

STH 441: RACINE ST TO USH 10 (CALUMET AND OUTAGAMIE COUNTIES) CONTINUOUS (24 HOUR) 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	1500	860	0	0.51	0	64.8	54.2	42.2
6-7 AM	1750	0.0	1499	1750	0	2.81	72	63.2	30.7	30.8
7-8 AM	2552	0.0	1499	1652	900	15.73+	402	60.4	10.1	30.8
8-9 AM	1601	0.0	1500	1468	133	15.83+	399	63.4	10.1	30.8
9-10 AM	1229	0.0	1499	1229	0	9.39	244	64.1	14.2	31.7
10-11 AM	1311	0.0	1500	1311	0	1.49	23	64.0	40.8	34.1
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	1500	1722	178	12.63+	327	62.8	11.6	30.8
4-5 PM	2004	0.0	1499	1502	502	16.31+	413	62.7	9.9	30.8
5-6 PM	1843	0.0	1500	1502	341	16.32+	413	63.0	9.9	30.8
6-7 PM	1340	0.0	1500	1340	0	13.52+	340	63.9	11.0	30.8
7-8 PM	890	0.0	1500	890	0	1.47	49	64.7	41.4	41.4
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

+ 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

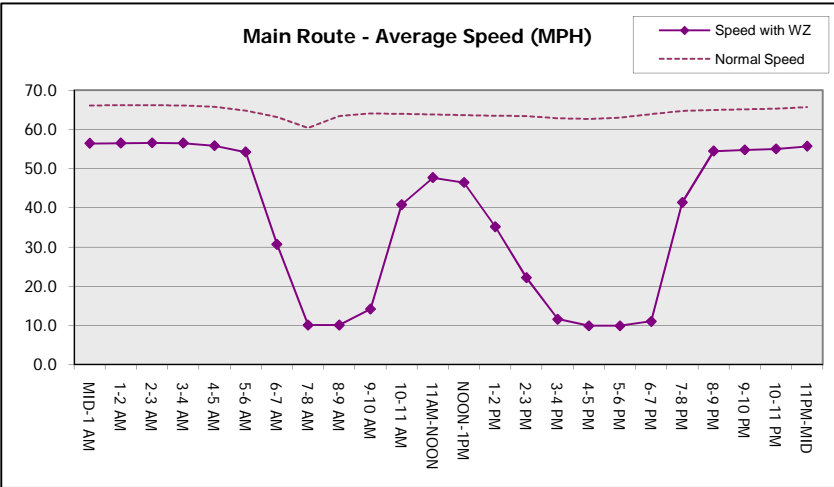
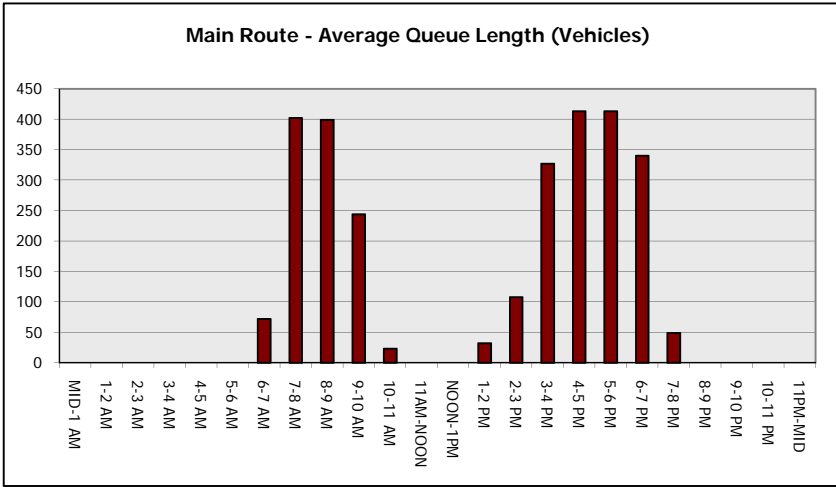
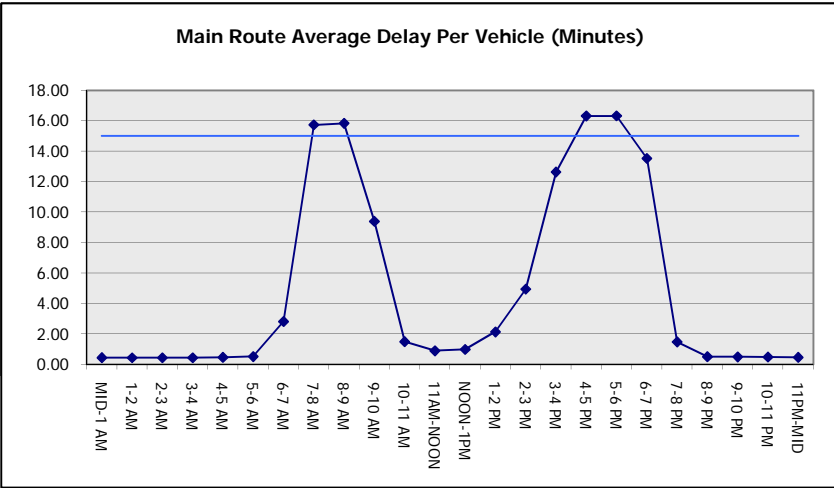
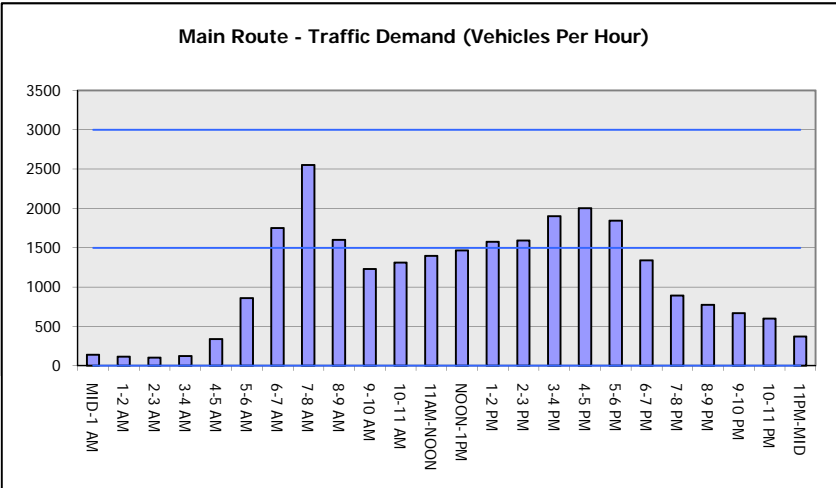
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0118
MAIN ROUTE WITH WORKS	0.0093
'DIVERSION'	0.0021
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$46,076
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



