

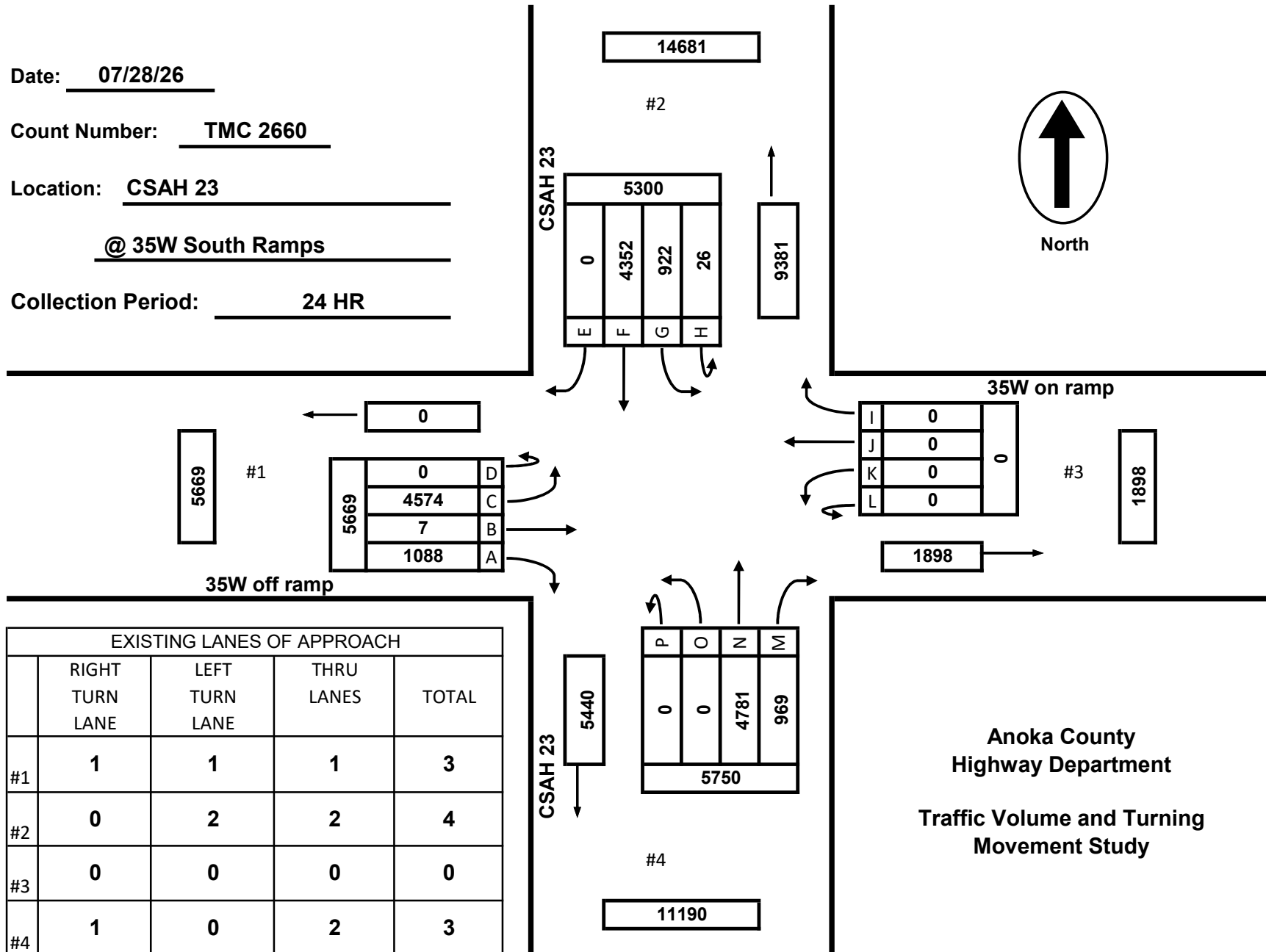
Date: 07/28/26

Count Number: TMC 2660

Location: CSAH 23

@ 35W South Ramps

Collection Period: 24 HR



Anoka County  
Highway Department  
Traffic Volume and Turning  
Movement Study

Date: 07/28/26

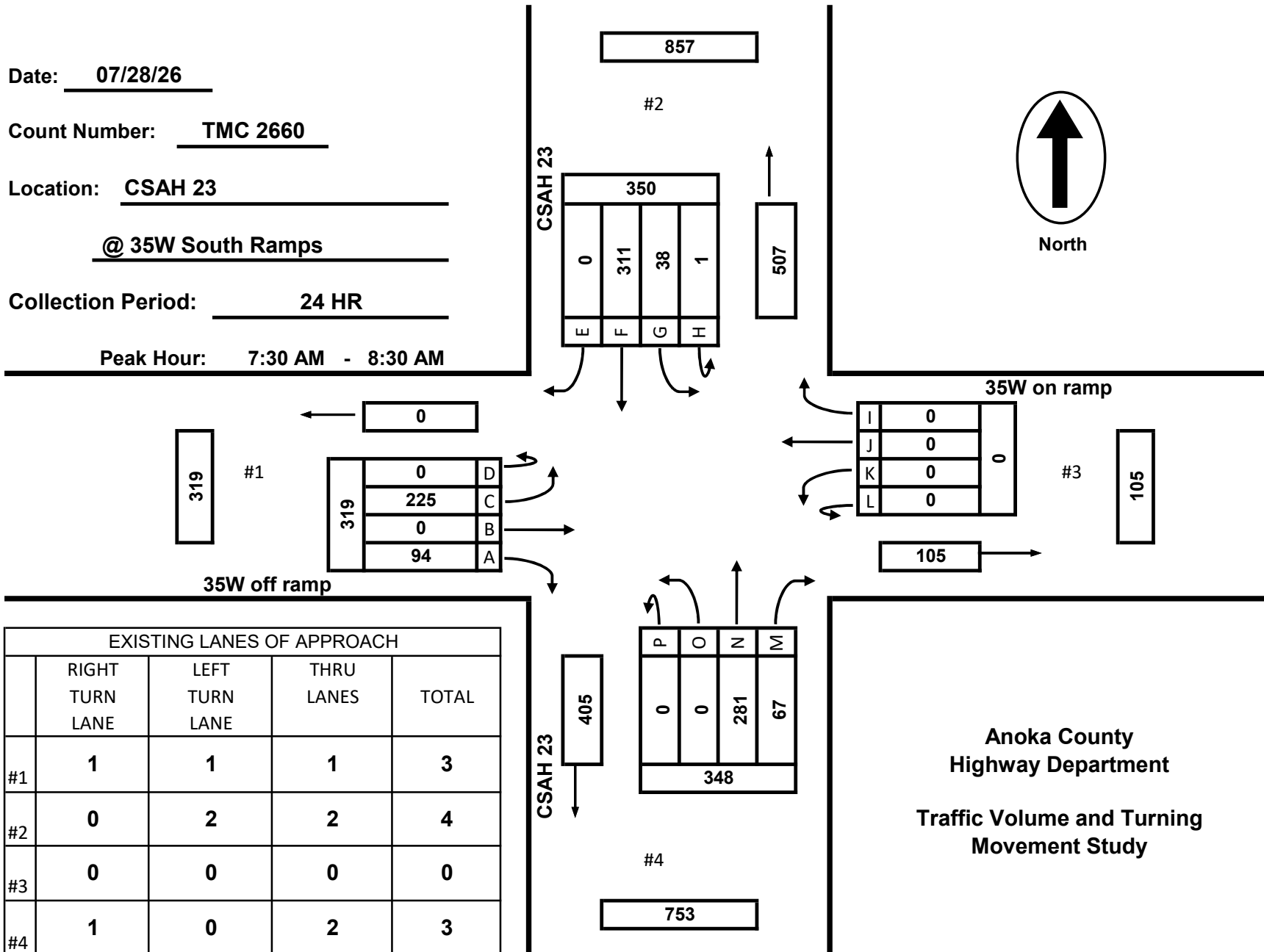
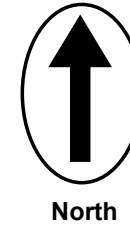
Count Number: TMC 2660

Location: CSAH 23

@ 35W South Ramps

Collection Period: 24 HR

Peak Hour: 7:30 AM - 8:30 AM



Anoka County  
Highway Department  
Traffic Volume and Turning  
Movement Study

Date: 07/28/26

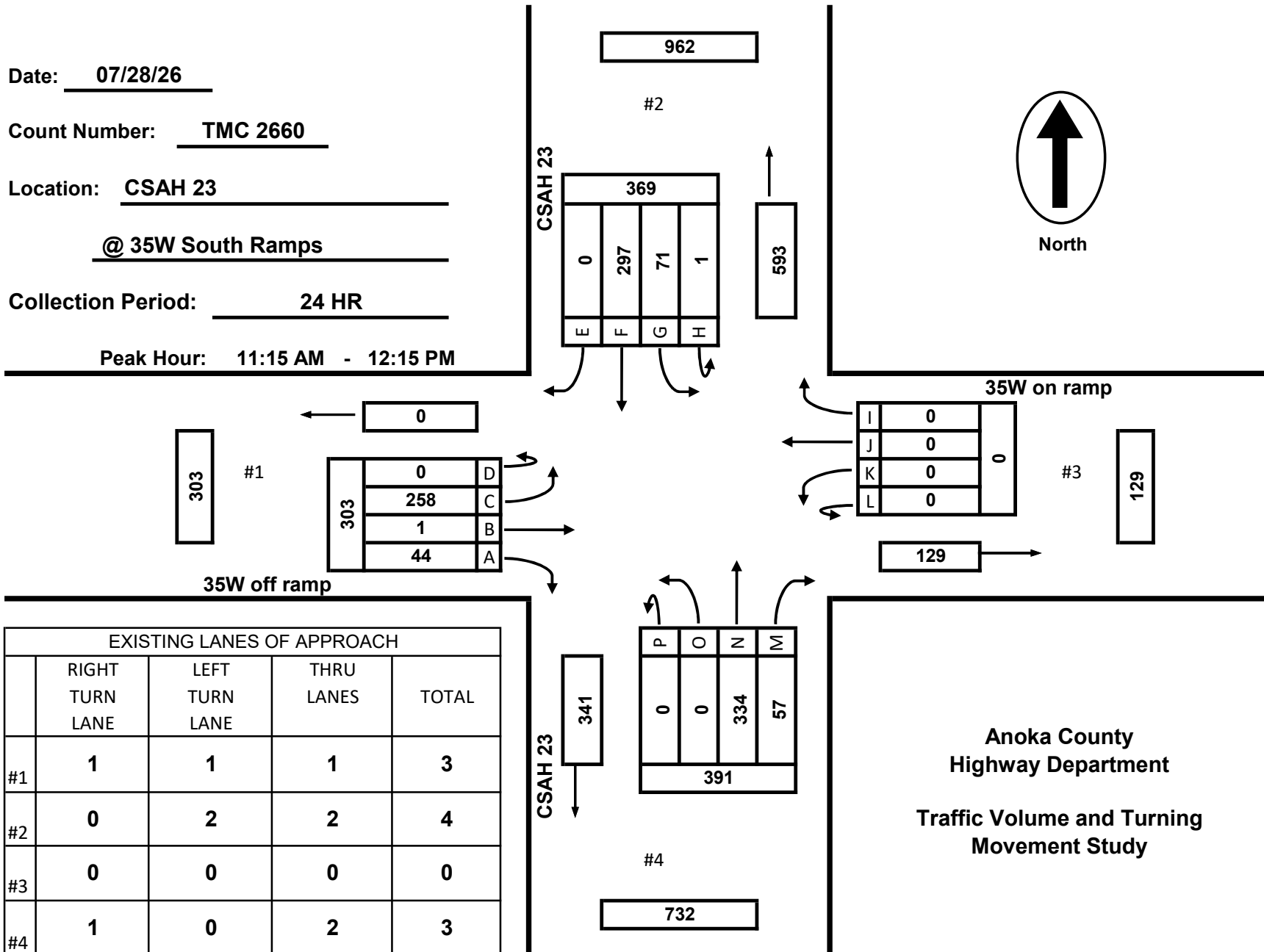
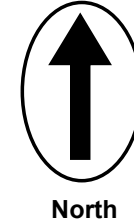
Count Number: TMC 2660

