

<b>USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY)</b> <b>OFF-PEAK DAY CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>MAY</b>
	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	584	0.0	OFF	584	0	0.00	0	70.0	70.0	70.0
1-2 AM	802	0.0	OFF	802	0	0.00	0	69.7	69.7	69.7
2-3 AM	2048	0.0	OFF	2048	0	0.00	0	68.2	68.2	68.2
3-4 AM	3824	0.0	OFF	3824	0	0.00	0	64.7	64.7	64.7
4-5 AM	4246	0.0	OFF	4246	0	0.00	0	61.9	61.9	61.9
5-6 AM	4328	0.0	OFF	4328	0	0.00	0	61.3	61.3	61.3
6-7 AM	4724	0.0	OFF	4724	0	0.00	0	58.6	58.6	58.6
7-8 AM	4945	0.0	OFF	4945	0	0.00	0	57.1	57.1	57.1
8-9 AM	4743	0.0	OFF	4743	0	0.00	0	58.4	58.4	58.4
9-10 AM	4584	0.0	OFF	4584	0	0.00	0	59.6	59.6	59.6
10-11 AM	4806	0.0	2999	3909	897	11.94+	683	58.0	11.9	37.3
11AM-NOON	5320	0.0	2999	3000	2320	17.31+	953	54.5	10.0	37.3
NOON-1PM	5083	0.0	3000	3000	2083	17.42+	953	56.1	10.0	37.3
1-2 PM	4729	0.0	3000	3028	1700	17.50+	949	58.6	10.0	37.3
2-3 PM	5192	0.0	3000	3000	2193	17.37+	953	55.4	10.0	37.3
3-4 PM	4784	0.0	OFF	4784	0	3.88	360	58.2	20.9	20.9
4-5 PM	3835	0.0	OFF	3835	0	0.00	0	64.6	64.6	64.6
5-6 PM	3281	0.0	OFF	3281	0	0.00	0	66.6	66.6	66.6
6-7 PM	2777	0.0	OFF	2777	0	0.00	0	67.3	67.3	67.3
7-8 PM	2332	0.0	OFF	2332	0	0.00	0	67.8	67.8	67.8
8-9 PM	1679	0.0	OFF	1679	0	0.00	0	68.6	68.6	68.6
9-10 PM	1238	0.0	OFF	1238	0	0.00	0	69.2	69.2	69.2
10-11 PM	1035	0.0	OFF	1035	0	0.00	0	69.4	69.4	69.4
11PM-MID	726	0.0	OFF	726	0	0.00	0	69.8	69.8	69.8

"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

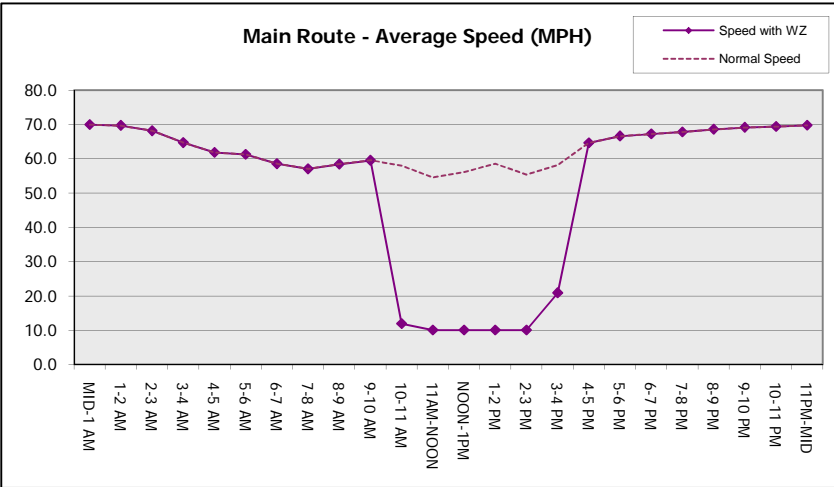
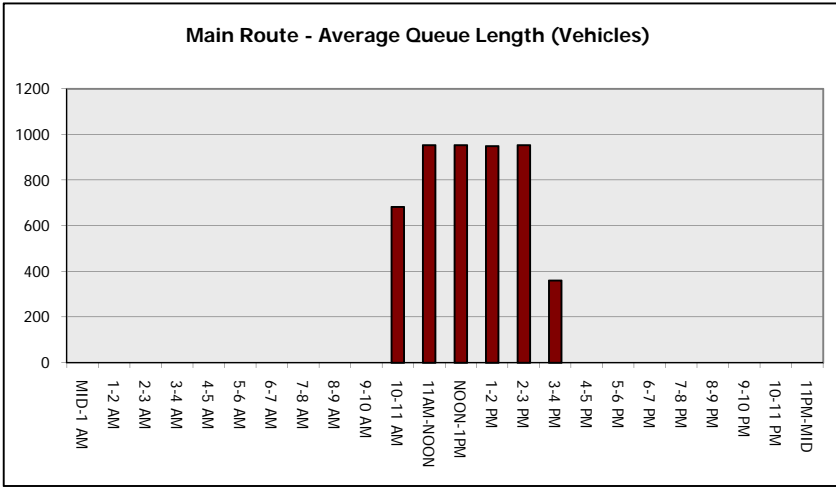
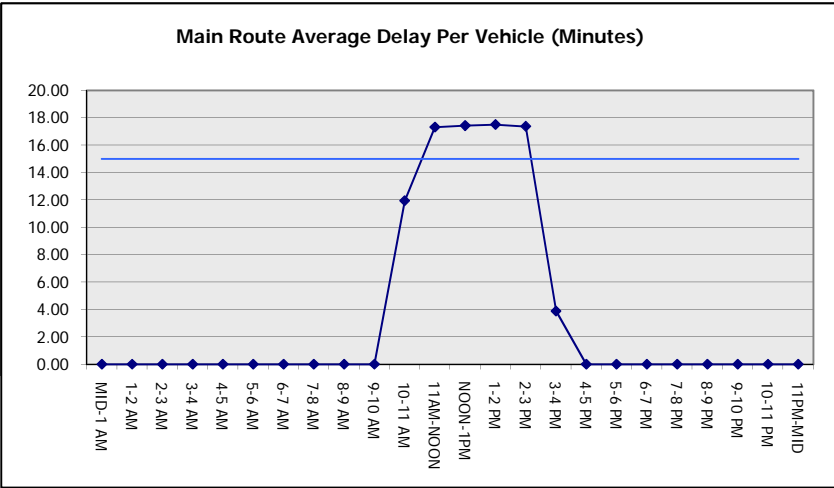
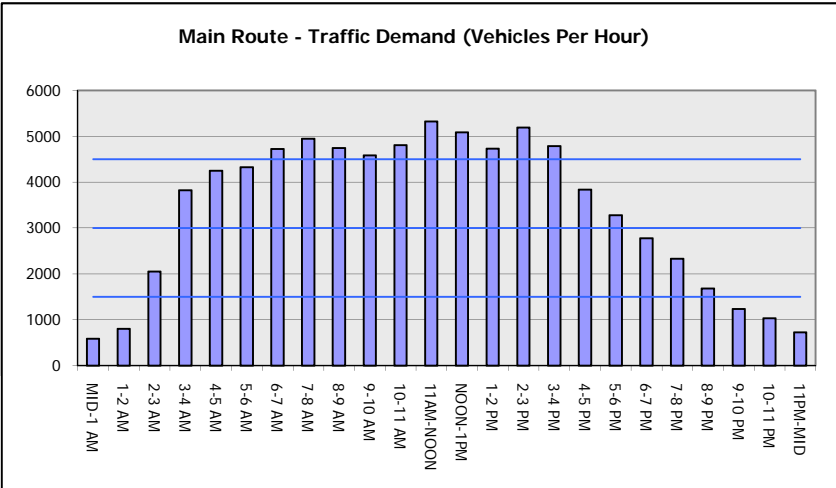
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0273
MAIN ROUTE WITH WORKS	0.0232
'DIVERSION'	0.0071
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$90,863
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

