

IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: BELTLINE - USH 51 - STH 30	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	504	0.0	264	0.0	3000	504	0	264	0.36	0	70.1	63.5	49.7	33.7	33.7
1-2 AM	402	0.0	211	0.0	3000	402	0	211	0.36	0	70.2	63.5	49.7	33.9	33.9
2-3 AM	356	0.0	186	0.0	3000	356	0	186	0.36	0	70.2	63.5	49.7	34.0	34.0
3-4 AM	373	0.0	196	0.0	3000	373	0	196	0.36	0	70.2	63.5	49.7	34.0	34.0
4-5 AM	580	0.0	305	0.0	3000	580	0	305	0.36	0	70.0	63.4	49.7	33.5	33.5
5-6 AM	1090	0.0	571	0.0	3000	1090	0	571	0.35	0	69.4	63.0	49.7	32.4	32.4
6-7 AM	2268	0.0	1189	0.0	2999	2268	0	1189	0.39	0	67.9	61.2	47.4	29.8	29.8
7-8 AM	3540	0.0	1856	0.0	2999	3540	0	1856+	4.45	245	66.3	29.7	37.3	27.0	27.0
8-9 AM	3049	0.0	1598	0.0	2999	3049	0	1598+	11.48	593	66.9	15.9	37.3	28.1	28.1
9-10 AM	2621	0.0	1374	0.0	2999	2621	0	1374+	7.78	405	67.5	21.2	37.5	29.1	29.1
10-11 AM	2850	0.0	1494	0.0	3000	2850	0	1494+	2.79	117	67.2	37.8	37.4	28.6	28.6
11A-NOON	3177	0.0	1665	0.0	3000	3177	0	1665+	3.00	131	66.8	36.5	37.3	27.8	27.8
NOON-1PM	3417	0.0	1792	0.0	3000	3417	0	1792+	8.16	429	66.5	20.4	37.3	27.3	27.3
1-2 PM	3675	0.0	1926	0.0	2999	3167	508	2434+	14.67	773	65.8	13.4	37.3	26.8	24.8
2-3 PM	3959	0.0	2076	0.0	3000	3110	849	2925+	16.30	869	63.8	12.7	37.3	26.1	23.0
3-4 PM	4714	0.0	2472	0.0	3000	3356	1358	3830+	20.51	1127	58.7	11.4	37.3	24.5	19.7
4-5 PM	5035	0.0	2640	0.0	2999	3177	1858	4498+	25.35	1407	56.4	10.4	37.3	23.8	17.2
5-6 PM	4568	0.0	2395	0.0	2999	2673	1895	4290+	24.02	1317	59.6	10.7	37.3	24.8	17.9
6-7 PM	3545	0.0	1858	0.0	3000	2573	972	2831+	16.26	866	66.3	12.8	37.3	27.0	23.3
7-8 PM	2725	0.0	1428	0.0	2999	2665	60	1488+	10.74	560	67.4	16.8	37.3	28.8	28.6
8-9 PM	2215	0.0	1162	0.0	2999	2215	0	1162	1.61	104	68.0	46.7	46.7	29.9	29.9
9-10 PM	1820	0.0	954	0.0	3000	1820	0	954	0.34	0	68.5	62.5	49.7	30.8	30.8
10-11 PM	1323	0.0	694	0.0	3000	1323	0	694	0.35	0	69.1	62.8	49.7	31.9	31.9
11PM-MID	861	0.0	451	0.0	3000	861	0	451	0.35	0	69.7	63.2	49.7	32.9	32.9

+ 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	0.0374
MAIN ROUTE WITH WORKS	0.0292
DIVERSION	0.4010

