

USH 41: CTH M TO IH 43 (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	200	0.0	OFF	200	0	0.00	0	66.0	66.0	66.0	
1-2 AM	119	0.0	OFF	119	0	0.00	0	66.1	66.1	66.1	
2-3 AM	130	0.0	OFF	130	0	0.00	0	66.1	66.1	66.1	
3-4 AM	102	0.0	OFF	102	0	0.00	0	66.2	66.2	66.2	
4-5 AM	220	0.0	OFF	220	0	0.00	0	66.0	66.0	66.0	
5-6 AM	453	0.0	OFF	453	0	0.00	0	65.5	65.5	65.5	
6-7 AM	559	0.0	OFF	559	0	0.00	0	65.3	65.3	65.3	
7-8 AM	811	0.0	OFF	811	0	0.00	0	64.9	64.9	64.9	
8-9 AM	1114	0.0	1499	1114	0	0.58	0	64.3	50.2	40.1	
9-10 AM	1469	0.0	1499	1469	0	1.19	7	63.7	40.5	32.2	
10-11 AM	1854	0.0	1500	1854	0	7.16	193	62.9	15.0	30.8	
11AM-NOON	1920	0.0	1499	1506	414	16.74+	424	62.8	9.0	30.8	
NOON-1PM	1898	0.0	1500	1505	393	16.74+	424	62.8	9.0	30.8	
1-2 PM	1823	0.0	1500	1504	319	16.74+	424	63.0	9.0	30.8	
2-3 PM	1854	0.0	1500	1504	351	16.74+	424	62.9	9.0	30.8	
3-4 PM	1721	0.0	1500	1503	218	16.74+	424	63.2	9.0	30.8	
4-5 PM	1705	0.0	1500	1503	202	16.74+	424	63.2	9.0	30.8	
5-6 PM	1592	0.0	1500	1509	82	16.56+	419	63.4	9.0	30.8	
6-7 PM	1103	0.0	OFF	1103	0	0.48	30	64.3	52.2	52.2	
7-8 PM	881	0.0	OFF	881	0	0.00	0	64.8	64.8	64.8	
8-9 PM	760	0.0	OFF	760	0	0.00	0	65.0	65.0	65.0	
9-10 PM	681	0.0	OFF	681	0	0.00	0	65.1	65.1	65.1	
10-11 PM	526	0.0	OFF	526	0	0.00	0	65.4	65.4	65.4	
11PM-MID	298	0.0	OFF	298	0	0.00	0	65.8	65.8	65.8	

"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

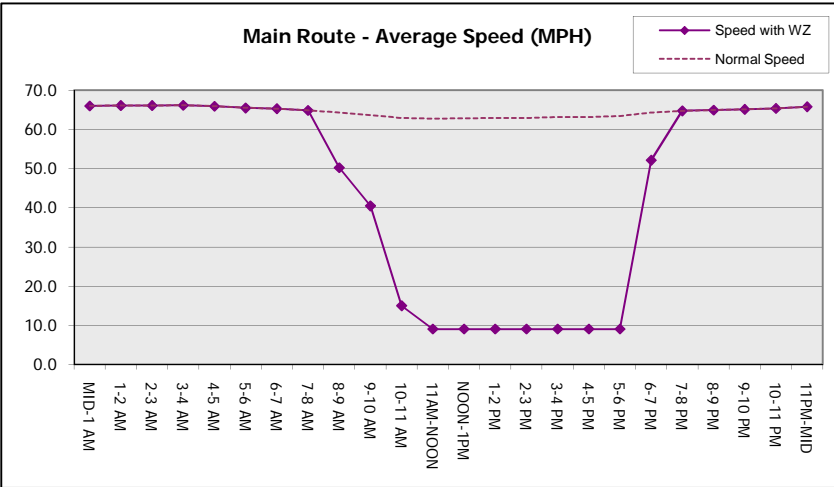
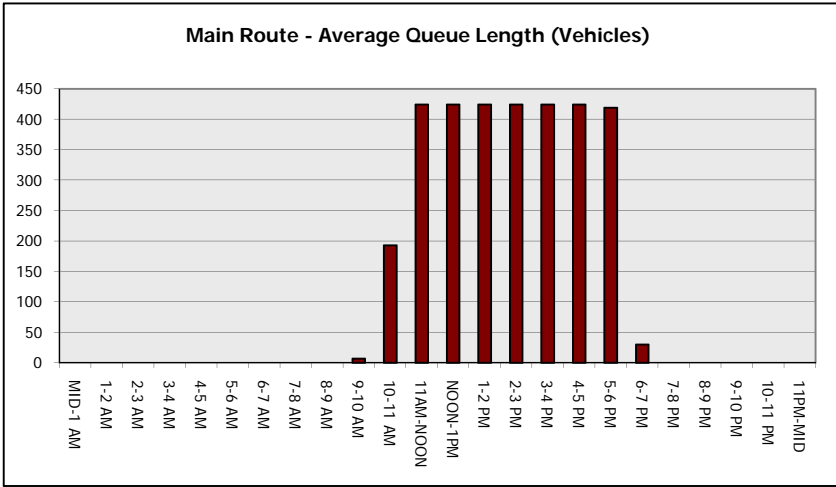
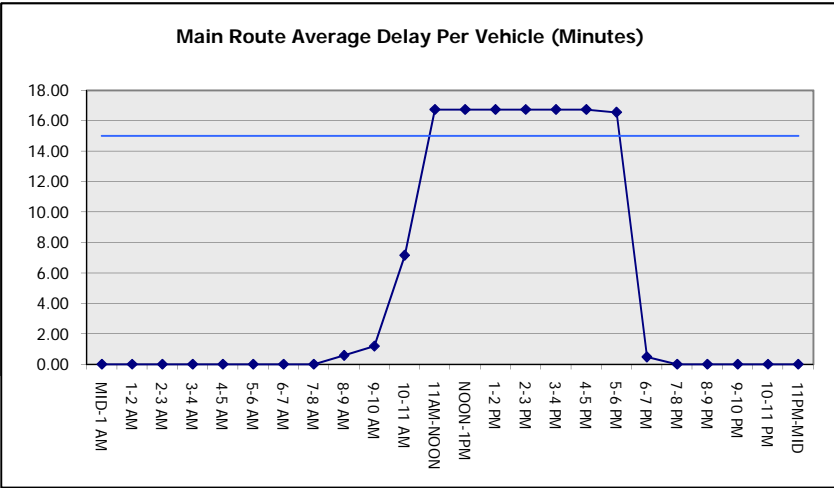
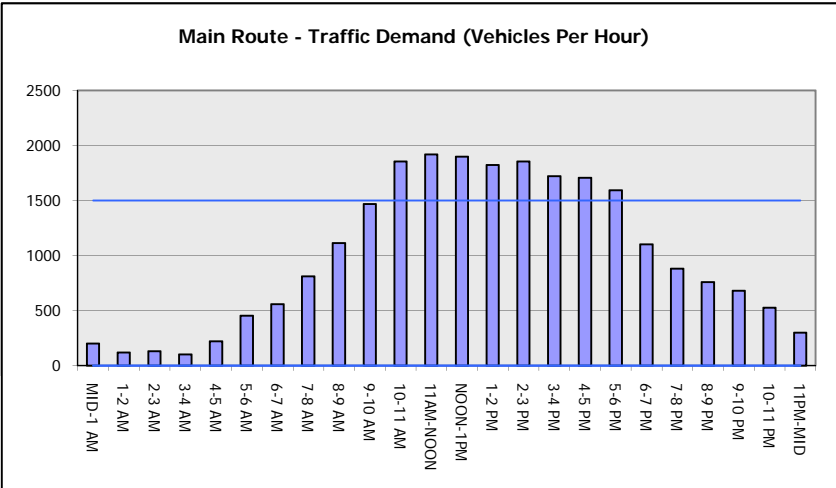
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0083
MAIN ROUTE WITH WORKS	0.0066
'DIVERSION'	0.0016
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$62,435
CONGESTED HOURS PER DAY*	7

