

STH 441: RACINE ST TO USH 10 (CALUMET AND OUTAGAMIE COUNTIES) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	288	0.0	1500	288	0	0.45	0	65.8	56.0	44.3
1-2 AM	153	0.0	1500	153	0	0.44	0	66.1	56.4	44.9
2-3 AM	128	0.0	1500	128	0	0.43	0	66.1	56.4	45.0
3-4 AM	120	0.0	1500	120	0	0.43	0	66.1	56.5	45.0
4-5 AM	204	0.0	1500	204	0	0.44	0	66.0	56.3	44.6
5-6 AM	356	0.0	1500	356	0	0.46	0	65.7	55.8	44.1
6-7 AM	481	0.0	1500	481	0	0.47	0	65.5	55.4	43.6
7-8 AM	712	0.0	1500	712	0	0.49	0	65.1	54.6	42.7
8-9 AM	914	0.0	1500	914	0	0.51	0	64.7	54.0	42.0
9-10 AM	1135	0.0	1500	1135	0	0.55	0	64.3	53.0	40.6
10-11 AM	1273	0.0	1500	1273	0	0.73	0	64.0	50.1	36.3
11AM-NOON	1247	0.0	1500	1247	0	0.70	0	64.1	50.6	37.0
NOON-1PM	1235	0.0	1500	1235	0	0.68	0	64.1	50.9	37.4
1-2 PM	1172	0.0	1500	1172	0	0.60	0	64.2	52.2	39.4
2-3 PM	1164	0.0	1500	1164	0	0.59	0	64.2	52.4	39.6
3-4 PM	1094	0.0	1500	1094	0	0.53	0	64.3	53.5	41.4
4-5 PM	993	0.0	1500	993	0	0.52	0	64.5	53.8	41.7
5-6 PM	959	0.0	1500	959	0	0.52	0	64.6	53.9	41.8
6-7 PM	801	0.0	1500	801	0	0.50	0	64.9	54.4	42.4
7-8 PM	640	0.0	1500	640	0	0.48	0	65.2	54.9	43.0
8-9 PM	539	0.0	1500	539	0	0.47	0	65.4	55.2	43.3
9-10 PM	537	0.0	1500	537	0	0.47	0	65.4	55.2	43.3
10-11 PM	511	0.0	1500	511	0	0.47	0	65.5	55.3	43.5
11PM-MID	418	0.0	1500	418	0	0.46	0	65.6	55.6	43.8

----- 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	0.0076
MAIN ROUTE WITH WORKS	0.0065
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS

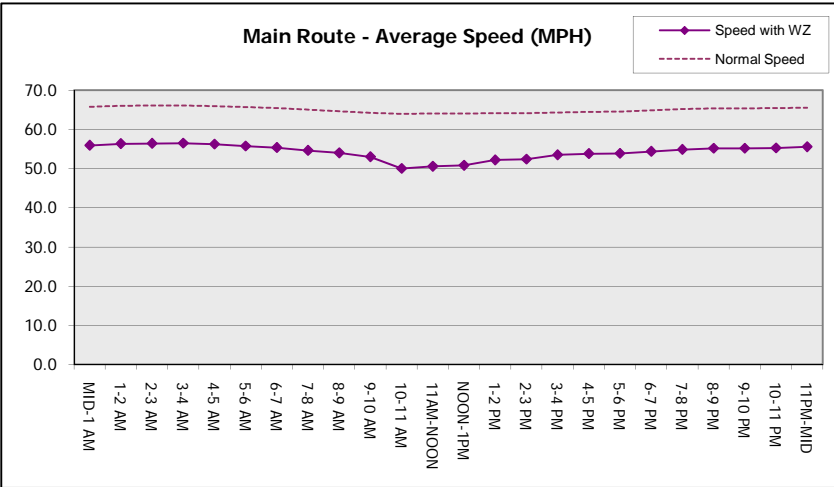
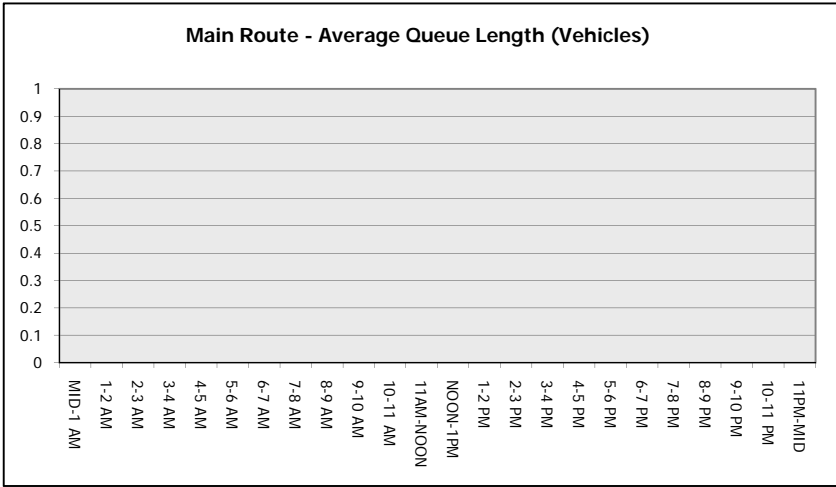
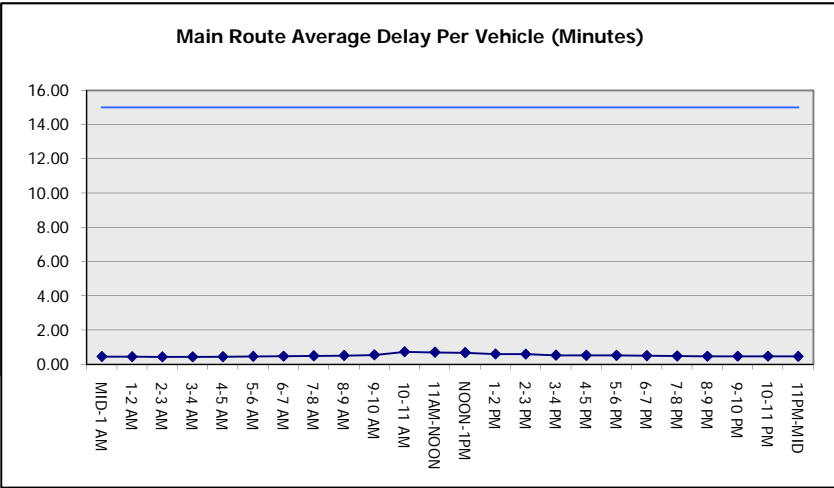
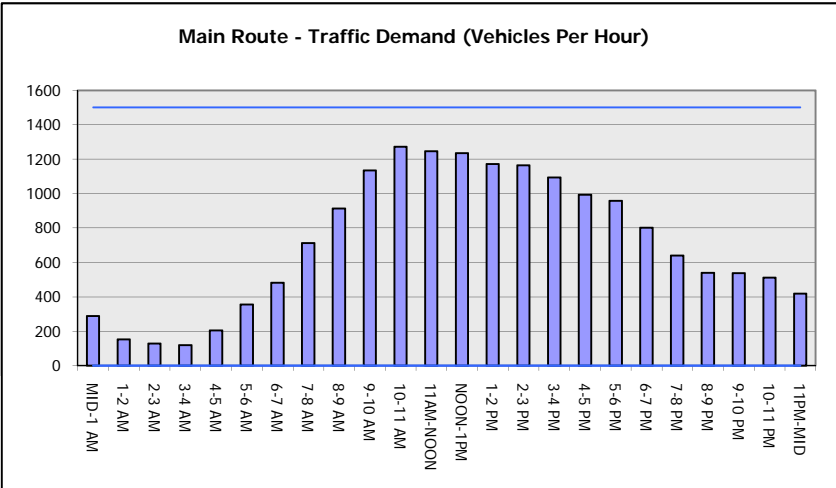
ROAD USER COSTS PER DAY	\$2,460
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY WESTBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	365	0.0	1500	365	0	0.46	0	65.7	55.7	44.0
1-2 AM	224	0.0	1500	224	0	0.44	0	66.0	56.2	44.6
2-3 AM	180	0.0	1500	180	0	0.44	0	66.1	56.3	44.8
3-4 AM	135	0.0	1500	135	0	0.44	0	66.1	56.4	45.0
4-5 AM	124	0.0	1500	124	0	0.43	0	66.1	56.5	45.0
5-6 AM	269	0.0	1500	269	0	0.45	0	65.9	56.0	44.4
6-7 AM	481	0.0	1500	481	0	0.47	0	65.5	55.4	43.6
7-8 AM	541	0.0	1500	541	0	0.47	0	65.4	55.2	43.3
8-9 AM	721	0.0	1500	721	0	0.49	0	65.0	54.6	42.7
9-10 AM	980	0.0	1500	980	0	0.52	0	64.6	53.8	41.7
10-11 AM	1229	0.0	1500	1229	0	0.67	0	64.1	51.0	37.6
11AM-NOON	1394	0.0	1500	1394	0	0.89	0	63.8	47.7	33.1
NOON-1PM	1479	0.0	1500	1479	0	1.00	0	63.7	46.2	31.2
1-2 PM	1498	0.0	1500	1498	0	1.02	0	63.6	45.9	30.8
2-3 PM	1463	0.0	1499	1463	0	0.98	0	63.7	46.5	31.5
3-4 PM	1523	0.0	1499	1523	0	1.51	13	63.5	40.5	30.8
4-5 PM	1413	0.0	1500	1413	0	1.06	4	63.8	45.5	32.5
5-6 PM	1378	0.0	1500	1378	0	0.87	0	63.8	48.0	33.5
6-7 PM	1261	0.0	1500	1261	0	0.72	0	64.0	50.3	36.6
7-8 PM	986	0.0	1500	986	0	0.52	0	64.5	53.8	41.7
8-9 PM	1050	0.0	1500	1050	0	0.52	0	64.5	53.7	41.5
9-10 PM	957	0.0	1500	957	0	0.51	0	64.6	53.9	41.9
10-11 PM	802	0.0	1500	802	0	0.50	0	64.9	54.4	42.4
11PM-MID	506	0.0	1500	506	0	0.47	0	65.5	55.3	43.5

----- 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	0.0093
MAIN ROUTE WITH WORKS	0.0080
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$4,279
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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