

USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	871	0.0	OFF	871	0	0.00	0	69.7	69.7	69.7	
1-2 AM	483	0.0	OFF	483	0	0.00	0	70.1	70.1	70.1	
2-3 AM	450	0.0	OFF	450	0	0.00	0	70.2	70.2	70.2	
3-4 AM	268	0.0	OFF	268	0	0.00	0	70.2	70.2	70.2	
4-5 AM	310	0.0	OFF	310	0	0.00	0	70.2	70.2	70.2	
5-6 AM	459	0.0	OFF	459	0	0.00	0	70.2	70.2	70.2	
6-7 AM	969	0.0	OFF	969	0	0.00	0	69.6	69.6	69.6	
7-8 AM	1286	0.0	OFF	1286	0	0.00	0	69.1	69.1	69.1	
8-9 AM	1682	0.0	OFF	1682	0	0.00	0	68.6	68.6	68.6	
9-10 AM	2567	0.0	2999	2567	0	0.45	0	67.6	53.3	45.3	
10-11 AM	3395	0.0	2999	3395	0	2.97	157	66.5	24.8	37.3	
11AM-NOON	3845	0.0	3000	3490	355	13.80+	745	64.6	10.9	37.3	
NOON-1PM	4304	0.0	3000	3047	1257	17.19+	922	61.5	9.9	37.3	
1-2 PM	4135	0.0	3000	2977	1158	17.04+	910	62.6	9.9	37.3	
2-3 PM	4389	0.0	2999	3029	1361	17.38+	934	60.9	9.8	37.3	
3-4 PM	4146	0.0	3000	2967	1179	17.08+	913	62.5	9.9	37.3	
4-5 PM	4103	0.0	2999	3008	1096	17.02+	908	62.8	9.9	37.3	
5-6 PM	3281	0.0	3000	2992	289	16.97+	895	66.6	10.0	37.3	
6-7 PM	3451	0.0	2999	2997	454	16.99+	897	66.4	9.9	37.3	
7-8 PM	3016	0.0	OFF	3016	0	1.44	136	67.0	36.3	36.3	
8-9 PM	2632	0.0	OFF	2632	0	0.00	0	67.4	67.4	67.4	
9-10 PM	1867	0.0	OFF	1867	0	0.00	0	68.4	68.4	68.4	
10-11 PM	1440	0.0	OFF	1440	0	0.00	0	68.9	68.9	68.9	
11PM-MID	834	0.0	OFF	834	0	0.00	0	69.7	69.7	69.7	

"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

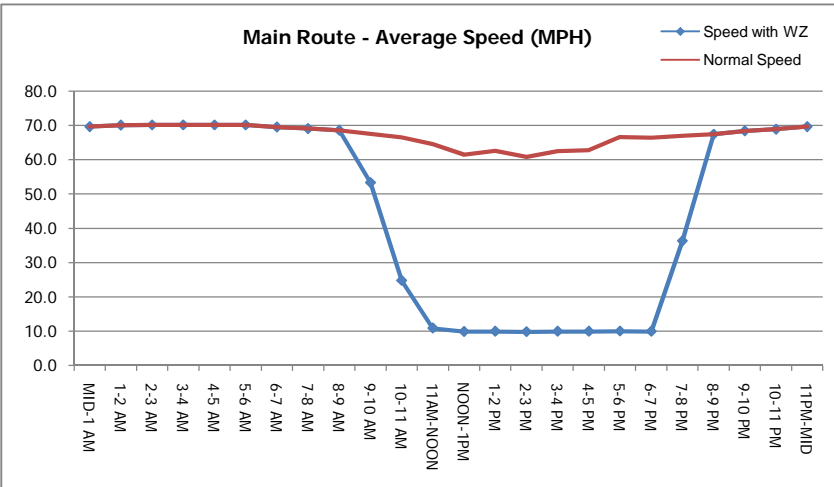
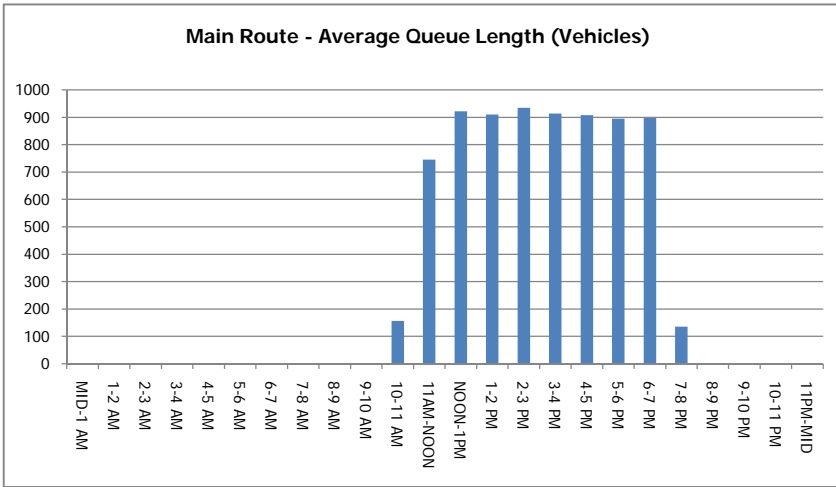
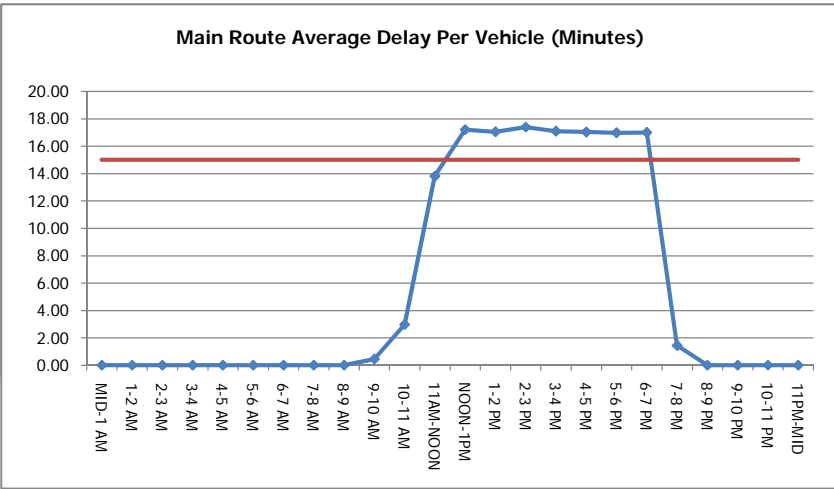
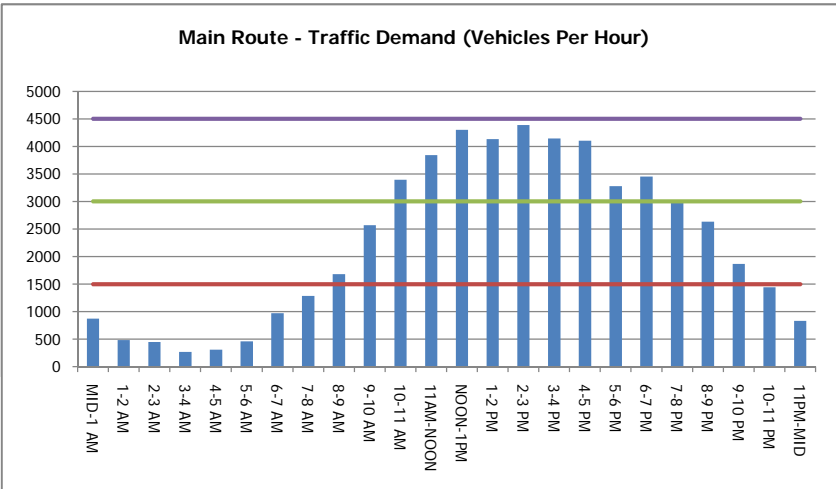
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0164
MAIN ROUTE WITH WORKS	0.0122
'DIVERSION'	0.0050
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$148,745
CONGESTED HOURS PER DAY*	8

