

<b>USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51</b>	<b>OCTOBER</b>
	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	713	0.0	423	0.0	1500	713	0	423	0.56	0	69.9	47.8	42.7	37.6	37.6
1-2 AM	484	0.0	288	0.0	1500	484	0	288	0.53	0	70.1	48.6	43.6	38.3	38.3
2-3 AM	300	0.0	178	0.0	1500	300	0	178	0.51	0	70.2	49.2	44.3	38.8	38.8
3-4 AM	250	0.0	149	0.0	1500	250	0	149	0.50	0	70.2	49.4	44.5	39.0	39.0
4-5 AM	171	0.0	102	0.0	1500	171	0	102	0.49	0	70.2	49.7	44.8	39.2	39.2
5-6 AM	125	0.0	73	0.0	1500	125	0	73	0.49	0	70.2	49.9	45.0	39.4	39.4
6-7 AM	184	0.0	109	0.0	1500	184	0	109	0.49	0	70.2	49.6	44.8	39.2	39.2
7-8 AM	383	0.0	227	0.0	1500	383	0	227	0.52	0	70.2	48.9	44.0	38.6	38.6
8-9 AM	470	0.0	278	0.0	1500	470	0	278	0.53	0	70.2	48.6	43.6	38.3	38.3
9-10 AM	754	0.0	448	0.0	OFF	754	0	448	0.00	0	69.8	69.8	69.8	37.4	37.4
10-11 AM	1266	0.0	752	0.0	OFF	1266	0	752	0.00	0	69.2	69.2	69.2	35.9	35.9
11A-NOON	1747	0.0	1038	0.0	OFF	1747	0	1038	0.00	0	68.6	68.6	68.6	34.4	34.4
NOON-1PM	2052	0.0	1218	0.0	OFF	2052	0	1218+	0.00	0	68.2	68.2	68.2	33.5	33.5
1-2 PM	2236	0.0	1328	0.0	OFF	2236	0	1328+	0.00	0	67.9	67.9	67.9	32.9	32.9
2-3 PM	2114	0.0	1256	0.0	OFF	2114	0	1256+	0.00	0	68.1	68.1	68.1	33.3	33.3
3-4 PM	2138	0.0	1269	0.0	OFF	2138	0	1269+	0.00	0	68.1	68.1	68.1	33.2	33.2
4-5 PM	2173	0.0	1290	0.0	OFF	2173	0	1290+	0.00	0	68.1	68.1	68.1	33.1	33.1
5-6 PM	2126	0.0	1263	0.0	OFF	2126	0	1263+	0.00	0	68.1	68.1	68.1	33.2	33.2
6-7 PM	2026	0.0	1202	0.0	OFF	2026	0	1202+	0.00	0	68.2	68.2	68.2	33.5	33.5
7-8 PM	1872	0.0	1111	0.0	1499	1872	0	1111	7.80	201	68.4	10.6	30.8	34.0	34.2
8-9 PM	1536	0.0	912	0.0	1499	1487	49	961	15.65	381	68.8	6.9	30.8	35.0	35.3
9-10 PM	1234	0.0	732	0.0	1499	1234	0	732	9.81	244	69.2	9.1	32.1	36.0	36.2
10-11 PM	938	0.0	557	0.0	1500	938	0	557	0.76	8	69.6	42.7	41.9	36.9	36.9
11PM-MID	653	0.0	388	0.0	1500	653	0	388	0.55	0	69.9	47.9	42.9	37.8	37.8

"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 (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (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 (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (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	0.0062
MAIN ROUTE WITH WORKS	0.0056
DIVERSION	0.0257

