

**USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY)
OFF-PEAK DAY 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	879	0.0	OFF	879	0	0.00	0	69.6	69.6	69.6	
1-2 AM	510	0.0	OFF	510	0	0.00	0	70.1	70.1	70.1	
2-3 AM	459	0.0	OFF	459	0	0.00	0	70.2	70.2	70.2	
3-4 AM	377	0.0	OFF	377	0	0.00	0	70.2	70.2	70.2	
4-5 AM	467	0.0	OFF	467	0	0.00	0	70.2	70.2	70.2	
5-6 AM	935	0.0	OFF	935	0	0.00	0	69.6	69.6	69.6	
6-7 AM	1622	0.0	OFF	1622	0	0.00	0	68.7	68.7	68.7	
7-8 AM	2205	0.0	OFF	2205	0	0.00	0	68.0	68.0	68.0	
8-9 AM	2701	0.0	1499	2006	695	13.70+	341	67.4	8.3	31.2	
9-10 AM	3404	0.0	1499	1474	1930	17.12+	421	66.5	7.3	30.8	
10-11 AM	4095	0.0	1499	1500	2595	17.08+	423	62.9	7.3	30.8	
11AM-NOON	4560	0.0	1500	1500	3060	16.96+	423	59.7	7.3	30.8	
NOON-1PM	4846	0.0	1500	1500	3346	16.88+	423	57.8	7.3	30.8	
1-2 PM	4488	0.0	1500	1500	2988	16.98+	423	60.2	7.3	30.8	
2-3 PM	4525	0.0	1500	1500	3025	16.97+	423	59.9	7.3	30.8	
3-4 PM	4527	0.0	1500	1500	3027	16.97+	423	59.9	7.3	30.8	
4-5 PM	4309	0.0	1500	1500	2809	17.03+	423	61.4	7.3	30.8	
5-6 PM	3950	0.0	1500	1500	2450	17.12+	423	63.9	7.3	30.8	
6-7 PM	3310	0.0	OFF	3310	0	0.47	42	66.6	52.2	52.2	
7-8 PM	2747	0.0	OFF	2747	0	0.00	0	67.3	67.3	67.3	
8-9 PM	2379	0.0	OFF	2379	0	0.00	0	67.8	67.8	67.8	
9-10 PM	2081	0.0	OFF	2081	0	0.00	0	68.1	68.1	68.1	
10-11 PM	1870	0.0	OFF	1870	0	0.00	0	68.4	68.4	68.4	
11PM-MID	1473	0.0	OFF	1473	0	0.00	0	68.9	68.9	68.9	

"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

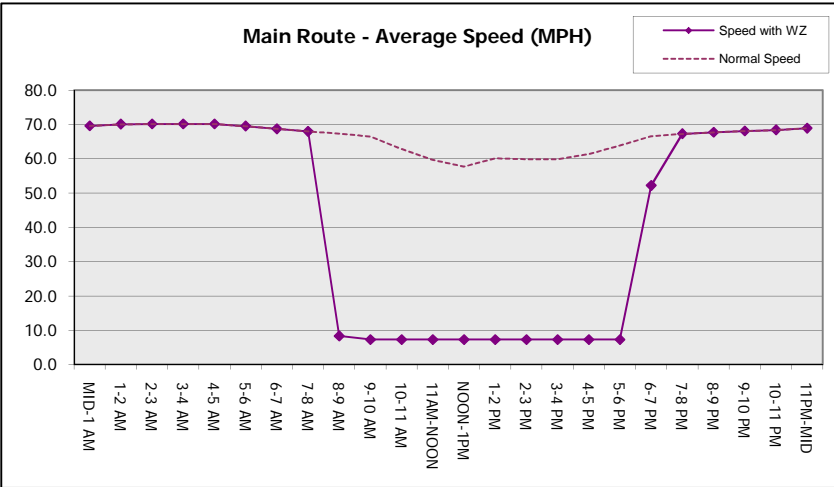
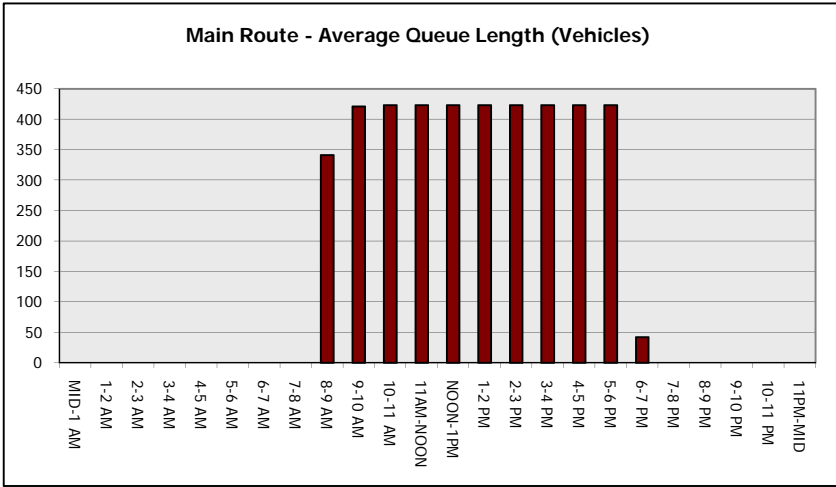
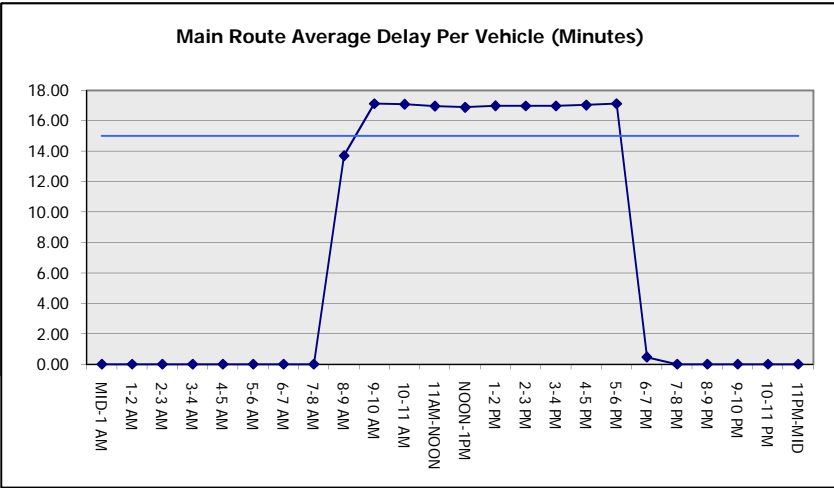
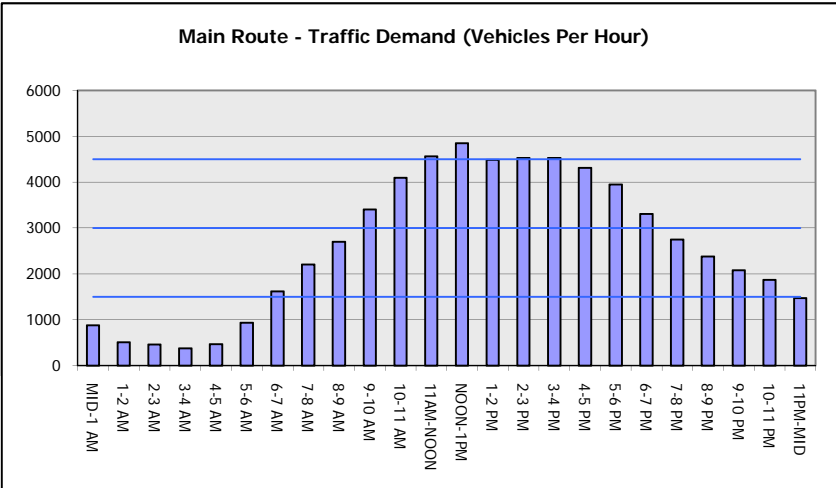
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0190
MAIN ROUTE WITH WORKS	0.0101
'DIVERSION'	0.0182
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$190,958
CONGESTED HOURS PER DAY*	10

