

STH 441: RACINE ST TO USH 10 (CALUMET AND OUTAGAMIE COUNTIES) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	133	0.0	OFF	133	0	0.00	0	66.1	66.1	66.1	
1-2 AM	91	0.0	OFF	91	0	0.00	0	66.2	66.2	66.2	
2-3 AM	78	0.0	OFF	78	0	0.00	0	66.3	66.3	66.3	
3-4 AM	118	0.0	OFF	118	0	0.00	0	66.1	66.1	66.1	
4-5 AM	354	0.0	OFF	354	0	0.00	0	65.7	65.7	65.7	
5-6 AM	1004	0.0	OFF	1004	0	0.00	0	64.5	64.5	64.5	
6-7 AM	1821	0.0	OFF	1821	0	0.00	0	63.0	63.0	63.0	
7-8 AM	2445	0.0	OFF	2445	0	0.00	0	61.5	61.5	61.5	
8-9 AM	1514	0.0	OFF	1514	0	0.00	0	63.6	63.6	63.6	
9-10 AM	1203	0.0	OFF	1203	0	0.00	0	64.1	64.1	64.1	
10-11 AM	1226	0.0	1500	1226	0	0.67	0	64.1	51.0	37.6	
11AM-NOON	1304	0.0	1500	1304	0	0.77	0	64.0	49.4	35.4	
NOON-1PM	1410	0.0	1499	1410	0	0.91	0	63.8	47.4	32.7	
1-2 PM	1537	0.0	1499	1537	0	1.55	15	63.5	40.1	30.8	
2-3 PM	1520	0.0	1499	1520	0	2.63	43	63.5	31.9	30.8	
3-4 PM	1652	0.0	OFF	1652	0	0.01	0	63.3	63.0	63.0	
4-5 PM	1923	0.0	OFF	1923	0	0.00	0	62.8	62.8	62.8	
5-6 PM	1884	0.0	OFF	1884	0	0.00	0	62.8	62.8	62.8	
6-7 PM	1253	0.0	OFF	1253	0	0.00	0	64.0	64.0	64.0	
7-8 PM	839	0.0	OFF	839	0	0.00	0	64.8	64.8	64.8	
8-9 PM	743	0.0	OFF	743	0	0.00	0	65.0	65.0	65.0	
9-10 PM	602	0.0	OFF	602	0	0.00	0	65.3	65.3	65.3	
10-11 PM	487	0.0	OFF	487	0	0.00	0	65.5	65.5	65.5	
11PM-MID	322	0.0	OFF	322	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