Location: CSAH 23

@ 35W South Ramps

Collection Period: 24 HR

Peak Hour: 11:15 AM - 12:15 PM



Anoka County  
Highway Department  
Traffic Volume and Turning  
Movement Study

Date: 07/28/26

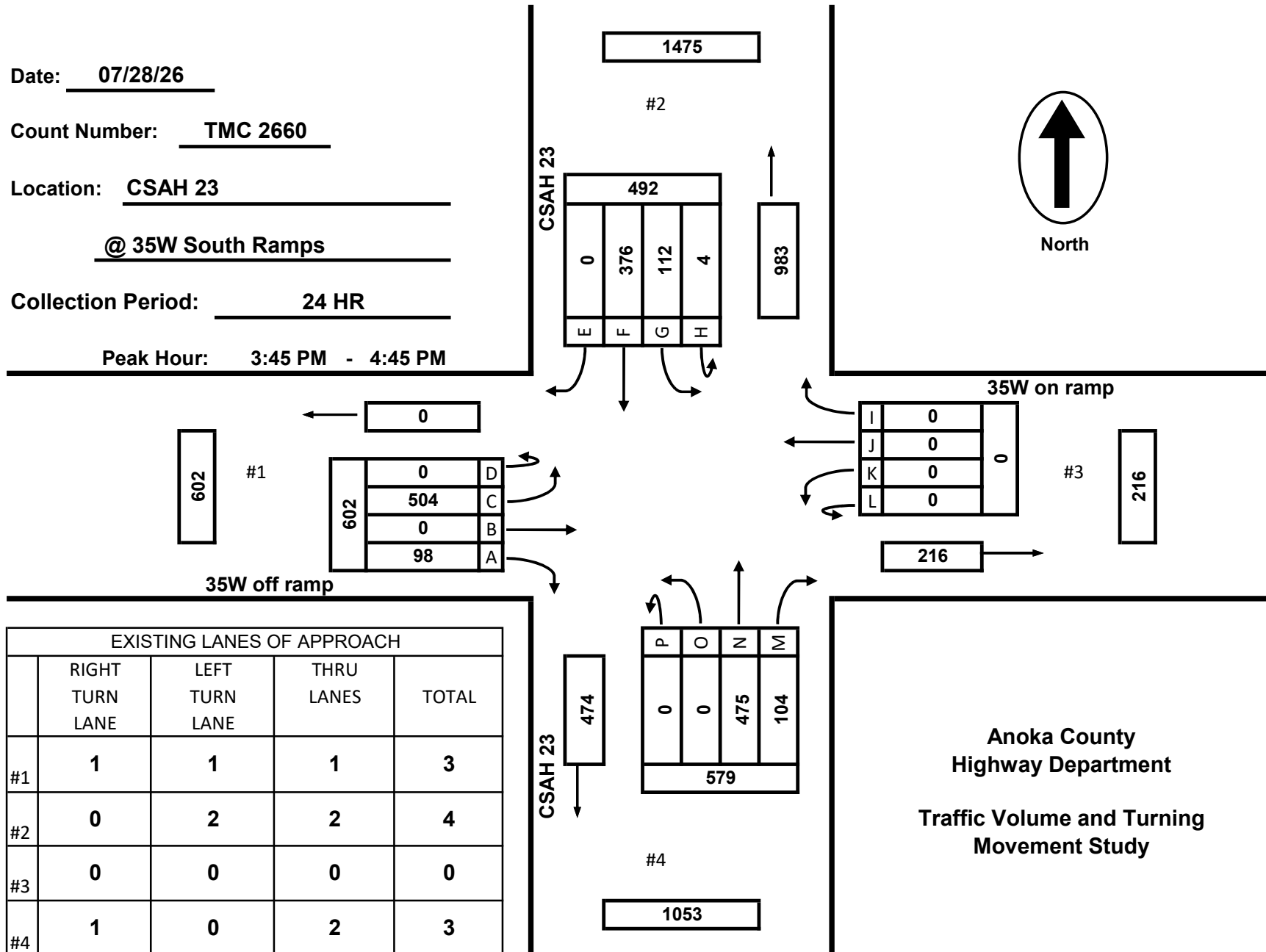
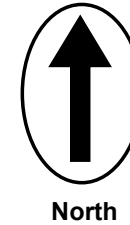
Count Number: TMC 2660

Location: CSAH 23

@ 35W South Ramps

Collection Period: 24 HR

Peak Hour: 3:45 PM - 4:45 PM



**TMC 2660 - CSAH 23 @ 35W South Ramps**  
**Lino Lakes MN**  
**Tuesday, July 28, 2026**

| Time         | Southbound<br>CSAH 23 |            |                     |                |                        |                              | Westbound<br>none |            |                     |                |                        |                              | Northbound<br>CSAH 23 |            |                     |                |                        |                              | Eastbound<br>35W off ramp |            |                     |                |                        |                              | VEHICLE<br>TOTAL |
|--------------|-----------------------|------------|---------------------|----------------|------------------------|------------------------------|-------------------|------------|---------------------|----------------|------------------------|------------------------------|-----------------------|------------|---------------------|----------------|------------------------|------------------------------|---------------------------|------------|---------------------|----------------|------------------------|------------------------------|------------------|
|              | U Turns               | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total | U Turns           | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total | U Turns               | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total | U Turns                   | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total |                  |
| 12:00 AM     | 0                     | 1          | 2                   | 0              | 0                      | 3                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 1                   | 3              | 0                      | 4                            | 0                         | 4          | 0                   | 2              | 0                      | 6                            | 13               |
| 12:15 AM     | 0                     | 1          | 3                   | 0              | 0                      | 4                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 4                   | 3              | 0                      | 7                            | 0                         | 14         | 0                   | 8              | 0                      | 6                            | 33               |
| 12:30 AM     | 0                     | 3          | 3                   | 0              | 0                      | 6                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 4                   | 1              | 0                      | 5                            | 0                         | 4          | 0                   | 1              | 0                      | 5                            | 16               |
| 12:45 AM     | 0                     | 1          | 6                   | 0              | 0                      | 7                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 4                   | 2              | 0                      | 6                            | 0                         | 5          | 0                   | 0              | 0                      | 5                            | 18               |
| Hourly Total | 0                     | 6          | 14                  | 0              | 0                      | 20                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 13                  | 9              | 0                      | 22                           | 0                         | 27         | 0                   | 11             | 0                      | 38                           | 80               |
| 1:00 AM      | 0                     | 0          | 2                   | 0              | 0                      | 2                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 3                   | 0              | 0                      | 3                            | 0                         | 1          | 0                   | 2              | 0                      | 3                            | 8                |
| 1:15 AM      | 0                     | 0          | 2                   | 0              | 0                      | 2                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 9                   | 1              | 0                      | 10                           | 0                         | 1          | 0                   | 1              | 0                      | 2                            | 14               |
| 1:30 AM      | 0                     | 0          | 2                   | 0              | 0                      | 2                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 11                  | 1              | 0                      | 12                           | 0                         | 4          | 0                   | 1              | 0                      | 5                            | 19               |
| 1:45 AM      | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 4                   | 0              | 0                      | 4                            | 0                         | 4          | 0                   | 2              | 0                      | 6                            | 11               |
| Hourly Total | 0                     | 0          | 7                   | 0              | 0                      | 7                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 27                  | 2              | 0                      | 29                           | 0                         | 10         | 0                   | 6              | 0                      | 16                           | 52               |
| 2:00 AM      | 0                     | 1          | 2                   | 0              | 0                      | 3                            | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 4                   | 0              | 0                      | 4                            | 0                         | 2          | 0                   | 0              | 0                      | 2                            | 9                |
| 2:15 AM      | 0                     | 0          | 4                   | 0              | 0                      | 4                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 2                   | 0              | 0                      | 2                            | 0                         | 0          | 0                   | 1              | 0                      | 1                            | 7                |
| 2:30 AM      | 0                     | 1          | 1                   | 0              | 0                      | 2                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 2                   | 0              | 0                      | 2                            | 0                         | 3          | 0                   | 1              | 0                      | 4                            | 8                |
| 2:45 AM      | 0                     | 1          | 1                   | 0              | 0                      | 2                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 4                   | 2              | 0                      | 6                            | 0                         | 7          | 0                   | 2              | 0                      | 9                            | 17               |
| Hourly Total | 0                     | 3          | 8                   | 0              | 0                      | 11                           | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 12                  | 2              | 0                      | 14                           | 0                         | 12         | 0                   | 4              | 0                      | 16                           | 41               |
| 3:00 AM      | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 2                   | 1              | 0                      | 3                            | 0                         | 4          | 0                   | 0              | 0                      | 4                            | 8                |
| 3:15 AM      | 0                     | 1          | 3                   | 0              | 0                      | 4                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 3                   | 0              | 0                      | 3                            | 0                         | 3          | 0                   | 3              | 0                      | 6                            | 13               |
| 3:30 AM      | 0                     | 0          | 5                   | 0              | 0                      | 5                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 2                   | 0              | 0                      | 2                            | 0                         | 3          | 0                   | 0              | 0                      | 3                            | 10               |
| 3:45 AM      | 0                     | 0          | 3                   | 0              | 0                      | 3                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 5                   | 0              | 0                      | 5                            | 0                         | 10         | 0                   | 1              | 0                      | 11                           | 19               |
| Hourly Total | 0                     | 1          | 12                  | 0              | 0                      | 13                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 12                  | 1              | 0                      | 13                           | 0                         | 20         | 0                   | 4              | 0                      | 24                           | 50               |
| 4:00 AM      | 0                     | 1          | 4                   | 0              | 0                      | 5                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 1                   | 0              | 0                      | 1                            | 0                         | 3          | 0                   | 0              | 0                      | 3                            | 9                |
| 4:15 AM      | 0                     | 0          | 4                   | 0              | 0                      | 4                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 4                   | 0              | 0                      | 4                            | 0                         | 2          | 0                   | 1              | 0                      | 3                            | 11               |
| 4:30 AM      | 0                     | 0          | 13                  | 0              | 0                      | 13                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 9                   | 0              | 0                      | 9                            | 0                         | 17         | 0                   | 5              | 0                      | 22                           | 44               |
| 4:45 AM      | 0                     | 1          | 13                  | 0              | 0                      | 14                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 7                   | 1              | 0                      | 8                            | 0                         | 12         | 0                   | 5              | 0                      | 17                           | 39               |
| Hourly Total | 0                     | 2          | 34                  | 0              | 0                      | 36                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 21                  | 1              | 0                      | 22                           | 0                         | 34         | 0                   | 11             | 0                      | 45                           | 103              |
| 5:00 AM      | 0                     | 2          | 18                  | 0              | 0                      | 20                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 11                  | 6              | 0                      | 17                           | 0                         | 11         | 0                   | 3              | 0                      | 14                           | 51               |
| 5:15 AM      | 0                     | 4          | 13                  | 0              | 0                      | 17                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 19                  | 4              | 0                      | 23                           | 0                         | 13         | 0                   | 5              | 0                      | 18                           | 58               |
| 5:30 AM      | 0                     | 4          | 14                  | 0              | 0                      | 18                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 26                  | 3              | 0                      | 29                           | 0                         | 25         | 0                   | 6              | 0                      | 31                           | 78               |
| 5:45 AM      | 0                     | 1          | 25                  | 0              | 0                      | 26                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 21                  | 6              | 0                      | 27                           | 0                         | 35         | 0                   | 9              | 0                      | 44                           | 97               |
| Hourly Total | 0                     | 11         | 70                  | 0              | 0                      | 81                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 77                  | 19             | 0                      | 96                           | 0                         | 84         | 0                   | 23             | 0                      | 107                          | 284              |
| 6:00 AM      | 0                     | 6          | 21                  | 0              | 0                      | 27                           | 0                 | 0          | 0                   | 0              | 3                      | 0                            | 0                     | 0          | 23                  | 5              | 0                      | 28                           | 0                         | 32         | 1                   | 10             | 0                      | 43                           | 98               |
| 6:15 AM      | 0                     | 3          | 44                  | 0              | 0                      | 47                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 27                  | 4              | 0                      | 31                           | 0                         | 42         | 0                   | 9              | 0                      | 51                           | 129              |
| 6:30 AM      | 0                     | 10         | 33                  | 0              | 0                      | 43                           | 0                 | 0          | 0                   | 0              | 3                      | 0                            | 0                     | 0          | 53                  | 16             | 0                      | 69                           | 0                         | 43         | 0                   | 9              | 0                      | 52                           | 164              |
| 6:45 AM      | 0                     | 7          | 54                  | 0              | 0                      | 61                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 50                  | 12             | 0                      | 62                           | 0                         | 52         | 0                   | 17             | 0                      | 69                           | 192              |
| Hourly Total | 0                     | 26         | 152                 | 0              | 0                      | 178                          | 0                 | 0          | 0                   | 0              | 6                      | 0                            | 0                     | 0          | 153                 | 37             | 0                      | 190                          | 0                         | 169        | 1                   | 45             | 0                      | 215                          | 583              |
| 7:00 AM      | 0                     | 14         | 45                  | 0              | 0                      | 59                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 42                  | 19             | 0                      | 61                           | 0                         | 61         | 0                   | 6              | 0                      | 67                           | 187              |
| 7:15 AM      | 0                     | 7          | 75                  | 0              | 0                      | 82                           | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 52                  | 15             | 0                      | 67                           | 0                         | 58         | 0                   | 9              | 0                      | 67                           | 216              |
| 7:30 AM      | 1                     | 10         | 78                  | 0              | 0                      | 89                           | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 65                  | 26             | 0                      | 91                           | 0                         | 62         | 0                   | 21             | 0                      | 83                           | 263              |
| 7:45 AM      | 0                     | 11         | 78                  | 0              | 0                      | 89                           | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 91                  | 12             | 0                      | 103                          | 0                         | 64         | 0                   | 34             | 0                      | 98                           | 290              |
| Hourly Total | 1                     | 42         | 276                 | 0              | 0                      | 319                          | 0                 | 0          | 0                   | 0              | 3                      | 0                            | 0                     | 0          | 250                 | 72             | 0                      | 322                          | 0                         | 245        | 0                   | 70             | 0                      | 315                          | 956              |