PIA: Personal Injury Accidents

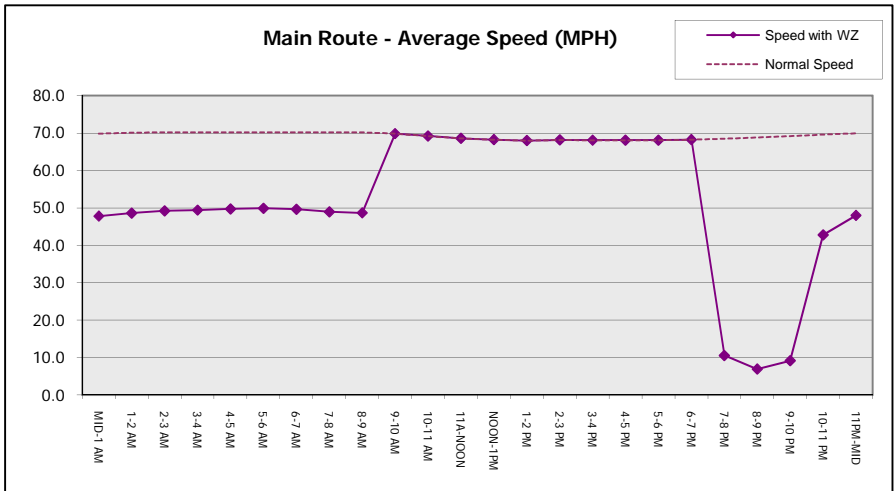
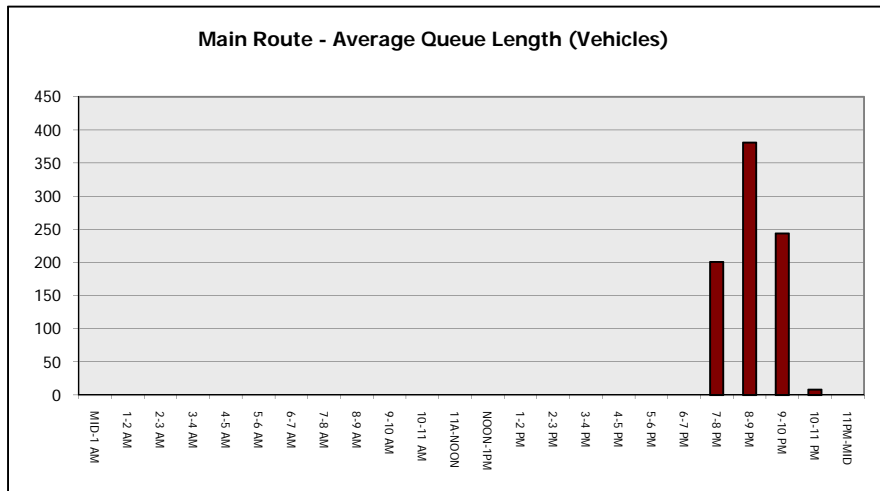
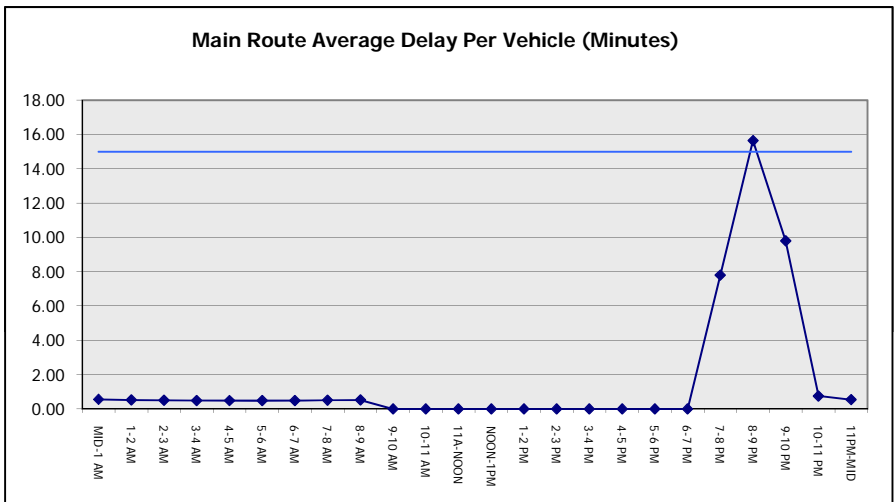
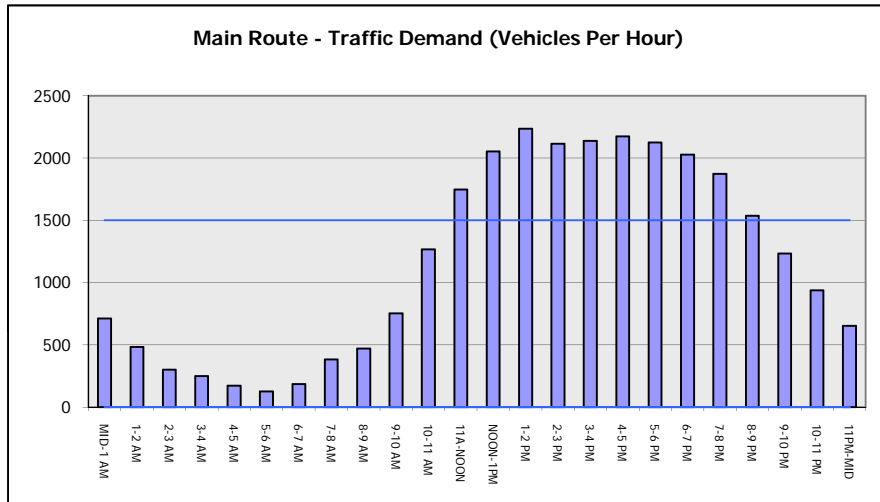
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$14,867
CONGESTED HOURS PER DAY*	1

