

**IH 39/90/94: STH 60 TO USH 51 (DANE AND COLUMBIA COUNTIES)
NIGHTTIME 2 LANE CLOSURE
DIVERSION ROUTE: USH 51 - STH 60**

OCTOBER

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	218	0.0	58	0.0	1500	218	0	58	0.50	0	70.2	67.1	44.6	39.0	39.0
1-2 AM	166	0.0	44	0.0	1500	166	0	44	0.49	0	70.2	67.1	44.8	39.2	39.2
2-3 AM	118	0.0	31	0.0	1500	118	0	31	0.49	0	70.2	67.2	45.0	39.4	39.4
3-4 AM	114	0.0	30	0.0	1500	114	0	30	0.49	0	70.2	67.2	45.0	39.4	39.4
4-5 AM	116	0.0	30	0.0	1500	116	0	30	0.49	0	70.2	67.2	45.0	39.4	39.4
5-6 AM	182	0.0	48	0.0	1500	182	0	48	0.49	0	70.2	67.1	44.8	39.1	39.1
6-7 AM	271	0.0	71	0.0	1500	271	0	71	0.51	0	70.2	67.1	44.4	38.9	38.9
7-8 AM	492	0.0	129	0.0	1500	492	0	129	0.53	0	70.1	66.9	43.5	38.1	38.1
8-9 AM	808	0.0	212	0.0	1500	808	0	212	0.57	0	69.7	66.3	42.4	37.1	37.1
9-10 AM	1219	0.0	320	0.0	OFF	1219	0	320	0.00	0	69.2	69.2	69.2	35.8	35.8
10-11 AM	1612	0.0	424	0.0	OFF	1612	0	424	0.00	0	68.7	68.7	68.7	34.5	34.5
11A-NOON	1876	0.0	493	0.0	OFF	1876	0	493	0.00	0	68.4	68.4	68.4	33.6	33.6
NOON-1PM	1959	0.0	514	0.0	OFF	1959	0	514	0.00	0	68.3	68.3	68.3	33.3	33.3
1-2 PM	2043	0.0	537	0.0	OFF	2043	0	537	0.00	0	68.2	68.2	68.2	33.1	33.1
2-3 PM	2037	0.0	535	0.0	OFF	2037	0	535	0.00	0	68.2	68.2	68.2	33.1	33.1
3-4 PM	1983	0.0	520	0.0	OFF	1983	0	520	0.00	0	68.2	68.2	68.2	33.3	33.3
4-5 PM	1911	0.0	501	0.0	OFF	1911	0	501	0.00	0	68.4	68.4	68.4	33.5	33.5
5-6 PM	1682	0.0	442	0.0	OFF	1682	0	442	0.00	0	68.6	68.6	68.6	34.3	34.3
6-7 PM	1374	0.0	361	0.0	OFF	1374	0	361	0.00	0	69.1	69.1	69.1	35.3	35.3
7-8 PM	1095	0.0	288	0.0	1500	1095	0	288	0.60	0	69.4	65.8	41.4	36.1	36.1
8-9 PM	804	0.0	211	0.0	1500	804	0	211	0.57	0	69.7	66.3	42.4	37.1	37.1
9-10 PM	581	0.0	153	0.0	1500	581	0	153	0.54	0	70.0	66.7	43.2	37.8	37.8
10-11 PM	422	0.0	111	0.0	1500	422	0	111	0.52	0	70.2	66.9	43.8	38.4	38.4
11PM-MID	296	0.0	77	0.0	1500	296	0	77	0.51	0	70.2	67.1	44.3	38.8	38.8

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- 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	0.0476
MAIN ROUTE WITH WORKS	0.0472
DIVERSION	0.1327

