

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	298	0.0	177	0.0	1500	298	0	177	0.51	0	70.2	49.2	44.3	38.8	38.8
1-2 AM	209	0.0	125	0.0	1500	209	0	125	0.50	0	70.2	49.6	44.6	39.1	39.1
2-3 AM	176	0.0	105	0.0	1500	176	0	105	0.49	0	70.2	49.7	44.8	39.2	39.2
3-4 AM	184	0.0	110	0.0	1500	184	0	110	0.49	0	70.2	49.6	44.8	39.2	39.2
4-5 AM	339	0.0	202	0.0	1500	339	0	202	0.51	0	70.2	49.1	44.2	38.7	38.7
5-6 AM	1197	0.0	710	0.0	OFF	1197	0	710	0.00	0	69.2	69.2	69.2	36.1	36.1
6-7 AM	3136	0.0	1863	0.0	OFF	3136	0	1863+	0.00	0	66.8	66.8	66.8	30.2	30.2
7-8 AM	4204	0.0	2497	0.0	OFF	4204	0	2497+	0.00	0	62.2	62.2	62.2	26.9	26.9
8-9 AM	3250	0.0	1930	0.0	OFF	3250	0	1930+	0.00	0	66.7	66.7	66.7	29.8	29.8
9-10 AM	2522	0.0	1497	0.0	OFF	2522	0	1497+	0.00	0	67.6	67.6	67.6	32.0	32.0
10-11 AM	2276	0.0	1352	0.0	OFF	2276	0	1352+	0.00	0	67.9	67.9	67.9	32.8	32.8
11A-NOON	2308	0.0	1371	0.0	OFF	2308	0	1371+	0.00	0	67.9	67.9	67.9	32.7	32.7
NOON-1PM	2408	0.0	1429	0.0	OFF	2408	0	1429+	0.00	0	67.8	67.8	67.8	32.4	32.4
1-2 PM	2433	0.0	1445	0.0	OFF	2433	0	1445+	0.00	0	67.7	67.7	67.7	32.3	32.3
2-3 PM	2514	0.0	1493	0.0	OFF	2514	0	1493+	0.00	0	67.6	67.6	67.6	32.0	32.0
3-4 PM	2764	0.0	1642	0.0	OFF	2764	0	1642+	0.00	0	67.3	67.3	67.3	31.3	31.3
4-5 PM	3025	0.0	1797	0.0	OFF	3025	0	1797+	0.00	0	66.9	66.9	66.9	30.5	30.5
5-6 PM	2811	0.0	1669	0.0	OFF	2811	0	1669+	0.00	0	67.3	67.3	67.3	31.2	31.2
6-7 PM	1990	0.0	1181	0.0	OFF	1990	0	1181	0.00	0	68.2	68.2	68.2	33.7	33.7
7-8 PM	1488	0.0	884	0.0	1499	1488	0	884	1.63	15	68.9	29.5	31.5	35.2	35.2
8-9 PM	1312	0.0	780	0.0	1500	1312	0	780	0.85	0	69.1	40.6	35.1	35.7	35.7
9-10 PM	1124	0.0	668	0.0	1500	1124	0	668	0.61	0	69.4	46.1	41.0	36.3	36.3
10-11 PM	850	0.0	504	0.0	1500	850	0	504	0.57	0	69.7	47.3	42.2	37.1	37.1
11PM-MID	556	0.0	330	0.0	1500	556	0	330	0.54	0	70.0	48.3	43.3	38.1	38.1

"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	0.0097
MAIN ROUTE WITH WORKS	0.0092
DIVERSION	0.0398

