

USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	362	0.0	OFF	362	0	0.00	0	70.2	70.2	70.2
1-2 AM	250	0.0	OFF	250	0	0.00	0	70.2	70.2	70.2
2-3 AM	253	0.0	OFF	253	0	0.00	0	70.2	70.2	70.2
3-4 AM	373	0.0	OFF	373	0	0.00	0	70.2	70.2	70.2
4-5 AM	772	0.0	OFF	772	0	0.00	0	69.8	69.8	69.8
5-6 AM	2222	0.0	OFF	2222	0	0.00	0	68.0	68.0	68.0
6-7 AM	4558	0.0	OFF	4558	0	0.00	0	59.7	59.7	59.7
7-8 AM	5694	0.0	OFF	5694	0	0.00	0	52.0	52.0	52.0
8-9 AM	4583	0.0	OFF	4583	0	0.00	0	59.6	59.6	59.6
9-10 AM	3595	0.0	OFF	3595	0	0.00	0	66.3	66.3	66.3
10-11 AM	3456	0.0	2999	3456	0	4.32	232	66.4	21.9	37.3
11AM-NOON	3453	0.0	3000	3453	0	12.93+	684	66.4	11.7	37.3
NOON-1PM	3388	0.0	2999	2988	400	16.69+	880	66.5	10.6	37.3
1-2 PM	3305	0.0	2999	2993	312	16.68+	879	66.6	10.6	37.3
2-3 PM	3821	0.0	2999	2998	823	16.67+	884	64.8	10.5	37.3
3-4 PM	4210	0.0	OFF	4210	0	2.44	219	62.1	29.6	29.6
4-5 PM	4108	0.0	OFF	4108	0	0.00	0	62.8	62.8	62.8
5-6 PM	3932	0.0	OFF	3932	0	0.00	0	64.0	64.0	64.0
6-7 PM	2937	0.0	OFF	2937	0	0.00	0	67.1	67.1	67.1
7-8 PM	2059	0.0	OFF	2059	0	0.00	0	68.2	68.2	68.2
8-9 PM	1732	0.0	OFF	1732	0	0.00	0	68.6	68.6	68.6
9-10 PM	1421	0.0	OFF	1421	0	0.00	0	69.0	69.0	69.0
10-11 PM	1067	0.0	OFF	1067	0	0.00	0	69.4	69.4	69.4
11PM-MID	919	0.0	OFF	919	0	0.00	0	69.6	69.6	69.6

"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	0.0
(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	0
(VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

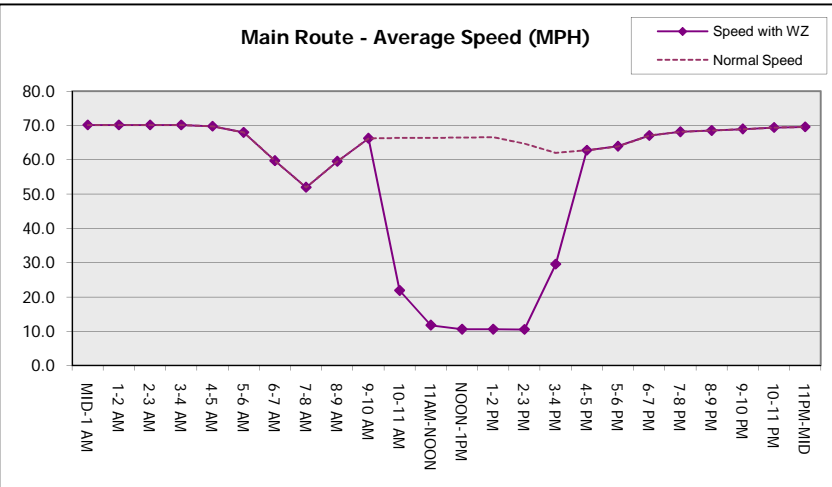
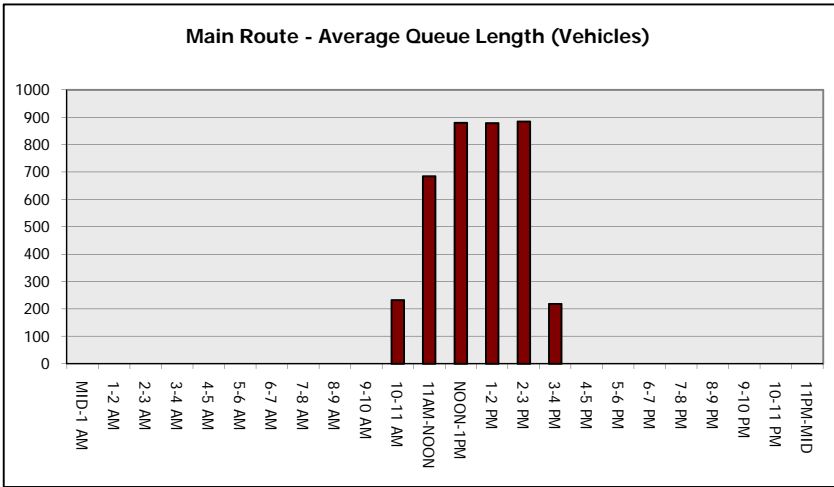
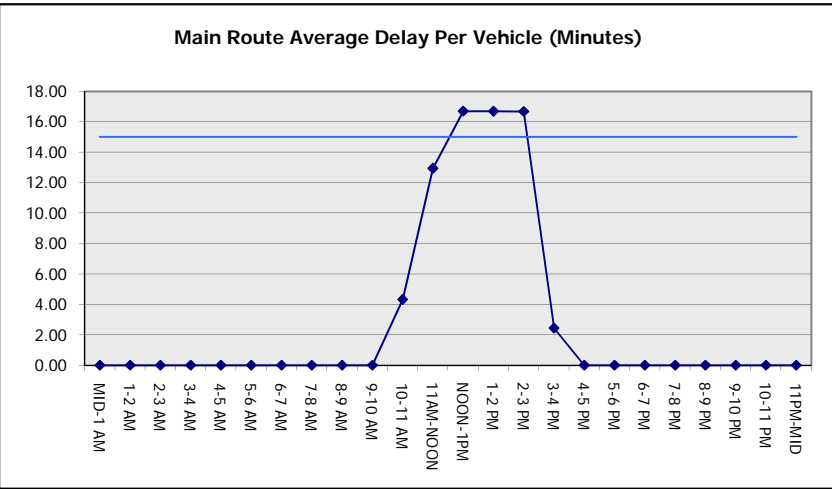
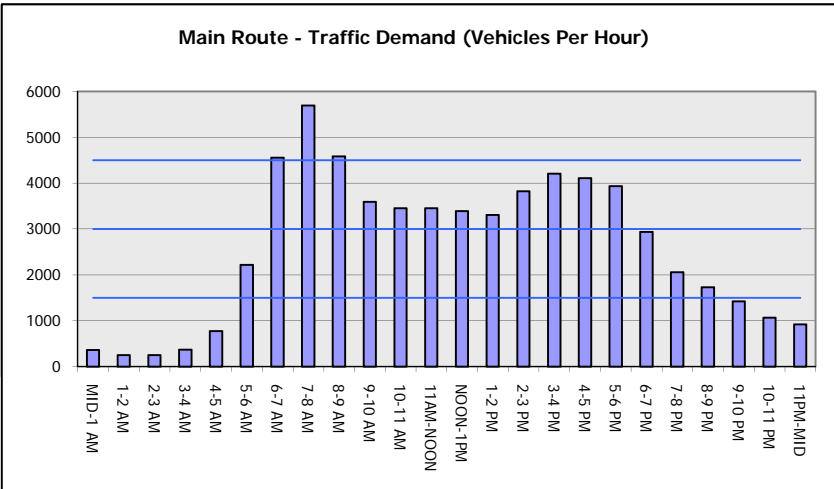
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0229
MAIN ROUTE WITH WORKS	0.0212
'DIVERSION'	0.0013
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$48,085
CONGESTED HOURS PER DAY*	4