STH 441: RACINE ST TO USH 10 (CALUMET AND OUTAGAMIE COUNTIES) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
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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	1500	516	0	0.47	0	65.5	55.3	43.5
6-7 AM	1427	0.0	1499	1427	0	1.28	15	63.7	42.9	34.2
7-8 AM	2089	0.0	1500	1791	297	11.40+	309	62.5	12.6	30.8
8-9 AM	1519	0.0	1500	1519	0	15.39+	387	63.5	10.2	30.8
9-10 AM	1280	0.0	1499	1280	0	10.48	264	64.0	13.0	30.8
10-11 AM	1439	0.0	1500	1439	0	5.09	110	63.7	21.7	30.8
11AM-NOON	1614	0.0	1500	1614	0	6.07	140	63.4	19.3	30.8
NOON-1PM	1683	0.0	1500	1683	0	11.55	289	63.3	12.1	30.8
1-2 PM	1824	0.0	1499	1502	322	16.32+	413	63.0	9.9	30.8
2-3 PM	2417	0.0	1500	1505	912	16.30+	414	61.7	9.9	30.8
3-4 PM	2814	0.0	1500	1514	1301	16.18+	417	57.7	9.9	30.8
4-5 PM	3212	0.0	1499	1502	1709	16.11+	422	53.6	9.8	30.8
5-6 PM	2767	0.0	1500	1503	1264	16.19+	416	58.1	9.9	30.8
6-7 PM	1842	0.0	1500	1500	342	16.32+	413	63.0	9.9	30.8
7-8 PM	1285	0.0	1499	1285	0	12.92+	328	64.0	11.4	30.9
8-9 PM	1147	0.0	1499	1147	0	1.99	62	64.3	36.5	37.6
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

+ 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	0.0098
'DIVERSION'	0.0063

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$80,762
CONGESTED HOURS PER DAY*	9

*Delays Exceeding User-Specified Maximum

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FRIDAY EASTBOUND DIRECTION