**TMC 2660 - CSAH 23 @ 35W South Ramps**  
**Lino Lakes MN**  
**Tuesday, July 28, 2026**

| Time         | Southbound<br>CSAH 23 |            |                     |                |                        |                              | Westbound<br>none |            |                     |                |                        |                              | Northbound<br>CSAH 23 |            |                     |                |                        |                              | Eastbound<br>35W off ramp |            |                     |                |                        |                              | VEHICLE<br>TOTAL |
|--------------|-----------------------|------------|---------------------|----------------|------------------------|------------------------------|-------------------|------------|---------------------|----------------|------------------------|------------------------------|-----------------------|------------|---------------------|----------------|------------------------|------------------------------|---------------------------|------------|---------------------|----------------|------------------------|------------------------------|------------------|
|              | U Turns               | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total | U Turns           | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total | U Turns               | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total | U Turns                   | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total |                  |
| 8:00 AM      | 0                     | 10         | 75                  | 0              | 0                      | 85                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 57                  | 12             | 0                      | 69                           | 0                         | 47         | 0                   | 16             | 0                      | 63                           | 217              |
| 8:15 AM      | 0                     | 7          | 80                  | 0              | 0                      | 87                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 68                  | 17             | 0                      | 85                           | 0                         | 52         | 0                   | 23             | 0                      | 75                           | 247              |
| 8:30 AM      | 0                     | 16         | 66                  | 0              | 0                      | 82                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 64                  | 19             | 0                      | 83                           | 0                         | 37         | 0                   | 20             | 0                      | 57                           | 222              |
| 8:45 AM      | 0                     | 4          | 79                  | 0              | 0                      | 83                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 89                  | 15             | 0                      | 104                          | 0                         | 46         | 0                   | 18             | 0                      | 64                           | 251              |
| Hourly Total | 0                     | 37         | 300                 | 0              | 0                      | 337                          | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 278                 | 63             | 0                      | 341                          | 0                         | 182        | 0                   | 77             | 0                      | 259                          | 937              |
| 9:00 AM      | 0                     | 14         | 60                  | 0              | 0                      | 74                           | 0                 | 0          | 0                   | 0              | 3                      | 0                            | 0                     | 0          | 99                  | 18             | 0                      | 117                          | 0                         | 46         | 0                   | 15             | 0                      | 61                           | 252              |
| 9:15 AM      | 0                     | 12         | 74                  | 0              | 0                      | 86                           | 0                 | 0          | 0                   | 0              | 4                      | 0                            | 0                     | 0          | 64                  | 17             | 0                      | 81                           | 0                         | 49         | 1                   | 14             | 0                      | 64                           | 231              |
| 9:30 AM      | 0                     | 5          | 56                  | 0              | 0                      | 61                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 55                  | 18             | 0                      | 73                           | 0                         | 47         | 0                   | 11             | 0                      | 58                           | 192              |
| 9:45 AM      | 0                     | 6          | 68                  | 0              | 0                      | 74                           | 0                 | 0          | 0                   | 0              | 2                      | 0                            | 0                     | 0          | 75                  | 12             | 0                      | 87                           | 0                         | 48         | 0                   | 17             | 0                      | 65                           | 226              |
| Hourly Total | 0                     | 37         | 258                 | 0              | 0                      | 295                          | 0                 | 0          | 0                   | 0              | 9                      | 0                            | 0                     | 0          | 293                 | 65             | 0                      | 358                          | 0                         | 190        | 1                   | 57             | 0                      | 248                          | 901              |
| 10:00 AM     | 2                     | 15         | 48                  | 0              | 0                      | 65                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 55                  | 17             | 0                      | 72                           | 0                         | 53         | 0                   | 9              | 0                      | 62                           | 199              |
| 10:15 AM     | 3                     | 5          | 62                  | 0              | 0                      | 70                           | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 64                  | 8              | 0                      | 72                           | 0                         | 45         | 0                   | 7              | 0                      | 52                           | 194              |
| 10:30 AM     | 0                     | 8          | 63                  | 0              | 0                      | 71                           | 0                 | 0          | 0                   | 0              | 2                      | 0                            | 0                     | 0          | 63                  | 7              | 0                      | 70                           | 0                         | 54         | 0                   | 10             | 0                      | 64                           | 205              |
| 10:45 AM     | 0                     | 13         | 62                  | 0              | 0                      | 75                           | 0                 | 0          | 0                   | 0              | 2                      | 0                            | 0                     | 0          | 76                  | 7              | 0                      | 83                           | 0                         | 63         | 0                   | 16             | 0                      | 79                           | 237              |
| Hourly Total | 5                     | 41         | 235                 | 0              | 0                      | 281                          | 0                 | 0          | 0                   | 0              | 5                      | 0                            | 0                     | 0          | 258                 | 39             | 0                      | 297                          | 0                         | 215        | 0                   | 42             | 0                      | 257                          | 835              |
| 11:00 AM     | 0                     | 13         | 70                  | 0              | 0                      | 83                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 76                  | 14             | 0                      | 90                           | 0                         | 64         | 0                   | 15             | 0                      | 79                           | 252              |
| 11:15 AM     | 0                     | 15         | 89                  | 0              | 0                      | 104                          | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 68                  | 15             | 0                      | 83                           | 0                         | 71         | 0                   | 12             | 0                      | 83                           | 270              |
| 11:30 AM     | 0                     | 19         | 61                  | 0              | 0                      | 80                           | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 83                  | 21             | 0                      | 104                          | 0                         | 62         | 1                   | 10             | 0                      | 73                           | 257              |
| 11:45 AM     | 0                     | 10         | 69                  | 0              | 0                      | 79                           | 0                 | 0          | 0                   | 0              | 2                      | 0                            | 0                     | 0          | 97                  | 9              | 0                      | 106                          | 0                         | 53         | 0                   | 13             | 0                      | 66                           | 251              |
| Hourly Total | 0                     | 57         | 289                 | 0              | 0                      | 346                          | 0                 | 0          | 0                   | 0              | 3                      | 0                            | 0                     | 0          | 324                 | 59             | 0                      | 383                          | 0                         | 250        | 1                   | 50             | 0                      | 301                          | 1030             |
| 12:00 PM     | 1                     | 27         | 78                  | 0              | 0                      | 106                          | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 86                  | 12             | 0                      | 98                           | 0                         | 72         | 0                   | 9              | 0                      | 81                           | 285              |
| 12:15 PM     | 0                     | 11         | 65                  | 0              | 0                      | 76                           | 0                 | 0          | 0                   | 0              | 2                      | 0                            | 0                     | 0          | 86                  | 13             | 0                      | 99                           | 0                         | 67         | 0                   | 11             | 0                      | 78                           | 253              |
| 12:30 PM     | 1                     | 15         | 67                  | 0              | 0                      | 83                           | 0                 | 0          | 0                   | 0              | 3                      | 0                            | 0                     | 0          | 79                  | 12             | 0                      | 91                           | 0                         | 56         | 0                   | 9              | 0                      | 65                           | 239              |
| 12:45 PM     | 0                     | 10         | 58                  | 0              | 0                      | 68                           | 0                 | 0          | 0                   | 0              | 2                      | 0                            | 0                     | 0          | 87                  | 14             | 0                      | 101                          | 0                         | 58         | 0                   | 19             | 0                      | 77                           | 246              |
| Hourly Total | 2                     | 63         | 268                 | 0              | 0                      | 333                          | 0                 | 0          | 0                   | 0              | 7                      | 0                            | 0                     | 0          | 338                 | 51             | 0                      | 389                          | 0                         | 253        | 0                   | 48             | 0                      | 301                          | 1023             |
| 1:00 PM      | 0                     | 9          | 69                  | 0              | 0                      | 78                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 69                  | 10             | 0                      | 79                           | 0                         | 58         | 0                   | 18             | 0                      | 76                           | 233              |
| 1:15 PM      | 1                     | 13         | 77                  | 0              | 0                      | 91                           | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 80                  | 12             | 0                      | 92                           | 0                         | 67         | 0                   | 13             | 0                      | 80                           | 263              |
| 1:30 PM      | 0                     | 17         | 63                  | 0              | 0                      | 80                           | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 75                  | 12             | 0                      | 87                           | 0                         | 79         | 0                   | 15             | 0                      | 94                           | 261              |
| 1:45 PM      | 2                     | 12         | 65                  | 0              | 0                      | 79                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 56                  | 14             | 0                      | 70                           | 0                         | 74         | 0                   | 15             | 0                      | 89                           | 238              |
| Hourly Total | 3                     | 51         | 274                 | 0              | 0                      | 328                          | 0                 | 0          | 0                   | 0              | 2                      | 0                            | 0                     | 0          | 280                 | 48             | 0                      | 328                          | 0                         | 278        | 0                   | 61             | 0                      | 339                          | 995              |
| 2:00 PM      | 1                     | 17         | 76                  | 0              | 0                      | 94                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 87                  | 18             | 0                      | 105                          | 0                         | 79         | 1                   | 20             | 0                      | 100                          | 299              |
| 2:15 PM      | 0                     | 24         | 66                  | 0              | 0                      | 90                           | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 58                  | 17             | 0                      | 75                           | 0                         | 87         | 0                   | 15             | 0                      | 102                          | 267              |
| 2:30 PM      | 1                     | 23         | 81                  | 0              | 0                      | 105                          | 0                 | 0          | 0                   | 0              | 2                      | 0                            | 0                     | 0          | 93                  | 17             | 0                      | 110                          | 0                         | 106        | 0                   | 25             | 0                      | 131                          | 346              |
| 2:45 PM      | 1                     | 18         | 85                  | 0              | 0                      | 104                          | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 99                  | 14             | 0                      | 113                          | 0                         | 108        | 1                   | 26             | 0                      | 135                          | 352              |
| Hourly Total | 3                     | 82         | 308                 | 0              | 0                      | 393                          | 0                 | 0          | 0                   | 0              | 4                      | 0                            | 0                     | 0          | 337                 | 66             | 0                      | 403                          | 0                         | 380        | 2                   | 86             | 0                      | 468                          | 1264             |
| 3:00 PM      | 0                     | 30         | 90                  | 0              | 0                      | 120                          | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 105                 | 16             | 0                      | 121                          | 0                         | 83         | 0                   | 20             | 0                      | 103                          | 344              |
| 3:15 PM      | 0                     | 28         | 90                  | 0              | 0                      | 118                          | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 88                  | 15             | 0                      | 103                          | 0                         | 130        | 0                   | 23             | 0                      | 153                          | 374              |
| 3:30 PM      | 1                     | 22         | 95                  | 0              | 0                      | 118                          | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 117                 | 21             | 0                      | 138                          | 0                         | 113        | 0                   | 27             | 0                      | 140                          | 396              |
| 3:45 PM      | 1                     | 22         | 107                 | 0              | 0                      | 130                          | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 130                 | 19             | 0                      | 149                          | 0                         | 122        | 0                   | 29             | 0                      | 151                          | 430              |
| Hourly Total | 2                     | 102        | 382                 | 0              | 0                      | 486                          | 0                 | 0          | 0                   | 0              | 2                      | 0                            | 0                     | 0          | 440                 | 71             | 0                      | 511                          | 0                         | 448        | 0                   | 99             | 0                      | 547                          | 1544             |

