

**STH 172: USH 41 TO STH 57 (BROWN COUNTY)
NIGHTTIME 2 LANE CLOSURE
DIVERSION ROUTE: STH 32 - STH 57**

OCTOBER

Analyzed for 2009
Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY WESTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH								
	MAIN ROUTE		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	281	0.0	80	0.0	1500	281	0	80	0.36	0	60.2	49.6	44.3	22.4	22.4
1-2 AM	166	0.0	47	0.0	1500	166	0	47	0.35	0	60.2	49.9	44.8	22.9	22.9
2-3 AM	143	0.0	41	0.0	1500	143	0	41	0.35	0	60.2	50.1	44.9	23.0	23.0
3-4 AM	127	0.0	36	0.0	1500	127	0	36	0.34	0	60.2	50.1	45.0	23.1	23.1
4-5 AM	224	0.0	63	0.0	1500	224	0	63	0.36	0	60.2	49.8	44.6	22.7	22.7
5-6 AM	422	0.0	119	0.0	1500	422	0	119	0.38	0	60.2	49.2	43.8	21.9	21.9
6-7 AM	731	0.0	206	0.0	1500	731	0	206	0.42	0	60.2	48.3	42.7	20.6	20.6
7-8 AM	1101	0.0	311	0.0	1499	1101	0	311	0.52	0	60.2	46.0	39.7	19.1	19.1
8-9 AM	1689	0.0	477	0.0	OFF	1689	0	477	0.00	0	60.2	60.2	60.2	16.6	16.6
9-10 AM	2016	0.0	569	0.0	OFF	2016	0	569	0.00	0	60.2	60.2	60.2	15.3	15.3
10-11 AM	2183	0.0	616	0.0	OFF	2183	0	616	0.00	0	60.2	60.2	60.2	14.6	14.6
11A-NOON	2371	0.0	670	0.0	OFF	2371	0	670	0.00	0	60.2	60.2	60.2	13.8	13.8
NOON-1PM	2397	0.0	677	0.0	OFF	2397	0	677	0.00	0	60.2	60.2	60.2	13.7	13.7
1-2 PM	2261	0.0	638	0.0	OFF	2261	0	638	0.00	0	60.2	60.2	60.2	14.3	14.3
2-3 PM	2196	0.0	621	0.0	OFF	2196	0	621	0.00	0	60.2	60.2	60.2	14.5	14.5
3-4 PM	2118	0.0	599	0.0	OFF	2118	0	599	0.00	0	60.2	60.2	60.2	14.9	14.9
4-5 PM	2108	0.0	595	0.0	OFF	2108	0	595	0.00	0	60.2	60.2	60.2	14.9	14.9
5-6 PM	2062	0.0	582	0.0	OFF	2062	0	582	0.00	0	60.2	60.2	60.2	15.2	15.2
6-7 PM	1886	0.0	533	0.0	1499	1886	0	533	7.99	213	60.2	11.3	30.8	15.8	16.1
7-8 PM	1416	0.0	400	0.0	1499	1416	0	400	14.86	367	60.2	7.5	30.8	17.8	18.5
8-9 PM	1161	0.0	328	0.0	1499	1161	0	328	4.38	149	60.2	17.3	34.7	18.8	18.9
9-10 PM	936	0.0	265	0.0	1500	936	0	265	0.44	0	60.2	47.8	41.9	19.7	19.7
10-11 PM	668	0.0	188	0.0	1500	668	0	188	0.41	0	60.2	48.5	42.8	20.9	20.9
11PM-MID	461	0.0	130	0.0	1500	461	0	130	0.39	0	60.2	49.1	43.7	21.7	21.7

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0084
MAIN ROUTE WITH WORKS	0.0078
DIVERSION	0.0634

