

<b>USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51</b>	<b>AUGUST</b>
	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	3000	426	0	253	0.36	0	70.2	54.0	49.7	38.4	38.4
1-2 AM	263	0.0	156	0.0	3000	263	0	156	0.36	0	70.2	54.0	49.7	38.9	38.9
2-3 AM	178	0.0	106	0.0	3000	178	0	106	0.36	0	70.2	54.0	49.7	39.2	39.2
3-4 AM	180	0.0	107	0.0	3000	180	0	107	0.36	0	70.2	54.0	49.7	39.2	39.2
4-5 AM	302	0.0	179	0.0	3000	302	0	179	0.36	0	70.2	54.0	49.7	38.8	38.8
5-6 AM	1104	0.0	655	0.0	3000	1104	0	655	0.35	0	69.4	53.8	49.7	36.4	36.4
6-7 AM	2887	0.0	1715	0.0	2999	2887	0	1715+	0.91	29	67.1	38.9	41.6	30.9	30.9
7-8 AM	3913	0.0	2324	0.0	3000	3913	0	2324+	10.09	570	64.1	11.6	37.3	27.8	28.8
8-9 AM	3068	0.0	1822	0.0	2999	2906	162	1984+	19.23	1020	66.9	8.9	37.3	30.4	31.3
9-10 AM	2481	0.0	1473	0.0	2999	2481	0	1473+	13.23	700	67.6	10.2	37.4	32.2	33.3
10-11 AM	2390	0.0	1420	0.0	2999	2390	0	1420+	1.68	140	67.8	30.7	45.1	32.4	32.6
11A-NOON	2614	0.0	1552	0.0	3000	2614	0	1552+	0.48	0	67.5	48.8	44.2	31.8	31.8
NOON-1PM	2735	0.0	1624	0.0	3000	2735	0	1624+	0.56	0	67.3	46.6	41.8	31.4	31.4
1-2 PM	2797	0.0	1661	0.0	3000	2797	0	1661+	0.60	0	67.3	45.5	40.6	31.2	31.2
2-3 PM	2914	0.0	1731	0.0	2999	2914	0	1731+	0.67	0	67.1	43.7	38.6	30.9	30.9
3-4 PM	3059	0.0	1817	0.0	2999	3059	0	1817+	1.13	23	66.9	35.2	37.3	30.4	30.4
4-5 PM	3096	0.0	1838	0.0	3000	3096	0	1838+	2.67	109	66.9	21.8	37.3	30.3	30.4
5-6 PM	2967	0.0	1762	0.0	2999	2967	0	1762+	3.61	159	67.1	18.5	37.3	30.7	30.8
6-7 PM	2419	0.0	1437	0.0	3000	2419	0	1437+	0.58	16	67.8	46.3	46.9	32.4	32.4
7-8 PM	1864	0.0	1107	0.0	3000	1864	0	1107	0.34	0	68.4	53.7	49.7	34.0	34.0
8-9 PM	1580	0.0	939	0.0	3000	1580	0	939	0.34	0	68.7	53.7	49.7	34.9	34.9
9-10 PM	1415	0.0	840	0.0	3000	1415	0	840	0.34	0	69.0	53.8	49.7	35.4	35.4
10-11 PM	1075	0.0	638	0.0	3000	1075	0	638	0.35	0	69.4	53.8	49.7	36.5	36.5
11PM-MID	785	0.0	466	0.0	3000	785	0	466	0.35	0	69.7	53.9	49.7	37.3	37.3

+ 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	0.0103
MAIN ROUTE WITH WORKS	0.0073
DIVERSION	0.0429

