

<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>OCTOBER</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	513	0.0	305	0.0	3000	513	0	305	0.36	0	70.1	54.0	49.7	38.2	38.2
1-2 AM	265	0.0	157	0.0	3000	265	0	157	0.36	0	70.2	54.0	49.7	38.9	38.9
2-3 AM	199	0.0	118	0.0	3000	199	0	118	0.36	0	70.2	54.0	49.7	39.1	39.1
3-4 AM	165	0.0	98	0.0	3000	165	0	98	0.36	0	70.2	54.0	49.7	39.2	39.2
4-5 AM	190	0.0	113	0.0	3000	190	0	113	0.36	0	70.2	54.0	49.7	39.2	39.2
5-6 AM	318	0.0	189	0.0	3000	318	0	189	0.36	0	70.2	54.0	49.7	38.8	38.8
6-7 AM	942	0.0	559	0.0	3000	942	0	559	0.35	0	69.6	53.8	49.7	36.9	36.9
7-8 AM	2665	0.0	1582	0.0	2999	2665	0	1582+	0.59	6	67.4	45.7	43.5	31.6	31.6
8-9 AM	4037	0.0	2397	0.0	3000	4037	0	2397+	8.92	525	63.3	12.4	37.3	27.4	28.4
9-10 AM	3287	0.0	1952	0.0	2999	2953	334	2286+	20.48	1089	66.6	8.8	37.3	29.7	29.9
10-11 AM	2456	0.0	1459	0.0	2999	2450	6	1465+	14.47	768	67.7	9.9	37.4	32.2	33.5
11A-NOON	2321	0.0	1378	0.0	2999	2321	0	1378+	1.77	158	67.9	30.2	45.8	32.7	32.9
NOON-1PM	2475	0.0	1469	0.0	3000	2475	0	1469+	0.39	0	67.7	51.6	47.4	32.2	32.2
1-2 PM	2683	0.0	1594	0.0	3000	2683	0	1594+	0.52	0	67.4	47.5	42.8	31.5	31.5
2-3 PM	2743	0.0	1628	0.0	3000	2743	0	1628+	0.56	0	67.3	46.5	41.6	31.4	31.4
3-4 PM	2877	0.0	1709	0.0	2999	2877	0	1709+	0.65	0	67.1	44.2	39.2	31.0	31.0
4-5 PM	3160	0.0	1877	0.0	2999	3160	0	1877+	1.81	68	66.8	27.6	37.3	30.1	30.1
5-6 PM	3240	0.0	1924	0.0	3000	3240	0	1924+	5.76	284	66.7	14.6	37.3	29.9	30.2
6-7 PM	3015	0.0	1790	0.0	2999	3015	0	1790+	8.49	427	67.0	12.1	37.3	30.6	31.2
7-8 PM	2575	0.0	1530	0.0	2999	2575	0	1530+	4.19	237	67.5	17.9	40.3	31.9	32.2
8-9 PM	1873	0.0	1112	0.0	3000	1873	0	1112	0.34	0	68.4	53.7	49.7	34.0	34.0
9-10 PM	1510	0.0	897	0.0	3000	1510	0	897	0.34	0	68.9	53.7	49.7	35.1	35.1
10-11 PM	1314	0.0	781	0.0	3000	1314	0	781	0.35	0	69.1	53.8	49.7	35.7	35.7
11PM-MID	1058	0.0	628	0.0	3000	1058	0	628	0.35	0	69.4	53.8	49.7	36.5	36.5

+ 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	0.0102
MAIN ROUTE WITH WORKS	0.0071
DIVERSION	0.0426

