

USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	544	0.0	OFF	544	0	0.00	0	70.0	70.0	70.0
1-2 AM	758	0.0	OFF	758	0	0.00	0	69.8	69.8	69.8
2-3 AM	1792	0.0	OFF	1792	0	0.00	0	68.5	68.5	68.5
3-4 AM	3175	0.0	OFF	3175	0	0.00	0	66.8	66.8	66.8
4-5 AM	3603	0.0	OFF	3603	0	0.00	0	66.3	66.3	66.3
5-6 AM	4271	0.0	OFF	4271	0	0.00	0	61.7	61.7	61.7
6-7 AM	5051	0.0	OFF	5051	0	0.00	0	56.3	56.3	56.3
7-8 AM	5052	0.0	OFF	5052	0	0.00	0	56.3	56.3	56.3
8-9 AM	4578	0.0	OFF	4578	0	0.00	0	59.6	59.6	59.6
9-10 AM	4158	0.0	OFF	4158	0	0.00	0	62.5	62.5	62.5
10-11 AM	4298	0.0	1499	1580	2717	17.20+	435	61.5	7.3	36.5
11AM-NOON	4908	0.0	1499	1989	2919	15.86+	408	57.3	7.6	33.2
NOON-1PM	4787	0.0	1499	1474	3313	16.67+	421	58.1	7.3	33.8
1-2 PM	4512	0.0	1499	1486	3026	16.84+	422	60.1	7.3	32.4
2-3 PM	4772	0.0	1499	1500	3272	16.84+	423	58.2	7.3	31.9
3-4 PM	4466	0.0	OFF	4466	0	1.03	91	60.4	39.0	39.0
4-5 PM	3613	0.0	OFF	3613	0	0.00	0	66.2	66.2	66.2
5-6 PM	3228	0.0	OFF	3228	0	0.00	0	66.7	66.7	66.7
6-7 PM	2606	0.0	OFF	2606	0	0.00	0	67.5	67.5	67.5
7-8 PM	2004	0.0	OFF	2004	0	0.00	0	68.2	68.2	68.2
8-9 PM	1507	0.0	OFF	1507	0	0.00	0	68.9	68.9	68.9
9-10 PM	1109	0.0	OFF	1109	0	0.00	0	69.4	69.4	69.4
10-11 PM	879	0.0	OFF	879	0	0.00	0	69.6	69.6	69.6
11PM-MID	617	0.0	OFF	617	0	0.00	0	70.0	70.0	70.0

"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

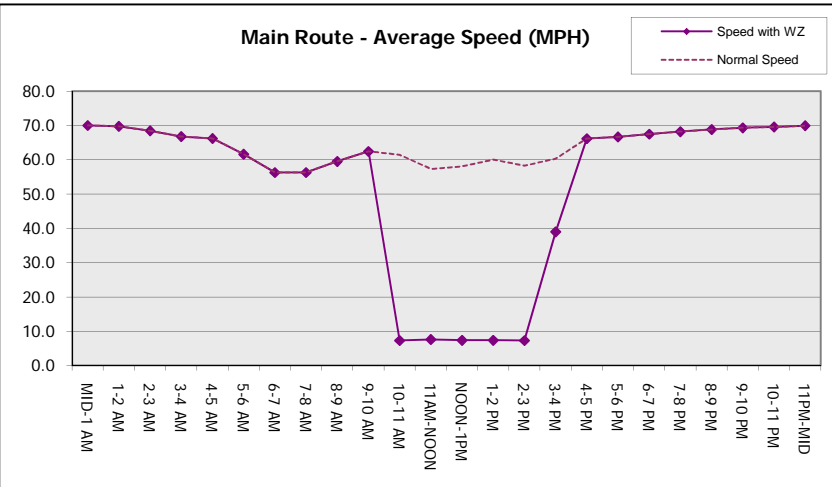
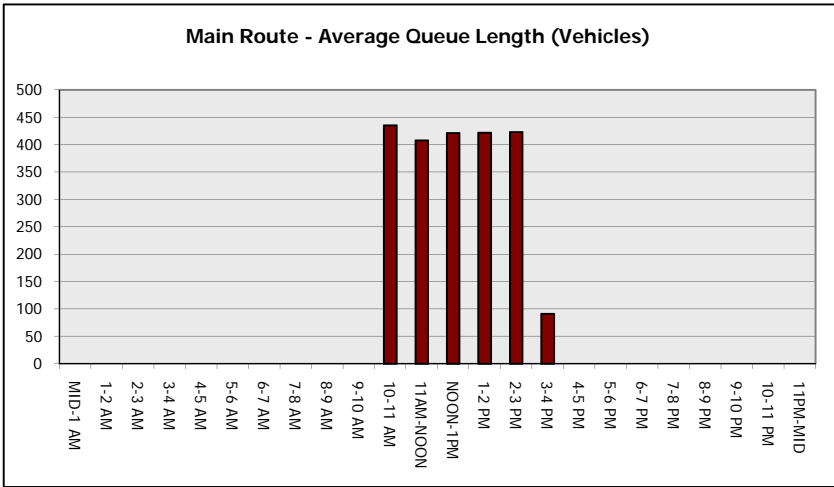
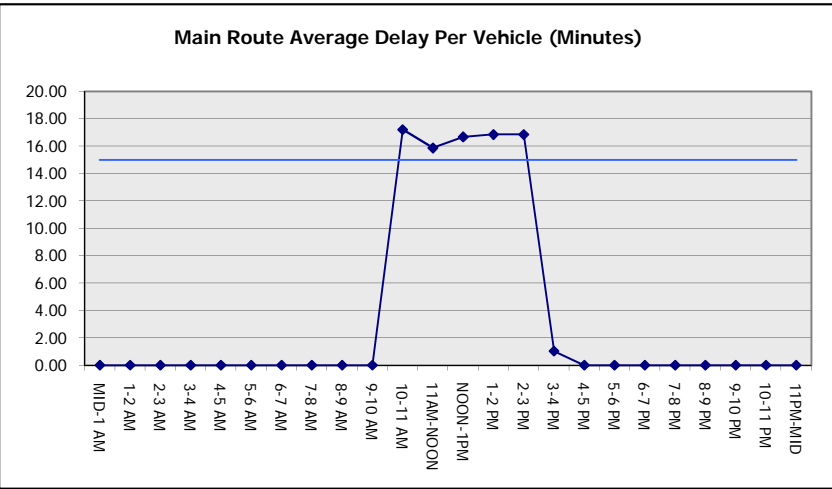
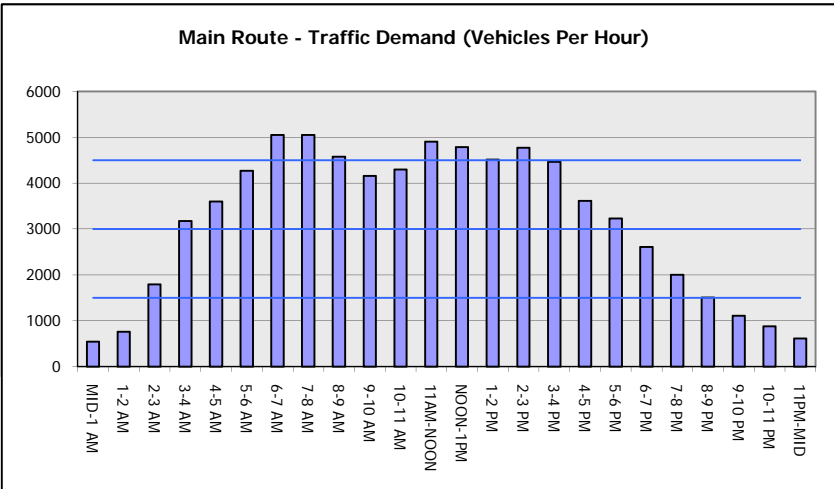
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0231
MAIN ROUTE WITH WORKS	0.0179
'DIVERSION'	0.0107
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$85,141
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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



