

STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY) NIGHTTIME CLOSURE DIVERSION ROUTE: PROSPECT AVENUE - STH 47	OCTOBER
	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	165	0.0	50	0.0	1500	165	0	50	0.44	0	66.1	47.1	44.8	24.5	24.5
1-2 AM	132	0.0	40	0.0	1500	132	0	40	0.44	0	66.1	47.3	45.0	24.5	24.5
2-3 AM	129	0.0	39	0.0	1500	129	0	39	0.43	0	66.1	47.3	45.0	24.5	24.5
3-4 AM	132	0.0	40	0.0	1500	132	0	40	0.44	0	66.1	47.3	45.0	24.5	24.5
4-5 AM	468	0.0	143	0.0	1500	468	0	143	0.47	0	65.5	46.0	43.7	23.7	23.7
5-6 AM	1182	0.0	362	0.0	OFF	1182	0	362	0.00	0	64.2	64.2	64.2	22.0	22.0
6-7 AM	2315	0.0	710	0.0	OFF	2315	0	710	0.00	0	62.1	62.1	62.1	19.4	19.4
7-8 AM	3566	0.0	1093	0.0	OFF	3566	0	1093	0.00	0	50.0	50.0	50.0	16.5	16.5
8-9 AM	2338	0.0	716	0.0	OFF	2338	0	716	0.00	0	62.0	62.0	62.0	19.3	19.3
9-10 AM	1702	0.0	522	0.0	OFF	1702	0	522	0.00	0	63.2	63.2	63.2	20.9	20.9
10-11 AM	1742	0.0	534	0.0	OFF	1742	0	534	0.00	0	63.2	63.2	63.2	20.7	20.7
11A-NOON	1949	0.0	598	0.0	OFF	1949	0	598	0.00	0	62.8	62.8	62.8	20.2	20.2
NOON-1PM	2138	0.0	656	0.0	OFF	2138	0	656	0.00	0	62.4	62.4	62.4	19.8	19.8
1-2 PM	2260	0.0	693	0.0	OFF	2260	0	693	0.00	0	62.2	62.2	62.2	19.5	19.5
2-3 PM	2349	0.0	720	0.0	OFF	2349	0	720	0.00	0	62.0	62.0	62.0	19.3	19.3
3-4 PM	2755	0.0	845	0.0	OFF	2755	0	845	0.00	0	58.2	58.2	58.2	18.4	18.4
4-5 PM	2866	0.0	879	0.0	OFF	2866	0	879	0.00	0	57.1	57.1	57.1	18.1	18.1
5-6 PM	2643	0.0	810	0.0	OFF	2643	0	810	0.00	0	59.4	59.4	59.4	18.6	18.6
6-7 PM	1872	0.0	574	0.0	OFF	1872	0	574	0.00	0	62.9	62.9	62.9	20.4	20.4
7-8 PM	1202	0.0	369	0.0	1500	1202	0	369	0.64	0	64.1	40.9	38.4	22.0	22.0
8-9 PM	897	0.0	275	0.0	1500	897	0	275	0.51	0	64.7	44.4	42.0	22.7	22.7
9-10 PM	973	0.0	299	0.0	1500	973	0	299	0.52	0	64.6	44.1	41.8	22.5	22.5
10-11 PM	750	0.0	230	0.0	1500	750	0	230	0.50	0	65.0	44.9	42.6	23.1	23.1
11PM-MID	532	0.0	163	0.0	1500	532	0	163	0.47	0	65.4	45.7	43.4	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	0.0907

