

IH 43: STH 54/57 TO STH 172 (BROWN COUNTY) CONTINUOUS (24 HOUR) 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	1500	148	0	0.44	0	66.1	60.4	44.9	
1-2 AM	88	0.0	1500	88	0	0.43	0	66.2	60.5	45.1	
2-3 AM	90	0.0	1500	90	0	0.43	0	66.2	60.5	45.1	
3-4 AM	105	0.0	1500	105	0	0.43	0	66.2	60.5	45.1	
4-5 AM	234	0.0	1500	234	0	0.45	0	66.0	60.2	44.5	
5-6 AM	753	0.0	1500	753	0	0.50	0	65.0	58.8	42.5	
6-7 AM	1557	0.0	1499	1557	0	1.75	25	63.5	46.5	31.8	
7-8 AM	1947	0.0	1500	1769	178	11.49+	303	62.8	18.7	30.8	
8-9 AM	1485	0.0	1500	1485	0	15.21+	382	63.6	15.3	30.8	
9-10 AM	1362	0.0	1499	1362	0	11.51	285	63.8	18.8	30.8	
10-11 AM	1554	0.0	1500	1554	0	9.76	236	63.5	21.0	30.8	
11AM-NOON	1666	0.0	1500	1640	26	13.71+	346	63.3	16.5	30.8	
NOON-1PM	1743	0.0	1500	1500	243	15.82+	400	63.2	14.8	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	1500	1500	373	15.80+	400	62.9	14.8	30.8	
4-5 PM	2101	0.0	1500	1500	601	15.77+	400	62.5	14.8	30.8	
5-6 PM	1855	0.0	1500	1500	355	15.80+	400	62.9	14.8	30.8	
6-7 PM	1429	0.0	1499	1395	34	14.83+	373	63.7	15.6	30.8	
7-8 PM	1027	0.0	1499	1027	0	3.39	115	64.5	37.6	37.8	
8-9 PM	803	0.0	1500	803	0	0.50	0	64.9	58.7	42.4	
9-10 PM	668	0.0	1500	668	0	0.49	0	65.1	59.0	42.8	
10-11 PM	534	0.0	1500	534	0	0.47	0	65.4	59.4	43.4	
11PM-MID	335	0.0	1500	335	0	0.45	0	65.8	59.9	44.2	