**TMC 2660 - CSAH 23 @ 35W South Ramps**  
**Lino Lakes MN**  
**Tuesday, July 28, 2026**

| Time                   | Southbound<br>CSAH 23 |            |                     |                |                        |                              | Westbound<br>none |            |                     |                |                        |                              | Northbound<br>CSAH 23 |            |                     |                |                        |                              | Eastbound<br>35W off ramp |             |                     |                |                        |                              | VEHICLE<br>TOTAL |
|------------------------|-----------------------|------------|---------------------|----------------|------------------------|------------------------------|-------------------|------------|---------------------|----------------|------------------------|------------------------------|-----------------------|------------|---------------------|----------------|------------------------|------------------------------|---------------------------|-------------|---------------------|----------------|------------------------|------------------------------|------------------|
|                        | U Turns               | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total | U Turns           | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total | U Turns               | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total | U Turns                   | Left Turns  | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total |                  |
| 4:00 PM                | 1                     | 35         | 96                  | 0              | 0                      | 132                          | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 123                 | 33             | 0                      | 156                          | 0                         | 128         | 0                   | 19             | 0                      | 147                          | 435              |
| 4:15 PM                | 1                     | 25         | 79                  | 0              | 0                      | 105                          | 0                 | 0          | 0                   | 0              | 5                      | 0                            | 0                     | 0          | 105                 | 19             | 0                      | 124                          | 0                         | 129         | 0                   | 24             | 0                      | 153                          | 382              |
| 4:30 PM                | 1                     | 30         | 94                  | 0              | 0                      | 125                          | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 117                 | 33             | 0                      | 150                          | 0                         | 125         | 0                   | 26             | 0                      | 151                          | 426              |
| 4:45 PM                | 1                     | 33         | 99                  | 0              | 0                      | 133                          | 0                 | 0          | 0                   | 0              | 2                      | 0                            | 0                     | 0          | 108                 | 16             | 0                      | 124                          | 0                         | 104         | 0                   | 33             | 0                      | 137                          | 394              |
| Hourly Total           | 4                     | 123        | 368                 | 0              | 0                      | 495                          | 0                 | 0          | 0                   | 0              | 8                      | 0                            | 0                     | 0          | 453                 | 101            | 0                      | 554                          | 0                         | 486         | 0                   | 102            | 0                      | 588                          | 1637             |
| 5:00 PM                | 1                     | 29         | 80                  | 0              | 0                      | 110                          | 0                 | 0          | 0                   | 0              | 3                      | 0                            | 0                     | 0          | 126                 | 31             | 0                      | 157                          | 0                         | 124         | 0                   | 19             | 0                      | 143                          | 410              |
| 5:15 PM                | 0                     | 18         | 88                  | 0              | 0                      | 106                          | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 106                 | 23             | 0                      | 129                          | 0                         | 124         | 0                   | 23             | 0                      | 147                          | 382              |
| 5:30 PM                | 0                     | 13         | 75                  | 0              | 0                      | 88                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 110                 | 24             | 0                      | 134                          | 0                         | 94          | 0                   | 11             | 0                      | 105                          | 327              |
| 5:45 PM                | 0                     | 15         | 60                  | 0              | 0                      | 75                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 77                  | 22             | 0                      | 99                           | 0                         | 76          | 0                   | 29             | 0                      | 105                          | 279              |
| Hourly Total           | 1                     | 75         | 303                 | 0              | 0                      | 379                          | 0                 | 0          | 0                   | 0              | 4                      | 0                            | 0                     | 0          | 419                 | 100            | 0                      | 519                          | 0                         | 418         | 0                   | 82             | 0                      | 500                          | 1398             |
| 6:00 PM                | 1                     | 13         | 63                  | 0              | 0                      | 77                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 80                  | 23             | 0                      | 103                          | 0                         | 96          | 0                   | 17             | 0                      | 113                          | 293              |
| 6:15 PM                | 0                     | 12         | 71                  | 0              | 0                      | 83                           | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 82                  | 13             | 0                      | 95                           | 0                         | 77          | 0                   | 21             | 0                      | 98                           | 276              |
| 6:30 PM                | 0                     | 17         | 66                  | 0              | 0                      | 83                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 69                  | 10             | 0                      | 79                           | 0                         | 56          | 1                   | 14             | 0                      | 71                           | 233              |
| 6:45 PM                | 1                     | 12         | 69                  | 0              | 0                      | 82                           | 0                 | 0          | 0                   | 0              | 4                      | 0                            | 0                     | 0          | 65                  | 11             | 0                      | 76                           | 0                         | 54          | 0                   | 14             | 0                      | 68                           | 226              |
| Hourly Total           | 2                     | 54         | 269                 | 0              | 0                      | 325                          | 0                 | 0          | 0                   | 0              | 5                      | 0                            | 0                     | 0          | 296                 | 57             | 0                      | 353                          | 0                         | 283         | 1                   | 66             | 0                      | 350                          | 1028             |
| 7:00 PM                | 0                     | 13         | 63                  | 0              | 0                      | 76                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 58                  | 19             | 0                      | 77                           | 0                         | 42          | 0                   | 10             | 0                      | 52                           | 205              |
| 7:15 PM                | 0                     | 7          | 51                  | 0              | 0                      | 58                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 42                  | 12             | 0                      | 54                           | 0                         | 48          | 0                   | 16             | 0                      | 64                           | 176              |
| 7:30 PM                | 1                     | 10         | 51                  | 0              | 0                      | 62                           | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 57                  | 5              | 0                      | 62                           | 0                         | 44          | 1                   | 8              | 0                      | 53                           | 177              |
| 7:45 PM                | 0                     | 4          | 44                  | 0              | 0                      | 48                           | 0                 | 0          | 0                   | 0              | 4                      | 0                            | 0                     | 0          | 33                  | 9              | 0                      | 42                           | 0                         | 45          | 0                   | 7              | 0                      | 52                           | 142              |
| Hourly Total           | 1                     | 34         | 209                 | 0              | 0                      | 244                          | 0                 | 0          | 0                   | 0              | 5                      | 0                            | 0                     | 0          | 190                 | 45             | 0                      | 235                          | 0                         | 179         | 1                   | 41             | 0                      | 221                          | 700              |
| 8:00 PM                | 0                     | 5          | 35                  | 0              | 0                      | 40                           | 0                 | 0          | 0                   | 0              | 2                      | 0                            | 0                     | 0          | 52                  | 7              | 0                      | 59                           | 0                         | 38          | 0                   | 6              | 0                      | 44                           | 143              |
| 8:15 PM                | 0                     | 8          | 45                  | 0              | 0                      | 53                           | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 35                  | 5              | 0                      | 40                           | 0                         | 43          | 0                   | 10             | 0                      | 53                           | 146              |
| 8:30 PM                | 1                     | 6          | 34                  | 0              | 0                      | 41                           | 0                 | 0          | 0                   | 0              | 2                      | 0                            | 0                     | 0          | 32                  | 12             | 0                      | 44                           | 0                         | 45          | 0                   | 10             | 0                      | 55                           | 140              |
| 8:45 PM                | 0                     | 6          | 34                  | 0              | 0                      | 40                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 29                  | 5              | 0                      | 34                           | 0                         | 51          | 0                   | 3              | 0                      | 54                           | 128              |
| Hourly Total           | 1                     | 25         | 148                 | 0              | 0                      | 174                          | 0                 | 0          | 0                   | 0              | 5                      | 0                            | 0                     | 0          | 148                 | 29             | 0                      | 177                          | 0                         | 177         | 0                   | 29             | 0                      | 206                          | 557              |
| 9:00 PM                | 0                     | 7          | 31                  | 0              | 0                      | 38                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 31                  | 8              | 0                      | 39                           | 0                         | 31          | 0                   | 7              | 0                      | 38                           | 115              |
| 9:15 PM                | 1                     | 6          | 20                  | 0              | 0                      | 27                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 22                  | 3              | 0                      | 25                           | 0                         | 32          | 0                   | 9              | 0                      | 41                           | 93               |
| 9:30 PM                | 0                     | 5          | 19                  | 0              | 0                      | 24                           | 0                 | 0          | 0                   | 0              | 4                      | 0                            | 0                     | 0          | 23                  | 9              | 0                      | 32                           | 0                         | 36          | 0                   | 8              | 0                      | 44                           | 100              |
| 9:45 PM                | 0                     | 6          | 15                  | 0              | 0                      | 21                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 9                   | 0              | 0                      | 9                            | 0                         | 22          | 0                   | 12             | 0                      | 34                           | 64               |
| Hourly Total           | 1                     | 24         | 85                  | 0              | 0                      | 110                          | 0                 | 0          | 0                   | 0              | 4                      | 0                            | 0                     | 0          | 85                  | 20             | 0                      | 105                          | 0                         | 121         | 0                   | 36             | 0                      | 157                          | 372              |
| 10:00 PM               | 0                     | 6          | 20                  | 0              | 0                      | 26                           | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 11                  | 2              | 0                      | 13                           | 0                         | 21          | 0                   | 8              | 0                      | 29                           | 68               |
| 10:15 PM               | 0                     | 5          | 13                  | 0              | 0                      | 18                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 16                  | 2              | 0                      | 18                           | 0                         | 31          | 0                   | 3              | 0                      | 34                           | 70               |
| 10:30 PM               | 0                     | 8          | 14                  | 0              | 0                      | 22                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 7                   | 4              | 0                      | 11                           | 0                         | 16          | 0                   | 5              | 0                      | 21                           | 54               |
| 10:45 PM               | 0                     | 1          | 14                  | 0              | 0                      | 15                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 15                  | 2              | 0                      | 17                           | 0                         | 13          | 0                   | 3              | 0                      | 16                           | 48               |
| Hourly Total           | 0                     | 20         | 61                  | 0              | 0                      | 81                           | 0                 | 0          | 0                   | 0              | 1                      | 0                            | 0                     | 0          | 49                  | 10             | 0                      | 59                           | 0                         | 81          | 0                   | 19             | 0                      | 100                          | 240              |
| 11:00 PM               | 0                     | 3          | 2                   | 0              | 0                      | 5                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 10                  | 1              | 0                      | 11                           | 0                         | 9           | 0                   | 6              | 0                      | 15                           | 31               |
| 11:15 PM               | 0                     | 1          | 7                   | 0              | 0                      | 8                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 6                   | 1              | 0                      | 7                            | 0                         | 8           | 0                   | 6              | 0                      | 14                           | 29               |
| 11:30 PM               | 0                     | 2          | 8                   | 0              | 0                      | 10                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 6                   | 0              | 0                      | 6                            | 0                         | 8           | 0                   | 4              | 0                      | 12                           | 28               |
| 11:45 PM               | 0                     | 0          | 5                   | 0              | 0                      | 5                            | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 6                   | 0              | 0                      | 6                            | 0                         | 7           | 0                   | 3              | 0                      | 10                           | 21               |
| Hourly Total           | 0                     | 6          | 22                  | 0              | 0                      | 28                           | 0                 | 0          | 0                   | 0              | 0                      | 0                            | 0                     | 0          | 28                  | 2              | 0                      | 30                           | 0                         | 32          | 0                   | 19             | 0                      | 51                           | 109              |
| <b>DAILY TOTAL</b>     | <b>26</b>             | <b>922</b> | <b>4352</b>         | <b>0</b>       | <b>0</b>               | <b>5300</b>                  | <b>0</b>          | <b>0</b>   | <b>0</b>            | <b>0</b>       | <b>74</b>              | <b>0</b>                     | <b>0</b>              | <b>0</b>   | <b>4781</b>         | <b>969</b>     | <b>0</b>               | <b>5750</b>                  | <b>0</b>                  | <b>4574</b> | <b>7</b>            | <b>1088</b>    | <b>0</b>               | <b>5669</b>                  | <b>16719</b>     |
| <b>Cars</b>            | 26                    | 890        | 4263                | 0              | 0                      | 5179                         | 0                 | 0          | 0                   | 0              | 15                     | 0                            | 0                     | 0          | 4662                | 950            | 0                      | 5612                         | 0                         | 4314        | 7                   | 1045           | 0                      | 5366                         | 16157            |
| <b>Heavy Vehicles</b>  | 0                     | 32         | 89                  | 0              | 0                      | 121                          | 0                 | 0          | 0                   | 0              | 59                     | 0                            | 0                     | 0          | 119                 | 19             | 0                      | 138                          | 0                         | 260         | 0                   | 43             | 0                      | 303                          | 562              |
| <b>Heavy Vehicle %</b> | 0.00%                 | 3.47%      | 2.05%               | 0.00%          | 0.00%                  | 2.28%                        | 0.00%             | 0.00%      | 0.00%               | 0.00%          | 79.73%                 | 0.00%                        | 0.00%                 | 0.00%      | 2.49%               | 1.96%          | 0.00%                  | 2.40%                        | 0.00%                     | 5.68%       | 0.00%               | 3.95%          | 0.00%                  | 5.34%                        | 3.36%            |

**TMC 2660 - CSAH 23 @ 35W South Ramps**  
**Lino Lakes MN**  
**Tuesday, July 28, 2026**  
**AM Peak Hour (00:00 to 10:00)**

| Time                        | Southbound |            |                  |             |                     |                        | Westbound |            |                  |             |                     |                        | Northbound |            |                  |             |                     |                        | Eastbound |            |                  |             |                     |                        | VEHICLE TOTAL |
|-----------------------------|------------|------------|------------------|-------------|---------------------|------------------------|-----------|------------|------------------|-------------|---------------------|------------------------|------------|------------|------------------|-------------|---------------------|------------------------|-----------|------------|------------------|-------------|---------------------|------------------------|---------------|
|                             | U Turns    | Left Turns | Straight Through | Right Turns | Crosswalk Crossings | Vehicle Approach Total | U Turns   | Left Turns | Straight Through | Right Turns | Crosswalk Crossings | Vehicle Approach Total | U Turns    | Left Turns | Straight Through | Right Turns | Crosswalk Crossings | Vehicle Approach Total | U Turns   | Left Turns | Straight Through | Right Turns | Crosswalk Crossings | Vehicle Approach Total |               |
| 7:30 AM                     | 1          | 10         | 78               | 0           | 0                   | 89                     | 0         | 0          | 0                | 0           | 1                   | 0                      | 0          | 0          | 65               | 26          | 0                   | 91                     | 0         | 62         | 0                | 21          | 0                   | 83                     | 263           |
| 7:45 AM                     | 0          | 11         | 78               | 0           | 0                   | 89                     | 0         | 0          | 0                | 0           | 1                   | 0                      | 0          | 0          | 91               | 12          | 0                   | 103                    | 0         | 64         | 0                | 34          | 0                   | 98                     | 290           |
| 8:00 AM                     | 0          | 10         | 75               | 0           | 0                   | 85                     | 0         | 0          | 0                | 0           | 0                   | 0                      | 0          | 0          | 57               | 12          | 0                   | 69                     | 0         | 47         | 0                | 16          | 0                   | 63                     | 217           |
| 8:15 AM                     | 0          | 7          | 80               | 0           | 0                   | 87                     | 0         | 0          | 0                | 0           | 0                   | 0                      | 0          | 0          | 68               | 17          | 0                   | 85                     | 0         | 52         | 0                | 23          | 0                   | 75                     | 247           |
| Peak Hour Total             | 1          | 38         | 311              | 0           | 0                   | 350                    | 0         | 0          | 0                | 0           | 2                   | 0                      | 0          | 0          | 281              | 67          | 0                   | 348                    | 0         | 225        | 0                | 94          | 0                   | 319                    | 1017          |
| Peak Hour Heavy Vehicle     | 0          | 1          | 11               | 0           | 0                   | 12                     | 0         | 0          | 0                | 0           | 2                   | 0                      | 0          | 0          | 16               | 1           | 0                   | 17                     | 0         | 17         | 0                | 5           | 0                   | 22                     | 51            |
| Peak Hour Heavy Vehicle PHF | 0.00%      | 2.63%      | 3.54%            | 0.00%       | 0.00%               | 3.43%                  | 0.00%     | 0.00%      | 0.00%            | 0.00%       | 100.00%             | 0.00%                  | 0.00%      | 0.00%      | 5.69%            | 1.49%       | 0.00%               | 4.89%                  | 0.00%     | 7.56%      | 0.00%            | 5.32%       | 0.00%               | 6.90%                  | 5.01%         |
|                             | 0.250      | 0.864      | 0.972            | 0.000       | 0.000               | 0.983                  | 0.000     | 0.000      | 0.000            | 0.000       | 0.500               | 0.000                  | 0.000      | 0.000      | 0.772            | 0.644       | 0.000               | 0.845                  | 0.000     | 0.879      | 0.000            | 0.691       | 0.000               | 0.814                  | 0.877         |

