

<b>IH 94: MN 96 TO STH 35 N                  NIGHTTIME 2 LANE CLOSURE                  NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	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	800	0.0	1499	800	0	23.79	631	69.7	4.8	32.7	
1-2 AM	665	0.0	1500	665	0	0.66	41	69.9	39.9	42.7	
2-3 AM	692	0.0	1500	692	0	0.28	0	69.9	52.7	42.8	
3-4 AM	805	0.0	1500	805	0	0.29	0	69.7	52.3	42.4	
4-5 AM	1339	0.0	1499	1339	0	0.46	0	69.1	45.2	35.0	
5-6 AM	2132	0.0	OFF	2132	0	0.00	0	68.1	68.1	68.1	
6-7 AM	2488	0.0	OFF	2488	0	0.00	0	67.6	67.6	67.6	
7-8 AM	2658	0.0	OFF	2658	0	0.00	0	67.4	67.4	67.4	
8-9 AM	2590	0.0	OFF	2590	0	0.00	0	67.5	67.5	67.5	
9-10 AM	2810	0.0	OFF	2810	0	0.00	0	67.3	67.3	67.3	
10-11 AM	3272	0.0	OFF	3272	0	0.00	0	66.7	66.7	66.7	
11AM-NOON	3603	0.0	OFF	3603	0	0.00	0	66.3	66.3	66.3	
NOON-1PM	3744	0.0	OFF	3744	0	0.00	0	65.3	65.3	65.3	
1-2 PM	4336	0.0	OFF	4336	0	0.00	0	61.2	61.2	61.2	
2-3 PM	4613	0.0	OFF	4613	0	0.00	0	59.4	59.4	59.4	
3-4 PM	4621	0.0	OFF	4621	0	0.00	0	59.3	59.3	59.3	
4-5 PM	4427	0.0	OFF	4427	0	0.00	0	60.6	60.6	60.6	
5-6 PM	4246	0.0	OFF	4246	0	0.00	0	61.9	61.9	61.9	
6-7 PM	3913	0.0	OFF	3913	0	0.00	0	64.1	64.1	64.1	
7-8 PM	3274	0.0	1499	2947	327	30.73+	841	66.7	4.5	30.8	
8-9 PM	2744	0.0	1499	1404	1340	47.36+	1227	67.3	3.9	30.8	
9-10 PM	2573	0.0	1499	1416	1157	47.29+	1225	67.6	3.9	30.8	
10-11 PM	1931	0.0	1499	1488	443	46.45+	1202	68.3	4.0	30.8	
11PM-MID	1277	0.0	1499	1207	70	43.56+	1126	69.1	4.0	30.8	

"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	0.0104
MAIN ROUTE WITH WORKS	0.0085
'DIVERSION'	0.0012
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$120,754
CONGESTED HOURS PER DAY*	5

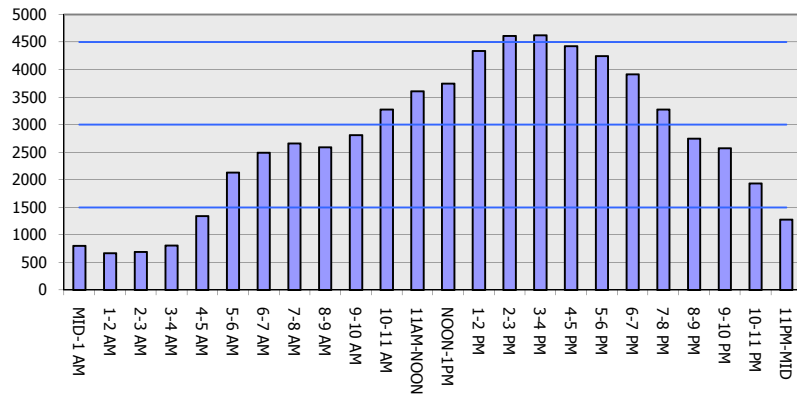
\*Delays Exceeding User-Specified Maximum

**IH 94: MN 96 TO STH 35 N  
NIGHTTIME 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

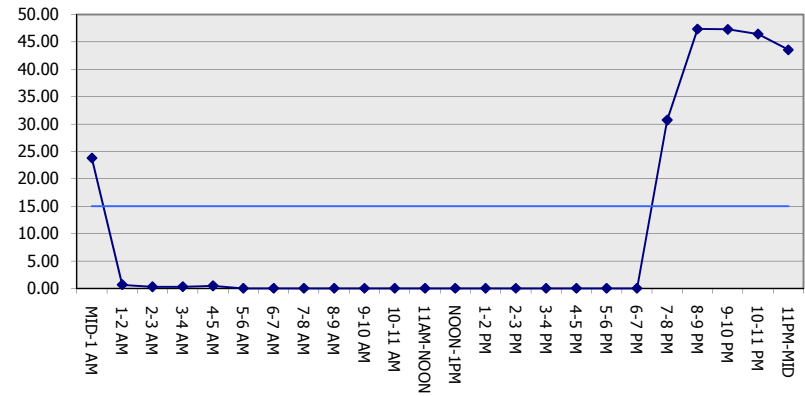
**AUGUST**  
Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY WESTBOUND DIRECTION**