PIA: Personal Injury Accidents

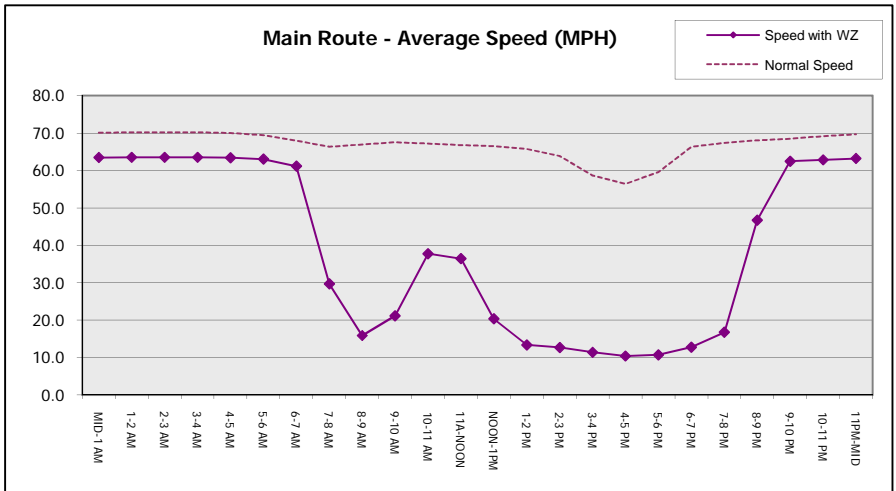
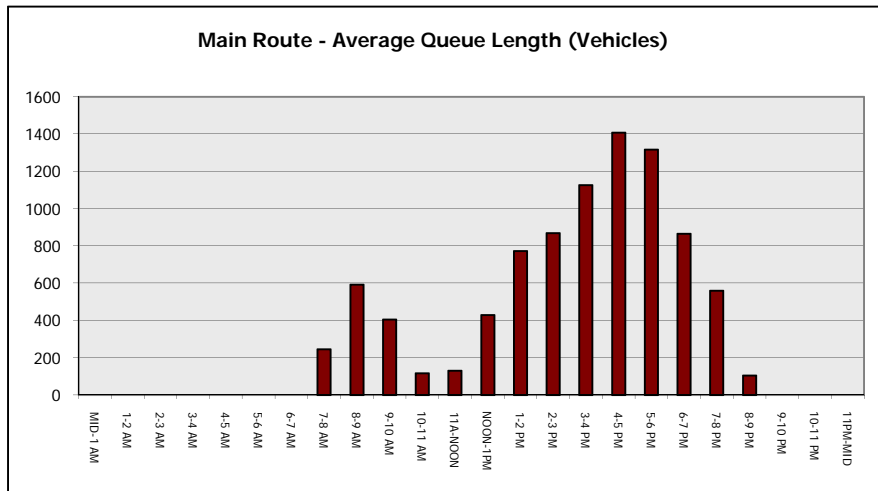
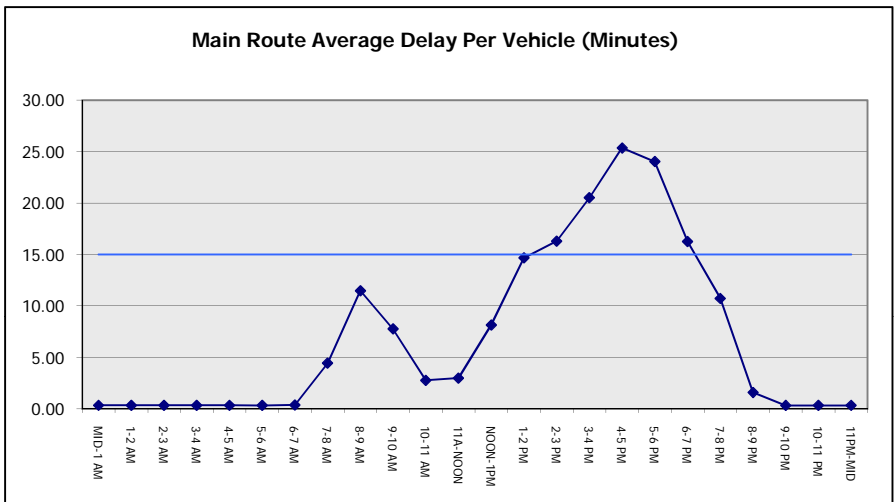
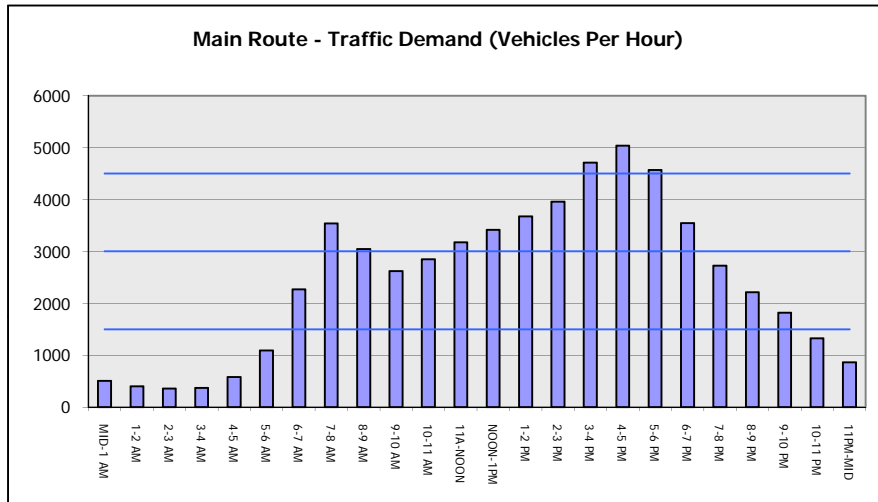
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$172,667
CONGESTED HOURS PER DAY*	5

