

<b>IH 94: MN 96 TO STH 35 N                  CONTINUOUS (24 HOUR) CLOSURE                  NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</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	733	0.0	3000	733	0	0.18	0	69.8	57.8	49.7	
1-2 AM	633	0.0	3000	633	0	0.18	0	69.9	57.8	49.7	
2-3 AM	693	0.0	3000	693	0	0.18	0	69.9	57.8	49.7	
3-4 AM	803	0.0	3000	803	0	0.18	0	69.7	57.8	49.7	
4-5 AM	1215	0.0	3000	1215	0	0.18	0	69.2	57.6	49.7	
5-6 AM	2181	0.0	3000	2181	0	0.17	0	68.0	57.1	49.7	
6-7 AM	2540	0.0	3000	2540	0	0.22	0	67.6	54.3	45.9	
7-8 AM	2748	0.0	3000	2748	0	0.29	0	67.3	51.0	41.5	
8-9 AM	2557	0.0	3000	2557	0	0.22	0	67.6	54.0	45.5	
9-10 AM	2660	0.0	2999	2660	0	0.26	0	67.4	52.4	43.3	
10-11 AM	3003	0.0	2999	3003	0	0.53	11	67.0	42.2	37.9	
11AM-NOON	3371	0.0	3000	3371	0	3.81	212	66.6	14.7	37.3	
NOON-1PM	3612	0.0	3000	3612	0	12.78	698	66.2	8.9	37.3	
1-2 PM	4171	0.0	3000	4171	0	28.65	1584	62.3	7.5	37.3	
2-3 PM	4590	0.0	2999	3549	1041	49.04+	2722	59.5	6.9	37.3	
3-4 PM	4578	0.0	2999	3077	1501	50.45+	2800	59.6	6.9	37.3	
4-5 PM	4524	0.0	2999	2976	1548	50.88+	2821	59.9	6.9	37.3	
5-6 PM	4222	0.0	2999	2858	1363	49.60+	2738	62.0	6.9	37.3	
6-7 PM	3644	0.0	2999	2961	684	47.69+	2612	66.0	7.0	37.3	
7-8 PM	3034	0.0	2999	2902	132	47.04+	2572	66.9	7.0	37.3	
8-9 PM	2586	0.0	2999	2586	0	43.02+	2348	67.5	7.0	37.3	
9-10 PM	1988	0.0	2999	1988	0	29.98	1634	68.2	7.4	37.3	
10-11 PM	1570	0.0	2999	1570	0	3.43	449	68.8	21.2	46.4	
11PM-MID	968	0.0	3000	968	0	0.18	0	69.6	57.6	49.7	

+ 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	0.0100
MAIN ROUTE WITH WORKS	0.0029
'DIVERSION'	0.0023
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$363,884
CONGESTED HOURS PER DAY*	7

\*Delays Exceeding User-Specified Maximum

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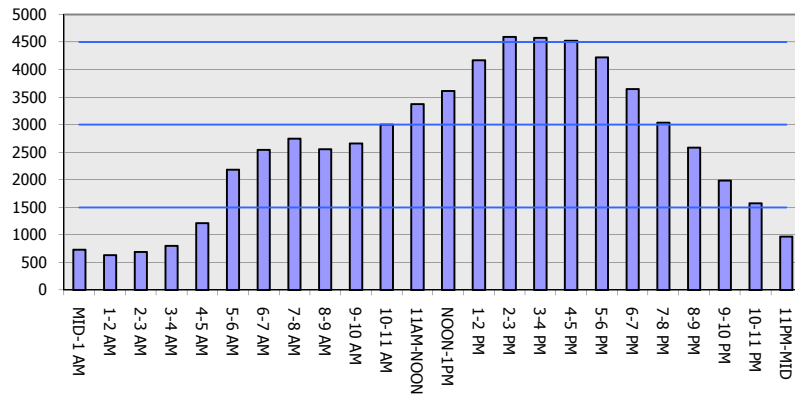
**OCTOBER**

