

<b>USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	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	842	0.0	1500	842	0	0.57	0	69.7	51.7	42.2	
1-2 AM	473	0.0	1500	473	0	0.53	0	70.2	52.9	43.6	
2-3 AM	428	0.0	1500	428	0	0.52	0	70.2	53.0	43.8	
3-4 AM	306	0.0	1500	306	0	0.51	0	70.2	53.4	44.3	
4-5 AM	279	0.0	1500	279	0	0.51	0	70.2	53.5	44.3	
5-6 AM	486	0.0	1500	486	0	0.53	0	70.1	52.8	43.5	
6-7 AM	905	0.0	1500	905	0	0.58	0	69.6	51.5	42.0	
7-8 AM	1156	0.0	1499	1156	0	0.68	0	69.3	49.0	39.1	
8-9 AM	1702	0.0	1499	1702	0	2.47	56	68.6	27.6	30.8	
9-10 AM	2584	0.0	OFF	2584	0	0.07	5	67.5	65.0	65.0	
10-11 AM	3214	0.0	OFF	3214	0	0.00	0	66.8	66.8	66.8	
11AM-NOON	3815	0.0	OFF	3815	0	0.00	0	64.8	64.8	64.8	
NOON-1PM	4429	0.0	OFF	4429	0	0.00	0	60.6	60.6	60.6	
1-2 PM	4484	0.0	OFF	4484	0	0.00	0	60.2	60.2	60.2	
2-3 PM	4689	0.0	OFF	4689	0	0.00	0	58.8	58.8	58.8	
3-4 PM	4437	0.0	OFF	4437	0	0.00	0	60.5	60.5	60.5	
4-5 PM	4151	0.0	OFF	4151	0	0.00	0	62.5	62.5	62.5	
5-6 PM	4025	0.0	OFF	4025	0	0.00	0	63.3	63.3	63.3	
6-7 PM	3794	0.0	OFF	3794	0	0.00	0	65.0	65.0	65.0	
7-8 PM	3004	0.0	1499	1578	1426	17.31+	433	67.0	7.3	36.5	
8-9 PM	2277	0.0	1499	1788	489	13.89+	354	67.9	8.4	32.2	
9-10 PM	1638	0.0	1499	1521	116	16.33+	398	68.7	7.5	30.8	
10-11 PM	1076	0.0	1499	1076	0	5.89	206	69.4	15.8	35.7	
11PM-MID	662	0.0	1500	662	0	0.55	0	69.9	52.3	42.9	

"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	0.0166
MAIN ROUTE WITH WORKS	0.0151
'DIVERSION'	0.0014
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$32,577
CONGESTED HOURS PER DAY*	3

\*Delays Exceeding User-Specified Maximum

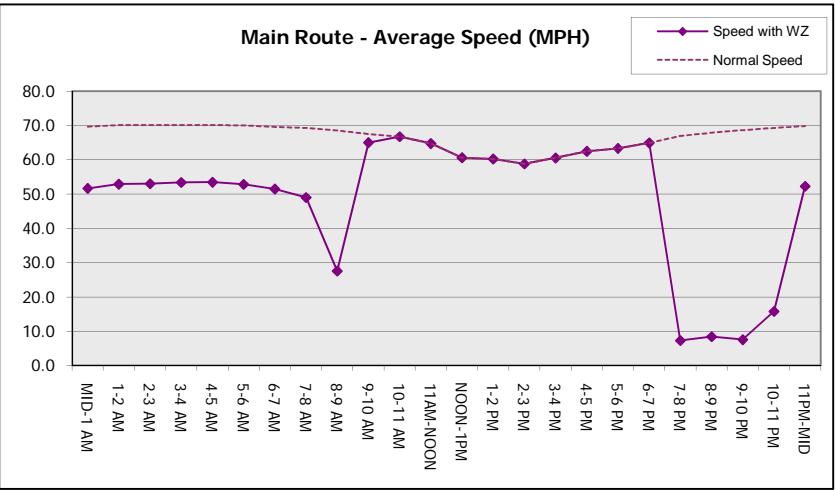
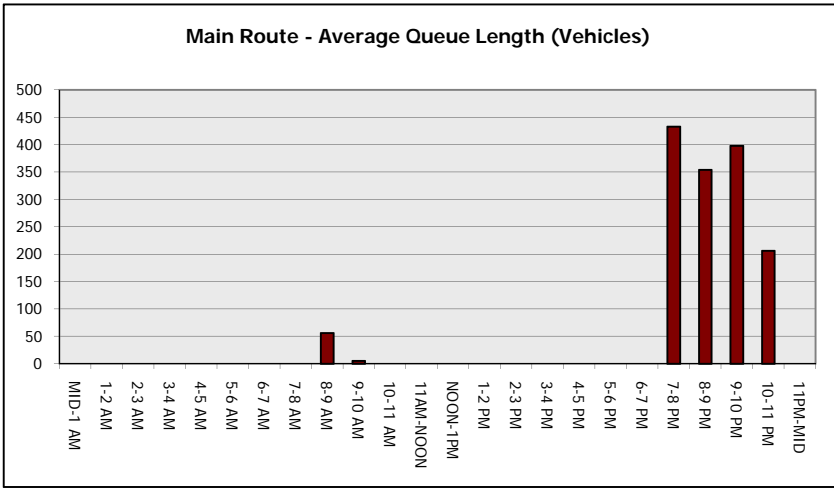
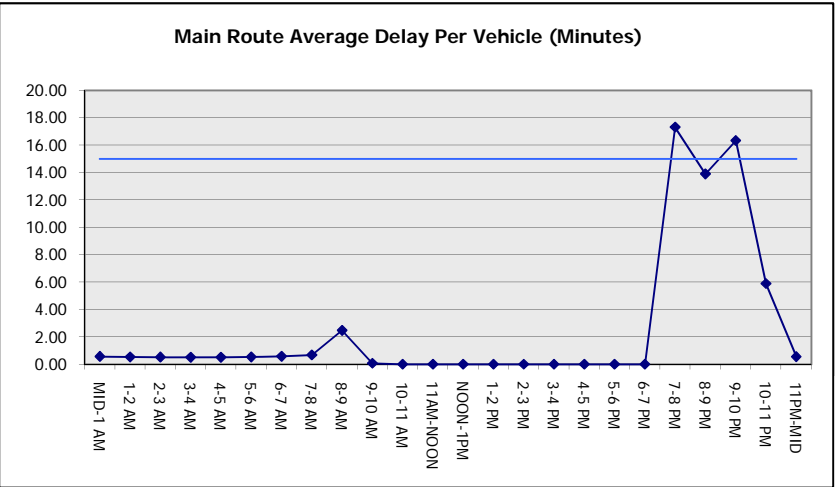
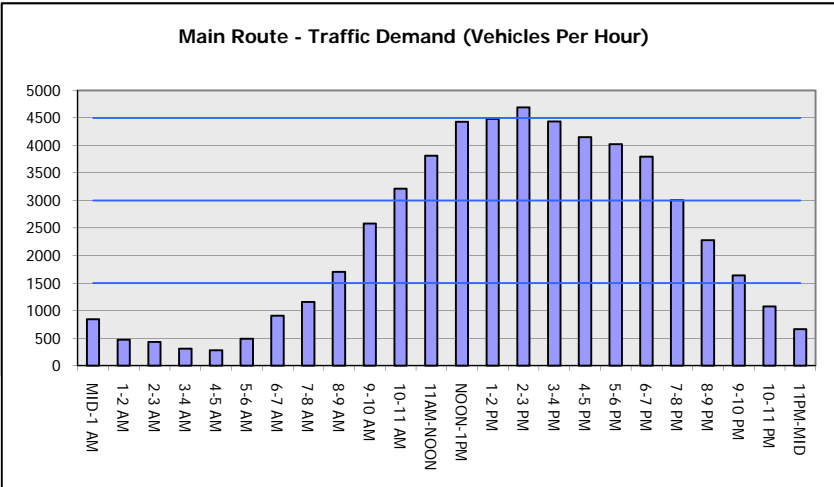
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 NIGHTTIME 2 LANE CLOSURE  
 NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**OCTOBER**

Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SUNDAY SOUTHBOUND DIRECTION**



<b>USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**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	1278	0.0	1500	1278	0	0.81	0	69.1	46.4	36.1
1-2 AM	825	0.0	1500	825	0	0.57	0	69.7	51.7	42.3
2-3 AM	825	0.0	1500	825	0	0.57	0	69.7	51.7	42.3
3-4 AM	559	0.0	1500	559	0	0.54	0	70.0	52.6	43.3
4-5 AM	548	0.0	1500	548	0	0.54	0	70.0	52.7	43.3
5-6 AM	736	0.0	1500	736	0	0.56	0	69.8	52.0	42.6
6-7 AM	1015	0.0	1500	1015	0	0.59	0	69.5	51.1	41.6
7-8 AM	1296	0.0	1499	1296	0	0.83	0	69.1	46.1	35.8
8-9 AM	1795	0.0	1499	1795	0	4.09	109	68.5	19.8	30.8
9-10 AM	2510	0.0	OFF	2510	0	0.13	12	67.6	62.7	62.7
10-11 AM	3067	0.0	OFF	3067	0	0.00	0	66.9	66.9	66.9
11AM-NOON	3388	0.0	OFF	3388	0	0.00	0	66.5	66.5	66.5
NOON-1PM	3881	0.0	OFF	3881	0	0.00	0	64.3	64.3	64.3
1-2 PM	3868	0.0	OFF	3868	0	0.00	0	64.5	64.5	64.5
2-3 PM	3907	0.0	OFF	3907	0	0.00	0	64.1	64.1	64.1
3-4 PM	4233	0.0	OFF	4233	0	0.00	0	61.9	61.9	61.9
4-5 PM	3911	0.0	OFF	3911	0	0.00	0	64.1	64.1	64.1
5-6 PM	3899	0.0	OFF	3899	0	0.00	0	64.2	64.2	64.2
6-7 PM	3174	0.0	OFF	3174	0	0.00	0	66.8	66.8	66.8
7-8 PM	2946	0.0	1499	1565	1381	16.33+	407	67.1	7.5	36.5
8-9 PM	2231	0.0	1499	1878	353	13.42+	342	67.9	8.5	30.8
9-10 PM	1963	0.0	1499	1497	466	16.91+	414	68.3	7.3	30.8
10-11 PM	1564	0.0	1499	1452	111	16.72+	408	68.8	7.4	30.8
11PM-MID	1071	0.0	1499	1071	0	5.32	188	69.4	17.0	35.6

"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 (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	0.0165
MAIN ROUTE WITH WORKS	0.0147
'DIVERSION'	0.0016

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$40,738
CONGESTED HOURS PER DAY*	4

\*Delays Exceeding User-Specified Maximum

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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY NORTHBOUND DIRECTION**

