

|  |  |
|--|--|
| <b>IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY)</b><br><b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b><br><b>DIVERSION ROUTE: BELTLINE - USH 51 - STH 30</b> | <b>OCTOBER</b>                           |
|  | Analyzed for 2009<br>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       | 1500           | 607             | 0                | 318             | 0.54                  | 0                   | 70.0            | 60.4         | 43.1            | 33.5            | 33.5         |
| 1-2 AM      | 425                          | 0.0       | 223             | 0.0       | 1500           | 425             | 0                | 223             | 0.52                  | 0                   | 70.2            | 60.9         | 43.8            | 33.8            | 33.8         |
| 2-3 AM      | 370                          | 0.0       | 194             | 0.0       | 1500           | 370             | 0                | 194             | 0.52                  | 0                   | 70.2            | 60.9         | 44.0            | 34.0            | 34.0         |
| 3-4 AM      | 338                          | 0.0       | 177             | 0.0       | 1500           | 338             | 0                | 177             | 0.51                  | 0                   | 70.2            | 61.0         | 44.2            | 34.0            | 34.0         |
| 4-5 AM      | 382                          | 0.0       | 200             | 0.0       | 1500           | 382             | 0                | 200             | 0.52                  | 0                   | 70.2            | 60.9         | 44.0            | 34.0            | 34.0         |
| 5-6 AM      | 627                          | 0.0       | 329             | 0.0       | 1500           | 627             | 0                | 329             | 0.55                  | 0                   | 69.9            | 60.4         | 43.0            | 33.4            | 33.4         |
| 6-7 AM      | 971                          | 0.0       | 509             | 0.0       | 1499           | 971             | 0                | 509             | 0.58                  | 0                   | 69.6            | 59.5         | 41.8            | 32.7            | 32.7         |
| 7-8 AM      | 1600                         | 0.0       | 839             | 0.0       | 1499           | 1600            | 0                | 839             | 2.00                  | 32                  | 68.7            | 43.7         | 31.4            | 31.3            | 31.3         |
| 8-9 AM      | 2237                         | 0.0       | 1173            | 0.0       | 1500           | 1707            | 530              | 1703+           | 12.10                 | 297                 | 67.9            | 15.3         | 30.8            | 29.9            | 27.7         |
| 9-10 AM     | 2623                         | 0.0       | 1375            | 0.0       | 1499           | 1539            | 1084             | 2459+           | 14.78                 | 360                 | 67.5            | 13.1         | 30.8            | 29.1            | 24.5         |
| 10-11 AM    | 3004                         | 0.0       | 1575            | 0.0       | 1500           | 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       | 1500           | 1428            | 928              | 2164+           | 13.92                 | 337                 | 67.8            | 13.7         | 30.8            | 29.6            | 25.8         |
| 7-8 PM      | 1807                         | 0.0       | 947             | 0.0       | 1500           | 1452            | 355              | 1302+           | 11.82                 | 281                 | 68.5            | 15.6         | 30.8            | 30.8            | 29.4         |
| 8-9 PM      | 1399                         | 0.0       | 734             | 0.0       | 1499           | 1379            | 20               | 754             | 9.39                  | 219                 | 69.0            | 18.6         | 30.8            | 31.7            | 31.6         |
| 9-10 PM     | 1263                         | 0.0       | 662             | 0.0       | 1499           | 1263            | 0                | 662             | 2.50                  | 59                  | 69.2            | 40.2         | 34.7            | 32.0            | 32.0         |
| 10-11 PM    | 938                          | 0.0       | 492             | 0.0       | 1500           | 938             | 0                | 492             | 0.58                  | 0                   | 69.6            | 59.6         | 41.9            | 32.7            | 32.7         |
| 11PM-MID    | 663                          | 0.0       | 347             | 0.0       | 1500           | 663             | 0                | 347             | 0.55                  | 0                   | 69.9            | 60.2         | 42.9            | 33.3            | 33.3         |

+ 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           | 0.0273 |
| MAIN ROUTE WITH WORKS              | 0.0158 |
| DIVERSION                          | 0.3942 |

