

USH 41: STH 29 TO CTH AAA (BROWN COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	359	0.0	1500	359	0	0.46	0	65.7	59.5	44.0
1-2 AM	257	0.0	1500	257	0	0.45	0	65.9	59.8	44.5
2-3 AM	226	0.0	1500	226	0	0.44	0	66.0	59.9	44.6
3-4 AM	235	0.0	1500	235	0	0.45	0	66.0	59.9	44.5
4-5 AM	507	0.0	1500	507	0	0.47	0	65.5	59.1	43.5
5-6 AM	1317	0.0	OFF	1317	0	0.00	0	63.9	63.9	63.9
6-7 AM	2546	0.0	OFF	2546	0	0.00	0	60.4	60.4	60.4
7-8 AM	3247	0.0	OFF	3247	0	0.00	0	53.2	53.2	53.2
8-9 AM	2256	0.0	OFF	2256	0	0.00	0	62.2	62.2	62.2
9-10 AM	2161	0.0	OFF	2161	0	0.00	0	62.3	62.3	62.3
10-11 AM	2345	0.0	OFF	2345	0	0.00	0	62.0	62.0	62.0
11AM-NOON	2577	0.0	OFF	2577	0	0.00	0	60.1	60.1	60.1
NOON-1PM	2801	0.0	OFF	2801	0	0.00	0	57.8	57.8	57.8
1-2 PM	2899	0.0	OFF	2899	0	0.00	0	56.8	56.8	56.8
2-3 PM	3046	0.0	OFF	3046	0	0.00	0	55.3	55.3	55.3
3-4 PM	3247	0.0	OFF	3247	0	0.00	0	53.2	53.2	53.2
4-5 PM	3609	0.0	OFF	3609	0	0.00	0	49.6	49.6	49.6
5-6 PM	3160	0.0	OFF	3160	0	0.00	0	54.2	54.2	54.2
6-7 PM	2097	0.0	OFF	2097	0	0.00	0	62.5	62.5	62.5
7-8 PM	1510	0.0	1499	1510	0	2.12	30	63.6	43.3	31.2
8-9 PM	1278	0.0	1500	1278	0	0.75	0	64.0	54.9	36.1
9-10 PM	1127	0.0	1500	1127	0	0.54	0	64.3	57.3	40.9
10-11 PM	966	0.0	1500	966	0	0.52	0	64.6	57.9	41.8
11PM-MID	703	0.0	1500	703	0	0.49	0	65.1	58.6	42.7

"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

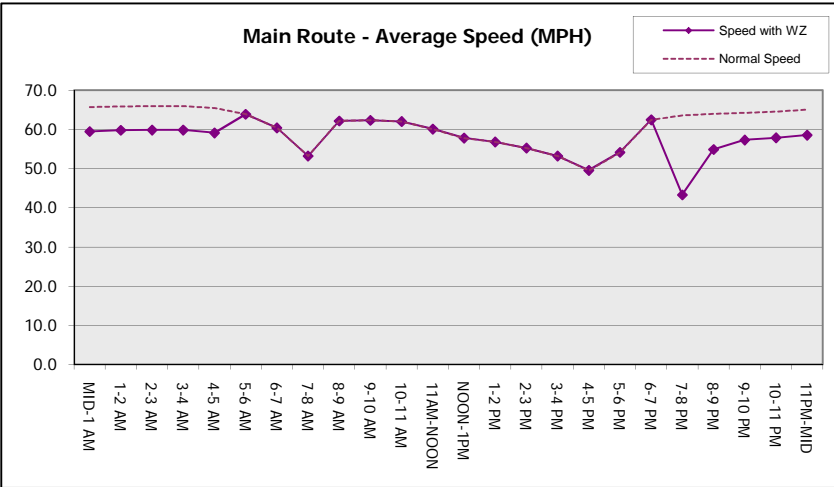
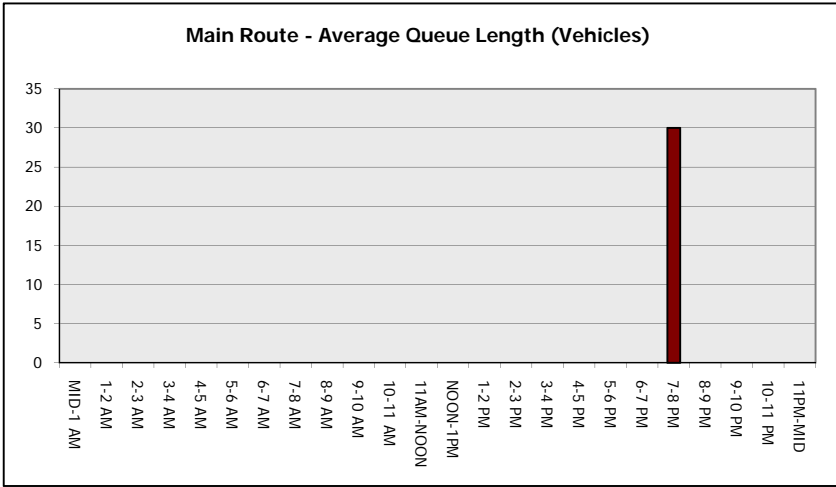
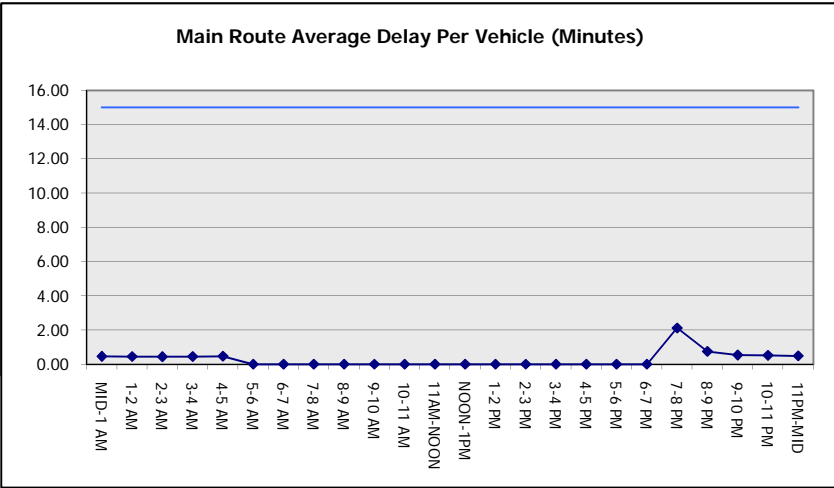
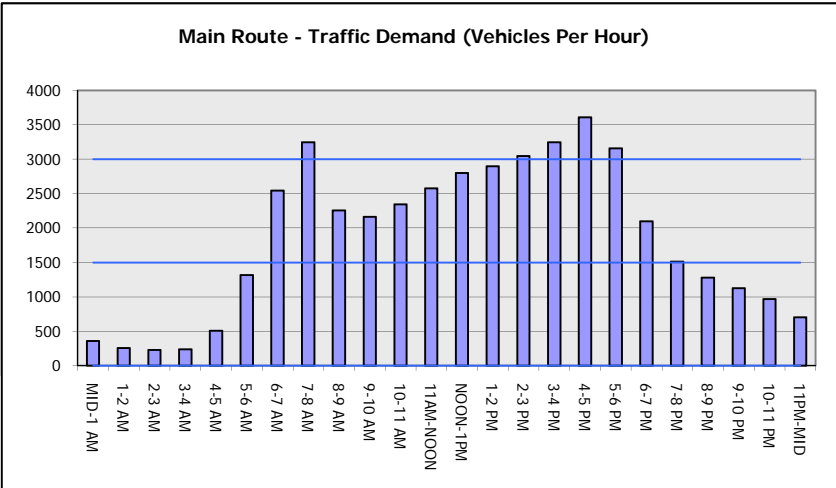
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0340
MAIN ROUTE WITH WORKS	0.0335
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,549
CONGESTED HOURS PER DAY*	0

