

USH 41: IH 43 TO STH 29 (BROWN COUNTY) OFF-PEAK DAY 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	148	0.0	OFF	148	0	0.00	0	66.1	66.1	66.1	
1-2 AM	129	0.0	OFF	129	0	0.00	0	66.1	66.1	66.1	
2-3 AM	120	0.0	OFF	120	0	0.00	0	66.1	66.1	66.1	
3-4 AM	159	0.0	OFF	159	0	0.00	0	66.1	66.1	66.1	
4-5 AM	418	0.0	OFF	418	0	0.00	0	65.6	65.6	65.6	
5-6 AM	1161	0.0	OFF	1161	0	0.00	0	64.2	64.2	64.2	
6-7 AM	2438	0.0	OFF	2438	0	0.00	0	61.5	61.5	61.5	
7-8 AM	3043	0.0	OFF	3043	0	0.00	0	55.3	55.3	55.3	
8-9 AM	2197	0.0	OFF	2197	0	0.00	0	62.3	62.3	62.3	
9-10 AM	1885	0.0	OFF	1885	0	0.00	0	62.8	62.8	62.8	
10-11 AM	1883	0.0	1499	1883	0	6.88	188	62.8	14.7	30.8	
11AM-NOON	1982	0.0	1499	1508	475	16.89+	429	62.7	8.7	30.8	
NOON-1PM	2055	0.0	1500	1506	549	16.89+	429	62.5	8.7	30.8	
1-2 PM	2057	0.0	1500	1505	552	16.89+	429	62.5	8.7	30.8	
2-3 PM	2139	0.0	1500	1504	634	16.90+	429	62.4	8.7	30.8	
3-4 PM	2233	0.0	OFF	2233	0	0.79	46	62.2	44.1	44.1	
4-5 PM	2356	0.0	OFF	2356	0	0.00	0	62.0	62.0	62.0	
5-6 PM	2182	0.0	OFF	2182	0	0.00	0	62.3	62.3	62.3	
6-7 PM	1741	0.0	OFF	1741	0	0.00	0	63.2	63.2	63.2	
7-8 PM	1223	0.0	OFF	1223	0	0.00	0	64.1	64.1	64.1	
8-9 PM	891	0.0	OFF	891	0	0.00	0	64.7	64.7	64.7	
9-10 PM	755	0.0	OFF	755	0	0.00	0	65.0	65.0	65.0	
10-11 PM	532	0.0	OFF	532	0	0.00	0	65.4	65.4	65.4	
11PM-MID	383	0.0	OFF	383	0	0.00	0	65.7	65.7	65.7	

