

IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE DIVERSION ROUTE: BELTLINE - USH 51 - STH 30	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	607	0.0	318	0.0	OFF	607	0	318	0.00	0	70.0	70.0	70.0	33.5	33.5
1-2 AM	425	0.0	223	0.0	OFF	425	0	223	0.00	0	70.2	70.2	70.2	33.8	33.8
2-3 AM	370	0.0	194	0.0	OFF	370	0	194	0.00	0	70.2	70.2	70.2	34.0	34.0
3-4 AM	338	0.0	177	0.0	OFF	338	0	177	0.00	0	70.2	70.2	70.2	34.0	34.0
4-5 AM	382	0.0	200	0.0	OFF	382	0	200	0.00	0	70.2	70.2	70.2	34.0	34.0
5-6 AM	627	0.0	329	0.0	OFF	627	0	329	0.00	0	69.9	69.9	69.9	33.4	33.4
6-7 AM	971	0.0	509	0.0	OFF	971	0	509	0.00	0	69.6	69.6	69.6	32.7	32.7
7-8 AM	1600	0.0	839	0.0	OFF	1600	0	839	0.00	0	68.7	68.7	68.7	31.3	31.3
8-9 AM	2237	0.0	1173	0.0	1499	1831	406	1579+	9.42	240	67.9	18.5	30.8	29.9	28.2
9-10 AM	2623	0.0	1375	0.0	1500	1544	1079	2454+	14.76	359	67.5	13.1	30.8	29.1	24.5
10-11 AM	3004	0.0	1575	0.0	1499	1549	1455	3030+	16.72	411	67.0	11.8	30.8	28.2	22.2
11A-NOON	2994	0.0	1570	0.0	1500	1491	1504	3073+	16.89	415	67.0	11.7	30.8	28.3	22.0
NOON-1PM	2984	0.0	1564	0.0	1500	1496	1488	3053+	16.81	413	67.0	11.8	30.8	28.3	22.0
1-2 PM	2838	0.0	1488	0.0	1500	1486	1352	2840+	16.03	393	67.2	12.2	30.8	28.6	22.9
2-3 PM	3252	0.0	1705	0.0	1499	1572	1680	3385+	18.15	449	66.7	11.1	30.8	27.7	20.7
3-4 PM	3288	0.0	1723	0.0	1500	1490	1798	3522+	18.77	465	66.6	10.7	30.8	27.6	20.1
4-5 PM	2976	0.0	1560	0.0	1500	1447	1529	3089+	16.95	417	67.0	11.7	30.8	28.3	21.9
5-6 PM	2912	0.0	1527	0.0	1499	1487	1426	2952+	16.43	404	67.1	12.0	30.8	28.4	22.5
6-7 PM	2356	0.0	1236	0.0	OFF	2356	0	1236+	0.24	21	67.8	63.6	63.6	29.6	29.6
7-8 PM	1807	0.0	947	0.0	OFF	1807	0	947	0.00	0	68.5	68.5	68.5	30.8	30.8
8-9 PM	1399	0.0	734	0.0	OFF	1399	0	734	0.00	0	69.0	69.0	69.0	31.7	31.7
9-10 PM	1263	0.0	662	0.0	OFF	1263	0	662	0.00	0	69.2	69.2	69.2	32.0	32.0
10-11 PM	938	0.0	492	0.0	OFF	938	0	492	0.00	0	69.6	69.6	69.6	32.7	32.7
11PM-MID	663	0.0	347	0.0	OFF	663	0	347	0.00	0	69.9	69.9	69.9	33.3	33.3

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

+ 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	0.0273
MAIN ROUTE WITH WORKS	0.0175
DIVERSION	0.3792

