

USH 41: STH 29 TO CTH AAA (BROWN COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	288	0.0	1500	288	0	0.45	0	65.8	59.7	44.3
1-2 AM	233	0.0	1500	233	0	0.45	0	66.0	59.9	44.5
2-3 AM	227	0.0	1500	227	0	0.44	0	66.0	59.9	44.6
3-4 AM	224	0.0	1500	224	0	0.44	0	66.0	59.9	44.6
4-5 AM	471	0.0	1500	471	0	0.47	0	65.5	59.2	43.6
5-6 AM	1257	0.0	OFF	1257	0	0.00	0	64.0	64.0	64.0
6-7 AM	2684	0.0	OFF	2684	0	0.00	0	59.0	59.0	59.0
7-8 AM	3425	0.0	OFF	3425	0	0.00	0	51.4	51.4	51.4
8-9 AM	2290	0.0	OFF	2290	0	0.00	0	62.1	62.1	62.1
9-10 AM	1973	0.0	OFF	1973	0	0.00	0	62.7	62.7	62.7
10-11 AM	1998	0.0	OFF	1998	0	0.00	0	62.7	62.7	62.7
11AM-NOON	2349	0.0	OFF	2349	0	0.00	0	62.0	62.0	62.0
NOON-1PM	2549	0.0	OFF	2549	0	0.00	0	60.4	60.4	60.4
1-2 PM	2661	0.0	OFF	2661	0	0.00	0	59.2	59.2	59.2
2-3 PM	2748	0.0	OFF	2748	0	0.00	0	58.4	58.4	58.4
3-4 PM	3143	0.0	OFF	3143	0	0.00	0	54.3	54.3	54.3
4-5 PM	3664	0.0	OFF	3664	0	0.00	0	48.9	48.9	48.9
5-6 PM	3141	0.0	OFF	3141	0	0.00	0	54.3	54.3	54.3
6-7 PM	2039	0.0	OFF	2039	0	0.00	0	62.6	62.6	62.6
7-8 PM	1403	0.0	1499	1403	0	0.92	0	63.8	52.9	33.2
8-9 PM	1208	0.0	1500	1208	0	0.65	0	64.1	56.0	38.2
9-10 PM	1130	0.0	1500	1130	0	0.55	0	64.3	57.3	40.8
10-11 PM	1044	0.0	1500	1044	0	0.52	0	64.5	57.7	41.5
11PM-MID	674	0.0	1500	674	0	0.49	0	65.1	58.6	42.8

