

**USH 12/18: VERONA RD TO USH 51 (DANE COUNTY)  
CONTINUOUS (24 HOUR) CLOSURE  
DIVERSION ROUTE: MONONA DR - CTH BW**

**OCTOBER**

Analyzed for 2009  
Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY WESTBOUND 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	736	0.0	42	0.0	3000	736	0	42	0.22	0	60.2	52.6	49.7	29.7	29.7
1-2 AM	380	0.0	26	0.0	3000	380	0	26	0.22	0	60.2	52.6	49.7	29.7	29.7
2-3 AM	285	0.0	20	0.0	3000	285	0	20	0.22	0	60.2	52.6	49.7	29.7	29.7
3-4 AM	237	0.0	14	0.0	3000	237	0	14	0.22	0	60.2	52.6	49.7	29.7	29.7
4-5 AM	273	0.0	27	0.0	3000	273	0	27	0.22	0	60.2	52.6	49.7	29.7	29.7
5-6 AM	457	0.0	198	0.0	3000	457	0	198	0.22	0	60.2	52.6	49.7	29.1	29.1
6-7 AM	1351	0.0	599	0.0	3000	1351	0	599	0.22	0	60.2	52.6	49.7	27.7	27.7
7-8 AM	3825	0.0	1014	0.0	2999	3197	628	1641+	2.62	123	60.2	22.5	37.3	26.3	24.3
8-9 AM	5794	0.0	644	0.0	3000	3065	2729	3373+	4.88	254	51.3	15.3	37.3	27.6	18.8
9-10 AM	4718	0.0	439	0.0	2999	2892	1826	2265+	3.84	183	58.6	17.8	37.7	28.3	22.2
10-11 AM	3525	0.0	463	0.0	2999	2963	561	1024	2.87	125	60.2	20.8	37.4	28.2	26.3
11A-NOON	3332	0.0	593	0.0	3000	3006	326	919	2.80	121	60.2	21.1	37.3	27.7	26.6
NOON-1PM	3552	0.0	812	0.0	3000	3017	535	1347+	3.07	136	60.2	20.1	37.3	27.0	25.3
1-2 PM	3851	0.0	654	0.0	3000	3003	848	1503+	3.18	142	60.2	19.7	37.3	27.5	24.8
2-3 PM	3937	0.0	575	0.0	3000	3001	936	1511+	3.19	142	60.2	19.7	37.3	27.8	24.8
3-4 PM	4129	0.0	567	0.0	3000	3012	1117	1684+	3.32	150	60.2	19.3	37.3	27.8	24.2
4-5 PM	4536	0.0	655	0.0	3000	3026	1510	2165+	3.76	175	59.9	18.1	37.3	27.5	22.5
5-6 PM	4650	0.0	607	0.0	3000	2995	1655	2262+	3.85	181	59.1	17.8	37.3	27.7	22.2
6-7 PM	4328	0.0	435	0.0	2999	2967	1361	1796+	3.43	156	60.2	18.9	37.3	28.3	23.8
7-8 PM	3697	0.0	309	0.0	3000	2968	729	1037	2.88	125	60.2	20.7	37.3	28.8	26.3
8-9 PM	2689	0.0	244	0.0	2999	2685	4	248	0.94	42	60.2	36.9	42.2	28.9	28.9
9-10 PM	2167	0.0	193	0.0	3000	2167	0	193	0.22	0	60.2	52.6	49.7	29.1	29.1
10-11 PM	1887	0.0	141	0.0	3000	1887	0	141	0.22	0	60.2	52.6	49.7	29.3	29.3
11PM-MID	1519	0.0	93	0.0	3000	1519	0	93	0.22	0	60.2	52.6	49.7	29.5	29.5

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

*----- 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	0.0157
MAIN ROUTE WITH WORKS	0.0088
DIVERSION	0.0641

