

USH 41: CTH AAA TO CTH G (BROWN COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	398	0.0	1500	398	0	1.59	104	65.6	30.9	43.3	
1-2 AM	289	0.0	1500	289	0	0.45	0	65.8	47.7	44.3	
2-3 AM	248	0.0	1500	248	0	0.45	0	66.0	47.8	44.5	
3-4 AM	222	0.0	1500	222	0	0.44	0	66.0	47.9	44.6	
4-5 AM	219	0.0	1500	219	0	0.44	0	66.0	47.9	44.6	
5-6 AM	378	0.0	1500	378	0	0.46	0	65.7	47.3	44.0	
6-7 AM	564	0.0	1500	564	0	0.48	0	65.3	46.6	43.3	
7-8 AM	900	0.0	1500	900	0	0.51	0	64.7	45.5	42.0	
8-9 AM	1187	0.0	OFF	1187	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	1784	0.0	OFF	1784	0	0.00	0	63.0	63.0	63.0	
11AM-NOON	1902	0.0	OFF	1902	0	0.00	0	62.8	62.8	62.8	
NOON-1PM	2021	0.0	OFF	2021	0	0.00	0	62.6	62.6	62.6	
1-2 PM	1938	0.0	OFF	1938	0	0.00	0	62.8	62.8	62.8	
2-3 PM	1950	0.0	OFF	1950	0	0.00	0	62.7	62.7	62.7	
3-4 PM	1876	0.0	OFF	1876	0	0.00	0	62.9	62.9	62.9	
4-5 PM	1789	0.0	OFF	1789	0	0.00	0	63.0	63.0	63.0	
5-6 PM	1563	0.0	OFF	1563	0	0.00	0	63.5	63.5	63.5	
6-7 PM	1365	0.0	1500	1365	0	0.85	0	63.8	37.6	33.8	
7-8 PM	1092	0.0	1500	1092	0	0.53	0	64.3	44.8	41.4	
8-9 PM	1097	0.0	1499	1097	0	0.54	0	64.3	44.4	40.9	
9-10 PM	1474	0.0	1499	1474	0	1.30	15	63.7	30.8	32.8	
10-11 PM	2282	0.0	1500	1874	408	13.07+	345	62.2	8.8	30.8	
11PM-MID	1762	0.0	1500	1502	260	17.37+	441	63.1	7.7	30.8	

"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

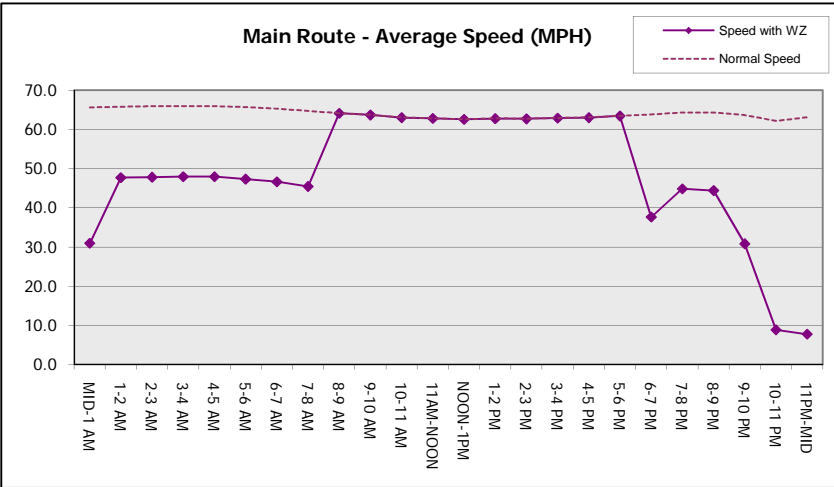
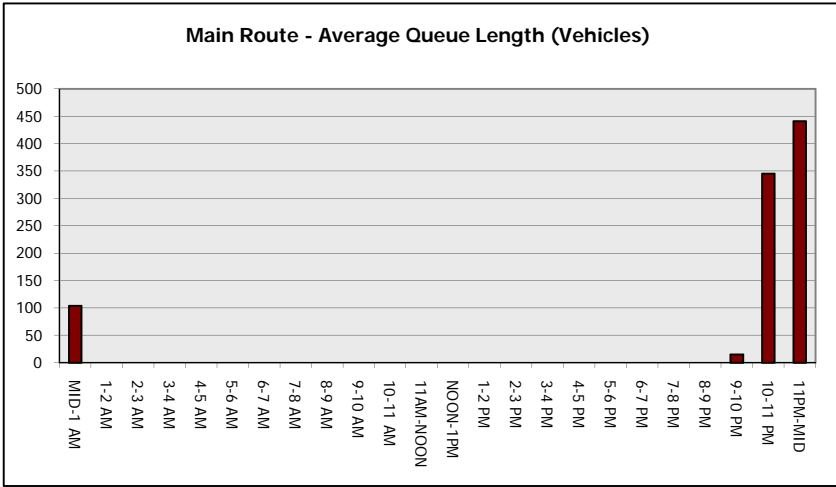
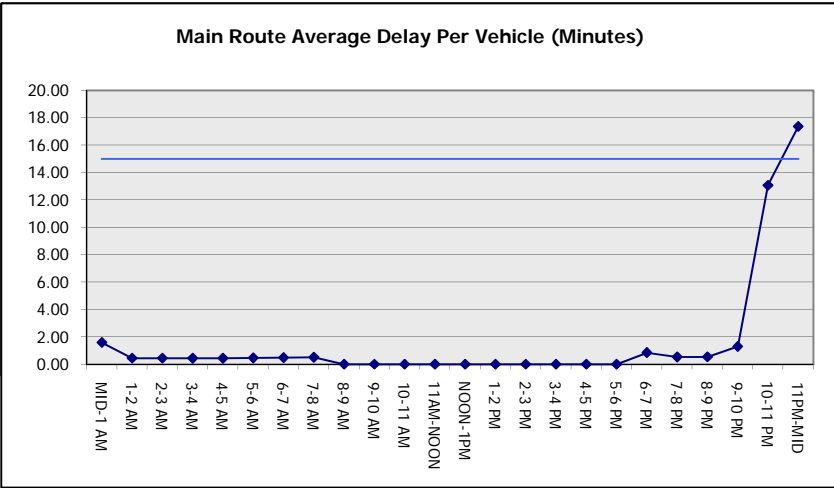
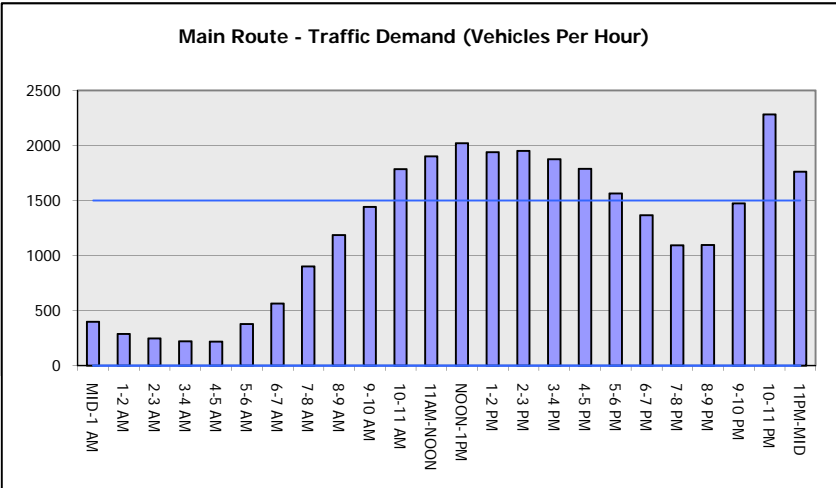
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0061
MAIN ROUTE WITH WORKS	0.0052
'DIVERSION'	0.0003
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$17,918
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION



