

|  |  |
|--|--|
| <b>IH 43: STH 42 TO STH 28 (SHEBOYGAN COUNTY)</b><br><b>OFF-PEAK DAY CLOSURE</b><br><b>DIVERSION ROUTE: STH 28 - CTH TA - STH 23</b> | <b>AUGUST</b>                            |
|  | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY                      SOUTHBOUND 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    | 205                          | 0.0       | 99              | 0.0       | OFF            | 205             | 0                | 99                    | 0.00                  | 0                   | 66.0            | 66.0         | 66.0            | 24.1            | 24.1         |
| 1-2 AM      | 89                           | 0.0       | 44              | 0.0       | OFF            | 89              | 0                | 44                    | 0.00                  | 0                   | 66.2            | 66.2         | 66.2            | 24.5            | 24.5         |
| 2-3 AM      | 90                           | 0.0       | 44              | 0.0       | OFF            | 90              | 0                | 44                    | 0.00                  | 0                   | 66.2            | 66.2         | 66.2            | 24.5            | 24.5         |
| 3-4 AM      | 123                          | 0.0       | 60              | 0.0       | OFF            | 123             | 0                | 60                    | 0.00                  | 0                   | 66.1            | 66.1         | 66.1            | 24.4            | 24.4         |
| 4-5 AM      | 294                          | 0.0       | 143             | 0.0       | OFF            | 294             | 0                | 143                   | 0.00                  | 0                   | 65.8            | 65.8         | 65.8            | 23.7            | 23.7         |
| 5-6 AM      | 528                          | 0.0       | 256             | 0.0       | OFF            | 528             | 0                | 256                   | 0.00                  | 0                   | 65.4            | 65.4         | 65.4            | 22.9            | 22.9         |
| 6-7 AM      | 980                          | 0.0       | 475             | 0.0       | OFF            | 980             | 0                | 475                   | 0.00                  | 0                   | 64.6            | 64.6         | 64.6            | 21.2            | 21.2         |
| 7-8 AM      | 1097                         | 0.0       | 532             | 0.0       | OFF            | 1097            | 0                | 532                   | 0.00                  | 0                   | 64.3            | 64.3         | 64.3            | 20.7            | 20.7         |
| 8-9 AM      | 973                          | 0.0       | 472             | 0.0       | OFF            | 973             | 0                | 472                   | 0.00                  | 0                   | 64.6            | 64.6         | 64.6            | 21.2            | 21.2         |
| 9-10 AM     | 1051                         | 0.0       | 509             | 0.0       | 1500           | 1051            | 0                | 509                   | 0.52                  | 0                   | 64.4            | 53.0         | 41.5            | 20.9            | 20.9         |
| 10-11 AM    | 1101                         | 0.0       | 534             | 0.0       | 1500           | 1101            | 0                | 534                   | 0.53                  | 0                   | 64.3            | 52.8         | 41.3            | 20.7            | 20.7         |
| 11A-NOON    | 1207                         | 0.0       | 585             | 0.0       | 1500           | 1207            | 0                | 585                   | 0.65                  | 0                   | 64.1            | 50.7         | 38.2            | 20.4            | 20.4         |
| NOON-1PM    | 1309                         | 0.0       | 634             | 0.0       | 1500           | 1309            | 0                | 634                   | 0.78                  | 0                   | 64.0            | 48.5         | 35.3            | 20.0            | 20.0         |
| 1-2 PM      | 1337                         | 0.0       | 648             | 0.0       | 1500           | 1337            | 0                | 648                   | 0.81                  | 0                   | 63.9            | 47.9         | 34.5            | 19.9            | 19.9         |
| 2-3 PM      | 1389                         | 0.0       | 674             | 0.0       | 1500           | 1389            | 0                | 674                   | 0.88                  | 0                   | 63.8            | 46.9         | 33.2            | 19.7            | 19.7         |
| 3-4 PM      | 1404                         | 0.0       | 681             | 0.0       | 1500           | 1404            | 0                | 681                   | 0.90                  | 0                   | 63.8            | 46.6         | 32.9            | 19.6            | 19.6         |
| 4-5 PM      | 1465                         | 0.0       | 710             | 0.0       | OFF            | 1465            | 0                | 710                   | 0.00                  | 0                   | 63.7            | 63.7         | 63.7            | 19.4            | 19.4         |
| 5-6 PM      | 1395                         | 0.0       | 676             | 0.0       | OFF            | 1395            | 0                | 676                   | 0.00                  | 0                   | 63.8            | 63.8         | 63.8            | 19.7            | 19.7         |
| 6-7 PM      | 1051                         | 0.0       | 509             | 0.0       | OFF            | 1051            | 0                | 509                   | 0.00                  | 0                   | 64.4            | 64.4         | 64.4            | 20.9            | 20.9         |
| 7-8 PM      | 757                          | 0.0       | 366             | 0.0       | OFF            | 757             | 0                | 366                   | 0.00                  | 0                   | 65.0            | 65.0         | 65.0            | 22.0            | 22.0         |
| 8-9 PM      | 571                          | 0.0       | 277             | 0.0       | OFF            | 571             | 0                | 277                   | 0.00                  | 0                   | 65.3            | 65.3         | 65.3            | 22.7            | 22.7         |
| 9-10 PM     | 487                          | 0.0       | 235             | 0.0       | OFF            | 487             | 0                | 235                   | 0.00                  | 0                   | 65.5            | 65.5         | 65.5            | 23.0            | 23.0         |
| 10-11 PM    | 361                          | 0.0       | 175             | 0.0       | OFF            | 361             | 0                | 175                   | 0.00                  | 0                   | 65.7            | 65.7         | 65.7            | 23.5            | 23.5         |
| 11PM-MID    | 246                          | 0.0       | 119             | 0.0       | OFF            | 246             | 0                | 119                   | 0.00                  | 0                   | 66.0            | 66.0         | 66.0            | 23.9            | 23.9         |

