

USH 41: CTH AAA TO CTH G (BROWN COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	391	0.0	1500	391	0	0.46	0	65.6	47.3	43.9
1-2 AM	270	0.0	1500	270	0	0.45	0	65.9	47.8	44.4
2-3 AM	246	0.0	1500	246	0	0.45	0	66.0	47.9	44.5
3-4 AM	202	0.0	1500	202	0	0.44	0	66.0	48.0	44.6
4-5 AM	272	0.0	1500	272	0	0.45	0	65.9	47.8	44.4
5-6 AM	402	0.0	1500	402	0	0.46	0	65.6	47.3	43.9
6-7 AM	675	0.0	1500	675	0	0.49	0	65.1	46.3	42.8
7-8 AM	921	0.0	1500	921	0	0.51	0	64.6	45.4	42.0
8-9 AM	1189	0.0	OFF	1189	0	0.00	0	64.1	64.1	64.1
9-10 AM	1441	0.0	OFF	1441	0	0.00	0	63.7	63.7	63.7
10-11 AM	1785	0.0	OFF	1785	0	0.00	0	63.0	63.0	63.0
11AM-NOON	1930	0.0	OFF	1930	0	0.00	0	62.8	62.8	62.8
NOON-1PM	1987	0.0	OFF	1987	0	0.00	0	62.7	62.7	62.7
1-2 PM	1935	0.0	OFF	1935	0	0.00	0	62.8	62.8	62.8
2-3 PM	1894	0.0	OFF	1894	0	0.00	0	62.8	62.8	62.8
3-4 PM	1909	0.0	OFF	1909	0	0.00	0	62.8	62.8	62.8
4-5 PM	1939	0.0	OFF	1939	0	0.00	0	62.8	62.8	62.8
5-6 PM	1786	0.0	OFF	1786	0	0.00	0	63.0	63.0	63.0
6-7 PM	1549	0.0	1499	1549	0	2.38	38	63.5	21.7	30.8
7-8 PM	1351	0.0	1500	1351	0	1.12	9	63.8	33.3	33.7
8-9 PM	1348	0.0	1500	1348	0	0.83	0	63.9	38.0	34.2
9-10 PM	1210	0.0	1500	1210	0	0.65	0	64.1	41.8	38.1
10-11 PM	931	0.0	1500	931	0	0.51	0	64.6	45.3	41.9
11PM-MID	822	0.0	1500	822	0	0.50	0	64.8	45.7	42.3

"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	0.0059
MAIN ROUTE WITH WORKS	0.0052
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$2,757
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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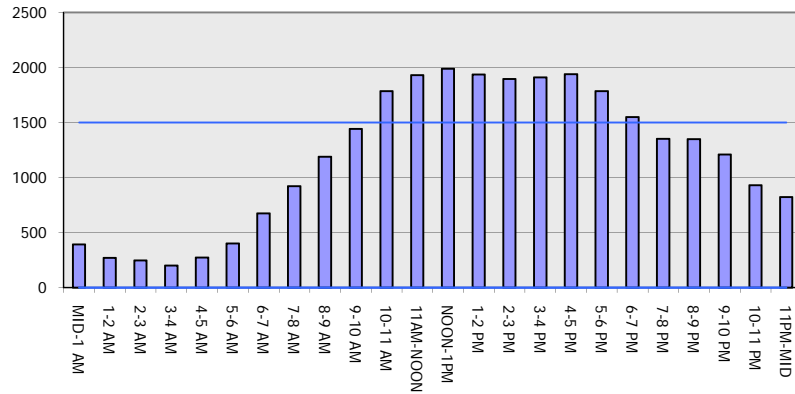
OCTOBER

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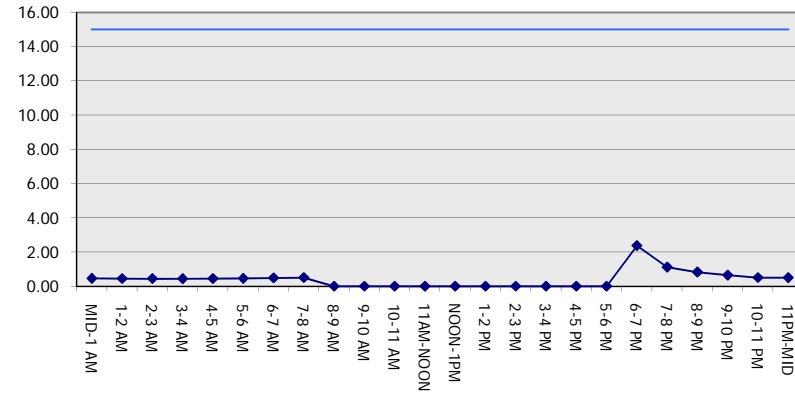
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY SOUTHBOUND DIRECTION

