

**USH 41/45: USH 41 & USH 45 TO CTH Q (WASHINGTON COUNTY)  
NIGHTTIME 2 LANE CLOSURE  
DIVERSION ROUTE: STH 167 - STH 175 - PIONEER RD**

**AUGUST**

Analyzed for 2009  
Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY SOUTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH								
	MAIN ROUTE		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	390	0.0	26	0.0	1500	390	0	26	0.52	0	70.2	55.5	43.9	24.7	24.7
1-2 AM	234	0.0	15	0.0	1500	234	0	15	0.50	0	70.2	55.9	44.5	24.7	24.7
2-3 AM	211	0.0	14	0.0	1500	211	0	14	0.50	0	70.2	56.0	44.6	24.7	24.7
3-4 AM	282	0.0	19	0.0	1500	282	0	19	0.51	0	70.2	55.8	44.3	24.7	24.7
4-5 AM	596	0.0	40	0.0	1500	596	0	40	0.54	0	70.0	54.8	43.2	24.5	24.5
5-6 AM	1743	0.0	117	0.0	OFF	1743	0	117	0.00	0	68.6	68.6	68.6	24.0	24.0
6-7 AM	3455	0.0	233	0.0	OFF	3455	0	233	0.00	0	66.4	66.4	66.4	23.0	23.0
7-8 AM	3991	0.0	269	0.0	OFF	3991	0	269	0.00	0	63.6	63.6	63.6	22.8	22.8
8-9 AM	2719	0.0	182	0.0	OFF	2719	0	182	0.00	0	67.4	67.4	67.4	23.4	23.4
9-10 AM	2294	0.0	154	0.0	OFF	2294	0	154	0.00	0	67.9	67.9	67.9	23.7	23.7
10-11 AM	2271	0.0	152	0.0	OFF	2271	0	152	0.00	0	67.9	67.9	67.9	23.7	23.7
11A-NOON	2398	0.0	161	0.0	OFF	2398	0	161	0.00	0	67.8	67.8	67.8	23.6	23.6
NOON-1PM	2506	0.0	169	0.0	OFF	2506	0	169	0.00	0	67.6	67.6	67.6	23.5	23.5
1-2 PM	2516	0.0	169	0.0	OFF	2516	0	169	0.00	0	67.6	67.6	67.6	23.5	23.5
2-3 PM	2766	0.0	186	0.0	OFF	2766	0	186	0.00	0	67.3	67.3	67.3	23.4	23.4
3-4 PM	2978	0.0	200	0.0	OFF	2978	0	200	0.00	0	67.0	67.0	67.0	23.3	23.3
4-5 PM	2797	0.0	188	0.0	OFF	2797	0	188	0.00	0	67.3	67.3	67.3	23.4	23.4
5-6 PM	2611	0.0	175	0.0	OFF	2611	0	175	0.00	0	67.5	67.5	67.5	23.5	23.5
6-7 PM	2146	0.0	144	0.0	OFF	2146	0	144	0.00	0	68.1	68.1	68.1	23.7	23.7
7-8 PM	1576	0.0	106	0.0	1499	1576	0	106	3.47	64	68.7	25.2	30.8	24.0	24.0
8-9 PM	1294	0.0	86	0.0	1500	1294	0	86	1.37	18	69.1	41.0	34.9	24.2	24.2
9-10 PM	1198	0.0	80	0.0	1500	1198	0	80	0.70	0	69.2	51.2	38.5	24.2	24.2
10-11 PM	981	0.0	66	0.0	1500	981	0	66	0.58	0	69.5	53.7	41.7	24.3	24.3
11PM-MID	810	0.0	55	0.0	1500	810	0	55	0.57	0	69.7	54.2	42.4	24.4	24.4

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)		
MAIN ROUTE WITHOUT WORKS		0.0164
MAIN ROUTE WITH WORKS		0.0159
DIVERSION		0.0145

