

<b>USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	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	632	0.0	3000	632	0	0.36	0	69.9	57.4	49.7
1-2 AM	447	0.0	3000	447	0	0.36	0	70.2	57.4	49.7
2-3 AM	396	0.0	3000	396	0	0.36	0	70.2	57.4	49.7
3-4 AM	471	0.0	3000	471	0	0.36	0	70.2	57.4	49.7
4-5 AM	850	0.0	3000	850	0	0.35	0	69.7	57.3	49.7
5-6 AM	2448	0.0	2999	2448	0	0.51	0	67.7	52.0	43.7
6-7 AM	5083	0.0	2999	3844	1239	11.74+	684	56.1	11.7	37.3
7-8 AM	6048	0.0	2999	3000	3048	17.19+	968	49.6	9.7	37.5
8-9 AM	5419	0.0	3000	3036	2383	17.44+	963	53.8	9.7	37.4
9-10 AM	4639	0.0	3000	3072	1566	17.56+	949	59.2	9.7	37.3
10-11 AM	4359	0.0	3000	2982	1376	17.42+	936	61.1	9.8	37.3
11AM-NOON	4677	0.0	2999	3028	1649	17.79+	963	58.9	9.7	37.3
NOON-1PM	4560	0.0	3000	2996	1564	17.77+	959	59.7	9.7	37.3
1-2 PM	4633	0.0	3000	3001	1633	17.80+	963	59.2	9.7	37.3
2-3 PM	5162	0.0	3000	3000	2162	17.66+	968	55.6	9.7	37.3
3-4 PM	4490	0.0	3000	2975	1515	17.68+	953	60.2	9.7	37.3
4-5 PM	4178	0.0	2999	2972	1207	17.13+	916	62.3	9.9	37.3
5-6 PM	4013	0.0	3000	2999	1014	16.95+	903	63.5	9.9	37.3
6-7 PM	4247	0.0	2999	3002	1245	17.18+	920	61.9	9.9	37.3
7-8 PM	3071	0.0	3000	2927	144	16.73+	882	66.9	10.0	37.3
8-9 PM	2556	0.0	2999	2556	0	12.18+	641	67.6	11.4	37.3
9-10 PM	2119	0.0	2999	2119	0	1.26	98	68.1	39.2	47.7
10-11 PM	1649	0.0	3000	1649	0	0.34	0	68.7	57.0	49.7
11PM-MID	1281	0.0	3000	1281	0	0.35	0	69.1	57.1	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	0.0234
MAIN ROUTE WITH WORKS	0.0132
'DIVERSION'	0.0152
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$248,983
CONGESTED HOURS PER DAY*	15

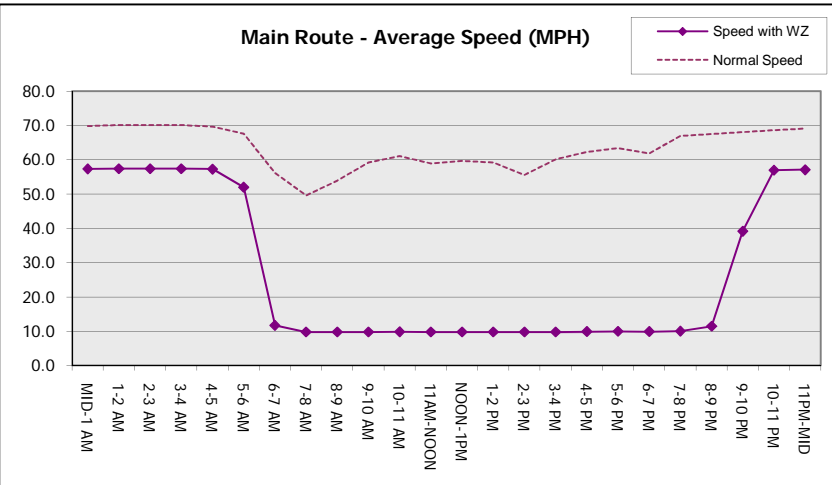
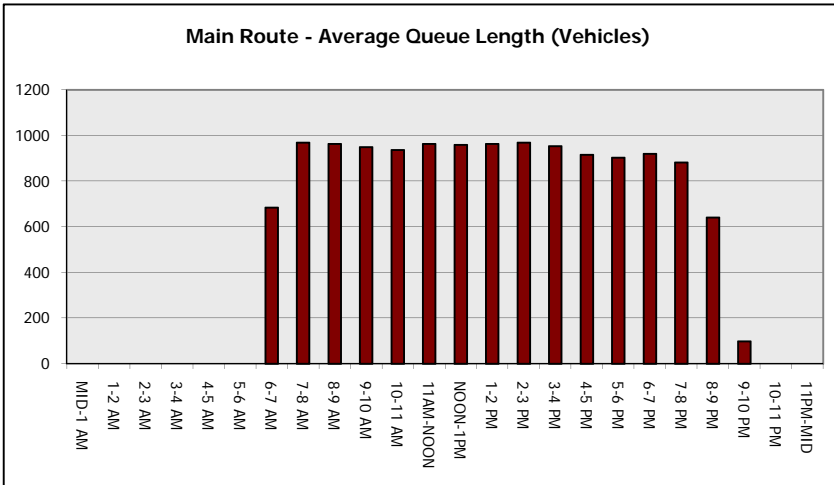
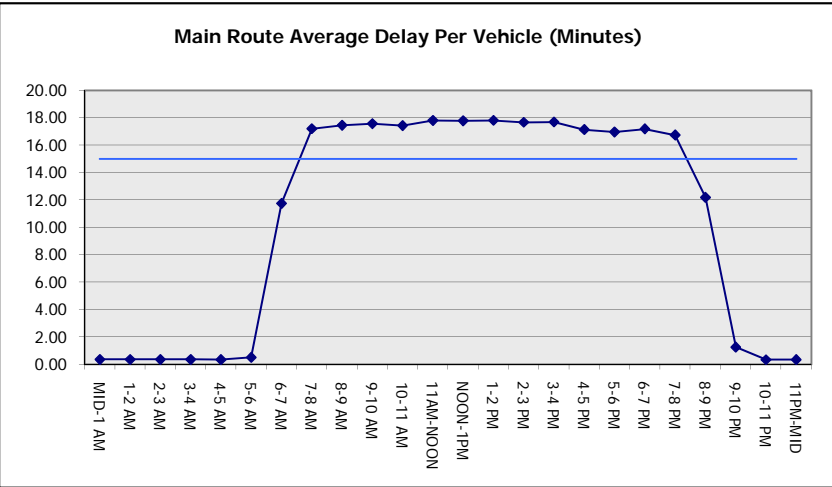
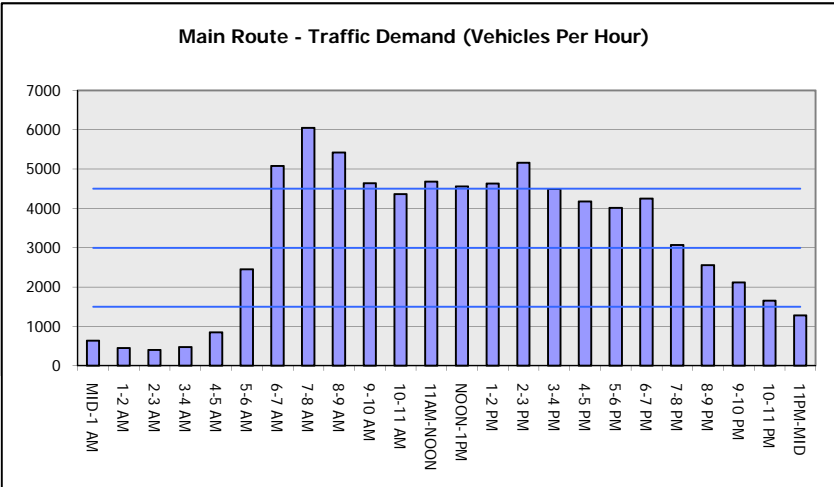
\*Delays Exceeding User-Specified Maximum

