

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

OCTOBER

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	287	0.0	20	0.0	1500	287	0	20	0.51	0	70.2	55.8	44.3	24.7	24.7
1-2 AM	187	0.0	12	0.0	1500	187	0	12	0.50	0	70.2	56.1	44.7	24.7	24.7
2-3 AM	204	0.0	13	0.0	1500	204	0	13	0.50	0	70.2	56.0	44.6	24.7	24.7
3-4 AM	279	0.0	19	0.0	1500	279	0	19	0.51	0	70.2	55.8	44.3	24.7	24.7
4-5 AM	545	0.0	37	0.0	1500	545	0	37	0.54	0	70.0	55.0	43.3	24.5	24.5
5-6 AM	1821	0.0	123	0.0	OFF	1821	0	123	0.00	0	68.5	68.5	68.5	23.9	23.9
6-7 AM	3736	0.0	251	0.0	OFF	3736	0	251	0.00	0	65.3	65.3	65.3	22.9	22.9
7-8 AM	4068	0.0	274	0.0	OFF	4068	0	274	0.00	0	63.0	63.0	63.0	22.7	22.7
8-9 AM	2698	0.0	181	0.0	OFF	2698	0	181	0.00	0	67.4	67.4	67.4	23.5	23.5
9-10 AM	2140	0.0	144	0.0	OFF	2140	0	144	0.00	0	68.1	68.1	68.1	23.7	23.7
10-11 AM	2112	0.0	142	0.0	OFF	2112	0	142	0.00	0	68.1	68.1	68.1	23.7	23.7
11A-NOON	2175	0.0	146	0.0	OFF	2175	0	146	0.00	0	68.0	68.0	68.0	23.7	23.7
NOON-1PM	2359	0.0	159	0.0	OFF	2359	0	159	0.00	0	67.8	67.8	67.8	23.6	23.6
1-2 PM	2366	0.0	159	0.0	OFF	2366	0	159	0.00	0	67.8	67.8	67.8	23.6	23.6
2-3 PM	2656	0.0	178	0.0	OFF	2656	0	178	0.00	0	67.4	67.4	67.4	23.5	23.5
3-4 PM	2781	0.0	187	0.0	OFF	2781	0	187	0.00	0	67.3	67.3	67.3	23.4	23.4
4-5 PM	2782	0.0	187	0.0	OFF	2782	0	187	0.00	0	67.3	67.3	67.3	23.4	23.4
5-6 PM	2568	0.0	173	0.0	OFF	2568	0	173	0.00	0	67.6	67.6	67.6	23.5	23.5
6-7 PM	2201	0.0	148	0.0	OFF	2201	0	148	0.00	0	68.0	68.0	68.0	23.7	23.7
7-8 PM	1557	0.0	105	0.0	1499	1557	0	105	3.33	60	68.8	25.8	30.8	24.0	24.0
8-9 PM	1198	0.0	80	0.0	1500	1198	0	80	0.89	6	69.2	47.9	38.3	24.2	24.2
9-10 PM	1164	0.0	78	0.0	1500	1164	0	78	0.66	0	69.3	52.0	39.6	24.2	24.2
10-11 PM	946	0.0	64	0.0	1500	946	0	64	0.58	0	69.6	53.8	41.9	24.3	24.3
11PM-MID	755	0.0	50	0.0	1500	755	0	50	0.56	0	69.8	54.4	42.5	24.5	24.5

"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		0.0159
MAIN ROUTE WITH WORKS		0.0155
DIVERSION		0.0141

