

**IH 39/90: BELTLINE TO STH 73 (DANE COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: STH 73 - USH 12**

MAY
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	518	0.0	93	0.0	1500	518	0	93	0.47	0	65.4	63.6	43.4	38.6	38.6
1-2 AM	394	0.0	71	0.0	1500	394	0	71	0.46	0	65.6	63.8	43.9	38.9	38.9
2-3 AM	407	0.0	73	0.0	1500	407	0	73	0.46	0	65.6	63.8	43.8	38.8	38.8
3-4 AM	397	0.0	71	0.0	1500	397	0	71	0.46	0	65.6	63.8	43.9	38.9	38.9
4-5 AM	540	0.0	96	0.0	1500	540	0	96	0.47	0	65.4	63.5	43.3	38.6	38.6
5-6 AM	1057	0.0	189	0.0	1499	1057	0	189	0.57	0	64.4	62.3	40.3	37.4	37.4
6-7 AM	1639	0.0	293	0.0	1499	1639	0	293	2.68	48	63.3	54.7	30.8	36.1	36.1
7-8 AM	1739	0.0	312	0.0	1500	1739	0	312	10.23	255	63.2	39.4	30.8	35.9	35.9
8-9 AM	1715	0.0	308	0.0	1499	1693	22	330	18.62	479	63.2	30.2	30.8	35.9	35.6
9-10 AM	1851	0.0	332	0.0	1499	1593	258	590	24.01	624	62.9	26.1	30.8	35.6	32.4
10-11 AM	1923	0.0	344	0.0	1499	1541	382	727	26.25	685	62.8	24.8	30.8	35.5	30.7
11A-NOON	1958	0.0	351	0.0	1499	1523	435	786	27.29	714	62.7	24.2	30.8	35.4	30.0
NOON-1PM	2043	0.0	366	0.0	1500	1549	494	860	28.65	752	62.6	23.4	30.8	35.2	29.1
1-2 PM	2095	0.0	376	0.0	1499	1536	559	934	30.14	793	62.5	22.7	30.8	35.1	28.1
2-3 PM	2181	0.0	390	0.0	1499	1556	624	1015	31.83	840	62.3	21.9	30.8	34.9	27.1
3-4 PM	2266	0.0	406	0.0	1499	1563	703	1109	34.01	899	62.2	20.9	30.8	34.7	26.0
4-5 PM	2353	0.0	422	0.0	1499	1564	789	1211+	36.59	970	62.0	19.9	30.8	34.5	24.7
5-6 PM	2229	0.0	400	0.0	1499	1433	796	1195	36.23	959	62.2	20.1	30.8	34.8	24.9
6-7 PM	2267	0.0	406	0.0	1499	1507	760	1166	35.43	938	62.2	20.4	30.8	34.7	25.3
7-8 PM	2094	0.0	375	0.0	1499	1388	706	1081	33.40	882	62.5	21.2	30.8	35.1	26.3
8-9 PM	1919	0.0	343	0.0	1499	1374	545	889	29.29	769	62.8	23.2	30.8	35.5	28.7
9-10 PM	1476	0.0	265	0.0	1499	1273	203	468	22.28	577	63.7	27.4	30.8	36.5	33.9
10-11 PM	1048	0.0	188	0.0	1499	1048	0	188	9.99	270	64.5	40.3	35.0	37.4	37.4
11PM-MID	694	0.0	125	0.0	1500	694	0	125	0.50	0	65.1	63.2	42.8	38.2	38.2

+ 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	0.1048
MAIN ROUTE WITH WORKS	0.0822
DIVERSION	0.3618

