

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

SUNDAY 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	482	0.0	253	0.0	OFF	482	0	253	0.00	0	70.1	70.1	70.1	33.7	33.7
1-2 AM	340	0.0	178	0.0	OFF	340	0	178	0.00	0	70.2	70.2	70.2	34.0	34.0
2-3 AM	306	0.0	160	0.0	OFF	306	0	160	0.00	0	70.2	70.2	70.2	34.1	34.1
3-4 AM	239	0.0	126	0.0	OFF	239	0	126	0.00	0	70.2	70.2	70.2	34.3	34.3
4-5 AM	200	0.0	105	0.0	OFF	200	0	105	0.00	0	70.2	70.2	70.2	34.3	34.3
5-6 AM	325	0.0	171	0.0	OFF	325	0	171	0.00	0	70.2	70.2	70.2	34.1	34.1
6-7 AM	478	0.0	250	0.0	OFF	478	0	250	0.00	0	70.1	70.1	70.1	33.7	33.7
7-8 AM	820	0.0	430	0.0	OFF	820	0	430	0.00	0	69.7	69.7	69.7	33.0	33.0
8-9 AM	1241	0.0	651	0.0	OFF	1241	0	651	0.00	0	69.2	69.2	69.2	32.0	32.0
9-10 AM	1798	0.0	943	0.0	1499	1798	0	943	4.35	110	68.5	30.6	30.8	30.9	30.9
10-11 AM	2467	0.0	1293	0.0	1499	1563	905	2198+	14.01	340	67.7	13.7	30.8	29.4	25.6
11A-NOON	3009	0.0	1578	0.0	1500	1570	1439	3017+	16.67	410	67.0	11.9	30.8	28.2	22.2
NOON-1PM	3150	0.0	1651	0.0	1500	1512	1637	3289+	17.75	438	66.8	11.2	30.8	27.9	21.1
1-2 PM	3157	0.0	1655	0.0	1500	1498	1660	3315+	17.86	441	66.8	11.2	30.8	27.9	21.0
2-3 PM	3124	0.0	1638	0.0	1500	1495	1629	3267+	17.66	436	66.9	11.3	30.8	27.9	21.2
3-4 PM	3175	0.0	1665	0.0	1500	1510	1664	3329+	17.92	443	66.8	11.2	30.8	27.8	20.9
4-5 PM	3220	0.0	1688	0.0	1499	1497	1723	3411+	18.27	452	66.8	11.0	30.8	27.8	20.6
5-6 PM	2771	0.0	1454	0.0	1500	1425	1346	2799+	15.89	390	67.3	12.4	30.8	28.7	23.1
6-7 PM	2307	0.0	1210	0.0	1500	1447	859	2069+	13.66	330	67.9	14.0	30.8	29.7	26.1
7-8 PM	1798	0.0	943	0.0	OFF	1798	0	943	0.14	11	68.5	65.9	65.9	30.9	30.9
8-9 PM	1316	0.0	690	0.0	OFF	1316	0	690	0.00	0	69.1	69.1	69.1	31.9	31.9
9-10 PM	1001	0.0	524	0.0	OFF	1001	0	524	0.00	0	69.5	69.5	69.5	32.6	32.6
10-11 PM	707	0.0	370	0.0	OFF	707	0	370	0.00	0	69.9	69.9	69.9	33.2	33.2
11PM-MID	503	0.0	264	0.0	OFF	503	0	264	0.00	0	70.1	70.1	70.1	33.7	33.7

"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 (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	0.0242
MAIN ROUTE WITH WORKS	0.0150
DIVERSION	0.3433

