

<b>STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: PROSPECT AVENUE - STH 47</b>	<b>AUGUST</b>
	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	1499	1405	0	431	1.19	20	63.8	31.3	35.5	21.5	21.5
6-7 AM	2550	0.0	782	0.0	1500	2326	224	1006	17.62	500	60.4	7.9	30.8	18.8	19.3
7-8 AM	3424	0.0	1050	0.0	1500	1500	1923	2973+	36.01	968	51.4	6.0	30.8	16.8	14.3
8-9 AM	2120	0.0	650	0.0	1500	1240	879	1529	31.19	816	62.4	6.3	30.8	19.9	16.0
9-10 AM	1686	0.0	517	0.0	1499	1364	322	839	21.73	559	63.2	7.0	30.8	20.9	20.7
10-11 AM	1717	0.0	526	0.0	1500	1527	190	716	20.54	527	63.2	7.1	30.8	20.8	21.6
11A-NOON	1827	0.0	560	0.0	1500	1541	286	846	21.74	559	63.0	7.0	30.8	20.6	20.7
NOON-1PM	1974	0.0	605	0.0	1500	1559	415	1020	23.56	609	62.7	6.8	30.8	20.2	19.5
1-2 PM	2152	0.0	660	0.0	1500	1575	577	1237	26.28	682	62.3	6.6	30.8	19.7	18.0
2-3 PM	2130	0.0	653	0.0	1499	1494	637	1289	27.03	702	62.4	6.5	30.8	19.8	17.6
3-4 PM	2315	0.0	709	0.0	1500	1612	703	1412	28.95	755	62.1	6.4	30.8	19.4	16.8
4-5 PM	2693	0.0	826	0.0	1500	1587	1106	1932+	34.60	914	58.9	6.1	30.8	18.5	14.8
5-6 PM	2638	0.0	809	0.0	1500	1484	1154	1963+	34.71	915	59.5	6.1	30.8	18.6	14.8
6-7 PM	1755	0.0	538	0.0	1500	1108	647	1185	25.99	678	63.1	6.6	30.8	20.7	18.4
7-8 PM	1175	0.0	360	0.0	1499	1175	0	360	13.80	357	64.2	8.4	31.7	22.0	23.7
8-9 PM	1039	0.0	319	0.0	1500	1039	0	319	1.14	35	64.5	32.9	40.1	22.4	22.5
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

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

*----- 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	0.0033
DIVERSION	0.1597

