

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

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	1499	1254	0	384	0.73	0	64.0	38.8	36.3	21.9	21.9
6-7 AM	2425	0.0	743	0.0	1499	2297	129	872	13.13	384	61.7	9.0	30.8	19.1	19.8
7-8 AM	3205	0.0	983	0.0	1500	1590	1615	2598+	35.38	945	53.7	6.1	30.8	17.3	14.5
8-9 AM	2149	0.0	659	0.0	1500	1284	865	1524	31.05	812	62.4	6.3	30.8	19.8	16.1
9-10 AM	1751	0.0	536	0.0	1499	1366	385	921	22.55	581	63.1	6.9	30.8	20.7	20.2
10-11 AM	1918	0.0	588	0.0	1500	1578	340	928	22.57	582	62.8	6.9	30.8	20.3	20.2
11A-NOON	2086	0.0	639	0.0	1500	1573	513	1153	25.16	652	62.5	6.7	30.8	19.9	18.6
NOON-1PM	2258	0.0	693	0.0	1500	1590	668	1361	28.12	733	62.2	6.5	30.8	19.5	17.2
1-2 PM	2417	0.0	741	0.0	1500	1593	824	1565	31.72	831	61.7	6.3	30.8	19.1	15.8
2-3 PM	2357	0.0	723	0.0	1500	1474	883	1606+	32.56	853	62.0	6.2	30.8	19.3	15.5
3-4 PM	2464	0.0	756	0.0	1500	1576	888	1643+	33.33	875	61.2	6.2	30.8	19.1	15.3
4-5 PM	2749	0.0	843	0.0	1500	1507	1242	2085+	34.94	924	58.3	6.1	30.8	18.4	14.7
5-6 PM	2602	0.0	798	0.0	1500	1477	1126	1923+	34.77	916	59.9	6.1	30.8	18.7	14.8
6-7 PM	1926	0.0	591	0.0	1498	1157	768	1358	28.37	740	62.8	6.5	30.7	20.3	17.2
7-8 PM	1204	0.0	370	0.0	1500	1140	65	434	15.06	390	64.1	8.1	31.4	22.0	23.2
8-9 PM	1046	0.0	321	0.0	1500	1046	0	321	1.37	48	64.5	30.4	39.5	22.4	22.5
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

+ 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	0.0071
MAIN ROUTE WITH WORKS	0.0034
DIVERSION	0.1736

PIA: Personal Injury Accidents

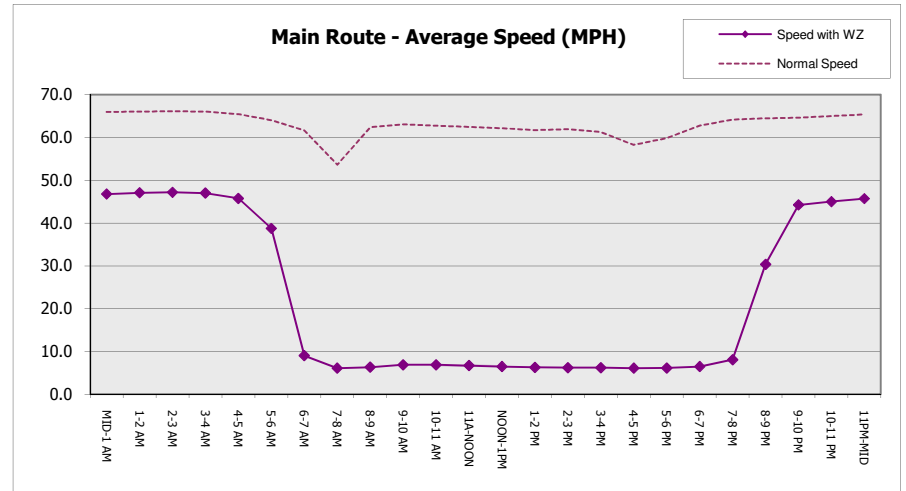
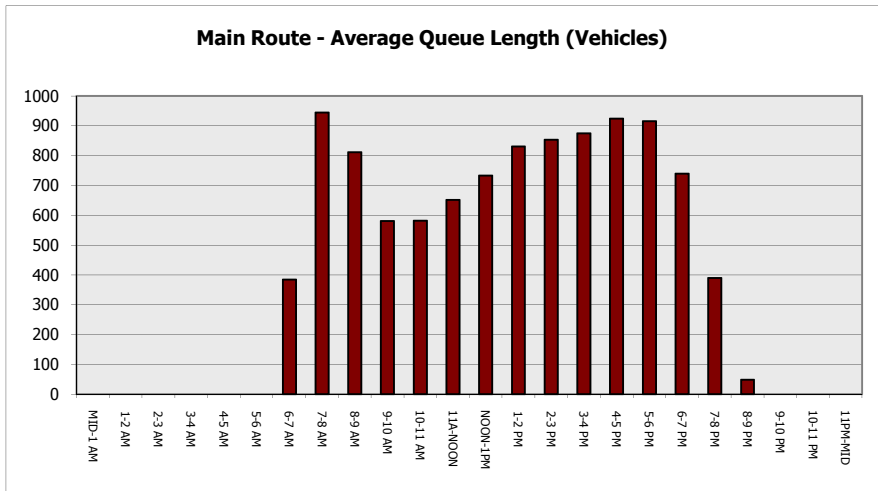
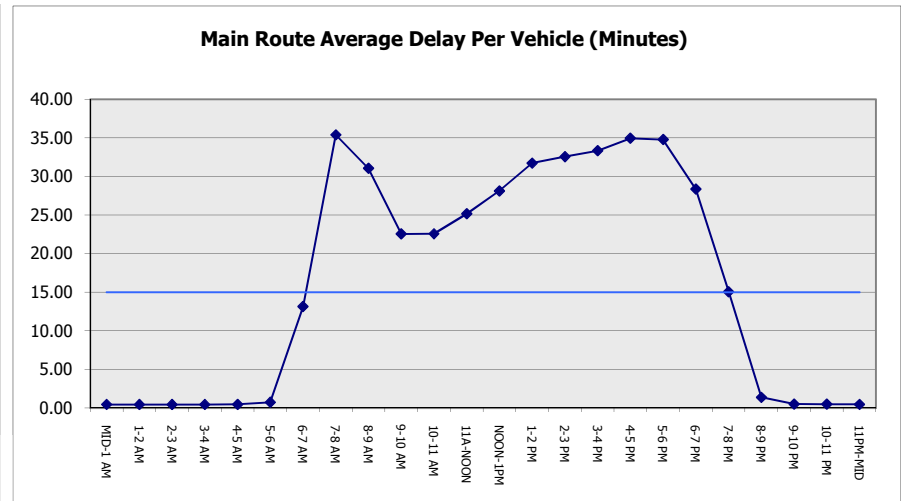
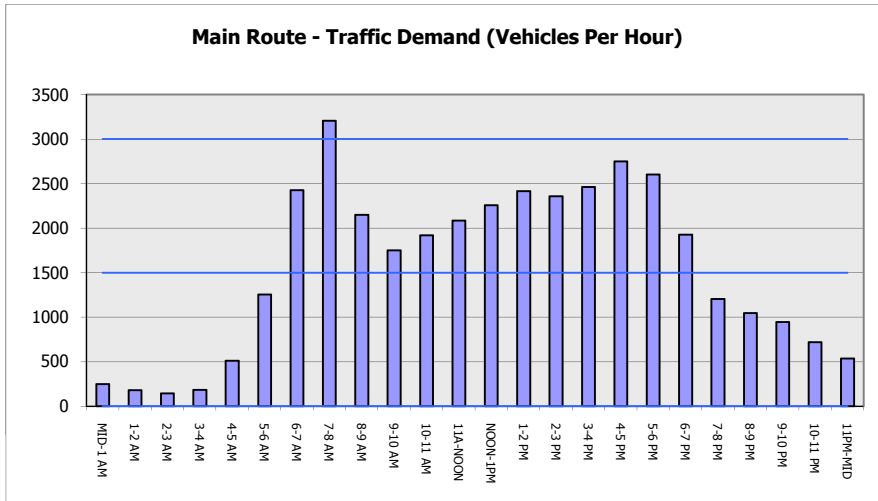
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$240,080
CONGESTED HOURS PER DAY*	13

