

IH 94: CTH ZZ/COLLEGE AVE TO CTH BB/RAWSON AVE (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	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	989	0.0	1499	989	0	2.76	170	70.2	18.8	39.4	
1-2 AM	557	0.0	1500	557	0	0.22	0	70.2	55.7	46.6	
2-3 AM	491	0.0	1500	491	0	0.22	0	70.2	55.9	46.9	
3-4 AM	450	0.0	1500	450	0	0.22	0	70.2	56.1	47.1	
4-5 AM	562	0.0	1500	562	0	0.22	0	70.2	55.7	46.6	
5-6 AM	932	0.0	1499	932	0	0.25	0	70.2	54.5	45.1	
6-7 AM	1471	0.0	1499	1471	0	0.79	13	70.2	36.4	34.6	
7-8 AM	2026	0.0	1500	1934	91	9.30+	263	69.5	7.5	32.4	
8-9 AM	2665	0.0	OFF	2665	0	0.37	35	68.7	48.4	48.4	
9-10 AM	3010	0.0	OFF	3010	0	0.00	0	68.3	68.3	68.3	
10-11 AM	3296	0.0	OFF	3296	0	0.00	0	67.9	67.9	67.9	
11AM-NOON	3563	0.0	OFF	3563	0	0.00	0	67.6	67.6	67.6	
NOON-1PM	3696	0.0	OFF	3696	0	0.00	0	66.9	66.9	66.9	
1-2 PM	3546	0.0	OFF	3546	0	0.00	0	67.6	67.6	67.6	
2-3 PM	3608	0.0	OFF	3608	0	0.00	0	67.5	67.5	67.5	
3-4 PM	3717	0.0	OFF	3717	0	0.00	0	66.8	66.8	66.8	
4-5 PM	3677	0.0	OFF	3677	0	0.00	0	67.1	67.1	67.1	
5-6 PM	3732	0.0	OFF	3732	0	0.00	0	66.7	66.7	66.7	
6-7 PM	3339	0.0	1499	1589	1750	17.22+	442	67.9	5.4	38.9	
7-8 PM	2712	0.0	1499	1671	1042	15.06+	399	68.7	5.8	37.6	
8-9 PM	2180	0.0	1499	1687	493	15.88+	403	69.3	5.5	32.5	
9-10 PM	2080	0.0	1499	1497	584	16.57+	420	69.4	5.5	32.5	
10-11 PM	1873	0.0	1499	1497	376	16.56+	419	69.7	5.5	32.5	
11PM-MID	1522	0.0	1499	1442	81	16.20+	410	70.2	5.5	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	0.0089
MAIN ROUTE WITH WORKS	0.0063
'DIVERSION'	0.0016
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$63,610
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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NIGHTTIME 2 LANE CLOSURE
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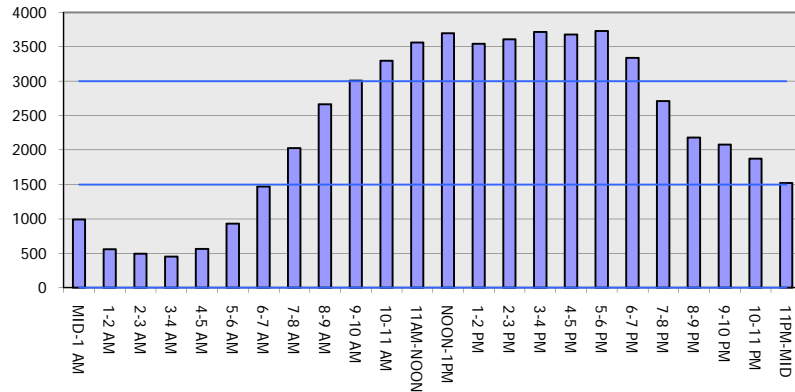
OCTOBER

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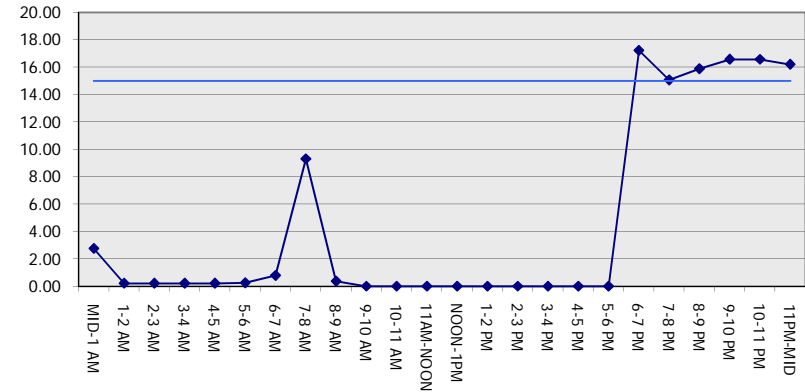
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY WESTBOUND DIRECTION

