

**USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY)  
CONTINUOUS (24 HOUR) 2 LANE 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	572	0.0	1500	572	0	0.54	0	70.0	55.0	43.2	
1-2 AM	330	0.0	1500	330	0	0.51	0	70.2	55.6	44.2	
2-3 AM	257	0.0	1500	257	0	0.50	0	70.2	55.8	44.5	
3-4 AM	267	0.0	1500	267	0	0.50	0	70.2	55.8	44.4	
4-5 AM	390	0.0	1500	390	0	0.52	0	70.2	55.5	43.9	
5-6 AM	713	0.0	1500	713	0	0.56	0	69.9	54.5	42.7	
6-7 AM	1183	0.0	1499	1183	0	0.71	0	69.2	51.0	38.5	
7-8 AM	1638	0.0	1499	1638	0	2.06	35	68.7	33.9	30.8	
8-9 AM	2251	0.0	1500	1795	456	13.75+	346	67.9	9.1	30.8	
9-10 AM	2916	0.0	1499	1492	1424	16.68+	409	67.1	7.9	30.8	
10-11 AM	3385	0.0	1499	1500	1885	16.73+	411	66.5	7.9	30.8	
11AM-NOON	3528	0.0	1500	1500	2028	16.72+	411	66.3	7.9	30.8	
NOON-1PM	3490	0.0	1500	1500	1990	16.72+	411	66.4	7.9	30.8	
1-2 PM	3358	0.0	1500	1500	1858	16.73+	411	66.6	7.9	30.8	
2-3 PM	3502	0.0	1500	1500	2002	16.72+	411	66.4	7.9	30.8	
3-4 PM	3679	0.0	1500	1500	2179	16.70+	411	65.7	7.9	30.8	
4-5 PM	3367	0.0	1500	1499	1868	16.73+	411	66.6	7.9	30.8	
5-6 PM	2678	0.0	1500	1496	1182	16.64+	408	67.4	7.9	30.8	
6-7 PM	2285	0.0	1500	1499	786	16.62+	407	67.9	7.9	30.8	
7-8 PM	1904	0.0	1500	1499	405	16.62+	406	68.4	7.9	30.8	
8-9 PM	1576	0.0	1500	1479	97	16.54+	404	68.7	8.0	30.8	
9-10 PM	1467	0.0	1499	1467	0	16.09+	392	68.9	8.1	30.8	
10-11 PM	1242	0.0	1499	1242	0	10.09	253	69.2	11.5	31.8	
11PM-MID	925	0.0	1500	925	0	0.84	11	69.6	48.8	41.9	

+ 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

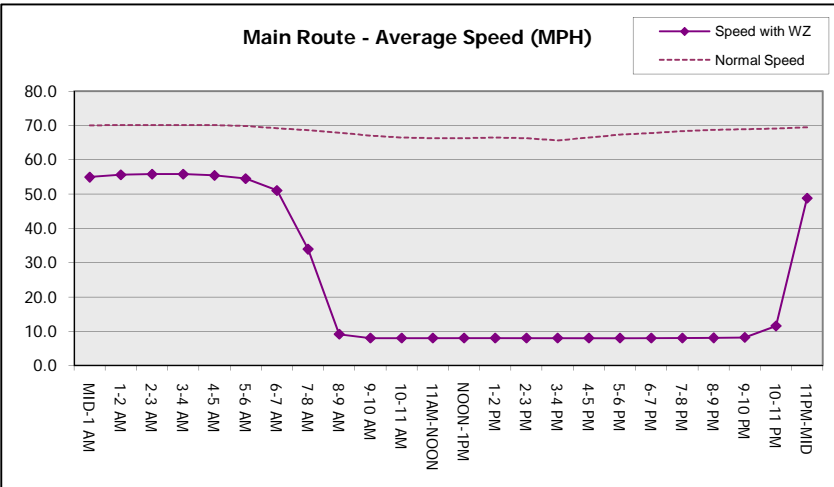
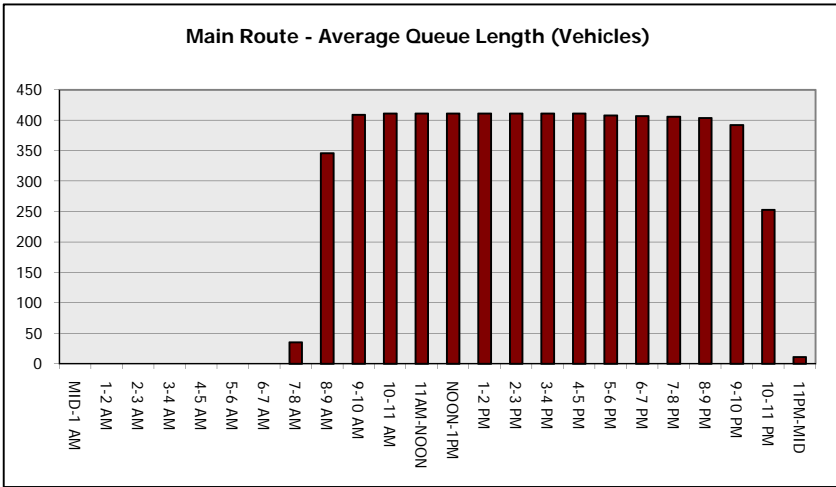
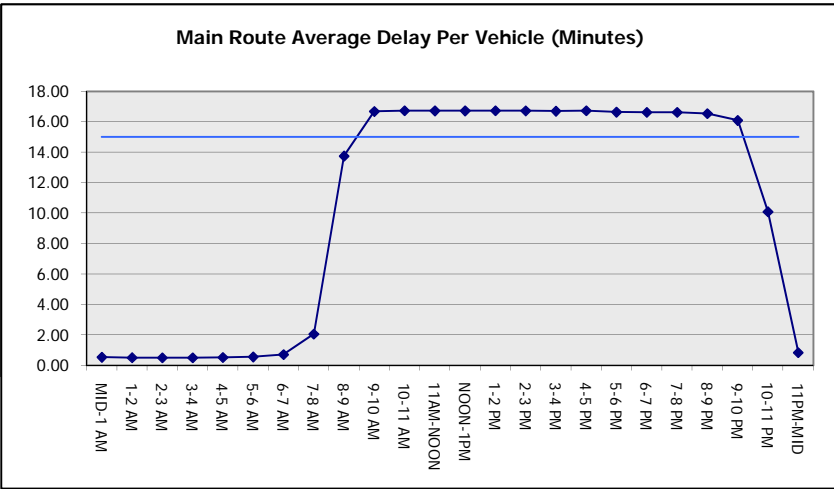
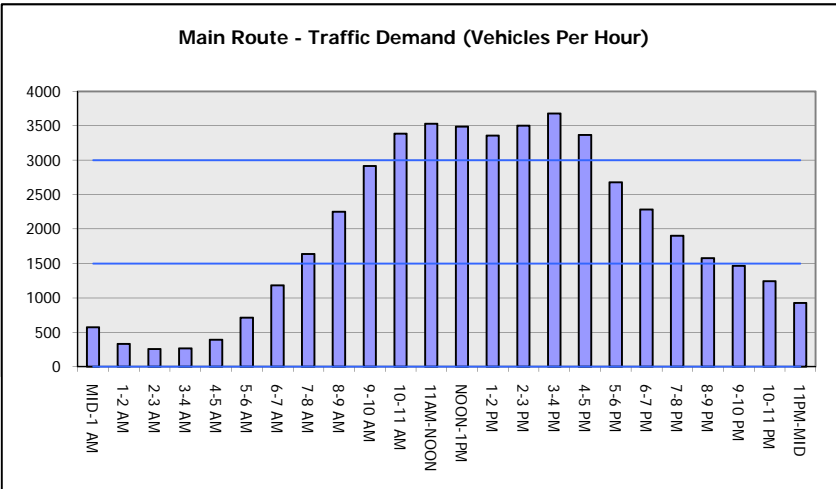
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0172
MAIN ROUTE WITH WORKS	0.0086
'DIVERSION'	0.0154
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$184,120
CONGESTED HOURS PER DAY*	14

