

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

SUNDAY 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	100	0.0	OFF	100	0	0.00	0	66.2	66.2	66.2	
2-3 AM	106	0.0	OFF	106	0	0.00	0	66.2	66.2	66.2	
3-4 AM	92	0.0	OFF	92	0	0.00	0	66.2	66.2	66.2	
4-5 AM	141	0.0	OFF	141	0	0.00	0	66.1	66.1	66.1	
5-6 AM	291	0.0	OFF	291	0	0.00	0	65.8	65.8	65.8	
6-7 AM	336	0.0	OFF	336	0	0.00	0	65.8	65.8	65.8	
7-8 AM	494	0.0	OFF	494	0	0.00	0	65.5	65.5	65.5	
8-9 AM	899	0.0	OFF	899	0	0.00	0	64.7	64.7	64.7	
9-10 AM	1518	0.0	1499	1518	0	1.50	19	63.5	36.9	32.2	
10-11 AM	2025	0.0	1500	1878	147	10.50+	283	62.6	11.7	30.8	
11AM-NOON	2636	0.0	1500	1481	1155	16.75+	429	59.5	8.9	30.8	
NOON-1PM	2892	0.0	1499	1497	1395	16.79+	434	56.9	8.9	30.8	
1-2 PM	2790	0.0	1500	1497	1293	16.74+	431	57.9	8.9	30.8	
2-3 PM	2754	0.0	1499	1499	1255	16.72+	430	58.3	8.9	30.8	
3-4 PM	2788	0.0	1499	1500	1287	16.74+	431	57.9	8.9	30.8	
4-5 PM	2588	0.0	1500	1498	1090	16.68+	426	60.0	8.9	30.8	
5-6 PM	2398	0.0	1500	1500	899	16.74+	426	61.9	8.9	30.8	
6-7 PM	1884	0.0	1500	1499	384	16.74+	424	62.8	9.0	30.8	
7-8 PM	1504	0.0	OFF	1504	0	0.58	36	63.6	49.7	49.7	
8-9 PM	1092	0.0	OFF	1092	0	0.00	0	64.3	64.3	64.3	
9-10 PM	673	0.0	OFF	673	0	0.00	0	65.1	65.1	65.1	
10-11 PM	404	0.0	OFF	404	0	0.00	0	65.6	65.6	65.6	
11PM-MID	179	0.0	OFF	179	0	0.00	0	66.1	66.1	66.1	

"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

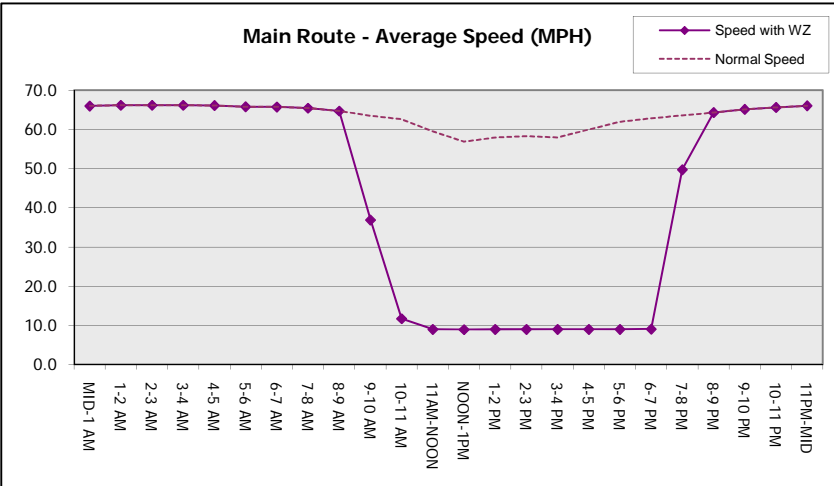
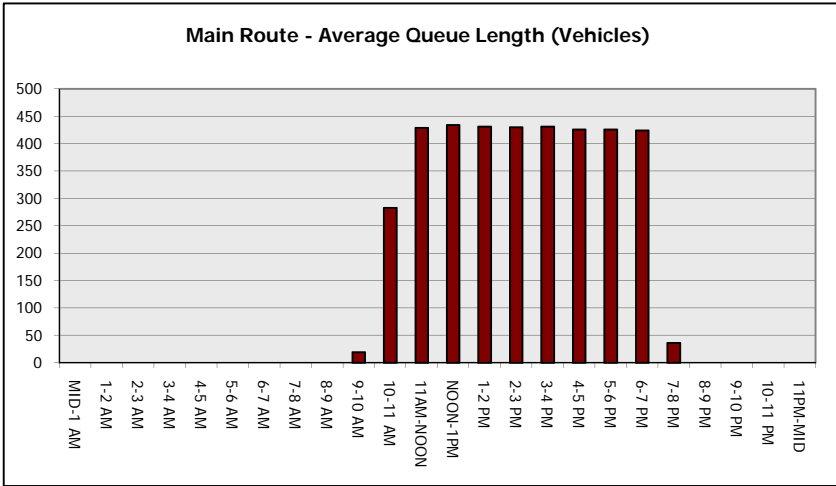
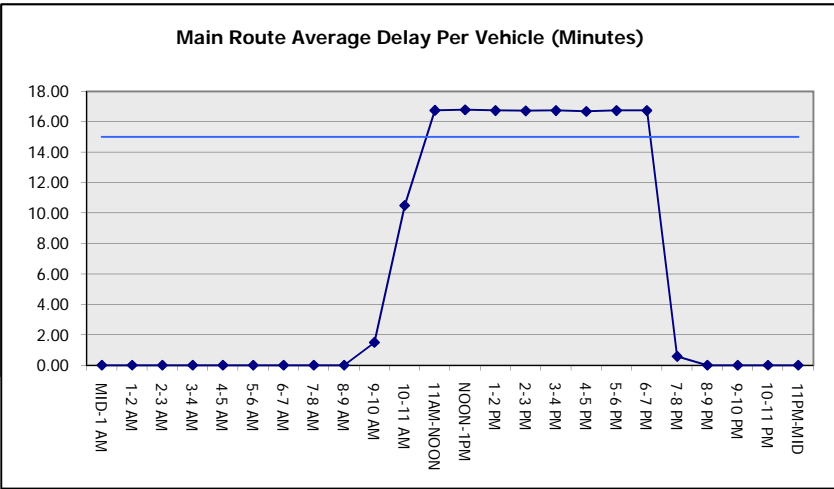
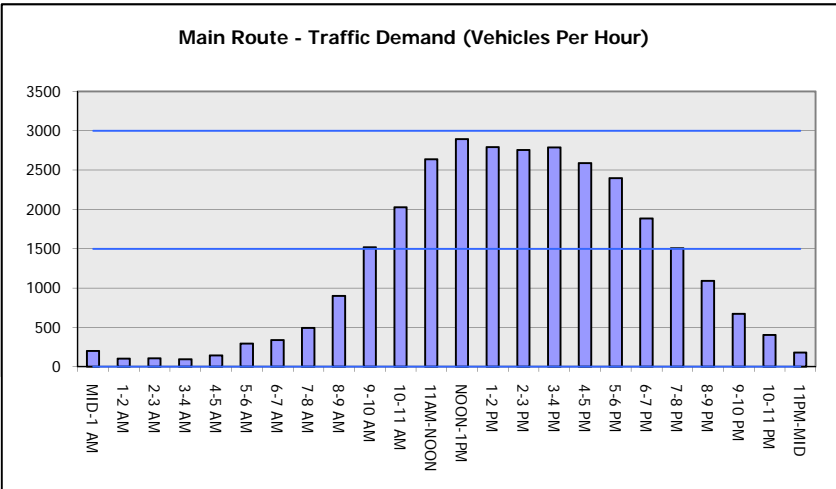
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0108
MAIN ROUTE WITH WORKS	0.0066
'DIVERSION'	0.0072
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$103,534
CONGESTED HOURS PER DAY*	9

