

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

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	330	0.0	101	0.0	1500	330	0	101	0.45	0	65.8	46.5	44.2	24.1	24.1
1-2 AM	208	0.0	64	0.0	1500	208	0	64	0.44	0	66.0	46.9	44.6	24.3	24.3
2-3 AM	211	0.0	65	0.0	1500	211	0	65	0.44	0	66.0	46.9	44.6	24.3	24.3
3-4 AM	128	0.0	39	0.0	1500	128	0	39	0.43	0	66.1	47.3	45.0	24.5	24.5
4-5 AM	145	0.0	44	0.0	1500	145	0	44	0.44	0	66.1	47.2	44.9	24.5	24.5
5-6 AM	261	0.0	80	0.0	1500	261	0	80	0.45	0	65.9	46.7	44.5	24.2	24.2
6-7 AM	349	0.0	107	0.0	1500	349	0	107	0.46	0	65.8	46.4	44.1	24.0	24.0
7-8 AM	443	0.0	136	0.0	1500	443	0	136	0.47	0	65.6	46.0	43.7	23.8	23.8
8-9 AM	719	0.0	220	0.0	1500	719	0	220	0.49	0	65.0	45.0	42.7	23.2	23.2
9-10 AM	1050	0.0	322	0.0	1499	1050	0	322	0.54	0	64.4	43.5	41.1	22.4	22.4
10-11 AM	1447	0.0	444	0.0	1499	1447	0	444	0.98	0	63.7	34.2	32.0	21.4	21.4
11A-NOON	1530	0.0	469	0.0	1499	1530	0	469	1.39	10	63.5	28.5	30.8	21.2	21.2
NOON-1PM	1684	0.0	517	0.0	1500	1684	0	517	5.41	127	63.2	13.2	30.8	20.9	21.4
1-2 PM	1455	0.0	446	0.0	1499	1455	0	446	8.56	203	63.7	10.2	30.8	21.4	22.3
2-3 PM	1414	0.0	433	0.0	1499	1414	0	433	5.77	129	63.8	12.6	30.8	21.5	22.0
3-4 PM	1446	0.0	444	0.0	1500	1446	0	444	2.93	52	63.7	18.5	30.8	21.4	21.5
4-5 PM	1619	0.0	496	0.0	1500	1619	0	496	4.15	89	63.3	15.2	30.8	21.1	21.4
5-6 PM	1513	0.0	464	0.0	1499	1513	0	464	7.30	169	63.6	11.1	30.8	21.3	22.0
6-7 PM	1234	0.0	378	0.0	1499	1234	0	378	2.08	65	64.1	24.2	35.4	21.9	22.2
7-8 PM	874	0.0	268	0.0	1500	874	0	268	0.51	0	64.8	44.5	42.1	22.8	22.8
8-9 PM	655	0.0	201	0.0	1500	655	0	201	0.49	0	65.1	45.3	42.9	23.3	23.3
9-10 PM	543	0.0	167	0.0	1500	543	0	167	0.48	0	65.4	45.6	43.3	23.5	23.5
10-11 PM	382	0.0	117	0.0	1500	382	0	117	0.46	0	65.7	46.3	44.0	24.0	24.0
11PM-MID	175	0.0	54	0.0	1500	175	0	54	0.44	0	66.1	47.1	44.8	24.4	24.4

----- 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	0.0038
MAIN ROUTE WITH WORKS	0.0025
DIVERSION	0.0485