PIA: Personal Injury Accidents

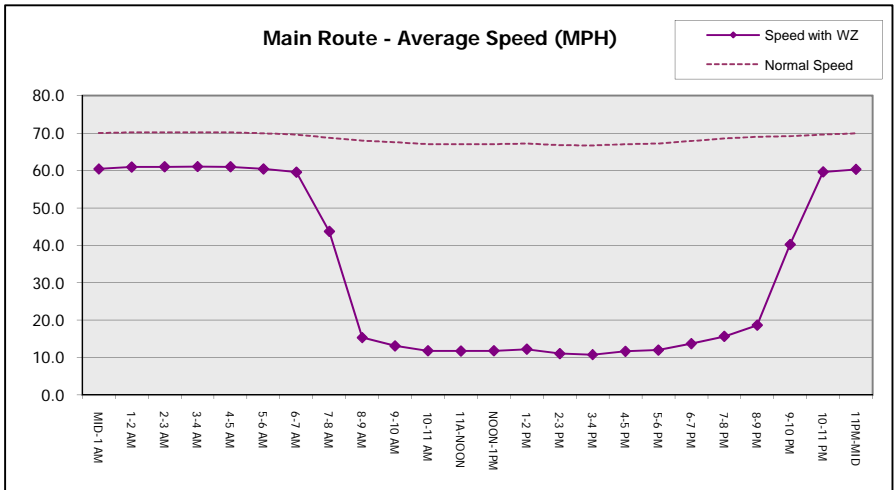
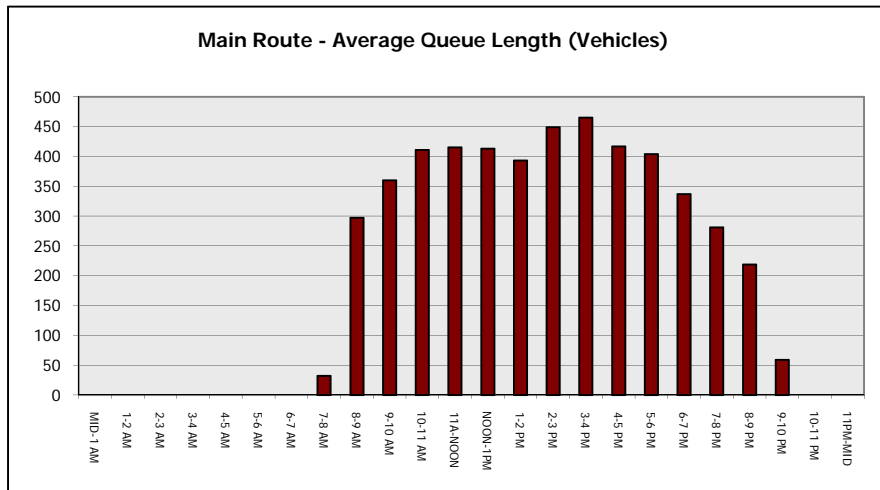
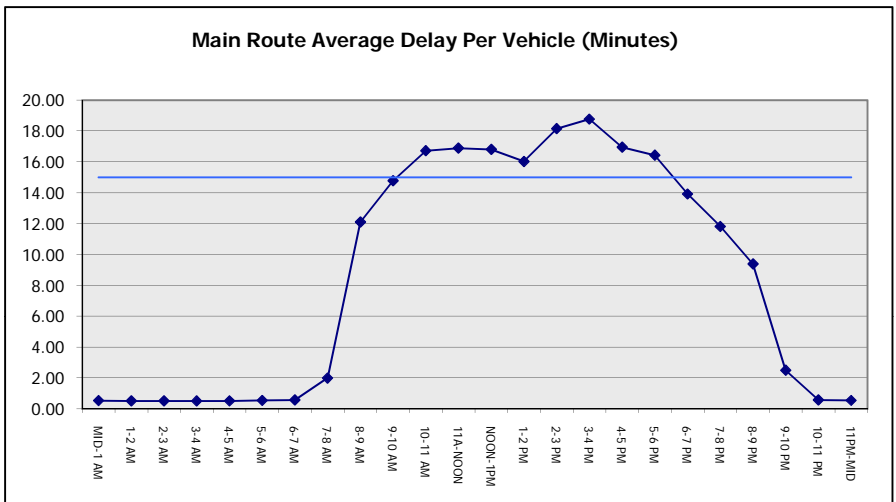
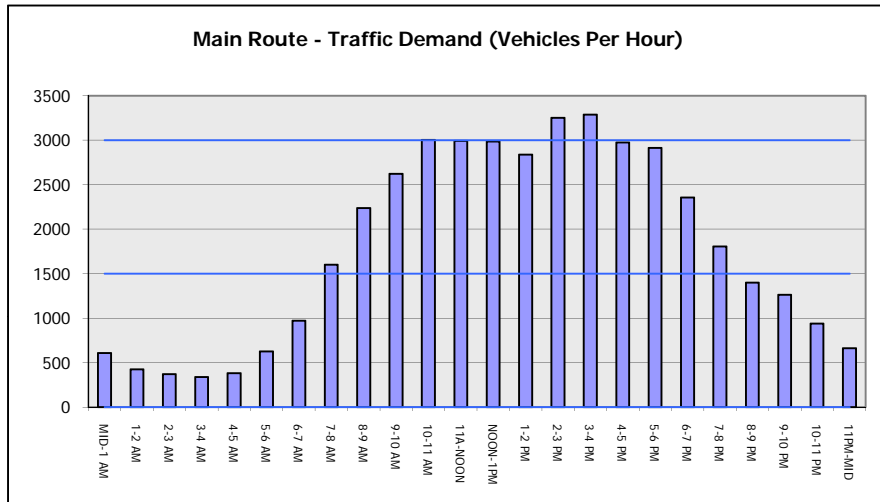
| IMPACTS ON ROAD USERS              |           |
|------------------------------------|-----------|
| ROAD USER COSTS PER DAY ( DOLLARS) | \$187,215 |
| CONGESTED HOURS PER DAY*           | 8         |

