

IH 94: CTH Y/LAYTON AVE TO CTH ZZ/COLLEGE AVE (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY WESTBOUND 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	1387	0.0	1500	1387	0	15.39+	378	70.2	7.9	32.5	
1-2 AM	875	0.0	1499	875	0	1.68	77	70.2	35.3	43.7	
2-3 AM	706	0.0	1500	706	0	0.46	0	70.2	55.4	46.0	
3-4 AM	649	0.0	1500	649	0	0.45	0	70.2	55.6	46.3	
4-5 AM	685	0.0	1500	685	0	0.45	0	70.2	55.5	46.1	
5-6 AM	1337	0.0	1499	1337	0	0.81	1	70.2	47.7	37.4	
6-7 AM	2059	0.0	1500	2016	42	7.96+	236	69.5	13.1	32.4	
7-8 AM	2616	0.0	1500	1420	1195	16.66+	411	68.8	7.6	33.0	
8-9 AM	3725	0.0	OFF	3725	0	0.51	42	66.7	51.9	51.9	
9-10 AM	4361	0.0	OFF	4361	0	0.00	0	62.3	62.3	62.3	
10-11 AM	4888	0.0	OFF	4888	0	0.00	0	58.7	58.7	58.7	
11AM-NOON	5072	0.0	OFF	5072	0	0.00	0	57.5	57.5	57.5	
NOON-1PM	5301	0.0	OFF	5301	0	0.00	0	56.0	56.0	56.0	
1-2 PM	5395	0.0	OFF	5395	0	0.00	0	55.3	55.3	55.3	
2-3 PM	5250	0.0	OFF	5250	0	0.00	0	56.3	56.3	56.3	
3-4 PM	5143	0.0	OFF	5143	0	0.00	0	57.0	57.0	57.0	
4-5 PM	4974	0.0	OFF	4974	0	0.00	0	58.2	58.2	58.2	
5-6 PM	4732	0.0	OFF	4732	0	0.00	0	59.8	59.8	59.8	
6-7 PM	4016	0.0	1499	1574	2441	17.04+	430	64.7	7.5	39.0	
7-8 PM	3645	0.0	1499	1772	1873	15.15+	392	67.3	8.1	37.6	
8-9 PM	3126	0.0	1499	1532	1594	16.89+	416	68.1	7.5	32.5	
9-10 PM	2885	0.0	1500	1521	1364	16.85+	415	68.4	7.5	32.5	
10-11 PM	2444	0.0	1500	1502	942	16.74+	412	69.0	7.6	32.5	
11PM-MID	1913	0.0	1500	1501	412	16.73+	411	69.7	7.6	32.5	