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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	336	0.0	1500	336	0	0.46	0	65.8	47.5	44.2
1-2 AM	220	0.0	1500	220	0	0.44	0	66.0	47.9	44.6
2-3 AM	190	0.0	1500	190	0	0.44	0	66.0	48.1	44.7
3-4 AM	158	0.0	1500	158	0	0.44	0	66.1	48.2	44.8
4-5 AM	198	0.0	1500	198	0	0.44	0	66.0	48.0	44.7
5-6 AM	338	0.0	1500	338	0	0.46	0	65.8	47.5	44.2
6-7 AM	568	0.0	1500	568	0	0.48	0	65.3	46.6	43.2
7-8 AM	890	0.0	1500	890	0	0.51	0	64.7	45.5	42.0
8-9 AM	1304	0.0	OFF	1304	0	0.00	0	64.0	64.0	64.0
9-10 AM	1667	0.0	OFF	1667	0	0.00	0	63.3	63.3	63.3
10-11 AM	2043	0.0	OFF	2043	0	0.00	0	62.6	62.6	62.6
11AM-NOON	2189	0.0	OFF	2189	0	0.00	0	62.3	62.3	62.3
NOON-1PM	2199	0.0	OFF	2199	0	0.00	0	62.3	62.3	62.3
1-2 PM	2293	0.0	OFF	2293	0	0.00	0	62.1	62.1	62.1
2-3 PM	2460	0.0	OFF	2460	0	0.00	0	61.3	61.3	61.3
3-4 PM	2570	0.0	OFF	2570	0	0.00	0	60.2	60.2	60.2
4-5 PM	2599	0.0	OFF	2599	0	0.00	0	59.9	59.9	59.9
5-6 PM	2321	0.0	OFF	2321	0	0.00	0	62.0	62.0	62.0
6-7 PM	1792	0.0	1499	1792	0	7.20	181	63.0	11.7	30.8
7-8 PM	1170	0.0	1499	1170	0	4.63	153	64.2	16.0	34.8
8-9 PM	990	0.0	1500	990	0	0.52	0	64.5	45.1	41.7
9-10 PM	835	0.0	1500	835	0	0.50	0	64.8	45.7	42.3
10-11 PM	720	0.0	1500	720	0	0.49	0	65.0	46.1	42.7
11PM-MID	551	0.0	1500	551	0	0.48	0	65.3	46.7	43.3

"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	0.0063
MAIN ROUTE WITH WORKS	0.0057
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$5,711
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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