PIA: Personal Injury Accidents

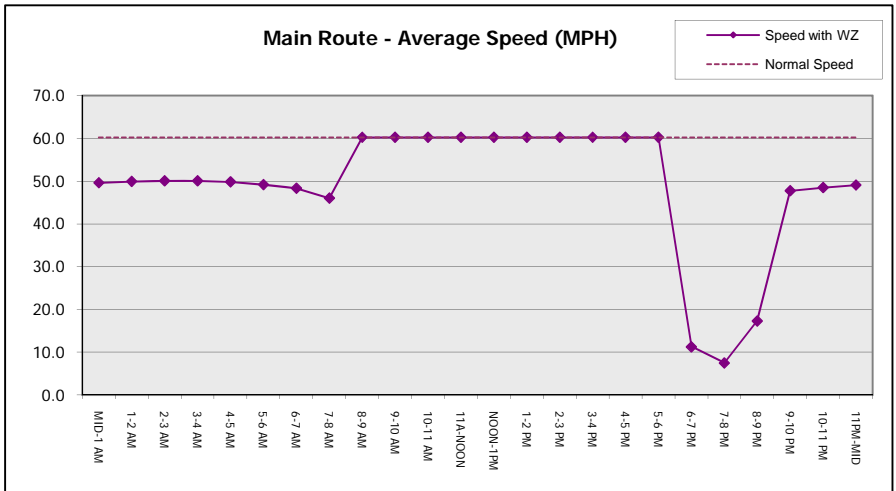
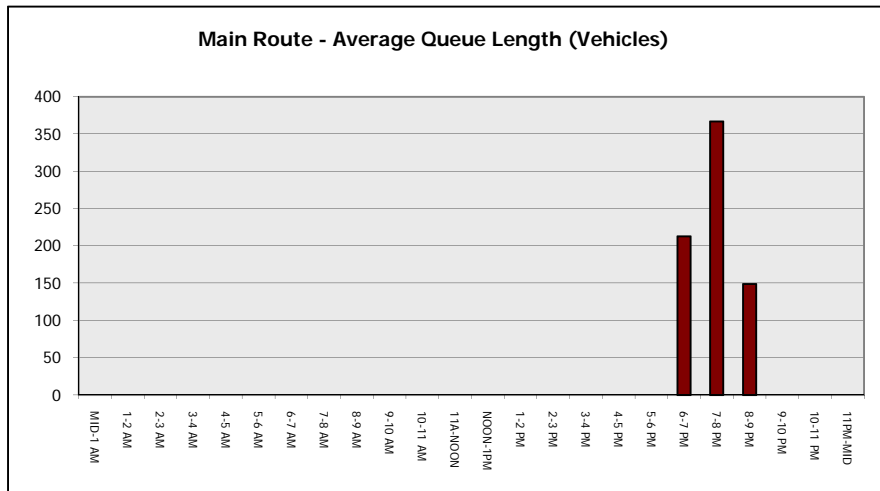
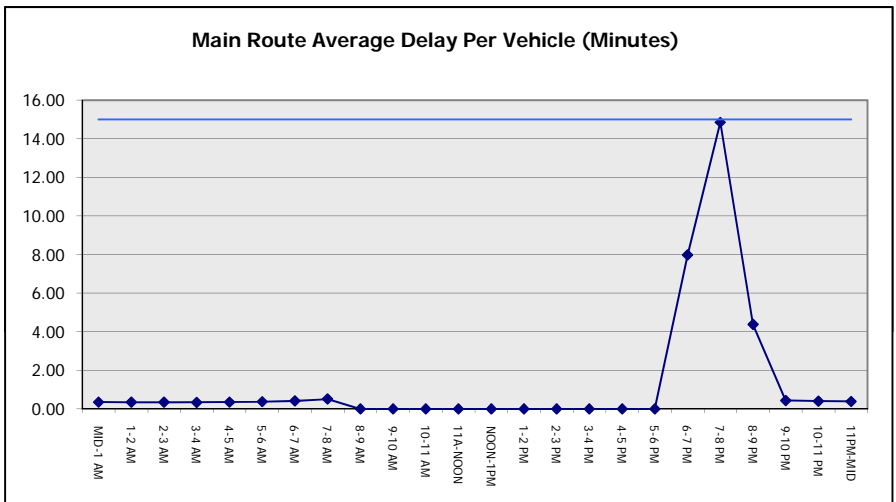
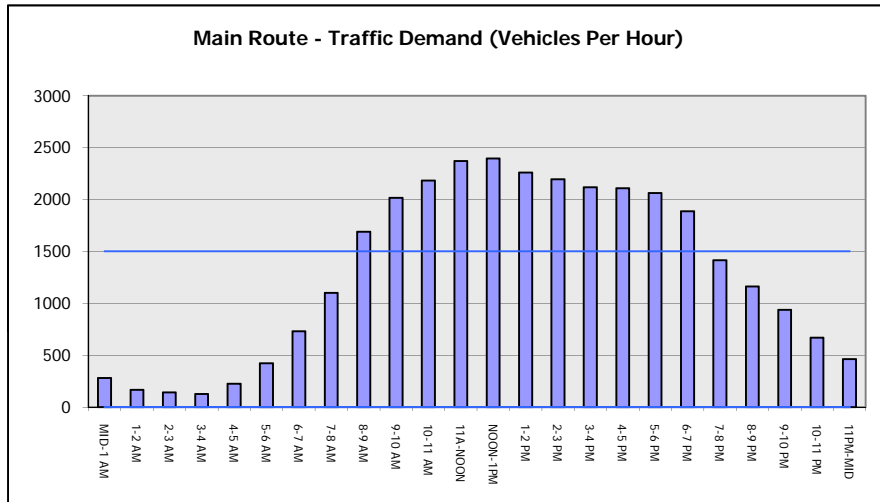
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$12,557
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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DIVERSION ROUTE: STH 32 - STH 57

