.0	64.0
11AM-NOON	1396	0.0	OFF	1396	0	0.00	0	63.8	63.8	63.8
NOON-1PM	1465	0.0	OFF	1465	0	0.00	0	63.7	63.7	63.7
1-2 PM	1573	0.0	OFF	1573	0	0.00	0	63.5	63.5	63.5
2-3 PM	1591	0.0	OFF	1591	0	0.00	0	63.4	63.4	63.4
3-4 PM	1900	0.0	OFF	1900	0	0.00	0	62.8	62.8	62.8
4-5 PM	2004	0.0	OFF	2004	0	0.00	0	62.7	62.7	62.7
5-6 PM	1843	0.0	OFF	1843	0	0.00	0	63.0	63.0	63.0
6-7 PM	1340	0.0	OFF	1340	0	0.00	0	63.9	63.9	63.9
7-8 PM	890	0.0	1500	890	0	0.51	0	64.7	54.2	42.0
8-9 PM	775	0.0	1500	775	0	0.50	0	65.0	54.5	42.5
9-10 PM	667	0.0	1500	667	0	0.49	0	65.1	54.8	42.8
10-11 PM	598	0.0	1500	598	0	0.48	0	65.3	55.0	43.2
11PM-MID	372	0.0	1500	372	0	0.46	0	65.7	55.7	44.0

