

USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY Analyzed for 2009 Construction Season
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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	491	0.0	1500	491	0	0.53	0	70.1	52.8	43.5	
1-2 AM	538	0.0	1500	538	0	0.54	0	70.0	52.7	43.3	
2-3 AM	855	0.0	1500	855	0	0.57	0	69.7	51.7	42.2	
3-4 AM	1350	0.0	1499	1350	0	0.89	0	69.1	44.8	34.5	
4-5 AM	1854	0.0	1499	1854	0	5.05	141	68.4	17.2	30.8	
5-6 AM	2497	0.0	1499	1520	977	16.99+	417	67.6	7.3	30.8	
6-7 AM	3094	0.0	1500	1521	1573	17.11+	420	66.9	7.3	30.8	
7-8 AM	3628	0.0	1499	1500	2128	17.19+	423	66.1	7.3	30.8	
8-9 AM	4231	0.0	OFF	4231	0	0.53	44	62.0	48.2	48.2	
9-10 AM	4429	0.0	OFF	4429	0	0.00	0	60.6	60.6	60.6	
10-11 AM	4552	0.0	OFF	4552	0	0.00	0	59.7	59.7	59.7	
11AM-NOON	4671	0.0	OFF	4671	0	0.00	0	58.9	58.9	58.9	
NOON-1PM	4753	0.0	OFF	4753	0	0.00	0	58.4	58.4	58.4	
1-2 PM	4507	0.0	OFF	4507	0	0.00	0	60.1	60.1	60.1	
2-3 PM	4071	0.0	OFF	4071	0	0.00	0	63.0	63.0	63.0	
3-4 PM	3626	0.0	OFF	3626	0	0.00	0	66.1	66.1	66.1	
4-5 PM	3057	0.0	OFF	3057	0	0.00	0	66.9	66.9	66.9	
5-6 PM	2711	0.0	OFF	2711	0	0.00	0	67.4	67.4	67.4	
6-7 PM	2484	0.0	1499	1929	555	13.63+	337	67.6	8.3	31.7	
7-8 PM	1956	0.0	1499	1499	457	16.91+	414	68.3	7.3	30.8	
8-9 PM	1441	0.0	1499	1401	40	15.94+	389	68.9	7.6	30.8	
9-10 PM	1155	0.0	1499	1155	0	5.64	173	69.3	16.0	34.2	
10-11 PM	923	0.0	1500	923	0	0.58	0	69.6	51.4	41.9	
11PM-MID	671	0.0	1500	671	0	0.55	0	69.9	52.2	42.8	

"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

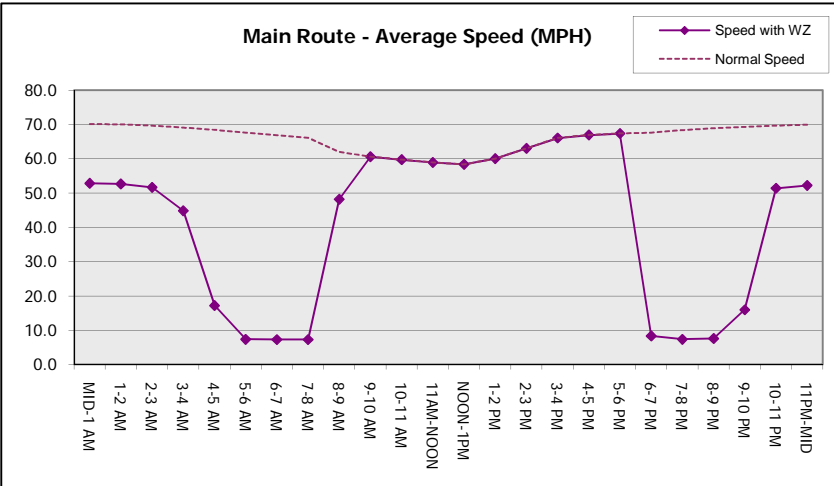
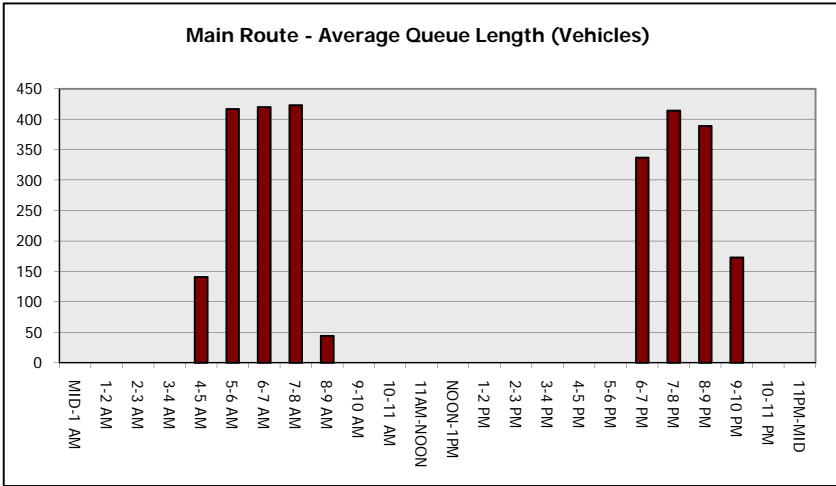
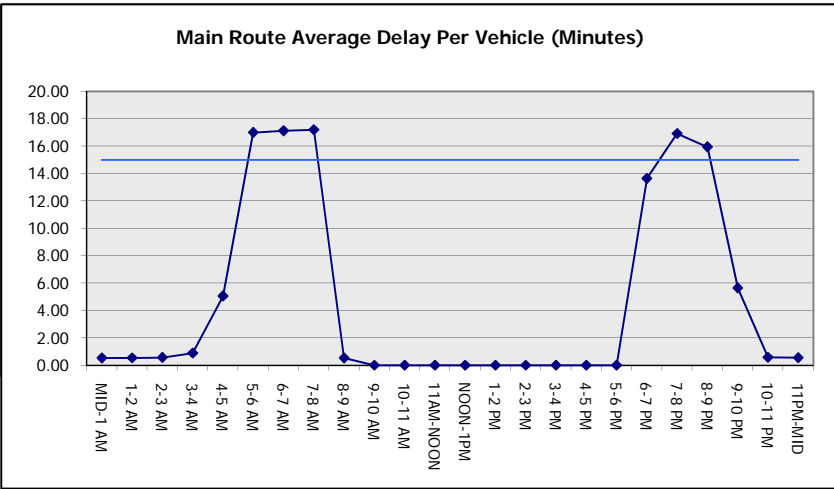
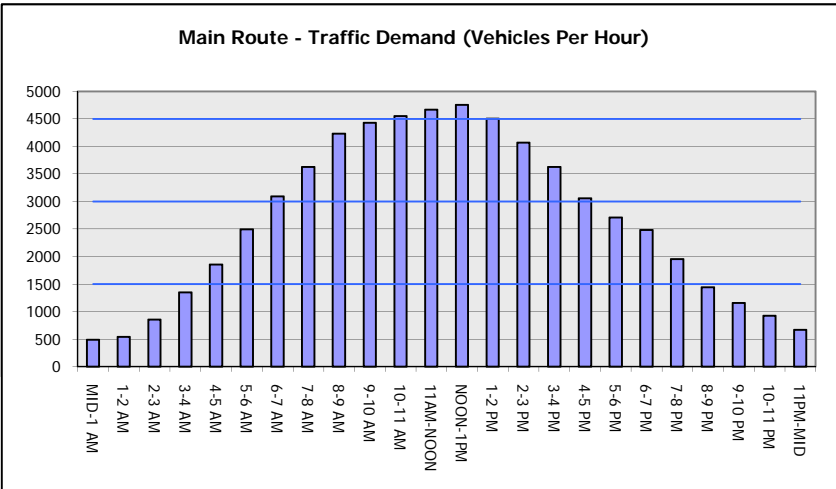
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0192
MAIN ROUTE WITH WORKS	0.0164
'DIVERSION'	0.0040
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$63,657
CONGESTED HOURS PER DAY*	6

