

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51	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	426	0.0	253	0.0	1500	426	0	253	0.52	0	70.2	48.7	43.8	38.4	38.4
1-2 AM	263	0.0	156	0.0	1500	263	0	156	0.50	0	70.2	49.4	44.4	38.9	38.9
2-3 AM	178	0.0	106	0.0	1500	178	0	106	0.49	0	70.2	49.6	44.8	39.2	39.2
3-4 AM	180	0.0	107	0.0	1500	180	0	107	0.49	0	70.2	49.6	44.8	39.2	39.2
4-5 AM	302	0.0	179	0.0	1500	302	0	179	0.51	0	70.2	49.2	44.3	38.8	38.8
5-6 AM	1104	0.0	655	0.0	OFF	1104	0	655	0.00	0	69.4	69.4	69.4	36.4	36.4
6-7 AM	2887	0.0	1715	0.0	OFF	2887	0	1715+	0.00	0	67.1	67.1	67.1	30.9	30.9
7-8 AM	3913	0.0	2324	0.0	OFF	3913	0	2324+	0.00	0	64.1	64.1	64.1	27.8	27.8
8-9 AM	3068	0.0	1822	0.0	OFF	3068	0	1822+	0.00	0	66.9	66.9	66.9	30.4	30.4
9-10 AM	2481	0.0	1473	0.0	OFF	2481	0	1473+	0.00	0	67.6	67.6	67.6	32.2	32.2
10-11 AM	2390	0.0	1420	0.0	OFF	2390	0	1420+	0.00	0	67.8	67.8	67.8	32.4	32.4
11A-NOON	2614	0.0	1552	0.0	OFF	2614	0	1552+	0.00	0	67.5	67.5	67.5	31.8	31.8
NOON-1PM	2735	0.0	1624	0.0	OFF	2735	0	1624+	0.00	0	67.3	67.3	67.3	31.4	31.4
1-2 PM	2797	0.0	1661	0.0	OFF	2797	0	1661+	0.00	0	67.3	67.3	67.3	31.2	31.2
2-3 PM	2914	0.0	1731	0.0	OFF	2914	0	1731+	0.00	0	67.1	67.1	67.1	30.9	30.9
3-4 PM	3059	0.0	1817	0.0	OFF	3059	0	1817+	0.00	0	66.9	66.9	66.9	30.4	30.4
4-5 PM	3096	0.0	1838	0.0	OFF	3096	0	1838+	0.00	0	66.9	66.9	66.9	30.3	30.3
5-6 PM	2967	0.0	1762	0.0	OFF	2967	0	1762+	0.00	0	67.1	67.1	67.1	30.7	30.7
6-7 PM	2419	0.0	1437	0.0	OFF	2419	0	1437+	0.00	0	67.8	67.8	67.8	32.4	32.4
7-8 PM	1864	0.0	1107	0.0	1499	1864	0	1107	8.14	208	68.4	10.2	30.8	34.0	34.3
8-9 PM	1580	0.0	939	0.0	1499	1519	61	999	15.82	385	68.7	6.8	30.8	34.9	35.1
9-10 PM	1415	0.0	840	0.0	1499	1413	2	842	14.60	354	69.0	7.1	30.8	35.4	35.8
10-11 PM	1075	0.0	638	0.0	1499	1075	0	638	2.81	119	69.4	22.1	37.2	36.5	36.6
11PM-MID	785	0.0	466	0.0	1500	785	0	466	0.56	0	69.7	47.5	42.5	37.3	37.3

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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	0.0103
MAIN ROUTE WITH WORKS	0.0098
DIVERSION	0.0427

