

USH 41: STH 15 TO STH 441 (OUTAGAMIE COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	319	0.0	OFF	319	0	0.00	0	65.8	65.8	65.8
1-2 AM	172	0.0	OFF	172	0	0.00	0	66.1	66.1	66.1
2-3 AM	172	0.0	OFF	172	0	0.00	0	66.1	66.1	66.1
3-4 AM	159	0.0	OFF	159	0	0.00	0	66.1	66.1	66.1
4-5 AM	195	0.0	OFF	195	0	0.00	0	66.0	66.0	66.0
5-6 AM	319	0.0	OFF	319	0	0.00	0	65.8	65.8	65.8
6-7 AM	498	0.0	OFF	498	0	0.00	0	65.5	65.5	65.5
7-8 AM	856	0.0	OFF	856	0	0.00	0	64.8	64.8	64.8
8-9 AM	1237	0.0	1499	1237	0	0.68	0	64.1	57.0	37.4
9-10 AM	1472	0.0	1499	1472	0	1.15	5	63.7	52.7	31.9
10-11 AM	1814	0.0	1500	1814	0	6.46	166	63.0	29.3	30.8
11AM-NOON	1852	0.0	1499	1555	296	15.56+	393	62.9	16.7	30.8
NOON-1PM	2000	0.0	1500	1500	500	15.77+	400	62.7	16.5	30.8
1-2 PM	1824	0.0	1500	1500	324	15.80+	400	63.0	16.5	30.8
2-3 PM	1680	0.0	1500	1500	180	15.82+	400	63.3	16.5	30.8
3-4 PM	1619	0.0	1500	1500	119	15.83+	400	63.3	16.5	30.8
4-5 PM	1584	0.0	1500	1501	83	15.83+	399	63.4	16.5	30.8
5-6 PM	1465	0.0	1500	1465	0	15.38+	387	63.7	16.9	30.8
6-7 PM	1166	0.0	OFF	1166	0	0.39	22	64.2	59.9	59.9
7-8 PM	901	0.0	OFF	901	0	0.00	0	64.7	64.7	64.7
8-9 PM	836	0.0	OFF	836	0	0.00	0	64.8	64.8	64.8
9-10 PM	688	0.0	OFF	688	0	0.00	0	65.1	65.1	65.1
10-11 PM	620	0.0	OFF	620	0	0.00	0	65.2	65.2	65.2
11PM-MID	479	0.0	OFF	479	0	0.00	0	65.5	65.5	65.5