PIA: Personal Injury Accidents

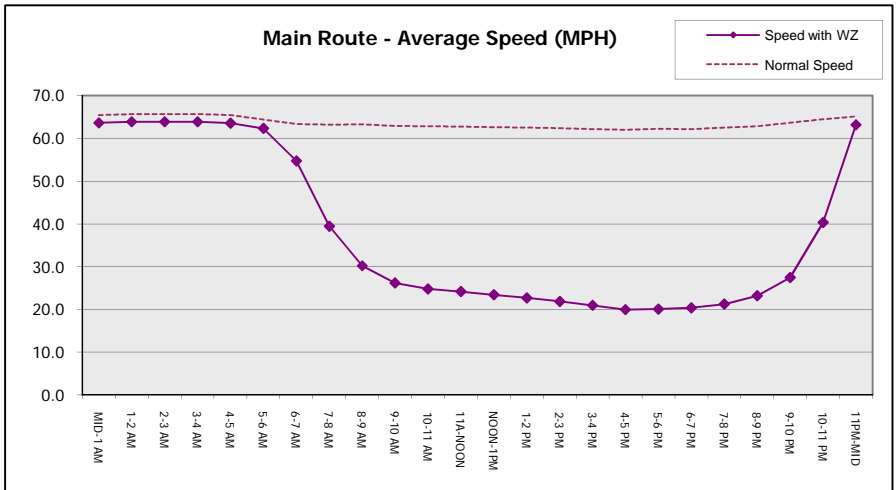
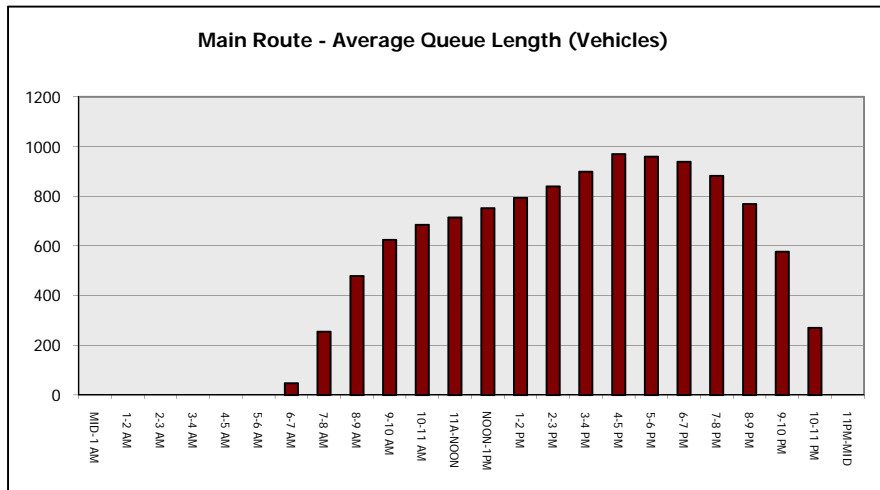
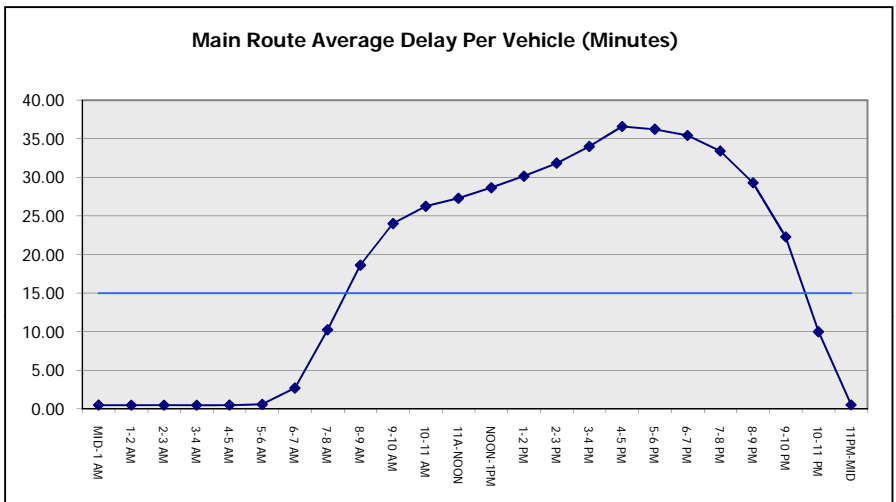
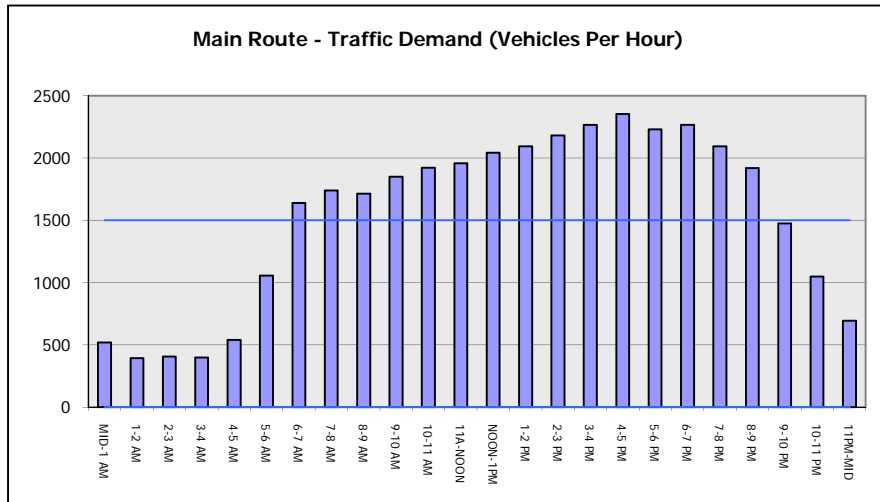
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$220,816
CONGESTED HOURS PER DAY*	14