*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	537	0.0	OFF	537	0	0.00	0	70.0	70.0	70.0
1-2 AM	331	0.0	OFF	331	0	0.00	0	70.2	70.2	70.2
2-3 AM	281	0.0	OFF	281	0	0.00	0	70.2	70.2	70.2
3-4 AM	326	0.0	OFF	326	0	0.00	0	70.2	70.2	70.2
4-5 AM	660	0.0	OFF	660	0	0.00	0	69.9	69.9	69.9
5-6 AM	1986	0.0	OFF	1986	0	0.00	0	68.2	68.2	68.2
6-7 AM	3683	0.0	OFF	3683	0	0.00	0	65.7	65.7	65.7
7-8 AM	4760	0.0	OFF	4760	0	0.00	0	58.3	58.3	58.3
8-9 AM	3884	0.0	OFF	3884	0	0.00	0	64.3	64.3	64.3
9-10 AM	3076	0.0	OFF	3076	0	0.00	0	66.9	66.9	66.9
10-11 AM	3023	0.0	2999	3023	0	0.89	8	67.0	46.8	37.3
11AM-NOON	3166	0.0	3000	3166	0	2.34	96	66.8	31.3	37.3
NOON-1PM	3352	0.0	3000	3352	0	6.81	350	66.6	16.2	37.3
1-2 PM	3657	0.0	3000	3306	352	14.70+	780	65.9	11.1	37.3
2-3 PM	4440	0.0	3000	3087	1353	16.96+	913	60.5	10.4	37.3
3-4 PM	5068	0.0	OFF	5068	0	5.00	468	56.3	18.5	18.5
4-5 PM	5902	0.0	OFF	5902	0	0.00	0	50.5	50.5	50.5
5-6 PM	5713	0.0	OFF	5713	0	0.00	0	51.9	51.9	51.9
6-7 PM	3668	0.0	OFF	3668	0	0.00	0	65.8	65.8	65.8
7-8 PM	2497	0.0	OFF	2497	0	0.00	0	67.6	67.6	67.6
8-9 PM	2180	0.0	OFF	2180	0	0.00	0	68.0	68.0	68.0
9-10 PM	1970	0.0	OFF	1970	0	0.00	0	68.3	68.3	68.3
10-11 PM	1686	0.0	OFF	1686	0	0.00	0	68.6	68.6	68.6
11PM-MID	1075	0.0	OFF	1075	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	0.0245
MAIN ROUTE WITH WORKS	0.0228
'DIVERSION'	0.0014

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$36,733
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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