

USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) 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	3000	362	0	0.36	0	70.2	59.3	49.7
1-2 AM	250	0.0	3000	250	0	0.36	0	70.2	59.3	49.7
2-3 AM	253	0.0	3000	253	0	0.36	0	70.2	59.3	49.7
3-4 AM	373	0.0	3000	373	0	0.36	0	70.2	59.3	49.7
4-5 AM	772	0.0	3000	772	0	0.35	0	69.8	59.2	49.7
5-6 AM	2222	0.0	2999	2222	0	0.43	0	68.0	56.1	46.1
6-7 AM	4558	0.0	2999	3944	614	9.39+	574	59.7	14.0	37.3
7-8 AM	5694	0.0	3000	3000	2694	16.85+	939	52.0	10.3	37.3
8-9 AM	4583	0.0	3000	2963	1620	17.16+	927	59.6	10.3	37.3
9-10 AM	3595	0.0	3000	2989	606	16.71+	882	66.3	10.5	37.3
10-11 AM	3456	0.0	2999	2993	462	16.69+	881	66.4	10.5	37.3
11AM-NOON	3453	0.0	2999	2996	456	16.69+	881	66.4	10.5	37.3
NOON-1PM	3388	0.0	2999	2998	390	16.69+	880	66.5	10.6	37.3
1-2 PM	3305	0.0	3000	2998	307	16.68+	879	66.6	10.6	37.3
2-3 PM	3821	0.0	2999	3001	820	16.67+	884	64.8	10.5	37.3
3-4 PM	4210	0.0	3000	3017	1193	16.73+	895	62.1	10.4	37.3
4-5 PM	4108	0.0	3000	2989	1119	16.66+	889	62.8	10.5	37.3
5-6 PM	3932	0.0	3000	2998	934	16.65+	885	64.0	10.5	37.3
6-7 PM	2937	0.0	3000	2849	88	16.05+	845	67.1	10.7	37.3
7-8 PM	2059	0.0	2999	2059	0	3.63	323	68.2	26.0	44.7
8-9 PM	1732	0.0	3000	1732	0	0.34	0	68.6	58.7	49.7
9-10 PM	1421	0.0	3000	1421	0	0.34	0	69.0	58.9	49.7
10-11 PM	1067	0.0	3000	1067	0	0.35	0	69.4	59.0	49.7
11PM-MID	919	0.0	3000	919	0	0.35	0	69.6	59.1	49.7

+ 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

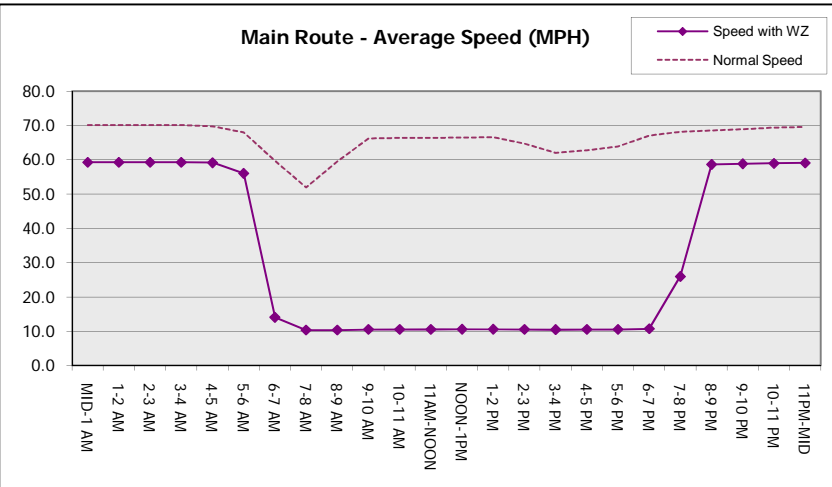
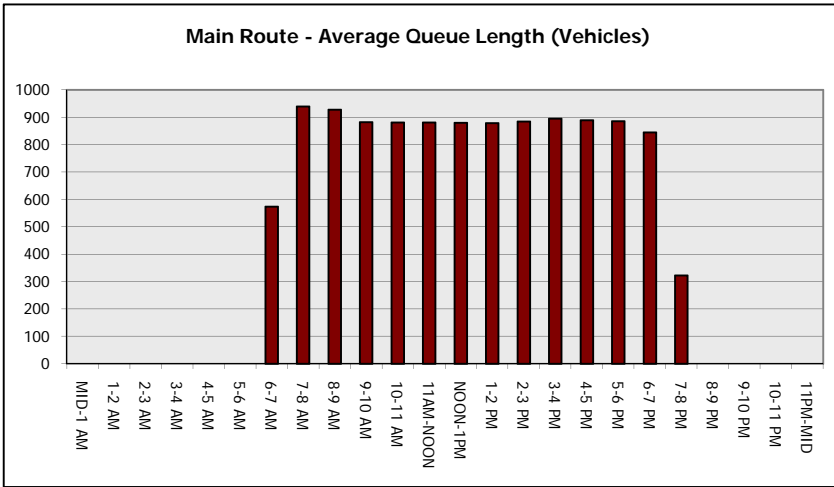
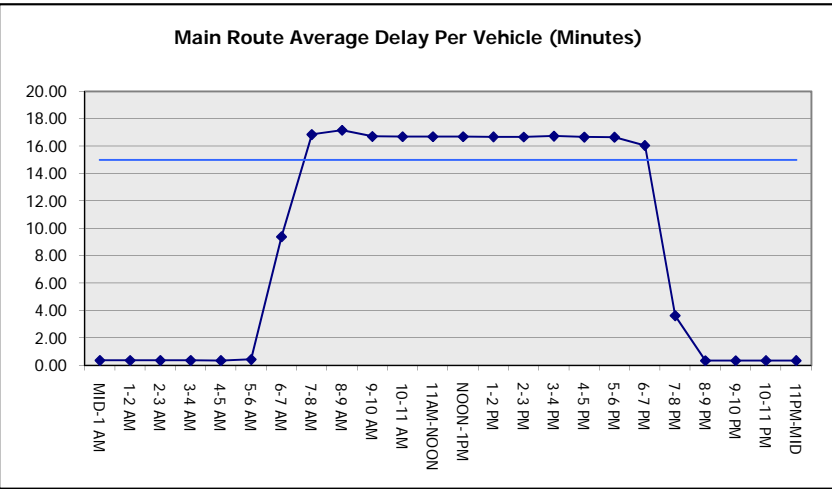
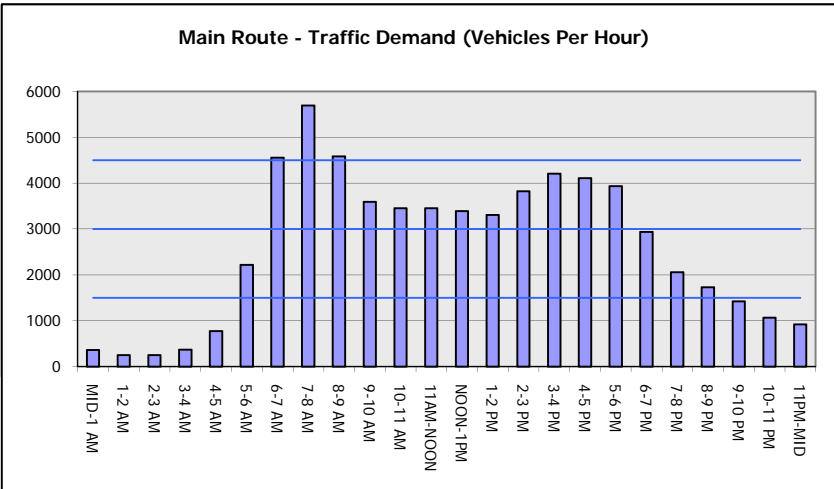
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0229
MAIN ROUTE WITH WORKS	0.0153
'DIVERSION'	0.0096
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$182,642
CONGESTED HOURS PER DAY*	13

