

<b>USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY)                  CONTINUOUS (24 HOUR) CLOSURE                  NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	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	881	0.0	3000	881	0	0.35	0	69.6	58.2	49.7
1-2 AM	511	0.0	3000	511	0	0.36	0	70.1	58.4	49.7
2-3 AM	460	0.0	3000	460	0	0.36	0	70.2	58.4	49.7
3-4 AM	378	0.0	3000	378	0	0.36	0	70.2	58.5	49.7
4-5 AM	469	0.0	3000	469	0	0.36	0	70.2	58.4	49.7
5-6 AM	937	0.0	3000	937	0	0.35	0	69.6	58.2	49.7
6-7 AM	1626	0.0	3000	1626	0	0.34	0	68.7	57.9	49.7
7-8 AM	2210	0.0	3000	2210	0	0.33	0	68.0	57.7	49.7
8-9 AM	2707	0.0	2999	2707	0	0.53	0	67.4	52.4	42.5
9-10 AM	3411	0.0	2999	3411	0	3.01	161	66.5	25.8	37.3
10-11 AM	4104	0.0	3000	3499	605	14.41+	778	62.8	10.9	37.3
11AM-NOON	4571	0.0	3000	3036	1535	17.40+	940	59.6	10.1	37.3
NOON-1PM	4857	0.0	2999	3000	1857	17.52+	953	57.7	10.0	37.3
1-2 PM	4498	0.0	3000	2987	1511	17.42+	939	60.1	10.1	37.3
2-3 PM	4535	0.0	3000	3010	1525	17.44+	941	59.9	10.1	37.3
3-4 PM	4537	0.0	3000	2996	1541	17.47+	943	59.9	10.1	37.3
4-5 PM	4318	0.0	3000	2971	1348	17.16+	921	61.4	10.1	37.3
5-6 PM	3958	0.0	3000	2987	971	16.82+	895	63.8	10.2	37.3
6-7 PM	3317	0.0	3000	2995	322	16.82+	887	66.6	10.2	37.3
7-8 PM	2754	0.0	2999	2754	0	15.19+	799	67.3	10.7	37.3
8-9 PM	2385	0.0	2999	2385	0	6.16	360	67.8	17.3	40.7
9-10 PM	2086	0.0	3000	2086	0	0.34	0	68.1	57.5	49.7
10-11 PM	1875	0.0	3000	1875	0	0.34	0	68.4	57.8	49.7
11PM-MID	1476	0.0	3000	1476	0	0.34	0	68.9	58.0	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

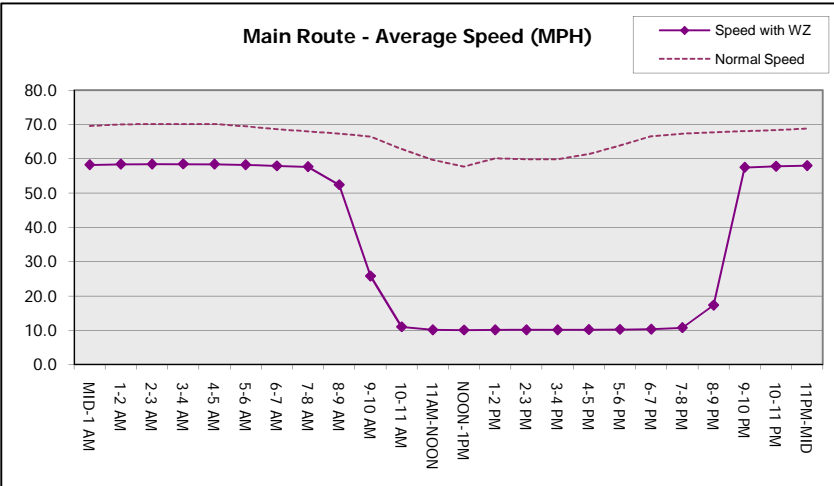
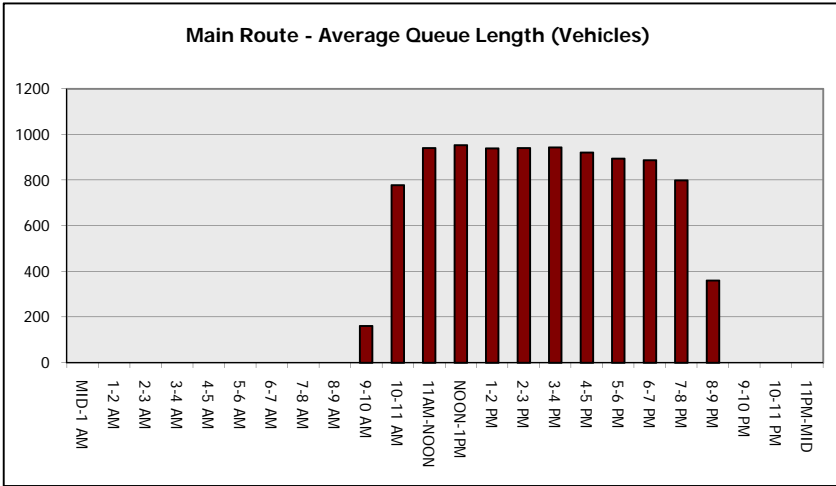
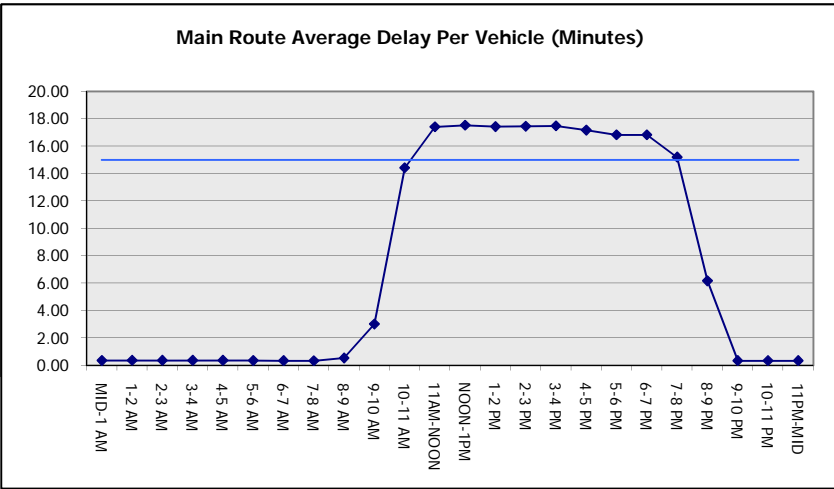
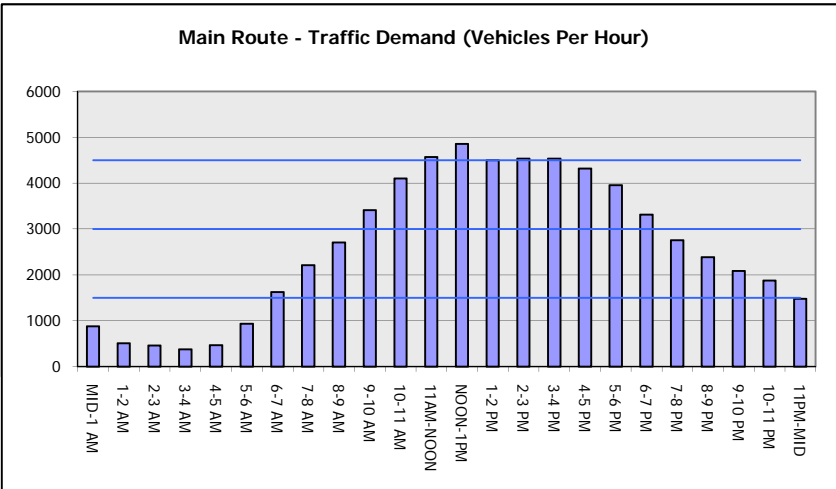
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0210
MAIN ROUTE WITH WORKS	0.0139
'DIVERSION'	0.0087
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$203,601
CONGESTED HOURS PER DAY*	10