PIA: Personal Injury Accidents

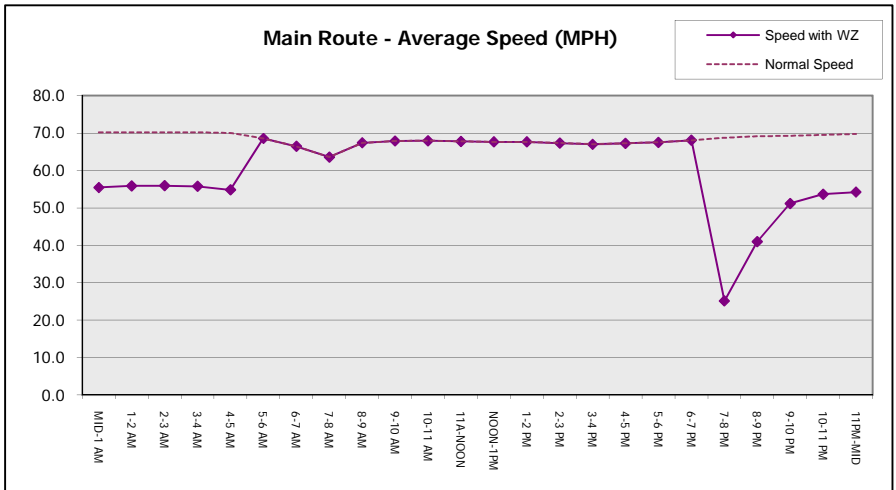
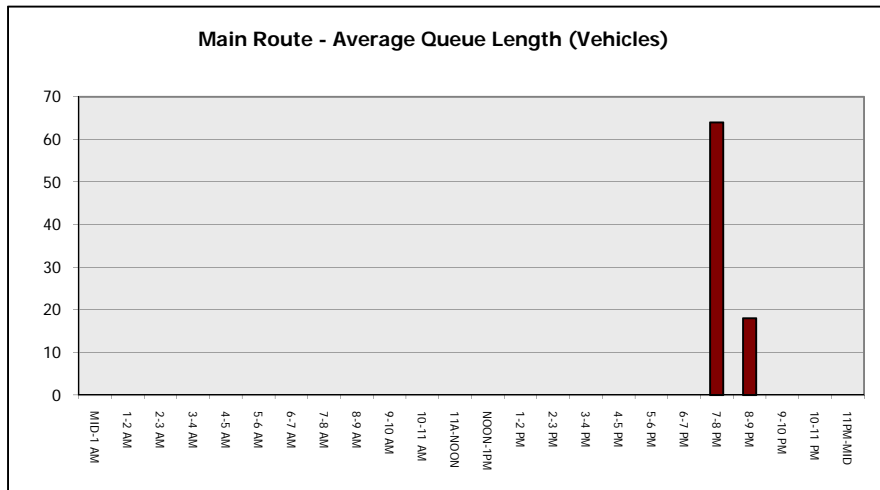
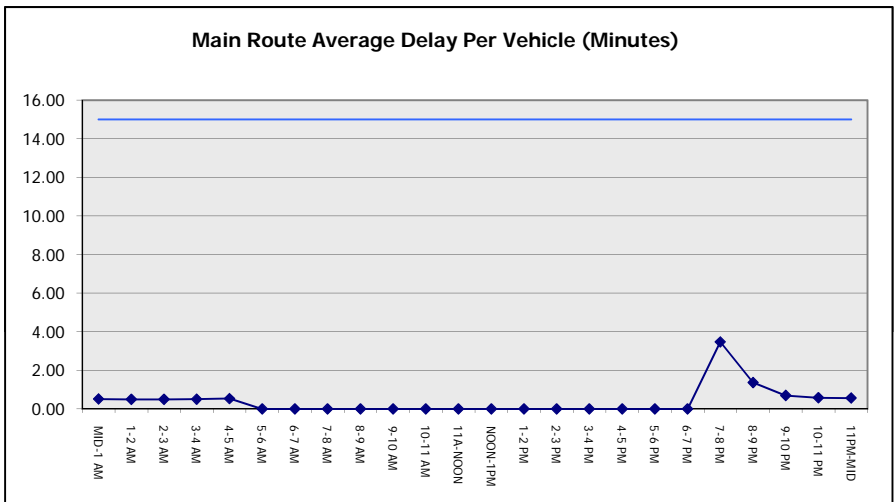
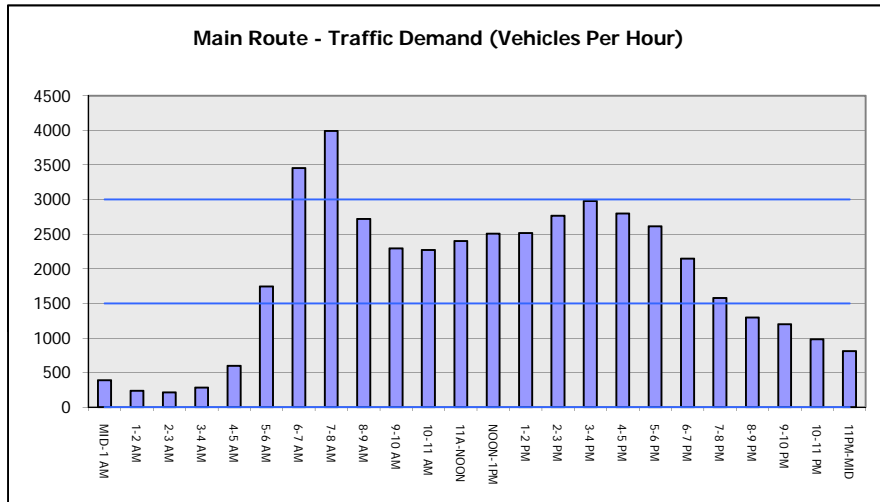
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$2,421
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 41/45: USH 41 & USH 45 TO CTH Q (WASHINGTON COUNTY)**  
**NIGHTTIME 2 LANE CLOSURE**  
**DIVERSION ROUTE: STH 167 - STH 175 - PIONEER RD**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY SOUTHBOUND DIRECTION**



