

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

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	686	0.0	3000	686	0	0.36	0	69.9	59.2	49.7
1-2 AM	450	0.0	3000	450	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	202	0.0	3000	202	0	0.36	0	70.2	59.3	49.7
4-5 AM	226	0.0	3000	226	0	0.36	0	70.2	59.3	49.7
5-6 AM	346	0.0	3000	346	0	0.36	0	70.2	59.3	49.7
6-7 AM	694	0.0	3000	694	0	0.36	0	69.9	59.2	49.7
7-8 AM	857	0.0	3000	857	0	0.35	0	69.7	59.1	49.7
8-9 AM	1330	0.0	3000	1330	0	0.35	0	69.1	58.9	49.7
9-10 AM	2089	0.0	2999	2089	0	0.33	0	68.1	58.5	49.7
10-11 AM	3002	0.0	2999	3002	0	1.03	25	67.0	44.6	38.9
11AM-NOON	3686	0.0	3000	3686	0	7.58	424	65.7	15.6	37.3
NOON-1PM	3609	0.0	2999	3058	551	16.72+	883	66.2	10.5	37.3
1-2 PM	3215	0.0	3000	3015	200	16.67+	878	66.8	10.6	37.3
2-3 PM	3481	0.0	3000	3009	472	16.69+	881	66.4	10.5	37.3
3-4 PM	3330	0.0	3000	3005	325	16.68+	880	66.6	10.6	37.3
4-5 PM	3213	0.0	3000	3002	210	16.67+	879	66.8	10.6	37.3
5-6 PM	3011	0.0	3000	2983	28	16.57+	872	67.0	10.6	37.3
6-7 PM	2843	0.0	2999	2843	0	15.22+	799	67.2	10.9	37.3
7-8 PM	2408	0.0	2999	2408	0	7.72	431	67.8	15.6	40.0
8-9 PM	2027	0.0	3000	2027	0	0.42	7	68.2	56.4	49.7
9-10 PM	1466	0.0	3000	1466	0	0.34	0	68.9	58.8	49.7
10-11 PM	975	0.0	3000	975	0	0.35	0	69.6	59.1	49.7
11PM-MID	566	0.0	3000	566	0	0.36	0	70.0	59.2	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

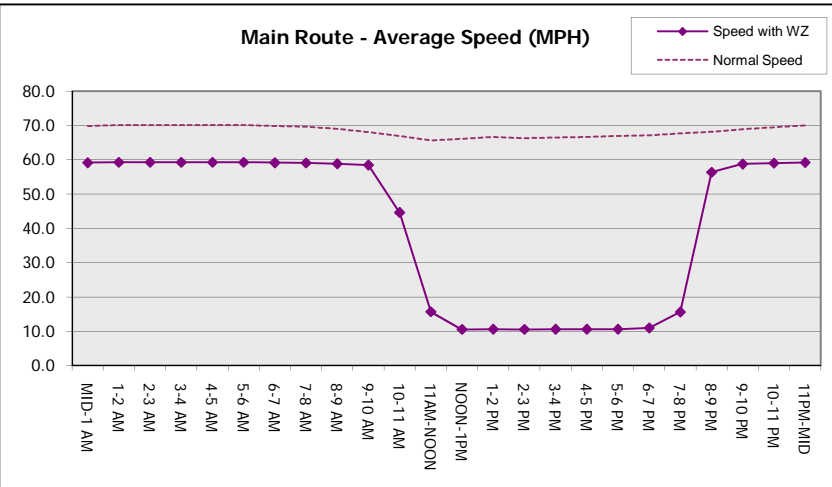
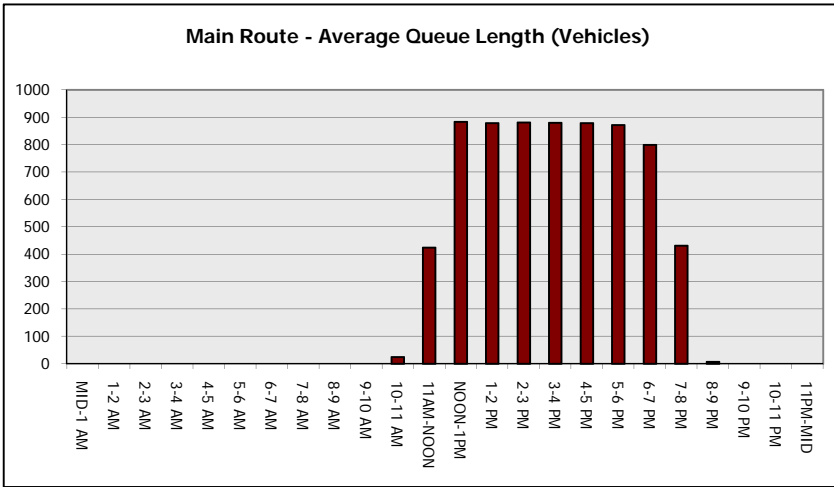
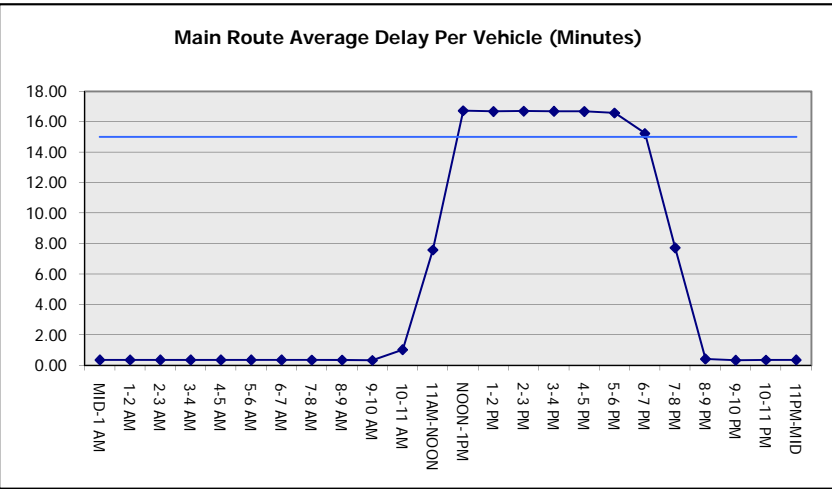
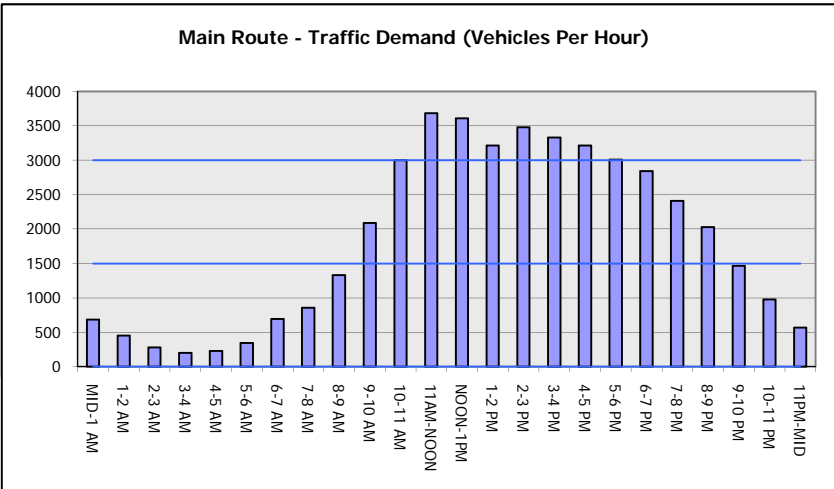
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0161
MAIN ROUTE WITH WORKS	0.0127
'DIVERSION'	0.0015
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$121,099
CONGESTED HOURS PER DAY*	7

