

STH 441: RACINE ST TO USH 10 (CALUMET AND OUTAGAMIE COUNTIES) OFF-PEAK DAY 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	OFF	140	0	0.00	0	66.1	66.1	66.1
1-2 AM	115	0.0	OFF	115	0	0.00	0	66.2	66.2	66.2
2-3 AM	101	0.0	OFF	101	0	0.00	0	66.2	66.2	66.2
3-4 AM	124	0.0	OFF	124	0	0.00	0	66.1	66.1	66.1
4-5 AM	336	0.0	OFF	336	0	0.00	0	65.8	65.8	65.8
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	1500	1311	0	0.78	0	64.0	49.3	35.2
11AM-NOON	1396	0.0	1500	1396	0	0.89	0	63.8	47.7	33.1
NOON-1PM	1465	0.0	1499	1465	0	0.98	0	63.7	46.5	31.5
1-2 PM	1573	0.0	1499	1573	0	2.13	32	63.5	35.1	30.8
2-3 PM	1591	0.0	1499	1591	0	4.94	108	63.4	22.2	30.8
3-4 PM	1900	0.0	OFF	1900	0	0.11	6	62.8	60.4	60.4
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	OFF	890	0	0.00	0	64.7	64.7	64.7
8-9 PM	775	0.0	OFF	775	0	0.00	0	65.0	65.0	65.0
9-10 PM	667	0.0	OFF	667	0	0.00	0	65.1	65.1	65.1
10-11 PM	598	0.0	OFF	598	0	0.00	0	65.3	65.3	65.3
11PM-MID	372	0.0	OFF	372	0	0.00	0	65.7	65.7	65.7

"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	0.0113
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$3,135
CONGESTED HOURS PER DAY*	0