*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
FRIDAY WESTBOUND DIRECTION



STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: PROSPECT AVENUE - STH 47	AUGUST
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SUMMARY OF TRAFFIC MODEL OUTPUT	
FRIDAY	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	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	1500	783	0	240	0.50	0	65.0	44.8	42.5	23.0	23.0
6-7 AM	1901	0.0	583	0.0	1499	1901	0	583	4.70	139	62.8	15.0	30.8	20.4	20.9
7-8 AM	2726	0.0	836	0.0	1499	2067	658	1494	29.63	787	58.6	6.4	30.8	18.4	16.8
8-9 AM	1984	0.0	608	0.0	1499	1145	839	1447	29.83	780	62.7	6.4	30.8	20.2	16.6
9-10 AM	1845	0.0	565	0.0	1499	1464	380	945	22.75	586	63.0	6.9	30.8	20.5	20.1
10-11 AM	2026	0.0	621	0.0	1500	1587	439	1060	24.03	621	62.6	6.8	30.8	20.1	19.3
11A-NOON	2324	0.0	712	0.0	1500	1652	672	1384	28.51	744	62.0	6.5	30.8	19.4	17.0
NOON-1PM	2499	0.0	766	0.0	1500	1621	878	1643+	33.32	875	60.9	6.2	30.8	18.9	15.3
1-2 PM	2683	0.0	822	0.0	1500	1508	1175	1998+	34.74	917	59.0	6.1	30.8	18.5	14.8
2-3 PM	3447	0.0	1057	0.0	1500	1500	1947	3004+	35.99	968	51.2	6.0	30.8	16.7	14.3
3-4 PM	3570	0.0	1094	0.0	1500	1500	2070	3164+	35.86	968	49.9	6.0	30.8	16.5	14.3
4-5 PM	4101	0.0	1257	0.0	1500	1500	2601	3857+	35.26	968	44.5	6.0	30.8	15.2	14.3
5-6 PM	3436	0.0	1053	0.0	1500	1500	1936	2989+	36.00	968	51.3	6.0	30.8	16.8	14.3
6-7 PM	2499	0.0	766	0.0	1500	1394	1104	1870+	34.24	900	60.9	6.1	30.8	18.9	15.0
7-8 PM	1848	0.0	566	0.0	1500	1212	636	1202	26.03	677	63.0	6.6	30.8	20.5	18.3
8-9 PM	1647	0.0	505	0.0	1500	1452	195	701	20.42	523	63.3	7.1	30.8	21.0	21.7
9-10 PM	1585	0.0	486	0.0	1500	1480	105	591	19.50	498	63.4	7.3	30.8	21.1	22.5
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

+ 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	0.0085
MAIN ROUTE WITH WORKS	0.0036
DIVERSION	0.2341

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$323,453
CONGESTED HOURS PER DAY*	16

*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE
 DIVERSION ROUTE: PROSPECT AVENUE - STH 47**

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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

