

IH 43: STH 100/BROWN DEER RD TO SILVER SPRING DR (MILWAUKEE COUNTY) NIGHTTIME 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	420	0.0	1500	420	0	0.46	0	65.6	56.9	43.8
1-2 AM	185	0.0	1500	185	0	0.44	0	66.0	57.6	44.7
2-3 AM	164	0.0	1500	164	0	0.44	0	66.1	57.6	44.8
3-4 AM	155	0.0	1500	155	0	0.44	0	66.1	57.7	44.8
4-5 AM	236	0.0	1500	236	0	0.45	0	66.0	57.4	44.5
5-6 AM	450	0.0	1500	450	0	0.47	0	65.6	56.8	43.7
6-7 AM	731	0.0	1500	731	0	0.49	0	65.0	56.0	42.7
7-8 AM	1130	0.0	1499	1130	0	0.61	0	64.3	53.7	39.3
8-9 AM	1661	0.0	OFF	1661	0	0.00	0	63.3	63.3	63.3
9-10 AM	2056	0.0	OFF	2056	0	0.00	0	62.5	62.5	62.5
10-11 AM	2375	0.0	OFF	2375	0	0.00	0	62.0	62.0	62.0
11AM-NOON	2644	0.0	OFF	2644	0	0.00	0	59.4	59.4	59.4
NOON-1PM	2735	0.0	OFF	2735	0	0.00	0	58.5	58.5	58.5
1-2 PM	2653	0.0	OFF	2653	0	0.00	0	59.3	59.3	59.3
2-3 PM	2702	0.0	OFF	2702	0	0.00	0	58.8	58.8	58.8
3-4 PM	2727	0.0	OFF	2727	0	0.00	0	58.6	58.6	58.6
4-5 PM	2535	0.0	OFF	2535	0	0.00	0	60.5	60.5	60.5
5-6 PM	2352	0.0	OFF	2352	0	0.00	0	62.0	62.0	62.0
6-7 PM	2133	0.0	1499	1859	274	10.66+	291	62.4	14.5	30.8
7-8 PM	1686	0.0	1500	1538	148	15.81+	399	63.2	10.7	30.8
8-9 PM	1465	0.0	1500	1465	0	15.30+	385	63.7	10.9	30.8
9-10 PM	1481	0.0	1500	1481	0	14.46	362	63.7	11.2	30.8
10-11 PM	1125	0.0	1499	1125	0	5.43	174	64.3	23.2	35.0
11PM-MID	884	0.0	1500	884	0	0.51	0	64.7	55.5	42.1