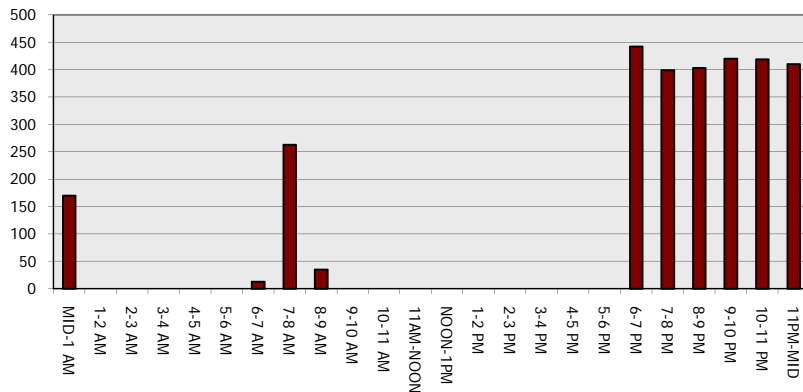
Main Route - Traffic Demand (Vehicles Per Hour)



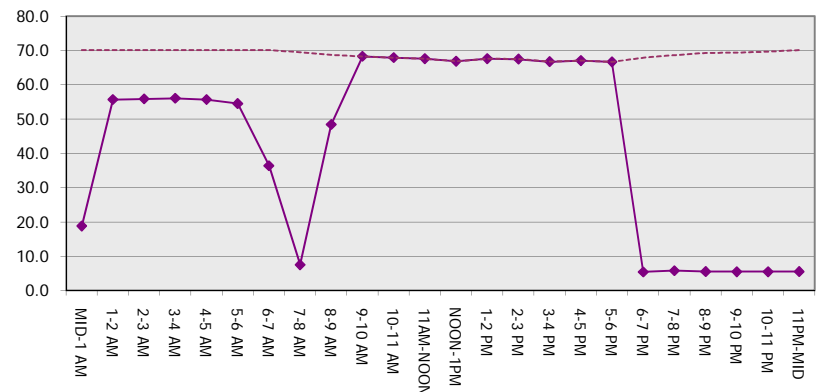
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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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	945	0.0	1499	945	0	1.22	86	70.2	29.9	42.1
1-2 AM	628	0.0	1500	628	0	0.23	0	70.2	55.5	46.3
2-3 AM	596	0.0	1500	596	0	0.22	0	70.2	55.6	46.5
3-4 AM	550	0.0	1500	550	0	0.22	0	70.2	55.7	46.7
4-5 AM	692	0.0	1500	692	0	0.23	0	70.2	55.3	46.1
5-6 AM	1177	0.0	1499	1177	0	0.31	0	70.2	51.5	41.3
6-7 AM	1605	0.0	1499	1605	0	1.30	31	70.0	27.8	32.5
7-8 AM	1858	0.0	1500	1858	0	9.60	257	69.7	7.3	32.5
8-9 AM	2448	0.0	OFF	2448	0	0.31	30	69.0	50.9	50.9
9-10 AM	3075	0.0	OFF	3075	0	0.00	0	68.2	68.2	68.2
10-11 AM	3341	0.0	OFF	3341	0	0.00	0	67.9	67.9	67.9
11AM-NOON	3708	0.0	OFF	3708	0	0.00	0	66.8	66.8	66.8
NOON-1PM	3864	0.0	OFF	3864	0	0.00	0	65.8	65.8	65.8
1-2 PM	3468	0.0	OFF	3468	0	0.00	0	67.8	67.8	67.8
2-3 PM	3745	0.0	OFF	3745	0	0.00	0	66.6	66.6	66.6
3-4 PM	3766	0.0	OFF	3766	0	0.00	0	66.4	66.4	66.4
4-5 PM	3515	0.0	OFF	3515	0	0.00	0	67.7	67.7	67.7
5-6 PM	3350	0.0	OFF	3350	0	0.00	0	67.9	67.9	67.9
6-7 PM	2888	0.0	1499	1617	1271	15.85+	406	68.4	5.6	38.7
7-8 PM	2398	0.0	1499	1699	699	14.80+	388	69.1	5.8	35.7
8-9 PM	2025	0.0	1499	1586	439	16.22+	411	69.6	5.5	32.5
9-10 PM	1921	0.0	1500	1502	419	16.56+	419	69.7	5.5	32.5
10-11 PM	1831	0.0	1500	1502	329	16.55+	419	69.7	5.5	32.5
11PM-MID	1377	0.0	1500	1377	0	14.69+	372	70.2	5.8	32.5

"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	0.0087
MAIN ROUTE WITH WORKS	0.0063
'DIVERSION'	0.0012

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$56,338
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY EASTBOUND DIRECTION