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**AUGUST**  
Analyzed for 2009  
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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	970	0.0	3000	970	0	0.35	0	69.6	57.3	49.7	
1-2 AM	678	0.0	3000	678	0	0.36	0	69.9	57.4	49.7	
2-3 AM	650	0.0	3000	650	0	0.36	0	69.9	57.4	49.7	
3-4 AM	695	0.0	3000	695	0	0.36	0	69.9	57.4	49.7	
4-5 AM	1287	0.0	3000	1287	0	0.35	0	69.1	57.1	49.7	
5-6 AM	3250	0.0	2999	3250	0	1.55	94	66.7	35.0	39.4	
6-7 AM	5363	0.0	3000	3646	1717	15.69+	875	54.2	10.2	37.3	
7-8 AM	6317	0.0	2999	3000	3318	17.04+	968	47.7	9.7	37.3	
8-9 AM	5294	0.0	3000	2968	2326	17.55+	965	54.7	9.7	37.3	
9-10 AM	4205	0.0	2999	2918	1287	17.34+	928	62.1	9.9	37.3	
10-11 AM	4121	0.0	2999	2998	1123	16.99+	907	62.7	9.9	37.3	
11AM-NOON	4431	0.0	2999	3039	1392	17.43+	938	60.6	9.8	37.3	
NOON-1PM	4460	0.0	3000	3007	1453	17.55+	945	60.4	9.8	37.3	
1-2 PM	4986	0.0	2999	3000	1986	17.74+	968	56.8	9.7	37.3	
2-3 PM	5617	0.0	3000	3000	2618	17.44+	968	52.5	9.7	37.3	
3-4 PM	5573	0.0	3000	3000	2573	17.46+	968	52.8	9.7	37.3	
4-5 PM	6389	0.0	3000	3000	3389	17.00+	968	47.2	9.7	37.3	
5-6 PM	6265	0.0	3000	3000	3265	17.07+	968	48.1	9.7	37.3	
6-7 PM	4587	0.0	3000	2962	1625	17.54+	947	59.5	9.8	37.3	
7-8 PM	3388	0.0	3000	2989	398	16.99+	897	66.5	10.0	37.3	
8-9 PM	3005	0.0	2999	2965	40	16.81+	886	67.0	10.0	37.3	
9-10 PM	3062	0.0	3000	3019	44	16.90+	891	66.9	10.0	37.3	
10-11 PM	2793	0.0	3000	2793	0	15.80+	831	67.3	10.2	37.3	
11PM-MID	1653	0.0	2999	1653	0	1.82	207	68.7	34.4	48.7	

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

MAIN ROUTE WITHOUT WORKS	0.0269
MAIN ROUTE WITH WORKS	0.0143
'DIVERSION'	0.0200

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$302,260
CONGESTED HOURS PER DAY*	17

\*Delays Exceeding User-Specified Maximum

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