PIA: Personal Injury Accidents

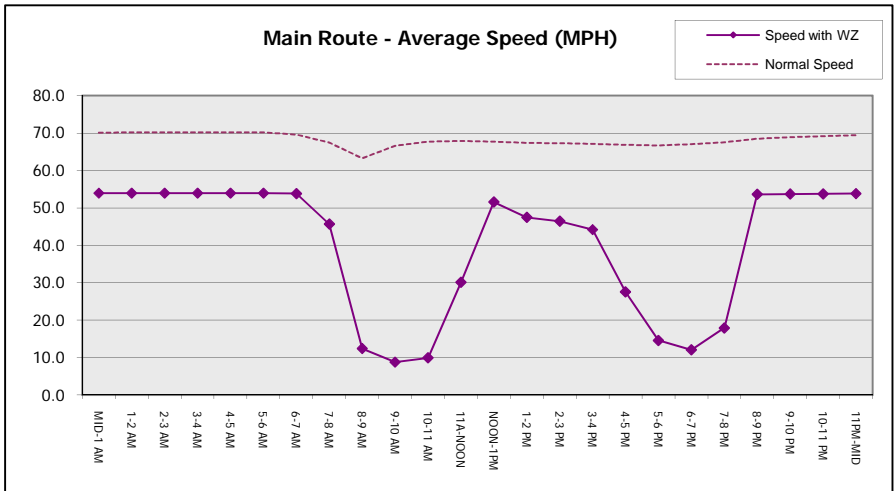
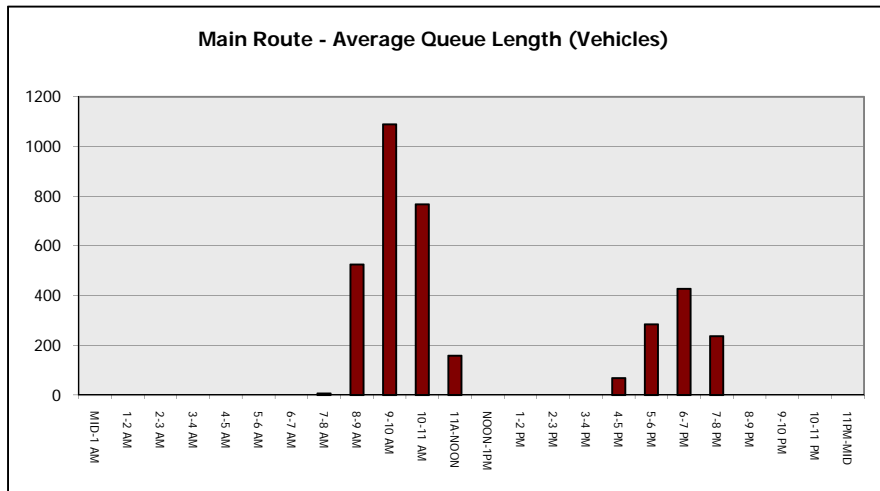
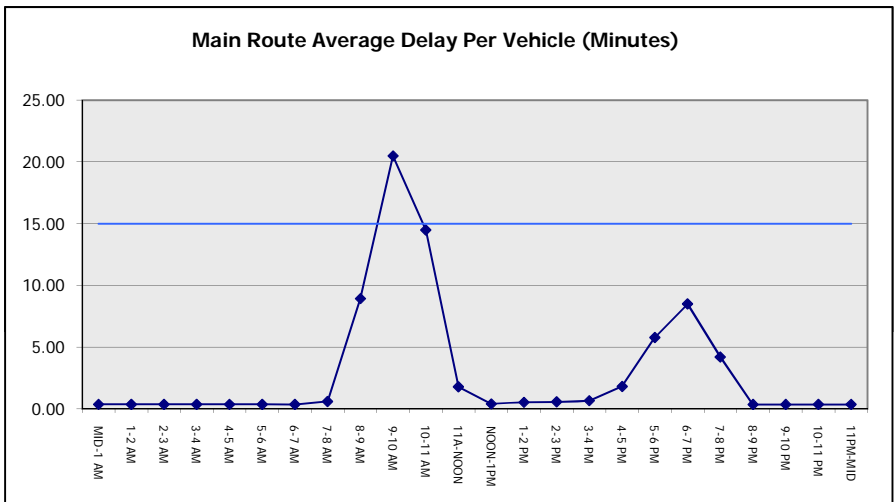
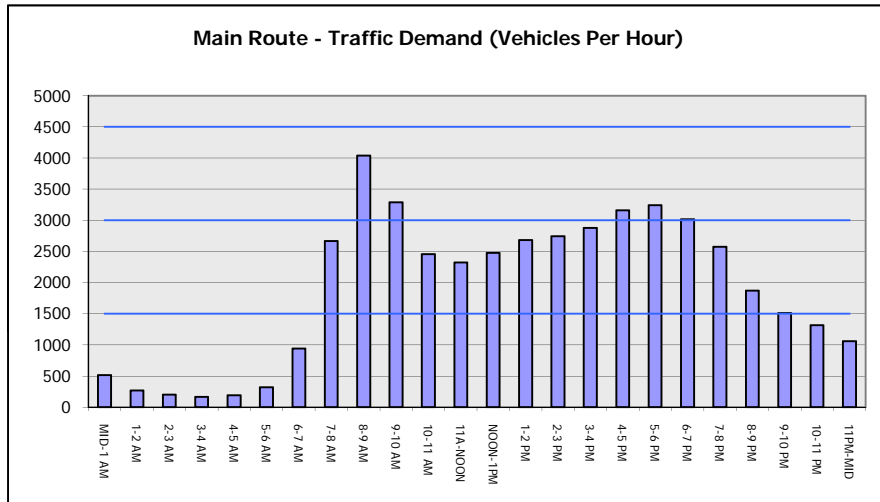
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$53,827
CONGESTED HOURS PER DAY*	1