PIA: Personal Injury Accidents

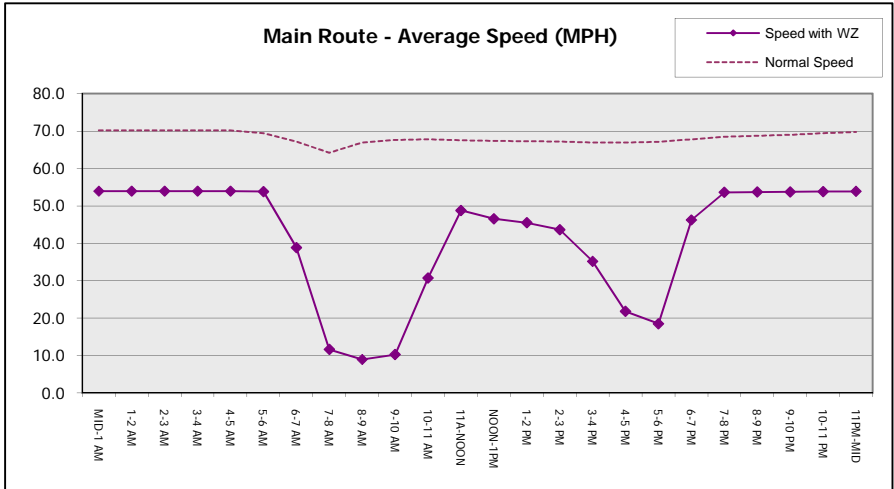
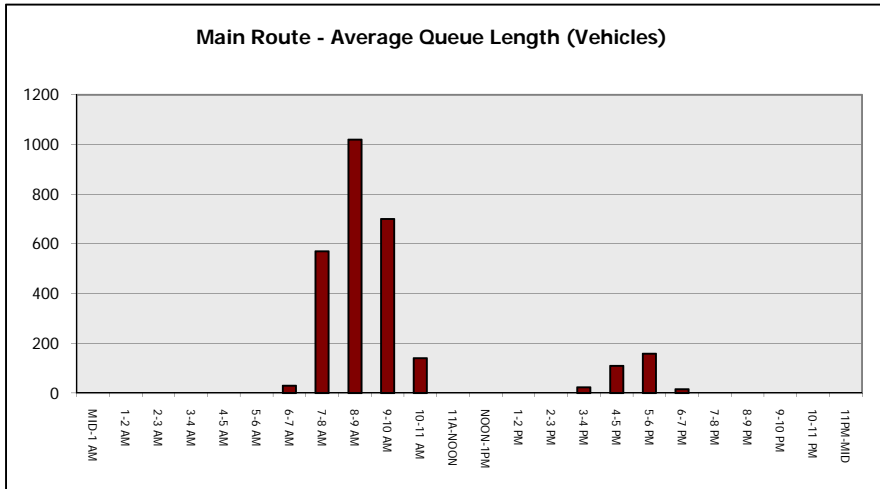
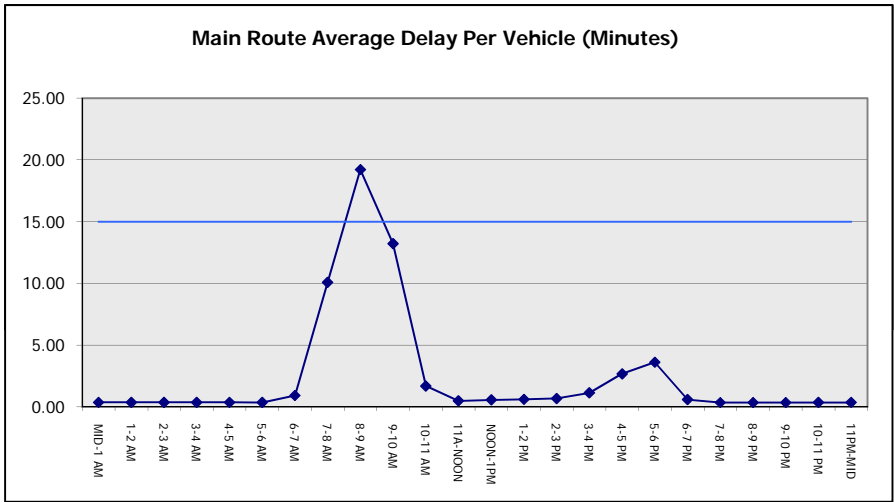
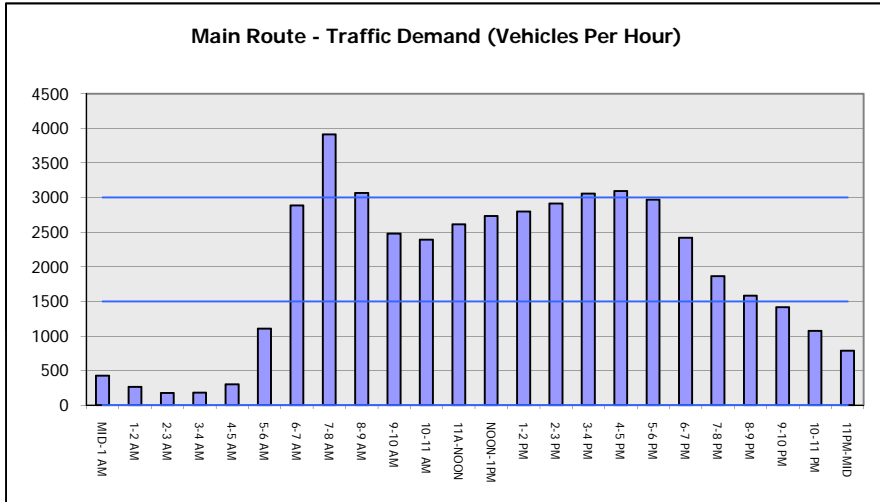
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$42,665
CONGESTED HOURS PER DAY*	1

