

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

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	OFF	177	0	0.00	0	66.1	66.1	66.1	
1-2 AM	128	0.0	OFF	128	0	0.00	0	66.1	66.1	66.1	
2-3 AM	104	0.0	OFF	104	0	0.00	0	66.2	66.2	66.2	
3-4 AM	131	0.0	OFF	131	0	0.00	0	66.1	66.1	66.1	
4-5 AM	363	0.0	OFF	363	0	0.00	0	65.7	65.7	65.7	
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	1499	1369	0	0.85	0	63.8	48.2	33.7	
11AM-NOON	1490	0.0	1499	1490	0	1.09	2	63.6	45.1	31.2	
NOON-1PM	1612	0.0	1500	1612	0	2.99	58	63.4	29.7	30.8	
1-2 PM	1726	0.0	1500	1726	0	9.22	232	63.2	14.2	30.8	
2-3 PM	1683	0.0	1499	1581	102	15.90+	402	63.3	10.0	30.8	
3-4 PM	1759	0.0	OFF	1759	0	0.65	41	63.1	50.7	50.7	
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	OFF	860	0	0.00	0	64.8	64.8	64.8	
8-9 PM	747	0.0	OFF	747	0	0.00	0	65.0	65.0	65.0	
9-10 PM	674	0.0	OFF	674	0	0.00	0	65.1	65.1	65.1	
10-11 PM	514	0.0	OFF	514	0	0.00	0	65.5	65.5	65.5	
11PM-MID	383	0.0	OFF	383	0	0.00	0	65.7	65.7	65.7	