PIA: Personal Injury Accidents

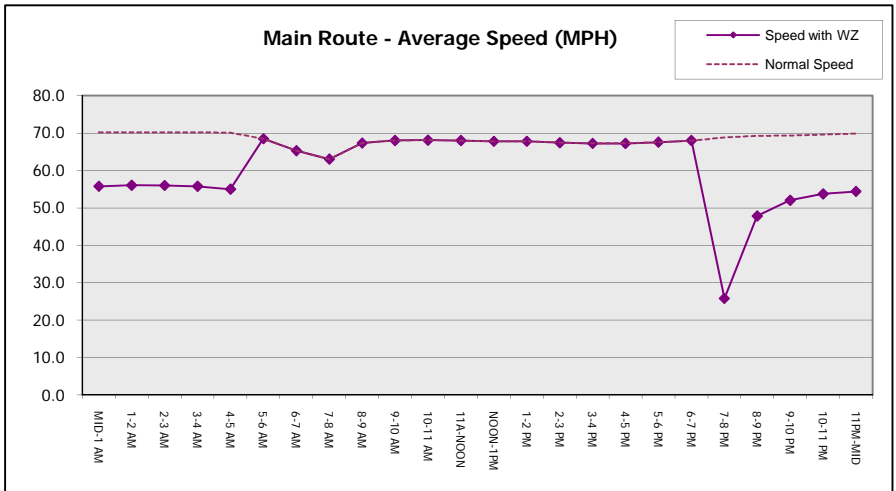
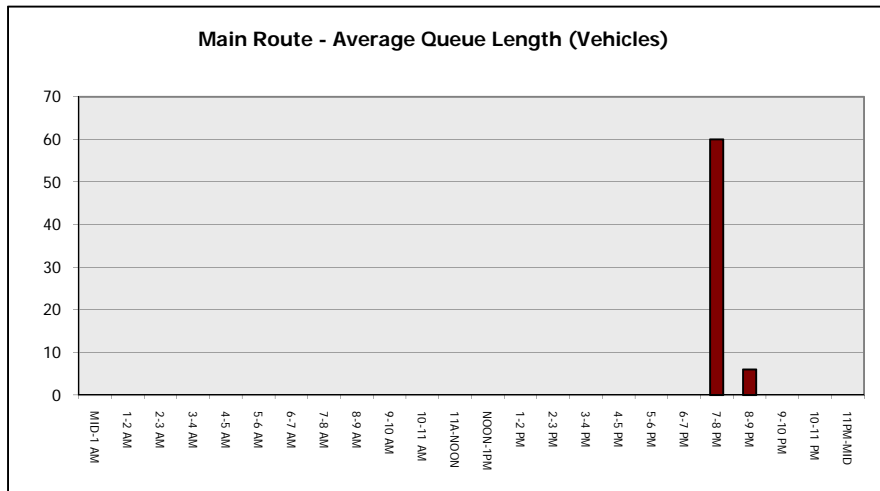
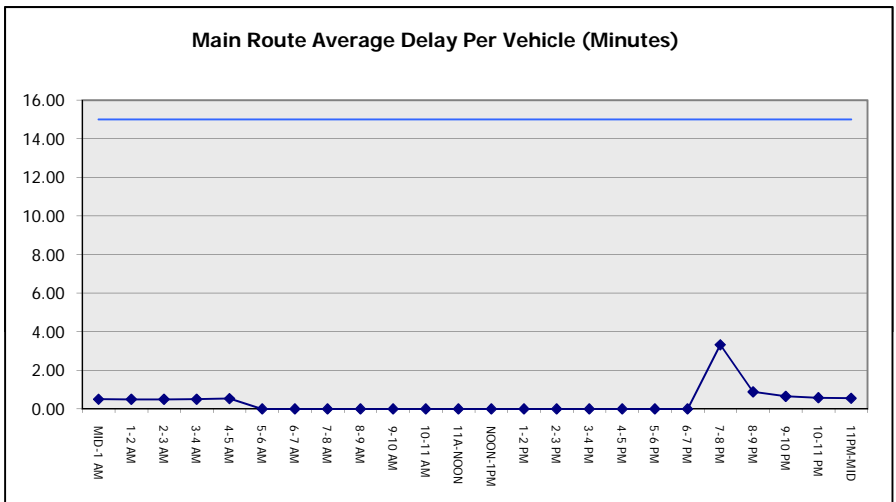
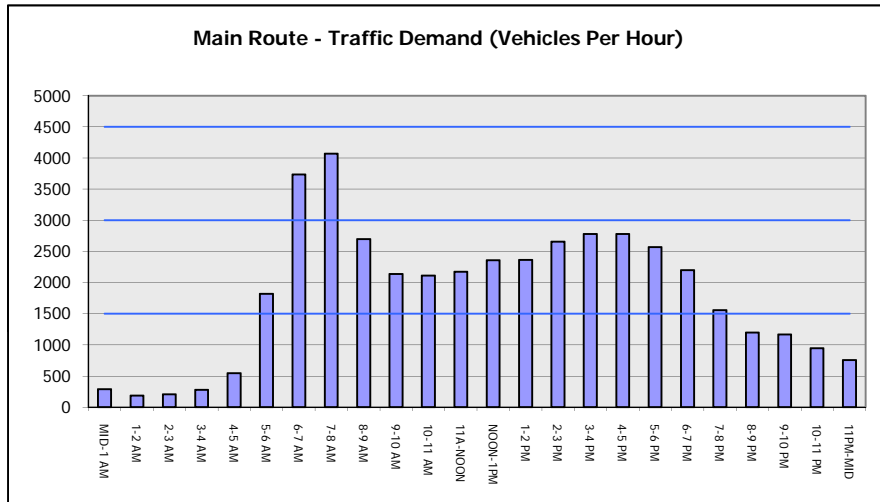
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$2,087
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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NIGHTTIME 2 LANE CLOSURE
DIVERSION ROUTE: STH 167 - STH 175 - PIONEER RD

