

STH 441: RACINE ST TO USH 10 (CALUMET AND OUTAGAMIE COUNTIES) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	177	0.0	1500	177	0	0.44	0	66.1	56.3	44.8
1-2 AM	128	0.0	1500	128	0	0.43	0	66.1	56.4	45.0
2-3 AM	104	0.0	1500	104	0	0.43	0	66.2	56.6	45.1
3-4 AM	131	0.0	1500	131	0	0.44	0	66.1	56.4	45.0
4-5 AM	363	0.0	1500	363	0	0.46	0	65.7	55.7	44.0
5-6 AM	895	0.0	OFF	895	0	0.00	0	64.7	64.7	64.7
6-7 AM	1731	0.0	OFF	1731	0	0.00	0	63.2	63.2	63.2
7-8 AM	2288	0.0	OFF	2288	0	0.00	0	62.1	62.1	62.1
8-9 AM	1535	0.0	OFF	1535	0	0.00	0	63.5	63.5	63.5
9-10 AM	1250	0.0	OFF	1250	0	0.00	0	64.1	64.1	64.1
10-11 AM	1369	0.0	OFF	1369	0	0.00	0	63.8	63.8	63.8
11AM-NOON	1490	0.0	OFF	1490	0	0.00	0	63.6	63.6	63.6
NOON-1PM	1612	0.0	OFF	1612	0	0.00	0	63.4	63.4	63.4
1-2 PM	1726	0.0	OFF	1726	0	0.00	0	63.2	63.2	63.2
2-3 PM	1683	0.0	OFF	1683	0	0.00	0	63.3	63.3	63.3
3-4 PM	1759	0.0	OFF	1759	0	0.00	0	63.1	63.1	63.1
4-5 PM	1963	0.0	OFF	1963	0	0.00	0	62.7	62.7	62.7
5-6 PM	1858	0.0	OFF	1858	0	0.00	0	62.9	62.9	62.9
6-7 PM	1375	0.0	OFF	1375	0	0.00	0	63.8	63.8	63.8
7-8 PM	860	0.0	1500	860	0	0.51	0	64.8	54.2	42.2
8-9 PM	747	0.0	1500	747	0	0.49	0	65.0	54.5	42.6
9-10 PM	674	0.0	1500	674	0	0.49	0	65.1	54.8	42.8
10-11 PM	514	0.0	1500	514	0	0.47	0	65.5	55.3	43.5
11PM-MID	383	0.0	1500	383	0	0.46	0	65.7	55.6	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

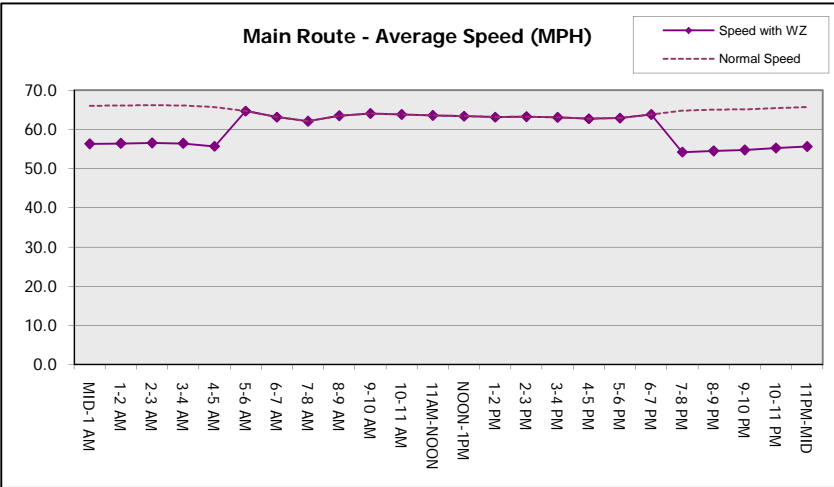
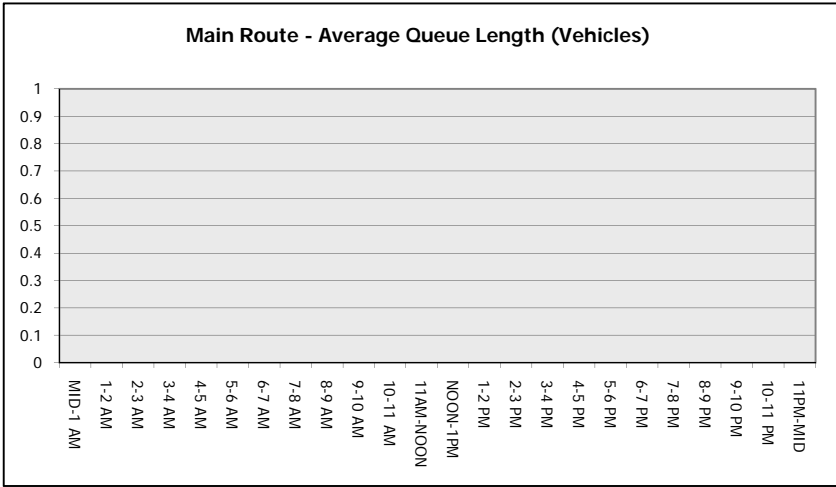
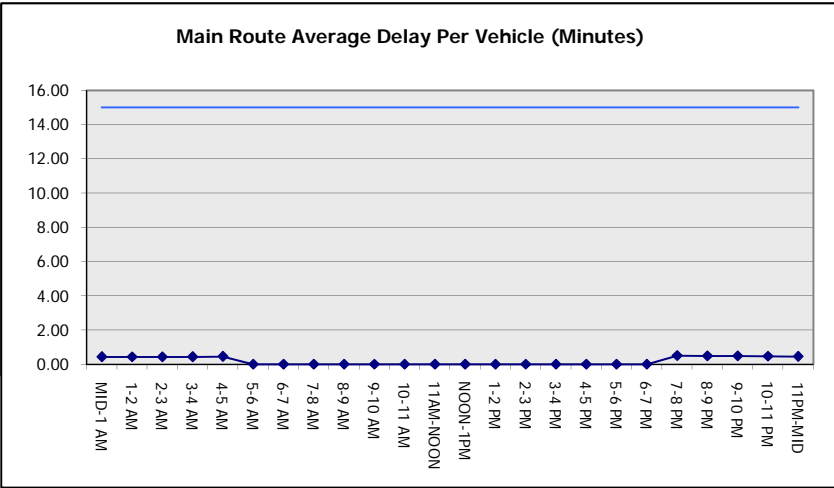
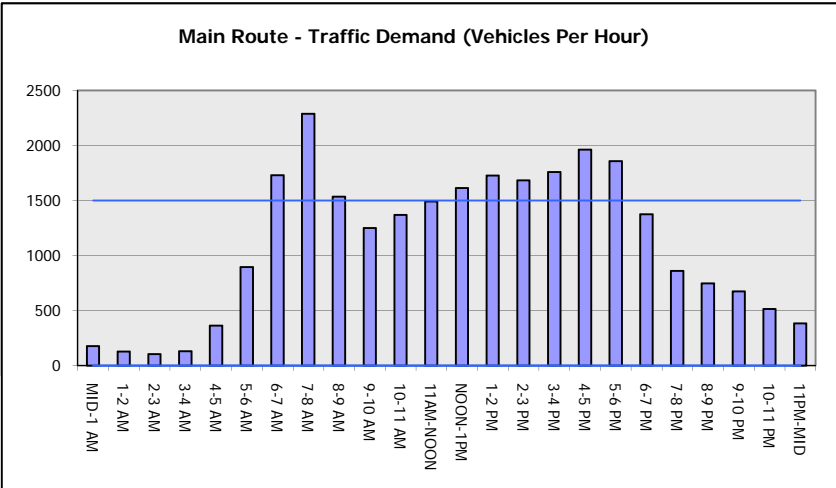
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0119
MAIN ROUTE WITH WORKS	0.0116
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$424
CONGESTED HOURS PER DAY*	0