PIA: Personal Injury Accidents

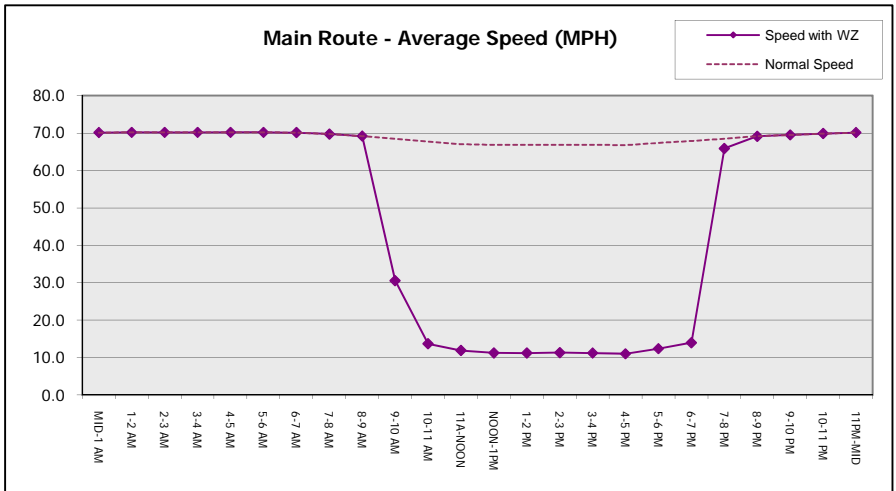
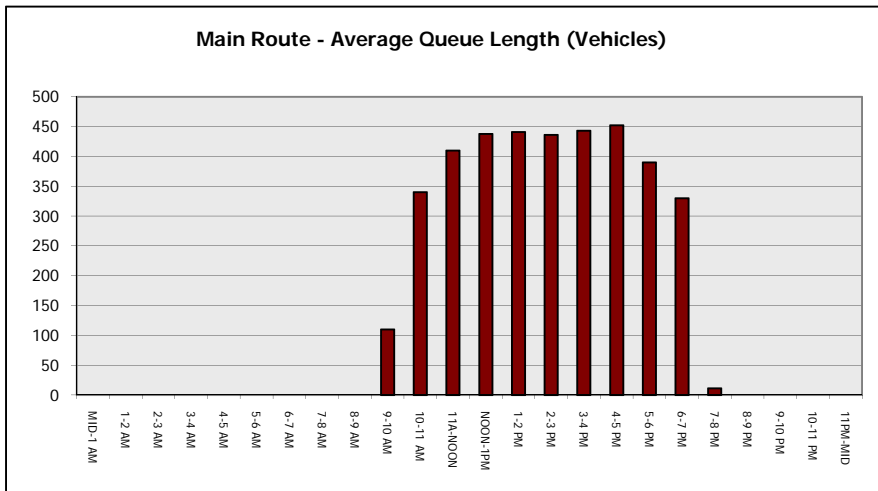
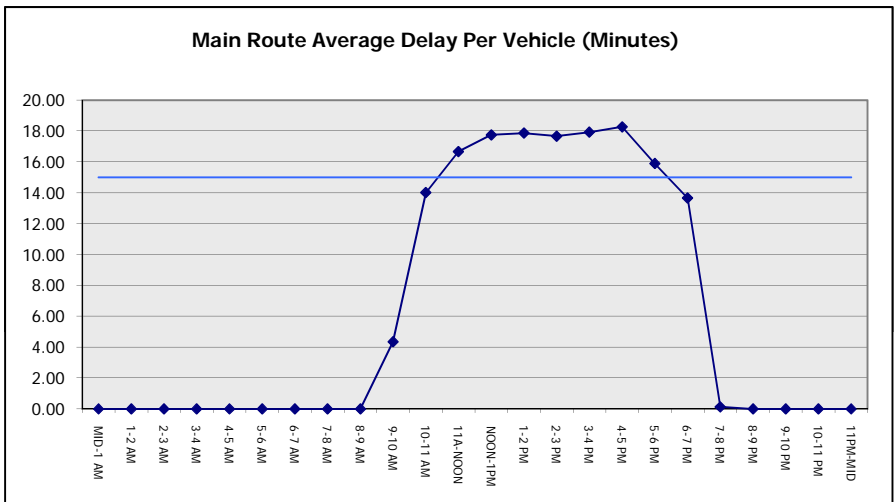
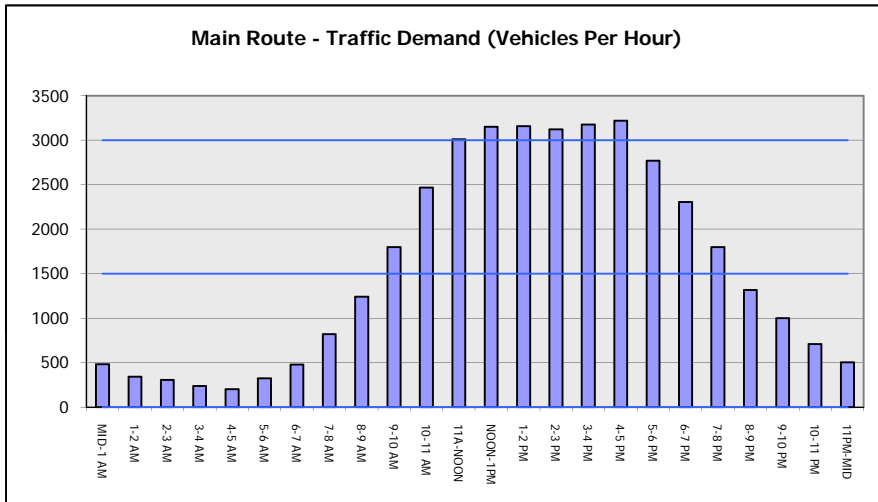
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$160,664
CONGESTED HOURS PER DAY*	7

