

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

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	45	0.0	1500	45	0	0.50	0	63.8	50.9	41.9
1-2 AM	24	0.0	1500	24	0	0.50	0	63.8	50.9	41.9
2-3 AM	28	0.0	1500	28	0	0.50	0	63.8	50.9	41.9
3-4 AM	26	0.0	1500	26	0	0.50	0	63.8	50.9	41.9
4-5 AM	36	0.0	1500	36	0	0.50	0	63.8	50.9	41.9
5-6 AM	44	0.0	1500	44	0	0.50	0	63.8	50.9	41.9
6-7 AM	48	0.0	1500	48	0	0.50	0	63.8	50.9	41.9
7-8 AM	98	0.0	1500	98	0	0.51	0	63.7	50.7	41.7
8-9 AM	127	0.0	1500	127	0	0.51	0	63.7	50.6	41.5
9-10 AM	213	0.0	1500	213	0	0.52	0	63.5	50.4	41.2
10-11 AM	288	0.0	1500	288	0	0.53	0	63.3	50.1	41.0
11AM-NOON	345	0.0	1500	345	0	0.53	0	63.3	49.9	40.8
NOON-1PM	382	0.0	1500	382	0	0.54	0	63.2	49.8	40.7
1-2 PM	430	0.0	1500	430	0	0.54	0	63.1	49.7	40.6
2-3 PM	491	0.0	1500	491	0	0.55	0	63.0	49.5	40.3
3-4 PM	527	0.0	1500	527	0	0.55	0	62.9	49.4	40.2
4-5 PM	563	0.0	1500	563	0	0.55	0	62.8	49.2	40.1
5-6 PM	503	0.0	1500	503	0	0.55	0	63.0	49.4	40.3
6-7 PM	392	0.0	1500	392	0	0.54	0	63.2	49.8	40.7
7-8 PM	326	0.0	1500	326	0	0.53	0	63.3	50.0	40.9
8-9 PM	272	0.0	1500	272	0	0.52	0	63.4	50.2	41.0
9-10 PM	211	0.0	1500	211	0	0.52	0	63.5	50.4	41.2
10-11 PM	135	0.0	1500	135	0	0.51	0	63.7	50.5	41.5
11PM-MID	73	0.0	1500	73	0	0.51	0	63.8	50.8	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