<b>USH 41/45: USH 41 &amp; USH 45 TO CTH Q (WASHINGTON COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: STH 167 - STH 175 - PIONEER RD</b>	<b>AUGUST</b> Analyzed for 2009 Construction Season
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<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
FRIDAY	NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	398	0.0	27	0.0	1500	398	0	27	0.52	0	70.2	55.5	43.9	24.7	24.7
1-2 AM	267	0.0	17	0.0	1500	267	0	17	0.50	0	70.2	55.8	44.4	24.7	24.7
2-3 AM	251	0.0	16	0.0	1500	251	0	16	0.50	0	70.2	55.9	44.5	24.7	24.7
3-4 AM	225	0.0	15	0.0	1500	225	0	15	0.50	0	70.2	56.0	44.6	24.7	24.7
4-5 AM	458	0.0	31	0.0	1500	458	0	31	0.53	0	70.2	55.3	43.7	24.6	24.6
5-6 AM	1144	0.0	77	0.0	OFF	1144	0	77	0.00	0	69.3	69.3	69.3	24.2	24.2
6-7 AM	2004	0.0	135	0.0	OFF	2004	0	135	0.00	0	68.2	68.2	68.2	23.8	23.8
7-8 AM	2091	0.0	141	0.0	OFF	2091	0	141	0.00	0	68.1	68.1	68.1	23.8	23.8
8-9 AM	1946	0.0	131	0.0	OFF	1946	0	131	0.00	0	68.3	68.3	68.3	23.8	23.8
9-10 AM	1996	0.0	134	0.0	OFF	1996	0	134	0.00	0	68.2	68.2	68.2	23.8	23.8
10-11 AM	2227	0.0	149	0.0	OFF	2227	0	149	0.00	0	67.9	67.9	67.9	23.7	23.7
11A-NOON	2584	0.0	174	0.0	OFF	2584	0	174	0.00	0	67.5	67.5	67.5	23.5	23.5
NOON-1PM	2824	0.0	189	0.0	OFF	2824	0	189	0.00	0	67.3	67.3	67.3	23.4	23.4
1-2 PM	2937	0.0	198	0.0	OFF	2937	0	198	0.00	0	67.1	67.1	67.1	23.3	23.3
2-3 PM	3664	0.0	246	0.0	OFF	3664	0	246	0.00	0	65.8	65.8	65.8	23.0	23.0
3-4 PM	4173	0.0	280	0.0	OFF	4173	0	280	0.00	0	62.3	62.3	62.3	22.7	22.7
4-5 PM	4545	0.0	306	0.0	OFF	4545	0	306	0.00	0	59.8	59.8	59.8	22.5	22.5
5-6 PM	4218	0.0	283	0.0	OFF	4218	0	283	0.00	0	62.0	62.0	62.0	22.7	22.7
6-7 PM	2900	0.0	195	0.0	OFF	2900	0	195	0.00	0	67.1	67.1	67.1	23.3	23.3
7-8 PM	2033	0.0	137	0.0	1499	1725	308	445	8.99	215	68.2	12.5	31.3	23.8	21.4
8-9 PM	1691	0.0	113	0.0	1500	1473	218	332	9.02	207	68.6	12.5	30.8	24.0	22.3
9-10 PM	1555	0.0	105	0.0	1500	1490	65	170	8.45	192	68.8	13.2	30.8	24.0	23.5
10-11 PM	1457	0.0	98	0.0	1500	1442	14	112	7.72	174	68.9	14.2	30.8	24.1	24.0
11PM-MID	972	0.0	65	0.0	1500	972	0	65	1.07	21	69.6	45.1	40.7	24.3	24.3

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0178
MAIN ROUTE WITH WORKS	0.0170
DIVERSION	0.0186

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$14,473
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 41/45: USH 41 & USH 45 TO CTH Q (WASHINGTON COUNTY)**  
**NIGHTTIME 2 LANE CLOSURE**  
**DIVERSION ROUTE: STH 167 - STH 175 - PIONEER RD**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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