\*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)**  
**CONTINUOUS (24 HOUR) 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**



<b>USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**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	328	0.0	195	0.0	3000	328	0	195	0.36	0	70.2	54.0	49.7	38.8	38.8
1-2 AM	230	0.0	136	0.0	3000	230	0	136	0.36	0	70.2	54.0	49.7	39.1	39.1
2-3 AM	204	0.0	121	0.0	3000	204	0	121	0.36	0	70.2	54.0	49.7	39.1	39.1
3-4 AM	181	0.0	108	0.0	3000	181	0	108	0.36	0	70.2	54.0	49.7	39.2	39.2
4-5 AM	314	0.0	186	0.0	3000	314	0	186	0.36	0	70.2	54.0	49.7	38.8	38.8
5-6 AM	796	0.0	473	0.0	3000	796	0	473	0.35	0	69.7	53.9	49.7	37.3	37.3
6-7 AM	1869	0.0	1110	0.0	3000	1869	0	1110	0.34	0	68.4	53.7	49.7	34.0	34.0
7-8 AM	2692	0.0	1599	0.0	3000	2692	0	1599+	0.53	0	67.4	47.3	42.6	31.5	31.5
8-9 AM	2345	0.0	1393	0.0	3000	2345	0	1393+	0.33	0	67.8	53.6	49.7	32.6	32.6
9-10 AM	2205	0.0	1309	0.0	3000	2205	0	1309+	0.33	0	68.0	53.6	49.7	33.0	33.0
10-11 AM	2400	0.0	1425	0.0	3000	2400	0	1425+	0.34	0	67.8	53.3	49.3	32.4	32.4
11A-NOON	2743	0.0	1629	0.0	2999	2743	0	1629+	0.56	0	67.3	46.5	41.7	31.4	31.4
NOON-1PM	3116	0.0	1851	0.0	2999	3116	0	1851+	1.43	44	66.9	31.2	37.3	30.2	30.2
1-2 PM	3177	0.0	1887	0.0	2999	3177	0	1887+	4.12	192	66.8	17.3	37.3	30.1	30.2
2-3 PM	3509	0.0	2083	0.0	3000	3509	0	2083+	9.84	519	66.4	11.5	37.3	29.0	29.9
3-4 PM	4069	0.0	2416	0.0	3000	3633	436	2852+	22.06	1195	63.0	8.6	37.3	27.3	27.3
4-5 PM	4084	0.0	2426	0.0	2999	3000	1084	3510+	26.91	1456	63.0	8.2	37.3	27.3	24.3
5-6 PM	3617	0.0	2148	0.0	2999	2709	908	3057+	24.30	1303	66.1	8.4	37.3	28.7	26.3
6-7 PM	2486	0.0	1476	0.0	2999	2351	135	1611+	15.64	835	67.6	9.7	37.6	32.2	32.8
7-8 PM	1780	0.0	1057	0.0	3000	1780	0	1057	1.12	111	68.5	37.4	49.6	34.3	34.5
8-9 PM	1524	0.0	905	0.0	3000	1524	0	905	0.34	0	68.9	53.7	49.7	35.1	35.1
9-10 PM	1355	0.0	805	0.0	3000	1355	0	805	0.35	0	69.1	53.8	49.7	35.6	35.6
10-11 PM	1092	0.0	649	0.0	3000	1092	0	649	0.35	0	69.4	53.8	49.7	36.4	36.4
11PM-MID	752	0.0	447	0.0	3000	752	0	447	0.35	0	69.8	53.9	49.7	37.4	37.4

+ 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	0.0069
DIVERSION	0.0469

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$96,791
CONGESTED HOURS PER DAY*	4

\*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)**  
**CONTINUOUS (24 HOUR) 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**

