

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

OCTOBER
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	OFF	318	0	189	0.00	0	70.2	70.2	70.2	38.8	38.8
6-7 AM	942	0.0	559	0.0	OFF	942	0	559	0.00	0	69.6	69.6	69.6	36.9	36.9
7-8 AM	2665	0.0	1582	0.0	OFF	2665	0	1582+	0.00	0	67.4	67.4	67.4	31.6	31.6
8-9 AM	4037	0.0	2397	0.0	OFF	4037	0	2397+	0.00	0	63.3	63.3	63.3	27.4	27.4
9-10 AM	3287	0.0	1952	0.0	OFF	3287	0	1952+	0.00	0	66.6	66.6	66.6	29.7	29.7
10-11 AM	2456	0.0	1459	0.0	OFF	2456	0	1459+	0.00	0	67.7	67.7	67.7	32.2	32.2
11A-NOON	2321	0.0	1378	0.0	OFF	2321	0	1378+	0.00	0	67.9	67.9	67.9	32.7	32.7
NOON-1PM	2475	0.0	1469	0.0	OFF	2475	0	1469+	0.00	0	67.7	67.7	67.7	32.2	32.2
1-2 PM	2683	0.0	1594	0.0	OFF	2683	0	1594+	0.00	0	67.4	67.4	67.4	31.5	31.5
2-3 PM	2743	0.0	1628	0.0	OFF	2743	0	1628+	0.00	0	67.3	67.3	67.3	31.4	31.4
3-4 PM	2877	0.0	1709	0.0	OFF	2877	0	1709+	0.00	0	67.1	67.1	67.1	31.0	31.0
4-5 PM	3160	0.0	1877	0.0	OFF	3160	0	1877+	0.00	0	66.8	66.8	66.8	30.1	30.1
5-6 PM	3240	0.0	1924	0.0	OFF	3240	0	1924+	0.00	0	66.7	66.7	66.7	29.9	29.9
6-7 PM	3015	0.0	1790	0.0	OFF	3015	0	1790+	0.00	0	67.0	67.0	67.0	30.6	30.6
7-8 PM	2575	0.0	1530	0.0	3000	2575	0	1530+	0.45	0	67.5	49.6	45.1	31.9	31.9
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

"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	0.0102
MAIN ROUTE WITH WORKS	0.0096
DIVERSION	0.0421

PIA: Personal Injury Accidents

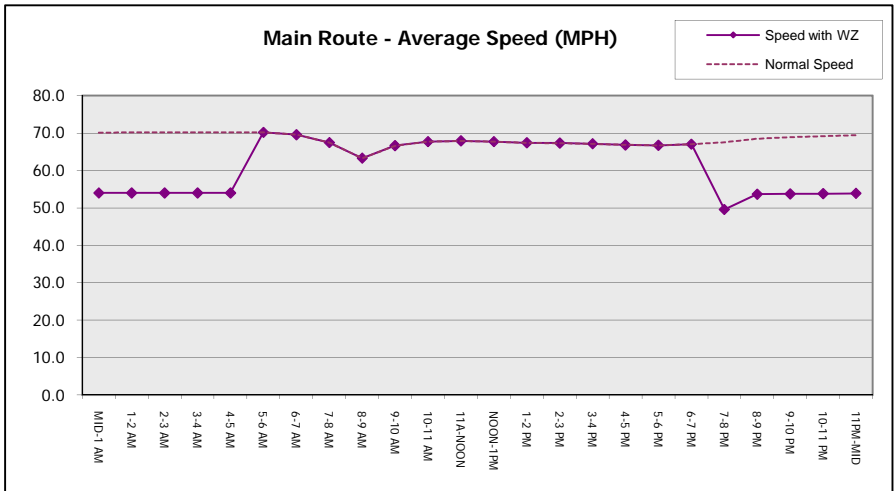
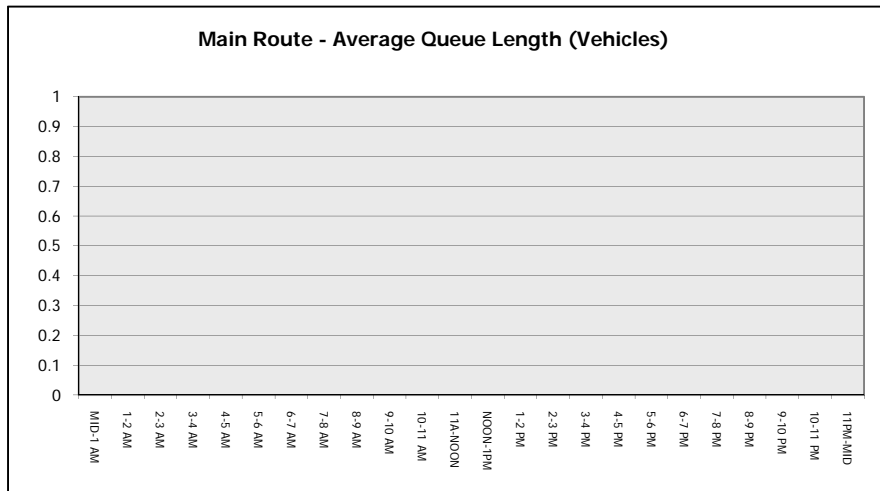
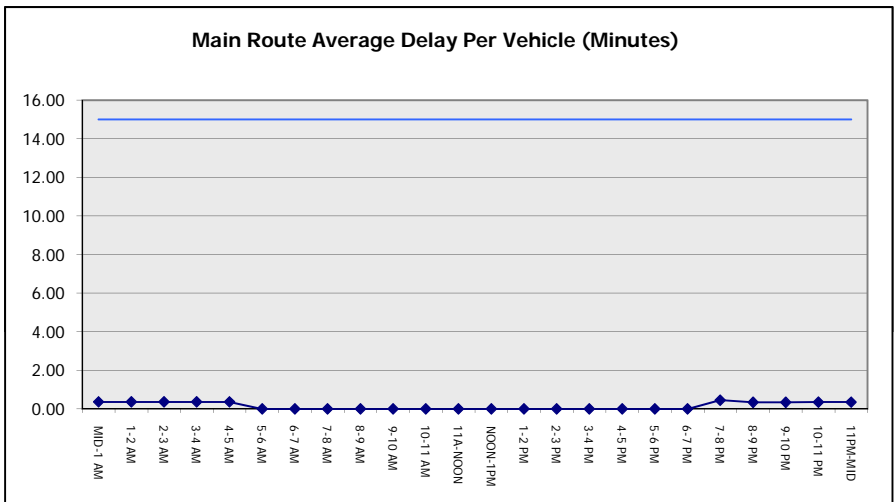
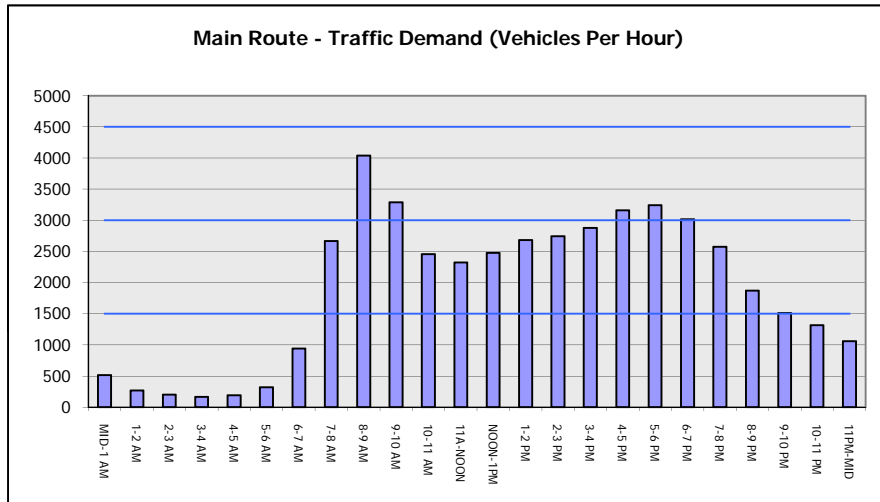
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$759
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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

