

USH 41: STH 29 TO CTH AAA (BROWN COUNTY) OFF-PEAK DAY 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	444	0.0	OFF	444	0	0.00	0	65.6	65.6	65.6	
1-2 AM	324	0.0	OFF	324	0	0.00	0	65.8	65.8	65.8	
2-3 AM	277	0.0	OFF	277	0	0.00	0	65.9	65.9	65.9	
3-4 AM	248	0.0	OFF	248	0	0.00	0	66.0	66.0	66.0	
4-5 AM	245	0.0	OFF	245	0	0.00	0	66.0	66.0	66.0	
5-6 AM	423	0.0	OFF	423	0	0.00	0	65.6	65.6	65.6	
6-7 AM	629	0.0	OFF	629	0	0.00	0	65.2	65.2	65.2	
7-8 AM	1005	0.0	OFF	1005	0	0.00	0	64.5	64.5	64.5	
8-9 AM	1325	0.0	1499	1325	0	0.80	0	63.9	54.3	35.0	
9-10 AM	1608	0.0	1499	1608	0	2.10	33	63.4	43.3	30.8	
10-11 AM	1992	0.0	1500	1751	241	11.45+	303	62.7	17.9	30.8	
11AM-NOON	2124	0.0	1499	1500	624	15.77+	399	62.4	14.1	30.8	
NOON-1PM	2256	0.0	1500	1500	756	15.75+	400	62.2	14.1	30.8	
1-2 PM	2163	0.0	1500	1500	663	15.76+	400	62.3	14.1	30.8	
2-3 PM	2178	0.0	1500	1500	678	15.76+	400	62.3	14.1	30.8	
3-4 PM	2095	0.0	1500	1500	595	15.77+	400	62.5	14.1	30.8	
4-5 PM	1997	0.0	1500	1500	497	15.79+	400	62.7	14.1	30.8	
5-6 PM	1744	0.0	1500	1527	217	15.70+	396	63.2	14.2	30.8	
6-7 PM	1524	0.0	OFF	1524	0	0.50	30	63.5	57.2	57.2	
7-8 PM	1220	0.0	OFF	1220	0	0.00	0	64.1	64.1	64.1	
8-9 PM	1225	0.0	OFF	1225	0	0.00	0	64.1	64.1	64.1	
9-10 PM	1646	0.0	OFF	1646	0	0.00	0	63.3	63.3	63.3	
10-11 PM	2548	0.0	OFF	2548	0	0.00	0	60.4	60.4	60.4	
11PM-MID	1967	0.0	OFF	1967	0	0.00	0	62.7	62.7	62.7	

"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

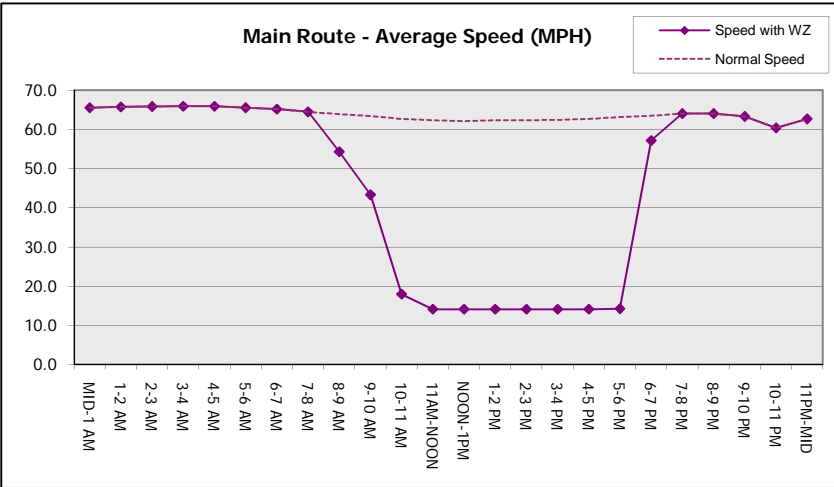
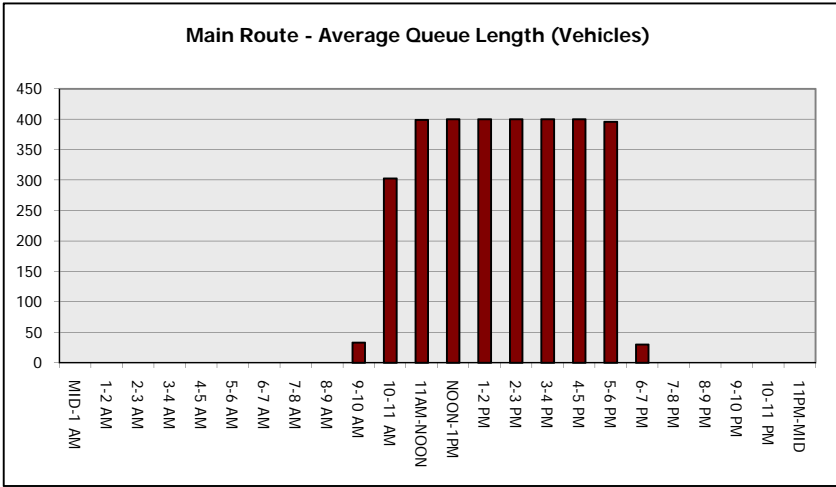
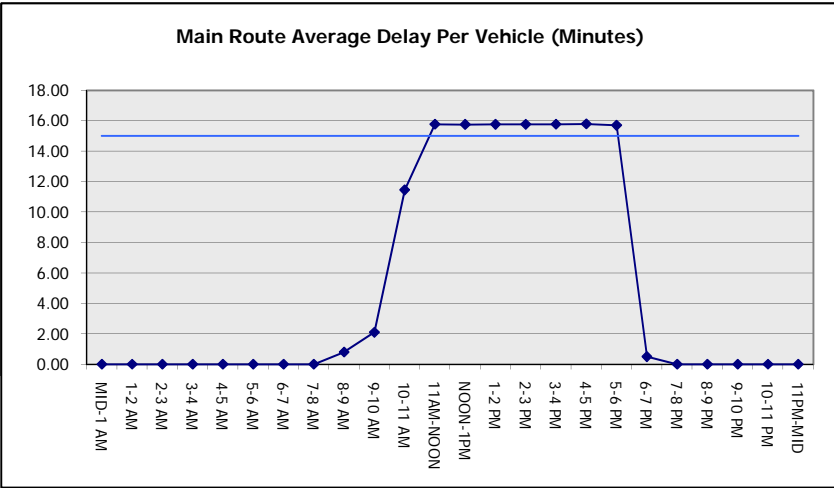
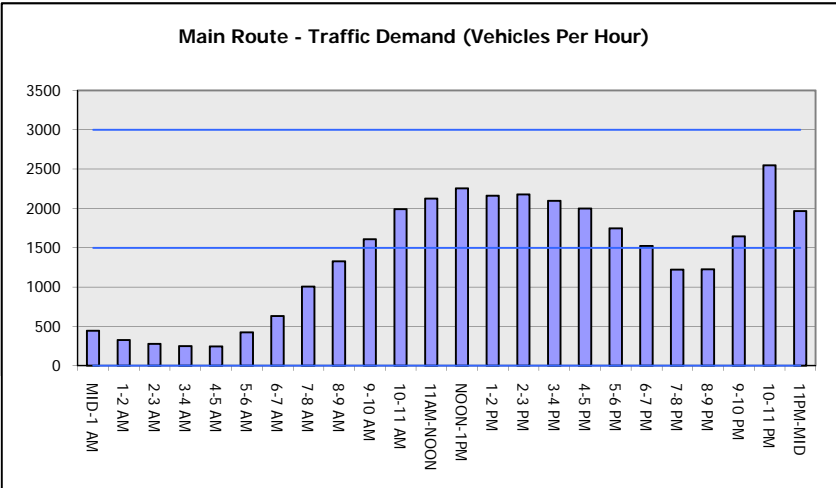
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0253
MAIN ROUTE WITH WORKS	0.0211
'DIVERSION'	0.0076
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$70,708
CONGESTED HOURS PER DAY*	8

