

IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	1141	0.0	1499	1141	0	3.42	105	69.3	36.1	36.4	
1-2 AM	689	0.0	1500	689	0	0.55	0	69.9	60.8	42.8	
2-3 AM	570	0.0	1500	570	0	0.54	0	70.0	61.0	43.2	
3-4 AM	478	0.0	1500	478	0	0.53	0	70.1	61.3	43.6	
4-5 AM	546	0.0	1500	546	0	0.54	0	70.0	61.1	43.3	
5-6 AM	1018	0.0	1499	1018	0	0.61	0	69.5	59.6	40.9	
6-7 AM	1696	0.0	1499	1696	0	2.69	55	68.6	40.0	30.8	
7-8 AM	2388	0.0	1500	1763	625	15.06+	375	67.8	13.7	31.9	
8-9 AM	3123	0.0	OFF	3123	0	0.40	36	66.9	60.5	60.5	
9-10 AM	3585	0.0	OFF	3585	0	0.00	0	66.3	66.3	66.3	
10-11 AM	4099	0.0	OFF	4099	0	0.00	0	62.8	62.8	62.8	
11AM-NOON	4312	0.0	OFF	4312	0	0.00	0	61.4	61.4	61.4	
NOON-1PM	4498	0.0	OFF	4498	0	0.00	0	60.1	60.1	60.1	
1-2 PM	4473	0.0	OFF	4473	0	0.00	0	60.3	60.3	60.3	
2-3 PM	4270	0.0	OFF	4270	0	0.00	0	61.7	61.7	61.7	
3-4 PM	4207	0.0	OFF	4207	0	0.00	0	62.1	62.1	62.1	
4-5 PM	3999	0.0	OFF	3999	0	0.00	0	63.5	63.5	63.5	
5-6 PM	3585	0.0	OFF	3585	0	0.00	0	66.3	66.3	66.3	
6-7 PM	3017	0.0	1499	1550	1467	16.47+	412	67.0	12.7	36.6	
7-8 PM	2541	0.0	1499	1707	834	13.60+	352	67.6	14.8	35.2	
8-9 PM	2182	0.0	1499	1657	525	15.75+	386	68.0	13.2	30.8	
9-10 PM	1983	0.0	1500	1500	483	16.34+	400	68.2	12.8	30.8	
10-11 PM	1678	0.0	1500	1494	184	16.34+	399	68.6	12.9	30.8	
11PM-MID	1343	0.0	1499	1343	0	14.17+	346	69.1	14.4	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	0.0
(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	0
(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	0.0420
MAIN ROUTE WITH WORKS	0.0381
'DIVERSION'	0.0065
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$61,433
CONGESTED HOURS PER DAY*	7