PIA: Personal Injury Accidents

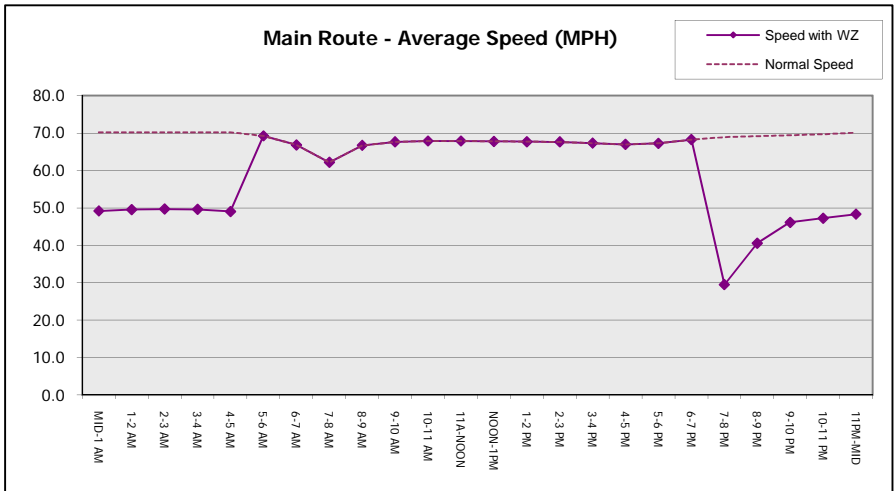
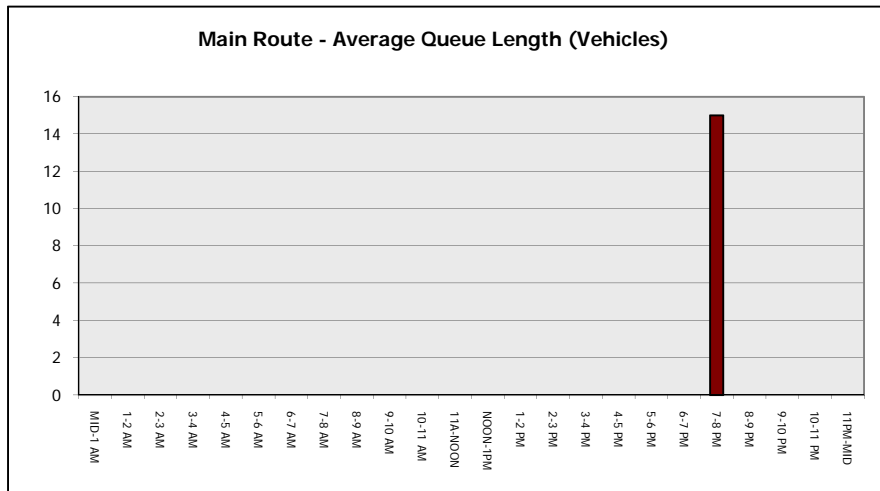
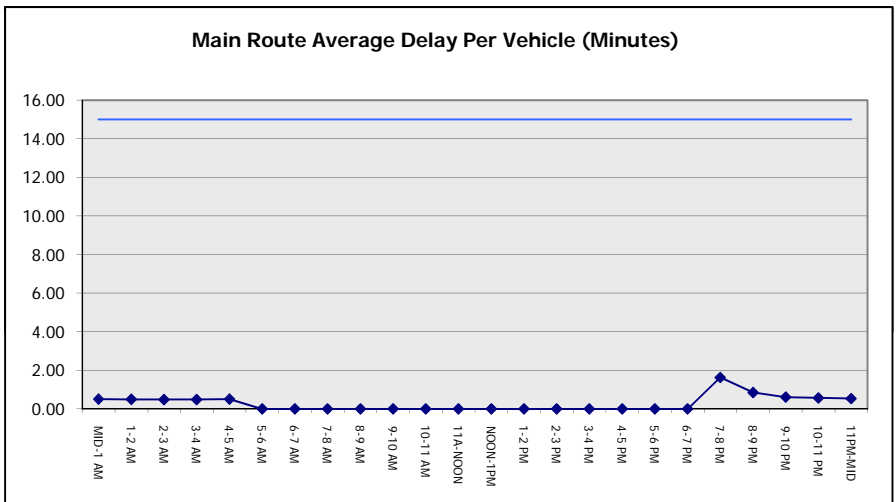
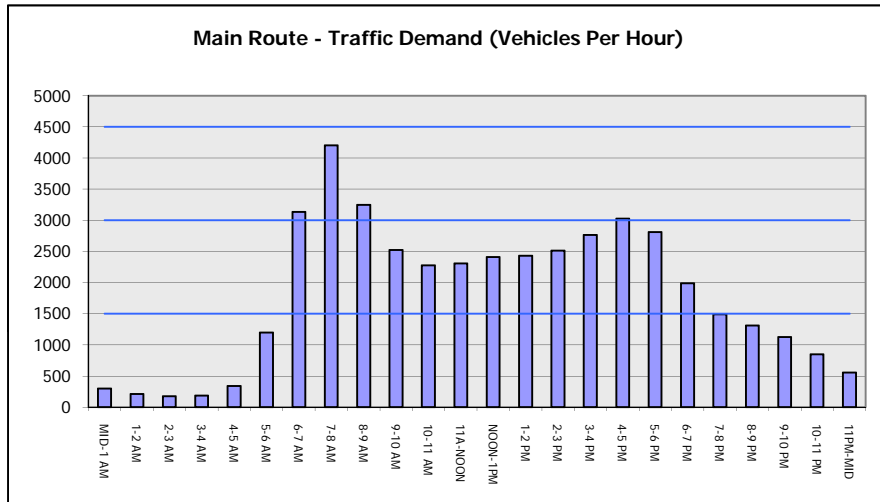
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,369
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
NIGHTTIME 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
MON-THUR WESTBOUND DIRECTION



USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51	AUGUST Analyzed for 2009 Construction Season
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SUMMARY OF TRAFFIC MODEL OUTPUT	
MON-THUR	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	279	0.0	165	0.0	1500	279	0	165	0.51	0	70.2	49.3	44.3	38.9	38.9
1-2 AM	180	0.0	107	0.0	1500	180	0	107	0.49	0	70.2	49.6	44.8	39.2	39.2
2-3 AM	157	0.0	93	0.0	1500	157	0	93	0.49	0	70.2	49.7	44.8	39.2	39.2
3-4 AM	154	0.0	91	0.0	1500	154	0	91	0.49	0	70.2	49.7	44.9	39.2	39.2
4-5 AM	322	0.0	191	0.0	1500	322	0	191	0.51	0	70.2	49.1	44.2	38.8	38.8
5-6 AM	878	0.0	521	0.0	OFF	878	0	521	0.00	0	69.6	69.6	69.6	37.1	37.1
6-7 AM	1990	0.0	1182	0.0	OFF	1990	0	1182	0.00	0	68.2	68.2	68.2	33.7	33.7
7-8 AM	2915	0.0	1731	0.0	OFF	2915	0	1731+	0.00	0	67.1	67.1	67.1	30.9	30.9
8-9 AM	2453	0.0	1457	0.0	OFF	2453	0	1457+	0.00	0	67.7	67.7	67.7	32.2	32.2
9-10 AM	2048	0.0	1216	0.0	OFF	2048	0	1216+	0.00	0	68.2	68.2	68.2	33.5	33.5
10-11 AM	2157	0.0	1281	0.0	OFF	2157	0	1281+	0.00	0	68.1	68.1	68.1	33.2	33.2
11A-NOON	2430	0.0	1443	0.0	OFF	2430	0	1443+	0.00	0	67.7	67.7	67.7	32.4	32.4
NOON-1PM	2513	0.0	1493	0.0	OFF	2513	0	1493+	0.00	0	67.6	67.6	67.6	32.0	32.0
1-2 PM	2573	0.0	1528	0.0	OFF	2573	0	1528+	0.00	0	67.6	67.6	67.6	31.9	31.9
2-3 PM	2991	0.0	1776	0.0	OFF	2991	0	1776+	0.00	0	67.0	67.0	67.0	30.6	30.6
3-4 PM	3685	0.0	2188	0.0	OFF	3685	0	2188+	0.00	0	65.7	65.7	65.7	28.5	28.5
4-5 PM	4062	0.0	2412	0.0	OFF	4062	0	2412+	0.00	0	63.1	63.1	63.1	27.3	27.3
5-6 PM	3727	0.0	2213	0.0	OFF	3727	0	2213+	0.00	0	65.4	65.4	65.4	28.4	28.4
6-7 PM	2400	0.0	1425	0.0	OFF	2400	0	1425+	0.00	0	67.8	67.8	67.8	32.4	32.4
7-8 PM	1719	0.0	1021	0.0	1499	1719	0	1021	5.85	137	68.6	12.5	30.8	34.5	34.6
8-9 PM	1513	0.0	899	0.0	1499	1513	0	899	10.33	241	68.9	8.7	30.8	35.1	35.4
9-10 PM	1204	0.0	715	0.0	1499	1204	0	715	3.29	111	69.2	19.6	34.9	36.1	36.1
10-11 PM	832	0.0	494	0.0	1500	832	0	494	0.57	0	69.7	47.3	42.3	37.2	37.2
11PM-MID	507	0.0	301	0.0	1500	507	0	301	0.53	0	70.1	48.4	43.5	38.2	38.2

"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	0.0097
MAIN ROUTE WITH WORKS	0.0093
DIVERSION	0.0400

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$7,541
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
NIGHTTIME 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
MON-THUR EASTBOUND DIRECTION