*Delays Exceeding 15 Minutes

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CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: STH 73 - USH 12

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



IH 39/90: BELTLINE TO STH 73 (DANE COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: STH 73 - USH 12	MAY
	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	443	0.0	80	0.0	1500	443	0	80	0.47	0	65.6	63.8	43.7	38.8	38.8
1-2 AM	385	0.0	69	0.0	1500	385	0	69	0.46	0	65.6	63.9	44.0	38.9	38.9
2-3 AM	379	0.0	68	0.0	1500	379	0	68	0.46	0	65.7	63.9	44.0	38.9	38.9
3-4 AM	421	0.0	75	0.0	1500	421	0	75	0.46	0	65.6	63.8	43.8	38.8	38.8
4-5 AM	460	0.0	83	0.0	1500	460	0	83	0.47	0	65.5	63.7	43.7	38.7	38.7
5-6 AM	582	0.0	105	0.0	1500	582	0	105	0.48	0	65.3	63.5	43.2	38.4	38.4
6-7 AM	906	0.0	162	0.0	1500	906	0	162	0.51	0	64.7	62.8	42.0	37.8	37.8
7-8 AM	1225	0.0	220	0.0	1500	1225	0	220	0.67	0	64.1	61.7	37.6	37.0	37.0
8-9 AM	1341	0.0	241	0.0	1500	1341	0	241	0.82	0	63.9	60.9	34.4	36.8	36.8
9-10 AM	1462	0.0	262	0.0	1499	1462	0	262	0.98	0	63.7	60.2	31.6	36.5	36.5
10-11 AM	1510	0.0	270	0.0	1499	1510	0	270	1.17	4	63.6	59.4	30.9	36.4	36.4
11A-NOON	1665	0.0	298	0.0	1500	1665	0	298	4.35	94	63.3	50.4	30.8	36.0	36.0
NOON-1PM	1698	0.0	305	0.0	1499	1698	0	305	11.02	275	63.2	38.3	30.8	36.0	36.0
1-2 PM	1869	0.0	335	0.0	1500	1767	101	436	20.50	534	62.9	28.6	30.8	35.6	34.3
2-3 PM	1940	0.0	347	0.0	1499	1562	378	725	26.21	685	62.8	24.8	30.8	35.5	30.7
3-4 PM	1937	0.0	347	0.0	1499	1508	429	776	27.12	709	62.8	24.3	30.8	35.5	30.1
4-5 PM	2091	0.0	375	0.0	1500	1580	511	885	29.13	766	62.5	23.2	30.8	35.1	28.8
5-6 PM	1975	0.0	354	0.0	1499	1437	537	891	29.31	769	62.7	23.1	30.8	35.3	28.7
6-7 PM	1815	0.0	325	0.0	1499	1404	411	737	26.48	691	63.0	24.7	30.8	35.7	30.6
7-8 PM	1499	0.0	269	0.0	1499	1351	148	417	21.61	557	63.6	27.9	30.8	36.4	34.6
8-9 PM	1263	0.0	226	0.0	1499	1263	0	226	15.24	386	64.0	33.5	30.8	36.9	36.9
9-10 PM	1054	0.0	188	0.0	1499	1054	0	188	3.18	80	64.4	54.1	38.4	37.4	37.4
10-11 PM	880	0.0	158	0.0	1500	880	0	158	0.51	0	64.8	62.8	42.1	37.8	37.8
11PM-MID	667	0.0	119	0.0	1500	667	0	119	0.49	0	65.1	63.3	42.8	38.3	38.3

----- 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	0.0839
MAIN ROUTE WITH WORKS	0.0750
DIVERSION	0.2033

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$98,602
CONGESTED HOURS PER DAY*	8

*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE
 DIVERSION ROUTE: STH 73 - USH 12**

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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY EASTBOUND DIRECTION