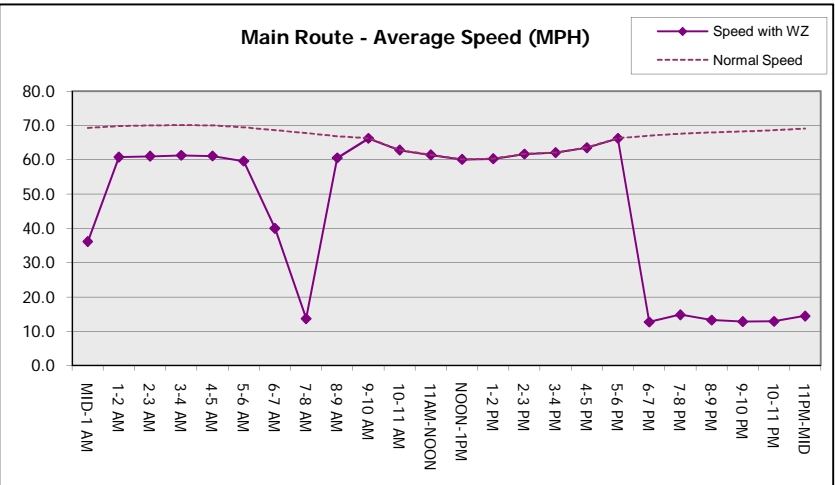
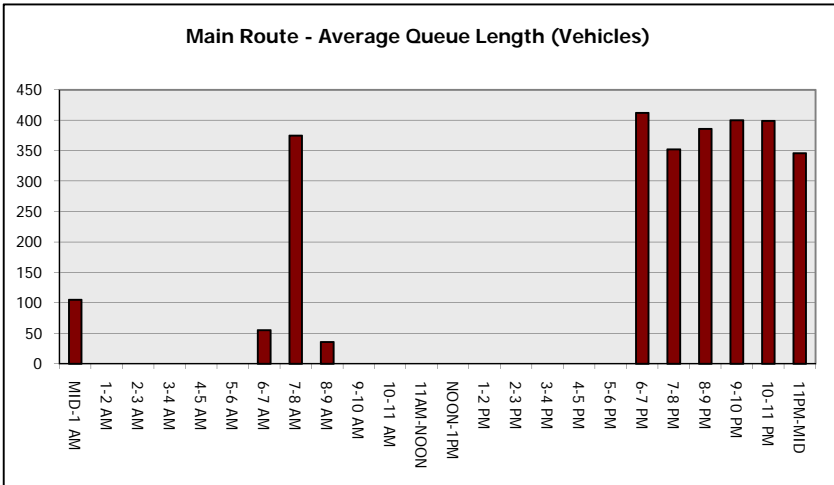
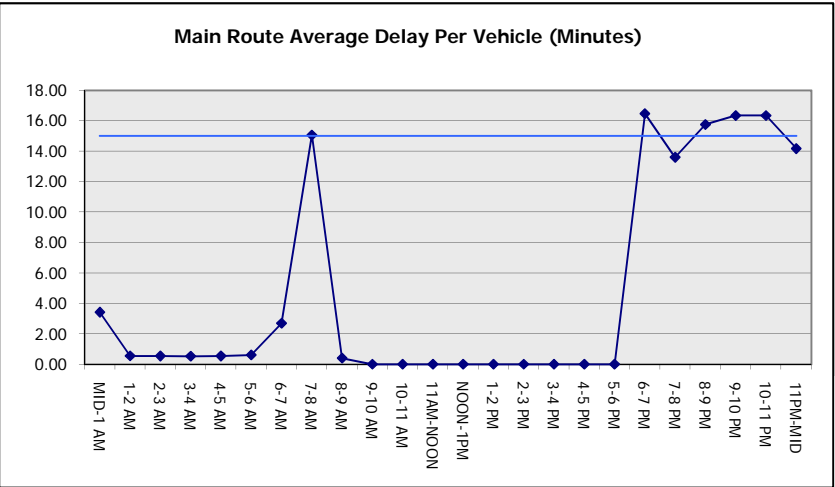
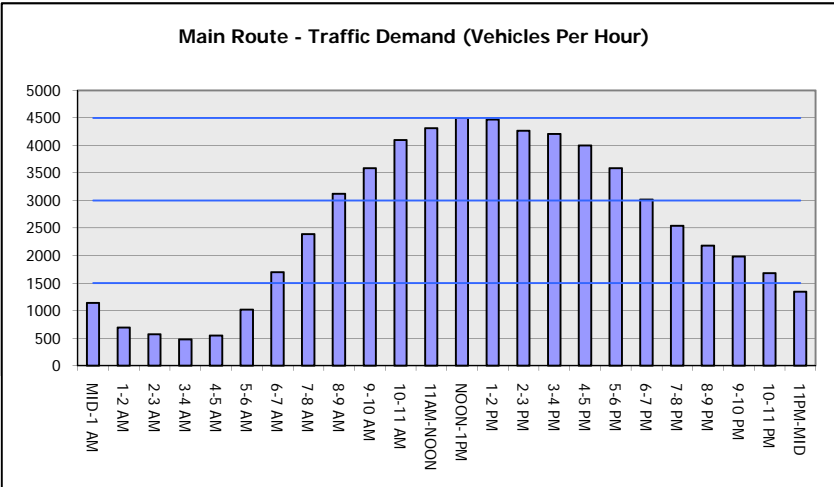
*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	1075	0.0	1499	1075	0	4.06	136	69.4	33.2	36.7
1-2 AM	604	0.0	1500	604	0	0.54	0	70.0	61.0	43.1
2-3 AM	518	0.0	1500	518	0	0.53	0	70.1	61.2	43.4
3-4 AM	456	0.0	1500	456	0	0.53	0	70.2	61.4	43.7
4-5 AM	686	0.0	1500	686	0	0.55	0	69.9	60.8	42.8
5-6 AM	1174	0.0	1499	1174	0	0.69	0	69.3	58.4	38.9
6-7 AM	1420	0.0	1499	1420	0	1.02	0	69.0	54.2	32.7
7-8 AM	1878	0.0	1500	1878	0	5.85	158	68.4	26.8	30.8
8-9 AM	2523	0.0	OFF	2523	0	0.24	20	67.6	63.7	63.7
9-10 AM	3190	0.0	OFF	3190	0	0.00	0	66.8	66.8	66.8
10-11 AM	3635	0.0	OFF	3635	0	0.00	0	66.0	66.0	66.0
11AM-NOON	3996	0.0	OFF	3996	0	0.00	0	63.5	63.5	63.5
NOON-1PM	4210	0.0	OFF	4210	0	0.00	0	62.1	62.1	62.1
1-2 PM	4180	0.0	OFF	4180	0	0.00	0	62.3	62.3	62.3
2-3 PM	4352	0.0	OFF	4352	0	0.00	0	61.1	61.1	61.1
3-4 PM	4323	0.0	OFF	4323	0	0.00	0	61.3	61.3	61.3
4-5 PM	4102	0.0	OFF	4102	0	0.00	0	62.8	62.8	62.8
5-6 PM	3857	0.0	OFF	3857	0	0.00	0	64.5	64.5	64.5
6-7 PM	3345	0.0	1499	1550	1795	16.45+	412	66.6	12.7	36.6
7-8 PM	2894	0.0	1499	1592	1301	14.40+	379	67.1	14.2	36.0
8-9 PM	2626	0.0	1499	1758	868	14.70+	370	67.4	13.9	33.0
9-10 PM	2461	0.0	1499	1500	961	16.31+	399	67.7	12.8	30.8
10-11 PM	1948	0.0	1500	1500	448	16.35+	400	68.3	12.8	30.8
11PM-MID	1430	0.0	1500	1410	19	15.48+	377	68.9	13.4	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	0.0417
MAIN ROUTE WITH WORKS	0.0368
'DIVERSION'	0.0085

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$62,401
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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