*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	856	0.0	3000	856	0	0.35	0	69.7	59.1	49.7
1-2 AM	521	0.0	3000	521	0	0.36	0	70.1	59.3	49.7
2-3 AM	399	0.0	3000	399	0	0.36	0	70.2	59.3	49.7
3-4 AM	222	0.0	3000	222	0	0.36	0	70.2	59.3	49.7
4-5 AM	182	0.0	3000	182	0	0.36	0	70.2	59.3	49.7
5-6 AM	319	0.0	3000	319	0	0.36	0	70.2	59.3	49.7
6-7 AM	535	0.0	3000	535	0	0.36	0	70.0	59.3	49.7
7-8 AM	817	0.0	3000	817	0	0.35	0	69.7	59.1	49.7
8-9 AM	1149	0.0	3000	1149	0	0.35	0	69.3	59.0	49.7
9-10 AM	1613	0.0	3000	1613	0	0.34	0	68.7	58.7	49.7
10-11 AM	2107	0.0	3000	2107	0	0.33	0	68.1	58.5	49.7
11AM-NOON	2393	0.0	3000	2393	0	0.33	0	67.8	58.2	49.5
NOON-1PM	2699	0.0	3000	2699	0	0.53	0	67.4	53.5	42.5
1-2 PM	2870	0.0	3000	2870	0	0.64	0	67.2	51.1	39.3
2-3 PM	2918	0.0	2999	2918	0	0.68	0	67.1	50.5	38.6
3-4 PM	3117	0.0	2999	3117	0	1.50	46	66.9	38.8	37.3
4-5 PM	3294	0.0	3000	3294	0	5.19	260	66.6	19.2	37.3
5-6 PM	3230	0.0	3000	3230	0	10.60	548	66.7	12.8	37.3
6-7 PM	2598	0.0	2999	2598	0	9.06	474	67.5	13.8	37.9
7-8 PM	2137	0.0	3000	2137	0	0.73	37	68.1	49.9	49.3
8-9 PM	1794	0.0	3000	1794	0	0.34	0	68.5	58.6	49.7
9-10 PM	1545	0.0	3000	1545	0	0.34	0	68.8	58.8	49.7
10-11 PM	1322	0.0	3000	1322	0	0.35	0	69.1	58.9	49.7
11PM-MID	746	0.0	3000	746	0	0.35	0	69.8	59.2	49.7

----- 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	0.0144
MAIN ROUTE WITH WORKS	0.0118
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$26,018
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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