*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	3000	537	0	0.36	0	70.0	59.3	49.7	
1-2 AM	331	0.0	3000	331	0	0.36	0	70.2	59.3	49.7	
2-3 AM	281	0.0	3000	281	0	0.36	0	70.2	59.3	49.7	
3-4 AM	326	0.0	3000	326	0	0.36	0	70.2	59.3	49.7	
4-5 AM	660	0.0	3000	660	0	0.36	0	69.9	59.2	49.7	
5-6 AM	1986	0.0	2999	1986	0	0.33	0	68.2	58.6	49.7	
6-7 AM	3683	0.0	2999	3683	0	4.04	254	65.7	23.3	37.3	
7-8 AM	4760	0.0	2999	3220	1540	16.82+	912	58.3	10.4	37.3	
8-9 AM	3884	0.0	3000	2986	898	16.69+	886	64.3	10.5	37.3	
9-10 AM	3076	0.0	3000	2973	102	16.62+	875	66.9	10.6	37.3	
10-11 AM	3023	0.0	3000	3015	9	16.52+	870	67.0	10.6	37.3	
11AM-NOON	3166	0.0	2999	3001	166	16.67+	878	66.8	10.6	37.3	
NOON-1PM	3352	0.0	2999	3001	351	16.68+	880	66.6	10.6	37.3	
1-2 PM	3657	0.0	2999	3002	656	16.70+	882	65.9	10.5	37.3	
2-3 PM	4440	0.0	3000	3054	1386	16.97+	913	60.5	10.4	37.3	
3-4 PM	5068	0.0	3000	3000	2068	17.17+	939	56.3	10.3	37.3	
4-5 PM	5902	0.0	3000	3000	2901	16.73+	939	50.5	10.3	37.3	
5-6 PM	5713	0.0	3000	3000	2713	16.84+	939	51.9	10.3	37.3	
6-7 PM	3668	0.0	3000	2959	708	16.78+	887	65.8	10.5	37.3	
7-8 PM	2497	0.0	2999	2497	0	12.97+	689	67.6	11.8	37.8	
8-9 PM	2180	0.0	2999	2180	0	1.34	101	68.0	41.0	47.5	
9-10 PM	1970	0.0	3000	1970	0	0.34	0	68.3	58.6	49.7	
10-11 PM	1686	0.0	3000	1686	0	0.34	0	68.6	58.7	49.7	
11PM-MID	1075	0.0	3000	1075	0	0.35	0	69.4	59.0	49.7	

+ 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	0.0160
'DIVERSION'	0.0114

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$195,236
CONGESTED HOURS PER DAY*	13

*Delays Exceeding User-Specified Maximum

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