*Delays Exceeding 15 Minutes

IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: BELTLINE - USH 51 - STH 30

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: BELTLINE - USH 51 - STH 30	OCTOBER
	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		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	426	0.0	223	0.0	3000	426	0	223	0.36	0	70.2	63.5	49.7	33.8	33.8
1-2 AM	370	0.0	194	0.0	3000	370	0	194	0.36	0	70.2	63.5	49.7	34.0	34.0
2-3 AM	374	0.0	196	0.0	3000	374	0	196	0.36	0	70.2	63.5	49.7	34.0	34.0
3-4 AM	439	0.0	230	0.0	3000	439	0	230	0.36	0	70.2	63.5	49.7	33.8	33.8
4-5 AM	524	0.0	275	0.0	3000	524	0	275	0.36	0	70.1	63.5	49.7	33.7	33.7
5-6 AM	1131	0.0	593	0.0	3000	1131	0	593	0.35	0	69.3	63.0	49.7	32.3	32.3
6-7 AM	2623	0.0	1375	0.0	2999	2623	0	1375+	0.49	0	67.5	59.4	44.3	29.1	29.1
7-8 AM	3279	0.0	1718	0.0	2999	3279	0	1718+	2.94	135	66.6	36.7	37.3	27.6	27.6
8-9 AM	2735	0.0	1434	0.0	2999	2735	0	1434+	3.54	172	67.3	33.8	38.8	28.8	28.8
9-10 AM	2453	0.0	1286	0.0	3000	2453	0	1286+	0.37	0	67.7	61.2	47.9	29.4	29.4
10-11 AM	2604	0.0	1366	0.0	3000	2604	0	1366+	0.47	0	67.5	59.6	44.4	29.1	29.1
11A-NOON	2865	0.0	1502	0.0	2999	2865	0	1502+	0.64	0	67.2	56.9	39.4	28.5	28.5
NOON-1PM	2974	0.0	1559	0.0	2999	2974	0	1559+	0.74	1	67.1	55.6	37.8	28.3	28.3
1-2 PM	3191	0.0	1673	0.0	3000	3191	0	1673+	2.15	85	66.8	41.8	37.3	27.8	27.8
2-3 PM	3513	0.0	1842	0.0	3000	3513	0	1842+	8.07	434	66.4	20.6	37.3	27.1	27.1
3-4 PM	3848	0.0	2018	0.0	2999	3171	677	2695+	15.49	822	64.6	13.0	37.3	26.4	23.8
4-5 PM	4272	0.0	2239	0.0	3000	3135	1137	3377+	18.15	980	61.7	12.0	37.3	25.5	21.4
5-6 PM	3897	0.0	2044	0.0	2999	2812	1086	3129+	17.22	919	64.2	12.4	37.3	26.3	22.3
6-7 PM	3020	0.0	1583	0.0	3000	2738	282	1866+	12.86	673	67.0	14.7	37.3	28.2	27.0
7-8 PM	2391	0.0	1254	0.0	2999	2391	0	1254+	4.78	299	67.8	28.8	42.0	29.6	29.6
8-9 PM	1856	0.0	973	0.0	3000	1856	0	973	0.34	0	68.4	62.4	49.7	30.7	30.7
9-10 PM	1517	0.0	795	0.0	3000	1517	0	795	0.34	0	68.9	62.7	49.7	31.5	31.5
10-11 PM	1157	0.0	607	0.0	3000	1157	0	607	0.35	0	69.3	63.0	49.7	32.2	32.2
11PM-MID	804	0.0	422	0.0	3000	804	0	422	0.35	0	69.7	63.2	49.7	33.0	33.0

+ 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	0.0333
MAIN ROUTE WITH WORKS	0.0280
DIVERSION	0.3205

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$83,217
CONGESTED HOURS PER DAY*	3

*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE
 DIVERSION ROUTE: BELTLINE - USH 51 - STH 30**

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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