"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

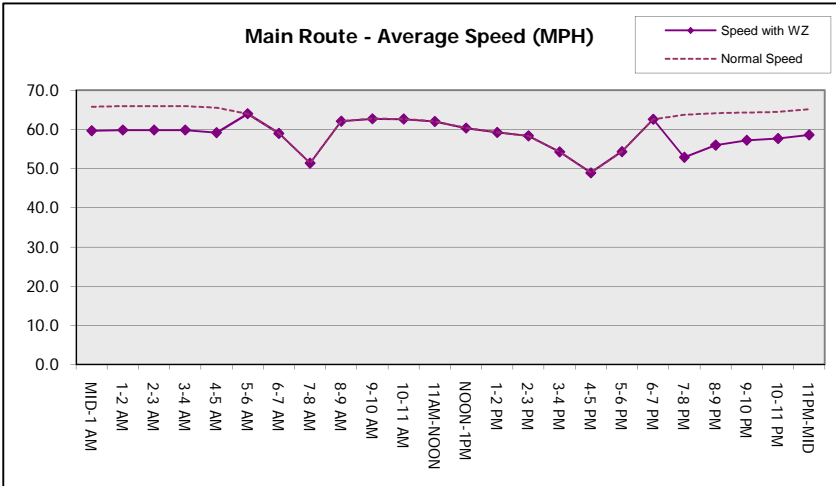
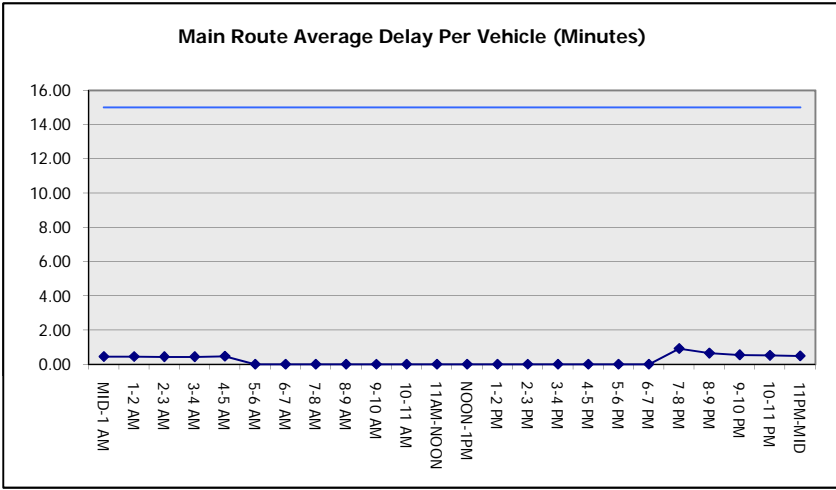
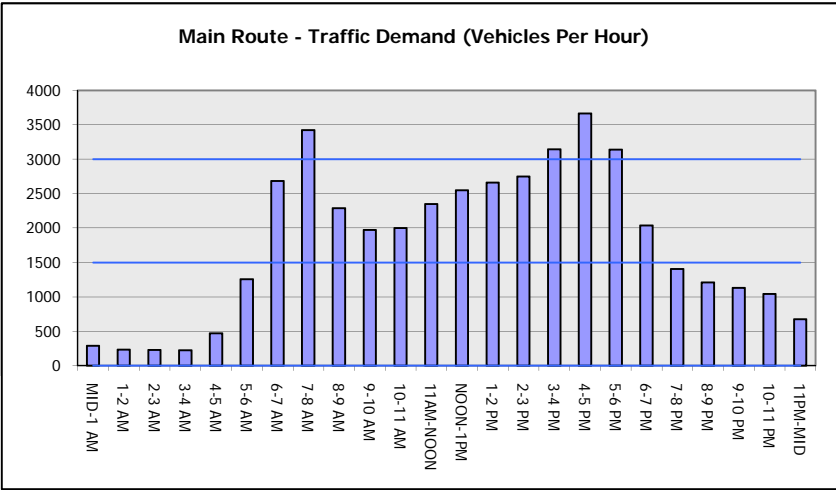
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0327
MAIN ROUTE WITH WORKS	0.0322
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,021
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	240	0.0	1500	240	0	0.45	0	66.0	59.8	44.5
1-2 AM	161	0.0	1500	161	0	0.44	0	66.1	60.1	44.8
2-3 AM	195	0.0	1500	195	0	0.44	0	66.0	59.9	44.7
3-4 AM	191	0.0	1500	191	0	0.44	0	66.0	60.0	44.7
4-5 AM	319	0.0	1500	319	0	0.45	0	65.8	59.6	44.2
5-6 AM	872	0.0	OFF	872	0	0.00	0	64.8	64.8	64.8
6-7 AM	2115	0.0	OFF	2115	0	0.00	0	62.5	62.5	62.5
7-8 AM	3633	0.0	OFF	3633	0	0.00	0	49.3	49.3	49.3
8-9 AM	2656	0.0	OFF	2656	0	0.00	0	59.3	59.3	59.3
9-10 AM	2243	0.0	OFF	2243	0	0.00	0	62.2	62.2	62.2
10-11 AM	2187	0.0	OFF	2187	0	0.00	0	62.3	62.3	62.3
11AM-NOON	2510	0.0	OFF	2510	0	0.00	0	60.8	60.8	60.8
NOON-1PM	2785	0.0	OFF	2785	0	0.00	0	57.9	57.9	57.9
1-2 PM	2697	0.0	OFF	2697	0	0.00	0	58.9	58.9	58.9
2-3 PM	2995	0.0	OFF	2995	0	0.00	0	55.8	55.8	55.8
3-4 PM	3641	0.0	OFF	3641	0	0.00	0	49.2	49.2	49.2
4-5 PM	4114	0.0	OFF	4114	0	0.00	0	44.3	44.3	44.3
5-6 PM	3632	0.0	OFF	3632	0	0.00	0	49.3	49.3	49.3
6-7 PM	2622	0.0	OFF	2622	0	0.00	0	59.6	59.6	59.6
7-8 PM	2029	0.0	1499	1879	150	10.22+	278	62.6	19.4	30.8
8-9 PM	1508	0.0	1500	1474	33	15.28+	385	63.6	14.5	30.8
9-10 PM	1282	0.0	1499	1282	0	10.30	260	64.0	19.4	31.2
10-11 PM	1000	0.0	1500	1000	0	1.12	21	64.5	51.6	40.8
11PM-MID	621	0.0	1500	621	0	0.48	0	65.2	58.8	43.0

"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	0.0353
MAIN ROUTE WITH WORKS	0.0347
'DIVERSION'	0.0003

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$14,236
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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