"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

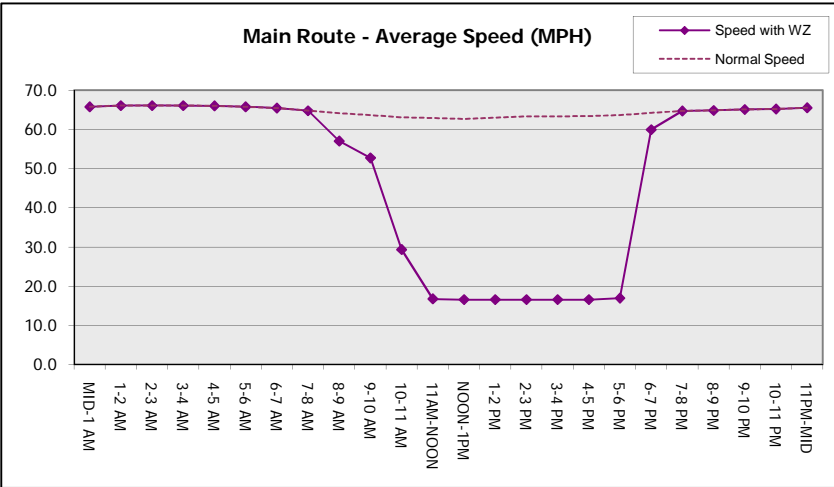
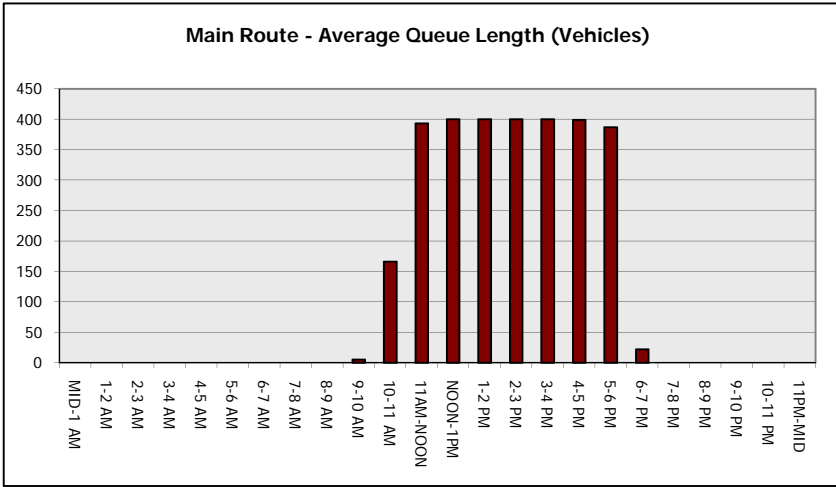
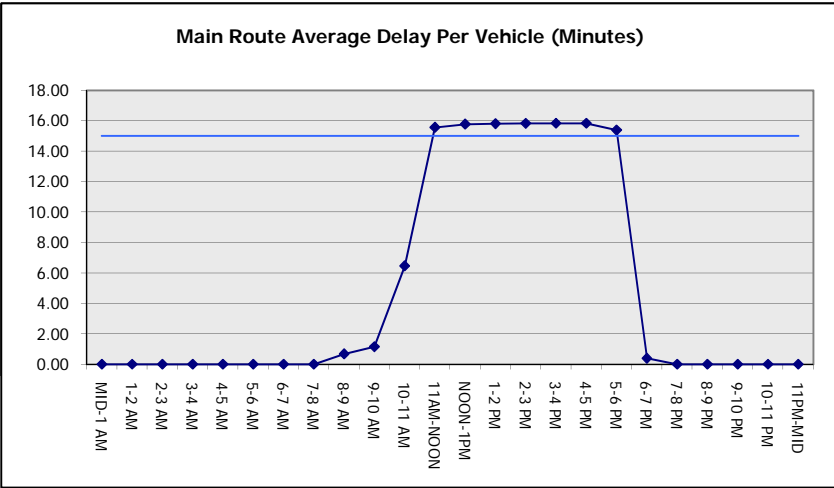
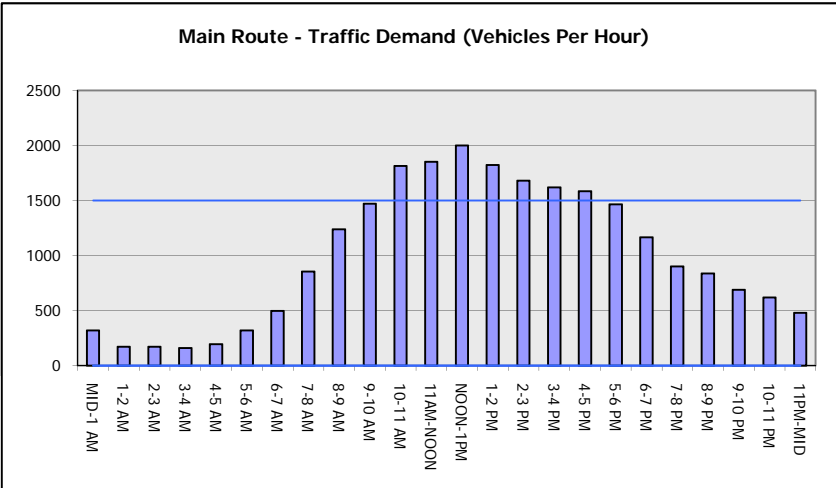
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0225
MAIN ROUTE WITH WORKS	0.0201
'DIVERSION'	0.0033
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$55,150
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	337	0.0	OFF	337	0	0.00	0	65.8	65.8	65.8
1-2 AM	185	0.0	OFF	185	0	0.00	0	66.0	66.0	66.0
2-3 AM	183	0.0	OFF	183	0	0.00	0	66.1	66.1	66.1
3-4 AM	124	0.0	OFF	124	0	0.00	0	66.1	66.1	66.1
4-5 AM	155	0.0	OFF	155	0	0.00	0	66.1	66.1	66.1
5-6 AM	240	0.0	OFF	240	0	0.00	0	66.0	66.0	66.0
6-7 AM	391	0.0	OFF	391	0	0.00	0	65.6	65.6	65.6
7-8 AM	587	0.0	OFF	587	0	0.00	0	65.3	65.3	65.3
8-9 AM	905	0.0	1500	905	0	0.51	0	64.7	59.2	42.0
9-10 AM	1192	0.0	1499	1192	0	0.63	0	64.1	57.6	38.7
10-11 AM	1606	0.0	1499	1606	0	2.36	39	63.4	44.6	30.8
11AM-NOON	1617	0.0	1499	1617	0	6.83	159	63.3	28.5	30.8
NOON-1PM	1745	0.0	1500	1681	64	13.08+	332	63.2	18.9	30.8
1-2 PM	1735	0.0	1500	1500	235	15.81+	400	63.2	16.5	30.8
2-3 PM	1774	0.0	1500	1500	274	15.81+	400	63.1	16.5	30.8
3-4 PM	1728	0.0	1500	1500	228	15.82+	400	63.2	16.5	30.8
4-5 PM	1745	0.0	1500	1500	245	15.81+	400	63.2	16.5	30.8
5-6 PM	1569	0.0	1500	1492	77	15.80+	399	63.5	16.6	30.8
6-7 PM	1165	0.0	OFF	1165	0	0.48	27	64.2	59.1	59.1
7-8 PM	959	0.0	OFF	959	0	0.00	0	64.6	64.6	64.6
8-9 PM	988	0.0	OFF	988	0	0.00	0	64.5	64.5	64.5
9-10 PM	1006	0.0	OFF	1006	0	0.00	0	64.5	64.5	64.5
10-11 PM	838	0.0	OFF	838	0	0.00	0	64.8	64.8	64.8
11PM-MID	470	0.0	OFF	470	0	0.00	0	65.5	65.5	65.5

"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	0.0218
MAIN ROUTE WITH WORKS	0.0198
'DIVERSION'	0.0024

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$47,278
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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