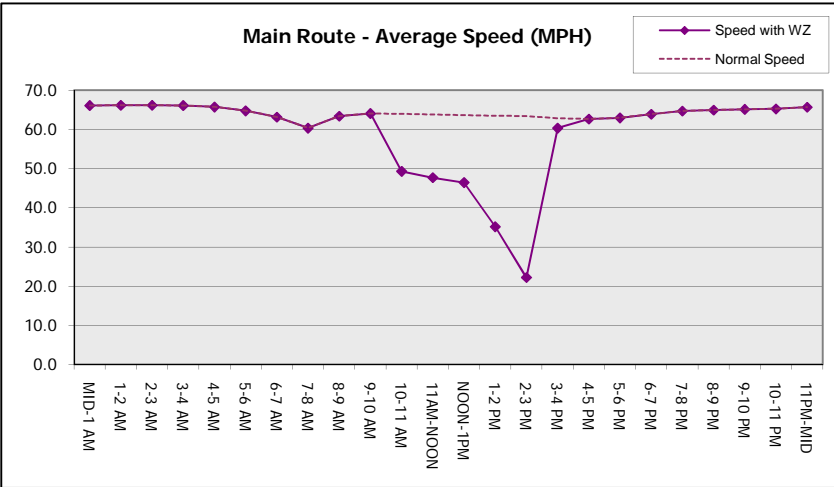
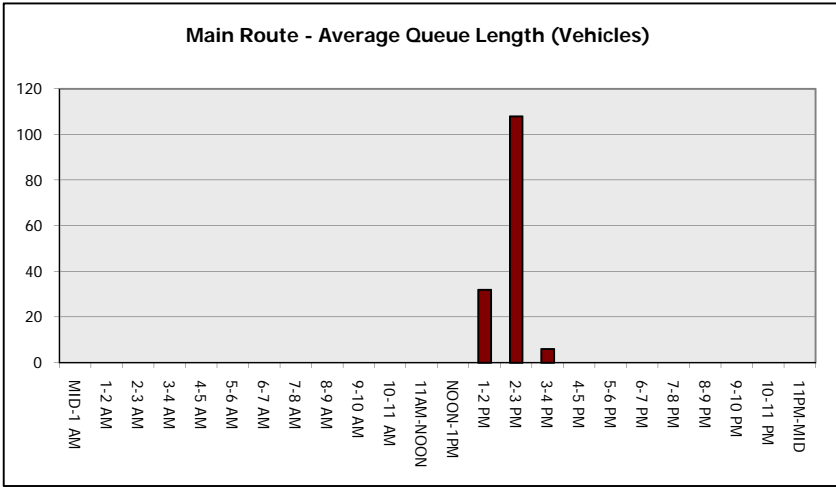
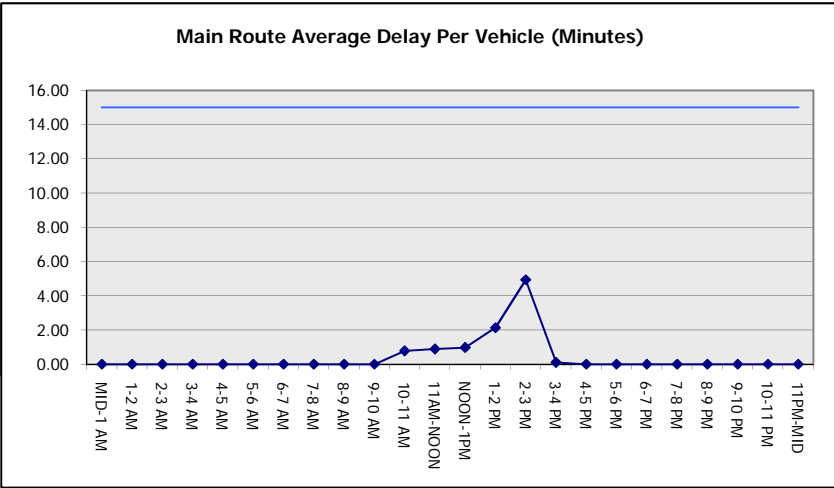
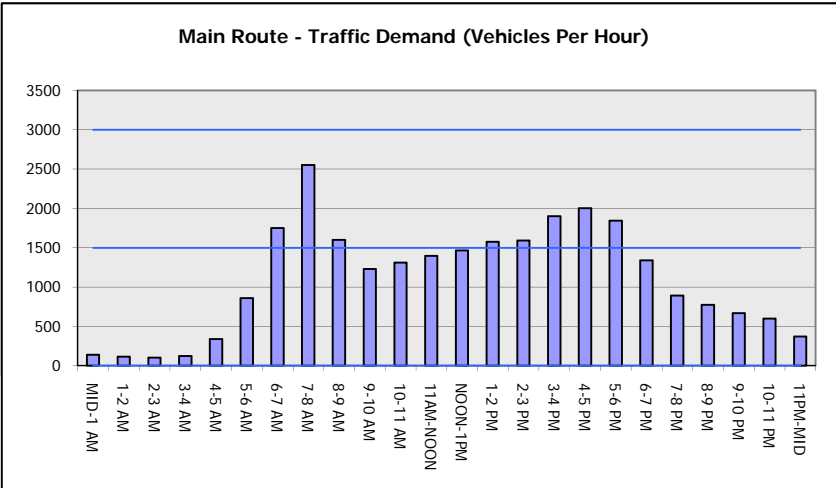
*Delays Exceeding User-Specified Maximum

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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	OFF	233	0	0.00	0	66.0	66.0	66.0
1-2 AM	143	0.0	OFF	143	0	0.00	0	66.1	66.1	66.1
2-3 AM	124	0.0	OFF	124	0	0.00	0	66.1	66.1	66.1
3-4 AM	100	0.0	OFF	100	0	0.00	0	66.2	66.2	66.2
4-5 AM	135	0.0	OFF	135	0	0.00	0	66.1	66.1	66.1
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	1499	1439	0	0.94	0	63.7	46.9	32.1
11AM-NOON	1614	0.0	1499	1614	0	2.64	49	63.4	31.7	30.8
NOON-1PM	1683	0.0	1500	1683	0	8.09	199	63.3	15.6	30.8
1-2 PM	1824	0.0	1500	1616	208	15.18+	384	63.0	10.2	30.8
2-3 PM	2417	0.0	1499	1500	917	16.29+	414	61.7	9.9	30.8
3-4 PM	2814	0.0	OFF	2814	0	1.31	72	57.7	39.7	39.7
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	OFF	1285	0	0.00	0	64.0	64.0	64.0
8-9 PM	1147	0.0	OFF	1147	0	0.00	0	64.3	64.3	64.3
9-10 PM	982	0.0	OFF	982	0	0.00	0	64.6	64.6	64.6
10-11 PM	908	0.0	OFF	908	0	0.00	0	64.7	64.7	64.7
11PM-MID	549	0.0	OFF	549	0	0.00	0	65.4	65.4	65.4

"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 (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	0.0133
'DIVERSION'	0.0012

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$18,653
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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FRIDAY EASTBOUND DIRECTION