\*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	1391	0.0	3000	1391	0	0.34	0	69.0	58.1	49.7
1-2 AM	926	0.0	3000	926	0	0.35	0	69.6	58.2	49.7
2-3 AM	845	0.0	3000	845	0	0.35	0	69.7	58.3	49.7
3-4 AM	641	0.0	3000	641	0	0.36	0	69.9	58.4	49.7
4-5 AM	856	0.0	3000	856	0	0.35	0	69.7	58.3	49.7
5-6 AM	1294	0.0	3000	1294	0	0.35	0	69.1	58.1	49.7
6-7 AM	1948	0.0	3000	1948	0	0.34	0	68.3	57.8	49.7
7-8 AM	2580	0.0	2999	2580	0	0.45	0	67.5	54.4	45.1
8-9 AM	3050	0.0	2999	3050	0	1.02	19	66.9	43.5	37.7
9-10 AM	3439	0.0	3000	3439	0	5.19	274	66.4	18.6	37.3
10-11 AM	3806	0.0	3000	3358	448	14.89+	793	64.8	10.7	37.3
11AM-NOON	4266	0.0	3000	3046	1220	16.96+	909	61.7	10.2	37.3
NOON-1PM	4517	0.0	3000	3021	1496	17.38+	937	60.0	10.1	37.3
1-2 PM	4468	0.0	3000	2992	1476	17.36+	935	60.4	10.1	37.3
2-3 PM	4534	0.0	3000	3008	1526	17.44+	941	59.9	10.1	37.3
3-4 PM	4516	0.0	3000	2991	1525	17.44+	941	60.0	10.1	37.3
4-5 PM	4113	0.0	3000	2968	1145	16.91+	902	62.8	10.2	37.3
5-6 PM	3837	0.0	2999	2995	842	16.82+	892	64.6	10.2	37.3
6-7 PM	3242	0.0	3000	2995	246	16.81+	887	66.7	10.2	37.3
7-8 PM	2808	0.0	2999	2808	0	15.42+	810	67.3	10.6	37.3
8-9 PM	2806	0.0	3000	2806	0	11.61	601	67.3	11.9	37.3
9-10 PM	2910	0.0	3000	2910	0	9.22	468	67.1	13.2	37.3
10-11 PM	2612	0.0	2999	2612	0	4.62	248	67.5	20.0	39.4
11PM-MID	2095	0.0	3000	2095	0	0.34	0	68.1	57.5	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	0.0226
MAIN ROUTE WITH WORKS	0.0154
'DIVERSION'	0.0077

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$215,398
CONGESTED HOURS PER DAY*	10

\*Delays Exceeding User-Specified Maximum

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