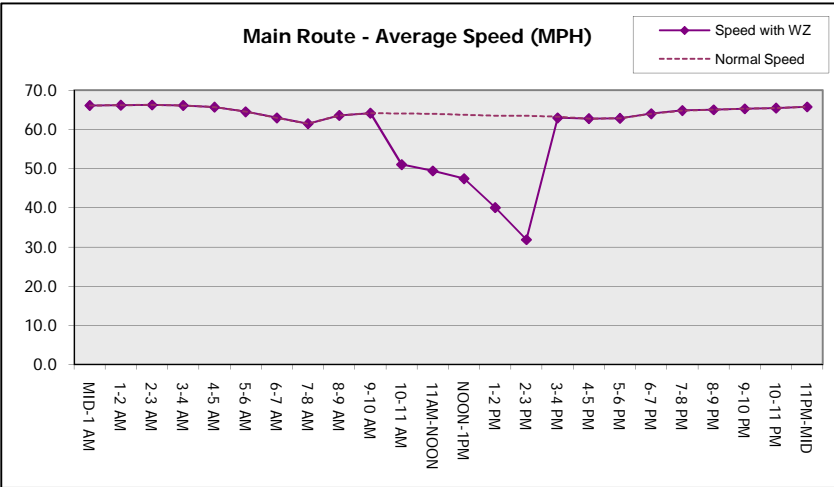
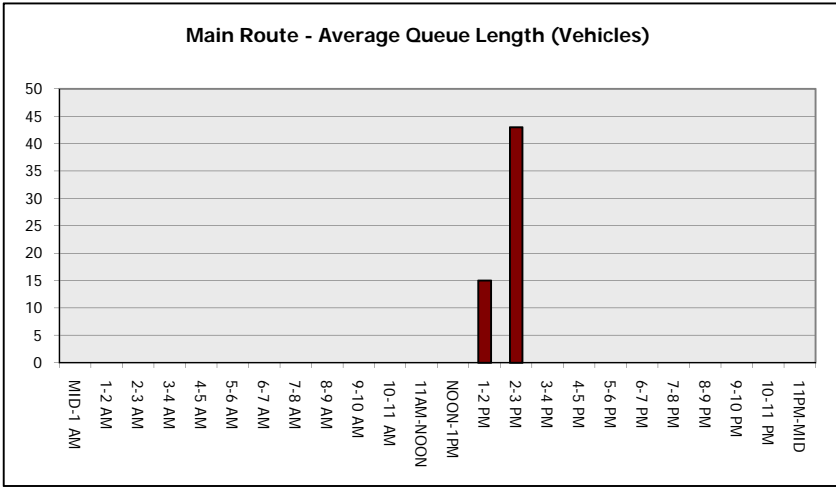
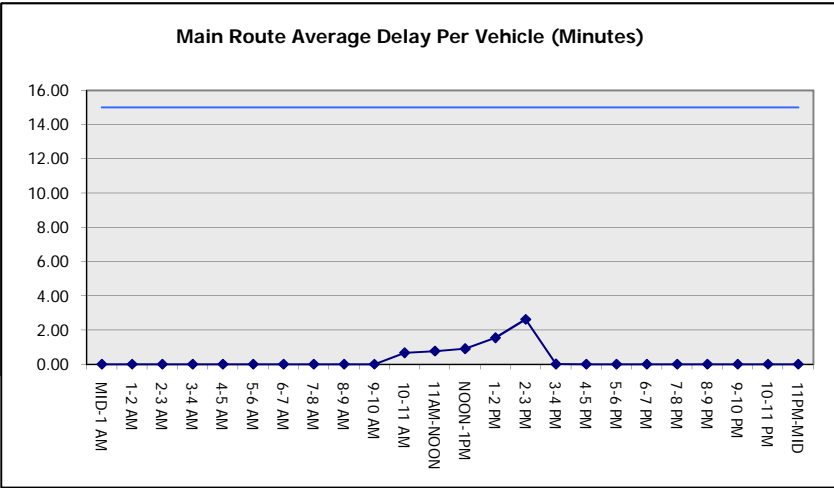
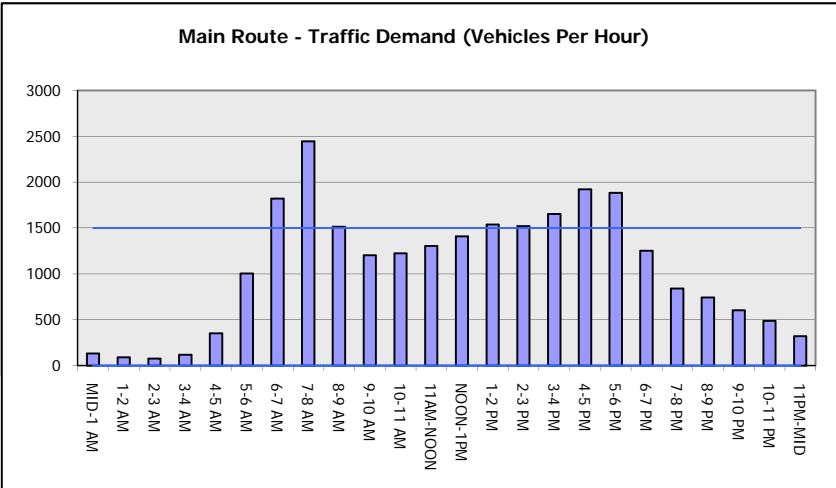
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0114
MAIN ROUTE WITH WORKS	0.0109
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,745
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR WESTBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	239	0.0	OFF	239	0	0.00	0	66.0	66.0	66.0
1-2 AM	153	0.0	OFF	153	0	0.00	0	66.1	66.1	66.1
2-3 AM	131	0.0	OFF	131	0	0.00	0	66.1	66.1	66.1
3-4 AM	92	0.0	OFF	92	0	0.00	0	66.2	66.2	66.2
4-5 AM	168	0.0	OFF	168	0	0.00	0	66.1	66.1	66.1
5-6 AM	588	0.0	OFF	588	0	0.00	0	65.3	65.3	65.3
6-7 AM	1480	0.0	OFF	1480	0	0.00	0	63.7	63.7	63.7
7-8 AM	2059	0.0	OFF	2059	0	0.00	0	62.5	62.5	62.5
8-9 AM	1473	0.0	OFF	1473	0	0.00	0	63.7	63.7	63.7
9-10 AM	1286	0.0	OFF	1286	0	0.00	0	64.0	64.0	64.0
10-11 AM	1317	0.0	1500	1317	0	0.79	0	64.0	49.2	35.1
11AM-NOON	1463	0.0	1499	1463	0	0.98	0	63.7	46.5	31.5
NOON-1PM	1554	0.0	1499	1554	0	1.76	21	63.5	38.1	30.8
1-2 PM	1644	0.0	1499	1644	0	4.71	106	63.3	22.8	30.8
2-3 PM	2184	0.0	1500	1783	401	14.76+	379	62.3	10.5	30.8
3-4 PM	2483	0.0	OFF	2483	0	1.39	76	61.0	40.6	40.6
4-5 PM	3202	0.0	OFF	3202	0	0.00	0	53.7	53.7	53.7
5-6 PM	2759	0.0	OFF	2759	0	0.00	0	58.2	58.2	58.2
6-7 PM	1803	0.0	OFF	1803	0	0.00	0	63.0	63.0	63.0
7-8 PM	1264	0.0	OFF	1264	0	0.00	0	64.0	64.0	64.0
8-9 PM	1175	0.0	OFF	1175	0	0.00	0	64.2	64.2	64.2
9-10 PM	933	0.0	OFF	933	0	0.00	0	64.6	64.6	64.6
10-11 PM	786	0.0	OFF	786	0	0.00	0	64.9	64.9	64.9
11PM-MID	504	0.0	OFF	504	0	0.00	0	65.5	65.5	65.5

"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	0.0137
MAIN ROUTE WITH WORKS	0.0130
'DIVERSION'	0.0004

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$8,932
CONGESTED HOURS PER DAY*	1

*Delays Exceeding User-Specified Maximum

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MON-THUR EASTBOUND DIRECTION