PIA: Personal Injury Accidents

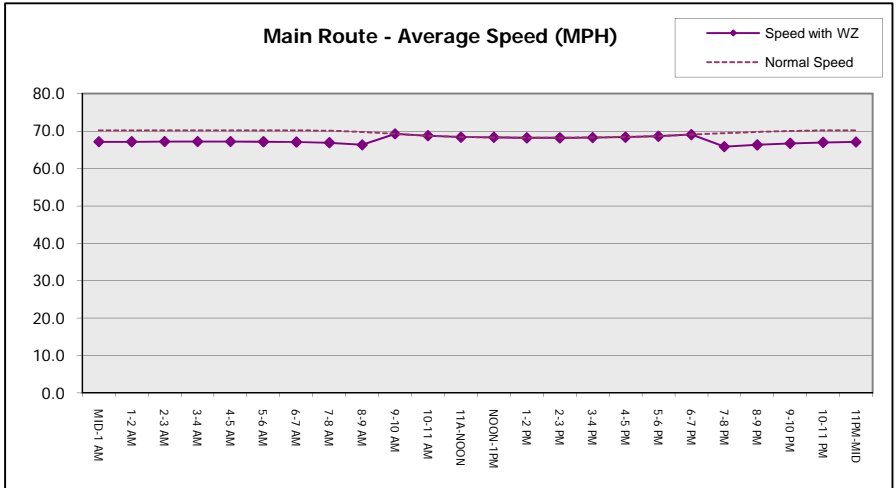
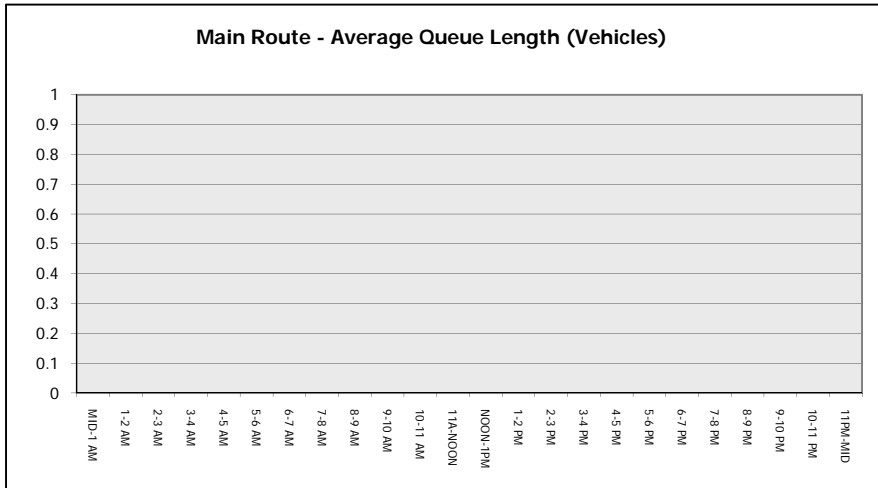
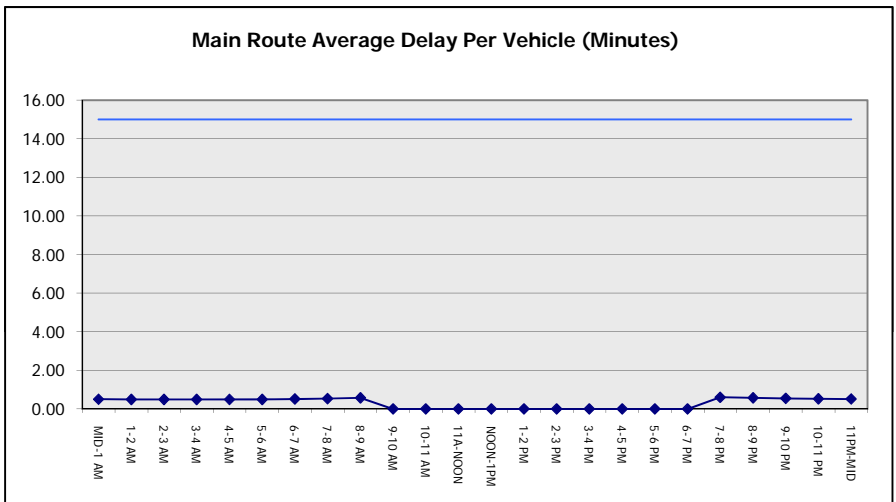
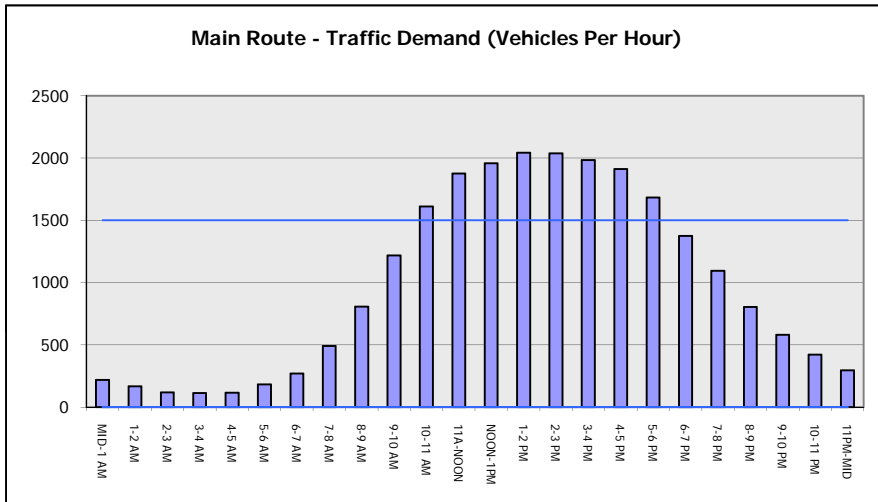
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$836
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