OCTOBER
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 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 CLOSURE DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51	OCTOBER
	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	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	OFF	288	0	171	0.00	0	70.2	70.2	70.2	38.9	38.9
6-7 AM	775	0.0	460	0.0	OFF	775	0	460	0.00	0	69.7	69.7	69.7	37.4	37.4
7-8 AM	1723	0.0	1023	0.0	OFF	1723	0	1023	0.00	0	68.6	68.6	68.6	34.5	34.5
8-9 AM	2775	0.0	1648	0.0	OFF	2775	0	1648+	0.00	0	67.3	67.3	67.3	31.3	31.3
9-10 AM	2364	0.0	1403	0.0	OFF	2364	0	1403+	0.00	0	67.8	67.8	67.8	32.5	32.5
10-11 AM	2008	0.0	1192	0.0	OFF	2008	0	1192	0.00	0	68.2	68.2	68.2	33.6	33.6
11A-NOON	2185	0.0	1298	0.0	OFF	2185	0	1298+	0.00	0	68.0	68.0	68.0	33.1	33.1
NOON-1PM	2569	0.0	1526	0.0	OFF	2569	0	1526+	0.00	0	67.6	67.6	67.6	31.9	31.9
1-2 PM	2810	0.0	1668	0.0	OFF	2810	0	1668+	0.00	0	67.3	67.3	67.3	31.2	31.2
2-3 PM	3003	0.0	1783	0.0	OFF	3003	0	1783+	0.00	0	67.0	67.0	67.0	30.6	30.6
3-4 PM	3416	0.0	2029	0.0	OFF	3416	0	2029+	0.00	0	66.5	66.5	66.5	29.3	29.3
4-5 PM	3909	0.0	2321	0.0	OFF	3909	0	2321+	0.00	0	64.1	64.1	64.1	27.8	27.8
5-6 PM	3900	0.0	2316	0.0	OFF	3900	0	2316+	0.00	0	64.2	64.2	64.2	27.8	27.8
6-7 PM	3503	0.0	2080	0.0	OFF	3503	0	2080+	0.00	0	66.4	66.4	66.4	29.1	29.1
7-8 PM	2623	0.0	1558	0.0	3000	2623	0	1558+	0.48	0	67.5	48.6	44.0	31.7	31.7
8-9 PM	1723	0.0	1023	0.0	3000	1723	0	1023	0.34	0	68.6	53.7	49.7	34.5	34.5
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

"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	0.0100
MAIN ROUTE WITH WORKS	0.0093
DIVERSION	0.0410

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$768
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
 NIGHTTIME 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

