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| <b>USH 151: IH 39 TO STH 19 (DANE COUNTY)</b><br><b>OFF-PEAK DAY 2 LANE CLOSURE</b><br><b>NO DIVERSION ROUTE (MAX QUEUE SEGMENT)</b> | <b>AUGUST</b>                            |
|  | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SATURDAY SOUTHBOUND DIRECTION

| TIME OF DAY | FLOWS AND CAPACITY IN VEH/HR |           |                |            |             |                       | AVERAGE SPEEDS IN MPH |                   |                |      |  |
|-------------|------------------------------|-----------|----------------|------------|-------------|-----------------------|-----------------------|-------------------|----------------|------|--|
|             | MAIN ROUTE                   |           | SITE CAPA CITY | FLOW       |             | AV.DEL PER VEH (MINS) | AVERAGE QUEUE (VEH)   | MAIN ROUTE        |                | SITE |  |
|             | DEMAND FLOW                  | PCT HEAVY |                | MAIN ROUTE | 'DIVER TED' |                       |                       | WITHOUT WORK ZONE | WITH WORK ZONE |      |  |
| MID-1 AM    | 257                          | 0.0       | OFF            | 257        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |  |
| 1-2 AM      | 149                          | 0.0       | OFF            | 149        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |  |
| 2-3 AM      | 146                          | 0.0       | OFF            | 146        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |  |
| 3-4 AM      | 103                          | 0.0       | OFF            | 103        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |  |
| 4-5 AM      | 156                          | 0.0       | OFF            | 156        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |  |
| 5-6 AM      | 255                          | 0.0       | OFF            | 255        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |  |
| 6-7 AM      | 548                          | 0.0       | OFF            | 548        | 0           | 0.00                  | 0                     | 70.0              | 70.0           | 70.0 |  |
| 7-8 AM      | 818                          | 0.0       | OFF            | 818        | 0           | 0.00                  | 0                     | 69.7              | 69.7           | 69.7 |  |
| 8-9 AM      | 1145                         | 0.0       | 1499           | 1145       | 0           | 0.67                  | 0                     | 69.3              | 59.5           | 39.5 |  |
| 9-10 AM     | 1507                         | 0.0       | 1499           | 1507       | 0           | 1.43                  | 11                    | 68.9              | 51.0           | 31.6 |  |
| 10-11 AM    | 1798                         | 0.0       | 1500           | 1798       | 0           | 7.26                  | 181                   | 68.5              | 24.8           | 30.8 |  |
| 11AM-NOON   | 1890                         | 0.0       | 1499           | 1528       | 362         | 16.23+                | 396                   | 68.4              | 13.8           | 30.8 |  |
| NOON-1PM    | 1834                         | 0.0       | 1500           | 1500       | 334         | 16.35+                | 400                   | 68.4              | 13.8           | 30.8 |  |
| 1-2 PM      | 1706                         | 0.0       | 1500           | 1510       | 196         | 16.32+                | 398                   | 68.6              | 13.8           | 30.8 |  |
| 2-3 PM      | 1663                         | 0.0       | 1500           | 1503       | 160         | 16.35+                | 399                   | 68.7              | 13.8           | 30.8 |  |
| 3-4 PM      | 1598                         | 0.0       | 1500           | 1508       | 90          | 16.33+                | 399                   | 68.7              | 13.8           | 30.8 |  |
| 4-5 PM      | 1535                         | 0.0       | 1500           | 1509       | 26          | 16.29+                | 397                   | 68.8              | 13.8           | 30.8 |  |
| 5-6 PM      | 1396                         | 0.0       | 1499           | 1396       | 0           | 14.52+                | 353                   | 69.0              | 15.2           | 30.8 |  |
| 6-7 PM      | 1344                         | 0.0       | OFF            | 1344       | 0           | 0.12                  | 9                     | 69.1              | 67.2           | 67.2 |  |
| 7-8 PM      | 1029                         | 0.0       | OFF            | 1029       | 0           | 0.00                  | 0                     | 69.4              | 69.4           | 69.4 |  |
| 8-9 PM      | 878                          | 0.0       | OFF            | 878        | 0           | 0.00                  | 0                     | 69.6              | 69.6           | 69.6 |  |
| 9-10 PM     | 736                          | 0.0       | OFF            | 736        | 0           | 0.00                  | 0                     | 69.8              | 69.8           | 69.8 |  |
| 10-11 PM    | 610                          | 0.0       | OFF            | 610        | 0           | 0.00                  | 0                     | 70.0              | 70.0           | 70.0 |  |
| 11PM-MID    | 418                          | 0.0       | OFF            | 418        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |  |

