

USH 151: IH 39 TO STH 19 (DANE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE SEGMENT)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR SOUTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH			
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	155	0.0	1500	155	0	0.49	0	70.2	62.5	44.8
1-2 AM	134	0.0	1500	134	0	0.49	0	70.2	62.5	45.0
2-3 AM	91	0.0	1500	91	0	0.48	0	70.2	62.7	45.1
3-4 AM	120	0.0	1500	120	0	0.49	0	70.2	62.6	45.0
4-5 AM	271	0.0	1500	271	0	0.51	0	70.2	62.3	44.4
5-6 AM	844	0.0	OFF	844	0	0.00	0	69.7	69.7	69.7
6-7 AM	2275	0.0	OFF	2275	0	0.00	0	67.9	67.9	67.9
7-8 AM	3141	0.0	OFF	3141	0	0.00	0	66.8	66.8	66.8
8-9 AM	2010	0.0	OFF	2010	0	0.00	0	68.2	68.2	68.2
9-10 AM	1585	0.0	OFF	1585	0	0.00	0	68.7	68.7	68.7
10-11 AM	1546	0.0	OFF	1546	0	0.00	0	68.8	68.8	68.8
11AM-NOON	1607	0.0	OFF	1607	0	0.00	0	68.7	68.7	68.7
NOON-1PM	1690	0.0	OFF	1690	0	0.00	0	68.6	68.6	68.6
1-2 PM	1585	0.0	OFF	1585	0	0.00	0	68.7	68.7	68.7
2-3 PM	1559	0.0	OFF	1559	0	0.00	0	68.8	68.8	68.8
3-4 PM	1702	0.0	OFF	1702	0	0.00	0	68.6	68.6	68.6
4-5 PM	1837	0.0	OFF	1837	0	0.00	0	68.4	68.4	68.4
5-6 PM	1733	0.0	OFF	1733	0	0.00	0	68.6	68.6	68.6
6-7 PM	1395	0.0	OFF	1395	0	0.00	0	69.0	69.0	69.0
7-8 PM	1025	0.0	1500	1025	0	0.59	0	69.5	60.7	41.6
8-9 PM	755	0.0	1500	755	0	0.56	0	69.8	61.3	42.5
9-10 PM	599	0.0	1500	599	0	0.54	0	70.0	61.7	43.2
10-11 PM	432	0.0	1500	432	0	0.53	0	70.2	62.0	43.8
11PM-MID	244	0.0	1500	244	0	0.50	0	70.2	62.3	44.5