+ 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

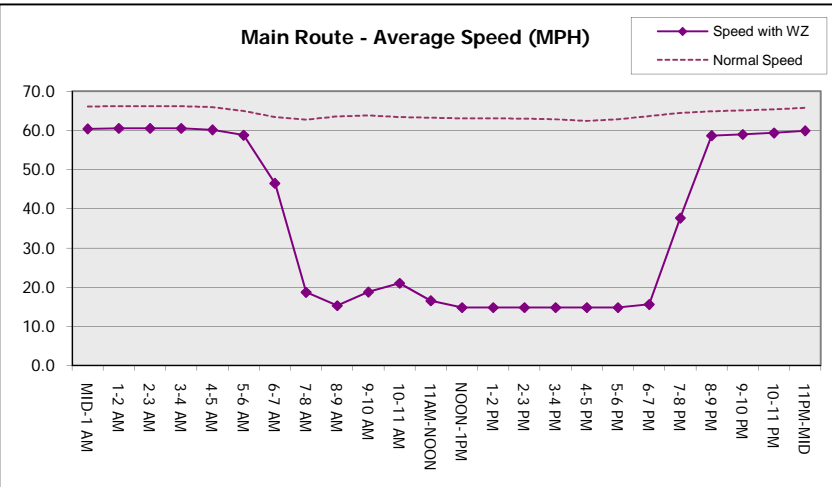
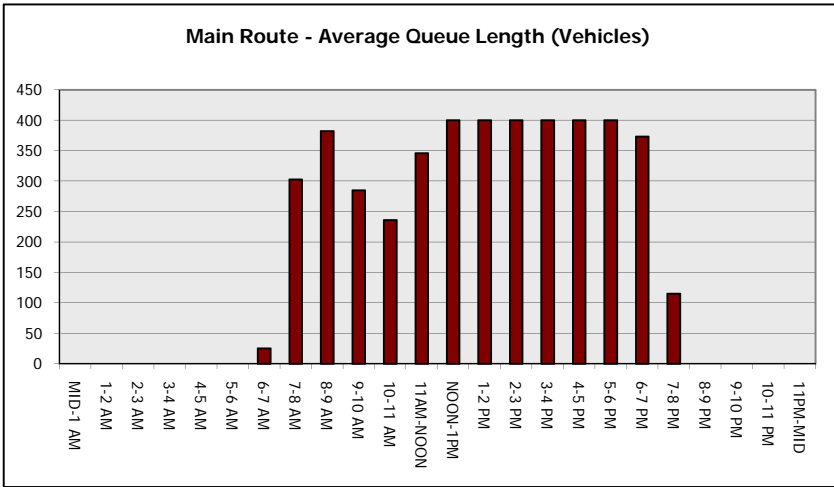
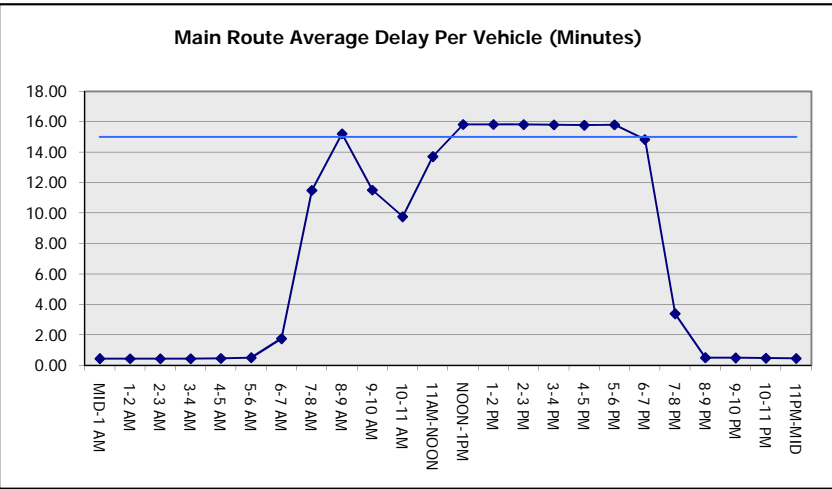
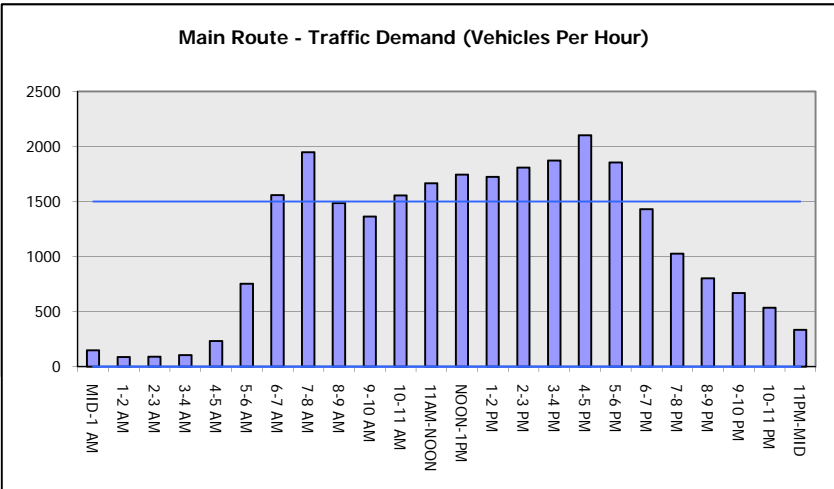
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0218
MAIN ROUTE WITH WORKS	0.0183
'DIVERSION'	0.0044
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$68,796
CONGESTED HOURS PER DAY*	10

*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	239	0.0	1500	239	0	0.45	0	66.0	60.2	44.5
1-2 AM	151	0.0	1500	151	0	0.44	0	66.1	60.4	44.9
2-3 AM	119	0.0	1500	119	0	0.43	0	66.1	60.5	45.0
3-4 AM	89	0.0	1500	89	0	0.43	0	66.2	60.5	45.1
4-5 AM	158	0.0	1500	158	0	0.44	0	66.1	60.4	44.8
5-6 AM	397	0.0	1500	397	0	0.46	0	65.6	59.7	43.9
6-7 AM	883	0.0	1500	883	0	0.51	0	64.8	58.4	42.1
7-8 AM	1293	0.0	1500	1293	0	0.76	0	64.0	55.2	35.7
8-9 AM	1155	0.0	1500	1155	0	0.58	0	64.2	57.3	39.9
9-10 AM	1260	0.0	1499	1260	0	0.71	0	64.0	55.7	36.6
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	1500	1500	891	15.72+	400	61.9	14.8	30.8
4-5 PM	2832	0.0	1500	1500	1332	15.34+	400	57.5	14.8	30.8
5-6 PM	2645	0.0	1500	1500	1145	15.51+	400	59.4	14.8	30.8
6-7 PM	1888	0.0	1500	1500	388	15.80+	400	62.8	14.8	30.8
7-8 PM	1407	0.0	1500	1407	0	14.72+	370	63.8	15.6	30.8
8-9 PM	1174	0.0	1499	1174	0	5.33	152	64.2	30.3	34.2
9-10 PM	993	0.0	1500	993	0	0.52	0	64.5	58.2	41.7
10-11 PM	756	0.0	1500	756	0	0.50	0	65.0	58.8	42.5
11PM-MID	538	0.0	1500	538	0	0.47	0	65.4	59.4	43.3

+ 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	0.0182
'DIVERSION'	0.0087

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$60,488
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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