PIA: Personal Injury Accidents

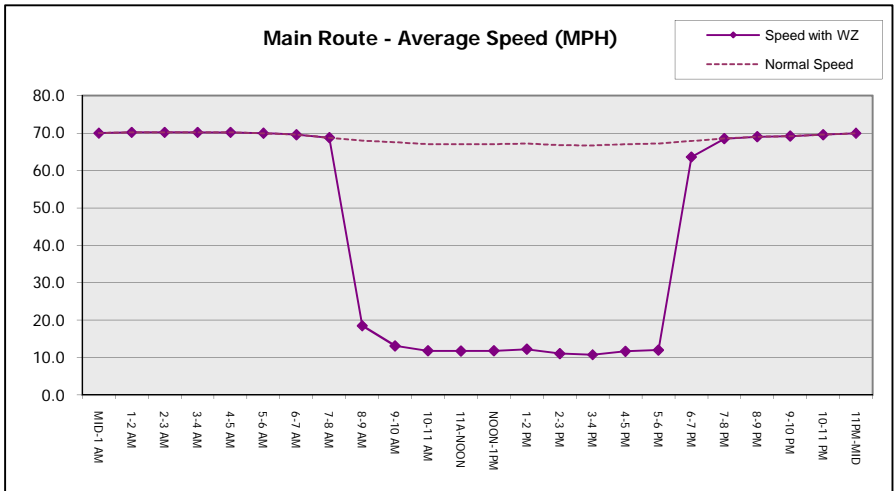
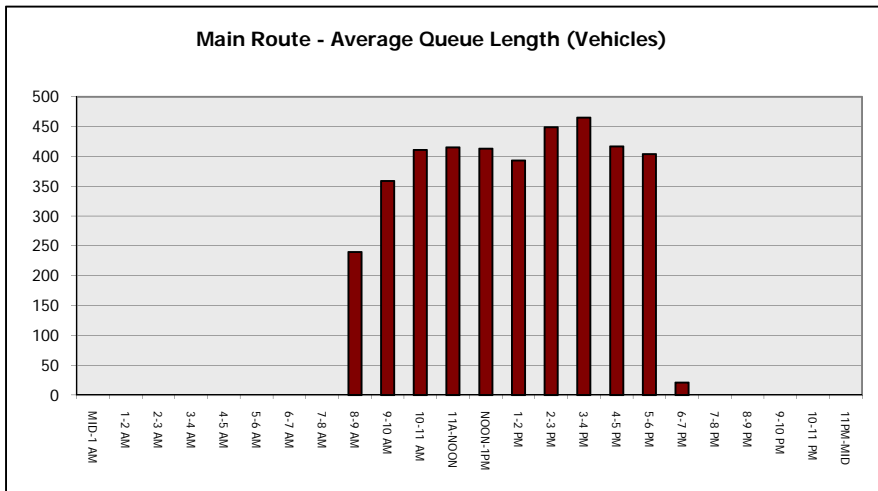
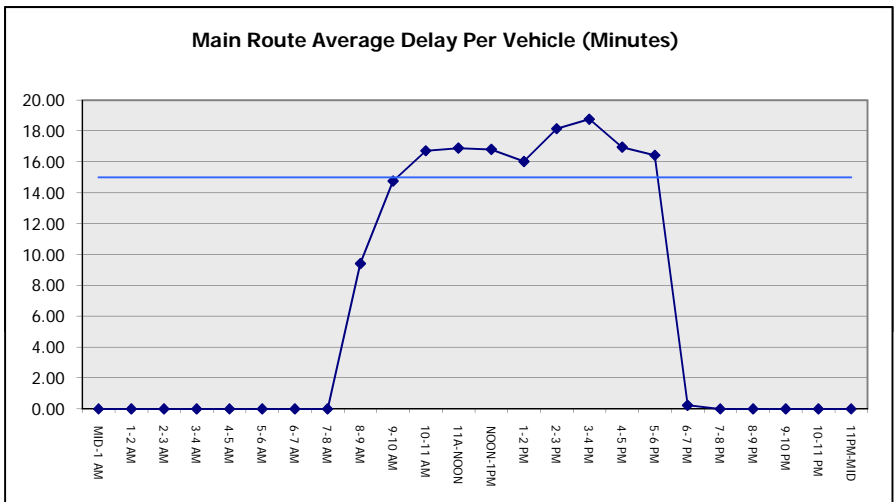
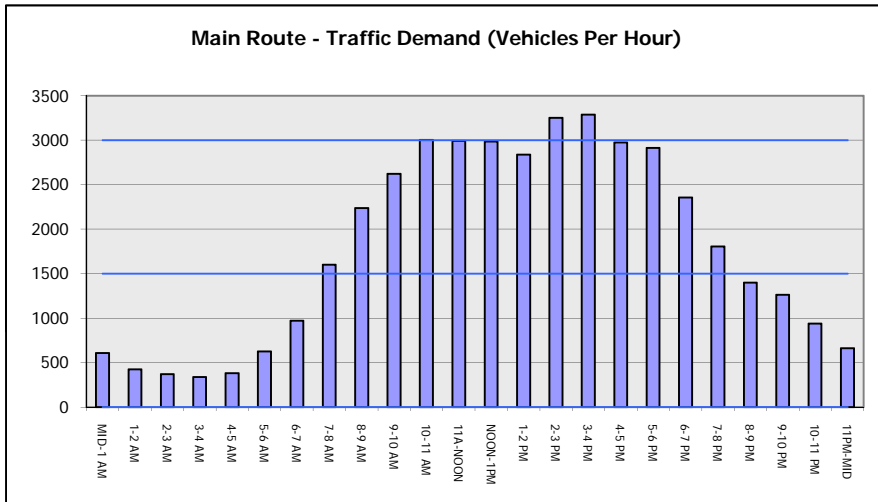
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$161,622
CONGESTED HOURS PER DAY*	8

