

<b>USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)</b> <b>CONTINUOUS (24 HOUR) 2 LANE 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	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	1499	1104	0	655	0.76	0	69.4	42.7	37.4	36.4	36.4
6-7 AM	2887	0.0	1715	0.0	1499	2204	683	2398+	16.55	446	67.1	7.0	30.8	30.9	28.0
7-8 AM	3913	0.0	2324	0.0	1500	1791	2122	4446+	35.29	902	64.1	4.8	30.8	27.8	17.9
8-9 AM	3068	0.0	1822	0.0	1499	1104	1964	3786+	29.31	745	66.9	5.2	30.8	30.4	21.0
9-10 AM	2481	0.0	1473	0.0	1500	1399	1082	2555+	21.21	528	67.6	6.0	30.8	32.2	27.4
10-11 AM	2390	0.0	1420	0.0	1499	1503	887	2307+	20.08	497	67.8	6.1	30.8	32.4	28.6
11A-NOON	2614	0.0	1552	0.0	1499	1547	1066	2618+	21.41	532	67.5	5.9	30.8	31.8	27.1
NOON-1PM	2735	0.0	1624	0.0	1500	1524	1212	2835+	22.54	562	67.3	5.8	30.8	31.4	26.0
1-2 PM	2797	0.0	1661	0.0	1500	1515	1282	2942+	23.16	579	67.3	5.7	30.8	31.2	25.4
2-3 PM	2914	0.0	1731	0.0	1500	1534	1380	3110+	24.20	606	67.1	5.6	30.8	30.9	24.5
3-4 PM	3059	0.0	1817	0.0	1500	1540	1519	3335+	25.73	646	66.9	5.5	30.8	30.4	23.2
4-5 PM	3096	0.0	1838	0.0	1500	1501	1595	3434+	26.48	666	66.9	5.4	30.8	30.3	22.7
5-6 PM	2967	0.0	1762	0.0	1500	1439	1528	3290+	25.47	639	67.1	5.5	30.8	30.7	23.4
6-7 PM	2419	0.0	1437	0.0	1500	1377	1042	2479+	20.89	520	67.8	6.0	30.8	32.4	27.8
7-8 PM	1864	0.0	1107	0.0	1500	1431	433	1540+	17.40	427	68.4	6.5	30.8	34.0	32.4
8-9 PM	1580	0.0	939	0.0	1499	1473	107	1045	15.99	389	68.7	6.8	30.8	34.9	34.8
9-10 PM	1415	0.0	840	0.0	1499	1412	2	843	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

+ 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	0.0045
DIVERSION	0.0703

PIA: Personal Injury Accidents

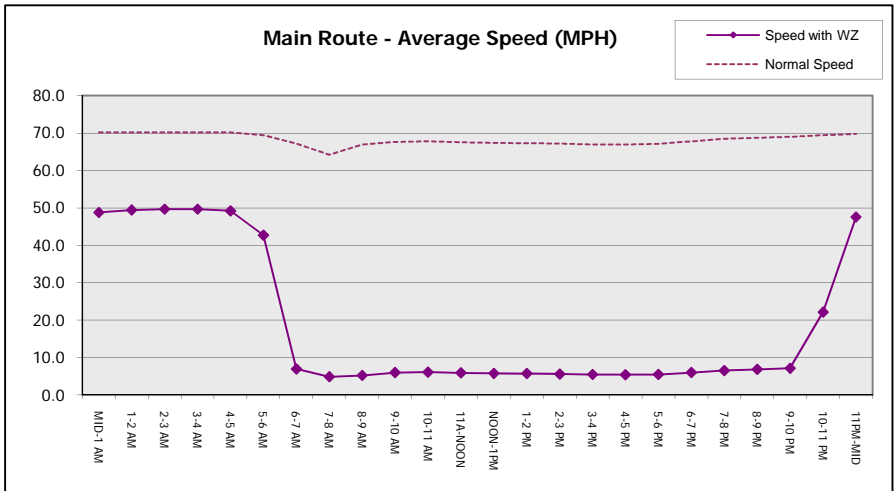
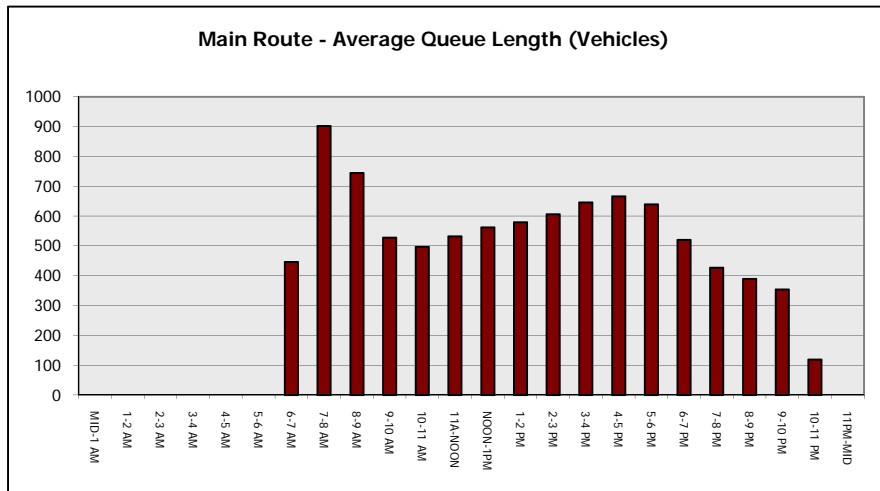
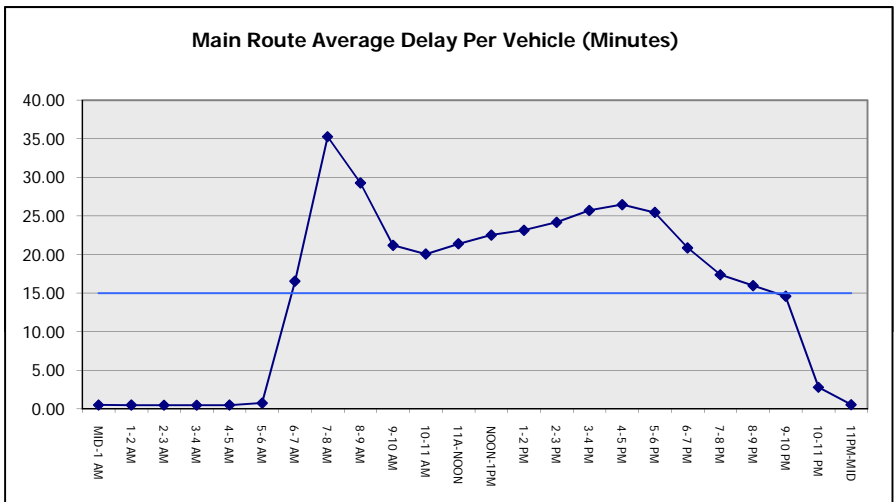
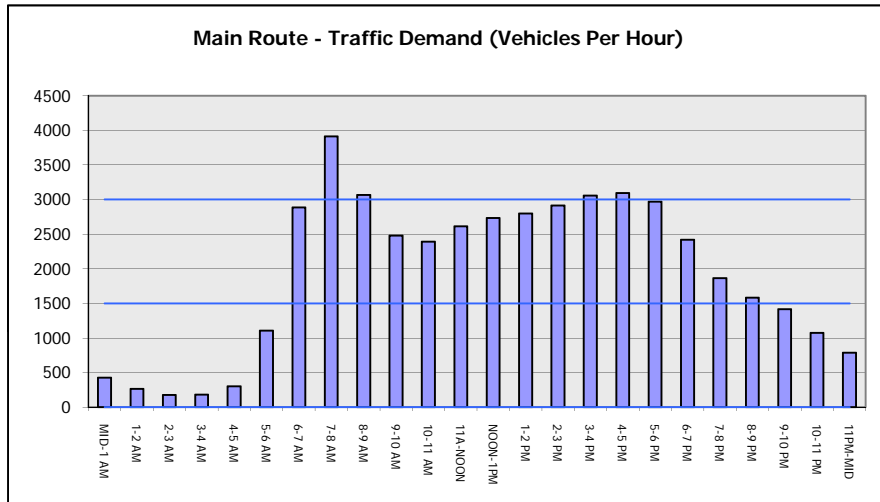
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$300,225
CONGESTED HOURS PER DAY*	15