PIA: Personal Injury Accidents

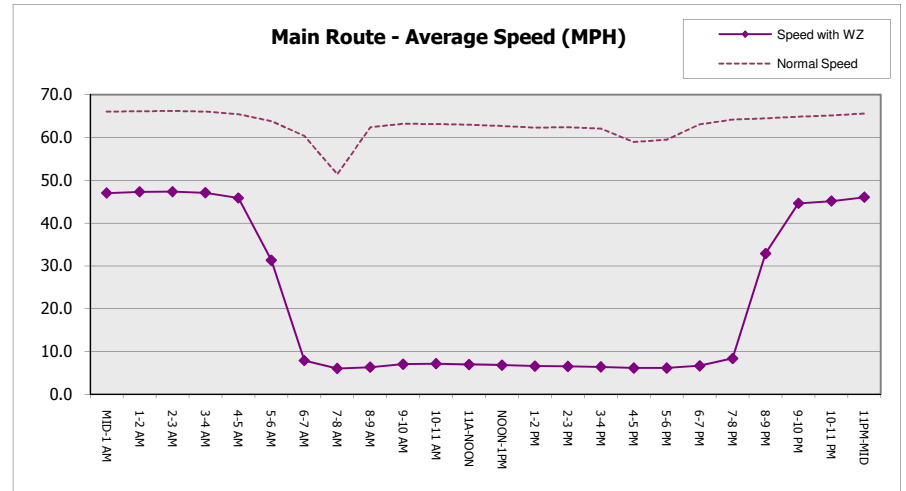
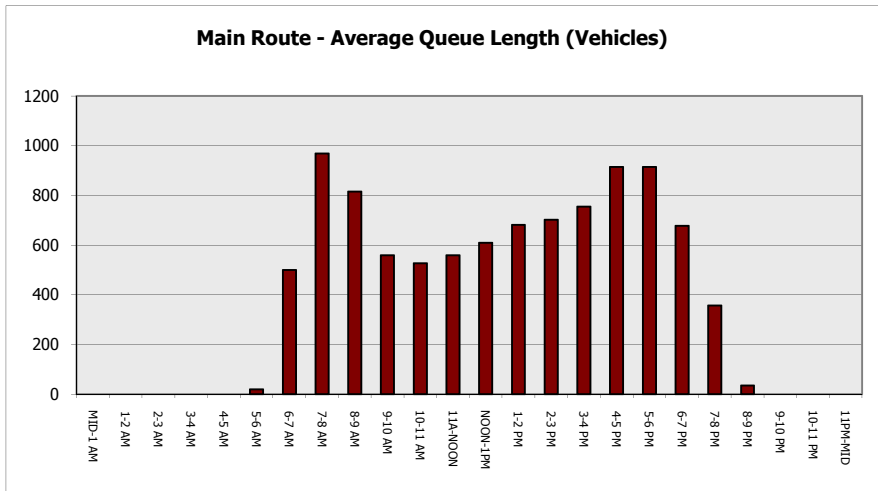
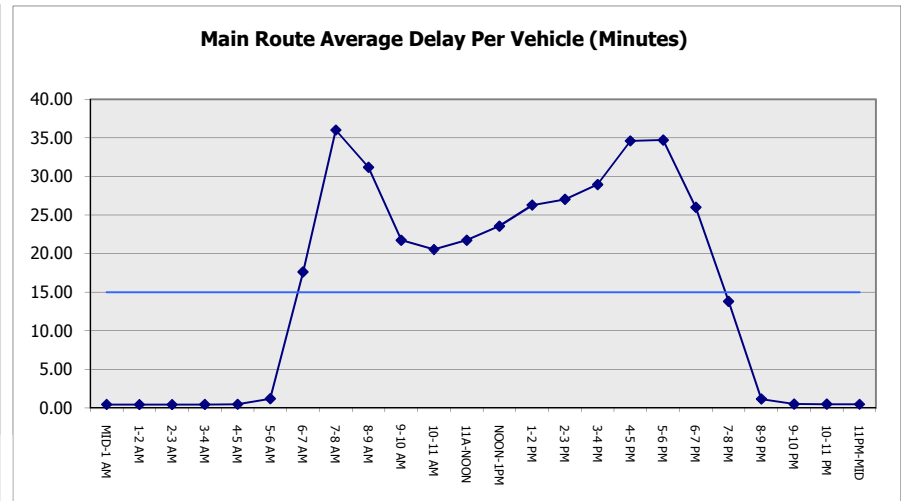
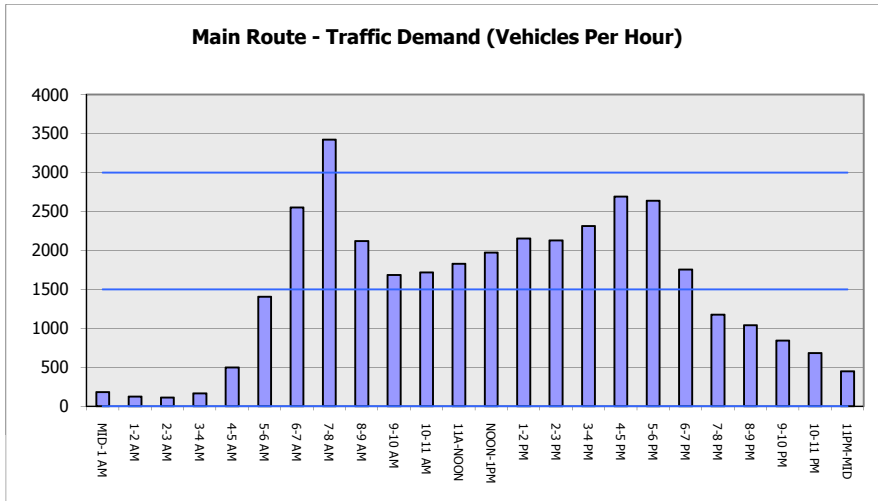
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$210,606
CONGESTED HOURS PER DAY*	13