PIA: Personal Injury Accidents

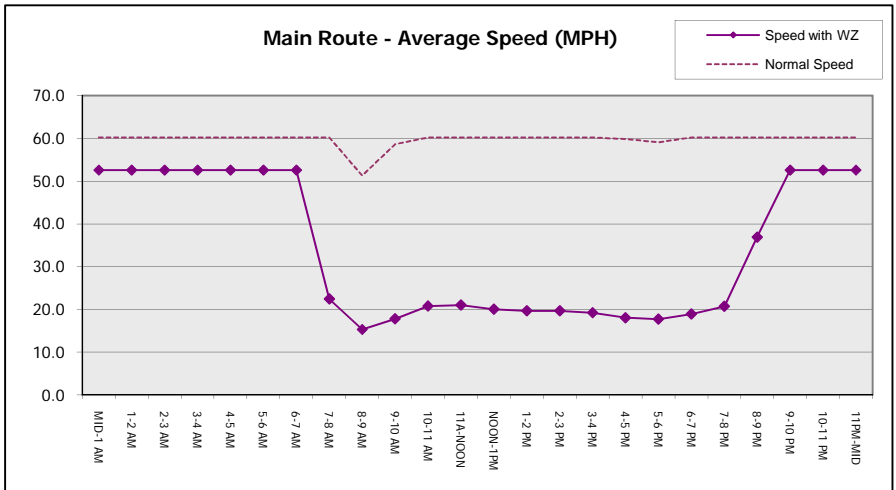
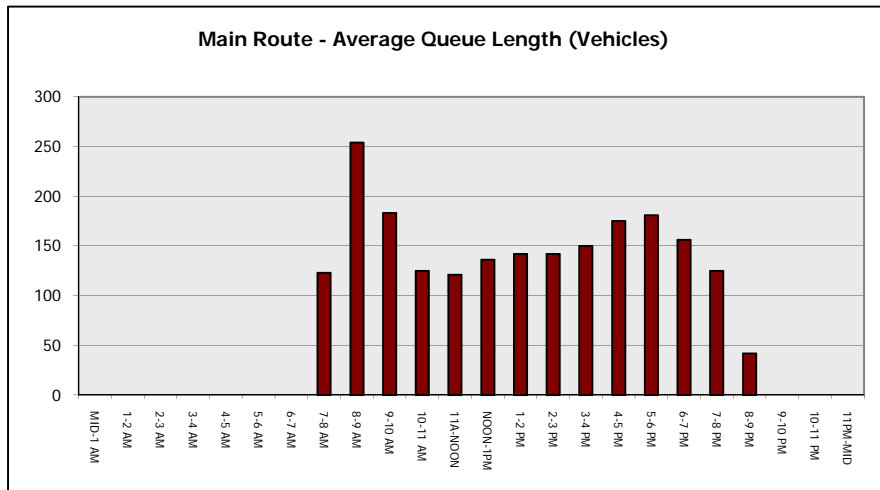
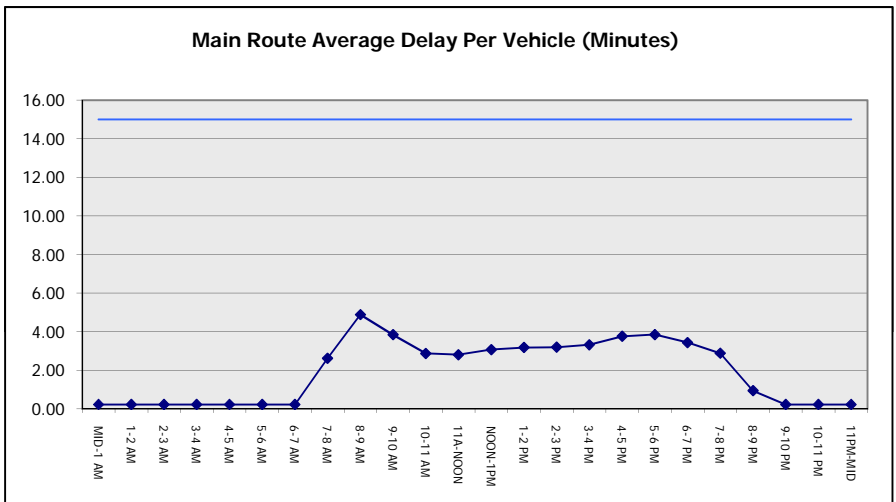
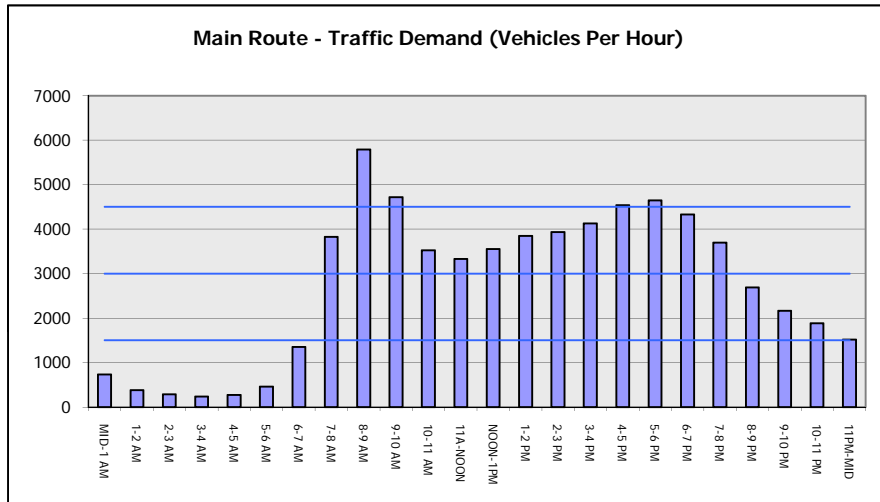
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$46,033
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 12/18: VERONA RD TO USH 51 (DANE COUNTY)**  
**CONTINUOUS (24 HOUR) CLOSURE**  
**DIVERSION ROUTE: MONONA DR - CTH BW**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