IH 39/90/94: STH 60 TO USH 51 (DANE AND COLUMBIA COUNTIES)
NIGHTTIME 2 LANE CLOSURE
DIVERSION ROUTE: USH 51 - STH 60

OCTOBER
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY WESTBOUND DIRECTION



IH 39/90/94: STH 60 TO USH 51 (DANE AND COLUMBIA COUNTIES) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: USH 51 - STH 60	OCTOBER Analyzed for 2009 Construction Season
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SUMMARY OF TRAFFIC MODEL OUTPUT	
SUNDAY	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	291	0.0	76	0.0	1500	291	0	76	0.51	0	70.2	67.1	44.3	38.8	38.8
1-2 AM	205	0.0	53	0.0	1500	205	0	53	0.50	0	70.2	67.1	44.6	39.1	39.1
2-3 AM	187	0.0	49	0.0	1500	187	0	49	0.50	0	70.2	67.1	44.7	39.1	39.1
3-4 AM	136	0.0	36	0.0	1500	136	0	36	0.49	0	70.2	67.2	45.0	39.3	39.3
4-5 AM	157	0.0	41	0.0	1500	157	0	41	0.49	0	70.2	67.1	44.8	39.2	39.2
5-6 AM	191	0.0	50	0.0	1500	191	0	50	0.50	0	70.2	67.1	44.7	39.1	39.1
6-7 AM	263	0.0	69	0.0	1500	263	0	69	0.50	0	70.2	67.1	44.4	38.9	38.9
7-8 AM	433	0.0	114	0.0	1500	433	0	114	0.53	0	70.2	66.9	43.8	38.3	38.3
8-9 AM	764	0.0	201	0.0	1500	764	0	201	0.56	0	69.8	66.4	42.5	37.3	37.3
9-10 AM	1409	0.0	370	0.0	OFF	1409	0	370	0.00	0	69.0	69.0	69.0	35.1	35.1
10-11 AM	2208	0.0	580	0.0	OFF	2208	0	580	0.00	0	68.0	68.0	68.0	32.5	32.5
11A-NOON	2878	0.0	755	0.0	OFF	2878	0	755	0.00	0	67.1	67.1	67.1	30.4	30.4
NOON-1PM	3183	0.0	835	0.0	OFF	3183	0	835	0.00	0	66.8	66.8	66.8	29.4	29.4
1-2 PM	3459	0.0	908	0.0	OFF	3459	0	908	0.00	0	66.4	66.4	66.4	28.4	28.4
2-3 PM	3580	0.0	940	0.0	OFF	3580	0	940	0.00	0	66.3	66.3	66.3	28.1	28.1
3-4 PM	3670	0.0	964	0.0	OFF	3670	0	964	0.00	0	65.8	65.8	65.8	27.8	27.8
4-5 PM	3671	0.0	964	0.0	OFF	3671	0	964	0.00	0	65.8	65.8	65.8	27.8	27.8
5-6 PM	3203	0.0	841	0.0	OFF	3203	0	841	0.00	0	66.8	66.8	66.8	29.3	29.3
6-7 PM	2542	0.0	666	0.0	OFF	2542	0	666	0.00	0	67.6	67.6	67.6	31.5	31.5
7-8 PM	1980	0.0	519	0.0	1499	1980	0	519	10.53	273	68.2	35.3	30.8	33.3	33.3
8-9 PM	1469	0.0	385	0.0	1499	1466	4	389	19.98	494	68.9	24.7	30.8	35.0	34.9
9-10 PM	952	0.0	250	0.0	1499	952	0	250	6.93	206	69.6	42.7	36.9	36.6	36.6
10-11 PM	596	0.0	156	0.0	1500	596	0	156	0.54	0	70.0	66.7	43.2	37.8	37.8
11PM-MID	377	0.0	99	0.0	1500	377	0	99	0.52	0	70.2	67.0	44.0	38.5	38.5

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- 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	0.0770
MAIN ROUTE WITH WORKS	0.0765
DIVERSION	0.2145

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$15,782
CONGESTED HOURS PER DAY*	1

*Delays Exceeding 15 Minutes

IH 39/90/94: STH 60 TO USH 51 (DANE AND COLUMBIA COUNTIES)
NIGHTTIME 2 LANE CLOSURE
DIVERSION ROUTE: USH 51 - STH 60

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY EASTBOUND DIRECTION