"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

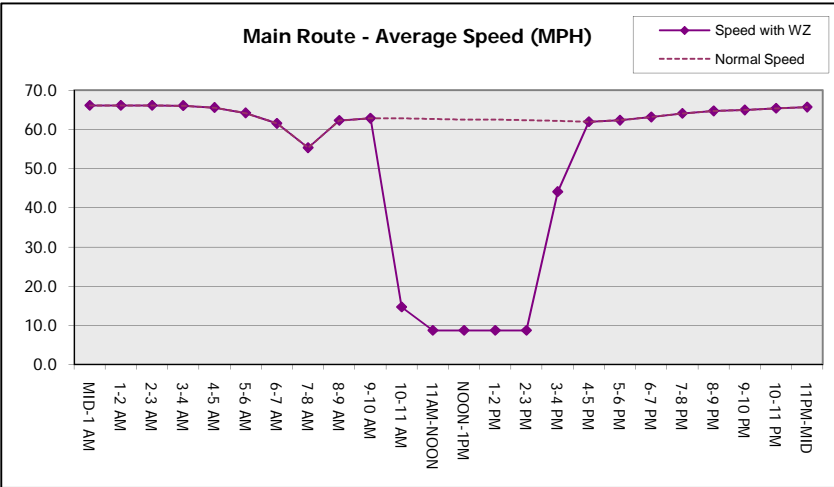
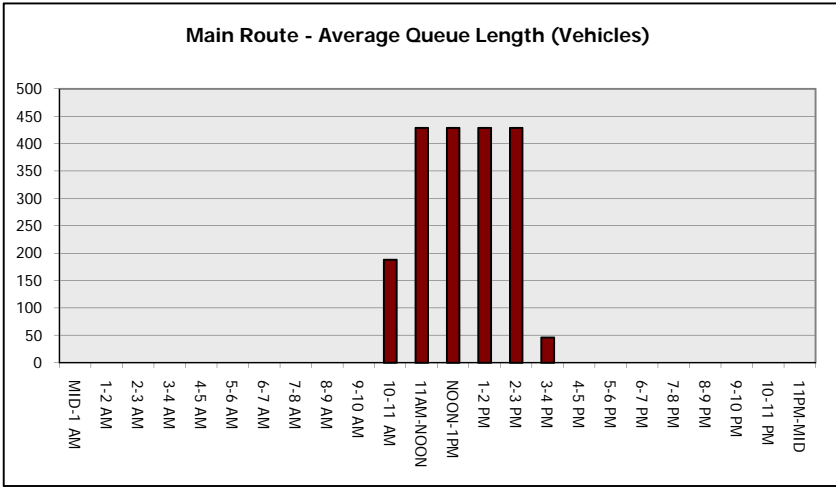
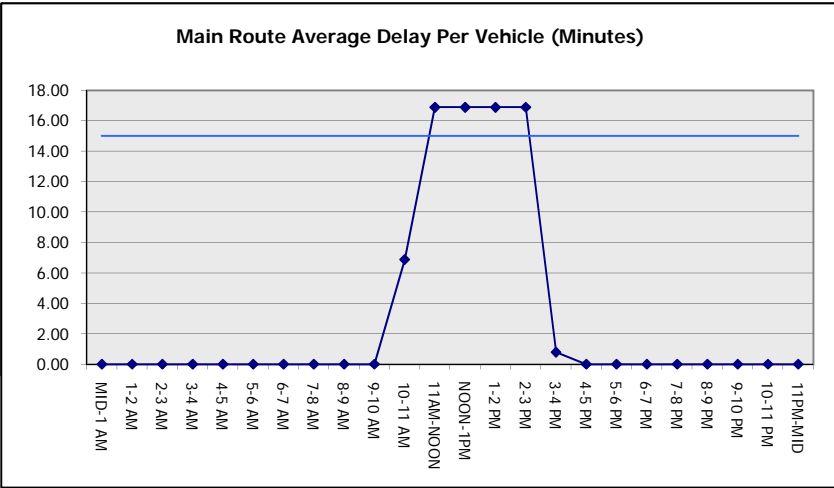
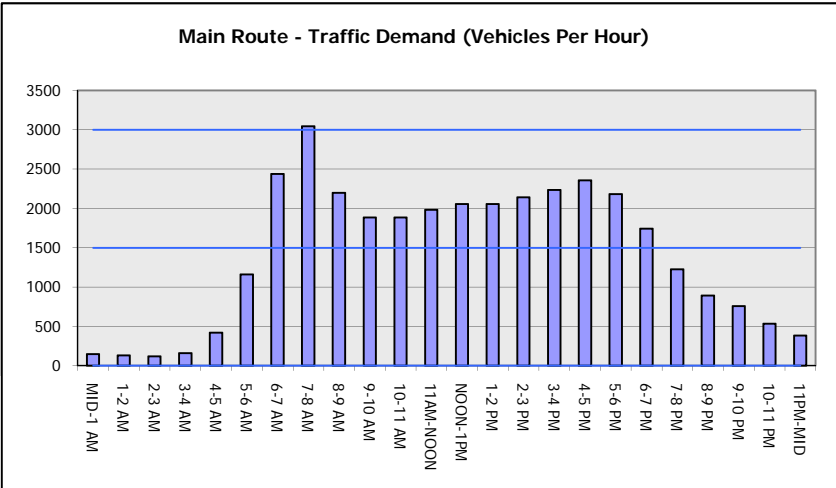
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0109
MAIN ROUTE WITH WORKS	0.0096
'DIVERSION'	0.0016
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$33,570
CONGESTED HOURS PER DAY*	4

*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	243	0.0	OFF	243	0	0.00	0	66.0	66.0	66.0
1-2 AM	163	0.0	OFF	163	0	0.00	0	66.1	66.1	66.1
2-3 AM	160	0.0	OFF	160	0	0.00	0	66.1	66.1	66.1
3-4 AM	149	0.0	OFF	149	0	0.00	0	66.1	66.1	66.1
4-5 AM	213	0.0	OFF	213	0	0.00	0	66.0	66.0	66.0
5-6 AM	564	0.0	OFF	564	0	0.00	0	65.3	65.3	65.3
6-7 AM	1196	0.0	OFF	1196	0	0.00	0	64.1	64.1	64.1
7-8 AM	1437	0.0	OFF	1437	0	0.00	0	63.7	63.7	63.7
8-9 AM	1438	0.0	OFF	1438	0	0.00	0	63.7	63.7	63.7
9-10 AM	1541	0.0	OFF	1541	0	0.00	0	63.5	63.5	63.5
10-11 AM	1760	0.0	1499	1760	0	4.55	117	63.1	18.9	30.8
11AM-NOON	1951	0.0	1500	1692	260	15.44+	393	62.7	9.1	30.8
NOON-1PM	2267	0.0	1499	1496	771	16.90+	429	62.2	8.7	30.8
1-2 PM	2430	0.0	1499	1497	933	16.89+	430	61.6	8.7	30.8
2-3 PM	2745	0.0	1499	1494	1251	16.93+	435	58.4	8.6	30.8
3-4 PM	3286	0.0	OFF	3286	0	2.23	134	52.8	26.6	26.6
4-5 PM	3615	0.0	OFF	3615	0	0.00	0	49.5	49.5	49.5
5-6 PM	2826	0.0	OFF	2826	0	0.00	0	57.6	57.6	57.6
6-7 PM	2375	0.0	OFF	2375	0	0.00	0	62.0	62.0	62.0
7-8 PM	1907	0.0	OFF	1907	0	0.00	0	62.8	62.8	62.8
8-9 PM	1604	0.0	OFF	1604	0	0.00	0	63.4	63.4	63.4
9-10 PM	1280	0.0	OFF	1280	0	0.00	0	64.0	64.0	64.0
10-11 PM	993	0.0	OFF	993	0	0.00	0	64.5	64.5	64.5
11PM-MID	632	0.0	OFF	632	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	0.0
(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	0
(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	0.0117
MAIN ROUTE WITH WORKS	0.0102
'DIVERSION'	0.0024

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$37,388
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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