

STH 29: 40TH ST TO CTH T (CHIPPEWA COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	30	0.0	1500	30	0	0.50	0	63.8	50.9	41.9
1-2 AM	31	0.0	1500	31	0	0.50	0	63.8	50.9	41.9
2-3 AM	45	0.0	1500	45	0	0.50	0	63.8	50.9	41.9
3-4 AM	62	0.0	1500	62	0	0.50	0	63.8	50.8	41.8
4-5 AM	119	0.0	1500	119	0	0.51	0	63.7	50.6	41.6
5-6 AM	213	0.0	1500	213	0	0.52	0	63.5	50.4	41.2
6-7 AM	296	0.0	1500	296	0	0.53	0	63.3	50.1	41.0
7-8 AM	337	0.0	1500	337	0	0.53	0	63.3	49.9	40.9
8-9 AM	279	0.0	1500	279	0	0.53	0	63.4	50.1	41.0
9-10 AM	279	0.0	1500	279	0	0.53	0	63.4	50.1	41.0
10-11 AM	270	0.0	1500	270	0	0.52	0	63.4	50.2	41.0
11AM-NOON	272	0.0	1500	272	0	0.52	0	63.4	50.2	41.0
NOON-1PM	287	0.0	1500	287	0	0.53	0	63.3	50.1	41.0
1-2 PM	330	0.0	1500	330	0	0.53	0	63.3	50.0	40.9
2-3 PM	339	0.0	1500	339	0	0.53	0	63.3	49.9	40.8
3-4 PM	385	0.0	1500	385	0	0.54	0	63.2	49.8	40.7
4-5 PM	435	0.0	1500	435	0	0.54	0	63.1	49.7	40.5
5-6 PM	383	0.0	1500	383	0	0.54	0	63.2	49.8	40.7
6-7 PM	253	0.0	1500	253	0	0.52	0	63.4	50.2	41.1
7-8 PM	194	0.0	1500	194	0	0.52	0	63.5	50.4	41.3
8-9 PM	156	0.0	1500	156	0	0.51	0	63.6	50.5	41.4
9-10 PM	117	0.0	1500	117	0	0.51	0	63.7	50.6	41.6
10-11 PM	82	0.0	1500	82	0	0.51	0	63.8	50.7	41.7
11PM-MID	58	0.0	1500	58	0	0.50	0	63.8	50.8	41.8

----- 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	0.0018
MAIN ROUTE WITH WORKS	0.0024
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$554
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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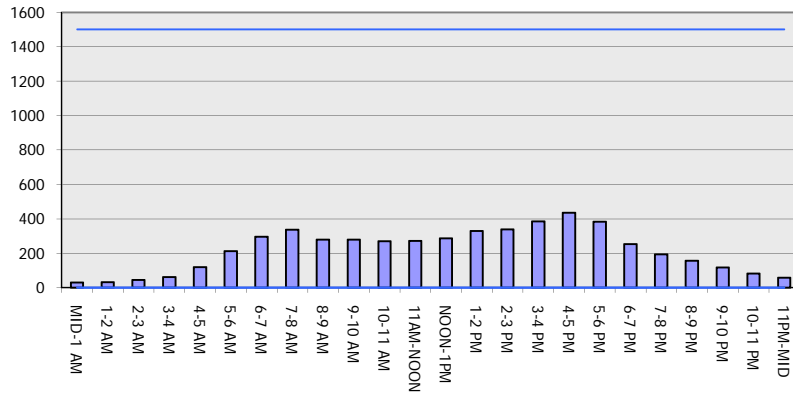
OCTOBER

Analyzed for 2009
Construction Season

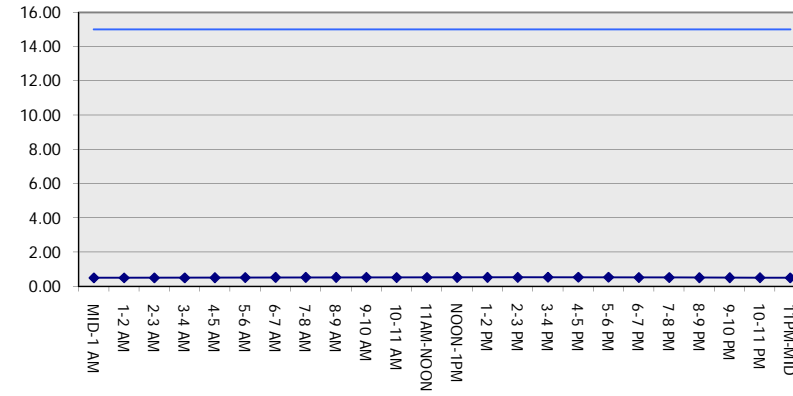
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR SOUTHBOUND DIRECTION

