

USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	493	0.0	3000	493	0	0.36	0	70.1	58.4	49.7
1-2 AM	540	0.0	3000	540	0	0.36	0	70.0	58.4	49.7
2-3 AM	858	0.0	3000	858	0	0.35	0	69.7	58.3	49.7
3-4 AM	1352	0.0	3000	1352	0	0.35	0	69.1	58.1	49.7
4-5 AM	1857	0.0	3000	1857	0	0.34	0	68.4	57.8	49.7
5-6 AM	2503	0.0	2999	2503	0	0.41	0	67.6	55.3	46.5
6-7 AM	3100	0.0	2999	3100	0	1.16	30	66.9	41.4	37.6
7-8 AM	3635	0.0	3000	3635	0	7.32	402	66.0	15.2	37.3
8-9 AM	4240	0.0	2999	3164	1076	17.10+	916	61.9	10.1	37.3
9-10 AM	4438	0.0	3000	3015	1422	17.26+	929	60.5	10.1	37.3
10-11 AM	4562	0.0	3000	3013	1549	17.48+	944	59.7	10.0	37.3
11AM-NOON	4681	0.0	2999	3000	1680	17.59+	953	58.9	10.0	37.3
NOON-1PM	4763	0.0	3000	3000	1763	17.56+	953	58.3	10.0	37.3
1-2 PM	4516	0.0	3000	2980	1536	17.47+	942	60.0	10.1	37.3
2-3 PM	4080	0.0	3000	2971	1109	16.90+	901	63.0	10.2	37.3
3-4 PM	3633	0.0	2999	2995	638	16.85+	890	66.0	10.2	37.3
4-5 PM	3064	0.0	3000	2970	94	16.75+	883	66.9	10.2	37.3
5-6 PM	2716	0.0	2999	2716	0	14.14+	742	67.4	11.0	37.3
6-7 PM	2489	0.0	2999	2489	0	6.34	350	67.6	16.7	39.7
7-8 PM	1960	0.0	3000	1960	0	0.37	2	68.3	56.8	49.7
8-9 PM	1444	0.0	3000	1444	0	0.34	0	68.9	58.0	49.7
9-10 PM	1157	0.0	3000	1157	0	0.35	0	69.3	58.1	49.7
10-11 PM	925	0.0	3000	925	0	0.35	0	69.6	58.2	49.7
11PM-MID	673	0.0	3000	673	0	0.36	0	69.9	58.4	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

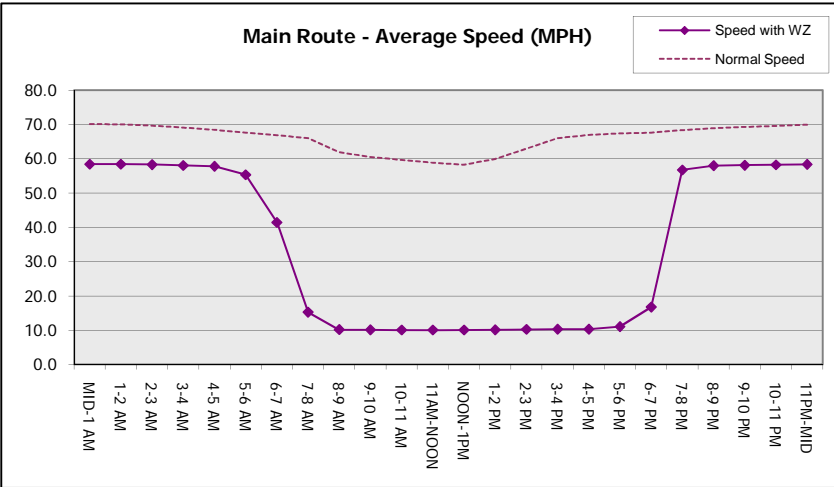
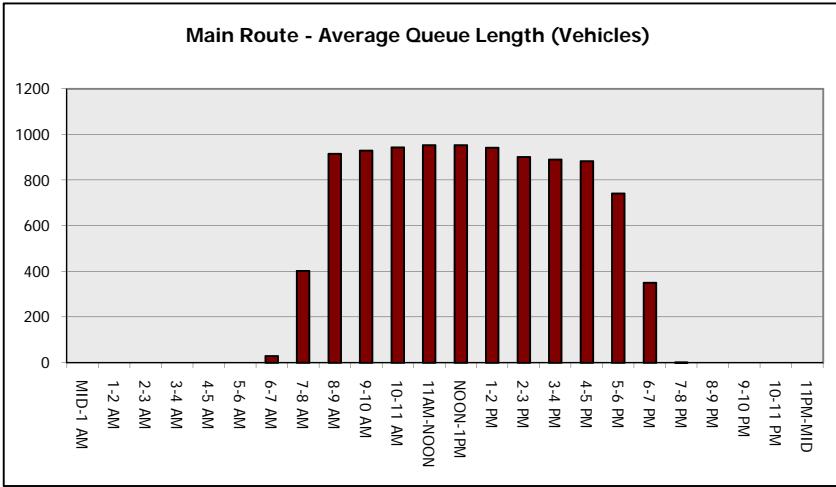
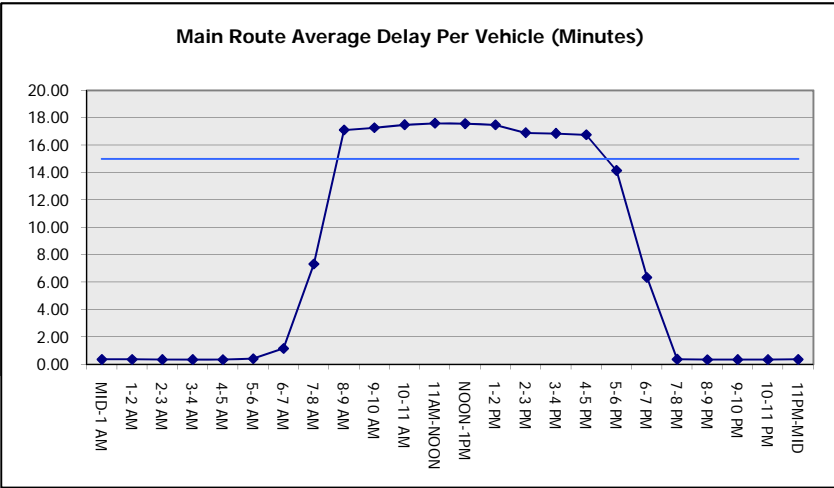
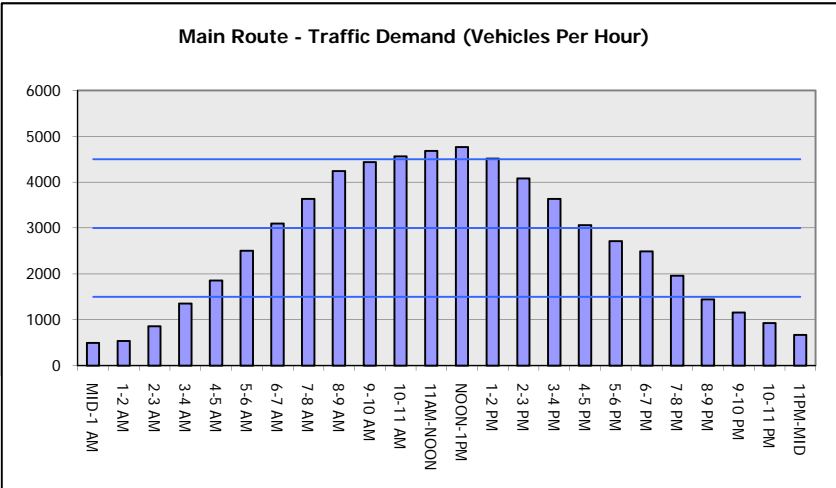
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0213
MAIN ROUTE WITH WORKS	0.0142
'DIVERSION'	0.0084
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$204,995
CONGESTED HOURS PER DAY*	10