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	289	0.0	OFF	289	0	0.00	0	65.8	65.8	65.8
1-2 AM	174	0.0	OFF	174	0	0.00	0	66.1	66.1	66.1
2-3 AM	140	0.0	OFF	140	0	0.00	0	66.1	66.1	66.1
3-4 AM	91	0.0	OFF	91	0	0.00	0	66.2	66.2	66.2
4-5 AM	76	0.0	OFF	76	0	0.00	0	66.3	66.3	66.3
5-6 AM	129	0.0	OFF	129	0	0.00	0	66.1	66.1	66.1
6-7 AM	285	0.0	OFF	285	0	0.00	0	65.8	65.8	65.8
7-8 AM	358	0.0	OFF	358	0	0.00	0	65.7	65.7	65.7
8-9 AM	526	0.0	OFF	526	0	0.00	0	65.4	65.4	65.4
9-10 AM	836	0.0	1500	836	0	0.50	0	64.8	52.0	42.3
10-11 AM	1223	0.0	1499	1223	0	0.66	0	64.1	48.5	37.9
11AM-NOON	1496	0.0	1499	1496	0	1.18	5	63.6	40.6	31.3
NOON-1PM	1603	0.0	1500	1603	0	3.40	68	63.4	24.1	30.8
1-2 PM	1642	0.0	1500	1642	0	8.09	195	63.3	13.2	30.8
2-3 PM	1616	0.0	1499	1616	0	12.98	324	63.4	10.1	30.8
3-4 PM	1648	0.0	1499	1544	104	16.52+	418	63.3	9.1	30.8
4-5 PM	1559	0.0	1500	1500	59	16.74+	423	63.5	9.0	30.8
5-6 PM	1429	0.0	1499	1429	0	15.87+	400	63.7	9.2	30.8
6-7 PM	1236	0.0	1499	1236	0	9.23	238	64.1	12.5	32.0
7-8 PM	947	0.0	OFF	947	0	0.03	1	64.6	63.8	63.8
8-9 PM	749	0.0	OFF	749	0	0.00	0	65.0	65.0	65.0
9-10 PM	506	0.0	OFF	506	0	0.00	0	65.5	65.5	65.5
10-11 PM	379	0.0	OFF	379	0	0.00	0	65.7	65.7	65.7
11PM-MID	250	0.0	OFF	250	0	0.00	0	65.9	65.9	65.9

"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	0.0067
MAIN ROUTE WITH WORKS	0.0057
'DIVERSION'	0.0001

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$36,279
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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