\*Delays Exceeding User-Specified Maximum

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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY SOUTHBOUND DIRECTION**



<b>USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY)</b> <b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**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	978	0.0	1500	978	0	0.65	2	69.5	52.4	41.7
1-2 AM	544	0.0	1500	544	0	0.54	0	70.0	55.0	43.3
2-3 AM	432	0.0	1500	432	0	0.53	0	70.2	55.4	43.8
3-4 AM	321	0.0	1500	321	0	0.51	0	70.2	55.6	44.2
4-5 AM	402	0.0	1500	402	0	0.52	0	70.2	55.5	43.9
5-6 AM	779	0.0	1500	779	0	0.56	0	69.7	54.3	42.5
6-7 AM	1359	0.0	1499	1359	0	0.90	0	69.1	47.5	34.3
7-8 AM	1796	0.0	1499	1796	0	4.56	119	68.5	21.0	30.8
8-9 AM	2283	0.0	1499	1589	694	16.26+	398	67.9	8.1	30.8
9-10 AM	2700	0.0	1500	1507	1194	16.64+	408	67.4	7.9	30.8
10-11 AM	3066	0.0	1500	1506	1560	16.71+	410	66.9	7.9	30.8
11AM-NOON	3245	0.0	1500	1501	1744	16.73+	411	66.7	7.9	30.8
NOON-1PM	3613	0.0	1500	1500	2113	16.71+	411	66.2	7.9	30.8
1-2 PM	3586	0.0	1500	1500	2086	16.72+	411	66.3	7.9	30.8
2-3 PM	3623	0.0	1500	1500	2123	16.71+	411	66.1	7.9	30.8
3-4 PM	3670	0.0	1500	1500	2170	16.70+	411	65.8	7.9	30.8
4-5 PM	3173	0.0	1500	1502	1670	16.73+	410	66.8	7.9	30.8
5-6 PM	3017	0.0	1500	1503	1514	16.70+	410	67.0	7.9	30.8
6-7 PM	2405	0.0	1500	1500	905	16.61+	407	67.8	7.9	30.8
7-8 PM	2112	0.0	1500	1500	612	16.62+	406	68.1	7.9	30.8
8-9 PM	2031	0.0	1500	1500	531	16.62+	406	68.2	7.9	30.8
9-10 PM	2156	0.0	1500	1500	655	16.62+	406	68.1	7.9	30.8
10-11 PM	1828	0.0	1500	1500	328	16.62+	406	68.4	7.9	30.8
11PM-MID	1140	0.0	1499	1140	0	9.11	251	69.3	12.5	33.8

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

MAIN ROUTE WITHOUT WORKS	0.0184
MAIN ROUTE WITH WORKS	0.0091
'DIVERSION'	0.0169

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$200,969
CONGESTED HOURS PER DAY*	15

\*Delays Exceeding User-Specified Maximum

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