*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	393	0.0	OFF	393	0	0.00	0	65.6	65.6	65.6
1-2 AM	211	0.0	OFF	211	0	0.00	0	66.0	66.0	66.0
2-3 AM	184	0.0	OFF	184	0	0.00	0	66.0	66.0	66.0
3-4 AM	146	0.0	OFF	146	0	0.00	0	66.1	66.1	66.1
4-5 AM	149	0.0	OFF	149	0	0.00	0	66.1	66.1	66.1
5-6 AM	276	0.0	OFF	276	0	0.00	0	65.9	65.9	65.9
6-7 AM	588	0.0	OFF	588	0	0.00	0	65.3	65.3	65.3
7-8 AM	735	0.0	OFF	735	0	0.00	0	65.0	65.0	65.0
8-9 AM	1164	0.0	1499	1164	0	0.62	0	64.2	49.4	38.9
9-10 AM	1553	0.0	1499	1553	0	1.55	18	63.5	36.4	31.2
10-11 AM	1952	0.0	1500	1908	43	10.37+	279	62.7	11.7	30.8
11AM-NOON	2027	0.0	1500	1473	554	16.68+	423	62.6	9.0	30.8
NOON-1PM	2016	0.0	1499	1495	521	16.74+	425	62.7	9.0	30.8
1-2 PM	1847	0.0	1499	1496	351	16.74+	424	63.0	9.0	30.8
2-3 PM	1810	0.0	1499	1496	314	16.74+	424	63.0	9.0	30.8
3-4 PM	1660	0.0	1499	1486	174	16.69+	423	63.3	9.0	30.8
4-5 PM	1487	0.0	1499	1466	21	16.46+	416	63.6	9.1	30.8
5-6 PM	1323	0.0	1499	1323	0	12.54+	314	63.9	10.4	30.8
6-7 PM	1282	0.0	OFF	1282	0	0.15	8	64.0	59.7	59.7
7-8 PM	993	0.0	OFF	993	0	0.00	0	64.5	64.5	64.5
8-9 PM	870	0.0	OFF	870	0	0.00	0	64.8	64.8	64.8
9-10 PM	769	0.0	OFF	769	0	0.00	0	65.0	65.0	65.0
10-11 PM	811	0.0	OFF	811	0	0.00	0	64.9	64.9	64.9
11PM-MID	636	0.0	OFF	636	0	0.00	0	65.2	65.2	65.2

"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	0.0087
MAIN ROUTE WITH WORKS	0.0070
'DIVERSION'	0.0016

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$61,252
CONGESTED HOURS PER DAY*	8

*Delays Exceeding User-Specified Maximum

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