

**IH 94: STH 181 TO USH 41 (MILWAUKEE COUNTY)
NIGHTTIME 2 LANE CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

AUGUST
Analyzed for 2009
Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT
FRIDAY WESTBOUND 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	987	0.0	1500	987	0	3.74	160	69.5	24.8	36.6	
1-2 AM	707	0.0	1500	707	0	0.56	0	69.9	55.0	42.7	
2-3 AM	535	0.0	1500	535	0	0.54	0	70.0	55.5	43.3	
3-4 AM	460	0.0	1500	460	0	0.53	0	70.2	55.8	43.7	
4-5 AM	727	0.0	1500	727	0	0.56	0	69.8	55.0	42.7	
5-6 AM	2142	0.0	OFF	2142	0	0.00	0	68.1	68.1	68.1	
6-7 AM	4497	0.0	OFF	4497	0	0.00	0	60.1	60.1	60.1	
7-8 AM	5182	0.0	OFF	5182	0	0.00	0	55.5	55.5	55.5	
8-9 AM	5072	0.0	OFF	5072	0	0.00	0	56.2	56.2	56.2	
9-10 AM	4324	0.0	OFF	4324	0	0.00	0	61.3	61.3	61.3	
10-11 AM	4408	0.0	OFF	4408	0	0.00	0	60.7	60.7	60.7	
11AM-NOON	4891	0.0	OFF	4891	0	0.00	0	57.4	57.4	57.4	
NOON-1PM	5197	0.0	OFF	5197	0	0.00	0	55.3	55.3	55.3	
1-2 PM	5282	0.0	OFF	5282	0	0.00	0	54.8	54.8	54.8	
2-3 PM	5846	0.0	OFF	5846	0	0.00	0	50.9	50.9	50.9	
3-4 PM	5787	0.0	OFF	5787	0	0.00	0	51.3	51.3	51.3	
4-5 PM	5199	0.0	OFF	5199	0	0.00	0	55.3	55.3	55.3	
5-6 PM	4635	0.0	OFF	4635	0	0.00	0	59.2	59.2	59.2	
6-7 PM	3712	0.0	OFF	3712	0	0.00	0	65.5	65.5	65.5	
7-8 PM	3167	0.0	1499	1560	1608	16.79+	419	66.8	8.1	36.6	
8-9 PM	2742	0.0	1499	1756	986	13.87+	360	67.3	9.3	35.1	
9-10 PM	4150	0.0	1499	1501	2650	16.36+	408	62.5	8.1	32.5	
10-11 PM	4118	0.0	1500	1501	2617	16.37+	408	62.7	8.1	32.5	
11PM-MID	2858	0.0	1500	1511	1346	16.51+	406	67.2	8.1	31.9	

