

IH 43: STH 54/57 TO STH 172 (BROWN COUNTY) OFF-PEAK DAY 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	148	0.0	OFF	148	0	0.00	0	66.1	66.1	66.1	
1-2 AM	88	0.0	OFF	88	0	0.00	0	66.2	66.2	66.2	
2-3 AM	90	0.0	OFF	90	0	0.00	0	66.2	66.2	66.2	
3-4 AM	105	0.0	OFF	105	0	0.00	0	66.2	66.2	66.2	
4-5 AM	234	0.0	OFF	234	0	0.00	0	66.0	66.0	66.0	
5-6 AM	753	0.0	OFF	753	0	0.00	0	65.0	65.0	65.0	
6-7 AM	1557	0.0	OFF	1557	0	0.00	0	63.5	63.5	63.5	
7-8 AM	1947	0.0	OFF	1947	0	0.00	0	62.8	62.8	62.8	
8-9 AM	1485	0.0	OFF	1485	0	0.00	0	63.6	63.6	63.6	
9-10 AM	1362	0.0	OFF	1362	0	0.00	0	63.8	63.8	63.8	
10-11 AM	1554	0.0	1499	1554	0	1.63	17	63.5	47.4	30.8	
11AM-NOON	1666	0.0	1500	1666	0	5.61	130	63.3	29.3	30.8	
NOON-1PM	1743	0.0	1500	1687	57	13.02+	331	63.2	17.1	30.8	
1-2 PM	1724	0.0	1500	1500	224	15.82+	400	63.2	14.8	30.8	
2-3 PM	1808	0.0	1500	1500	308	15.81+	400	63.0	14.8	30.8	
3-4 PM	1873	0.0	OFF	1873	0	0.64	38	62.9	55.6	55.6	
4-5 PM	2101	0.0	OFF	2101	0	0.00	0	62.5	62.5	62.5	
5-6 PM	1855	0.0	OFF	1855	0	0.00	0	62.9	62.9	62.9	
6-7 PM	1429	0.0	OFF	1429	0	0.00	0	63.7	63.7	63.7	
7-8 PM	1027	0.0	OFF	1027	0	0.00	0	64.5	64.5	64.5	
8-9 PM	803	0.0	OFF	803	0	0.00	0	64.9	64.9	64.9	
9-10 PM	668	0.0	OFF	668	0	0.00	0	65.1	65.1	65.1	
10-11 PM	534	0.0	OFF	534	0	0.00	0	65.4	65.4	65.4	
11PM-MID	335	0.0	OFF	335	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

