

USH 151: CTH PD TO CTH PB (DANE COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY WESTBOUND 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	133	0.0	1500	133	0	0.44	0	66.1	54.3	45.0
1-2 AM	110	0.0	1500	110	0	0.43	0	66.2	54.3	45.0
2-3 AM	83	0.0	1500	83	0	0.43	0	66.2	54.5	45.1
3-4 AM	101	0.0	1500	101	0	0.43	0	66.2	54.4	45.1
4-5 AM	200	0.0	1500	200	0	0.44	0	66.0	54.1	44.7
5-6 AM	261	0.0	1500	261	0	0.45	0	65.9	53.8	44.5
6-7 AM	513	0.0	1500	513	0	0.47	0	65.5	53.0	43.5
7-8 AM	759	0.0	1500	759	0	0.50	0	65.0	52.2	42.5
8-9 AM	984	0.0	1500	984	0	0.52	0	64.5	51.5	41.7
9-10 AM	1159	0.0	1500	1159	0	0.58	0	64.2	50.0	39.8
10-11 AM	1204	0.0	1500	1204	0	0.64	0	64.1	48.9	38.3
11AM-NOON	1160	0.0	1500	1160	0	0.58	0	64.2	50.0	39.7
NOON-1PM	1101	0.0	1500	1101	0	0.53	0	64.3	51.2	41.3
1-2 PM	1174	0.0	1500	1174	0	0.60	0	64.2	49.6	39.3
2-3 PM	1251	0.0	1500	1251	0	0.70	0	64.0	47.8	36.9
3-4 PM	1098	0.0	1500	1098	0	0.53	0	64.3	51.2	41.4
4-5 PM	944	0.0	1500	944	0	0.51	0	64.6	51.6	41.9
5-6 PM	796	0.0	1500	796	0	0.50	0	64.9	52.1	42.4
6-7 PM	654	0.0	1500	654	0	0.49	0	65.1	52.5	42.9
7-8 PM	585	0.0	1500	585	0	0.48	0	65.3	52.8	43.2
8-9 PM	515	0.0	1500	515	0	0.47	0	65.5	53.0	43.5
9-10 PM	434	0.0	1500	434	0	0.46	0	65.6	53.3	43.8
10-11 PM	301	0.0	1500	301	0	0.45	0	65.8	53.7	44.3
11PM-MID	204	0.0	1500	204	0	0.44	0	66.0	54.0	44.6

----- 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	0.0055
MAIN ROUTE WITH WORKS	0.0045
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS

ROAD USER COSTS PER DAY	\$2,161
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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CONTINUOUS (24 HOUR) CLOSURE
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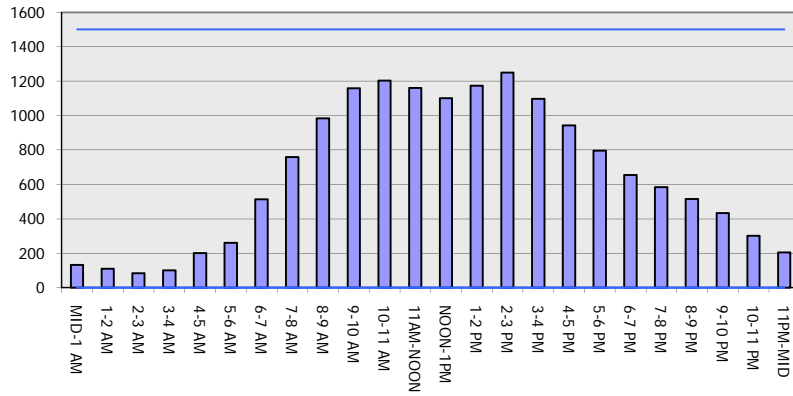
OCTOBER

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Construction Season

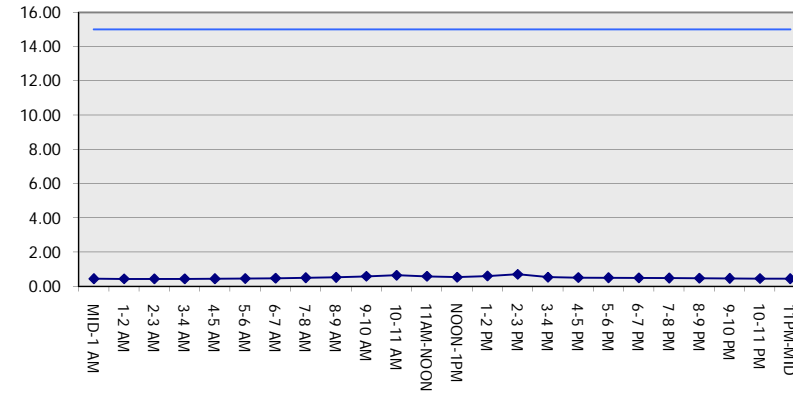
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY WESTBOUND DIRECTION

