

STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY) NIGHTTIME CLOSURE DIVERSION ROUTE: PROSPECT AVENUE - STH 47	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		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	183	0.0	57	0.0	1500	183	0	57	0.44	0	66.1	47.0	44.8	24.4	24.4
1-2 AM	126	0.0	39	0.0	1500	126	0	39	0.43	0	66.1	47.3	45.0	24.5	24.5
2-3 AM	111	0.0	34	0.0	1500	111	0	34	0.43	0	66.2	47.3	45.0	24.6	24.6
3-4 AM	166	0.0	51	0.0	1500	166	0	51	0.44	0	66.1	47.1	44.8	24.5	24.5
4-5 AM	496	0.0	152	0.0	1500	496	0	152	0.47	0	65.5	45.8	43.5	23.7	23.7
5-6 AM	1405	0.0	431	0.0	OFF	1405	0	431	0.00	0	63.8	63.8	63.8	21.5	21.5
6-7 AM	2550	0.0	782	0.0	OFF	2550	0	782	0.00	0	60.4	60.4	60.4	18.8	18.8
7-8 AM	3424	0.0	1050	0.0	OFF	3424	0	1050	0.00	0	51.4	51.4	51.4	16.8	16.8
8-9 AM	2120	0.0	650	0.0	OFF	2120	0	650	0.00	0	62.4	62.4	62.4	19.9	19.9
9-10 AM	1686	0.0	517	0.0	OFF	1686	0	517	0.00	0	63.2	63.2	63.2	20.9	20.9
10-11 AM	1717	0.0	526	0.0	OFF	1717	0	526	0.00	0	63.2	63.2	63.2	20.8	20.8
11A-NOON	1827	0.0	560	0.0	OFF	1827	0	560	0.00	0	63.0	63.0	63.0	20.6	20.6
NOON-1PM	1974	0.0	605	0.0	OFF	1974	0	605	0.00	0	62.7	62.7	62.7	20.2	20.2
1-2 PM	2152	0.0	660	0.0	OFF	2152	0	660	0.00	0	62.3	62.3	62.3	19.7	19.7
2-3 PM	2130	0.0	653	0.0	OFF	2130	0	653	0.00	0	62.4	62.4	62.4	19.8	19.8
3-4 PM	2315	0.0	709	0.0	OFF	2315	0	709	0.00	0	62.1	62.1	62.1	19.4	19.4
4-5 PM	2693	0.0	826	0.0	OFF	2693	0	826	0.00	0	58.9	58.9	58.9	18.5	18.5
5-6 PM	2638	0.0	809	0.0	OFF	2638	0	809	0.00	0	59.5	59.5	59.5	18.6	18.6
6-7 PM	1755	0.0	538	0.0	OFF	1755	0	538	0.00	0	63.1	63.1	63.1	20.7	20.7
7-8 PM	1175	0.0	360	0.0	1500	1175	0	360	0.60	0	64.2	41.7	39.2	22.0	22.0
8-9 PM	1039	0.0	319	0.0	1500	1039	0	319	0.52	0	64.5	43.9	41.5	22.4	22.4
9-10 PM	844	0.0	258	0.0	1500	844	0	258	0.50	0	64.8	44.6	42.2	22.9	22.9
10-11 PM	681	0.0	209	0.0	1500	681	0	209	0.49	0	65.1	45.1	42.8	23.2	23.2
11PM-MID	450	0.0	139	0.0	1500	450	0	139	0.47	0	65.6	46.0	43.7	23.8	23.8

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0068
MAIN ROUTE WITH WORKS	0.0065
DIVERSION	0.0873