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

| *----- 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           | 0.0081 |
| MAIN ROUTE WITH WORKS              | 0.0075 |
| DIVERSION                          | 0.0422 |

PIA: Personal Injury Accidents

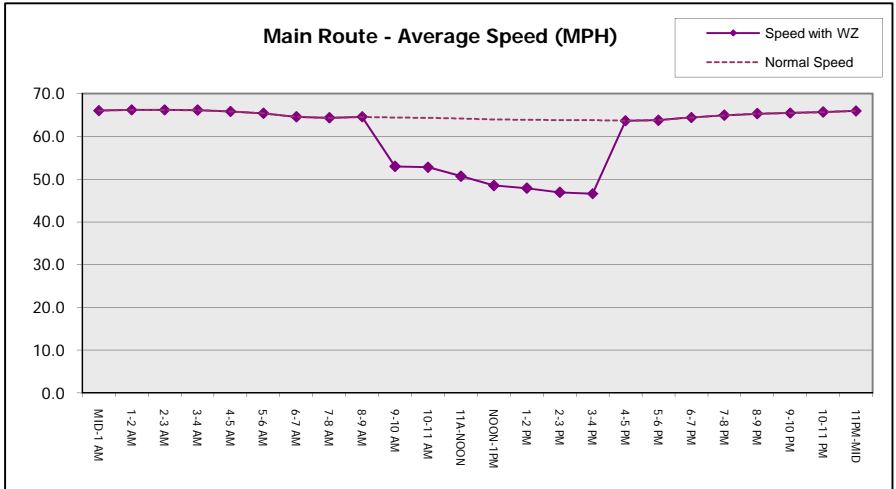