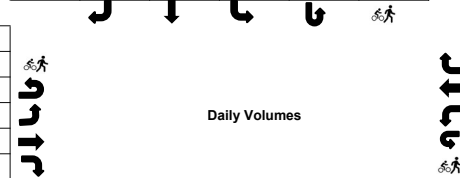
**Mid Peak Hour (10:00 - 14:00)**

| Time                        | Southbound |            |                  |             |                     |                        | Westbound |            |                  |             |                     |                        | Northbound |            |                  |             |                     |                        | Eastbound |            |                  |             |                     |                        | VEHICLE TOTAL |
|-----------------------------|------------|------------|------------------|-------------|---------------------|------------------------|-----------|------------|------------------|-------------|---------------------|------------------------|------------|------------|------------------|-------------|---------------------|------------------------|-----------|------------|------------------|-------------|---------------------|------------------------|---------------|
|                             | U Turns    | Left Turns | Straight Through | Right Turns | Crosswalk Crossings | Vehicle Approach Total | U Turns   | Left Turns | Straight Through | Right Turns | Crosswalk Crossings | Vehicle Approach Total | U Turns    | Left Turns | Straight Through | Right Turns | Crosswalk Crossings | Vehicle Approach Total | U Turns   | Left Turns | Straight Through | Right Turns | Crosswalk Crossings | Vehicle Approach Total |               |
| 11:15 AM                    | 0          | 15         | 89               | 0           | 0                   | 104                    | 0         | 0          | 0                | 0           | 0                   | 0                      | 0          | 0          | 68               | 15          | 0                   | 83                     | 0         | 71         | 0                | 12          | 0                   | 83                     | 270           |
| 11:30 AM                    | 0          | 19         | 61               | 0           | 0                   | 80                     | 0         | 0          | 0                | 0           | 1                   | 0                      | 0          | 0          | 83               | 21          | 0                   | 104                    | 0         | 62         | 1                | 10          | 0                   | 73                     | 257           |
| 11:45 AM                    | 0          | 10         | 69               | 0           | 0                   | 79                     | 0         | 0          | 0                | 0           | 2                   | 0                      | 0          | 0          | 97               | 9           | 0                   | 106                    | 0         | 53         | 0                | 13          | 0                   | 66                     | 251           |
| 12:00 PM                    | 1          | 27         | 78               | 0           | 0                   | 106                    | 0         | 0          | 0                | 0           | 0                   | 0                      | 0          | 0          | 86               | 12          | 0                   | 98                     | 0         | 72         | 0                | 9           | 0                   | 81                     | 285           |
| Peak Hour Total             | 1          | 71         | 297              | 0           | 0                   | 369                    | 0         | 0          | 0                | 0           | 3                   | 0                      | 0          | 0          | 334              | 57          | 0                   | 391                    | 0         | 258        | 1                | 44          | 0                   | 303                    | 1063          |
| Peak Hour Heavy Vehicle     | 0          | 3          | 9                | 0           | 0                   | 12                     | 0         | 0          | 0                | 0           | 3                   | 0                      | 0          | 0          | 6                | 1           | 0                   | 7                      | 0         | 25         | 0                | 3           | 0                   | 28                     | 47            |
| Peak Hour Heavy Vehicle PHF | 0.00%      | 4.23%      | 3.03%            | 0.00%       | 0.00%               | 3.25%                  | 0.00%     | 0.00%      | 0.00%            | 0.00%       | 100.00%             | 0.00%                  | 0.00%      | 0.00%      | 1.80%            | 1.75%       | 0.00%               | 1.79%                  | 0.00%     | 9.69%      | 0.00%            | 6.82%       | 0.00%               | 9.24%                  | 4.42%         |
|                             | 0.250      | 0.657      | 0.834            | 0.000       | 0.000               | 0.870                  | 0.000     | 0.000      | 0.000            | 0.000       | 0.375               | 0.000                  | 0.000      | 0.000      | 0.861            | 0.679       | 0.000               | 0.922                  | 0.000     | 0.896      | 0.250            | 0.846       | 0.000               | 0.913                  | 0.932         |

**PM Peak Hour (14:00 - 24:00)**

| Time                        | Southbound |            |                  |             |                     |                        | Westbound |            |                  |             |                     |                        | Northbound |            |                  |             |                     |                        | Eastbound |            |                  |             |                     |                        | VEHICLE TOTAL |
|-----------------------------|------------|------------|------------------|-------------|---------------------|------------------------|-----------|------------|------------------|-------------|---------------------|------------------------|------------|------------|------------------|-------------|---------------------|------------------------|-----------|------------|------------------|-------------|---------------------|------------------------|---------------|
|                             | U Turns    | Left Turns | Straight Through | Right Turns | Crosswalk Crossings | Vehicle Approach Total | U Turns   | Left Turns | Straight Through | Right Turns | Crosswalk Crossings | Vehicle Approach Total | U Turns    | Left Turns | Straight Through | Right Turns | Crosswalk Crossings | Vehicle Approach Total | U Turns   | Left Turns | Straight Through | Right Turns | Crosswalk Crossings | Vehicle Approach Total |               |
| 3:45 PM                     | 1          | 22         | 107              | 0           | 0                   | 130                    | 0         | 0          | 0                | 0           | 0                   | 0                      | 0          | 0          | 130              | 19          | 0                   | 149                    | 0         | 122        | 0                | 29          | 0                   | 151                    | 430           |
| 4:00 PM                     | 1          | 35         | 96               | 0           | 0                   | 132                    | 0         | 0          | 0                | 0           | 0                   | 0                      | 0          | 0          | 123              | 33          | 0                   | 156                    | 0         | 128        | 0                | 19          | 0                   | 147                    | 435           |
| 4:15 PM                     | 1          | 25         | 79               | 0           | 0                   | 105                    | 0         | 0          | 0                | 0           | 5                   | 0                      | 0          | 0          | 105              | 19          | 0                   | 124                    | 0         | 129        | 0                | 24          | 0                   | 153                    | 382           |
| 4:30 PM                     | 1          | 30         | 94               | 0           | 0                   | 125                    | 0         | 0          | 0                | 0           | 1                   | 0                      | 0          | 0          | 117              | 33          | 0                   | 150                    | 0         | 125        | 0                | 26          | 0                   | 151                    | 426           |
| Peak Hour Total             | 4          | 112        | 376              | 0           | 0                   | 492                    | 0         | 0          | 0                | 0           | 6                   | 0                      | 0          | 0          | 475              | 104         | 0                   | 579                    | 0         | 504        | 0                | 98          | 0                   | 602                    | 1673          |
| Peak Hour Heavy Vehicle     | 0          | 2          | 4                | 0           | 0                   | 6                      | 0         | 0          | 0                | 0           | 6                   | 0                      | 0          | 0          | 8                | 1           | 0                   | 9                      | 0         | 19         | 0                | 3           | 0                   | 22                     | 37            |
| Peak Hour Heavy Vehicle PHF | 0.00%      | 1.79%      | 1.06%            | 0.00%       | 0.00%               | 1.22%                  | 0.00%     | 0.00%      | 0.00%            | 0.00%       | 100.00%             | 0.00%                  | 0.00%      | 0.00%      | 1.68%            | 0.96%       | 0.00%               | 1.55%                  | 0.00%     | 3.77%      | 0.00%            | 3.06%       | 0.00%               | 3.65%                  | 2.21%         |
|                             | 1.000      | 0.800      | 0.879            | 0.000       | 0.000               | 0.932                  | 0.000     | 0.000      | 0.000            | 0.000       | 0.300               | 0.000                  | 0.000      | 0.000      | 0.913            | 0.788       | 0.000               | 0.928                  | 0.000     | 0.977      | 0.000            | 0.845       | 0.000               | 0.984                  | 0.961         |

|                                     |   |      |                                    |    |   |
|-------------------------------------|---|------|------------------------------------|----|---|
| Total Vehicles On Leg               |   |      | 14681                              |    |   |
| Vehicles Entering Intersection 5300 |   |      | Vehicles Exiting Intersection 9381 |    |   |
| Southbound                          |   |      |                                    |    |   |
| Cars                                | 0 | 4263 | 890                                | 26 | 0 |
| Heavy                               | 0 | 89   | 32                                 | 0  | 0 |
| Total                               | 0 | 4352 | 922                                | 26 | 0 |



**Daily Volumes**

|                            |                                     |           |      |       |       |
|----------------------------|-------------------------------------|-----------|------|-------|-------|
| Total Vehicles on Leg 5669 | Vehicles Entering Intersection 5669 | Eastbound | Cars | Heavy | Total |
|                            | Vehicles Exiting Intersection 0     |           | 0    | 0     | 0     |
|                            |                                     |           | 0    | 0     | 0     |
|                            |                                     |           | 4314 | 260   | 4574  |
|                            |                                     |           | 7    | 0     | 7     |
|                            | 1045                                |           | 43   | 1088  |       |

|      |       |       |           |                                    |                            |
|------|-------|-------|-----------|------------------------------------|----------------------------|
| Cars | Heavy | Total | Westbound | Vehicles Entering Intersection 0   | Total Vehicles on Leg 1898 |
| 0    | 0     | 0     |           |                                    |                            |
| 0    | 0     | 0     |           |                                    |                            |
| 0    | 0     | 0     |           | Vehicles Exiting Intersection 1898 |                            |
| 0    | 0     | 0     |           |                                    |                            |
| 15   | 59    | 74    |           |                                    |                            |

|                                     |   |   |                                    |      |     |
|-------------------------------------|---|---|------------------------------------|------|-----|
| Cars                                | 0 | 0 | 0                                  | 4662 | 950 |
| Heavy                               | 0 | 0 | 0                                  | 119  | 19  |
| Total                               | 0 | 0 | 0                                  | 4781 | 969 |
| Northbound                          |   |   |                                    |      |     |
| Vehicles Entering Intersection 5750 |   |   | Vehicles Exiting Intersection 5440 |      |     |
| Total Vehicles On Leg               |   |   | 11190                              |      |     |