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

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

| *----- SITE BREAKDOWN DELAYS -----* |      |
|-------------------------------------|------|
| BREAKDOWN DURATION (MINS)           | 0    |
| RANGE OF QUEUE DELAY - MIN          | 0.0  |
| (VEH-H) MAX                         | 0.0  |
| AV BREAKDOWNS PER DAY               | 0.00 |
| AV QUEUE DELAY/DAY (VEH-H)          | 0.0  |
| AV TOTAL DELAY/DAY (VEH-H)          | 0.0  |

| *----- SITE ACCIDENT DELAYS -----* |   |
|------------------------------------|---|
| BREAKDOWN DURATION (MINS)          | 0 |
| RANGE OF QUEUE DELAY - MIN         | 0 |
| (VEH-H) MAX                        | 0 |
| AV BREAKDOWNS PER DAY              | 0 |
| AV QUEUE DELAY/DAY (VEH-H)         | 0 |
| AV TOTAL DELAY/DAY (VEH-H)         | 0 |

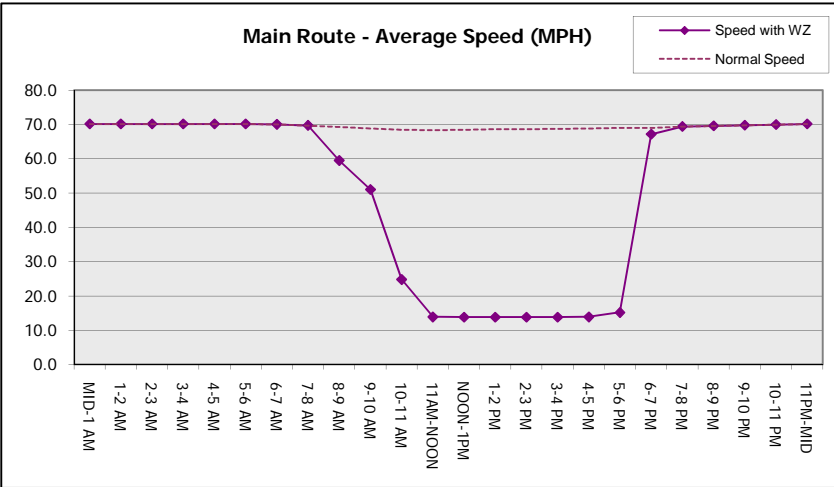
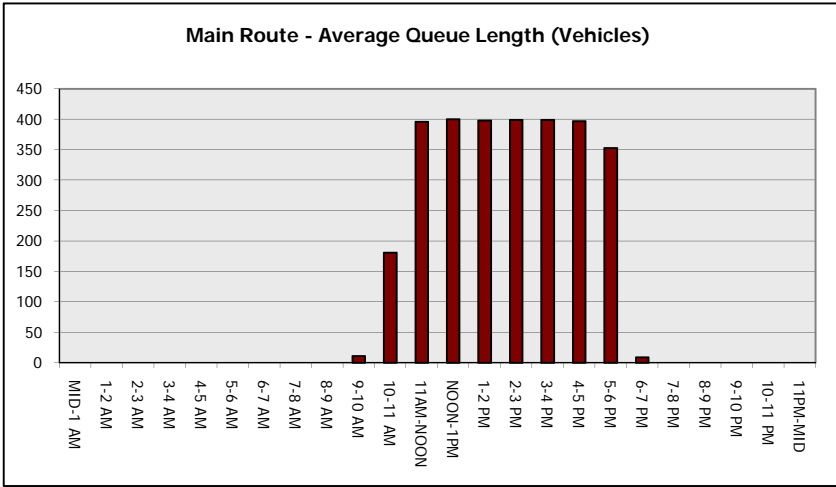
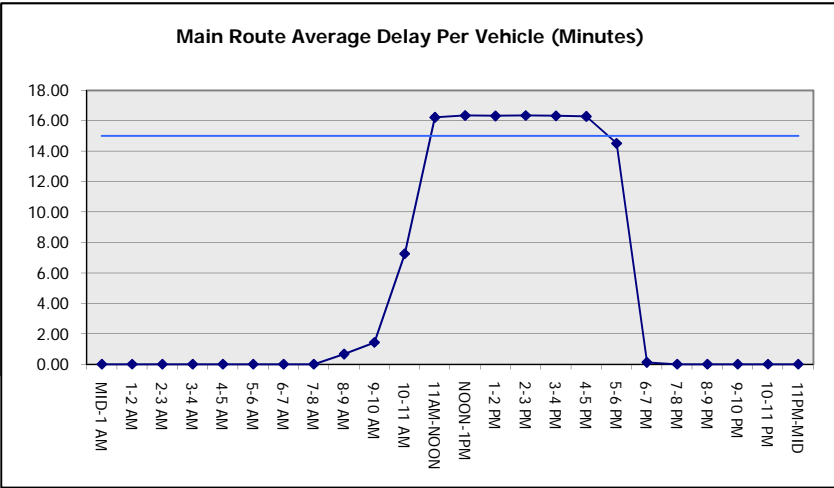
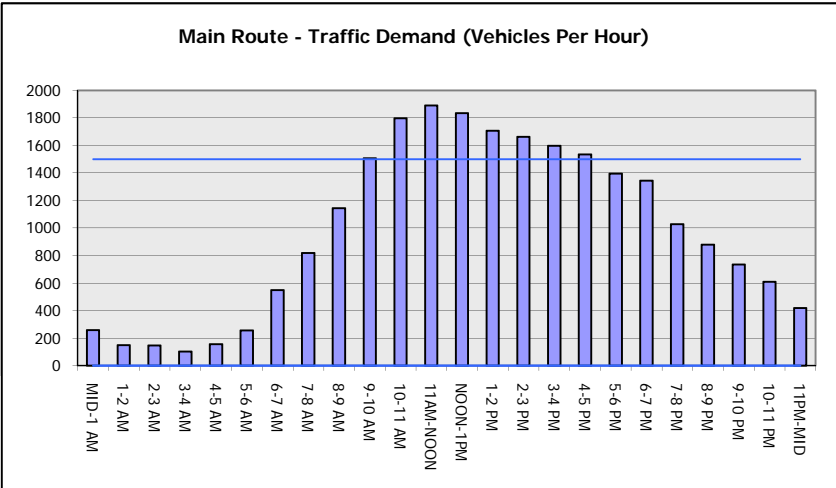
| AVERAGE ACCIDENT NUMBERS (PIA/DAY)            |          |
|---|----------|
| MAIN ROUTE WITHOUT WORKS                      | 0.0176   |
| MAIN ROUTE WITH WORKS                         | 0.0157   |
| 'DIVERSION'                                   | 0.0020   |
| <small>PIA: Personal Injury Accidents</small> |          |
| IMPACTS ON ROAD USERS                         |          |
| ROAD USER COSTS PER DAY                       | \$55,361 |
| CONGESTED HOURS PER DAY*                      | 7        |