PIA: Personal Injury Accidents

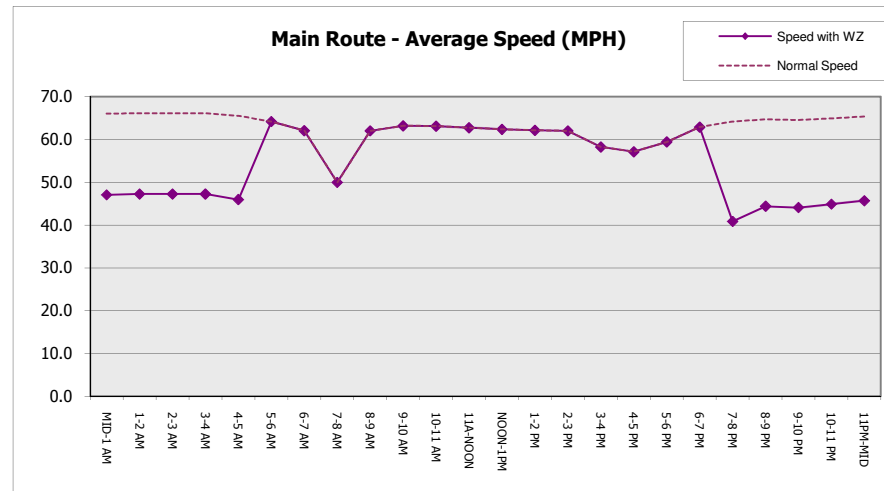
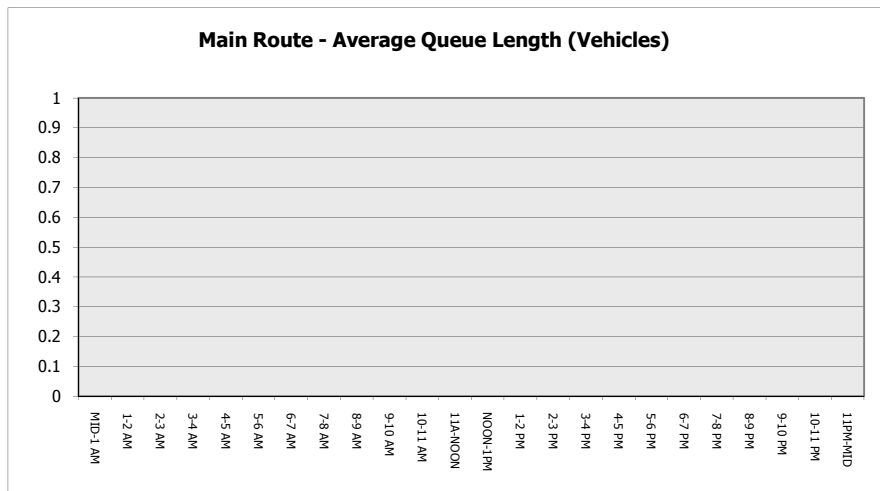
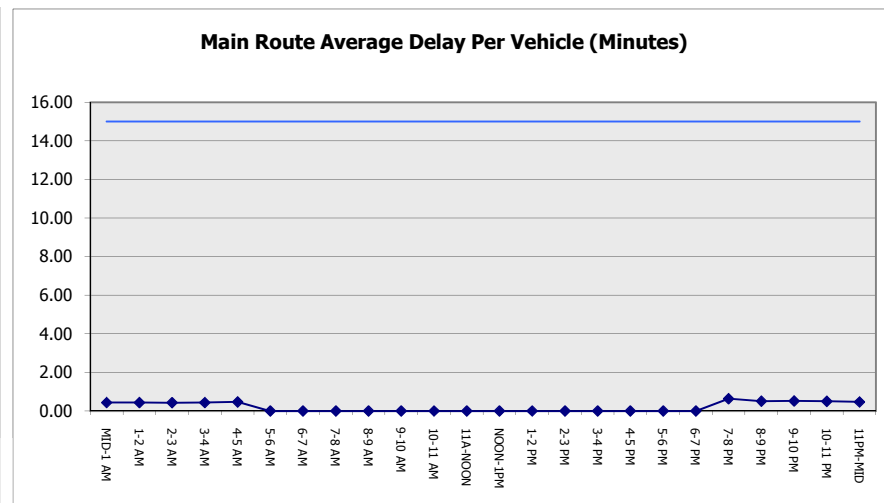
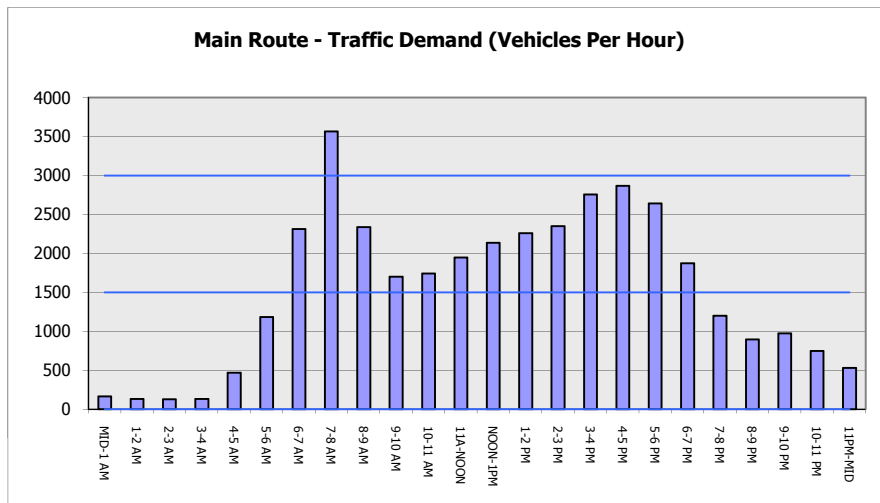
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$685
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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NIGHTTIME CLOSURE
DIVERSION ROUTE: PROSPECT AVENUE - STH 47