\*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**

**OCTOBER**  
 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>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	AVERAGE SPEEDS IN MPH				
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING				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	509	0.0	301	0.0	3000	509	0	301	0.36	0	70.1	54.0	49.7	38.2	38.2
1-2 AM	320	0.0	190	0.0	3000	320	0	190	0.36	0	70.2	54.0	49.7	38.8	38.8
2-3 AM	189	0.0	112	0.0	3000	189	0	112	0.36	0	70.2	54.0	49.7	39.2	39.2
3-4 AM	174	0.0	104	0.0	3000	174	0	104	0.36	0	70.2	54.0	49.7	39.2	39.2
4-5 AM	176	0.0	105	0.0	3000	176	0	105	0.36	0	70.2	54.0	49.7	39.2	39.2
5-6 AM	288	0.0	171	0.0	3000	288	0	171	0.36	0	70.2	54.0	49.7	38.9	38.9
6-7 AM	775	0.0	460	0.0	3000	775	0	460	0.35	0	69.7	53.9	49.7	37.4	37.4
7-8 AM	1723	0.0	1023	0.0	3000	1723	0	1023	0.34	0	68.6	53.7	49.7	34.5	34.5
8-9 AM	2775	0.0	1648	0.0	3000	2775	0	1648+	0.58	0	67.3	45.9	41.0	31.3	31.3
9-10 AM	2364	0.0	1403	0.0	3000	2364	0	1403+	0.33	0	67.8	53.5	49.7	32.5	32.5
10-11 AM	2008	0.0	1192	0.0	3000	2008	0	1192	0.33	0	68.2	53.7	49.7	33.6	33.6
11A-NOON	2185	0.0	1298	0.0	3000	2185	0	1298+	0.33	0	68.0	53.6	49.7	33.1	33.1
NOON-1PM	2569	0.0	1526	0.0	3000	2569	0	1526+	0.45	0	67.6	49.7	45.2	31.9	31.9
1-2 PM	2810	0.0	1668	0.0	2999	2810	0	1668+	0.60	0	67.3	45.3	40.4	31.2	31.2
2-3 PM	3003	0.0	1783	0.0	2999	3003	0	1783+	0.86	9	67.0	39.6	37.8	30.6	30.6
3-4 PM	3416	0.0	2029	0.0	3000	3416	0	2029+	4.21	219	66.5	17.5	37.3	29.3	29.6
4-5 PM	3909	0.0	2321	0.0	3000	3816	93	2414+	16.25	885	64.1	9.6	37.3	27.8	29.0
5-6 PM	3900	0.0	2316	0.0	2999	3055	845	3160+	24.70	1329	64.2	8.4	37.3	27.8	25.9
6-7 PM	3503	0.0	2080	0.0	2999	2782	722	2802+	22.90	1224	66.4	8.6	37.3	29.1	27.5
7-8 PM	2623	0.0	1558	0.0	2999	2513	110	1668+	16.72	886	67.5	9.4	37.3	31.7	32.6
8-9 PM	1723	0.0	1023	0.0	2999	1723	0	1023	1.49	170	68.6	33.8	49.1	34.5	34.7
9-10 PM	1457	0.0	864	0.0	3000	1457	0	864	0.34	0	68.9	53.8	49.7	35.3	35.3
10-11 PM	1314	0.0	781	0.0	3000	1314	0	781	0.35	0	69.1	53.8	49.7	35.7	35.7
11PM-MID	1047	0.0	622	0.0	3000	1047	0	622	0.35	0	69.4	53.8	49.7	36.6	36.6

+ 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	0.0100
MAIN ROUTE WITH WORKS	0.0067
DIVERSION	0.0438

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$78,695
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**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

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