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

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

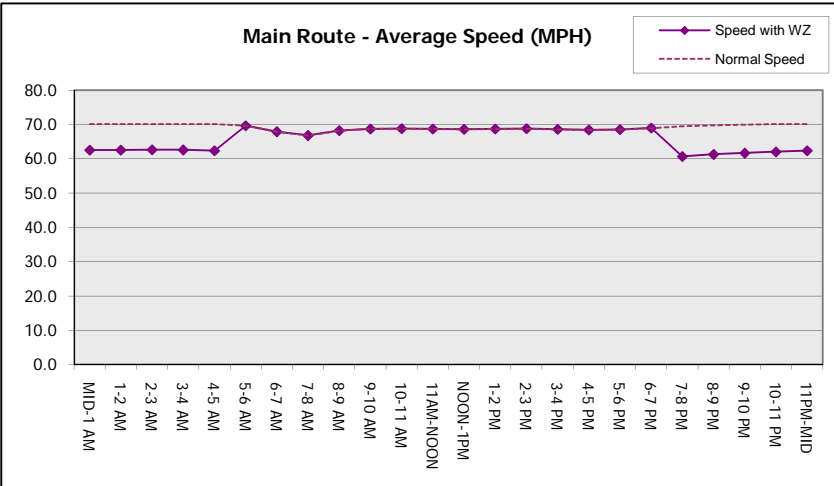
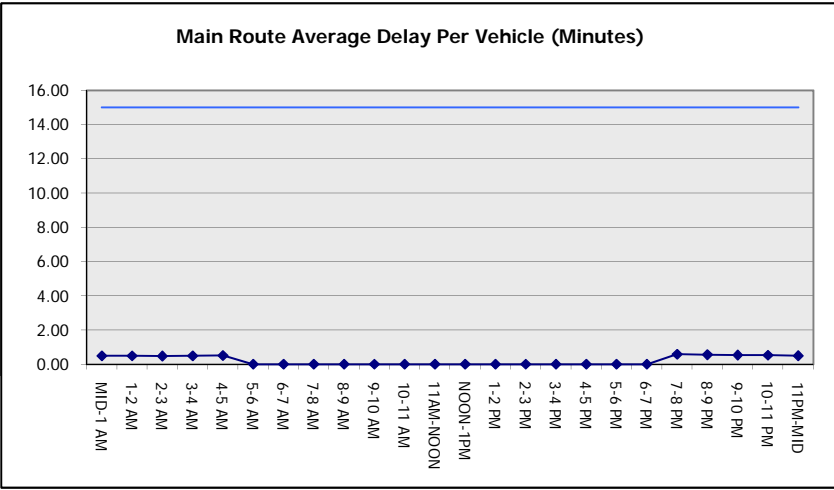
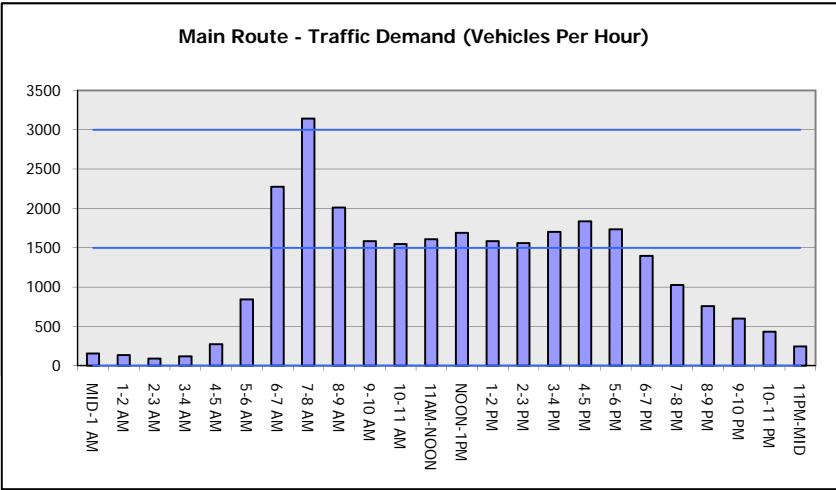
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0212
MAIN ROUTE WITH WORKS	0.0209
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$437
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH			
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	231	0.0	1500	231	0	0.50	0	70.2	62.4	44.6
1-2 AM	151	0.0	1500	151	0	0.49	0	70.2	62.5	44.9
2-3 AM	117	0.0	1500	117	0	0.49	0	70.2	62.6	45.0
3-4 AM	106	0.0	1500	106	0	0.49	0	70.2	62.6	45.1
4-5 AM	136	0.0	1500	136	0	0.49	0	70.2	62.5	45.0
5-6 AM	335	0.0	OFF	335	0	0.00	0	70.2	70.2	70.2
6-7 AM	801	0.0	OFF	801	0	0.00	0	69.7	69.7	69.7
7-8 AM	1157	0.0	OFF	1157	0	0.00	0	69.3	69.3	69.3
8-9 AM	1038	0.0	OFF	1038	0	0.00	0	69.4	69.4	69.4
9-10 AM	1052	0.0	OFF	1052	0	0.00	0	69.4	69.4	69.4
10-11 AM	1197	0.0	OFF	1197	0	0.00	0	69.2	69.2	69.2
11AM-NOON	1439	0.0	OFF	1439	0	0.00	0	68.9	68.9	68.9
NOON-1PM	1663	0.0	OFF	1663	0	0.00	0	68.7	68.7	68.7
1-2 PM	1666	0.0	OFF	1666	0	0.00	0	68.7	68.7	68.7
2-3 PM	1915	0.0	OFF	1915	0	0.00	0	68.4	68.4	68.4
3-4 PM	2548	0.0	OFF	2548	0	0.00	0	67.6	67.6	67.6
4-5 PM	3179	0.0	OFF	3179	0	0.00	0	66.8	66.8	66.8
5-6 PM	3175	0.0	OFF	3175	0	0.00	0	66.8	66.8	66.8
6-7 PM	1953	0.0	OFF	1953	0	0.00	0	68.3	68.3	68.3
7-8 PM	1481	0.0	1499	1481	0	1.46	11	68.9	50.8	31.6
8-9 PM	1356	0.0	1500	1356	0	0.91	0	69.1	56.4	34.0
9-10 PM	1135	0.0	1500	1135	0	0.62	0	69.3	60.1	40.6
10-11 PM	658	0.0	1500	658	0	0.55	0	69.9	61.5	42.9
11PM-MID	448	0.0	1500	448	0	0.53	0	70.2	62.0	43.7

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

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0216
MAIN ROUTE WITH WORKS	0.0212
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,062
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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