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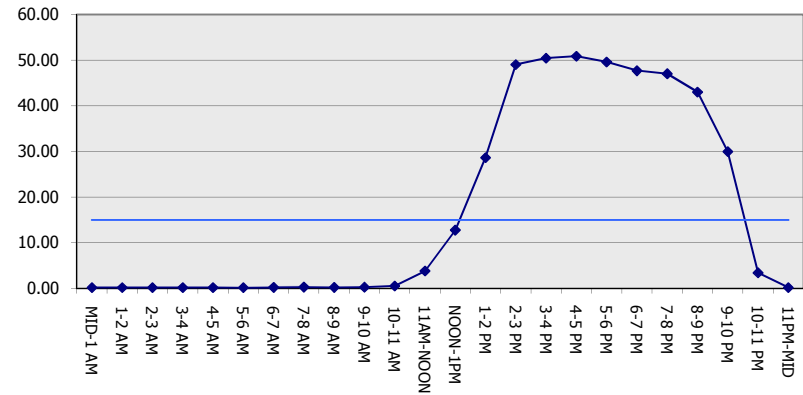
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**FRIDAY WESTBOUND DIRECTION**

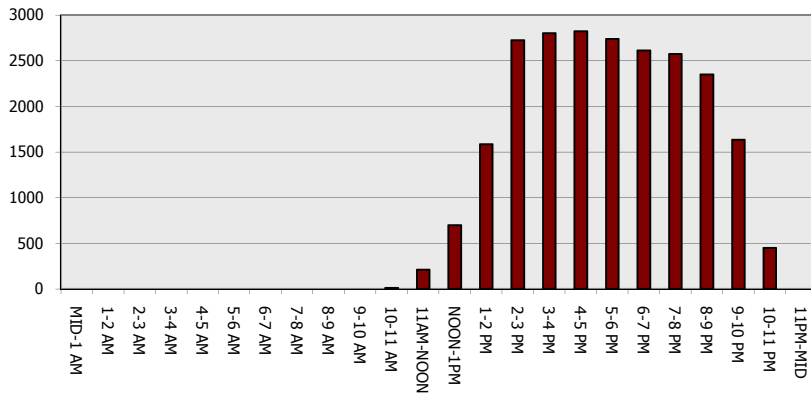
**Main Route - Traffic Demand (Vehicles Per Hour)**



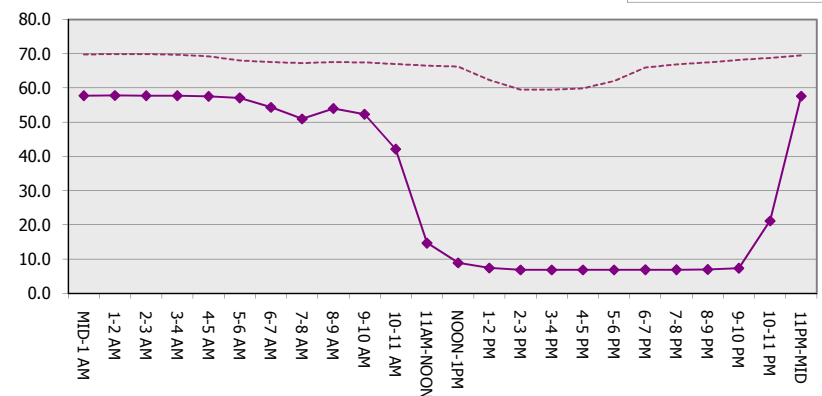
**Main Route Average Delay Per Vehicle (Minutes)**



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



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



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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	701	0.0	3000	701	0	0.18	0	69.9	57.8	49.7
1-2 AM	515	0.0	3000	515	0	0.18	0	70.1	57.8	49.7
2-3 AM	402	0.0	3000	402	0	0.18	0	70.2	57.9	49.7
3-4 AM	466	0.0	3000	466	0	0.18	0	70.2	57.9	49.7
4-5 AM	571	0.0	3000	571	0	0.18	0	70.0	57.8	49.7
5-6 AM	1016	0.0	3000	1016	0	0.18	0	69.5	57.6	49.7
6-7 AM	1567	0.0	3000	1567	0	0.17	0	68.8	57.4	49.7
7-8 AM	2451	0.0	3000	2451	0	0.19	0	67.7	55.9	48.0
8-9 AM	2761	0.0	2999	2761	0	0.29	0	67.3	50.9	41.4
9-10 AM	3486	0.0	2999	3486	0	3.21	200	66.4	16.9	37.3
10-11 AM	4117	0.0	3000	4117	0	18.30	1022	62.7	8.2	37.3
11AM-NOON	4203	0.0	3000	4203	0	39.82+	2199	62.2	7.1	37.3
NOON-1PM	4282	0.0	3000	2928	1353	49.48+	2734	61.6	6.9	37.3
1-2 PM	5055	0.0	3000	3069	1986	50.83+	2842	56.3	6.9	37.3
2-3 PM	5369	0.0	3000	3000	2370	50.85+	2859	54.2	6.9	37.3
3-4 PM	5644	0.0	3000	3000	2644	50.58+	2859	52.3	6.9	37.3
4-5 PM	5565	0.0	3000	3000	2565	50.66+	2859	52.8	6.9	37.3
5-6 PM	5071	0.0	3000	3000	2071	51.12+	2859	56.2	6.9	37.3
6-7 PM	4662	0.0	3000	3002	1660	51.44+	2859	59.0	6.9	37.3
7-8 PM	3577	0.0	3000	2792	786	48.40+	2650	66.3	7.0	37.3
8-9 PM	2338	0.0	3000	2338	0	42.50+	2319	67.8	7.0	37.3
9-10 PM	1848	0.0	3000	1848	0	25.32	1384	68.4	7.6	37.5
10-11 PM	1498	0.0	2999	1498	0	1.23	216	68.9	33.3	49.7
11PM-MID	1121	0.0	3000	1121	0	0.18	0	69.4	57.6	49.7