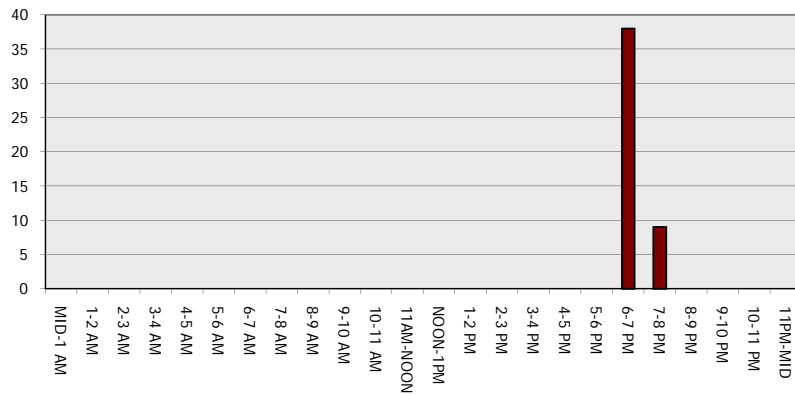
Main Route - Traffic Demand (Vehicles Per Hour)



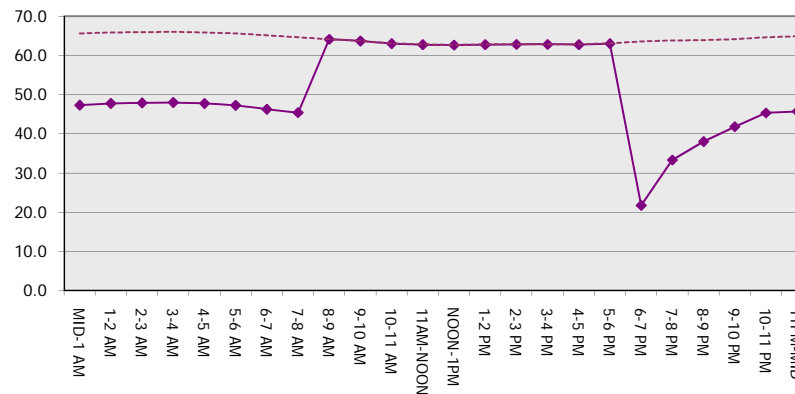
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	326	0.0	1500	326	0	0.45	0	65.8	47.6	44.2
1-2 AM	183	0.0	1500	183	0	0.44	0	66.1	48.1	44.8
2-3 AM	181	0.0	1500	181	0	0.44	0	66.1	48.1	44.8
3-4 AM	153	0.0	1500	153	0	0.44	0	66.1	48.2	44.9
4-5 AM	217	0.0	1500	217	0	0.44	0	66.0	47.9	44.6
5-6 AM	345	0.0	1500	345	0	0.46	0	65.8	47.4	44.1
6-7 AM	590	0.0	1500	590	0	0.48	0	65.3	46.6	43.2
7-8 AM	1000	0.0	1499	1000	0	0.52	0	64.5	45.1	41.7
8-9 AM	1474	0.0	OFF	1474	0	0.00	0	63.7	63.7	63.7
9-10 AM	1753	0.0	OFF	1753	0	0.00	0	63.1	63.1	63.1
10-11 AM	1930	0.0	OFF	1930	0	0.00	0	62.8	62.8	62.8
11AM-NOON	2143	0.0	OFF	2143	0	0.00	0	62.4	62.4	62.4
NOON-1PM	2125	0.0	OFF	2125	0	0.00	0	62.4	62.4	62.4
1-2 PM	1958	0.0	OFF	1958	0	0.00	0	62.7	62.7	62.7
2-3 PM	1897	0.0	OFF	1897	0	0.00	0	62.8	62.8	62.8
3-4 PM	1956	0.0	OFF	1956	0	0.00	0	62.7	62.7	62.7
4-5 PM	2085	0.0	OFF	2085	0	0.00	0	62.5	62.5	62.5
5-6 PM	2006	0.0	OFF	2006	0	0.00	0	62.7	62.7	62.7
6-7 PM	1900	0.0	1499	1900	0	8.26	219	62.8	11.0	30.8
7-8 PM	1397	0.0	1499	1397	0	14.81+	372	63.8	8.2	30.8
8-9 PM	1135	0.0	1499	1135	0	3.58	133	64.3	18.9	35.7
9-10 PM	984	0.0	1500	984	0	0.52	0	64.5	45.1	41.7
10-11 PM	705	0.0	1500	705	0	0.49	0	65.1	46.1	42.7
11PM-MID	487	0.0	1500	487	0	0.47	0	65.5	46.9	43.5

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

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

----- 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	0.0060
MAIN ROUTE WITH WORKS	0.0053
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$12,339
CONGESTED HOURS PER DAY*	1

*Delays Exceeding User-Specified Maximum

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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY NORTHBOUND DIRECTION**