*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	354	0.0	1500	354	0	0.46	0	65.7	59.5	44.1
1-2 AM	220	0.0	1500	220	0	0.44	0	66.0	59.9	44.6
2-3 AM	219	0.0	1500	219	0	0.44	0	66.0	59.9	44.6
3-4 AM	216	0.0	1500	216	0	0.44	0	66.0	59.9	44.6
4-5 AM	339	0.0	1500	339	0	0.46	0	65.8	59.6	44.2
5-6 AM	878	0.0	OFF	878	0	0.00	0	64.8	64.8	64.8
6-7 AM	2082	0.0	OFF	2082	0	0.00	0	62.5	62.5	62.5
7-8 AM	3323	0.0	OFF	3323	0	0.00	0	52.5	52.5	52.5
8-9 AM	2546	0.0	OFF	2546	0	0.00	0	60.4	60.4	60.4
9-10 AM	2414	0.0	OFF	2414	0	0.00	0	61.8	61.8	61.8
10-11 AM	2570	0.0	OFF	2570	0	0.00	0	60.2	60.2	60.2
11AM-NOON	2805	0.0	OFF	2805	0	0.00	0	57.8	57.8	57.8
NOON-1PM	2982	0.0	OFF	2982	0	0.00	0	56.0	56.0	56.0
1-2 PM	3017	0.0	OFF	3017	0	0.00	0	55.6	55.6	55.6
2-3 PM	3372	0.0	OFF	3372	0	0.00	0	52.0	52.0	52.0
3-4 PM	3736	0.0	OFF	3736	0	0.00	0	48.3	48.3	48.3
4-5 PM	4196	0.0	OFF	4196	0	0.00	0	43.5	43.5	43.5
5-6 PM	3776	0.0	OFF	3776	0	0.00	0	47.8	47.8	47.8
6-7 PM	2723	0.0	OFF	2723	0	0.00	0	58.6	58.6	58.6
7-8 PM	1955	0.0	1499	1939	17	9.51+	260	62.7	20.4	30.8
8-9 PM	1581	0.0	1499	1457	124	15.57+	392	63.5	14.3	30.8
9-10 PM	1332	0.0	1499	1332	0	13.08+	329	63.9	16.3	30.8
10-11 PM	1007	0.0	1499	1007	0	2.10	62	64.5	43.8	39.1
11PM-MID	687	0.0	1500	687	0	0.49	0	65.1	58.6	42.8

"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	0.0369
MAIN ROUTE WITH WORKS	0.0363
'DIVERSION'	0.0002

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$15,564
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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