PIA: Personal Injury Accidents

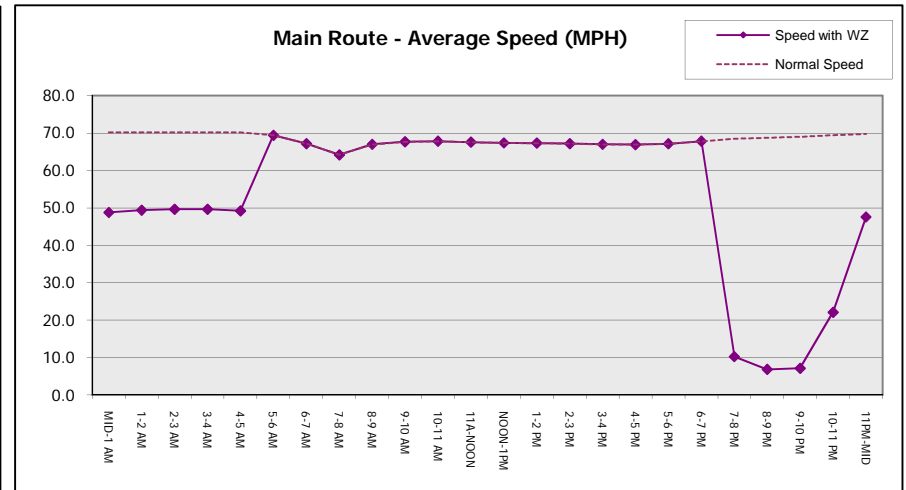
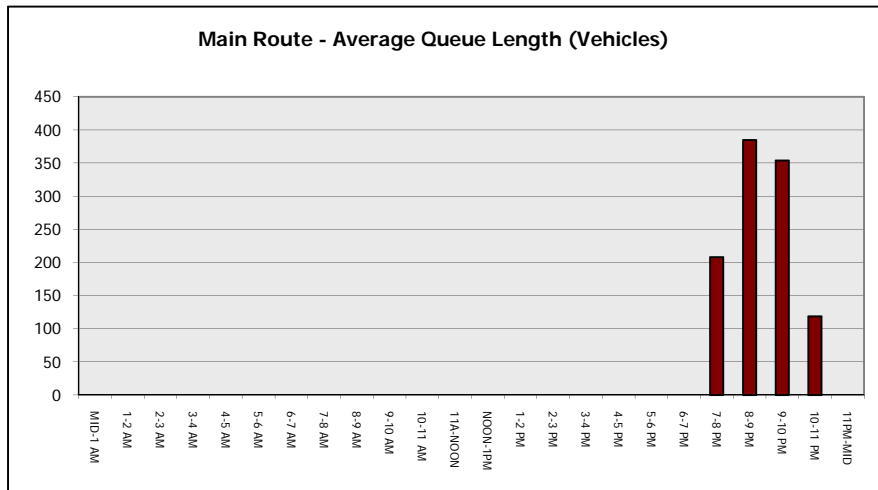
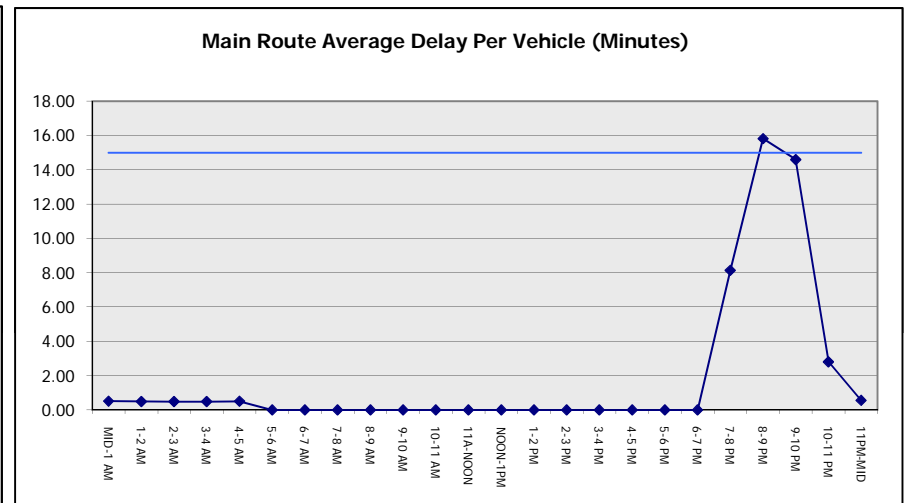
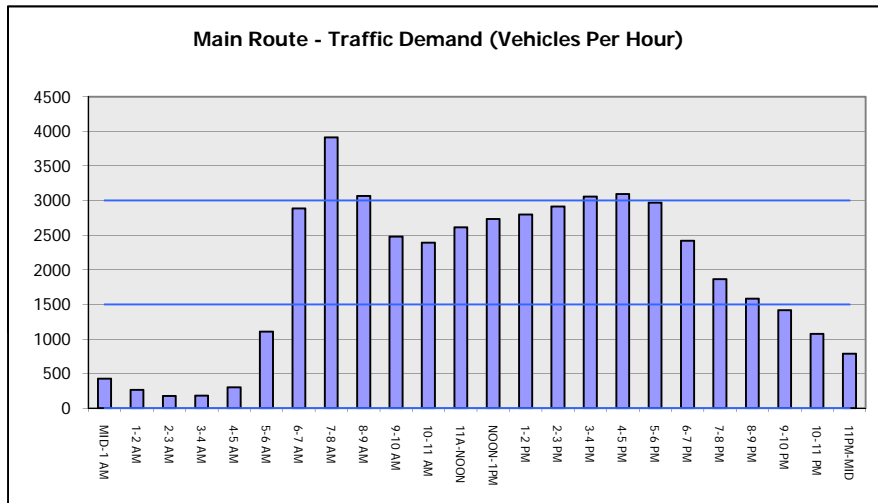
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$16,382
CONGESTED HOURS PER DAY*	1