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY) NIGHTTIME CLOSURE DIVERSION ROUTE: PROSPECT AVENUE - STH 47	OCTOBER Analyzed for 2009 Construction Season
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SUMMARY OF TRAFFIC MODEL OUTPUT

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		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	366	0.0	112	0.0	1500	366	0	112	0.46	0	65.7	46.3	44.0	24.0	24.0
1-2 AM	240	0.0	73	0.0	1500	240	0	73	0.45	0	66.0	46.8	44.5	24.3	24.3
2-3 AM	191	0.0	59	0.0	1500	191	0	59	0.44	0	66.0	47.0	44.7	24.4	24.4
3-4 AM	110	0.0	34	0.0	1500	110	0	34	0.43	0	66.2	47.3	45.0	24.6	24.6
4-5 AM	214	0.0	66	0.0	1500	214	0	66	0.44	0	66.0	46.9	44.6	24.3	24.3
5-6 AM	736	0.0	225	0.0	OFF	736	0	225	0.00	0	65.0	65.0	65.0	23.1	23.1
6-7 AM	1887	0.0	579	0.0	OFF	1887	0	579	0.00	0	62.8	62.8	62.8	20.4	20.4
7-8 AM	2981	0.0	914	0.0	OFF	2981	0	914	0.00	0	56.0	56.0	56.0	17.8	17.8
8-9 AM	2308	0.0	707	0.0	OFF	2308	0	707	0.00	0	62.1	62.1	62.1	19.4	19.4
9-10 AM	1875	0.0	574	0.0	OFF	1875	0	574	0.00	0	62.9	62.9	62.9	20.4	20.4
10-11 AM	2036	0.0	624	0.0	OFF	2036	0	624	0.00	0	62.6	62.6	62.6	20.1	20.1
11A-NOON	2365	0.0	725	0.0	OFF	2365	0	725	0.00	0	62.0	62.0	62.0	19.3	19.3
NOON-1PM	2491	0.0	764	0.0	OFF	2491	0	764	0.00	0	61.0	61.0	61.0	19.0	19.0
1-2 PM	2656	0.0	814	0.0	OFF	2656	0	814	0.00	0	59.3	59.3	59.3	18.6	18.6
2-3 PM	3381	0.0	1037	0.0	OFF	3381	0	1037	0.00	0	51.9	51.9	51.9	16.9	16.9
3-4 PM	3939	0.0	1208	0.0	OFF	3939	0	1208	0.00	0	46.1	46.1	46.1	15.6	15.6
4-5 PM	4499	0.0	1379	0.0	OFF	4499	0	1379	0.00	0	40.4	40.4	40.4	14.3	14.3
5-6 PM	3889	0.0	1192	0.0	OFF	3889	0	1192	0.00	0	46.6	46.6	46.6	15.7	15.7
6-7 PM	2738	0.0	840	0.0	OFF	2738	0	840	0.00	0	58.4	58.4	58.4	18.4	18.4
7-8 PM	1745	0.0	535	0.0	1499	1745	0	535	6.61	162	63.2	11.9	30.8	20.7	21.4
8-9 PM	1460	0.0	448	0.0	1499	1460	0	448	9.87	238	63.7	9.6	30.8	21.4	22.4
9-10 PM	1303	0.0	399	0.0	1499	1303	0	399	4.68	114	64.0	14.5	32.2	21.8	22.2
10-11 PM	1179	0.0	361	0.0	1500	1179	0	361	0.61	0	64.2	41.5	39.2	22.0	22.0
11PM-MID	783	0.0	240	0.0	1500	783	0	240	0.50	0	65.0	44.8	42.5	23.0	23.0

"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	0.0087
MAIN ROUTE WITH WORKS	0.0082
DIVERSION	0.1111

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$8,173
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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NIGHTTIME CLOSURE
DIVERSION ROUTE: PROSPECT AVENUE - STH 47

OCTOBER
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