*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	1443	0.0	1500	1443	0	15.64+	381	68.9	7.7	30.8
1-2 AM	1479	0.0	1500	1479	0	13.44	323	68.9	8.4	30.8
2-3 AM	1862	0.0	1500	1615	248	16.39+	401	68.4	7.5	30.8
3-4 AM	2165	0.0	1499	1498	667	16.91+	414	68.1	7.3	30.8
4-5 AM	2705	0.0	1499	1489	1216	16.99+	417	67.4	7.3	30.8
5-6 AM	2983	0.0	1499	1496	1487	17.12+	420	67.0	7.3	30.8
6-7 AM	3590	0.0	1499	1500	2090	17.20+	423	66.3	7.3	30.8
7-8 AM	4076	0.0	1500	1500	2576	17.09+	423	63.0	7.3	30.8
8-9 AM	4360	0.0	OFF	4360	0	0.64	54	61.0	45.5	45.5
9-10 AM	4539	0.0	OFF	4539	0	0.00	0	59.9	59.9	59.9
10-11 AM	4582	0.0	OFF	4582	0	0.00	0	59.6	59.6	59.6
11AM-NOON	4737	0.0	OFF	4737	0	0.00	0	58.5	58.5	58.5
NOON-1PM	4829	0.0	OFF	4829	0	0.00	0	57.9	57.9	57.9
1-2 PM	4676	0.0	OFF	4676	0	0.00	0	58.9	58.9	58.9
2-3 PM	4457	0.0	OFF	4457	0	0.00	0	60.4	60.4	60.4
3-4 PM	4046	0.0	OFF	4046	0	0.00	0	63.2	63.2	63.2
4-5 PM	3543	0.0	OFF	3543	0	0.00	0	66.3	66.3	66.3
5-6 PM	3551	0.0	OFF	3551	0	0.00	0	66.3	66.3	66.3
6-7 PM	3516	0.0	1499	1579	1938	17.32+	434	66.4	7.3	36.5
7-8 PM	3099	0.0	1499	1697	1402	15.15+	392	66.9	7.9	35.5
8-9 PM	2436	0.0	1499	1596	840	16.66+	408	67.7	7.4	30.8
9-10 PM	2127	0.0	1500	1504	623	16.91+	414	68.1	7.3	30.8
10-11 PM	1867	0.0	1500	1503	364	16.91+	414	68.4	7.3	30.8
11PM-MID	1672	0.0	1500	1525	147	16.79+	411	68.7	7.4	30.8

"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	0.0237
MAIN ROUTE WITH WORKS	0.0182
'DIVERSION'	0.0095

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$138,454
CONGESTED HOURS PER DAY*	13

*Delays Exceeding User-Specified Maximum

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