"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

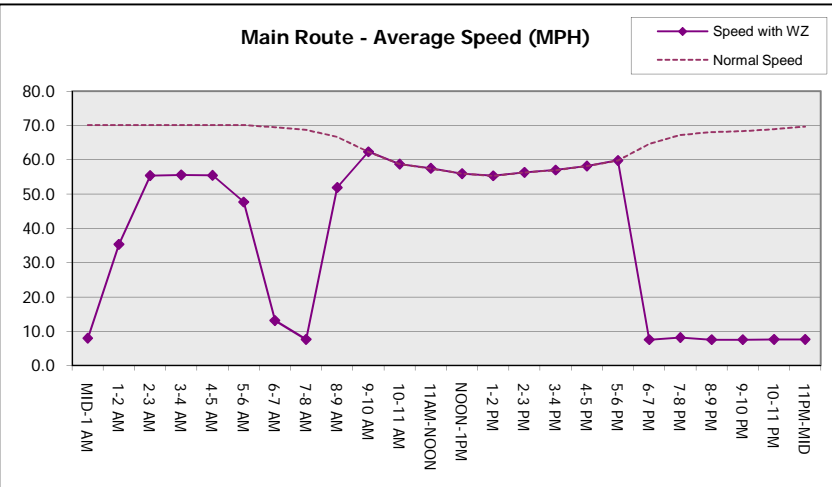
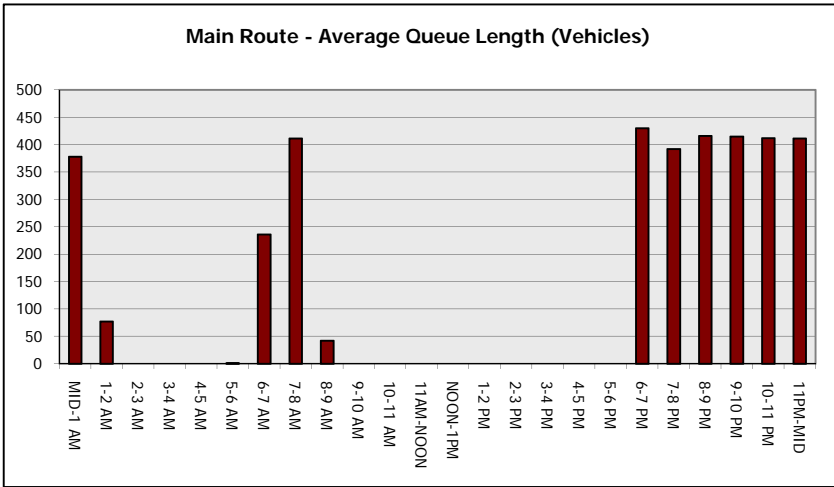
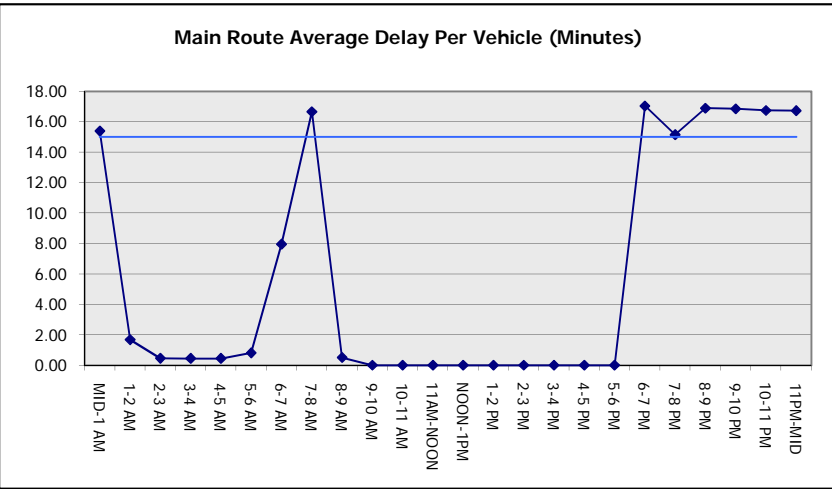
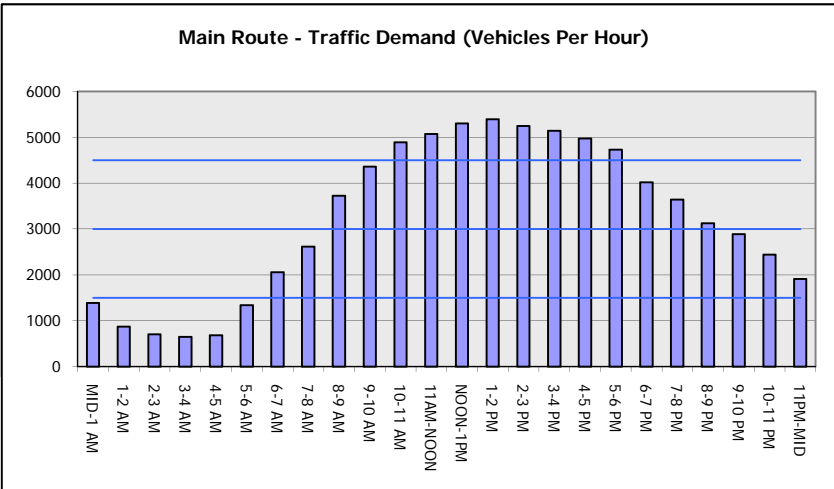
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0246
MAIN ROUTE WITH WORKS	0.0202
'DIVERSION'	0.0073
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$96,438
CONGESTED HOURS PER DAY*	9

*Delays Exceeding User-Specified Maximum

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AUGUST
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY WESTBOUND DIRECTION



IH 94: CTH Y/LAYTON AVE TO CTH ZZ/COLLEGE AVE (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY EASTBOUND 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	1500	0.0	1500	1443	57	15.75+	386	70.2	7.8	32.5
1-2 AM	930	0.0	1499	930	0	2.20	108	70.2	30.9	42.0
2-3 AM	895	0.0	1500	895	0	0.48	0	70.2	54.8	45.2
3-4 AM	766	0.0	1500	766	0	0.46	0	70.2	55.2	45.8
4-5 AM	1052	0.0	1499	1052	0	0.53	0	70.2	53.5	43.5
5-6 AM	1763	0.0	1499	1763	0	4.06	105	69.9	20.7	32.5
6-7 AM	1891	0.0	1499	1665	226	15.36+	378	69.7	7.9	32.5
7-8 AM	2245	0.0	1499	1499	746	16.73+	411	69.2	7.6	32.5
8-9 AM	3112	0.0	OFF	3112	0	0.33	31	68.2	57.4	57.4
9-10 AM	3937	0.0	OFF	3937	0	0.00	0	65.3	65.3	65.3
10-11 AM	4476	0.0	OFF	4476	0	0.00	0	61.6	61.6	61.6
11AM-NOON	4970	0.0	OFF	4970	0	0.00	0	58.2	58.2	58.2
NOON-1PM	5207	0.0	OFF	5207	0	0.00	0	56.6	56.6	56.6
1-2 PM	4996	0.0	OFF	4996	0	0.00	0	58.0	58.0	58.0
2-3 PM	5292	0.0	OFF	5292	0	0.00	0	56.0	56.0	56.0
3-4 PM	5121	0.0	OFF	5121	0	0.00	0	57.2	57.2	57.2
4-5 PM	4861	0.0	OFF	4861	0	0.00	0	58.9	58.9	58.9
5-6 PM	4444	0.0	OFF	4444	0	0.00	0	61.8	61.8	61.8
6-7 PM	3856	0.0	1499	1574	2282	17.06+	430	65.8	7.5	39.0
7-8 PM	3422	0.0	1499	1736	1685	15.04+	390	67.8	8.2	37.6
8-9 PM	3273	0.0	1499	1534	1740	16.82+	416	68.0	7.5	33.6
9-10 PM	3420	0.0	1500	1521	1899	16.93+	418	67.8	7.5	32.5
10-11 PM	2713	0.0	1500	1521	1193	16.82+	414	68.7	7.5	32.4
11PM-MID	2041	0.0	1500	1502	539	16.73+	411	69.5	7.6	32.5