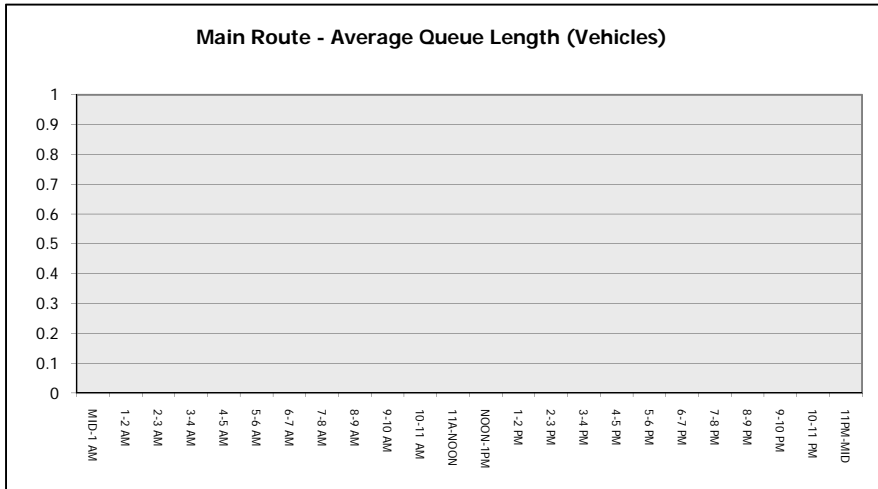
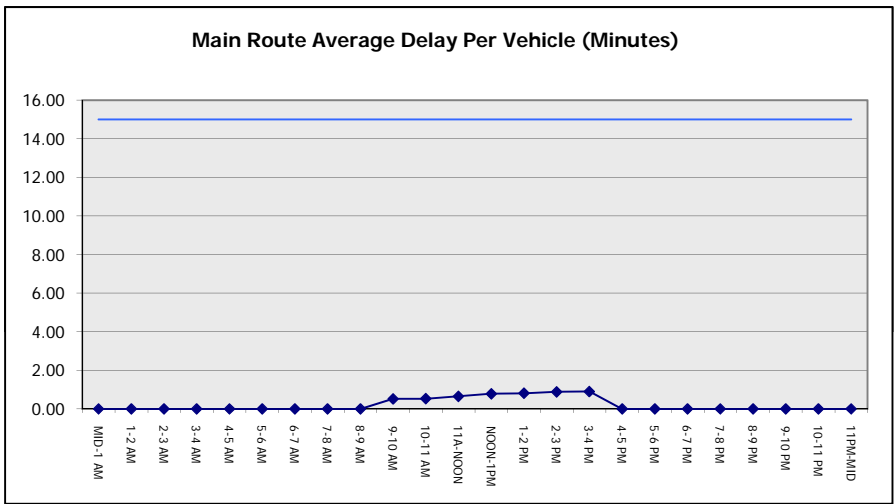
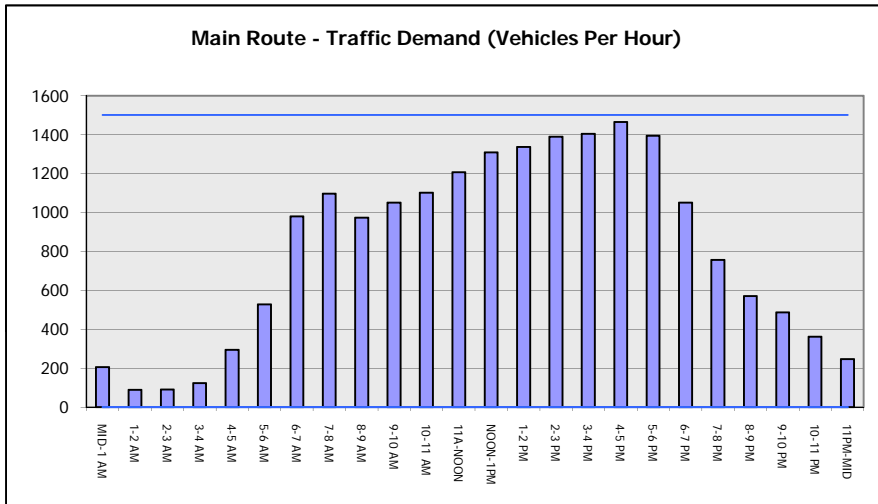
| IMPACTS ON ROAD USERS              |         |
|------------------------------------|---------|
| ROAD USER COSTS PER DAY ( DOLLARS) | \$1,527 |
| CONGESTED HOURS PER DAY*           | 0       |