*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	375	0.0	OFF	375	0	0.00	0	65.7	65.7	65.7
1-2 AM	246	0.0	OFF	246	0	0.00	0	66.0	66.0	66.0
2-3 AM	211	0.0	OFF	211	0	0.00	0	66.0	66.0	66.0
3-4 AM	177	0.0	OFF	177	0	0.00	0	66.1	66.1	66.1
4-5 AM	220	0.0	OFF	220	0	0.00	0	66.0	66.0	66.0
5-6 AM	377	0.0	OFF	377	0	0.00	0	65.7	65.7	65.7
6-7 AM	634	0.0	OFF	634	0	0.00	0	65.2	65.2	65.2
7-8 AM	993	0.0	OFF	993	0	0.00	0	64.5	64.5	64.5
8-9 AM	1456	0.0	1499	1456	0	1.19	8	63.7	50.4	32.5
9-10 AM	1861	0.0	1500	1861	0	6.93	186	62.9	25.0	30.8
10-11 AM	2281	0.0	1499	1500	781	15.75+	399	62.2	14.1	30.8
11AM-NOON	2443	0.0	1500	1500	943	15.70+	400	61.5	14.1	30.8
NOON-1PM	2455	0.0	1500	1500	955	15.69+	400	61.4	14.1	30.8
1-2 PM	2560	0.0	1500	1500	1060	15.60+	400	60.3	14.1	30.8
2-3 PM	2747	0.0	1500	1500	1247	15.45+	400	58.4	14.1	30.8
3-4 PM	2869	0.0	1500	1500	1369	15.34+	400	57.1	14.1	30.8
4-5 PM	2903	0.0	1500	1500	1403	15.31+	400	56.8	14.1	30.8
5-6 PM	2592	0.0	1500	1500	1092	15.58+	400	59.9	14.1	30.8
6-7 PM	2001	0.0	OFF	2001	0	0.63	38	62.7	55.1	55.1
7-8 PM	1306	0.0	OFF	1306	0	0.00	0	64.0	64.0	64.0
8-9 PM	1106	0.0	OFF	1106	0	0.00	0	64.3	64.3	64.3
9-10 PM	932	0.0	OFF	932	0	0.00	0	64.6	64.6	64.6
10-11 PM	805	0.0	OFF	805	0	0.00	0	64.9	64.9	64.9
11PM-MID	616	0.0	OFF	616	0	0.00	0	65.3	65.3	65.3

"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	0.0261
MAIN ROUTE WITH WORKS	0.0183
'DIVERSION'	0.0156

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$93,372
CONGESTED HOURS PER DAY*	8

*Delays Exceeding User-Specified Maximum

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