\*Delays Exceeding 15 Minutes

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



<b>USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)</b> <b>CONTINUOUS (24 HOUR) 2 LANE 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	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	1500	796	0	473	0.56	0	69.7	47.4	42.4	37.3	37.3
6-7 AM	1869	0.0	1110	0.0	1499	1869	0	1110	4.23	125	68.4	16.5	30.8	34.0	34.2
7-8 AM	2692	0.0	1599	0.0	1499	1702	990	2589+	21.37	533	67.4	5.9	30.8	31.5	27.3
8-9 AM	2345	0.0	1393	0.0	1500	1409	936	2328+	20.19	501	67.8	6.1	30.8	32.6	28.6
9-10 AM	2205	0.0	1309	0.0	1499	1489	716	2025+	19.00	469	68.0	6.3	30.8	33.0	30.1
10-11 AM	2400	0.0	1425	0.0	1499	1542	858	2283+	19.99	495	67.8	6.1	30.8	32.4	28.8
11A-NOON	2743	0.0	1629	0.0	1500	1579	1163	2792+	22.31	556	67.3	5.8	30.8	31.4	26.2
NOON-1PM	3116	0.0	1851	0.0	1500	1599	1517	3368+	25.94	652	66.9	5.5	30.8	30.2	23.1
1-2 PM	3177	0.0	1887	0.0	1500	1518	1659	3545+	27.32	688	66.8	5.3	30.8	30.1	22.1
2-3 PM	3509	0.0	2083	0.0	1500	1639	1870	3953+	30.47	772	66.4	5.1	30.8	29.0	20.2
3-4 PM	4069	0.0	2416	0.0	1499	1608	2462	4878+	37.30	954	63.0	4.7	30.8	27.3	17.1
4-5 PM	4084	0.0	2426	0.0	1499	1500	2584	5010+	38.33	981	63.0	4.7	30.8	27.3	16.7
5-6 PM	3617	0.0	2148	0.0	1499	1313	2305	4453+	35.38	901	66.1	4.8	30.8	28.7	17.9
6-7 PM	2486	0.0	1476	0.0	1499	1207	1279	2756+	22.54	567	67.6	5.8	30.8	32.2	26.2
7-8 PM	1780	0.0	1057	0.0	1500	1424	356	1412+	17.02	417	68.5	6.6	30.8	34.3	33.0
8-9 PM	1524	0.0	905	0.0	1499	1467	57	962	15.68	381	68.9	6.9	30.8	35.1	35.3
9-10 PM	1355	0.0	805	0.0	1499	1355	0	805	12.68	306	69.1	7.8	30.8	35.6	36.0
10-11 PM	1092	0.0	649	0.0	1499	1092	0	649	1.88	71	69.4	27.7	37.8	36.4	36.5
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

+ 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	0.0104
MAIN ROUTE WITH WORKS	0.0044
DIVERSION	0.0719

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$332,122
CONGESTED HOURS PER DAY*	14

\*Delays Exceeding 15 Minutes

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