"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

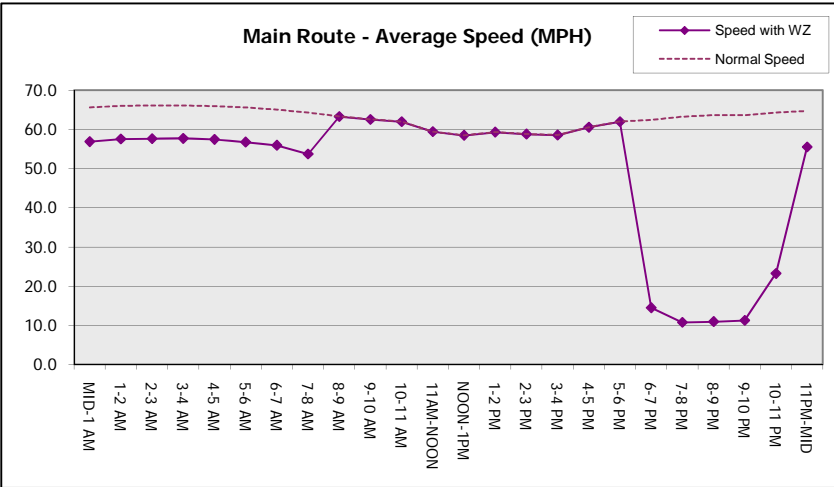
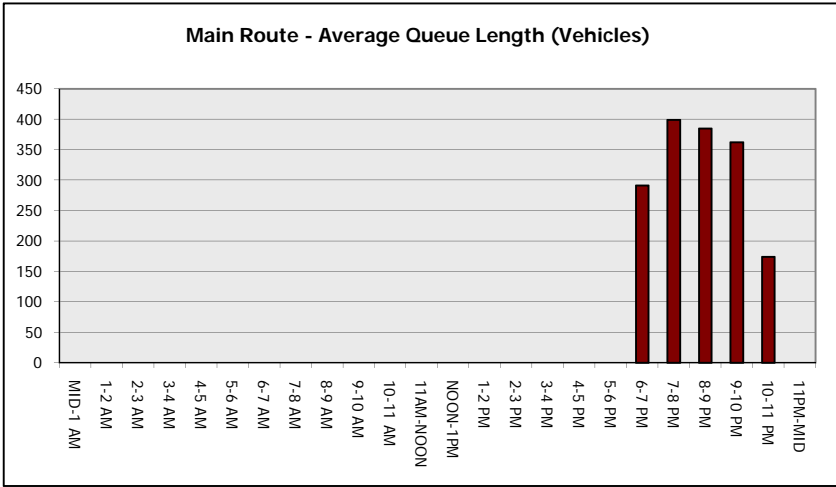
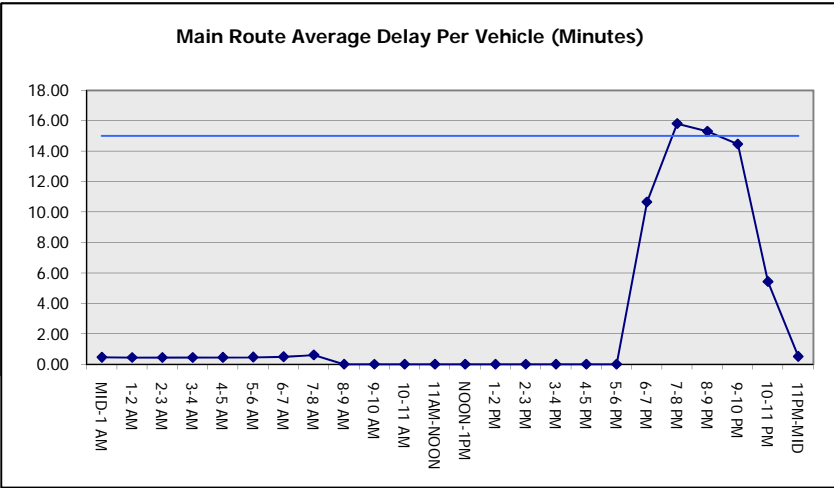
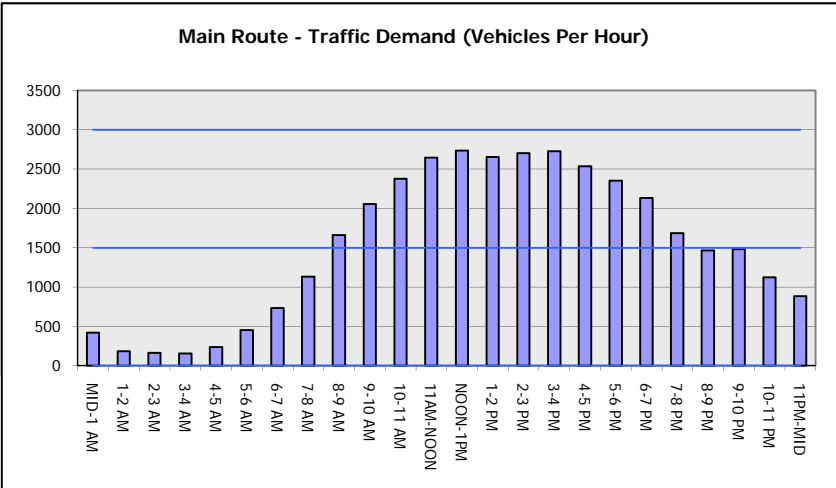
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0193
MAIN ROUTE WITH WORKS	0.0183
'DIVERSION'	0.0005
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$27,515
CONGESTED HOURS PER DAY*	3

*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	658	0.0	1500	658	0	0.49	0	65.1	56.1	42.9
1-2 AM	389	0.0	1500	389	0	0.46	0	65.6	56.9	43.9
2-3 AM	370	0.0	1500	370	0	0.46	0	65.7	57.0	44.0
3-4 AM	233	0.0	1500	233	0	0.45	0	66.0	57.4	44.5
4-5 AM	257	0.0	1500	257	0	0.45	0	65.9	57.4	44.5
5-6 AM	446	0.0	1500	446	0	0.47	0	65.6	56.8	43.7
6-7 AM	795	0.0	1500	795	0	0.50	0	64.9	55.8	42.4
7-8 AM	1224	0.0	1499	1224	0	0.67	0	64.1	52.7	37.9
8-9 AM	1740	0.0	OFF	1740	0	0.00	0	63.2	63.2	63.2
9-10 AM	2183	0.0	OFF	2183	0	0.00	0	62.3	62.3	62.3
10-11 AM	2661	0.0	OFF	2661	0	0.00	0	59.2	59.2	59.2
11AM-NOON	2726	0.0	OFF	2726	0	0.00	0	58.6	58.6	58.6
NOON-1PM	2859	0.0	OFF	2859	0	0.00	0	57.2	57.2	57.2
1-2 PM	2723	0.0	OFF	2723	0	0.00	0	58.6	58.6	58.6
2-3 PM	2748	0.0	OFF	2748	0	0.00	0	58.4	58.4	58.4
3-4 PM	2795	0.0	OFF	2795	0	0.00	0	57.9	57.9	57.9
4-5 PM	2516	0.0	OFF	2516	0	0.00	0	60.7	60.7	60.7
5-6 PM	2253	0.0	OFF	2253	0	0.00	0	62.2	62.2	62.2
6-7 PM	1891	0.0	1499	1891	0	8.01	218	62.8	17.7	30.8
7-8 PM	1504	0.0	1499	1497	7	15.79+	398	63.6	10.7	30.8
8-9 PM	1577	0.0	1500	1513	64	15.92+	402	63.5	10.7	30.8
9-10 PM	1528	0.0	1500	1493	34	15.87+	400	63.5	10.7	30.8
10-11 PM	1248	0.0	1499	1248	0	11.18	288	64.1	13.8	31.5
11PM-MID	857	0.0	1500	857	0	0.90	17	64.8	50.1	42.1

"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	0.0200
MAIN ROUTE WITH WORKS	0.0191
'DIVERSION'	0.0001

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$28,525
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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