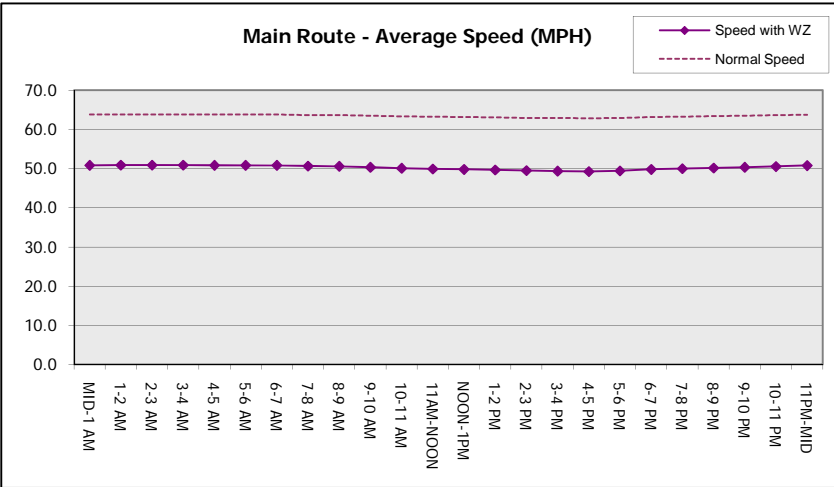
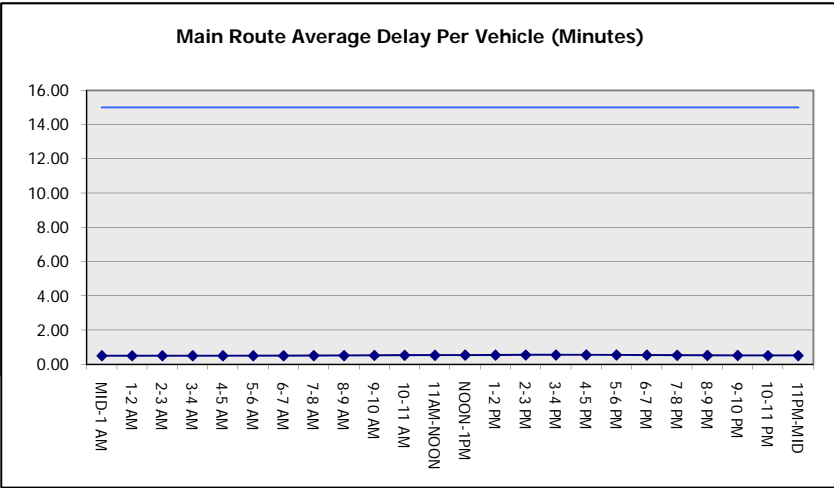
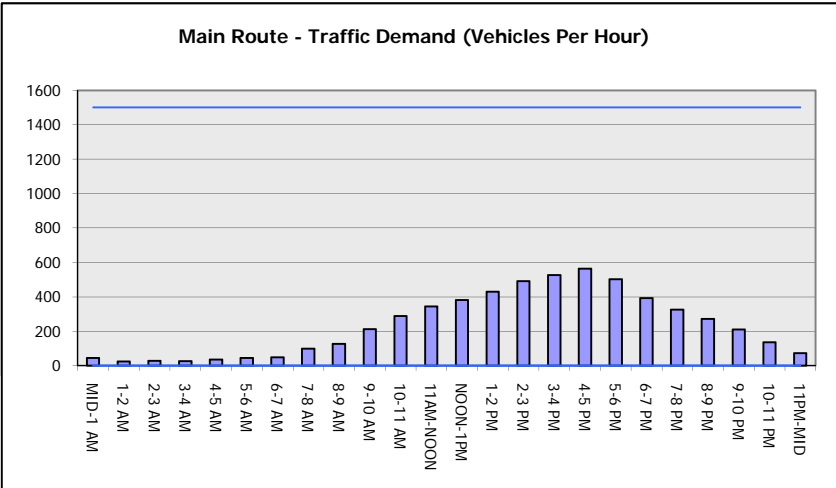
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0019
MAIN ROUTE WITH WORKS	0.0026
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$780
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	43	0.0	1500	43	0	0.50	0	63.8	50.9	41.9
1-2 AM	27	0.0	1500	27	0	0.50	0	63.8	50.9	41.9
2-3 AM	20	0.0	1500	20	0	0.50	0	63.8	50.9	41.9
3-4 AM	16	0.0	1500	16	0	0.50	0	63.9	50.9	41.9
4-5 AM	20	0.0	1500	20	0	0.50	0	63.8	50.9	41.9
5-6 AM	41	0.0	1500	41	0	0.50	0	63.8	50.9	41.9
6-7 AM	60	0.0	1500	60	0	0.50	0	63.8	50.8	41.8
7-8 AM	102	0.0	1500	102	0	0.51	0	63.7	50.7	41.7
8-9 AM	179	0.0	1500	179	0	0.52	0	63.6	50.4	41.4
9-10 AM	237	0.0	1500	237	0	0.52	0	63.5	50.2	41.2
10-11 AM	326	0.0	1500	326	0	0.53	0	63.3	50.0	40.9
11AM-NOON	359	0.0	1500	359	0	0.53	0	63.2	49.9	40.7
NOON-1PM	387	0.0	1500	387	0	0.54	0	63.2	49.8	40.7
1-2 PM	368	0.0	1500	368	0	0.53	0	63.2	49.9	40.7
2-3 PM	369	0.0	1500	369	0	0.53	0	63.2	49.9	40.7
3-4 PM	393	0.0	1500	393	0	0.54	0	63.2	49.8	40.7
4-5 PM	436	0.0	1500	436	0	0.54	0	63.1	49.7	40.5
5-6 PM	373	0.0	1500	373	0	0.53	0	63.2	49.9	40.7
6-7 PM	308	0.0	1500	308	0	0.53	0	63.3	50.1	40.9
7-8 PM	241	0.0	1500	241	0	0.52	0	63.5	50.2	41.2
8-9 PM	207	0.0	1500	207	0	0.52	0	63.5	50.4	41.3
9-10 PM	134	0.0	1500	134	0	0.51	0	63.7	50.5	41.5
10-11 PM	101	0.0	1500	101	0	0.51	0	63.7	50.7	41.7
11PM-MID	51	0.0	1500	51	0	0.50	0	63.8	50.9	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	0.0017
MAIN ROUTE WITH WORKS	0.0022
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$655
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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