TMC 2660 - CSAH 23 @ 35W South Ramps  
Lino Lakes MN  
Tuesday, July 28, 2026

| Time                    | Southbound Heavy<br>CSAH 23 |            |                     |                |                        |                              | Westbound Heavy<br>none |            |                     |                |                        |                              | Northbound Heavy<br>CSAH 23 |            |                     |                |                        |                              | Eastbound Heavy<br>35W off ramp |            |                     |                |                        |                              | VEHICLE<br>TOTAL |
|-------------------------|-----------------------------|------------|---------------------|----------------|------------------------|------------------------------|-------------------------|------------|---------------------|----------------|------------------------|------------------------------|-----------------------------|------------|---------------------|----------------|------------------------|------------------------------|---------------------------------|------------|---------------------|----------------|------------------------|------------------------------|------------------|
|                         | U Turns                     | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total | U Turns                 | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total | U Turns                     | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total | U Turns                         | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>Total |                  |
| 12:00 AM                | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| 12:15 AM                | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| 12:30 AM                | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| 12:45 AM                | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 1          | 0                   | 0              | 0                      | 0                            | 1                |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 1          | 0                   | 0              | 0                      | 0                            | 1                |
| 1:00 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 1              | 0                      | 0                            | 1                |
| 1:15 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| 1:30 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| 1:45 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 1              | 0                      | 0                            | 1                |
| 2:00 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 1                      | 0                            | 0                           | 0          | 1                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| 2:15 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| 2:30 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 1              | 0                      | 0                            | 1                |
| 2:45 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 1                      | 0                            | 0                           | 0          | 1                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 1              | 0                      | 0                            | 1                |
| 3:00 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 1                   | 0              | 0                      | 0                            | 0                               | 2          | 0                   | 0              | 0                      | 0                            | 2                |
| 3:15 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| 3:30 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| 3:45 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 1          | 0                   | 0              | 0                      | 0                            | 1                |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 1                   | 0              | 0                      | 0                            | 0                               | 3          | 0                   | 0              | 0                      | 0                            | 3                |
| 4:00 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| 4:15 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| 4:30 AM                 | 0                           | 0          | 2                   | 0              | 0                      | 2                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 1                   | 0              | 0                      | 0                            | 1                               | 0          | 1                   | 0              | 1                      | 0                            | 2                |
| 4:45 AM                 | 0                           | 1          | 0                   | 0              | 0                      | 1                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 1                   | 0              | 0                      | 0                            | 0                               | 0          | 0                   | 0              | 0                      | 0                            | 0                |
| Hourly 'Heavy Vehicles' | 0                           | 1          | 2                   | 0              | 0                      | 3                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 2                   | 0              | 0                      | 0                            | 0                               | 1          | 0                   | 1              | 0                      | 0                            | 2                |
| 5:00 AM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 1          | 0                   | 0              | 0                      | 0                            | 1                |
| 5:15 AM                 | 0                           | 1          | 0                   | 0              | 0                      | 1                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 1                   | 2              | 0                      | 3                            | 0                               | 0          | 0                   | 1              | 0                      | 0                            | 1                |
| 5:30 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 3                   | 0              | 0                      | 3                            | 0                               | 2          | 0                   | 0              | 0                      | 0                            | 2                |
| 5:45 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 1          | 0                   | 0              | 0                      | 0                            | 1                |
| Hourly 'Heavy Vehicles' | 0                           | 1          | 1                   | 0              | 0                      | 2                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 4                   | 2              | 0                      | 6                            | 0                               | 4          | 0                   | 1              | 0                      | 0                            | 5                |
| 6:00 AM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 1                   | 0              | 0                      | 1                            | 0                               | 3          | 0                   | 0              | 0                      | 0                            | 3                |
| 6:15 AM                 | 0                           | 1          | 3                   | 0              | 0                      | 4                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 3          | 0                   | 0              | 0                      | 0                            | 3                |
| 6:30 AM                 | 0                           | 3          | 2                   | 0              | 0                      | 5                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 2                   | 0              | 0                      | 2                            | 0                               | 2          | 0                   | 0              | 0                      | 0                            | 2                |
| 6:45 AM                 | 0                           | 2          | 2                   | 0              | 0                      | 4                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 1                   | 0              | 0                      | 1                            | 0                               | 2          | 0                   | 0              | 0                      | 0                            | 2                |
| Hourly 'Heavy Vehicles' | 0                           | 6          | 7                   | 0              | 0                      | 13                           | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 4                   | 0              | 0                      | 4                            | 0                               | 10         | 0                   | 0              | 0                      | 0                            | 10               |
| 7:00 AM                 | 0                           | 1          | 3                   | 0              | 0                      | 4                            | 0                       | 0          | 0                   | 0              | 0                      | 0                            | 0                           | 0          | 1                   | 0              | 0                      | 1                            | 0                               | 5          | 0                   | 0              | 0                      | 0                            | 5                |
| 7:15 AM                 | 0                           | 1          | 1                   | 0              | 0                      | 2                            | 0                       | 0          | 0                   | 0              | 1                      | 0                            | 0                           | 0          | 4                   | 0              | 0                      | 4                            | 0                               | 5          | 0                   | 1              | 0                      | 0                            | 6                |
| 7:30 AM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                            | 0                       | 0          | 0                   | 0              | 1                      | 0                            | 0                           | 0          | 0                   | 0              | 0                      | 0                            | 0                               | 4          | 0                   | 0              | 0                      | 0                            | 4                |
| 7:45 AM                 | 0                           | 1          | 4                   | 0              | 0                      | 5                            | 0                       | 0          | 0                   | 0              | 1                      | 0                            | 0                           | 0          | 5                   | 0              | 0                      | 5                            | 0                               | 3          | 0                   | 2              | 0                      | 0                            | 5                |
| Hourly 'Heavy Vehicles' | 0                           | 3          | 9                   | 0              | 0                      | 12                           | 0                       | 0          | 0                   | 0              | 3                      | 0                            | 0                           | 0          | 10                  | 0              | 0                      | 10                           | 0                               | 17         | 0                   | 3              | 0                      | 0                            | 20               |

TMC 2660 - CSAH 23 @ 35W South Ramps  
Lino Lakes MN  
Tuesday, July 28, 2026

|                         | Southbound Heavy<br>CSAH 23 |            |                     |                |                        |                                            | Westbound Heavy<br>none |            |                     |                |                        |                                            | Northbound Heavy<br>CSAH 23 |            |                     |                |                        |                                            | Eastbound Heavy<br>35W off ramp |            |                     |                |                        |                                            | VEHICLE<br>'Heavy<br>Vehicles' |    |
|-------------------------|-----------------------------|------------|---------------------|----------------|------------------------|--------------------------------------------|-------------------------|------------|---------------------|----------------|------------------------|--------------------------------------------|-----------------------------|------------|---------------------|----------------|------------------------|--------------------------------------------|---------------------------------|------------|---------------------|----------------|------------------------|--------------------------------------------|--------------------------------|----|
| Time                    | U Turns                     | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>'Heavy<br>Vehicles' | U Turns                 | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>'Heavy<br>Vehicles' | U Turns                     | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>'Heavy<br>Vehicles' | U Turns                         | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>'Heavy<br>Vehicles' |                                |    |
| 8:00 AM                 | 0                           | 0          | 3                   | 0              | 0                      | 3                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 5                   | 1              | 0                      | 6                                          | 0                               | 5          | 0                   | 1              | 0                      | 0                                          | 6                              | 15 |
| 8:15 AM                 | 0                           | 0          | 3                   | 0              | 0                      | 3                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 6                   | 0              | 0                      | 6                                          | 0                               | 5          | 0                   | 2              | 0                      | 0                                          | 7                              | 16 |
| 8:30 AM                 | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 3                   | 1              | 0                      | 4                                          | 0                               | 6          | 0                   | 2              | 0                      | 0                                          | 8                              | 14 |
| 8:45 AM                 | 0                           | 1          | 1                   | 0              | 0                      | 2                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                               | 8          | 0                   | 0              | 0                      | 0                                          | 8                              | 11 |
| Hourly 'Heavy Vehicles' | 0                           | 1          | 9                   | 0              | 0                      | 10                                         | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 15                  | 2              | 0                      | 17                                         | 0                               | 24         | 0                   | 5              | 0                      | 0                                          | 29                             | 56 |
| 9:00 AM                 | 0                           | 0          | 3                   | 0              | 0                      | 3                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 2                   | 1              | 0                      | 3                                          | 0                               | 6          | 0                   | 0              | 0                      | 0                                          | 6                              | 12 |
| 9:15 AM                 | 0                           | 1          | 6                   | 0              | 0                      | 7                                          | 0                       | 0          | 0                   | 0              | 4                      | 0                                          | 0                           | 0          | 1                   | 1              | 0                      | 2                                          | 0                               | 7          | 0                   | 0              | 0                      | 0                                          | 7                              | 16 |
| 9:30 AM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                               | 3          | 0                   | 0              | 0                      | 0                                          | 3                              | 6  |
| 9:45 AM                 | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                       | 0          | 0                   | 0              | 2                      | 0                                          | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                               | 5          | 0                   | 1              | 0                      | 0                                          | 6                              | 9  |
| Hourly 'Heavy Vehicles' | 0                           | 1          | 12                  | 0              | 0                      | 13                                         | 0                       | 0          | 0                   | 0              | 6                      | 0                                          | 0                           | 0          | 6                   | 2              | 0                      | 8                                          | 0                               | 21         | 0                   | 1              | 0                      | 0                                          | 22                             | 43 |
| 10:00 AM                | 0                           | 3          | 3                   | 0              | 0                      | 6                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                               | 9          | 0                   | 0              | 0                      | 0                                          | 9                              | 16 |
| 10:15 AM                | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                               | 3          | 0                   | 0              | 0                      | 0                                          | 3                              | 5  |
| 10:30 AM                | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                       | 0          | 0                   | 0              | 2                      | 0                                          | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                               | 7          | 0                   | 2              | 0                      | 0                                          | 9                              | 13 |
| 10:45 AM                | 0                           | 1          | 0                   | 0              | 0                      | 1                                          | 0                       | 0          | 0                   | 0              | 2                      | 0                                          | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                               | 3          | 0                   | 1              | 0                      | 0                                          | 4                              | 7  |
| Hourly 'Heavy Vehicles' | 0                           | 4          | 5                   | 0              | 0                      | 9                                          | 0                       | 0          | 0                   | 0              | 5                      | 0                                          | 0                           | 0          | 7                   | 0              | 0                      | 7                                          | 0                               | 22         | 0                   | 3              | 0                      | 0                                          | 25                             | 41 |
| 11:00 AM                | 0                           | 1          | 1                   | 0              | 0                      | 2                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 4                   | 1              | 0                      | 5                                          | 0                               | 10         | 0                   | 0              | 0                      | 0                                          | 10                             | 17 |
| 11:15 AM                | 0                           | 0          | 3                   | 0              | 0                      | 3                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 1              | 0                      | 1                                          | 0                               | 4          | 0                   | 0              | 0                      | 0                                          | 4                              | 8  |
| 11:30 AM                | 0                           | 0          | 3                   | 0              | 0                      | 3                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 3                   | 0              | 0                      | 3                                          | 0                               | 3          | 0                   | 1              | 0                      | 0                                          | 4                              | 10 |
| 11:45 AM                | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                       | 0          | 0                   | 0              | 2                      | 0                                          | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                               | 8          | 0                   | 2              | 0                      | 0                                          | 10                             | 13 |
| Hourly 'Heavy Vehicles' | 0                           | 1          | 8                   | 0              | 0                      | 9                                          | 0                       | 0          | 0                   | 0              | 3                      | 0                                          | 0                           | 0          | 9                   | 2              | 0                      | 11                                         | 0                               | 25         | 0                   | 3              | 0                      | 0                                          | 28                             | 48 |
| 12:00 PM                | 0                           | 3          | 2                   | 0              | 0                      | 5                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                               | 10         | 0                   | 0              | 0                      | 0                                          | 10                             | 16 |
| 12:15 PM                | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                       | 0          | 0                   | 0              | 2                      | 0                                          | 0                           | 0          | 1                   | 1              | 0                      | 2                                          | 0                               | 7          | 0                   | 0              | 0                      | 0                                          | 7                              | 10 |
| 12:30 PM                | 0                           | 2          | 0                   | 0              | 0                      | 2                                          | 0                       | 0          | 0                   | 0              | 3                      | 0                                          | 0                           | 0          | 1                   | 1              | 0                      | 2                                          | 0                               | 5          | 0                   | 0              | 0                      | 0                                          | 5                              | 9  |
| 12:45 PM                | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                       | 0          | 0                   | 0              | 2                      | 0                                          | 0                           | 0          | 3                   | 0              | 0                      | 3                                          | 0                               | 4          | 0                   | 1              | 0                      | 0                                          | 5                              | 9  |
| Hourly 'Heavy Vehicles' | 0                           | 5          | 4                   | 0              | 0                      | 9                                          | 0                       | 0          | 0                   | 0              | 7                      | 0                                          | 0                           | 0          | 6                   | 2              | 0                      | 8                                          | 0                               | 26         | 0                   | 1              | 0                      | 0                                          | 27                             | 44 |
| 1:00 PM                 | 0                           | 1          | 3                   | 0              | 0                      | 4                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                               | 6          | 0                   | 0              | 0                      | 0                                          | 6                              | 12 |
| 1:15 PM                 | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                               | 5          | 0                   | 3              | 0                      | 0                                          | 8                              | 12 |
| 1:30 PM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 4                   | 0              | 0                      | 4                                          | 0                               | 11         | 0                   | 0              | 0                      | 0                                          | 11                             | 16 |
| 1:45 PM                 | 0                           | 2          | 1                   | 0              | 0                      | 3                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 4                   | 1              | 0                      | 5                                          | 0                               | 2          | 0                   | 2              | 0                      | 0                                          | 4                              | 12 |
| Hourly 'Heavy Vehicles' | 0                           | 3          | 7                   | 0              | 0                      | 10                                         | 0                       | 0          | 0                   | 0              | 2                      | 0                                          | 0                           | 0          | 12                  | 1              | 0                      | 13                                         | 0                               | 24         | 0                   | 5              | 0                      | 0                                          | 29                             | 52 |
| 2:00 PM                 | 0                           | 2          | 1                   | 0              | 0                      | 3                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 4                   | 0              | 0                      | 4                                          | 0                               | 4          | 0                   | 2              | 0                      | 0                                          | 6                              | 13 |
| 2:15 PM                 | 0                           | 1          | 1                   | 0              | 0                      | 2                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 5                   | 0              | 0                      | 5                                          | 0                               | 2          | 0                   | 1              | 0                      | 0                                          | 3                              | 10 |
| 2:30 PM                 | 0                           | 1          | 1                   | 0              | 0                      | 2                                          | 0                       | 0          | 0                   | 0              | 2                      | 0                                          | 0                           | 0          | 5                   | 0              | 0                      | 5                                          | 0                               | 2          | 0                   | 1              | 0                      | 0                                          | 3                              | 10 |
| 2:45 PM                 | 0                           | 0          | 4                   | 0              | 0                      | 4                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                               | 7          | 0                   | 0              | 0                      | 0                                          | 7                              | 13 |
| Hourly 'Heavy Vehicles' | 0                           | 4          | 7                   | 0              | 0                      | 11                                         | 0                       | 0          | 0                   | 0              | 4                      | 0                                          | 0                           | 0          | 16                  | 0              | 0                      | 16                                         | 0                               | 15         | 0                   | 4              | 0                      | 0                                          | 19                             | 46 |
| 3:00 PM                 | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 3                   | 0              | 0                      | 3                                          | 0                               | 2          | 0                   | 1              | 0                      | 0                                          | 3                              | 8  |
| 3:15 PM                 | 0                           | 0          | 3                   | 0              | 0                      | 3                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 2                   | 1              | 0                      | 3                                          | 0                               | 8          | 0                   | 0              | 0                      | 0                                          | 8                              | 14 |
| 3:30 PM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                               | 10         | 0                   | 2              | 0                      | 0                                          | 12                             | 14 |
| 3:45 PM                 | 0                           | 1          | 1                   | 0              | 0                      | 2                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 3                   | 1              | 0                      | 4                                          | 0                               | 4          | 0                   | 1              | 0                      | 0                                          | 5                              | 11 |
| Hourly 'Heavy Vehicles' | 0                           | 1          | 7                   | 0              | 0                      | 8                                          | 0                       | 0          | 0                   | 0              | 2                      | 0                                          | 0                           | 0          | 9                   | 2              | 0                      | 11                                         | 0                               | 24         | 0                   | 4              | 0                      | 0                                          | 28                             | 47 |

