

**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**

FRIDAY 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	248	0.0	76	0.0	1500	248	0	76	0.45	0	66.0	46.8	44.5	24.3	24.3
1-2 AM	179	0.0	55	0.0	1500	179	0	55	0.44	0	66.1	47.1	44.8	24.4	24.4
2-3 AM	145	0.0	44	0.0	1500	145	0	44	0.44	0	66.1	47.2	44.9	24.5	24.5
3-4 AM	183	0.0	57	0.0	1500	183	0	57	0.44	0	66.1	47.0	44.8	24.4	24.4
4-5 AM	510	0.0	156	0.0	1500	510	0	156	0.47	0	65.5	45.8	43.5	23.7	23.7
5-6 AM	1254	0.0	384	0.0	OFF	1254	0	384	0.00	0	64.0	64.0	64.0	21.9	21.9
6-7 AM	2425	0.0	743	0.0	OFF	2425	0	743	0.00	0	61.7	61.7	61.7	19.1	19.1
7-8 AM	3205	0.0	983	0.0	OFF	3205	0	983	0.00	0	53.7	53.7	53.7	17.3	17.3
8-9 AM	2149	0.0	659	0.0	OFF	2149	0	659	0.00	0	62.4	62.4	62.4	19.8	19.8
9-10 AM	1751	0.0	536	0.0	OFF	1751	0	536	0.00	0	63.1	63.1	63.1	20.7	20.7
10-11 AM	1918	0.0	588	0.0	OFF	1918	0	588	0.00	0	62.8	62.8	62.8	20.3	20.3
11A-NOON	2086	0.0	639	0.0	OFF	2086	0	639	0.00	0	62.5	62.5	62.5	19.9	19.9
NOON-1PM	2258	0.0	693	0.0	OFF	2258	0	693	0.00	0	62.2	62.2	62.2	19.5	19.5
1-2 PM	2417	0.0	741	0.0	OFF	2417	0	741	0.00	0	61.7	61.7	61.7	19.1	19.1
2-3 PM	2357	0.0	723	0.0	OFF	2357	0	723	0.00	0	62.0	62.0	62.0	19.3	19.3
3-4 PM	2464	0.0	756	0.0	OFF	2464	0	756	0.00	0	61.2	61.2	61.2	19.1	19.1
4-5 PM	2749	0.0	843	0.0	OFF	2749	0	843	0.00	0	58.3	58.3	58.3	18.4	18.4
5-6 PM	2602	0.0	798	0.0	OFF	2602	0	798	0.00	0	59.9	59.9	59.9	18.7	18.7
6-7 PM	1926	0.0	591	0.0	OFF	1926	0	591	0.00	0	62.8	62.8	62.8	20.3	20.3
7-8 PM	1204	0.0	370	0.0	1500	1204	0	370	0.64	0	64.1	40.8	38.3	22.0	22.0
8-9 PM	1046	0.0	321	0.0	1500	1046	0	321	0.52	0	64.5	43.8	41.5	22.4	22.4
9-10 PM	945	0.0	289	0.0	1500	945	0	289	0.51	0	64.6	44.2	41.9	22.6	22.6
10-11 PM	720	0.0	220	0.0	1500	720	0	220	0.49	0	65.0	45.0	42.7	23.2	23.2
11PM-MID	536	0.0	165	0.0	1500	536	0	165	0.47	0	65.4	45.7	43.3	23.6	23.6

"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	0.0071
MAIN ROUTE WITH WORKS	0.0067
DIVERSION	0.0913