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
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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	1511	0.0	OFF	1511	0	0.00	0	68.9	68.9	68.9
1-2 AM	957	0.0	OFF	957	0	0.00	0	69.6	69.6	69.6
2-3 AM	830	0.0	OFF	830	0	0.00	0	69.7	69.7	69.7
3-4 AM	579	0.0	OFF	579	0	0.00	0	70.0	70.0	70.0
4-5 AM	487	0.0	OFF	487	0	0.00	0	70.1	70.1	70.1
5-6 AM	699	0.0	OFF	699	0	0.00	0	69.9	69.9	69.9
6-7 AM	885	0.0	OFF	885	0	0.00	0	69.6	69.6	69.6
7-8 AM	1253	0.0	OFF	1253	0	0.00	0	69.2	69.2	69.2
8-9 AM	1615	0.0	OFF	1615	0	0.00	0	68.7	68.7	68.7
9-10 AM	2400	0.0	3000	2400	0	0.34	0	67.8	56.4	49.4
10-11 AM	2744	0.0	2999	2744	0	0.56	0	67.3	50.6	41.7
11AM-NOON	3285	0.0	2999	3285	0	2.37	112	66.6	27.9	37.3
NOON-1PM	3708	0.0	3000	3708	0	11.54+	626	65.5	11.8	37.3
1-2 PM	3683	0.0	2999	2941	742	17.05+	902	65.7	9.9	37.3
2-3 PM	3655	0.0	2999	2983	673	17.01+	899	65.9	9.9	37.3
3-4 PM	4056	0.0	2999	2991	1065	16.96+	904	63.2	9.9	37.3
4-5 PM	3782	0.0	3000	2997	786	16.99+	900	65.0	9.9	37.3
5-6 PM	3597	0.0	3000	2997	599	17.01+	899	66.3	9.9	37.3
6-7 PM	3616	0.0	2999	2999	618	17.01+	899	66.1	9.9	37.3
7-8 PM	2961	0.0	OFF	2961	0	1.40	133	67.1	36.8	36.8
8-9 PM	2570	0.0	OFF	2570	0	0.00	0	67.6	67.6	67.6
9-10 PM	2110	0.0	OFF	2110	0	0.00	0	68.1	68.1	68.1
10-11 PM	1681	0.0	OFF	1681	0	0.00	0	68.6	68.6	68.6
11PM-MID	1101	0.0	OFF	1101	0	0.00	0	69.4	69.4	69.4

"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	0.0163
MAIN ROUTE WITH WORKS	0.0129
'DIVERSION'	0.0031

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$119,629
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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