

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

FRIDAY 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	1006	0.0	1499	1006	0	3.90	140	69.5	33.8	37.3	
1-2 AM	668	0.0	1500	668	0	0.55	0	69.9	60.8	42.8	
2-3 AM	575	0.0	1500	575	0	0.54	0	70.0	61.0	43.2	
3-4 AM	579	0.0	1500	579	0	0.54	0	70.0	61.0	43.2	
4-5 AM	956	0.0	1499	956	0	0.62	0	69.6	59.6	40.8	
5-6 AM	2410	0.0	OFF	2410	0	0.00	0	67.8	67.8	67.8	
6-7 AM	4197	0.0	OFF	4197	0	0.00	0	62.2	62.2	62.2	
7-8 AM	4571	0.0	OFF	4571	0	0.00	0	59.6	59.6	59.6	
8-9 AM	4050	0.0	OFF	4050	0	0.00	0	63.2	63.2	63.2	
9-10 AM	3977	0.0	OFF	3977	0	0.00	0	63.7	63.7	63.7	
10-11 AM	4353	0.0	OFF	4353	0	0.00	0	61.1	61.1	61.1	
11AM-NOON	4423	0.0	OFF	4423	0	0.00	0	60.6	60.6	60.6	
NOON-1PM	4668	0.0	OFF	4668	0	0.00	0	58.9	58.9	58.9	
1-2 PM	4703	0.0	OFF	4703	0	0.00	0	58.7	58.7	58.7	
2-3 PM	4828	0.0	OFF	4828	0	0.00	0	57.9	57.9	57.9	
3-4 PM	5107	0.0	OFF	5107	0	0.00	0	56.0	56.0	56.0	
4-5 PM	5328	0.0	OFF	5328	0	0.00	0	54.5	54.5	54.5	
5-6 PM	5115	0.0	OFF	5115	0	0.00	0	55.9	55.9	55.9	
6-7 PM	4553	0.0	OFF	4553	0	0.00	0	59.7	59.7	59.7	
7-8 PM	3578	0.0	1499	1550	2028	16.43+	412	66.3	12.7	36.6	
8-9 PM	2812	0.0	1499	1586	1227	14.40+	380	67.3	14.2	36.0	
9-10 PM	2595	0.0	1499	1737	858	14.57+	369	67.5	14.0	33.5	
10-11 PM	1994	0.0	1499	1500	494	16.34+	399	68.2	12.8	30.8	
11PM-MID	1526	0.0	1500	1469	57	15.62+	380	68.8	13.3	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	0.0538
MAIN ROUTE WITH WORKS	0.0498
'DIVERSION'	0.0074
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$46,497
CONGESTED HOURS PER DAY*	5