\*Delays Exceeding 15 Minutes

**IH 43: STH 42 TO STH 28 (SHEBOYGAN COUNTY)**  
**OFF-PEAK DAY CLOSURE**  
**DIVERSION ROUTE: STH 28 - CTH TA - STH 23**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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



|  |  |
|--|--|
| <b>IH 43: STH 42 TO STH 28 (SHEBOYGAN COUNTY)</b><br><b>OFF-PEAK DAY CLOSURE</b><br><b>DIVERSION ROUTE: STH 28 - CTH TA - STH 23</b> | <b>AUGUST</b>                            |
|  | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY      NORTHBOUND DIRECTION

| TIME OF DAY | FLOWS AND CAPACITY IN VEH/HR |           |             |           |                |                 |                  | TOTAL     |                       |                     | AVERAGE SPEEDS IN MPH |              |      |                 |              |  |
|-------------|------------------------------|-----------|-------------|-----------|----------------|-----------------|------------------|-----------|-----------------------|---------------------|-----------------------|--------------|------|-----------------|--------------|--|
|             | MAIN                         |           | DIVERSION   |           | SITE CAPA CITY | FLOW MAIN ROUTE | FLOW DIVER -TING | 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    | 241                          | 0.0       | 117         | 0.0       | OFF            | 241             | 0                | 117       | 0.00                  | 0                   | 66.0                  | 66.0         | 66.0 | 24.0            | 24.0         |  |
| 1-2 AM      | 157                          | 0.0       | 76          | 0.0       | OFF            | 157             | 0                | 76        | 0.00                  | 0                   | 66.1                  | 66.1         | 66.1 | 24.3            | 24.3         |  |
| 2-3 AM      | 111                          | 0.0       | 54          | 0.0       | OFF            | 111             | 0                | 54        | 0.00                  | 0                   | 66.2                  | 66.2         | 66.2 | 24.4            | 24.4         |  |
| 3-4 AM      | 121                          | 0.0       | 59          | 0.0       | OFF            | 121             | 0                | 59        | 0.00                  | 0                   | 66.1                  | 66.1         | 66.1 | 24.4            | 24.4         |  |
| 4-5 AM      | 196                          | 0.0       | 95          | 0.0       | OFF            | 196             | 0                | 95        | 0.00                  | 0                   | 66.0                  | 66.0         | 66.0 | 24.1            | 24.1         |  |
| 5-6 AM      | 348                          | 0.0       | 168         | 0.0       | OFF            | 348             | 0                | 168       | 0.00                  | 0                   | 65.8                  | 65.8         | 65.8 | 23.5            | 23.5         |  |
| 6-7 AM      | 688                          | 0.0       | 333         | 0.0       | OFF            | 688             | 0                | 333       | 0.00                  | 0                   | 65.1                  | 65.1         | 65.1 | 22.3            | 22.3         |  |
| 7-8 AM      | 1004                         | 0.0       | 487         | 0.0       | OFF            | 1004            | 0                | 487       | 0.00                  | 0                   | 64.5                  | 64.5         | 64.5 | 21.1            | 21.1         |  |
| 8-9 AM      | 981                          | 0.0       | 476         | 0.0       | OFF            | 981             | 0                | 476       | 0.00                  | 0                   | 64.6                  | 64.6         | 64.6 | 21.2            | 21.2         |  |
| 9-10 AM     | 1231                         | 0.0       | 596         | 0.0       | 1500           | 1231            | 0                | 596       | 0.68                  | 0                   | 64.1                  | 50.1         | 37.5 | 20.2            | 20.2         |  |
| 10-11 AM    | 1420                         | 0.0       | 688         | 0.0       | 1499           | 1420            | 0                | 688       | 0.92                  | 0                   | 63.7                  | 46.3         | 32.5 | 19.6            | 19.6         |  |