TMC 2660 - CSAH 23 @ 35W South Ramps  
Lino Lakes MN  
Tuesday, July 28, 2026

|                         | Southbound Heavy<br>CSAH 23 |            |                     |                |                        |                                            | Westbound Heavy<br>none |            |                     |                |                        |                                            | Northbound Heavy<br>CSAH 23 |            |                     |                |                        |                                            | Eastbound Heavy<br>35W off ramp |            |                     |                |                        |                                            | VEHICLE<br>'Heavy<br>Vehicles' |    |
|-------------------------|-----------------------------|------------|---------------------|----------------|------------------------|--------------------------------------------|-------------------------|------------|---------------------|----------------|------------------------|--------------------------------------------|-----------------------------|------------|---------------------|----------------|------------------------|--------------------------------------------|---------------------------------|------------|---------------------|----------------|------------------------|--------------------------------------------|--------------------------------|----|
| Time                    | U Turns                     | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>'Heavy<br>Vehicles' | U Turns                 | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>'Heavy<br>Vehicles' | U Turns                     | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>'Heavy<br>Vehicles' | U Turns                         | Left Turns | Straight<br>Through | Right<br>Turns | Crosswalk<br>Crossings | Vehicle<br>Approach<br>'Heavy<br>Vehicles' |                                |    |
| 4:00 PM                 | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 3                   | 0              | 0                      | 3                                          | 0                               | 8          | 0                   | 1              | 0                      | 0                                          | 9                              | 14 |
| 4:15 PM                 | 0                           | 1          | 1                   | 0              | 0                      | 2                                          | 0                       | 0          | 0                   | 0              | 5                      | 0                                          | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                               | 2          | 0                   | 1              | 0                      | 0                                          | 3                              | 7  |
| 4:30 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 5          | 0                   | 0              | 0                      | 0                                          | 5                              | 5  |
| 4:45 PM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                       | 0          | 0                   | 0              | 2                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 3          | 0                   | 0              | 0                      | 0                                          | 3                              | 4  |
| Hourly 'Heavy Vehicles' | 0                           | 1          | 4                   | 0              | 0                      | 5                                          | 0                       | 0          | 0                   | 0              | 8                      | 0                                          | 0                           | 0          | 5                   | 0              | 0                      | 5                                          | 0                               | 18         | 0                   | 2              | 0                      | 0                                          | 20                             | 30 |
| 5:00 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 3                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 3          | 0                   | 1              | 0                      | 0                                          | 4                              | 4  |
| 5:15 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 2          | 0                   | 0              | 0                      | 0                                          | 2                              | 2  |
| 5:30 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                               | 4          | 0                   | 1              | 0                      | 0                                          | 5                              | 6  |
| 5:45 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 3                   | 0              | 0                      | 3                                          | 0                               | 2          | 0                   | 2              | 0                      | 0                                          | 4                              | 7  |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 4                      | 0                                          | 0                           | 0          | 4                   | 0              | 0                      | 4                                          | 0                               | 11         | 0                   | 4              | 0                      | 0                                          | 15                             | 19 |
| 6:00 PM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 1                   | 2              | 0                      | 3                                          | 0                               | 2          | 0                   | 0              | 0                      | 0                                          | 2                              | 6  |
| 6:15 PM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 1          | 0                   | 0              | 0                      | 0                                          | 1                              | 2  |
| 6:30 PM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 1          | 0                   | 0              | 0                      | 0                                          | 1                              | 2  |
| 6:45 PM                 | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                       | 0          | 0                   | 0              | 2                      | 0                                          | 0                           | 0          | 2                   | 0              | 0                      | 2                                          | 0                               | 1          | 0                   | 0              | 0                      | 0                                          | 1                              | 5  |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 5                   | 0              | 0                      | 5                                          | 0                       | 0          | 0                   | 0              | 3                      | 0                                          | 0                           | 0          | 3                   | 2              | 0                      | 5                                          | 0                               | 5          | 0                   | 0              | 0                      | 0                                          | 5                              | 15 |
| 7:00 PM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 2              | 0                      | 2                                          | 0                               | 0          | 0                   | 1              | 0                      | 0                                          | 1                              | 4  |
| 7:15 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 2                   | 1              | 0                      | 3                                          | 0                               | 1          | 0                   | 1              | 0                      | 0                                          | 2                              | 5  |
| 7:30 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 1          | 0                   | 0              | 0                      | 0                                          | 1                              | 1  |
| 7:45 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 0          | 0                   | 0              | 0                      | 0                                          | 0                              | 0  |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 2                   | 3              | 0                      | 5                                          | 0                               | 2          | 0                   | 2              | 0                      | 0                                          | 4                              | 10 |
| 8:00 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 2                      | 0                                          | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                               | 1          | 0                   | 0              | 0                      | 0                                          | 1                              | 2  |
| 8:15 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 0          | 0                   | 0              | 0                      | 0                                          | 0                              | 0  |
| 8:30 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 2                      | 0                                          | 0                           | 0          | 1                   | 1              | 0                      | 2                                          | 0                               | 2          | 0                   | 1              | 0                      | 0                                          | 3                              | 5  |
| 8:45 PM                 | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 0          | 0                   | 0              | 0                      | 0                                          | 0                              | 1  |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                       | 0          | 0                   | 0              | 5                      | 0                                          | 0                           | 0          | 2                   | 1              | 0                      | 3                                          | 0                               | 3          | 0                   | 1              | 0                      | 0                                          | 4                              | 8  |
| 9:00 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 0          | 0                   | 0              | 0                      | 0                                          | 0                              | 0  |
| 9:15 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 0          | 0                   | 0              | 0                      | 0                                          | 0                              | 0  |
| 9:30 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 4                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 1          | 0                   | 1              | 0                      | 0                                          | 2                              | 2  |
| 9:45 PM                 | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 0          | 0                   | 0              | 0                      | 0                                          | 0                              | 0  |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 4                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 1          | 0                   | 1              | 0                      | 0                                          | 2                              | 2  |
| 10:00 PM                | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 0          | 0                   | 0              | 0                      | 0                                          | 0                              | 0  |
| 10:15 PM                | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                               | 0          | 0                   | 0              | 0                      | 0                                          | 0                              | 1  |
| 10:30 PM                | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 0          | 0                   | 0              | 0                      | 0                                          | 0                              | 0  |
| 10:45 PM                | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 0          | 0                   | 0              | 0                      | 0                                          | 0                              | 0  |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 1                      | 0                                          | 0                           | 0          | 1                   | 0              | 0                      | 1                                          | 0                               | 0          | 0                   | 0              | 0                      | 0                                          | 0                              | 1  |
| 11:00 PM                | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 0          | 0                   | 0              | 0                      | 0                                          | 0                              | 0  |
| 11:15 PM                | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 2          | 0                   | 0              | 0                      | 0                                          | 2                              | 2  |
| 11:30 PM                | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 1          | 0                   | 0              | 0                      | 0                                          | 1                              | 1  |
| 11:45 PM                | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 0          | 0                   | 0              | 0                      | 0                                          | 0                              | 0  |
| Hourly 'Heavy Vehicles' | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                       | 0          | 0                   | 0              | 0                      | 0                                          | 0                           | 0          | 0                   | 0              | 0                      | 0                                          | 0                               | 3          | 0                   | 0              | 0                      | 0                                          | 3                              | 3  |
| DAILY 'Heavy Vehicles'  | 0                           | 32         | 89                  | 0              | 0                      | 121                                        | 0                       | 0          | 0                   | 0              | 59                     | 0                                          | 0                           | 0          | 119                 | 19             | 0                      | 138                                        | 0                               | 260        | 0                   | 43             | 0                      | 303                                        | 562                            |    |

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2660

Study Date : 08/13/2026

## Signal Warrants - Summary

### Major Street Approaches

Northbound: CSAH 23

Number of Lanes : 2+

Total Approach Volume: 5,750

Southbound: CSAH 23

Number of Lanes :2+

Total Approach Volume: 5,300

### Minor Street Approaches

Eastbound: 35W off ramp

Number of Lanes :2+

Total Approach Volume: 4,581

### Warrant Summary (Rural Values Apply)

Warrant 1 - Eight Hour Vehicular Volumes.....Satisfied

Warrant 1A - Minimum Vehicular Volume.....Satisfied

Required volumes reached for 16 hours, 8 are needed

Warrant 1B - Interruption of Continuous Traffic.....Satisfied

Required volumes reached for 14 hours, 8 are needed

Warrant 1C - Combination of Warrants.....Satisfied

Required 1A volumes reached for 16 hours, 8 are needed

Required 1B volumes reached for 15 hours, 8 are needed

Warrant 2 - Four Hour Volumes.....Satisfied

Number of hours (12) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

Warrant 3A - Peak Hour Delay.....Not Satisfied

Approach volumes on minor street don't exceed minimums for any one hour period. Delay data not evaluated.

Warrant 3B - Peak Hour Volumes.....Satisfied

Volumes exceed minimums for at least one hour period.

Warrant 4 - Pedestrian Volumes.....Not Evaluated

Warrant 5 - School Crossing.....Not Evaluated

Warrant 6 - Coordinated Signal System.....Not Evaluated

Warrant 7 - Crash Experience.....Not Evaluated

Warrant 8 - Roadway Network.....Not Evaluated

Warrant 9 - Intersection Near a Grade Crossing.....Not Evaluated

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2660

Study Date : 08/13/2026

## Warrant 1A - Minimum Volumes

### Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

### Summary

16 one hour periods meet minimums.  
Warrant IS met.

### Site Data Required

Rural Settings Apply = **True**  
Number of Major Lanes = **2 or more**  
Number of Minor Lanes = **2 or more**

### Volume Requirements

Rural Factor of 70 % applied  
Veh/Hr Major = **252**

Veh/Hr Minor = **84**

| Major Road    |          |   |          |   |       | Minor Road   |          |      |
|---------------|----------|---|----------|---|-------|--------------|----------|------|
| CSAH 23       |          |   |          |   |       | 35W off ramp |          |      |
| Time          | Major NB | + | Major SB | = | Total | Minor EB     | Minor WB | Met? |
| 15:45 - 16:45 | 579      | + | 492      | = | 1071  | 504          | 0        | Yes  |
| 16:45 - 17:45 | 544      | + | 437      | = | 981   | 446          | 0        | Yes  |
| 14:45 - 15:45 | 475      | + | 460      | = | 935   | 435          | 0        | Yes  |
| 11:45 - 12:45 | 394      | + | 344      | = | 738   | 248          | 0        | Yes  |
| 13:45 - 14:45 | 360      | + | 368      | = | 728   | 347          | 0        | Yes  |
| 10:45 - 11:45 | 360      | + | 342      | = | 702   | 261          | 0        | Yes  |
| 17:45 - 18:45 | 376      | + | 318      | = | 694   | 306          | 0        | Yes  |
| 07:45 - 08:45 | 340      | + | 343      | = | 683   | 200          | 0        | Yes  |
| 08:45 - 09:45 | 375      | + | 304      | = | 679   | 189          | 0        | Yes  |
| 12:45 - 13:45 | 359      | + | 317      | = | 676   | 262          | 0        | Yes  |
| 09:45 - 10:45 | 301      | + | 280      | = | 581   | 200          | 0        | Yes  |
| 06:45 - 07:45 | 281      | + | 291      | = | 572   | 233          | 0        | Yes  |
| 18:45 - 19:45 | 269      | + | 278      | = | 547   | 189          | 0        | Yes  |
| 19:45 - 20:45 | 185      | + | 182      | = | 367   | 171          | 0        | Yes  |
| 05:45 - 06:45 | 155      | + | 143      | = | 298   | 153          | 0        | Yes  |
| 20:45 - 21:45 | 130      | + | 129      | = | 259   | 150          | 0        | Yes  |
| 05:30 - 06:30 | 115      | + | 118      | = | 233   | 135          | 0        | No   |
| 05:15 - 06:15 | 107      | + | 88       | = | 195   | 106          | 0        | No   |
| 05:00 - 06:00 | 96       | + | 81       | = | 177   | 84           | 0        | No   |
| 04:45 - 05:45 | 77       | + | 69       | = | 146   | 61           | 0        | No   |
| 22:00 - 23:00 | 59       | + | 81       | = | 140   | 81           | 0        | No   |
| 21:45 - 22:45 | 51       | + | 87       | = | 138   | 90           | 0        | No   |
| 04:30 - 05:30 | 57       | + | 64       | = | 121   | 53           | 0        | No   |
| 22:15 - 23:15 | 57       | + | 60       | = | 117   | 69           | 0        | No   |
| 22:30 - 23:30 | 46       |   | 50       |   | 96    | 46           | 0        | No   |

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2660

Study Date : 08/13/2026

## Warrant 1B - Interruption of Continuous Traffic

### Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

### Summary

14 one hour periods meet minimums.  
Warrant IS met.