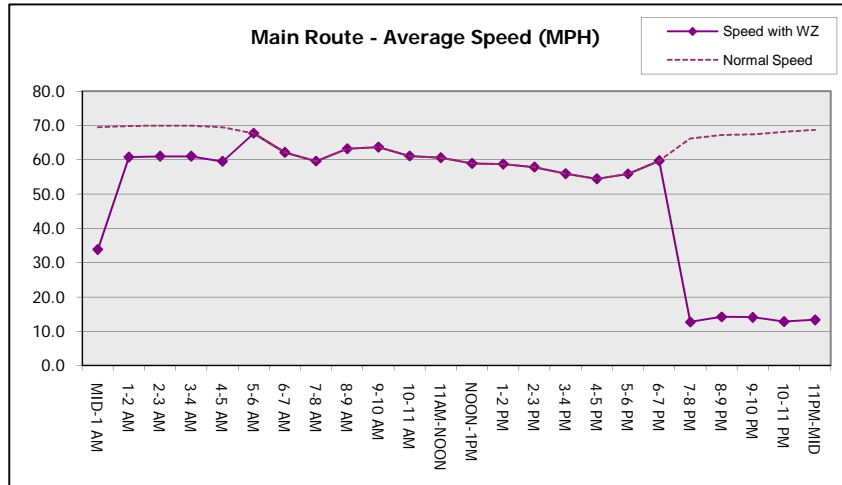
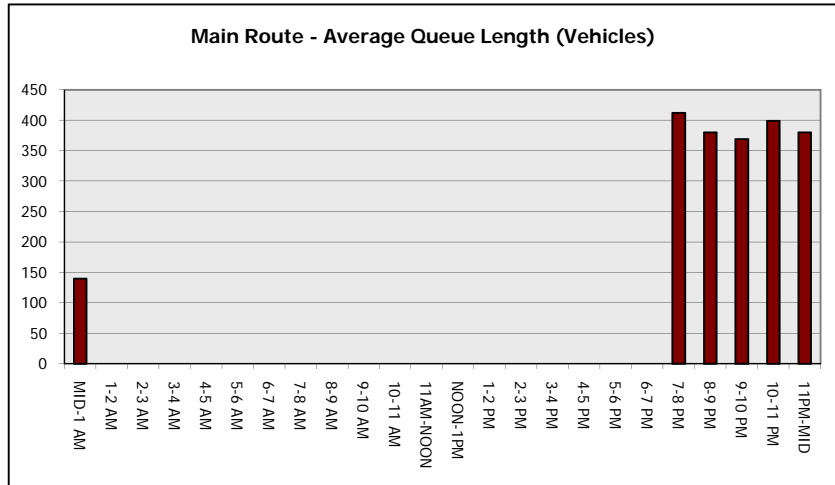
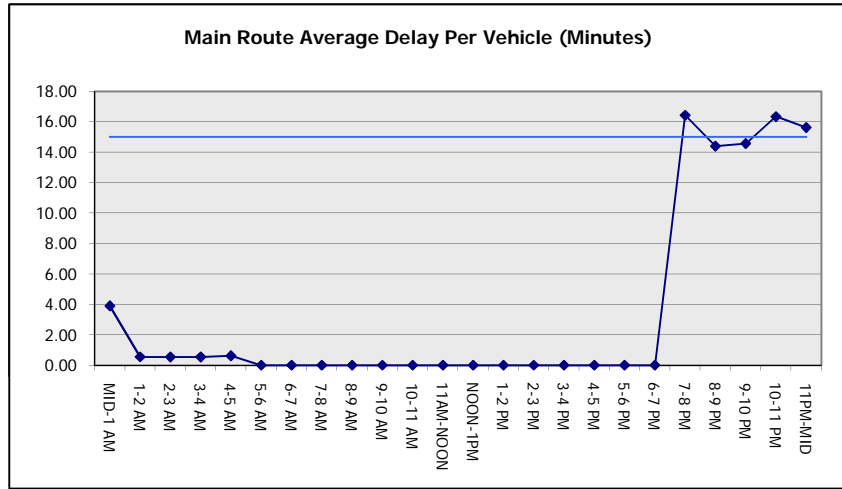
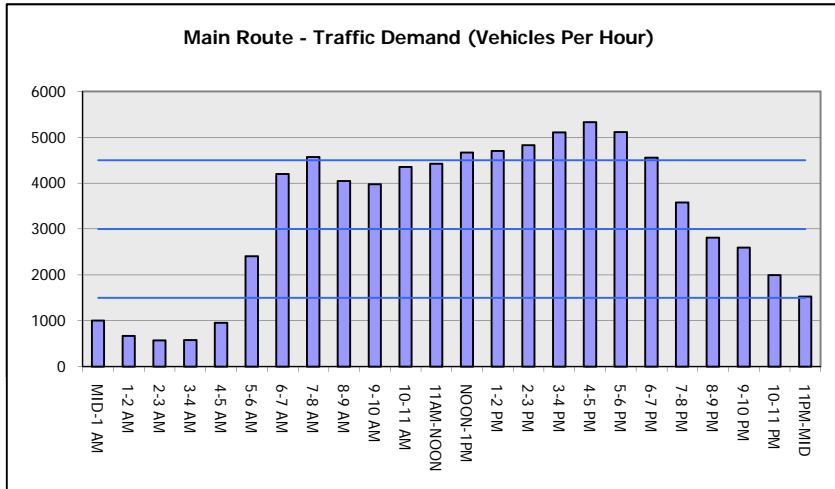
*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	697	0.0	1499	697	0	2.54	104	69.9	41.4	41.5
1-2 AM	466	0.0	1500	466	0	0.53	0	70.2	61.3	43.7
2-3 AM	447	0.0	1500	447	0	0.53	0	70.2	61.4	43.7
3-4 AM	550	0.0	1500	550	0	0.54	0	70.0	61.1	43.3
4-5 AM	1098	0.0	1499	1098	0	0.72	0	69.4	58.1	38.4
5-6 AM	2442	0.0	OFF	2442	0	0.00	0	67.7	67.7	67.7
6-7 AM	4157	0.0	OFF	4157	0	0.00	0	62.5	62.5	62.5
7-8 AM	5075	0.0	OFF	5075	0	0.00	0	56.2	56.2	56.2
8-9 AM	4202	0.0	OFF	4202	0	0.00	0	62.2	62.2	62.2
9-10 AM	3727	0.0	OFF	3727	0	0.00	0	65.4	65.4	65.4
10-11 AM	3751	0.0	OFF	3751	0	0.00	0	65.2	65.2	65.2
11AM-NOON	3980	0.0	OFF	3980	0	0.00	0	63.7	63.7	63.7
NOON-1PM	4357	0.0	OFF	4357	0	0.00	0	61.1	61.1	61.1
1-2 PM	4418	0.0	OFF	4418	0	0.00	0	60.7	60.7	60.7
2-3 PM	4937	0.0	OFF	4937	0	0.00	0	57.1	57.1	57.1
3-4 PM	5244	0.0	OFF	5244	0	0.00	0	55.0	55.0	55.0
4-5 PM	5388	0.0	OFF	5388	0	0.00	0	54.0	54.0	54.0
5-6 PM	5328	0.0	OFF	5328	0	0.00	0	54.5	54.5	54.5
6-7 PM	4383	0.0	OFF	4383	0	0.00	0	60.9	60.9	60.9
7-8 PM	3365	0.0	1499	1550	1815	16.45+	412	66.6	12.7	36.6
8-9 PM	2880	0.0	1499	1591	1289	14.40+	380	67.1	14.2	36.0
9-10 PM	2668	0.0	1499	1769	899	14.77+	372	67.4	13.8	32.9
10-11 PM	2031	0.0	1499	1500	531	16.34+	399	68.2	12.8	30.8
11PM-MID	1594	0.0	1500	1463	130	16.21+	395	68.7	12.9	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	0.0528
MAIN ROUTE WITH WORKS	0.0489
'DIVERSION'	0.0074

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$46,400
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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