\*Delays Exceeding User-Specified Maximum

**USH 151: IH 39 TO STH 19 (DANE COUNTY)  
OFF-PEAK DAY 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE SEGMENT)**

**AUGUST**  
Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY SOUTHBOUND DIRECTION**



|  |  |
|--|--|
| <b>USH 151: IH 39 TO STH 19 (DANE COUNTY)</b><br><b>OFF-PEAK DAY 2 LANE CLOSURE</b><br><b>NO DIVERSION ROUTE (MAX QUEUE SEGMENT)</b> | <b>AUGUST</b>                            |
|  | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SATURDAY NORTHBOUND DIRECTION

| TIME OF DAY | FLOWS AND CAPACITY IN VEH/HR |           |                |            |             |                       | AVERAGE SPEEDS IN MPH |                   |                |      |
|-------------|------------------------------|-----------|----------------|------------|-------------|-----------------------|-----------------------|-------------------|----------------|------|
|             | MAIN ROUTE                   |           | SITE CAPA CITY | FLOW       |             | AV.DEL PER VEH (MINS) | AVERAGE QUEUE (VEH)   | MAIN ROUTE        |                | SITE |
|             | DEMAND FLOW                  | PCT HEAVY |                | MAIN ROUTE | 'DIVER TED' |                       |                       | WITHOUT WORK ZONE | WITH WORK ZONE |      |
| MID-1 AM    | 374                          | 0.0       | OFF            | 374        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |
| 1-2 AM      | 232                          | 0.0       | OFF            | 232        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |
| 2-3 AM      | 203                          | 0.0       | OFF            | 203        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |
| 3-4 AM      | 139                          | 0.0       | OFF            | 139        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |
| 4-5 AM      | 103                          | 0.0       | OFF            | 103        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |
| 5-6 AM      | 163                          | 0.0       | OFF            | 163        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |
| 6-7 AM      | 314                          | 0.0       | OFF            | 314        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |
| 7-8 AM      | 577                          | 0.0       | OFF            | 577        | 0           | 0.00                  | 0                     | 70.0              | 70.0           | 70.0 |
| 8-9 AM      | 815                          | 0.0       | 1500           | 815        | 0           | 0.57                  | 0                     | 69.7              | 61.2           | 42.4 |
| 9-10 AM     | 1111                         | 0.0       | 1499           | 1111       | 0           | 0.64                  | 0                     | 69.4              | 59.9           | 40.2 |
| 10-11 AM    | 1442                         | 0.0       | 1499           | 1442       | 0           | 1.08                  | 2                     | 68.9              | 54.5           | 32.2 |
| 11AM-NOON   | 1706                         | 0.0       | 1500           | 1706       | 0           | 4.34                  | 97                    | 68.6              | 33.3           | 30.8 |
| NOON-1PM    | 1895                         | 0.0       | 1500           | 1688       | 207         | 14.33+                | 354                   | 68.4              | 15.3           | 30.8 |
| 1-2 PM      | 1861                         | 0.0       | 1500           | 1500       | 361         | 16.35+                | 400                   | 68.4              | 13.8           | 30.8 |
| 2-3 PM      | 1881                         | 0.0       | 1500           | 1500       | 381         | 16.35+                | 400                   | 68.4              | 13.8           | 30.8 |
| 3-4 PM      | 1887                         | 0.0       | 1500           | 1500       | 387         | 16.35+                | 400                   | 68.4              | 13.8           | 30.8 |
| 4-5 PM      | 1842                         | 0.0       | 1500           | 1500       | 342         | 16.35+                | 400                   | 68.4              | 13.8           | 30.8 |
| 5-6 PM      | 1695                         | 0.0       | 1500           | 1500       | 195         | 16.36+                | 400                   | 68.6              | 13.8           | 30.8 |
| 6-7 PM      | 1396                         | 0.0       | OFF            | 1396       | 0           | 0.21                  | 17                    | 69.0              | 65.7           | 65.7 |
| 7-8 PM      | 1191                         | 0.0       | OFF            | 1191       | 0           | 0.00                  | 0                     | 69.2              | 69.2           | 69.2 |
| 8-9 PM      | 1171                         | 0.0       | OFF            | 1171       | 0           | 0.00                  | 0                     | 69.3              | 69.3           | 69.3 |
| 9-10 PM     | 1017                         | 0.0       | OFF            | 1017       | 0           | 0.00                  | 0                     | 69.5              | 69.5           | 69.5 |
| 10-11 PM    | 740                          | 0.0       | OFF            | 740        | 0           | 0.00                  | 0                     | 69.8              | 69.8           | 69.8 |
| 11PM-MID    | 590                          | 0.0       | OFF            | 590        | 0           | 0.00                  | 0                     | 70.0              | 70.0           | 70.0 |

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

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

| *----- SITE BREAKDOWN DELAYS -----*    |      |
|--|------|
| BREAKDOWN DURATION (MINS)              | 0    |
| RANGE OF QUEUE DELAY - MIN (VEH-H) MAX | 0.0  |
| AV BREAKDOWNS PER DAY                  | 0.00 |
| AV QUEUE DELAY/DAY (VEH-H)             | 0.0  |
| AV TOTAL DELAY/DAY (VEH-H)             | 0.0  |

| *----- SITE ACCIDENT DELAYS -----*     |   |
|--|---|
| BREAKDOWN DURATION (MINS)              | 0 |
| RANGE OF QUEUE DELAY - MIN (VEH-H) MAX | 0 |
| AV BREAKDOWNS PER DAY                  | 0 |
| AV QUEUE DELAY/DAY (VEH-H)             | 0 |
| AV TOTAL DELAY/DAY (VEH-H)             | 0 |

| AVERAGE ACCIDENT NUMBERS (PIA/DAY) |        |
|------------------------------------|--------|
| MAIN ROUTE WITHOUT WORKS           | 0.0182 |
| MAIN ROUTE WITH WORKS              | 0.0159 |
| 'DIVERSION'                        | 0.0032 |

PIA: Personal Injury Accidents

| ECONOMIC IMPACT ON ROAD USERS |          |
|-------------------------------|----------|
| ROAD USER COSTS PER DAY       | \$51,075 |
| CONGESTED HOURS PER DAY*      | 6        |

\*Delays Exceeding User-Specified Maximum

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