\*Delays Exceeding 15 Minutes

**IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY)**  
**CONTINUOUS (24 HOUR) 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**



|  |  |
|--|--|
| <b>IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY)</b><br><b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b><br><b>DIVERSION ROUTE: BELTLINE - USH 51 - STH 30</b> | <b>OCTOBER</b>                           |
|  | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SATURDAY 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    | 526                          | 0.0       | 276         | 0.0       | 1500           | 526             | 0               | 276             | 0.54                  | 0                   | 70.0            | 60.6         | 43.4 | 33.6            | 33.6         |
| 1-2 AM      | 376                          | 0.0       | 197         | 0.0       | 1500           | 376             | 0               | 197             | 0.52                  | 0                   | 70.2            | 60.9         | 44.0 | 34.0            | 34.0         |
| 2-3 AM      | 343                          | 0.0       | 180         | 0.0       | 1500           | 343             | 0               | 180             | 0.51                  | 0                   | 70.2            | 61.0         | 44.1 | 34.0            | 34.0         |
| 3-4 AM      | 320                          | 0.0       | 167         | 0.0       | 1500           | 320             | 0               | 167             | 0.51                  | 0                   | 70.2            | 61.0         | 44.2 | 34.1            | 34.1         |
| 4-5 AM      | 369                          | 0.0       | 194         | 0.0       | 1500           | 369             | 0               | 194             | 0.52                  | 0                   | 70.2            | 60.9         | 44.0 | 34.0            | 34.0         |
| 5-6 AM      | 471                          | 0.0       | 247         | 0.0       | 1500           | 471             | 0               | 247             | 0.53                  | 0                   | 70.2            | 60.7         | 43.6 | 33.7            | 33.7         |
| 6-7 AM      | 886                          | 0.0       | 465         | 0.0       | 1500           | 886             | 0               | 465             | 0.57                  | 0                   | 69.6            | 59.7         | 42.1 | 32.9            | 32.9         |
| 7-8 AM      | 1502                         | 0.0       | 787         | 0.0       | 1499           | 1502            | 0               | 787             | 1.73                  | 27                  | 68.9            | 46.0         | 33.3 | 31.5            | 31.5         |
| 8-9 AM      | 2608                         | 0.0       | 1368        | 0.0       | 1500           | 1780            | 829             | 2197+           | 13.26                 | 334                 | 67.5            | 14.3         | 30.8 | 29.1            | 25.6         |
| 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       | 1500           | 1467            | 708             | 1849+           | 13.08                 | 315                 | 68.0            | 14.5         | 30.8 | 30.0            | 27.1         |
| 7-8 PM      | 1798                         | 0.0       | 943         | 0.0       | 1500           | 1467            | 331             | 1274+           | 11.76                 | 279                 | 68.5            | 15.7         | 30.8 | 30.9            | 29.5         |
| 8-9 PM      | 1546                         | 0.0       | 810         | 0.0       | 1499           | 1471            | 75              | 885             | 10.90                 | 256                 | 68.8            | 16.7         | 30.8 | 31.4            | 31.1         |
| 9-10 PM     | 1302                         | 0.0       | 682         | 0.0       | 1499           | 1302            | 0               | 682             | 6.79                  | 162                 | 69.1            | 23.4         | 32.0 | 31.9            | 31.9         |
| 10-11 PM    | 1000                         | 0.0       | 524         | 0.0       | 1500           | 999             | 0               | 524             | 0.67                  | 2                   | 69.5            | 58.2         | 41.7 | 32.6            | 32.6         |
| 11PM-MID    | 679                          | 0.0       | 356         | 0.0       | 1500           | 679             | 0               | 356             | 0.55                  | 0                   | 69.9            | 60.2         | 42.8 | 33.3            | 33.3         |

+ 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              | 0.0156 |
| DIVERSION                          | 0.3560 |

PIA: Personal Injury Accidents

| IMPACTS ON ROAD USERS              |           |
|------------------------------------|-----------|
| ROAD USER COSTS PER DAY ( DOLLARS) | \$164,649 |
| CONGESTED HOURS PER DAY*           | 6         |

\*Delays Exceeding 15 Minutes

**IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY)**  
**CONTINUOUS (24 HOUR) 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**