*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	1388	0.0	OFF	1388	0	0.00	0	69.0	69.0	69.0
1-2 AM	924	0.0	OFF	924	0	0.00	0	69.6	69.6	69.6
2-3 AM	843	0.0	OFF	843	0	0.00	0	69.7	69.7	69.7
3-4 AM	639	0.0	OFF	639	0	0.00	0	69.9	69.9	69.9
4-5 AM	853	0.0	OFF	853	0	0.00	0	69.7	69.7	69.7
5-6 AM	1292	0.0	OFF	1292	0	0.00	0	69.1	69.1	69.1
6-7 AM	1945	0.0	OFF	1945	0	0.00	0	68.3	68.3	68.3
7-8 AM	2575	0.0	OFF	2575	0	0.00	0	67.6	67.6	67.6
8-9 AM	3044	0.0	1499	1663	1381	15.34+	385	66.9	7.8	36.0
9-10 AM	3432	0.0	1499	1810	1622	16.32+	404	66.4	7.5	30.8
10-11 AM	3797	0.0	1499	1500	2298	17.15+	423	64.9	7.3	30.8
11AM-NOON	4257	0.0	1500	1500	2757	17.04+	423	61.8	7.3	30.8
NOON-1PM	4508	0.0	1500	1500	3008	16.98+	423	60.1	7.3	30.8
1-2 PM	4458	0.0	1500	1500	2958	16.99+	423	60.4	7.3	30.8
2-3 PM	4524	0.0	1500	1500	3024	16.97+	423	59.9	7.3	30.8
3-4 PM	4507	0.0	1500	1500	3007	16.98+	423	60.1	7.3	30.8
4-5 PM	4104	0.0	1500	1500	2604	17.08+	423	62.8	7.3	30.8
5-6 PM	3828	0.0	1500	1500	2328	17.15+	423	64.7	7.3	30.8
6-7 PM	3234	0.0	OFF	3234	0	0.44	40	66.7	53.2	53.2
7-8 PM	2802	0.0	OFF	2802	0	0.00	0	67.3	67.3	67.3
8-9 PM	2800	0.0	OFF	2800	0	0.00	0	67.3	67.3	67.3
9-10 PM	2904	0.0	OFF	2904	0	0.00	0	67.1	67.1	67.1
10-11 PM	2605	0.0	OFF	2605	0	0.00	0	67.5	67.5	67.5
11PM-MID	2091	0.0	OFF	2091	0	0.00	0	68.1	68.1	68.1

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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	0.0204
MAIN ROUTE WITH WORKS	0.0118
'DIVERSION'	0.0175

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$187,225
CONGESTED HOURS PER DAY*	10

*Delays Exceeding User-Specified Maximum

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