"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

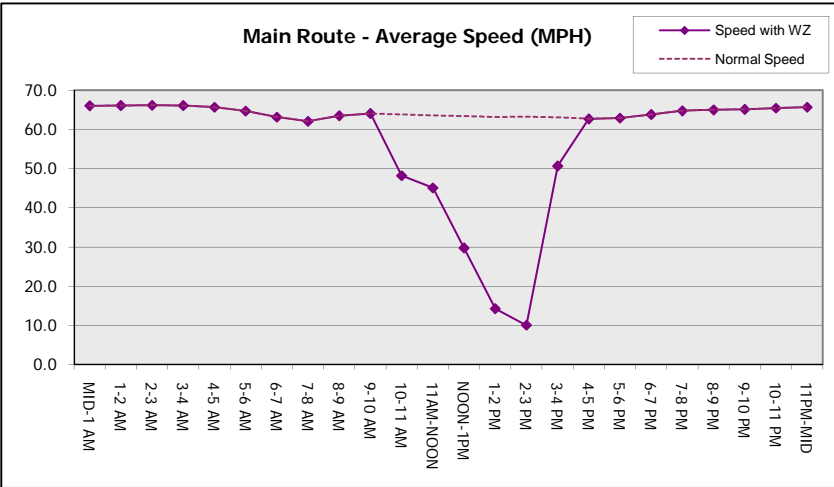
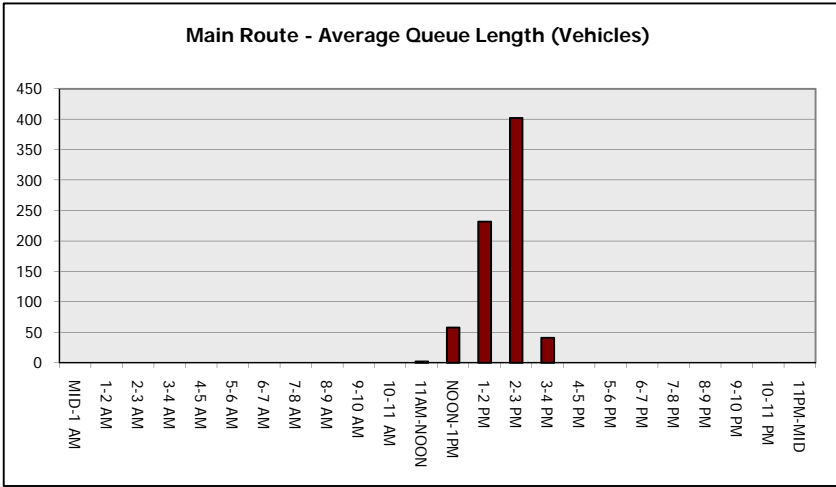
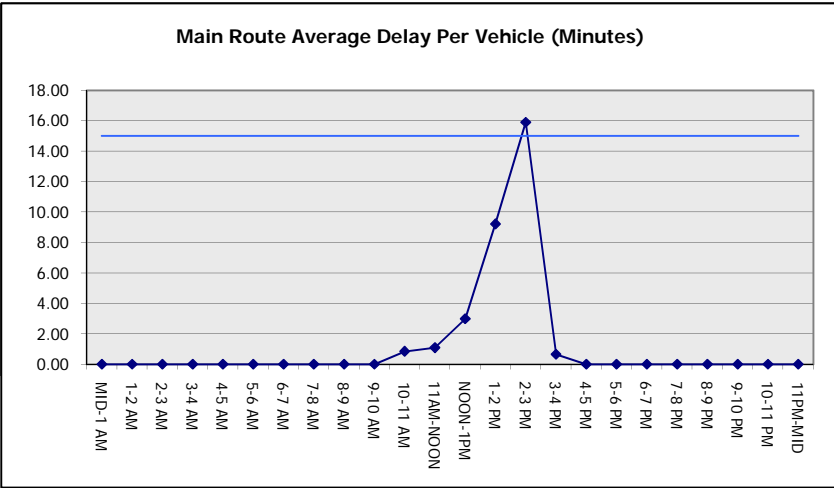
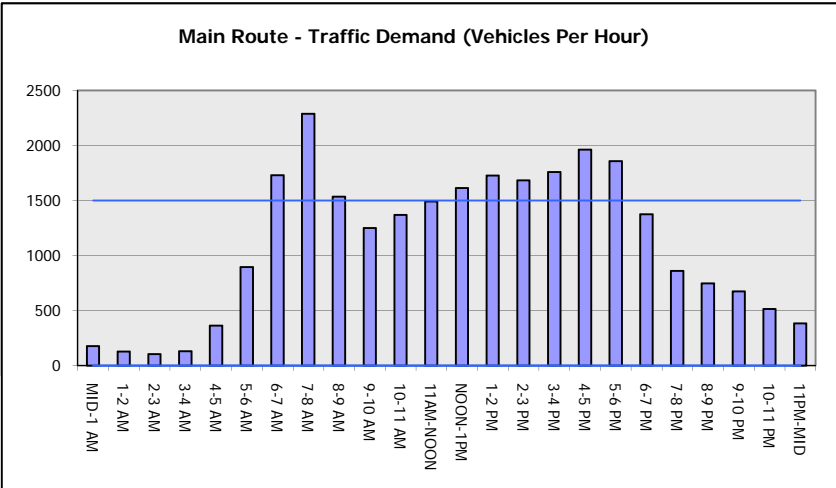
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0119
MAIN ROUTE WITH WORKS	0.0113
'DIVERSION'	0.0001
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$10,669
CONGESTED HOURS PER DAY*	1

*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	OFF	295	0	0.00	0	65.8	65.8	65.8
1-2 AM	246	0.0	OFF	246	0	0.00	0	66.0	66.0	66.0
2-3 AM	165	0.0	OFF	165	0	0.00	0	66.1	66.1	66.1
3-4 AM	124	0.0	OFF	124	0	0.00	0	66.1	66.1	66.1
4-5 AM	165	0.0	OFF	165	0	0.00	0	66.1	66.1	66.1
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	1499	1446	0	0.95	0	63.7	46.8	31.9
11AM-NOON	1659	0.0	1499	1659	0	3.22	69	63.3	28.6	30.8
NOON-1PM	1784	0.0	1500	1784	0	11.39+	293	63.0	12.4	30.8
1-2 PM	1916	0.0	1499	1497	418	16.31+	413	62.8	9.9	30.8
2-3 PM	2461	0.0	1499	1496	966	16.28+	414	61.3	9.9	30.8
3-4 PM	2549	0.0	OFF	2549	0	1.21	65	60.4	42.1	42.1
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	OFF	1320	0	0.00	0	63.9	63.9	63.9
8-9 PM	1176	0.0	OFF	1176	0	0.00	0	64.2	64.2	64.2
9-10 PM	1132	0.0	OFF	1132	0	0.00	0	64.3	64.3	64.3
10-11 PM	938	0.0	OFF	938	0	0.00	0	64.6	64.6	64.6
11PM-MID	721	0.0	OFF	721	0	0.00	0	65.0	65.0	65.0