### Site Data Required

Rural Settings Apply = **True**  
Number of Major Lanes = **2 or more**  
Number of Minor Lanes = **2 or more**

### Volume Requirements

Rural Factor of 70 % applied  
Veh/Hr Major = **378**  
  
Veh/Hr Minor = **42**

| Major Road    |          |   |          |   |       | Minor Road   |          |      |  |
|---------------|----------|---|----------|---|-------|--------------|----------|------|--|
| CSAH 23       |          |   |          |   |       | 35W off ramp |          |      |  |
| Time          | Major NB | + | Major SB | = | Total | Minor EB     | Minor WB | Met? |  |
| 15:15 - 16:15 | 546      | + | 498      | = | 1044  | 493          | 0        | Yes  |  |
| 16:15 - 17:15 | 555      | + | 473      | = | 1028  | 482          | 0        | Yes  |  |
| 14:15 - 15:15 | 419      | + | 419      | = | 838   | 385          | 0        | Yes  |  |
| 17:15 - 18:15 | 465      | + | 346      | = | 811   | 390          | 0        | Yes  |  |
| 11:15 - 12:15 | 391      | + | 369      | = | 760   | 259          | 0        | Yes  |  |
| 08:15 - 09:15 | 389      | + | 326      | = | 715   | 181          | 0        | Yes  |  |
| 13:15 - 14:15 | 354      | + | 344      | = | 698   | 300          | 0        | Yes  |  |
| 12:15 - 13:15 | 370      | + | 305      | = | 675   | 239          | 0        | Yes  |  |
| 07:15 - 08:15 | 330      | + | 345      | = | 675   | 231          | 0        | Yes  |  |
| 18:15 - 19:15 | 327      | + | 324      | = | 651   | 230          | 0        | Yes  |  |
| 10:15 - 11:15 | 315      | + | 299      | = | 614   | 226          | 0        | Yes  |  |
| 09:15 - 10:15 | 313      | + | 286      | = | 599   | 198          | 0        | Yes  |  |
| 06:15 - 07:15 | 223      | + | 210      | = | 433   | 198          | 0        | Yes  |  |
| 19:15 - 20:15 | 217      | + | 208      | = | 425   | 176          | 0        | Yes  |  |
| 06:00 - 07:00 | 190      | + | 178      | = | 368   | 170          | 0        | No   |  |
| 20:15 - 21:15 | 157      | + | 172      | = | 329   | 170          | 0        | No   |  |
| 05:45 - 06:45 | 155      | + | 143      | = | 298   | 153          | 0        | No   |  |
| 20:30 - 21:30 | 142      | + | 146      | = | 288   | 159          | 0        | No   |  |
| 20:45 - 21:45 | 130      | + | 129      | = | 259   | 150          | 0        | No   |  |
| 05:30 - 06:30 | 115      | + | 118      | = | 233   | 135          | 0        | No   |  |
| 21:00 - 22:00 | 105      | + | 110      | = | 215   | 121          | 0        | No   |  |
| 05:15 - 06:15 | 107      | + | 88       | = | 195   | 106          | 0        | No   |  |
| 05:00 - 06:00 | 96       | + | 81       | = | 177   | 84           | 0        | No   |  |
| 21:15 - 22:15 | 79       | + | 98       | = | 177   | 111          | 0        | No   |  |
| 21:30 - 22:30 | 72       |   | 89       |   | 161   | 110          | 0        | No   |  |

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2660

Study Date : 08/13/2026

## Warrant 1C Combination of Warrants

### Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

### Summary

16 hours meet 1A minimums.  
15 hours meet 1B minimums.  
Warrant IS met.

### Site Data Required

Rural Settings Apply = **True**  
Number of Major Lanes = **2 or more**  
Number of Minor Lanes = **2 or more**

### Volume Requirements

Rural Factor of 70% applied  
Warrant 1A 1B  
Veh/Hr Major = **202 302**

Veh/Hr Minor = **67 34**

| Major Road    |          |   |          |   |       | Minor Road   |          |  |          |  |        |
|---------------|----------|---|----------|---|-------|--------------|----------|--|----------|--|--------|
| CSAH 23       |          |   |          |   |       | 35W off ramp |          |  |          |  |        |
| Time          | Major NB | + | Major SB | = | Total |              | Minor EB |  | Minor WB |  | Met1A? |
| 15:30 - 16:30 | 567      | + | 485      | = | 1052  |              | 492      |  | 0        |  | Yes    |
| 16:30 - 17:30 | 560      | + | 474      | = | 1034  |              | 477      |  | 0        |  | Yes    |
| 14:30 - 15:30 | 447      | + | 447      | = | 894   |              | 428      |  | 0        |  | Yes    |
| 17:30 - 18:30 | 431      | + | 323      | = | 754   |              | 343      |  | 0        |  | Yes    |
| 11:30 - 12:30 | 407      | + | 341      | = | 748   |              | 255      |  | 0        |  | Yes    |
| 08:30 - 09:30 | 385      | + | 325      | = | 710   |              | 179      |  | 0        |  | Yes    |
| 07:30 - 08:30 | 348      | + | 350      | = | 698   |              | 225      |  | 0        |  | Yes    |
| 12:30 - 13:30 | 363      | + | 320      | = | 683   |              | 239      |  | 0        |  | Yes    |
| 13:30 - 14:30 | 337      | + | 343      | = | 680   |              | 320      |  | 0        |  | Yes    |
| 10:30 - 11:30 | 326      | + | 333      | = | 659   |              | 252      |  | 0        |  | Yes    |
| 18:30 - 19:30 | 286      | + | 299      | = | 585   |              | 201      |  | 0        |  | Yes    |
| 09:30 - 10:30 | 304      |   | 270      |   | 574   |              | 193      |  | 0        |  | Yes    |

| Time          | Major NB | + | Major SB | = | Total | Minor EB |  | Minor WB |  | Met1B? |
|---------------|----------|---|----------|---|-------|----------|--|----------|--|--------|
| 16:00 - 17:00 | 554      | + | 495      | = | 1049  | 486      |  | 0        |  | Yes    |
| 15:00 - 16:00 | 511      | + | 486      | = | 997   | 448      |  | 0        |  | Yes    |
| 17:00 - 18:00 | 519      | + | 379      | = | 898   | 418      |  | 0        |  | Yes    |
| 14:00 - 15:00 | 403      | + | 393      | = | 796   | 382      |  | 0        |  | Yes    |
| 11:00 - 12:00 | 383      | + | 346      | = | 729   | 251      |  | 0        |  | Yes    |
| 12:00 - 13:00 | 389      | + | 333      | = | 722   | 253      |  | 0        |  | Yes    |
| 18:00 - 19:00 | 353      | + | 325      | = | 678   | 284      |  | 0        |  | Yes    |
| 08:00 - 09:00 | 341      | + | 337      | = | 678   | 182      |  | 0        |  | Yes    |
| 13:00 - 14:00 | 328      | + | 328      | = | 656   | 278      |  | 0        |  | Yes    |
| 09:00 - 10:00 | 358      | + | 295      | = | 653   | 191      |  | 0        |  | Yes    |
| 07:00 - 08:00 | 322      | + | 319      | = | 641   | 245      |  | 0        |  | Yes    |
| 10:00 - 11:00 | 297      |   | 281      |   | 578   | 215      |  | 0        |  | Yes    |

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2660

Study Date : 08/13/2026

## Warrant 2 - Four Hour Volumes

### Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

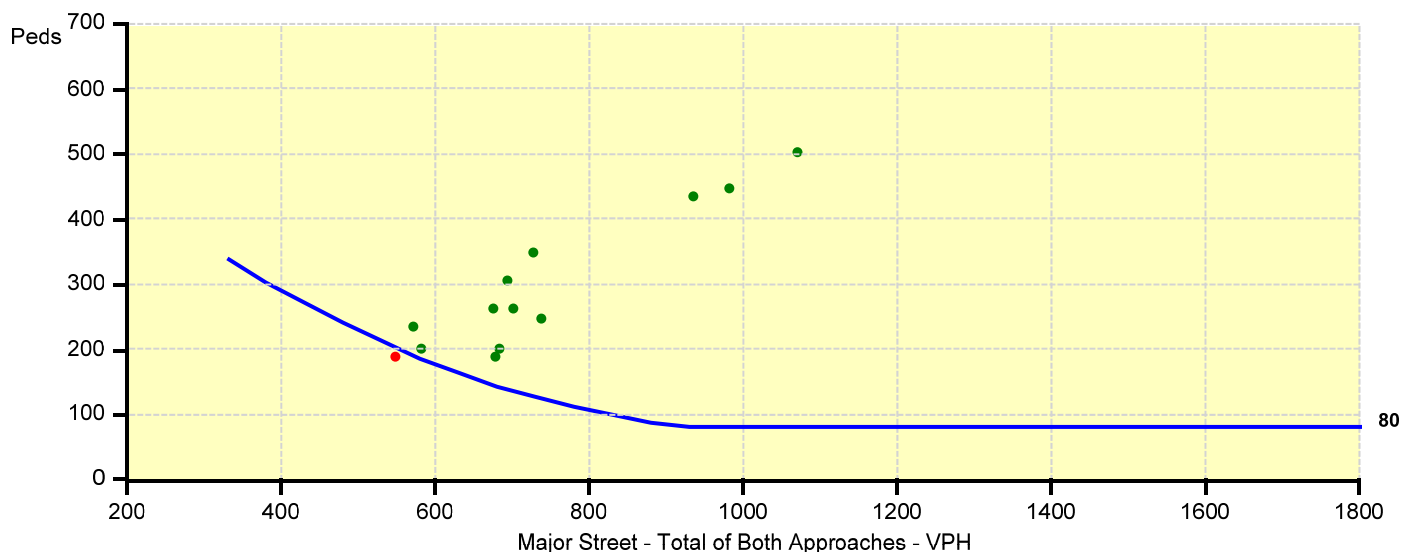
### Summary

12 one hour periods meet minimums.  
Warrant IS met.

### Site Data Required

Rural Settings Apply = **True**  
Number of Major Lanes = **2 or more**  
Number of Minor Lanes = **2 or more**

| Major Road<br>CSAH 23 |          |   |          |   |       | Minor Road<br>35W off ramp |          |      |
|-----------------------|----------|---|----------|---|-------|----------------------------|----------|------|
| Time                  | Major NB | + | Major SB | = | Total | Minor EB                   | Minor WB | Met? |
| 15:45 - 16:45         | 579      | + | 492      | = | 1071  | 504                        | 0        | Yes  |
| 16:45 - 17:45         | 544      | + | 437      | = | 981   | 446                        | 0        | Yes  |
| 14:45 - 15:45         | 475      | + | 460      | = | 935   | 435                        | 0        | Yes  |
| 11:45 - 12:45         | 394      | + | 344      | = | 738   | 248                        | 0        | Yes  |
| 13:45 - 14:45         | 360      | + | 368      | = | 728   | 347                        | 0        | Yes  |
| 10:45 - 11:45         | 360      | + | 342      | = | 702   | 261                        | 0        | Yes  |
| 17:45 - 18:45         | 376      | + | 318      | = | 694   | 306                        | 0        | Yes  |
| 07:45 - 08:45         | 340      | + | 343      | = | 683   | 200                        | 0        | Yes  |
| 08:45 - 09:45         | 375      | + | 304      | = | 679   | 189                        | 0        | Yes  |
| 12:45 - 13:45         | 359      | + | 317      | = | 676   | 262                        | 0        | Yes  |
| 09:45 - 10:45         | 301      | + | 280      | = | 581   | 200                        | 0        | Yes  |
| 06:45 - 07:45         | 281      | + | 291      | = | 572   | 233                        | 0        | Yes  |



# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2660

Study Date : 08/13/2026

## Warrant 3B - Peak Hour Volumes

### Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

### Summary

27 one hour periods meet minimums.  
Warrant IS met.

### Site Data Required

Rural Settings Apply = **True**  
Number of Major Lanes = **2 or more**  
Number of Minor Lanes = **2 or more**

| Major Road<br>CSAH 23 |          |   |          |   |       | Minor Road<br>35W off ramp |          |      |
|-----------------------|----------|---|----------|---|-------|----------------------------|----------|------|
| Time                  | Major NB | + | Major SB | = | Total | Minor EB                   | Minor WB | Met? |
| 15:45 - 16:45         | 579      | + | 492      | = | 1071  | 504                        | 0        | Yes  |
| 15:30 - 16:30         | 567      | + | 485      | = | 1052  | 492                        | 0        | Yes  |
| 16:00 - 17:00         | 554      | + | 495      | = | 1049  | 486                        | 0        | Yes  |
| 15:15 - 16:15         | 546      | + | 498      | = | 1044  | 493                        | 0        | Yes  |
| 16:30 - 17:30         | 560      | + | 474      | = | 1034  | 477                        | 0        | Yes  |
| 16:15 - 17:15         | 555      | + | 473      | = | 1028  | 482                        | 0        | Yes  |
| 15:00 - 16:00         | 511      | + | 486      | = | 997   | 448                        | 0        | Yes  |
| 16:45 - 17:45         | 544      | + | 437      | = | 981   | 446                        | 0        | Yes  |
| 14:45 - 15:45         | 475      | + | 460      | = | 935   | 435                        | 0        | Yes  |
| 17:00 - 18:00         | 519      | + | 379      | = | 898   | 418                        | 0        | Yes  |
| 14:30 - 15:30         | 447      | + | 447      | = | 894   | 428                        | 0        | Yes  |
| 14:15 - 15:15         | 419      |   | 419      |   | 838   | 385                        | 0        | Yes  |