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OFF-PEAK DAY CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**MAY**  
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Construction Season

**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	1420	0.0	OFF	1420	0	0.00	0	69.0	69.0	69.0
1-2 AM	1854	0.0	OFF	1854	0	0.00	0	68.4	68.4	68.4
2-3 AM	3239	0.0	OFF	3239	0	0.00	0	66.7	66.7	66.7
3-4 AM	4431	0.0	OFF	4431	0	0.00	0	60.6	60.6	60.6
4-5 AM	5002	0.0	OFF	5002	0	0.00	0	56.7	56.7	56.7
5-6 AM	4828	0.0	OFF	4828	0	0.00	0	57.9	57.9	57.9
6-7 AM	5087	0.0	OFF	5087	0	0.00	0	56.1	56.1	56.1
7-8 AM	5291	0.0	OFF	5291	0	0.00	0	54.7	54.7	54.7
8-9 AM	4990	0.0	OFF	4990	0	0.00	0	56.8	56.8	56.8
9-10 AM	4979	0.0	OFF	4979	0	0.00	0	56.8	56.8	56.8
10-11 AM	5255	0.0	2999	3985	1270	13.14+	740	55.0	11.2	37.3
11AM-NOON	5697	0.0	2999	3000	2697	17.12+	953	51.9	10.0	37.3
NOON-1PM	5986	0.0	2999	3000	2987	16.95+	953	49.9	10.0	37.3
1-2 PM	6430	0.0	3000	3000	3430	16.68+	953	46.9	10.0	37.3
2-3 PM	5989	0.0	3000	3000	2989	16.95+	953	49.9	10.0	37.3
3-4 PM	5193	0.0	OFF	5193	0	6.06	581	55.4	15.1	15.1
4-5 PM	4630	0.0	OFF	4630	0	0.16	11	59.2	55.1	55.1
5-6 PM	4345	0.0	OFF	4345	0	0.00	0	61.2	61.2	61.2
6-7 PM	4075	0.0	OFF	4075	0	0.00	0	63.0	63.0	63.0
7-8 PM	3421	0.0	OFF	3421	0	0.00	0	66.5	66.5	66.5
8-9 PM	2707	0.0	OFF	2707	0	0.00	0	67.4	67.4	67.4
9-10 PM	2247	0.0	OFF	2247	0	0.00	0	67.9	67.9	67.9
10-11 PM	1935	0.0	OFF	1935	0	0.00	0	68.3	68.3	68.3
11PM-MID	1714	0.0	OFF	1714	0	0.00	0	68.6	68.6	68.6

"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	0.0337
MAIN ROUTE WITH WORKS	0.0281
'DIVERSION'	0.0104

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$107,681
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

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