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



USH 41/45: USH 41 & USH 45 TO CTH Q (WASHINGTON COUNTY) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: STH 167 - STH 175 - PIONEER RD	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

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	345	0.0	24	0.0	1500	345	0	24	0.51	0	70.2	55.6	44.1	24.7	24.7
1-2 AM	241	0.0	16	0.0	1500	241	0	16	0.50	0	70.2	55.9	44.5	24.7	24.7
2-3 AM	230	0.0	15	0.0	1500	230	0	15	0.50	0	70.2	56.0	44.6	24.7	24.7
3-4 AM	246	0.0	16	0.0	1500	246	0	16	0.50	0	70.2	55.9	44.5	24.7	24.7
4-5 AM	482	0.0	32	0.0	1500	482	0	32	0.53	0	70.1	55.2	43.6	24.6	24.6
5-6 AM	1151	0.0	77	0.0	OFF	1151	0	77	0.00	0	69.3	69.3	69.3	24.2	24.2
6-7 AM	1958	0.0	132	0.0	OFF	1958	0	132	0.00	0	68.3	68.3	68.3	23.8	23.8
7-8 AM	2117	0.0	142	0.0	OFF	2117	0	142	0.00	0	68.1	68.1	68.1	23.7	23.7
8-9 AM	1912	0.0	129	0.0	OFF	1912	0	129	0.00	0	68.4	68.4	68.4	23.8	23.8
9-10 AM	1869	0.0	126	0.0	OFF	1869	0	126	0.00	0	68.4	68.4	68.4	23.8	23.8
10-11 AM	2110	0.0	142	0.0	OFF	2110	0	142	0.00	0	68.1	68.1	68.1	23.7	23.7
11A-NOON	2439	0.0	164	0.0	OFF	2439	0	164	0.00	0	67.7	67.7	67.7	23.6	23.6
NOON-1PM	2655	0.0	178	0.0	OFF	2655	0	178	0.00	0	67.4	67.4	67.4	23.5	23.5
1-2 PM	2821	0.0	190	0.0	OFF	2821	0	190	0.00	0	67.3	67.3	67.3	23.4	23.4
2-3 PM	3442	0.0	232	0.0	OFF	3442	0	232	0.00	0	66.4	66.4	66.4	23.0	23.0
3-4 PM	4258	0.0	286	0.0	OFF	4258	0	286	0.00	0	61.8	61.8	61.8	22.7	22.7
4-5 PM	4826	0.0	324	0.0	OFF	4826	0	324	0.00	0	57.9	57.9	57.9	22.4	22.4
5-6 PM	3995	0.0	269	0.0	OFF	3995	0	269	0.00	0	63.6	63.6	63.6	22.8	22.8
6-7 PM	2845	0.0	192	0.0	OFF	2845	0	192	0.00	0	67.2	67.2	67.2	23.3	23.3
7-8 PM	1826	0.0	123	0.0	1499	1700	127	249	7.21	168	68.4	15.0	30.8	23.9	22.9
8-9 PM	1466	0.0	99	0.0	1500	1447	19	117	7.88	178	68.9	14.0	30.8	24.1	23.9
9-10 PM	1459	0.0	98	0.0	1500	1459	0	98	6.38	138	68.9	16.5	30.8	24.1	24.1
10-11 PM	1059	0.0	71	0.0	1500	1059	0	71	0.99	15	69.4	46.3	40.2	24.3	24.3
11PM-MID	763	0.0	51	0.0	1500	763	0	51	0.56	0	69.8	54.3	42.5	24.5	24.5

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

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(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	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(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	0.0170
MAIN ROUTE WITH WORKS	0.0164
DIVERSION	0.0158

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$8,639
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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FRIDAY NORTHBOUND DIRECTION