*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	1446	0.0	3000	1446	0	0.34	0	68.9	58.0	49.7
1-2 AM	1482	0.0	3000	1482	0	0.34	0	68.9	58.0	49.7
2-3 AM	1866	0.0	3000	1866	0	0.34	0	68.4	57.8	49.7
3-4 AM	2169	0.0	3000	2169	0	0.33	0	68.1	57.7	49.7
4-5 AM	2711	0.0	2999	2711	0	0.54	0	67.4	52.3	42.4
5-6 AM	2990	0.0	2999	2990	0	0.89	12	67.0	45.5	38.2
6-7 AM	3598	0.0	3000	3598	0	5.60	314	66.3	18.0	37.3
7-8 AM	4085	0.0	2999	3256	829	16.29+	870	63.0	10.3	37.3
8-9 AM	4369	0.0	2999	3027	1342	17.13+	920	61.0	10.1	37.3
9-10 AM	4548	0.0	3000	3017	1530	17.44+	941	59.8	10.1	37.3
10-11 AM	4592	0.0	3000	3005	1587	17.54+	948	59.5	10.0	37.3
11AM-NOON	4748	0.0	3000	3000	1747	17.57+	953	58.4	10.0	37.3
NOON-1PM	4839	0.0	3000	3000	1839	17.53+	953	57.8	10.0	37.3
1-2 PM	4686	0.0	3000	3000	1686	17.59+	953	58.9	10.0	37.3
2-3 PM	4466	0.0	3000	2973	1493	17.40+	937	60.4	10.1	37.3
3-4 PM	4054	0.0	3000	2974	1079	16.88+	900	63.2	10.2	37.3
4-5 PM	3550	0.0	3000	2996	555	16.85+	890	66.3	10.2	37.3
5-6 PM	3559	0.0	2999	2998	561	16.85+	890	66.3	10.2	37.3
6-7 PM	3523	0.0	3000	2999	525	16.85+	889	66.4	10.2	37.3
7-8 PM	3105	0.0	3000	2982	123	16.77+	884	66.9	10.2	37.3
8-9 PM	2440	0.0	2999	2440	0	11.67+	623	67.7	12.0	38.1
9-10 PM	2130	0.0	3000	2130	0	0.93	61	68.1	45.3	49.0
10-11 PM	1871	0.0	3000	1871	0	0.34	0	68.4	57.8	49.7
11PM-MID	1675	0.0	3000	1675	0	0.34	0	68.6	57.9	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	0.0262
MAIN ROUTE WITH WORKS	0.0171
'DIVERSION'	0.0115

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$271,890
CONGESTED HOURS PER DAY*	14

*Delays Exceeding User-Specified Maximum

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