\*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**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY WESTBOUND DIRECTION**



<b>USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH			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	1591	0.0	945	0.0	1499	1591	0	945	2.46	40	68.7	22.8	30.8	34.9	34.9
1-2 AM	651	0.0	387	0.0	1500	651	0	387	0.66	5	69.9	45.1	42.9	37.8	37.8
2-3 AM	348	0.0	207	0.0	1500	348	0	207	0.52	0	70.2	49.1	44.1	38.7	38.7
3-4 AM	285	0.0	168	0.0	1500	285	0	168	0.51	0	70.2	49.2	44.3	38.9	38.9
4-5 AM	188	0.0	112	0.0	1500	188	0	112	0.50	0	70.2	49.6	44.7	39.2	39.2
5-6 AM	148	0.0	88	0.0	1500	148	0	88	0.49	0	70.2	49.7	44.9	39.3	39.3
6-7 AM	216	0.0	128	0.0	1500	216	0	128	0.50	0	70.2	49.5	44.6	39.1	39.1
7-8 AM	358	0.0	212	0.0	1500	358	0	212	0.52	0	70.2	49.0	44.0	38.6	38.6
8-9 AM	743	0.0	442	0.0	1500	743	0	442	0.56	0	69.8	47.6	42.6	37.4	37.4
9-10 AM	1151	0.0	683	0.0	OFF	1151	0	683	0.00	0	69.3	69.3	69.3	36.2	36.2
10-11 AM	1682	0.0	998	0.0	OFF	1682	0	998	0.00	0	68.6	68.6	68.6	34.6	34.6
11A-NOON	2089	0.0	1240	0.0	OFF	2089	0	1240+	0.00	0	68.1	68.1	68.1	33.3	33.3
NOON-1PM	2303	0.0	1368	0.0	OFF	2303	0	1368+	0.00	0	67.9	67.9	67.9	32.7	32.7
1-2 PM	2409	0.0	1430	0.0	OFF	2409	0	1430+	0.00	0	67.8	67.8	67.8	32.4	32.4
2-3 PM	2410	0.0	1432	0.0	OFF	2410	0	1432+	0.00	0	67.8	67.8	67.8	32.4	32.4
3-4 PM	2450	0.0	1455	0.0	OFF	2450	0	1455+	0.00	0	67.7	67.7	67.7	32.3	32.3
4-5 PM	2587	0.0	1536	0.0	OFF	2587	0	1536+	0.00	0	67.5	67.5	67.5	31.9	31.9
5-6 PM	2407	0.0	1429	0.0	OFF	2407	0	1429+	0.00	0	67.8	67.8	67.8	32.4	32.4
6-7 PM	2079	0.0	1235	0.0	OFF	2079	0	1235+	0.00	0	68.1	68.1	68.1	33.4	33.4
7-8 PM	1760	0.0	1045	0.0	1499	1760	0	1045	6.28	152	68.6	12.0	30.8	34.3	34.5
8-9 PM	1371	0.0	814	0.0	1499	1371	0	814	9.32	219	69.1	9.3	30.9	35.6	35.8
9-10 PM	998	0.0	592	0.0	1500	998	0	592	0.97	20	69.5	38.6	40.9	36.7	36.7
10-11 PM	714	0.0	424	0.0	1500	714	0	424	0.56	0	69.9	47.8	42.7	37.6	37.6
11PM-MID	510	0.0	302	0.0	1500	510	0	302	0.53	0	70.1	48.4	43.5	38.2	38.2

"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	0.0070
MAIN ROUTE WITH WORKS	0.0063
DIVERSION	0.0288

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$8,629
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**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY EASTBOUND DIRECTION**