PIA: Personal Injury Accidents

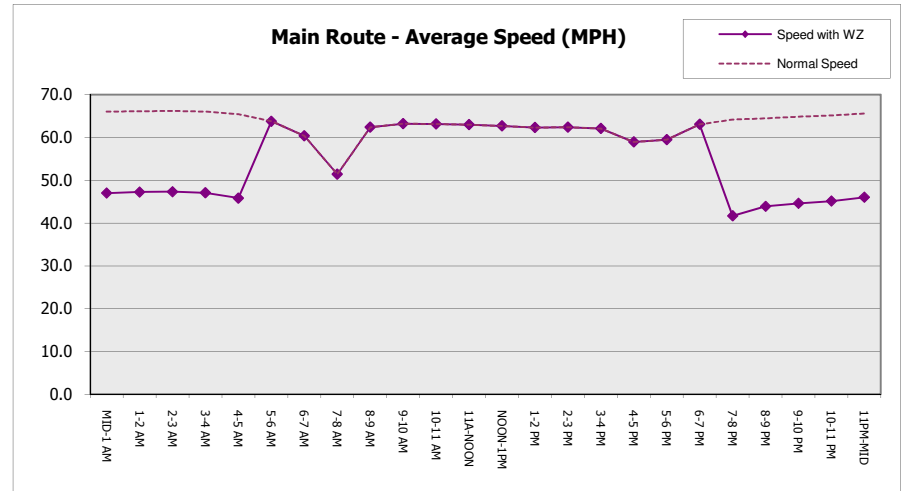
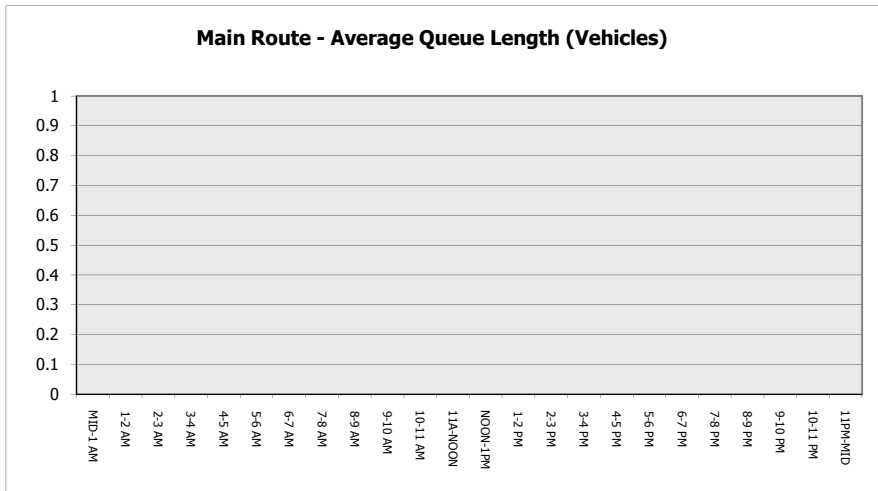
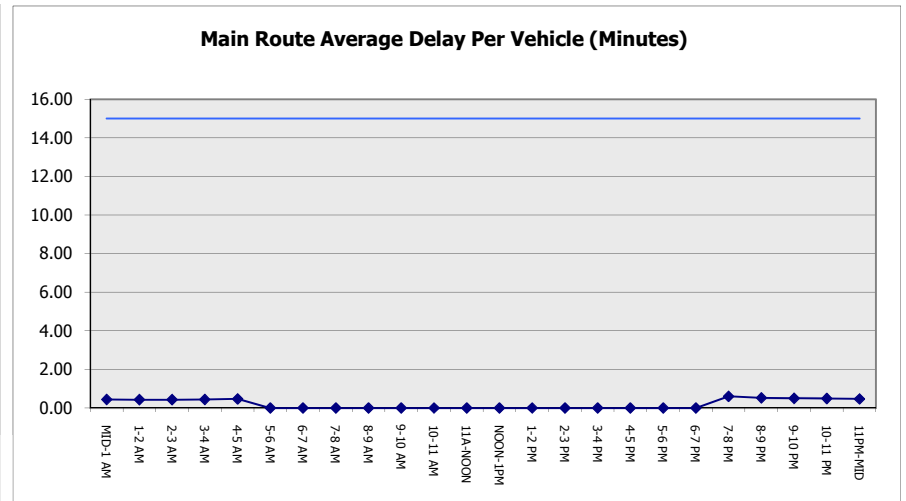
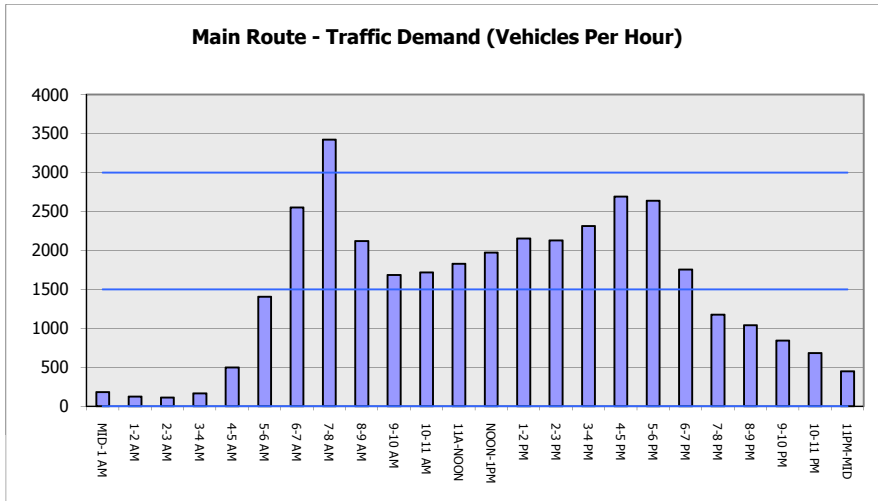
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$649
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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NIGHTTIME CLOSURE
DIVERSION ROUTE: PROSPECT AVENUE - STH 47