*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
SUNDAY 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
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SUMMARY OF TRAFFIC MODEL OUTPUT	
SUNDAY	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	486	0.0	254	0.0	OFF	486	0	254	0.00	0	70.1	70.1	70.1	33.7	33.7
1-2 AM	316	0.0	165	0.0	OFF	316	0	165	0.00	0	70.2	70.2	70.2	34.1	34.1
2-3 AM	264	0.0	138	0.0	OFF	264	0	138	0.00	0	70.2	70.2	70.2	34.2	34.2
3-4 AM	190	0.0	99	0.0	OFF	190	0	99	0.00	0	70.2	70.2	70.2	34.3	34.3
4-5 AM	202	0.0	106	0.0	OFF	202	0	106	0.00	0	70.2	70.2	70.2	34.3	34.3
5-6 AM	255	0.0	134	0.0	OFF	255	0	134	0.00	0	70.2	70.2	70.2	34.2	34.2
6-7 AM	494	0.0	260	0.0	OFF	494	0	260	0.00	0	70.1	70.1	70.1	33.7	33.7
7-8 AM	722	0.0	378	0.0	OFF	722	0	378	0.00	0	69.9	69.9	69.9	33.2	33.2
8-9 AM	1175	0.0	615	0.0	OFF	1175	0	615	0.00	0	69.3	69.3	69.3	32.2	32.2
9-10 AM	1873	0.0	983	0.0	1499	1873	0	983	5.25	143	68.4	27.4	30.8	30.7	30.7
10-11 AM	2545	0.0	1334	0.0	1499	1500	1045	2379+	14.54	354	67.6	13.3	30.8	29.2	24.8
11A-NOON	3199	0.0	1677	0.0	1500	1597	1602	3280+	17.71	438	66.8	11.2	30.8	27.8	21.1
NOON-1PM	3486	0.0	1828	0.0	1500	1546	1939	3767+	19.96	497	66.4	10.2	30.8	27.1	19.1
1-2 PM	3665	0.0	1921	0.0	1500	1537	2127	4049+	21.47	537	65.8	9.6	30.8	26.8	17.9
2-3 PM	3819	0.0	2002	0.0	1500	1537	2283	4284+	22.86	575	64.8	9.0	30.8	26.5	17.0
3-4 PM	3901	0.0	2046	0.0	1500	1517	2384	4430+	23.82	601	64.2	8.7	30.8	26.3	16.3
4-5 PM	3892	0.0	2041	0.0	1500	1478	2414	4455+	24.00	606	64.3	8.6	30.8	26.3	16.2
5-6 PM	3459	0.0	1813	0.0	1500	1390	2069	3882+	20.56	514	66.4	9.9	30.8	27.2	18.6
6-7 PM	3044	0.0	1596	0.0	1499	1426	1618	3214+	17.44	431	66.9	11.4	30.8	28.1	21.4
7-8 PM	2327	0.0	1220	0.0	OFF	2327	0	1220+	0.25	21	67.8	63.5	63.5	29.7	29.7
8-9 PM	1842	0.0	965	0.0	OFF	1842	0	965	0.00	0	68.4	68.4	68.4	30.7	30.7
9-10 PM	1215	0.0	637	0.0	OFF	1215	0	637	0.00	0	69.2	69.2	69.2	32.1	32.1
10-11 PM	781	0.0	409	0.0	OFF	781	0	409	0.00	0	69.7	69.7	69.7	33.1	33.1
11PM-MID	530	0.0	278	0.0	OFF	530	0	278	0.00	0	70.0	70.0	70.0	33.6	33.6

"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	0.0278
MAIN ROUTE WITH WORKS	0.0157
DIVERSION	0.4232

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$231,346
CONGESTED HOURS PER DAY*	8

*Delays Exceeding 15 Minutes

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

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY EASTBOUND DIRECTION