*Delays Exceeding 15 Minutes

IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY)
OFF-PEAK DAY 2 LANE CLOSURE
DIVERSION ROUTE: BELTLINE - USH 51 - STH 30

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY WESTBOUND DIRECTION



IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE DIVERSION ROUTE: BELTLINE - USH 51 - STH 30	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH			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		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	526	0.0	276	0.0	OFF	526	0	276	0.00	0	70.0	70.0	70.0	33.6	33.6
1-2 AM	376	0.0	197	0.0	OFF	376	0	197	0.00	0	70.2	70.2	70.2	34.0	34.0
2-3 AM	343	0.0	180	0.0	OFF	343	0	180	0.00	0	70.2	70.2	70.2	34.0	34.0
3-4 AM	320	0.0	167	0.0	OFF	320	0	167	0.00	0	70.2	70.2	70.2	34.1	34.1
4-5 AM	369	0.0	194	0.0	OFF	369	0	194	0.00	0	70.2	70.2	70.2	34.0	34.0
5-6 AM	471	0.0	247	0.0	OFF	471	0	247	0.00	0	70.2	70.2	70.2	33.7	33.7
6-7 AM	886	0.0	465	0.0	OFF	886	0	465	0.00	0	69.6	69.6	69.6	32.9	32.9
7-8 AM	1502	0.0	787	0.0	OFF	1502	0	787	0.00	0	68.9	68.9	68.9	31.5	31.5
8-9 AM	2608	0.0	1368	0.0	1499	1888	720	2088+	12.37	314	67.5	15.1	30.8	29.1	26.1
9-10 AM	3086	0.0	1618	0.0	1499	1546	1540	3158+	17.22	424	66.9	11.6	30.8	28.0	21.6
10-11 AM	2825	0.0	1481	0.0	1500	1450	1375	2856+	16.09	394	67.3	12.2	30.8	28.6	22.9
11A-NOON	2705	0.0	1419	0.0	1499	1488	1217	2636+	15.34	374	67.4	12.7	30.8	28.9	23.8
NOON-1PM	2703	0.0	1417	0.0	1499	1501	1202	2619+	15.28	373	67.4	12.7	30.8	28.9	23.8
1-2 PM	2654	0.0	1391	0.0	1500	1493	1160	2551+	15.07	367	67.4	12.9	30.8	29.0	24.2
2-3 PM	2642	0.0	1385	0.0	1499	1499	1143	2529+	15.00	365	67.4	12.9	30.8	29.0	24.2
3-4 PM	2618	0.0	1372	0.0	1500	1498	1120	2492+	14.88	362	67.5	13.0	30.8	29.1	24.4
4-5 PM	2659	0.0	1394	0.0	1499	1503	1156	2550+	15.06	367	67.4	12.9	30.8	28.9	24.2
5-6 PM	2474	0.0	1297	0.0	1500	1473	1000	2297+	14.29	347	67.7	13.5	30.8	29.4	25.2
6-7 PM	2175	0.0	1141	0.0	OFF	2175	0	1141	0.17	15	68.0	64.9	64.9	30.0	30.0
7-8 PM	1798	0.0	943	0.0	OFF	1798	0	943	0.00	0	68.5	68.5	68.5	30.9	30.9
8-9 PM	1546	0.0	810	0.0	OFF	1546	0	810	0.00	0	68.8	68.8	68.8	31.4	31.4
9-10 PM	1302	0.0	682	0.0	OFF	1302	0	682	0.00	0	69.1	69.1	69.1	31.9	31.9
10-11 PM	1000	0.0	524	0.0	OFF	1000	0	524	0.00	0	69.5	69.5	69.5	32.6	32.6
11PM-MID	679	0.0	356	0.0	OFF	679	0	356	0.00	0	69.9	69.9	69.9	33.3	33.3

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

+ 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	0.0256
MAIN ROUTE WITH WORKS	0.0172
DIVERSION	0.3432

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$138,583
CONGESTED HOURS PER DAY*	6

*Delays Exceeding 15 Minutes

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OFF-PEAK DAY 2 LANE CLOSURE
DIVERSION ROUTE: BELTLINE - USH 51 - STH 30

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY EASTBOUND DIRECTION