+ 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	0.0109
MAIN ROUTE WITH WORKS	0.0027
'DIVERSION'	0.0057

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$552,105
CONGESTED HOURS PER DAY*	10

\*Delays Exceeding User-Specified Maximum

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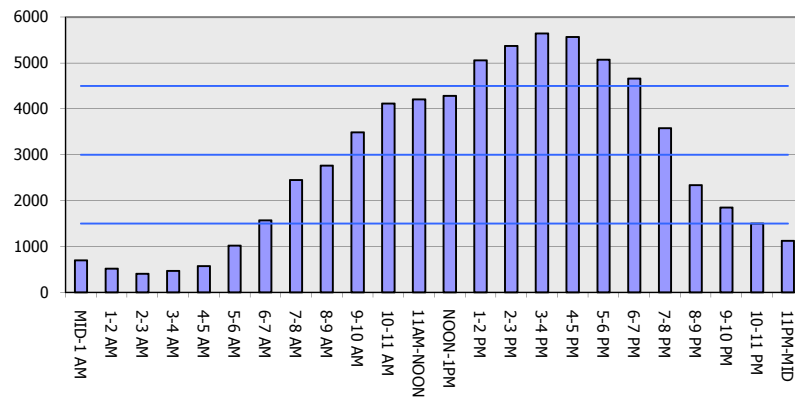
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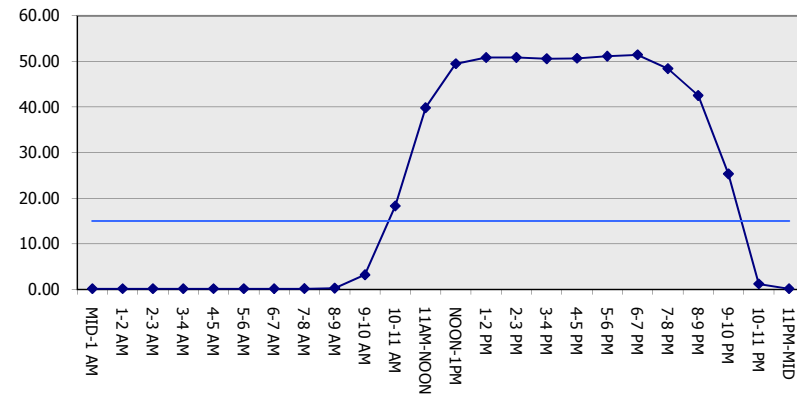
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**FRIDAY EASTBOUND DIRECTION**

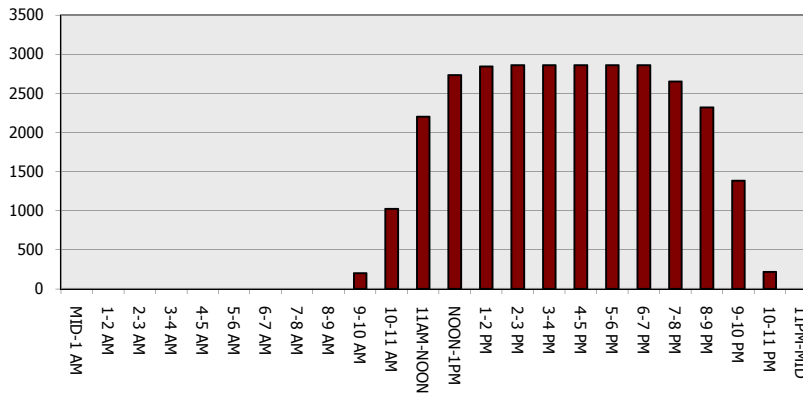
**Main Route - Traffic Demand (Vehicles Per Hour)**



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



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



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