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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	1323	0.0	OFF	1323	0	0.00	0	69.1	69.1	69.1
1-2 AM	1684	0.0	OFF	1684	0	0.00	0	68.6	68.6	68.6
2-3 AM	2767	0.0	OFF	2767	0	0.00	0	67.3	67.3	67.3
3-4 AM	3781	0.0	OFF	3781	0	0.00	0	65.0	65.0	65.0
4-5 AM	4476	0.0	OFF	4476	0	0.00	0	60.3	60.3	60.3
5-6 AM	4827	0.0	OFF	4827	0	0.00	0	57.9	57.9	57.9
6-7 AM	5189	0.0	OFF	5189	0	0.00	0	55.4	55.4	55.4
7-8 AM	5230	0.0	OFF	5230	0	0.00	0	55.1	55.1	55.1
8-9 AM	4718	0.0	OFF	4718	0	0.00	0	58.6	58.6	58.6
9-10 AM	4486	0.0	OFF	4486	0	0.00	0	60.2	60.2	60.2
10-11 AM	4704	0.0	1499	1590	3114	17.37+	442	58.7	7.2	36.5
11AM-NOON	5179	0.0	1499	1952	3227	15.96+	409	55.5	7.5	31.7
NOON-1PM	5650	0.0	1500	1500	4150	16.52+	423	52.2	7.3	32.6
1-2 PM	5883	0.0	1500	1500	4383	16.43+	423	50.7	7.3	32.6
2-3 PM	5845	0.0	1500	1500	4345	16.45+	423	50.9	7.3	32.6
3-4 PM	5066	0.0	OFF	5066	0	1.72	157	56.3	30.4	30.4
4-5 PM	4678	0.0	OFF	4678	0	0.00	0	58.9	58.9	58.9
5-6 PM	4286	0.0	OFF	4286	0	0.00	0	61.5	61.5	61.5
6-7 PM	3531	0.0	OFF	3531	0	0.00	0	66.3	66.3	66.3
7-8 PM	2852	0.0	OFF	2852	0	0.00	0	67.2	67.2	67.2
8-9 PM	2354	0.0	OFF	2354	0	0.00	0	67.8	67.8	67.8
9-10 PM	2126	0.0	OFF	2126	0	0.00	0	68.1	68.1	68.1
10-11 PM	1686	0.0	OFF	1686	0	0.00	0	68.6	68.6	68.6
11PM-MID	1450	0.0	OFF	1450	0	0.00	0	68.9	68.9	68.9

"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	0.0284
MAIN ROUTE WITH WORKS	0.0220
'DIVERSION'	0.0135

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$99,613
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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