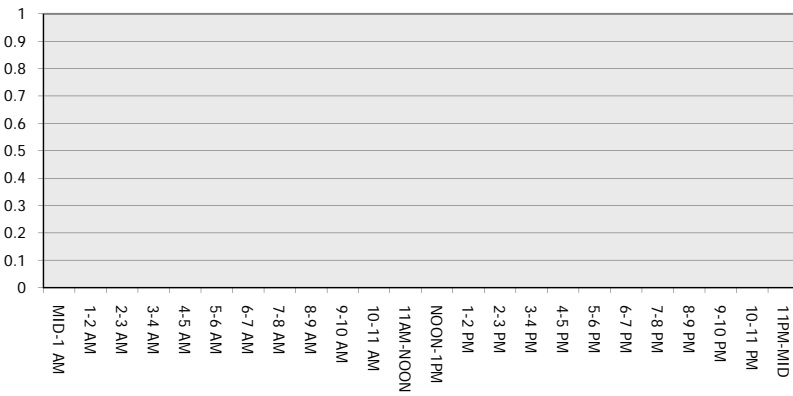
Main Route - Traffic Demand (Vehicles Per Hour)



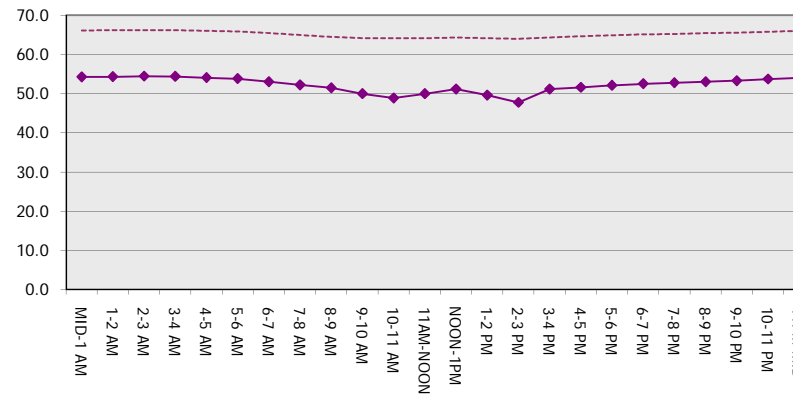
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY EASTBOUND 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	83	0.0	1500	83	0	0.43	0	66.2	54.5	45.1
1-2 AM	62	0.0	1500	62	0	0.43	0	66.3	54.5	45.3
2-3 AM	59	0.0	1500	59	0	0.43	0	66.3	54.5	45.3
3-4 AM	107	0.0	1500	107	0	0.43	0	66.2	54.4	45.1
4-5 AM	225	0.0	1500	225	0	0.44	0	66.0	54.0	44.6
5-6 AM	381	0.0	1500	381	0	0.46	0	65.7	53.5	44.0
6-7 AM	602	0.0	1500	602	0	0.48	0	65.3	52.7	43.1
7-8 AM	994	0.0	1500	994	0	0.52	0	64.5	51.5	41.7
8-9 AM	1339	0.0	1500	1339	0	0.82	0	63.9	45.8	34.5
9-10 AM	1271	0.0	1500	1271	0	0.73	0	64.0	47.3	36.3
10-11 AM	1140	0.0	1500	1140	0	0.56	0	64.3	50.5	40.4
11AM-NOON	1094	0.0	1500	1094	0	0.53	0	64.3	51.2	41.4
NOON-1PM	1046	0.0	1500	1046	0	0.52	0	64.5	51.3	41.5
1-2 PM	1059	0.0	1500	1059	0	0.52	0	64.4	51.3	41.5
2-3 PM	1065	0.0	1500	1065	0	0.53	0	64.4	51.2	41.4
3-4 PM	1062	0.0	1500	1062	0	0.53	0	64.4	51.2	41.5
4-5 PM	1038	0.0	1500	1038	0	0.52	0	64.5	51.4	41.5
5-6 PM	943	0.0	1500	943	0	0.51	0	64.6	51.6	41.9
6-7 PM	723	0.0	1500	723	0	0.49	0	65.0	52.4	42.7
7-8 PM	536	0.0	1500	536	0	0.47	0	65.4	52.9	43.3
8-9 PM	447	0.0	1500	447	0	0.47	0	65.6	53.2	43.7
9-10 PM	346	0.0	1500	346	0	0.46	0	65.8	53.6	44.1
10-11 PM	227	0.0	1500	227	0	0.44	0	66.0	54.0	44.6
11PM-MID	140	0.0	1500	140	0	0.44	0	66.1	54.3	44.9

----- 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	0.0056
MAIN ROUTE WITH WORKS	0.0045
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$2,239
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY EASTBOUND DIRECTION