PIA: Personal Injury Accidents

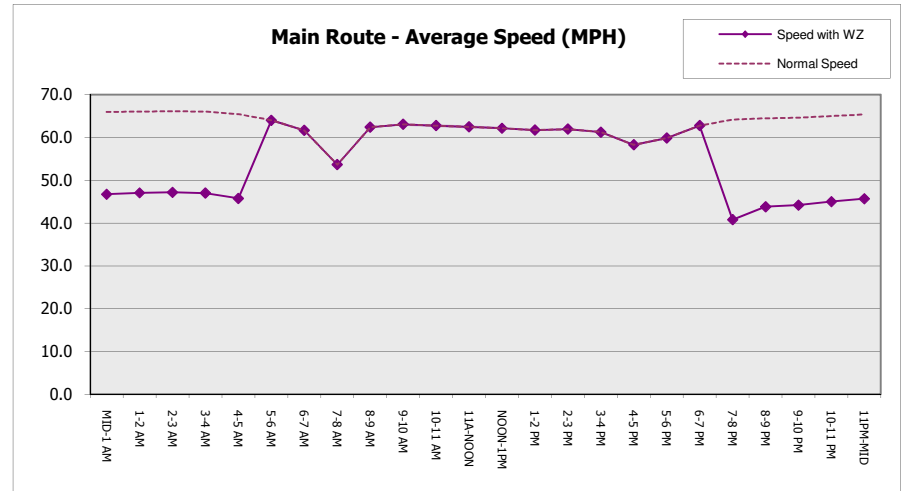
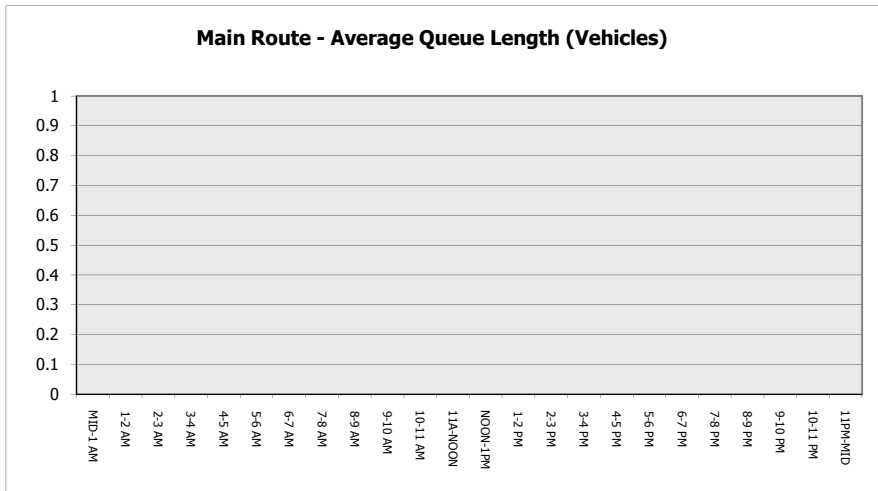
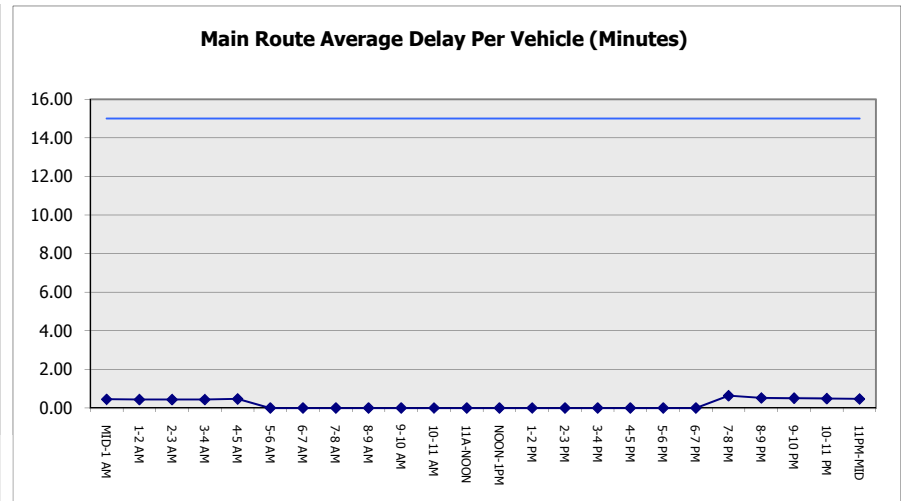
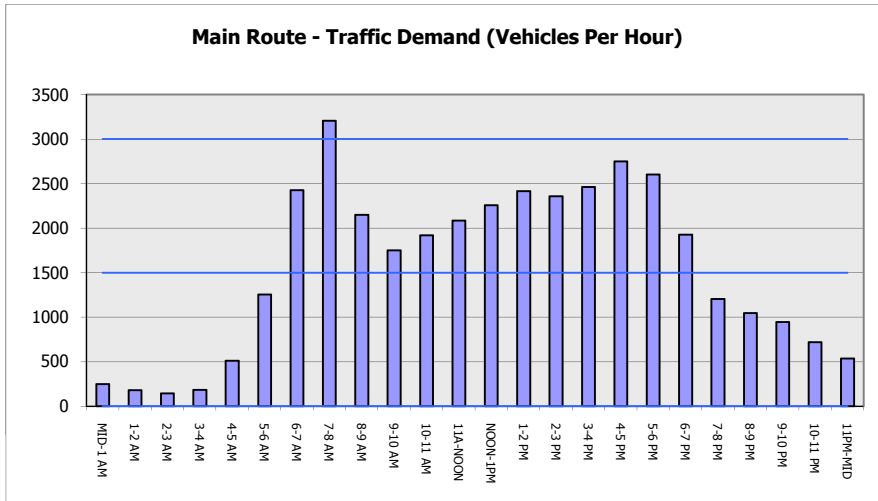
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$746
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY)**  
**NIGHTTIME CLOSURE**  
**DIVERSION ROUTE: PROSPECT AVENUE - STH 47**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY WESTBOUND DIRECTION**