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



<b>USH 12/18: VERONA RD TO USH 51 (DANE COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: MONONA DR - CTH BW</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY EASTBOUND 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	729	0.0	33	0.0	3000	729	0	33	0.22	0	60.2	52.6	49.7	29.7	29.7
1-2 AM	460	0.0	27	0.0	3000	460	0	27	0.22	0	60.2	52.6	49.7	29.7	29.7
2-3 AM	272	0.0	22	0.0	3000	272	0	22	0.22	0	60.2	52.6	49.7	29.7	29.7
3-4 AM	250	0.0	7	0.0	3000	250	0	7	0.22	0	60.2	52.6	49.7	29.8	29.8
4-5 AM	253	0.0	14	0.0	3000	253	0	14	0.22	0	60.2	52.6	49.7	29.7	29.7
5-6 AM	413	0.0	59	0.0	3000	413	0	59	0.22	0	60.2	52.6	49.7	29.6	29.6
6-7 AM	1113	0.0	143	0.0	3000	1113	0	143	0.22	0	60.2	52.6	49.7	29.3	29.3
7-8 AM	2475	0.0	254	0.0	2999	2475	0	254	0.35	0	60.2	48.7	44.8	28.9	28.9
8-9 AM	3983	0.0	279	0.0	2999	3117	866	1145	2.96	132	60.2	20.5	38.1	28.8	26.0
9-10 AM	3393	0.0	294	0.0	3000	2992	401	695	2.68	114	60.2	21.5	37.3	28.8	27.4
10-11 AM	2881	0.0	404	0.0	2999	2880	1	406	1.49	56	60.2	30.2	38.1	28.4	28.4
11A-NOON	3136	0.0	627	0.0	2999	3136	0	627	1.26	42	60.2	32.6	37.3	27.6	27.6
NOON-1PM	3687	0.0	651	0.0	2999	3006	681	1333+	3.06	135	60.2	20.1	37.3	27.5	25.3
1-2 PM	4033	0.0	567	0.0	2999	3008	1024	1591+	3.25	146	60.2	19.5	37.3	27.8	24.5
2-3 PM	4311	0.0	577	0.0	3000	3020	1291	1868+	3.48	159	60.2	18.8	37.3	27.8	23.6
3-4 PM	4903	0.0	805	0.0	3000	3055	1848	2653+	4.20	204	57.4	16.9	37.3	27.0	21.0
4-5 PM	5612	0.0	1019	0.0	3000	3059	2553	3572+	5.22	271	52.5	15.0	37.3	26.2	18.3
5-6 PM	5598	0.0	736	0.0	2999	2953	2645	3381+	4.95	255	52.6	15.3	37.3	27.2	18.8
6-7 PM	5029	0.0	401	0.0	2999	2933	2097	2498+	4.01	196	56.5	17.3	37.4	28.4	21.5
7-8 PM	3766	0.0	287	0.0	2999	2941	826	1113	2.93	129	60.2	20.6	37.4	28.8	26.0
8-9 PM	2474	0.0	226	0.0	3000	2474	0	226	0.54	19	60.2	44.1	45.6	29.0	29.0
9-10 PM	2090	0.0	176	0.0	3000	2090	0	176	0.22	0	60.2	52.6	49.7	29.2	29.2
10-11 PM	1887	0.0	114	0.0	3000	1887	0	114	0.22	0	60.2	52.6	49.7	29.4	29.4
11PM-MID	1504	0.0	76	0.0	3000	1504	0	76	0.22	0	60.2	52.6	49.7	29.6	29.6

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

*----- 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	0.0153
MAIN ROUTE WITH WORKS	0.0086
DIVERSION	0.0585

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$43,903
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE  
 DIVERSION ROUTE: MONONA DR - CTH BW**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

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

**FRIDAY EASTBOUND DIRECTION**