*Delays Exceeding 15 Minutes

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
NIGHTTIME 2 LANE CLOSURE
DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51	AUGUST 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		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	328	0.0	195	0.0	1500	328	0	195	0.51	0	70.2	49.1	44.2	38.8	38.8
1-2 AM	230	0.0	136	0.0	1500	230	0	136	0.50	0	70.2	49.4	44.6	39.1	39.1
2-3 AM	204	0.0	121	0.0	1500	204	0	121	0.50	0	70.2	49.6	44.6	39.1	39.1
3-4 AM	181	0.0	108	0.0	1500	181	0	108	0.49	0	70.2	49.6	44.8	39.2	39.2
4-5 AM	314	0.0	186	0.0	1500	314	0	186	0.51	0	70.2	49.2	44.2	38.8	38.8
5-6 AM	796	0.0	473	0.0	OFF	796	0	473	0.00	0	69.7	69.7	69.7	37.3	37.3
6-7 AM	1869	0.0	1110	0.0	OFF	1869	0	1110	0.00	0	68.4	68.4	68.4	34.0	34.0
7-8 AM	2692	0.0	1599	0.0	OFF	2692	0	1599+	0.00	0	67.4	67.4	67.4	31.5	31.5
8-9 AM	2345	0.0	1393	0.0	OFF	2345	0	1393+	0.00	0	67.8	67.8	67.8	32.6	32.6
9-10 AM	2205	0.0	1309	0.0	OFF	2205	0	1309+	0.00	0	68.0	68.0	68.0	33.0	33.0
10-11 AM	2400	0.0	1425	0.0	OFF	2400	0	1425+	0.00	0	67.8	67.8	67.8	32.4	32.4
11A-NOON	2743	0.0	1629	0.0	OFF	2743	0	1629+	0.00	0	67.3	67.3	67.3	31.4	31.4
NOON-1PM	3116	0.0	1851	0.0	OFF	3116	0	1851+	0.00	0	66.9	66.9	66.9	30.2	30.2
1-2 PM	3177	0.0	1887	0.0	OFF	3177	0	1887+	0.00	0	66.8	66.8	66.8	30.1	30.1
2-3 PM	3509	0.0	2083	0.0	OFF	3509	0	2083+	0.00	0	66.4	66.4	66.4	29.0	29.0
3-4 PM	4069	0.0	2416	0.0	OFF	4069	0	2416+	0.00	0	63.0	63.0	63.0	27.3	27.3
4-5 PM	4084	0.0	2426	0.0	OFF	4084	0	2426+	0.00	0	63.0	63.0	63.0	27.3	27.3
5-6 PM	3617	0.0	2148	0.0	OFF	3617	0	2148+	0.00	0	66.1	66.1	66.1	28.7	28.7
6-7 PM	2486	0.0	1476	0.0	OFF	2486	0	1476+	0.00	0	67.6	67.6	67.6	32.2	32.2
7-8 PM	1780	0.0	1057	0.0	1499	1780	0	1057	6.95	170	68.5	11.2	30.8	34.3	34.5
8-9 PM	1524	0.0	905	0.0	1499	1524	0	905	12.74	305	68.9	7.7	30.8	35.1	35.5
9-10 PM	1355	0.0	805	0.0	1499	1355	0	805	10.29	244	69.1	8.8	30.8	35.6	35.8
10-11 PM	1092	0.0	649	0.0	1500	1092	0	649	1.37	37	69.4	32.7	38.7	36.4	36.4
11PM-MID	752	0.0	447	0.0	1500	752	0	447	0.56	0	69.8	47.6	42.5	37.4	37.4

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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	0.0104
MAIN ROUTE WITH WORKS	0.0099
DIVERSION	0.0430

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$12,174
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
NIGHTTIME 2 LANE CLOSURE
DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