"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	0.0
(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	0
(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	0.0131
'DIVERSION'	0.0014

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$21,045
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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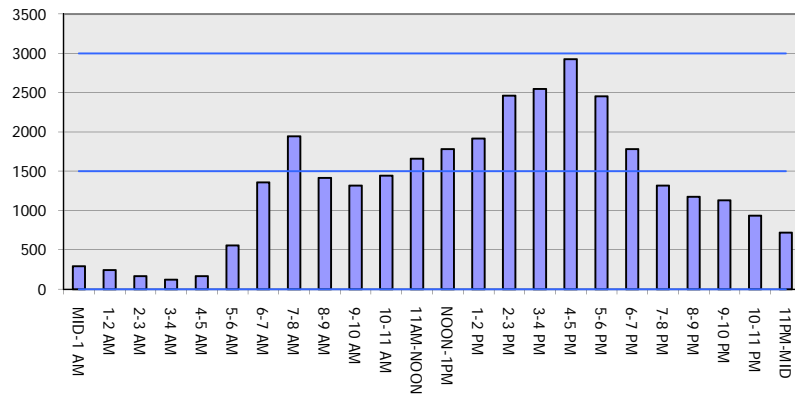
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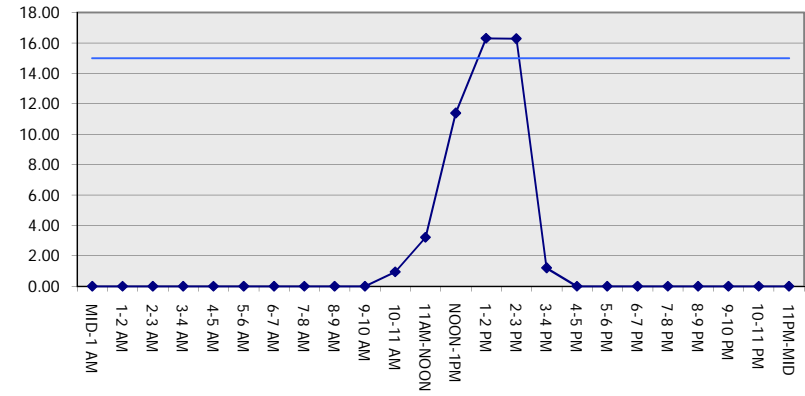
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY EASTBOUND DIRECTION

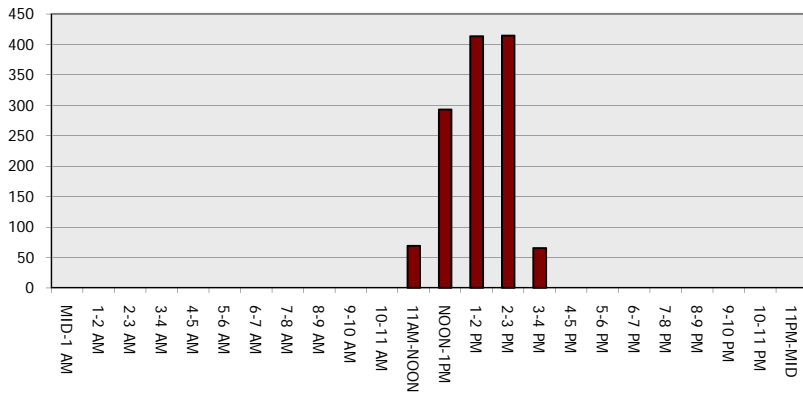
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