*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	295	0.0	1500	295	0	0.45	0	65.8	56.0	44.3
1-2 AM	246	0.0	1500	246	0	0.45	0	66.0	56.1	44.5
2-3 AM	165	0.0	1500	165	0	0.44	0	66.1	56.4	44.8
3-4 AM	124	0.0	1500	124	0	0.43	0	66.1	56.5	45.0
4-5 AM	165	0.0	1500	165	0	0.44	0	66.1	56.4	44.8
5-6 AM	559	0.0	OFF	559	0	0.00	0	65.3	65.3	65.3
6-7 AM	1358	0.0	OFF	1358	0	0.00	0	63.8	63.8	63.8
7-8 AM	1947	0.0	OFF	1947	0	0.00	0	62.8	62.8	62.8
8-9 AM	1416	0.0	OFF	1416	0	0.00	0	63.8	63.8	63.8
9-10 AM	1318	0.0	OFF	1318	0	0.00	0	63.9	63.9	63.9
10-11 AM	1446	0.0	OFF	1446	0	0.00	0	63.7	63.7	63.7
11AM-NOON	1659	0.0	OFF	1659	0	0.00	0	63.3	63.3	63.3
NOON-1PM	1784	0.0	OFF	1784	0	0.00	0	63.0	63.0	63.0
1-2 PM	1916	0.0	OFF	1916	0	0.00	0	62.8	62.8	62.8
2-3 PM	2461	0.0	OFF	2461	0	0.00	0	61.3	61.3	61.3
3-4 PM	2549	0.0	OFF	2549	0	0.00	0	60.4	60.4	60.4
4-5 PM	2928	0.0	OFF	2928	0	0.00	0	56.5	56.5	56.5
5-6 PM	2453	0.0	OFF	2453	0	0.00	0	61.4	61.4	61.4
6-7 PM	1784	0.0	OFF	1784	0	0.00	0	63.0	63.0	63.0
7-8 PM	1320	0.0	1500	1320	0	0.79	0	63.9	49.1	35.0
8-9 PM	1176	0.0	1500	1176	0	0.61	0	64.2	52.2	39.2
9-10 PM	1132	0.0	1500	1132	0	0.55	0	64.3	53.1	40.7
10-11 PM	938	0.0	1500	938	0	0.51	0	64.6	54.0	41.9
11PM-MID	721	0.0	1500	721	0	0.49	0	65.0	54.6	42.7

"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	0.0142
MAIN ROUTE WITH WORKS	0.0138
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$794
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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FRIDAY EASTBOUND DIRECTION