| 11A-NOON    | 1637                         | 0.0       | 793         | 0.0       | 1499           | 1637            | 0                | 793       | 2.98                  | 60                  | 63.3                  | 28.6         | 30.8 | 18.8            | 18.8         |  |
| NOON-1PM    | 1667                         | 0.0       | 807         | 0.0       | 1499           | 1629            | 38               | 846       | 8.62                  | 209                 | 63.3                  | 14.0         | 30.8 | 18.6            | 18.4         |  |
| 1-2 PM      | 1749                         | 0.0       | 848         | 0.0       | 1499           | 1526            | 224              | 1072      | 11.28                 | 277                 | 63.2                  | 11.6         | 30.8 | 18.3            | 16.8         |  |
| 2-3 PM      | 1962                         | 0.0       | 951         | 0.0       | 1500           | 1571            | 391              | 1341+     | 13.30                 | 332                 | 62.7                  | 10.6         | 30.8 | 17.6            | 15.2         |  |
| 3-4 PM      | 2136                         | 0.0       | 1035        | 0.0       | 1500           | 1569            | 567              | 1601+     | 15.87                 | 402                 | 62.4                  | 9.7          | 30.8 | 16.9            | 13.6         |  |
| 4-5 PM      | 2217                         | 0.0       | 1074        | 0.0       | OFF            | 2217            | 0                | 1074      | 0.91                  | 52                  | 62.2                  | 45.7         | 45.7 | 16.6            | 16.6         |  |
| 5-6 PM      | 2120                         | 0.0       | 1027        | 0.0       | OFF            | 2120            | 0                | 1027      | 0.00                  | 0                   | 62.4                  | 62.4         | 62.4 | 17.0            | 17.0         |  |
| 6-7 PM      | 1843                         | 0.0       | 893         | 0.0       | OFF            | 1843            | 0                | 893       | 0.00                  | 0                   | 63.0                  | 63.0         | 63.0 | 18.0            | 18.0         |  |
| 7-8 PM      | 1419                         | 0.0       | 688         | 0.0       | OFF            | 1419            | 0                | 688       | 0.00                  | 0                   | 63.7                  | 63.7         | 63.7 | 19.6            | 19.6         |  |
| 8-9 PM      | 1161                         | 0.0       | 562         | 0.0       | OFF            | 1161            | 0                | 562       | 0.00                  | 0                   | 64.2                  | 64.2         | 64.2 | 20.6            | 20.6         |  |
| 9-10 PM     | 930                          | 0.0       | 450         | 0.0       | OFF            | 930             | 0                | 450       | 0.00                  | 0                   | 64.6                  | 64.6         | 64.6 | 21.4            | 21.4         |  |
| 10-11 PM    | 742                          | 0.0       | 359         | 0.0       | OFF            | 742             | 0                | 359       | 0.00                  | 0                   | 65.0                  | 65.0         | 65.0 | 22.1            | 22.1         |  |
| 11PM-MID    | 475                          | 0.0       | 230         | 0.0       | OFF            | 475             | 0                | 230       | 0.00                  | 0                   | 65.5                  | 65.5         | 65.5 | 23.1            | 23.1         |  |

"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           | 0.0110 |
| MAIN ROUTE WITH WORKS              | 0.0098 |
| DIVERSION                          | 0.0629 |

PIA: Personal Injury Accidents

| IMPACTS ON ROAD USERS              |          |
|------------------------------------|----------|
| ROAD USER COSTS PER DAY ( DOLLARS) | \$24,206 |
| CONGESTED HOURS PER DAY*           | 1        |

\*Delays Exceeding 15 Minutes

**IH 43: STH 42 TO STH 28 (SHEBOYGAN COUNTY)**  
**OFF-PEAK DAY CLOSURE**  
**DIVERSION ROUTE: STH 28 - CTH TA - STH 23**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY NORTHBOUND DIRECTION**