\*Delays Exceeding 15 Minutes

**STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY)  
 CONTINUOUS (24 HOUR) CLOSURE  
 DIVERSION ROUTE: PROSPECT AVENUE - STH 47**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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



<b>STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: PROSPECT AVENUE - STH 47</b>	<b>AUGUST</b> Analyzed for 2009 Construction Season
---	---

<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
MON-THUR	EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	AVERAGE SPEEDS IN MPH				
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING				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	1500	822	0	252	0.50	0	64.8	44.6	42.3	22.9	22.9
6-7 AM	2073	0.0	636	0.0	1499	2073	0	636	7.33	222	62.5	11.9	30.8	19.9	20.9
7-8 AM	2883	0.0	884	0.0	1499	1869	1014	1898+	32.39	860	56.9	6.2	30.8	18.1	15.6
8-9 AM	2063	0.0	633	0.0	1499	1203	860	1493	30.57	800	62.5	6.3	30.8	20.0	16.3
9-10 AM	1801	0.0	552	0.0	1499	1409	391	943	22.75	586	63.0	6.9	30.8	20.6	20.1
10-11 AM	1844	0.0	565	0.0	1500	1530	313	879	22.06	568	63.0	7.0	30.8	20.5	20.5
11A-NOON	2049	0.0	628	0.0	1500	1585	463	1091	24.40	632	62.6	6.8	30.8	20.0	19.0
NOON-1PM	2176	0.0	667	0.0	1499	1561	615	1283	26.92	700	62.3	6.5	30.8	19.7	17.7
1-2 PM	2303	0.0	706	0.0	1499	1595	708	1414	28.97	756	62.1	6.4	30.8	19.4	16.8
2-3 PM	3059	0.0	938	0.0	1500	1615	1444	2381+	35.27	939	55.1	6.1	30.8	17.6	14.7
3-4 PM	3477	0.0	1066	0.0	1500	1500	1977	3043+	35.96	968	50.9	6.0	30.8	16.6	14.3
4-5 PM	4485	0.0	1375	0.0	1500	1500	2985	4360+	34.72	968	40.6	6.0	30.8	14.3	14.3
5-6 PM	3862	0.0	1185	0.0	1500	1500	2362	3547+	35.55	968	46.9	6.0	30.8	15.8	14.3
6-7 PM	2525	0.0	774	0.0	1500	1388	1137	1911+	34.36	904	60.6	6.1	30.8	18.9	15.0
7-8 PM	1769	0.0	542	0.0	1500	1194	575	1118	24.98	650	63.1	6.7	30.8	20.7	18.9
8-9 PM	1644	0.0	504	0.0	1500	1473	171	675	20.20	517	63.3	7.1	30.8	21.0	21.9
9-10 PM	1306	0.0	400	0.0	1499	1296	10	411	16.03	407	64.0	7.8	30.8	21.8	23.5
10-11 PM	1103	0.0	338	0.0	1499	1103	0	338	3.04	123	64.3	20.4	36.7	22.2	22.8
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

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

*----- 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	0.0035
DIVERSION	0.2254

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$292,266
CONGESTED HOURS PER DAY*	15

\*Delays Exceeding 15 Minutes

**STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY)  
 CONTINUOUS (24 HOUR) 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**