<b>STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY) NIGHTTIME CLOSURE DIVERSION ROUTE: PROSPECT AVENUE - STH 47</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
FRIDAY	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		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	413	0.0	127	0.0	1500	413	0	127	0.46	0	65.6	46.1	43.8	23.8	23.8
1-2 AM	344	0.0	106	0.0	1500	344	0	106	0.46	0	65.8	46.4	44.1	24.0	24.0
2-3 AM	230	0.0	71	0.0	1500	230	0	71	0.44	0	66.0	46.8	44.6	24.3	24.3
3-4 AM	173	0.0	52	0.0	1500	173	0	52	0.44	0	66.1	47.1	44.8	24.5	24.5
4-5 AM	230	0.0	71	0.0	1500	230	0	71	0.44	0	66.0	46.8	44.6	24.3	24.3
5-6 AM	783	0.0	240	0.0	OFF	783	0	240	0.00	0	65.0	65.0	65.0	23.0	23.0
6-7 AM	1901	0.0	583	0.0	OFF	1901	0	583	0.00	0	62.8	62.8	62.8	20.4	20.4
7-8 AM	2726	0.0	836	0.0	OFF	2726	0	836	0.00	0	58.6	58.6	58.6	18.4	18.4
8-9 AM	1984	0.0	608	0.0	OFF	1984	0	608	0.00	0	62.7	62.7	62.7	20.2	20.2
9-10 AM	1845	0.0	565	0.0	OFF	1845	0	565	0.00	0	63.0	63.0	63.0	20.5	20.5
10-11 AM	2026	0.0	621	0.0	OFF	2026	0	621	0.00	0	62.6	62.6	62.6	20.1	20.1
11A-NOON	2324	0.0	712	0.0	OFF	2324	0	712	0.00	0	62.0	62.0	62.0	19.4	19.4
NOON-1PM	2499	0.0	766	0.0	OFF	2499	0	766	0.00	0	60.9	60.9	60.9	18.9	18.9
1-2 PM	2683	0.0	822	0.0	OFF	2683	0	822	0.00	0	59.0	59.0	59.0	18.5	18.5
2-3 PM	3447	0.0	1057	0.0	OFF	3447	0	1057	0.00	0	51.2	51.2	51.2	16.7	16.7
3-4 PM	3570	0.0	1094	0.0	OFF	3570	0	1094	0.00	0	49.9	49.9	49.9	16.5	16.5
4-5 PM	4101	0.0	1257	0.0	OFF	4101	0	1257	0.00	0	44.5	44.5	44.5	15.2	15.2
5-6 PM	3436	0.0	1053	0.0	OFF	3436	0	1053	0.00	0	51.3	51.3	51.3	16.8	16.8
6-7 PM	2499	0.0	766	0.0	OFF	2499	0	766	0.00	0	60.9	60.9	60.9	18.9	18.9
7-8 PM	1848	0.0	566	0.0	1499	1848	0	566	7.74	200	63.0	11.1	30.8	20.5	21.4
8-9 PM	1647	0.0	505	0.0	1499	1644	3	508	16.87	429	63.3	7.6	30.8	21.0	22.9
9-10 PM	1585	0.0	486	0.0	1499	1492	93	579	19.41	496	63.4	7.3	30.8	21.1	22.6
10-11 PM	1313	0.0	402	0.0	1499	1313	0	403	16.07	408	64.0	7.8	30.8	21.7	23.6
11PM-MID	1010	0.0	310	0.0	1499	1010	0	310	2.41	110	64.5	23.5	37.8	22.5	22.9

**"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	0.0085
MAIN ROUTE WITH WORKS	0.0079
DIVERSION	0.1100

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$24,317
CONGESTED HOURS PER DAY*	3

\*Delays Exceeding 15 Minutes

**STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY)**  
**NIGHTTIME CLOSURE**  
**DIVERSION ROUTE: PROSPECT AVENUE - STH 47**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY EASTBOUND DIRECTION**