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY WESTBOUND DIRECTION



STH 172: USH 41 TO STH 57 (BROWN COUNTY) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: STH 32 - STH 57	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	459	0.0	130	0.0	1500	459	0	130	0.38	0	60.2	49.1	43.7	19.7	19.7
1-2 AM	248	0.0	70	0.0	1500	248	0	70	0.36	0	60.2	49.7	44.5	21.5	21.5
2-3 AM	236	0.0	67	0.0	1500	236	0	67	0.36	0	60.2	49.7	44.5	21.6	21.6
3-4 AM	327	0.0	92	0.0	1500	327	0	92	0.37	0	60.2	49.5	44.2	20.9	20.9
4-5 AM	323	0.0	91	0.0	1500	323	0	91	0.37	0	60.2	49.5	44.2	20.9	20.9
5-6 AM	392	0.0	111	0.0	1500	392	0	111	0.38	0	60.2	49.3	43.9	20.3	20.3
6-7 AM	465	0.0	131	0.0	1500	465	0	131	0.39	0	60.2	49.1	43.7	19.7	19.7
7-8 AM	658	0.0	186	0.0	1500	658	0	186	0.41	0	60.2	48.5	42.9	18.1	18.1
8-9 AM	1094	0.0	309	0.0	OFF	1094	0	309	0.00	0	60.2	60.2	60.2	14.5	14.5
9-10 AM	1296	0.0	366	0.0	OFF	1296	0	366	0.00	0	60.2	60.2	60.2	12.8	12.8
10-11 AM	2011	0.0	568	0.0	OFF	2011	0	568	0.00	0	60.2	60.2	60.2	9.8	9.8
11A-NOON	2171	0.0	613	0.0	OFF	2171	0	613	0.00	0	60.2	60.2	60.2	9.3	9.3
NOON-1PM	2067	0.0	584	0.0	OFF	2067	0	584	0.00	0	60.2	60.2	60.2	9.7	9.7
1-2 PM	1986	0.0	561	0.0	OFF	1986	0	561	0.00	0	60.2	60.2	60.2	9.9	9.9
2-3 PM	2039	0.0	576	0.0	OFF	2039	0	576	0.00	0	60.2	60.2	60.2	9.7	9.7
3-4 PM	2026	0.0	572	0.0	OFF	2026	0	572	0.00	0	60.2	60.2	60.2	9.8	9.8
4-5 PM	1991	0.0	562	0.0	OFF	1991	0	562	0.00	0	60.2	60.2	60.2	9.9	9.9
5-6 PM	1951	0.0	551	0.0	OFF	1951	0	551	0.00	0	60.2	60.2	60.2	10.1	10.1
6-7 PM	1928	0.0	544	0.0	1499	1928	0	544	8.45	229	60.2	10.9	30.8	10.1	10.4
7-8 PM	1457	0.0	411	0.0	1499	1457	0	411	17.17	427	60.2	7.0	30.8	11.7	12.5
8-9 PM	1251	0.0	354	0.0	1499	1251	0	354	10.69	267	60.2	9.1	31.2	13.2	13.5
9-10 PM	1214	0.0	343	0.0	1500	1214	0	343	1.46	38	60.2	32.3	36.5	13.5	13.5
10-11 PM	878	0.0	248	0.0	1500	878	0	248	0.44	0	60.2	47.9	42.1	16.3	16.3
11PM-MID	803	0.0	227	0.0	1500	803	0	227	0.43	0	60.2	48.1	42.4	16.9	16.9

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0079
MAIN ROUTE WITH WORKS	0.0072
DIVERSION	0.0597

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$16,877
CONGESTED HOURS PER DAY*	1

*Delays Exceeding 15 Minutes

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SATURDAY EASTBOUND DIRECTION