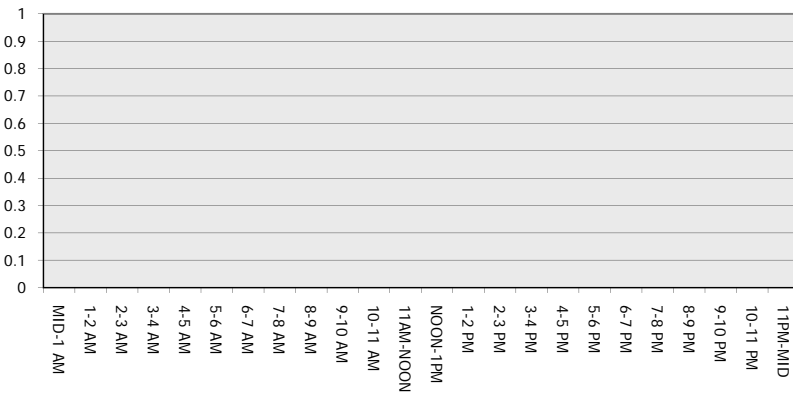
Main Route - Traffic Demand (Vehicles Per Hour)



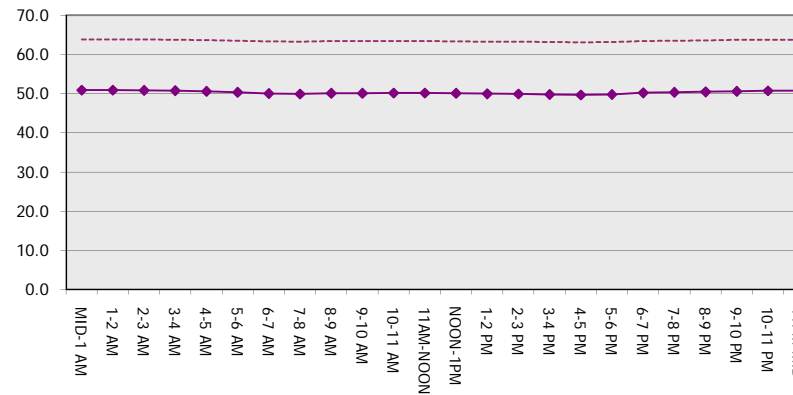
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	45	0.0	1500	45	0	0.50	0	63.8	50.9	41.9
1-2 AM	37	0.0	1500	37	0	0.50	0	63.8	50.9	41.9
2-3 AM	31	0.0	1500	31	0	0.50	0	63.8	50.9	41.9
3-4 AM	33	0.0	1500	33	0	0.50	0	63.8	50.9	41.9
4-5 AM	66	0.0	1500	66	0	0.50	0	63.8	50.8	41.8
5-6 AM	144	0.0	1500	144	0	0.51	0	63.7	50.5	41.5
6-7 AM	299	0.0	1500	299	0	0.53	0	63.3	50.1	41.0
7-8 AM	396	0.0	1500	396	0	0.54	0	63.2	49.8	40.6
8-9 AM	288	0.0	1500	288	0	0.53	0	63.3	50.1	41.0
9-10 AM	283	0.0	1500	283	0	0.53	0	63.4	50.1	41.0
10-11 AM	300	0.0	1500	300	0	0.53	0	63.3	50.1	41.0
11AM-NOON	310	0.0	1500	310	0	0.53	0	63.3	50.1	40.9
NOON-1PM	305	0.0	1500	305	0	0.53	0	63.3	50.1	40.9
1-2 PM	336	0.0	1500	336	0	0.53	0	63.3	49.9	40.9
2-3 PM	385	0.0	1500	385	0	0.54	0	63.2	49.8	40.7
3-4 PM	475	0.0	1500	475	0	0.54	0	63.0	49.6	40.4
4-5 PM	438	0.0	1500	438	0	0.54	0	63.1	49.6	40.5
5-6 PM	386	0.0	1500	386	0	0.54	0	63.2	49.8	40.7
6-7 PM	271	0.0	1500	271	0	0.52	0	63.4	50.2	41.0
7-8 PM	176	0.0	1500	176	0	0.52	0	63.6	50.4	41.4
8-9 PM	135	0.0	1500	135	0	0.51	0	63.7	50.5	41.5
9-10 PM	111	0.0	1500	111	0	0.51	0	63.7	50.7	41.6
10-11 PM	97	0.0	1500	97	0	0.51	0	63.7	50.7	41.7
11PM-MID	80	0.0	1500	80	0	0.51	0	63.8	50.7	41.7

----- 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	0.0019
MAIN ROUTE WITH WORKS	0.0025
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$576
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR NORTHBOUND DIRECTION**