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



STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY) NIGHTTIME CLOSURE DIVERSION ROUTE: PROSPECT AVENUE - STH 47	AUGUST Analyzed for 2009 Construction Season
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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		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	329	0.0	103	0.0	1500	329	0	103	0.45	0	65.8	46.5	44.2	24.0	24.0
1-2 AM	212	0.0	66	0.0	1500	212	0	66	0.44	0	66.0	46.9	44.6	24.3	24.3
2-3 AM	183	0.0	57	0.0	1500	183	0	57	0.44	0	66.1	47.0	44.8	24.4	24.4
3-4 AM	127	0.0	39	0.0	1500	127	0	39	0.43	0	66.1	47.3	45.0	24.5	24.5
4-5 AM	234	0.0	72	0.0	1500	234	0	72	0.45	0	66.0	46.8	44.5	24.3	24.3
5-6 AM	822	0.0	252	0.0	OFF	822	0	252	0.00	0	64.8	64.8	64.8	22.9	22.9
6-7 AM	2073	0.0	636	0.0	OFF	2073	0	636	0.00	0	62.5	62.5	62.5	19.9	19.9
7-8 AM	2883	0.0	884	0.0	OFF	2883	0	884	0.00	0	56.9	56.9	56.9	18.1	18.1
8-9 AM	2063	0.0	633	0.0	OFF	2063	0	633	0.00	0	62.5	62.5	62.5	20.0	20.0
9-10 AM	1801	0.0	552	0.0	OFF	1801	0	552	0.00	0	63.0	63.0	63.0	20.6	20.6
10-11 AM	1844	0.0	565	0.0	OFF	1844	0	565	0.00	0	63.0	63.0	63.0	20.5	20.5
11A-NOON	2049	0.0	628	0.0	OFF	2049	0	628	0.00	0	62.6	62.6	62.6	20.0	20.0
NOON-1PM	2176	0.0	667	0.0	OFF	2176	0	667	0.00	0	62.3	62.3	62.3	19.7	19.7
1-2 PM	2303	0.0	706	0.0	OFF	2303	0	706	0.00	0	62.1	62.1	62.1	19.4	19.4
2-3 PM	3059	0.0	938	0.0	OFF	3059	0	938	0.00	0	55.1	55.1	55.1	17.6	17.6
3-4 PM	3477	0.0	1066	0.0	OFF	3477	0	1066	0.00	0	50.9	50.9	50.9	16.6	16.6
4-5 PM	4485	0.0	1375	0.0	OFF	4485	0	1375	0.00	0	40.6	40.6	40.6	14.3	14.3
5-6 PM	3862	0.0	1185	0.0	OFF	3862	0	1185	0.00	0	46.9	46.9	46.9	15.8	15.8
6-7 PM	2525	0.0	774	0.0	OFF	2525	0	774	0.00	0	60.6	60.6	60.6	18.9	18.9
7-8 PM	1769	0.0	542	0.0	1499	1769	0	542	6.50	162	63.1	12.0	30.8	20.7	21.4
8-9 PM	1644	0.0	504	0.0	1500	1644	0	504	14.13	355	63.3	8.2	30.8	21.0	22.5
9-10 PM	1306	0.0	400	0.0	1499	1306	0	400	13.24	333	64.0	8.4	30.8	21.8	23.2
10-11 PM	1103	0.0	338	0.0	1499	1103	0	338	1.85	72	64.3	26.3	37.7	22.2	22.5
11PM-MID	706	0.0	216	0.0	1500	706	0	216	0.49	0	65.1	45.1	42.7	23.2	23.2

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0082
MAIN ROUTE WITH WORKS	0.0077
DIVERSION	0.1054

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$13,191
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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NIGHTTIME CLOSURE
DIVERSION ROUTE: PROSPECT AVENUE - STH 47

AUGUST
 Analyzed for 2009
 Construction Season

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