"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	0.0243
MAIN ROUTE WITH WORKS	0.0197
'DIVERSION'	0.0076

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$103,233
CONGESTED HOURS PER DAY*	9

*Delays Exceeding User-Specified Maximum

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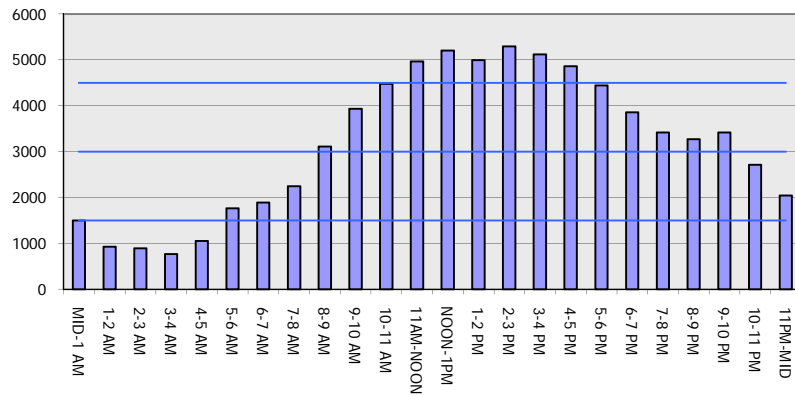
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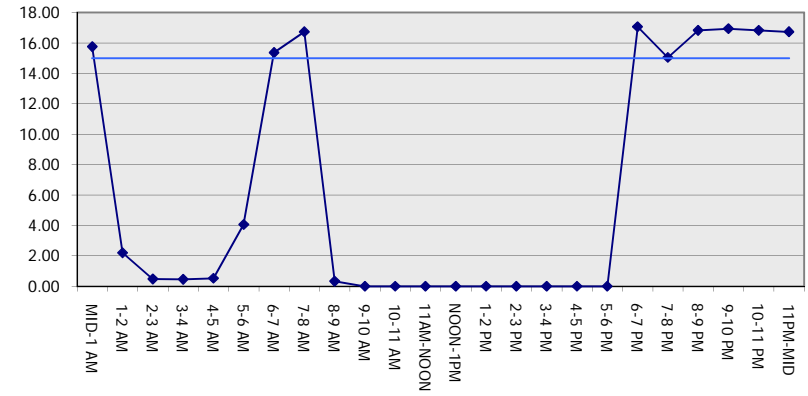
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY EASTBOUND DIRECTION

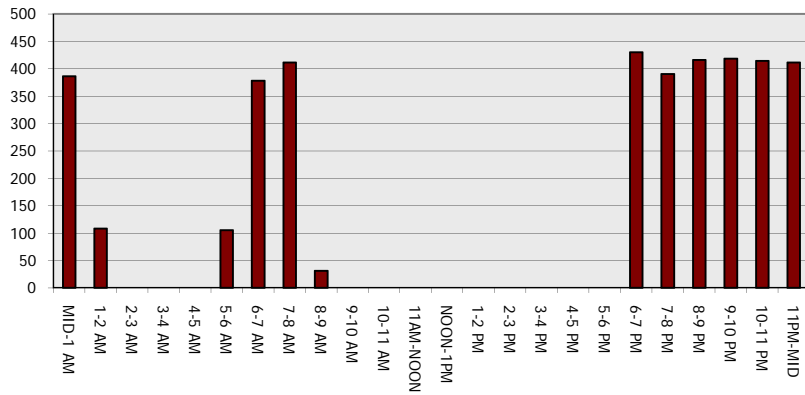
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