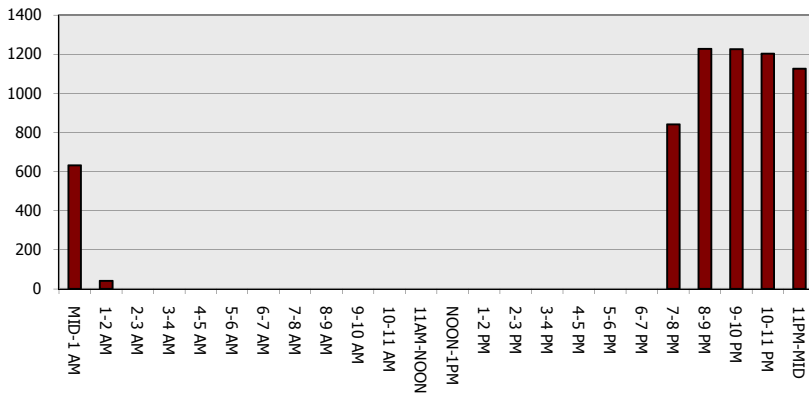
**Main Route - Traffic Demand (Vehicles Per Hour)**



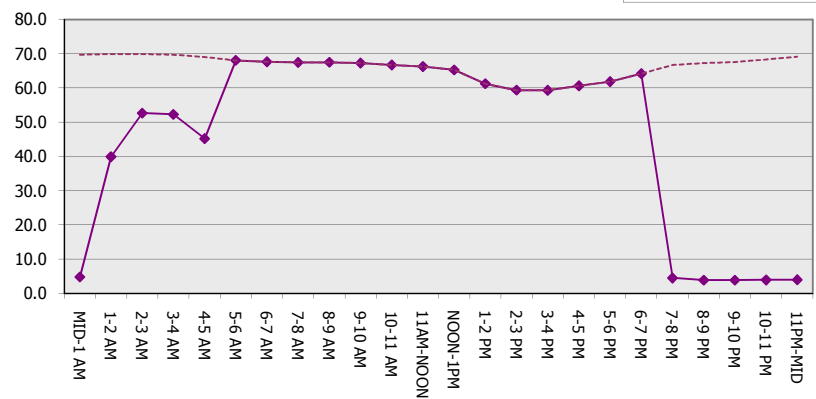
**Main Route Average Delay Per Vehicle (Minutes)**



**Main Route - Average Queue Length (Vehicles)**



**Main Route - Average Speed (MPH)**



<b>IH 94: MN 96 TO STH 35 N NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b> Analyzed for 2009 Construction Season
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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	899	0.0	1499	899	0	26.53	691	69.6	4.7	31.0
1-2 AM	584	0.0	1500	584	0	0.93	78	70.0	34.9	42.8
2-3 AM	512	0.0	1500	512	0	0.27	0	70.1	53.3	43.5
3-4 AM	511	0.0	1500	511	0	0.27	0	70.1	53.3	43.5
4-5 AM	644	0.0	1500	644	0	0.28	0	69.9	52.8	43.0
5-6 AM	1086	0.0	OFF	1086	0	0.00	0	69.4	69.4	69.4
6-7 AM	1812	0.0	OFF	1812	0	0.00	0	68.5	68.5	68.5
7-8 AM	2659	0.0	OFF	2659	0	0.00	0	67.4	67.4	67.4
8-9 AM	3171	0.0	OFF	3171	0	0.00	0	66.8	66.8	66.8
9-10 AM	4051	0.0	OFF	4051	0	0.00	0	63.2	63.2	63.2
10-11 AM	4982	0.0	OFF	4982	0	0.00	0	56.8	56.8	56.8
11AM-NOON	5053	0.0	OFF	5053	0	0.00	0	56.3	56.3	56.3
NOON-1PM	5048	0.0	OFF	5048	0	0.00	0	56.4	56.4	56.4
1-2 PM	5837	0.0	OFF	5837	0	0.00	0	51.0	51.0	51.0
2-3 PM	6056	0.0	OFF	6056	0	0.00	0	49.5	49.5	49.5
3-4 PM	5869	0.0	OFF	5869	0	0.00	0	50.7	50.7	50.7
4-5 PM	5948	0.0	OFF	5948	0	0.00	0	50.2	50.2	50.2
5-6 PM	5707	0.0	OFF	5707	0	0.00	0	51.9	51.9	51.9
6-7 PM	5447	0.0	OFF	5447	0	0.00	0	53.7	53.7	53.7
7-8 PM	3914	0.0	1499	2627	1287	36.55+	969	64.1	4.2	30.8
8-9 PM	2759	0.0	1499	1524	1235	46.95+	1216	67.3	4.0	30.8
9-10 PM	2041	0.0	1499	1502	539	46.47+	1202	68.2	4.0	30.8
10-11 PM	1741	0.0	1499	1503	238	46.40+	1200	68.6	4.0	30.8
11PM-MID	1313	0.0	1499	1313	0	42.14+	1088	69.1	4.0	30.8

"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	0.0124
MAIN ROUTE WITH WORKS	0.0106
'DIVERSION'	0.0012

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$123,160
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

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NIGHTTIME 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**  
Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY EASTBOUND DIRECTION**