PIA: Personal Injury Accidents

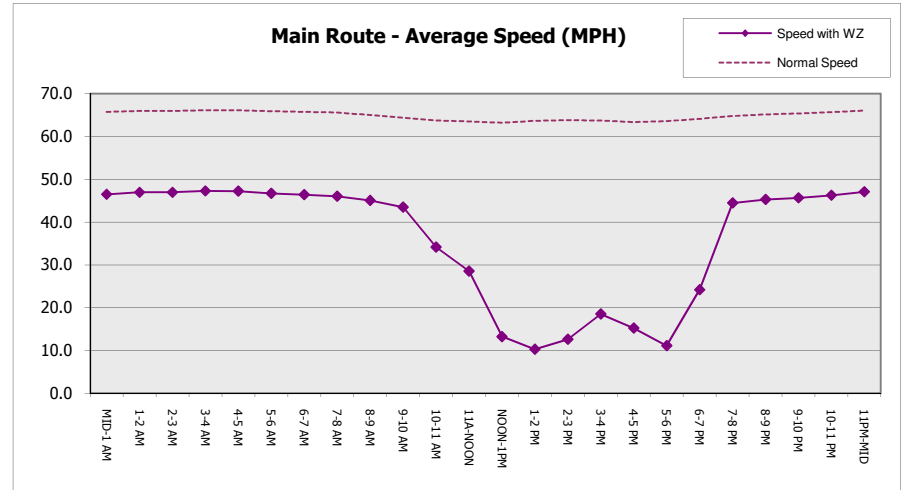
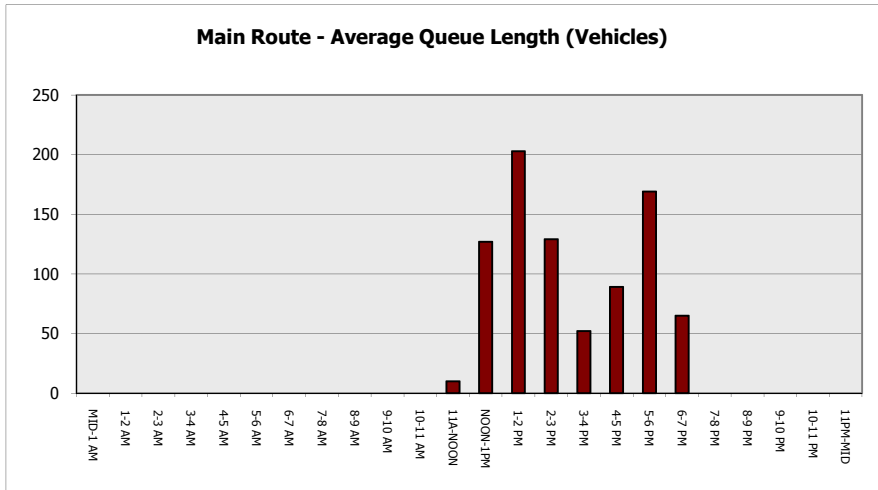
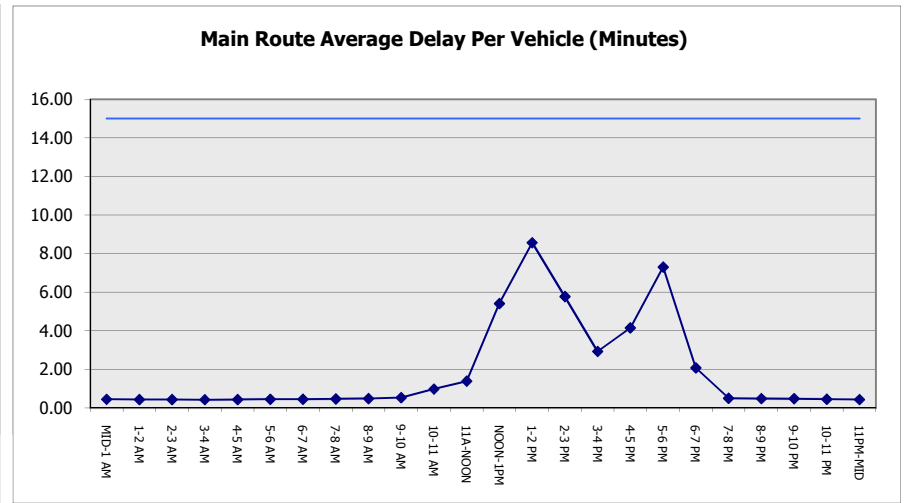
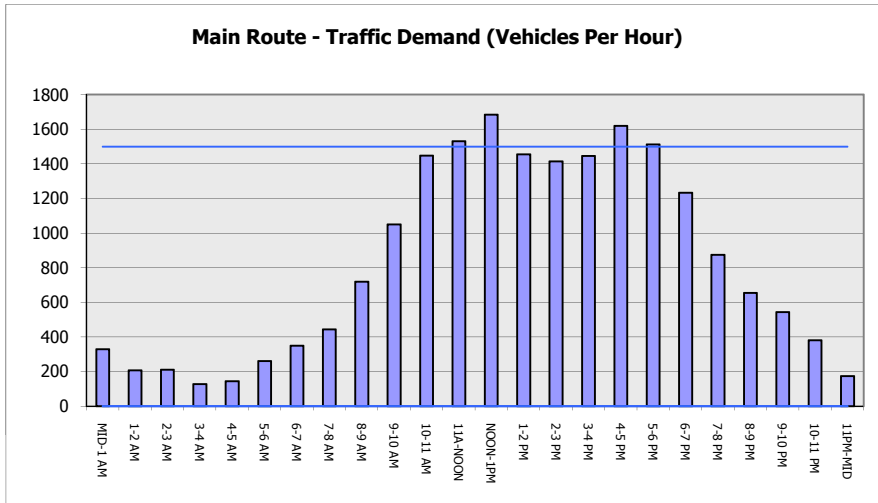
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$18,650
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY WESTBOUND DIRECTION



STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: PROSPECT AVENUE - STH 47	OCTOBER
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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	433	0.0	133	0.0	1500	433	0	133	0.46	0	65.6	46.1	43.8	23.8	23.8
1-2 AM	253	0.0	77	0.0	1500	253	0	77	0.45	0	65.9	46.8	44.5	24.2	24.2
2-3 AM	273	0.0	83	0.0	1500	273	0	83	0.45	0	65.9	46.7	44.4	24.2	24.2
3-4 AM	152	0.0	46	0.0	1500	152	0	46	0.44	0	66.1	47.1	44.9	24.5	24.5
4-5 AM	125	0.0	38	0.0	1500	125	0	38	0.43	0	66.1	47.3	45.0	24.5	24.5
5-6 AM	257	0.0	79	0.0	1500	257	0	79	0.45	0	65.9	46.8	44.5	24.2	24.2
6-7 AM	410	0.0	126	0.0	1500	410	0	126	0.46	0	65.6	46.1	43.8	23.8	23.8
7-8 AM	460	0.0	141	0.0	1500	460	0	141	0.47	0	65.5	46.0	43.7	23.8	23.8
8-9 AM	811	0.0	248	0.0	1500	811	0	248	0.50	0	64.9	44.7	42.4	22.9	22.9
9-10 AM	1207	0.0	370	0.0	1499	1207	0	370	0.64	0	64.1	40.9	38.4	22.0	22.0
10-11 AM	1527	0.0	468	0.0	1499	1527	0	468	1.38	13	63.5	28.6	31.4	21.2	21.2
11A-NOON	1861	0.0	570	0.0	1500	1861	0	570	8.58	224	62.9	10.5	30.8	20.5	21.4
NOON-1PM	1839	0.0	564	0.0	1499	1653	187	751	20.54	528	63.0	7.1	30.8	20.5	21.4
1-2 PM	1751	0.0	537	0.0	1499	1478	274	811	21.41	550	63.1	7.0	30.8	20.7	21.0
2-3 PM	1864	0.0	571	0.0	1500	1544	320	891	22.19	571	62.9	7.0	30.8	20.4	20.4
3-4 PM	1942	0.0	595	0.0	1499	1534	408	1003	23.37	603	62.8	6.8	30.8	20.2	19.6
4-5 PM	2146	0.0	658	0.0	1500	1587	559	1217	26.00	675	62.4	6.6	30.8	19.8	18.2
5-6 PM	2126	0.0	652	0.0	1499	1476	650	1301	27.21	707	62.4	6.5	30.8	19.9	17.6
6-7 PM	1827	0.0	560	0.0	1499	1362	464	1024	23.67	612	63.0	6.8	30.8	20.6	19.5
7-8 PM	1486	0.0	455	0.0	1500	1379	107	562	19.13	489	63.6	7.3	30.8	21.4	22.7
8-9 PM	1036	0.0	317	0.0	1499	1036	0	317	6.24	219	64.5	13.6	36.0	22.4	23.3
9-10 PM	765	0.0	235	0.0	1500	765	0	235	0.50	0	65.0	44.8	42.5	23.0	23.0
10-11 PM	585	0.0	179	0.0	1500	585	0	179	0.48	0	65.3	45.5	43.2	23.5	23.5
11PM-MID	316	0.0	97	0.0	1500	316	0	97	0.45	0	65.8	46.5	44.2	24.1	24.1

----- 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	0.0049
MAIN ROUTE WITH WORKS	0.0028
DIVERSION	0.0860

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$114,677
CONGESTED HOURS PER DAY*	8

*Delays Exceeding 15 Minutes

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY EASTBOUND DIRECTION