"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

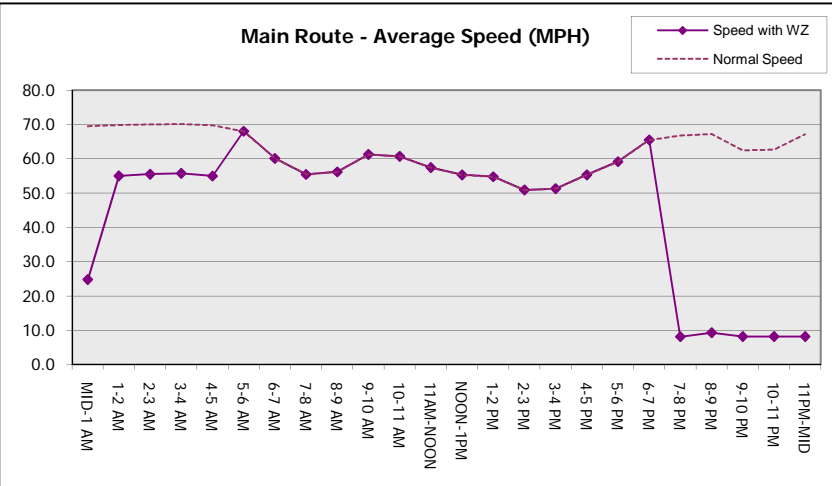
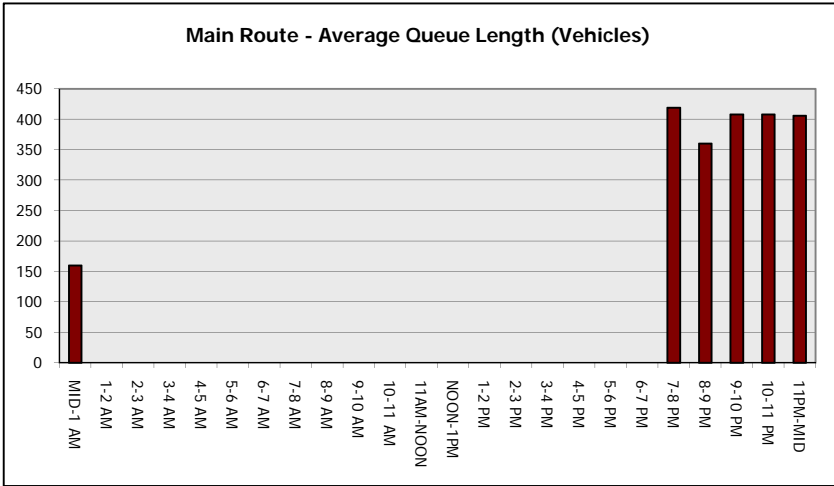
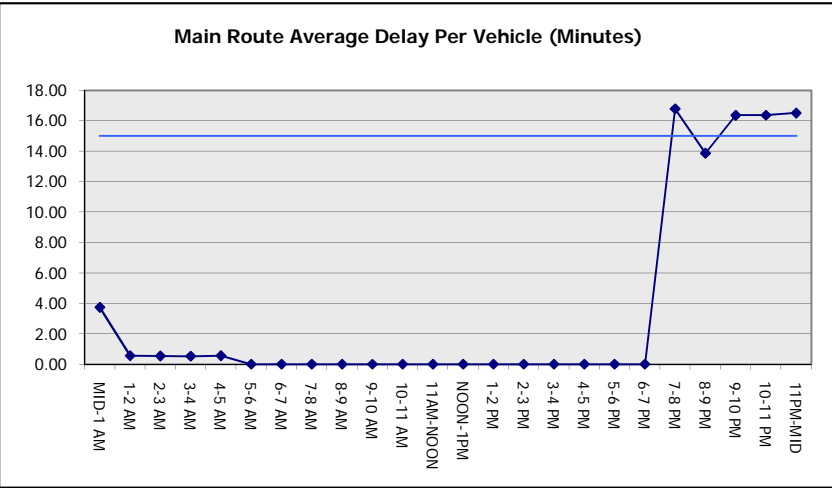
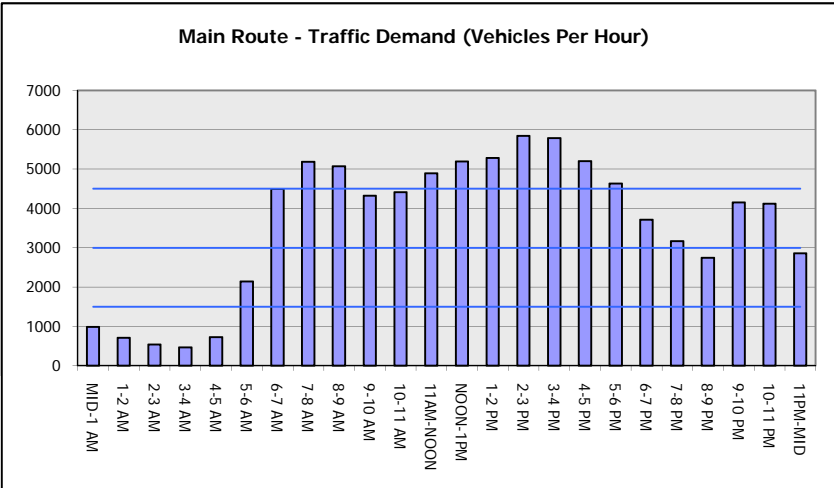
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0331
MAIN ROUTE WITH WORKS	0.0288
'DIVERSION'	0.0081
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$66,023
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



IH 94: STH 181 TO USH 41 (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY EASTBOUND 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	1042	0.0	1500	1042	0	4.90	194	69.4	20.6	36.3
1-2 AM	529	0.0	1500	529	0	0.54	0	70.0	55.6	43.4
2-3 AM	429	0.0	1500	429	0	0.53	0	70.2	55.9	43.8
3-4 AM	362	0.0	1500	362	0	0.52	0	70.2	56.0	44.0
4-5 AM	628	0.0	1500	628	0	0.55	0	69.9	55.3	43.0
5-6 AM	2520	0.0	OFF	2520	0	0.00	0	67.6	67.6	67.6
6-7 AM	5050	0.0	OFF	5050	0	0.00	0	56.3	56.3	56.3
7-8 AM	5399	0.0	OFF	5399	0	0.00	0	54.0	54.0	54.0
8-9 AM	4918	0.0	OFF	4918	0	0.00	0	57.3	57.3	57.3
9-10 AM	4198	0.0	OFF	4198	0	0.00	0	62.2	62.2	62.2
10-11 AM	4127	0.0	OFF	4127	0	0.00	0	62.7	62.7	62.7
11AM-NOON	4499	0.0	OFF	4499	0	0.00	0	60.1	60.1	60.1
NOON-1PM	4465	0.0	OFF	4465	0	0.00	0	60.4	60.4	60.4
1-2 PM	4769	0.0	OFF	4769	0	0.00	0	58.2	58.2	58.2
2-3 PM	5266	0.0	OFF	5266	0	0.00	0	54.9	54.9	54.9
3-4 PM	5540	0.0	OFF	5540	0	0.00	0	53.0	53.0	53.0
4-5 PM	5742	0.0	OFF	5742	0	0.00	0	51.6	51.6	51.6
5-6 PM	5745	0.0	OFF	5745	0	0.00	0	51.6	51.6	51.6
6-7 PM	5337	0.0	OFF	5337	0	0.00	0	54.4	54.4	54.4
7-8 PM	3833	0.0	1499	1560	2273	16.73+	420	64.6	8.1	36.6
8-9 PM	3391	0.0	1499	1680	1711	14.60+	383	66.5	9.0	35.6
9-10 PM	3495	0.0	1499	1517	1978	16.24+	406	66.4	8.3	37.1
10-11 PM	3184	0.0	1500	1519	1665	16.30+	406	66.8	8.2	35.8
11PM-MID	2489	0.0	1500	1578	911	16.24+	399	67.6	8.2	31.7

"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	0.0332
MAIN ROUTE WITH WORKS	0.0292
'DIVERSION'	0.0075

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$63,688
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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FRIDAY EASTBOUND DIRECTION