"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

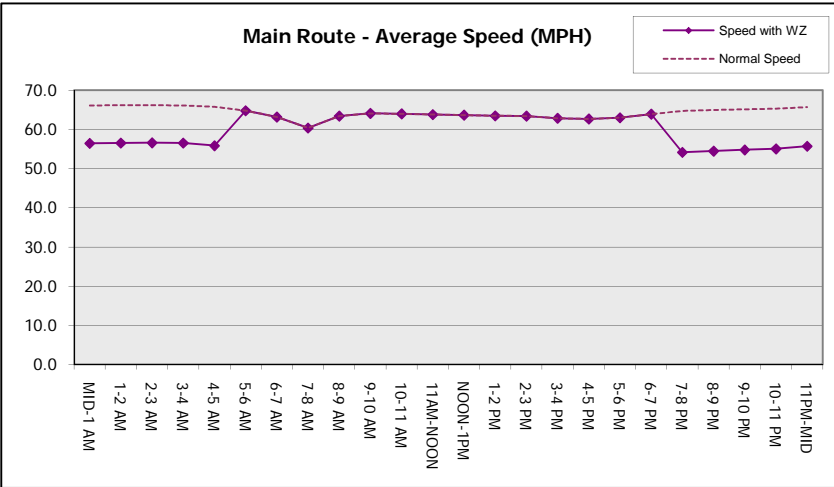
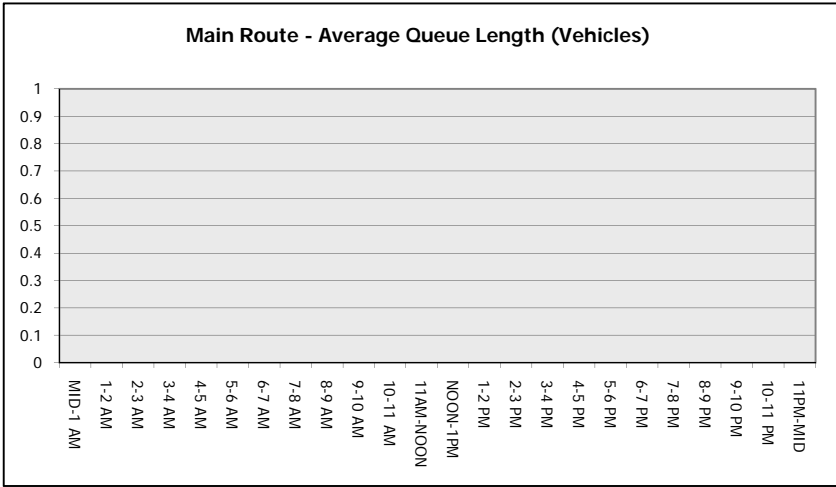
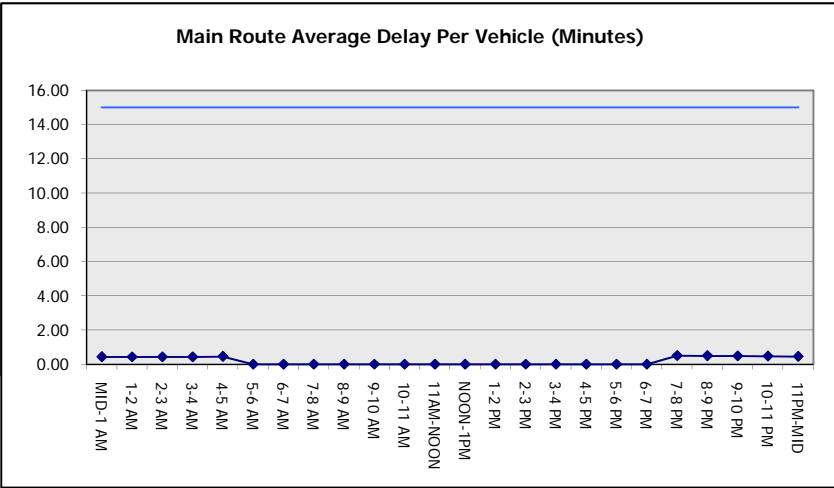
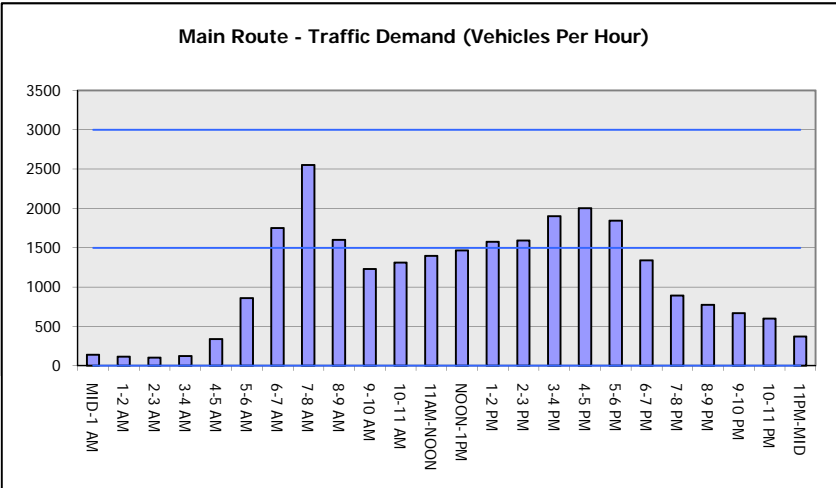
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0118
MAIN ROUTE WITH WORKS	0.0116
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$431
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY EASTBOUND 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	233	0.0	1500	233	0	0.45	0	66.0	56.1	44.5
1-2 AM	143	0.0	1500	143	0	0.44	0	66.1	56.4	44.9
2-3 AM	124	0.0	1500	124	0	0.43	0	66.1	56.5	45.0
3-4 AM	100	0.0	1500	100	0	0.43	0	66.2	56.6	45.1
4-5 AM	135	0.0	1500	135	0	0.44	0	66.1	56.4	45.0
5-6 AM	516	0.0	OFF	516	0	0.00	0	65.5	65.5	65.5
6-7 AM	1427	0.0	OFF	1427	0	0.00	0	63.7	63.7	63.7
7-8 AM	2089	0.0	OFF	2089	0	0.00	0	62.5	62.5	62.5
8-9 AM	1519	0.0	OFF	1519	0	0.00	0	63.5	63.5	63.5
9-10 AM	1280	0.0	OFF	1280	0	0.00	0	64.0	64.0	64.0
10-11 AM	1439	0.0	OFF	1439	0	0.00	0	63.7	63.7	63.7
11AM-NOON	1614	0.0	OFF	1614	0	0.00	0	63.4	63.4	63.4
NOON-1PM	1683	0.0	OFF	1683	0	0.00	0	63.3	63.3	63.3
1-2 PM	1824	0.0	OFF	1824	0	0.00	0	63.0	63.0	63.0
2-3 PM	2417	0.0	OFF	2417	0	0.00	0	61.7	61.7	61.7
3-4 PM	2814	0.0	OFF	2814	0	0.00	0	57.7	57.7	57.7
4-5 PM	3212	0.0	OFF	3212	0	0.00	0	53.6	53.6	53.6
5-6 PM	2767	0.0	OFF	2767	0	0.00	0	58.1	58.1	58.1
6-7 PM	1842	0.0	OFF	1842	0	0.00	0	63.0	63.0	63.0
7-8 PM	1285	0.0	1500	1285	0	0.75	0	64.0	49.8	35.9
8-9 PM	1147	0.0	1500	1147	0	0.57	0	64.3	52.8	40.2
9-10 PM	982	0.0	1500	982	0	0.52	0	64.6	53.8	41.7
10-11 PM	908	0.0	1500	908	0	0.51	0	64.7	54.1	42.0
11PM-MID	549	0.0	1500	549	0	0.48	0	65.4	55.1	43.3

"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	0.0143
MAIN ROUTE WITH WORKS	0.0139
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$689
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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FRIDAY EASTBOUND DIRECTION