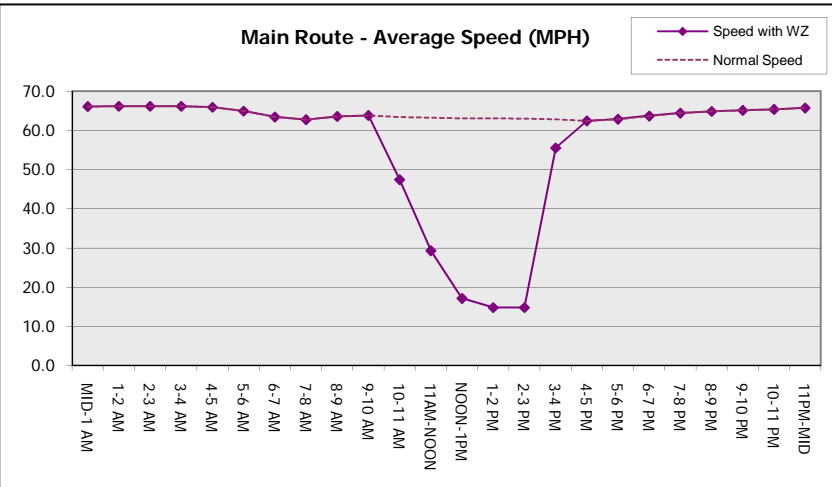
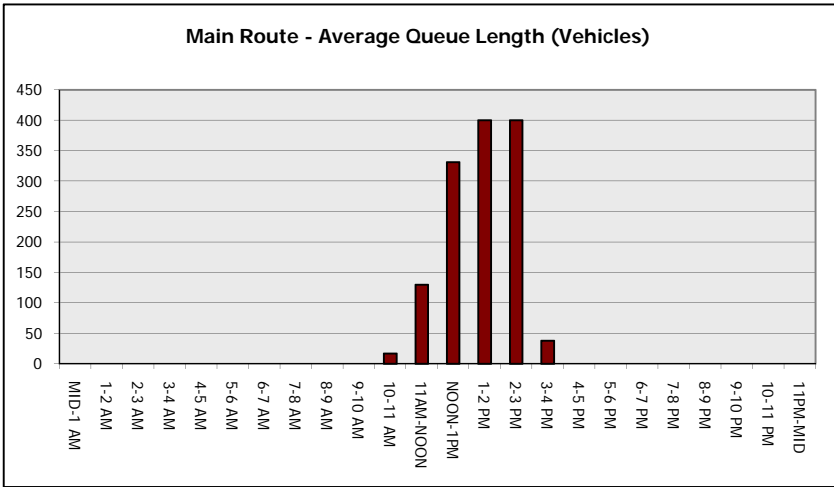
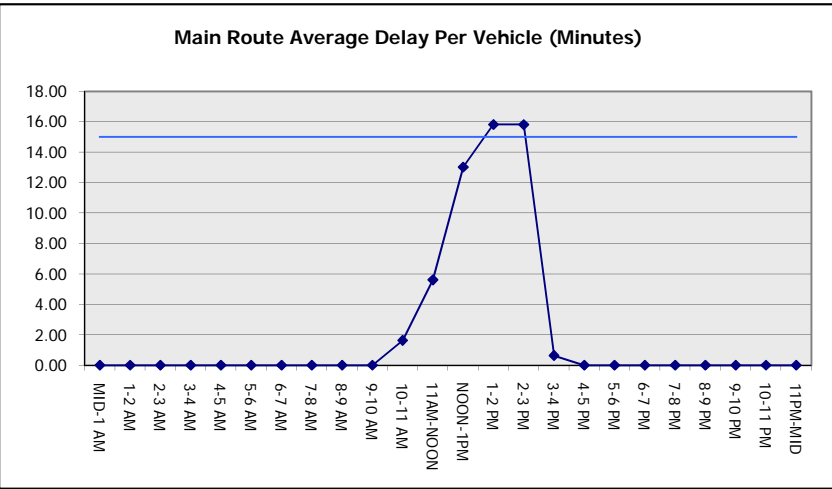
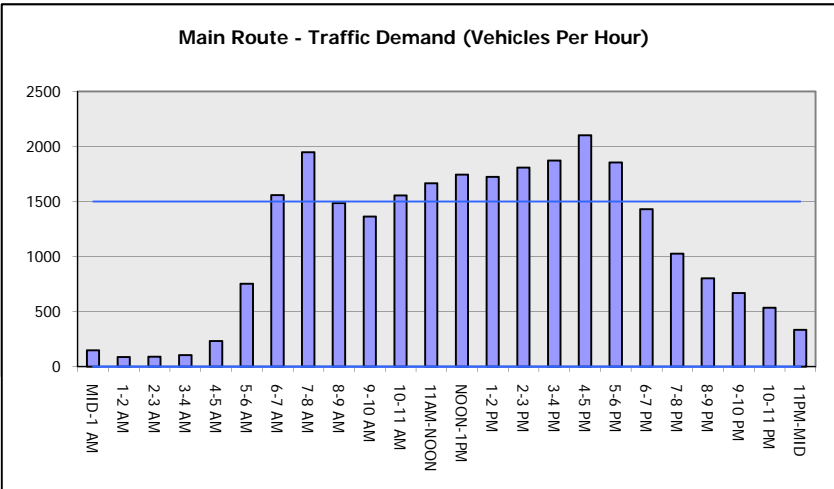
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0218
MAIN ROUTE WITH WORKS	0.0208
'DIVERSION'	0.0011
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$19,204
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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AUGUST
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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	239	0.0	OFF	239	0	0.00	0	66.0	66.0	66.0
1-2 AM	151	0.0	OFF	151	0	0.00	0	66.1	66.1	66.1
2-3 AM	119	0.0	OFF	119	0	0.00	0	66.1	66.1	66.1
3-4 AM	89	0.0	OFF	89	0	0.00	0	66.2	66.2	66.2
4-5 AM	158	0.0	OFF	158	0	0.00	0	66.1	66.1	66.1
5-6 AM	397	0.0	OFF	397	0	0.00	0	65.6	65.6	65.6
6-7 AM	883	0.0	OFF	883	0	0.00	0	64.8	64.8	64.8
7-8 AM	1293	0.0	OFF	1293	0	0.00	0	64.0	64.0	64.0
8-9 AM	1155	0.0	OFF	1155	0	0.00	0	64.2	64.2	64.2
9-10 AM	1260	0.0	OFF	1260	0	0.00	0	64.0	64.0	64.0
10-11 AM	1465	0.0	1499	1465	0	1.02	1	63.7	52.5	31.7
11AM-NOON	1620	0.0	1500	1620	0	2.97	56	63.3	39.2	30.8
NOON-1PM	1711	0.0	1500	1711	0	8.93	222	63.2	22.2	30.8
1-2 PM	1858	0.0	1499	1560	299	15.55+	393	62.9	15.0	30.8
2-3 PM	2073	0.0	1500	1500	573	15.77+	400	62.5	14.8	30.8
3-4 PM	2391	0.0	OFF	2391	0	1.06	48	61.9	50.9	50.9
4-5 PM	2832	0.0	OFF	2832	0	0.00	0	57.5	57.5	57.5
5-6 PM	2645	0.0	OFF	2645	0	0.00	0	59.4	59.4	59.4
6-7 PM	1888	0.0	OFF	1888	0	0.00	0	62.8	62.8	62.8
7-8 PM	1407	0.0	OFF	1407	0	0.00	0	63.8	63.8	63.8
8-9 PM	1174	0.0	OFF	1174	0	0.00	0	64.2	64.2	64.2
9-10 PM	993	0.0	OFF	993	0	0.00	0	64.5	64.5	64.5
10-11 PM	756	0.0	OFF	756	0	0.00	0	65.0	65.0	65.0
11PM-MID	538	0.0	OFF	538	0	0.00	0	65.4	65.4	65.4

"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	0.0236
MAIN ROUTE WITH WORKS	0.0224
'DIVERSION'	0.0016

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$17,962
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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